MultipleRegression.R

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2019-11-07

##Multivariate Project  
##TELECOM-CHURN-ANALYSIS  
##Author : Priyanshi Bajpai

##Importing Libraries

library(ggplot2)  
library(dplyr)

## Warning: package 'dplyr' was built under R version 3.4.4

##   
## 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

library (stringr)

## Warning: package 'stringr' was built under R version 3.4.4

library(data.table)

## Warning: package 'data.table' was built under R version 3.4.4

##   
## Attaching package: 'data.table'

## The following objects are masked from 'package:dplyr':  
##   
## between, first, last

library(grid)  
library(gridExtra)

##   
## Attaching package: 'gridExtra'

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

library(corrplot)

## Warning: package 'corrplot' was built under R version 3.4.4

## corrplot 0.84 loaded

library(scales)  
library(qqplotr)

## Warning: package 'qqplotr' was built under R version 3.4.4

##   
## Attaching package: 'qqplotr'

## The following objects are masked from 'package:ggplot2':  
##   
## stat\_qq\_line, StatQqLine

library(MASS)

## Warning: package 'MASS' was built under R version 3.4.4

##   
## Attaching package: 'MASS'

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

library(DMwR)

## Warning: package 'DMwR' was built under R version 3.4.4

## Loading required package: lattice

## Warning: package 'lattice' was built under R version 3.4.4

library(car)

## Warning: package 'car' was built under R version 3.4.4

## Loading required package: carData

## Warning: package 'carData' was built under R version 3.4.4

##   
## Attaching package: 'car'

## The following object is masked from 'package:dplyr':  
##   
## recode

library(e1071)  
library(caret)  
library(caTools)  
library(pROC)

## Warning: package 'pROC' was built under R version 3.4.4

## Type 'citation("pROC")' for a citation.

##   
## Attaching package: 'pROC'

## The following objects are masked from 'package:stats':  
##   
## cov, smooth, var

library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.4.4

## -- Attaching packages ------------------------------------------------------ tidyverse 1.2.1 --

## v tibble 2.1.1 v readr 1.1.1  
## v tidyr 0.8.3 v purrr 0.3.2  
## v tibble 2.1.1 v forcats 0.3.0

## Warning: package 'tibble' was built under R version 3.4.4

## Warning: package 'tidyr' was built under R version 3.4.4

## Warning: package 'readr' was built under R version 3.4.4

## Warning: package 'purrr' was built under R version 3.4.4

## Warning: package 'forcats' was built under R version 3.4.4

## -- Conflicts --------------------------------------------------------- tidyverse\_conflicts() --  
## x data.table::between() masks dplyr::between()  
## x readr::col\_factor() masks scales::col\_factor()  
## x gridExtra::combine() masks dplyr::combine()  
## x purrr::discard() masks scales::discard()  
## x dplyr::filter() masks stats::filter()  
## x data.table::first() masks dplyr::first()  
## x dplyr::lag() masks stats::lag()  
## x data.table::last() masks dplyr::last()  
## x purrr::lift() masks caret::lift()  
## x car::recode() masks dplyr::recode()  
## x MASS::select() masks dplyr::select()  
## x purrr::some() masks car::some()  
## x qqplotr::stat\_qq\_line() masks ggplot2::stat\_qq\_line()  
## x purrr::transpose() masks data.table::transpose()

library(MVA)

## Warning: package 'MVA' was built under R version 3.4.4

## Loading required package: HSAUR2

## Warning: package 'HSAUR2' was built under R version 3.4.4

## Loading required package: tools

library(GGally)

## Warning: package 'GGally' was built under R version 3.4.4

##   
## Attaching package: 'GGally'

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

library(gvlma)

## Warning: package 'gvlma' was built under R version 3.4.4

##Importing Dataset and doing preliminary analysis

#Importing CSV file from drive on my local computer and viewing it   
  
tablechurn<-read.csv("C:/Users/SHIVANSHI/Desktop/Priyanshi/MVA/Telecom Churn Analysis Data.csv")  
tablechurn <- as.data.frame(tablechurn)  
View(tablechurn)  
  
#Checking the Dimension of the dataset  
  
dim(tablechurn)

## [1] 7043 21

#Viewing the first 4 rows of the dataset to get the overview of the dataset  
  
head(tablechurn,4)

## CustomerID Gender SeniorCitizen Partner Dependents Tenure PhoneService  
## 1 7590-VHVEG Female 0 Yes No 1 No  
## 2 5575-GNVDE Male 0 No No 34 Yes  
## 3 3668-QPYBK Male 0 No No 2 Yes  
## 4 7795-CFOCW Male 0 No No 45 No  
## MultipleLines InternetService OnlineSecurity OnlineBackup  
## 1 No phone service DSL No Yes  
## 2 No DSL Yes No  
## 3 No DSL Yes Yes  
## 4 No phone service DSL Yes No  
## DeviceProtection TechSupport StreamingTV StreamingMovies Contract  
## 1 No No No No Month-to-month  
## 2 Yes No No No One year  
## 3 No No No No Month-to-month  
## 4 Yes Yes No No One year  
## PaperlessBilling PaymentMethod MonthlyCharges TotalCharges  
## 1 Yes Electronic check 29.85 29.85  
## 2 No Mailed check 56.95 1889.50  
## 3 Yes Mailed check 53.85 108.15  
## 4 No Bank transfer (automatic) 42.30 1840.75  
## Churn  
## 1 No  
## 2 No  
## 3 Yes  
## 4 No

#Gaining more insight about the kind of data stored in each column  
  
summary(tablechurn)

## CustomerID Gender SeniorCitizen Partner Dependents  
## 0002-ORFBO: 1 Female:3488 Min. :0.0000 No :3641 No :4933   
## 0003-MKNFE: 1 Male :3555 1st Qu.:0.0000 Yes:3402 Yes:2110   
## 0004-TLHLJ: 1 Median :0.0000   
## 0011-IGKFF: 1 Mean :0.1621   
## 0013-EXCHZ: 1 3rd Qu.:0.0000   
## 0013-MHZWF: 1 Max. :1.0000   
## (Other) :7037   
## Tenure PhoneService MultipleLines InternetService  
## Min. : 0.00 No : 682 No :3390 DSL :2421   
## 1st Qu.: 9.00 Yes:6361 No phone service: 682 Fiber optic:3096   
## Median :29.00 Yes :2971 No :1526   
## Mean :32.37   
## 3rd Qu.:55.00   
## Max. :72.00   
##   
## OnlineSecurity OnlineBackup   
## No :3498 No :3088   
## No internet service:1526 No internet service:1526   
## Yes :2019 Yes :2429   
##   
##   
##   
##   
## DeviceProtection TechSupport   
## No :3095 No :3473   
## No internet service:1526 No internet service:1526   
## Yes :2422 Yes :2044   
##   
##   
##   
##   
## StreamingTV StreamingMovies  
## No :2810 No :2785   
## No internet service:1526 No internet service:1526   
## Yes :2707 Yes :2732   
##   
##   
##   
##   
## Contract PaperlessBilling PaymentMethod   
## Month-to-month:3875 No :2872 Bank transfer (automatic):1544   
## One year :1473 Yes:4171 Credit card (automatic) :1522   
## Two year :1695 Electronic check :2365   
## Mailed check :1612   
##   
##   
##   
## MonthlyCharges TotalCharges Churn   
## Min. : 18.25 Min. : 18.8 No :5174   
## 1st Qu.: 35.50 1st Qu.: 401.4 Yes:1869   
## Median : 70.35 Median :1397.5   
## Mean : 64.76 Mean :2283.3   
## 3rd Qu.: 89.85 3rd Qu.:3794.7   
## Max. :118.75 Max. :8684.8   
## NA's :11

glimpse(tablechurn)

## Observations: 7,043  
## Variables: 21  
## $ CustomerID <fct> 7590-VHVEG, 5575-GNVDE, 3668-QPYBK, 7795-CFOC...  
## $ Gender <fct> Female, Male, Male, Male, Female, Female, Mal...  
## $ SeniorCitizen <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...  
## $ Partner <fct> Yes, No, No, No, No, No, No, No, Yes, No, Yes...  
## $ Dependents <fct> No, No, No, No, No, No, Yes, No, No, Yes, Yes...  
## $ Tenure <int> 1, 34, 2, 45, 2, 8, 22, 10, 28, 62, 13, 16, 5...  
## $ PhoneService <fct> No, Yes, Yes, No, Yes, Yes, Yes, No, Yes, Yes...  
## $ MultipleLines <fct> No phone service, No, No, No phone service, N...  
## $ InternetService <fct> DSL, DSL, DSL, DSL, Fiber optic, Fiber optic,...  
## $ OnlineSecurity <fct> No, Yes, Yes, Yes, No, No, No, Yes, No, Yes, ...  
## $ OnlineBackup <fct> Yes, No, Yes, No, No, No, Yes, No, No, Yes, N...  
## $ DeviceProtection <fct> No, Yes, No, Yes, No, Yes, No, No, Yes, No, N...  
## $ TechSupport <fct> No, No, No, Yes, No, No, No, No, Yes, No, No,...  
## $ StreamingTV <fct> No, No, No, No, No, Yes, Yes, No, Yes, No, No...  
## $ StreamingMovies <fct> No, No, No, No, No, Yes, No, No, Yes, No, No,...  
## $ Contract <fct> Month-to-month, One year, Month-to-month, One...  
## $ PaperlessBilling <fct> Yes, No, Yes, No, Yes, Yes, Yes, No, Yes, No,...  
## $ PaymentMethod <fct> Electronic check, Mailed check, Mailed check,...  
## $ MonthlyCharges <dbl> 29.85, 56.95, 53.85, 42.30, 70.70, 99.65, 89....  
## $ TotalCharges <dbl> 29.85, 1889.50, 108.15, 1840.75, 151.65, 820....  
## $ Churn <fct> No, No, Yes, No, Yes, Yes, No, No, Yes, No, N...

#The above results give us an insight that TotalCharges and MonthlyCharges are numerical values  
#SeniorCitizen and Tenure are stored as numerical which need to be converted to categorical variables

## Performing Data Cleaning and Formatting

#Converting SeniorCitizen numerical variable into Categorical Variable   
  
tablechurn$SeniorCitizen<-factor(tablechurn$SeniorCitizen,levels = c(0 ,1),labels = c('no','yes'))  
  
#Converting tenure values into ranges of 12 months  
  
tablechurn <- mutate(tablechurn,Tenure\_Range = Tenure)  
cut(tablechurn$Tenure\_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))

## [1] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [7] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years  
## [13] 5-6 Years 5-6 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years  
## [19] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [25] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years  
## [31] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [37] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
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## [49] 5-6 Years 6-7 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years  
## [55] 5-6 Years 1-2 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years  
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## [667] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years  
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## [805] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years  
## [811] 5-6 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years 2-3 Years  
## [817] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 6-7 Years 4-5 Years  
## [823] 4-5 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 1-2 Years  
## [829] 5-6 Years 2-3 Years 5-6 Years 4-5 Years 6-7 Years 4-5 Years  
## [835] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years  
## [841] 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [847] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 5-6 Years  
## [853] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years  
## [859] 6-7 Years 6-7 Years 2-3 Years 6-7 Years 1-2 Years 0-1 Years  
## [865] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years  
## [871] 6-7 Years 5-6 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Years  
## [877] 1-2 Years 5-6 Years 5-6 Years 2-3 Years 0-1 Years 2-3 Years  
## [883] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years  
## [889] 4-5 Years 6-7 Years 2-3 Years 5-6 Years 2-3 Years 0-1 Years  
## [895] 6-7 Years 2-3 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Years  
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## [6967] 5-6 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [6973] 5-6 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years  
## [6979] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years  
## [6985] 2-3 Years 4-5 Years 2-3 Years 2-3 Years 1-2 Years 1-2 Years  
## [6991] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Years  
## [6997] 4-5 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [7003] 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years  
## [7009] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years  
## [7015] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years  
## [7021] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years  
## [7027] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years  
## [7033] 0-1 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years  
## [7039] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## Levels: 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years

tablechurn$Tenure\_Range <- cut(tablechurn$Tenure\_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))  
  
#Checking if there are any NULL values in any of the columns   
table(is.na(tablechurn))

##   
## FALSE TRUE   
## 154935 11

str\_detect(tablechurn,'NA')

## Warning in stri\_detect\_regex(string, pattern, negate = negate, opts\_regex =  
## opts(pattern)): argument is not an atomic vector; coercing

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [12] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE

setDT(tablechurn)  
tablechurn[is.na(TotalCharges),NROW(TotalCharges)]

## [1] 11

#There are 11 rows out of 7043 rows that have null values.Hence removing these rows since they are only 0.15% of total so we can afford to drop them  
  
tablechurn <- tablechurn[complete.cases(tablechurn), ]  
  
#Replacing 'No Internet Service' values in OnlineSecurity,OnlineBackup DeviceProtection,TechSupport,StreamingTV and StreamingMovies columns with 'No'  
  
tablechurn$OnlineSecurity[tablechurn$OnlineSecurity=='No internet service'] <- 'No'  
tablechurn$OnlineBackup[tablechurn$OnlineBackup=='No internet service'] <- 'No'  
tablechurn$DeviceProtection[tablechurn$DeviceProtection=='No internet service'] <- 'No'  
tablechurn$TechSupport[tablechurn$TechSupport=='No internet service'] <- 'No'  
tablechurn$StreamingTV[tablechurn$StreamingTV=='No internet service'] <- 'No'  
tablechurn$StreamingMovies[tablechurn$StreamingMovies=='No internet service'] <- 'No'  
  
#Deleting the unused levels from the factor variables  
  
tablechurn$OnlineSecurity <- factor(tablechurn$OnlineSecurity)  
tablechurn$OnlineBackup <- factor(tablechurn$OnlineBackup)  
tablechurn$DeviceProtection <- factor(tablechurn$DeviceProtection)  
tablechurn$TechSupport <- factor(tablechurn$TechSupport)  
tablechurn$StreamingTV <- factor(tablechurn$StreamingTV)  
  
#Converting Categorical Columns into numerical values   
tablechurn$Partner<-ifelse(tablechurn$Partner=='Yes', 1,2)  
tablechurn$Dependents<-ifelse(tablechurn$Dependents=='Yes', 1,2)  
tablechurn$PhoneService<-ifelse(tablechurn$PhoneService=='Yes', 1,2)  
tablechurn$OnlineBackup<-ifelse(tablechurn$OnlineBackup=='Yes', 1,2)  
tablechurn$OnlineSecurity<-ifelse(tablechurn$OnlineSecurity=='Yes', 1,2)  
tablechurn$DeviceProtection<-ifelse(tablechurn$DeviceProtection=='Yes', 1,2)  
tablechurn$TechSupport<-ifelse(tablechurn$TechSupport=='Yes', 1,2)  
tablechurn$StreamingTV<-ifelse(tablechurn$StreamingTV=='Yes', 1,2)  
tablechurn$StreamingMovies<-ifelse(tablechurn$StreamingMovies=='Yes', 1,2)  
tablechurn$PaperlessBilling<-ifelse(tablechurn$PaperlessBilling=='Yes', 1,2)  
tablechurn$Churn<-ifelse(tablechurn$Churn=='Yes', 1,2)  
  
#Converting Categorical Columns into numerical values  
tablechurn$Gender<-factor(tablechurn$Gender,levels = c('Female','Male'),labels = c(1,2))  
tablechurn$MultipleLines<-factor(tablechurn$MultipleLines,levels = c('No','Yes','No phone service'),labels = c(1,2,3))  
tablechurn$InternetService<-factor(tablechurn$InternetService,levels = c('No','Fiber optic','DSL'),labels = c(1,2,3))  
tablechurn$Contract<-factor(tablechurn$Contract,levels = c('Month-to-month','One year','Two year'),labels = c(1,2,3))  
tablechurn$PaymentMethod<-factor(tablechurn$PaymentMethod,levels = c('Bank transfer (automatic)',  
 'Credit card (automatic)',  
 'Electronic check',  
 'Mailed check'),labels = c(1,2,3,4))  
  
#Checking the dimension of the dataset again after performing above changes  
  
dim(tablechurn)

## [1] 7032 22

str(tablechurn)

## Classes 'data.table' and 'data.frame': 7032 obs. of 22 variables:  
## $ CustomerID : Factor w/ 7043 levels "0002-ORFBO","0003-MKNFE",..: 5376 3963 2565 5536 6512 6552 1003 4771 5605 4535 ...  
## $ Gender : Factor w/ 2 levels "1","2": 1 2 2 2 1 1 2 1 1 2 ...  
## $ SeniorCitizen : Factor w/ 2 levels "no","yes": 1 1 1 1 1 1 1 1 1 1 ...  
## $ Partner : num 1 2 2 2 2 2 2 2 1 2 ...  
## $ Dependents : num 2 2 2 2 2 2 1 2 2 1 ...  
## $ Tenure : int 1 34 2 45 2 8 22 10 28 62 ...  
## $ PhoneService : num 2 1 1 2 1 1 1 2 1 1 ...  
## $ MultipleLines : Factor w/ 3 levels "1","2","3": 3 1 1 3 1 2 2 3 2 1 ...  
## $ InternetService : Factor w/ 3 levels "1","2","3": 3 3 3 3 2 2 2 3 2 3 ...  
## $ OnlineSecurity : num 2 1 1 1 2 2 2 1 2 1 ...  
## $ OnlineBackup : num 1 2 1 2 2 2 1 2 2 1 ...  
## $ DeviceProtection: num 2 1 2 1 2 1 2 2 1 2 ...  
## $ TechSupport : num 2 2 2 1 2 2 2 2 1 2 ...  
## $ StreamingTV : num 2 2 2 2 2 1 1 2 1 2 ...  
## $ StreamingMovies : num 2 2 2 2 2 1 2 2 1 2 ...  
## $ Contract : Factor w/ 3 levels "1","2","3": 1 2 1 2 1 1 1 1 1 2 ...  
## $ PaperlessBilling: num 1 2 1 2 1 1 1 2 1 2 ...  
## $ PaymentMethod : Factor w/ 4 levels "1","2","3","4": 3 4 4 1 3 3 2 4 3 1 ...  
## $ MonthlyCharges : num 29.9 57 53.9 42.3 70.7 ...  
## $ TotalCharges : num 29.9 1889.5 108.2 1840.8 151.7 ...  
## $ Churn : num 2 2 1 2 1 1 2 2 1 2 ...  
## $ Tenure\_Range : Factor w/ 6 levels "0-1 Years","1-2 Years",..: 1 3 1 4 1 1 2 1 3 6 ...  
## - attr(\*, ".internal.selfref")=<externalptr>

##Converting factors into numeric columns  
tablechurn$Gender<-as.numeric(tablechurn$Gender)  
tablechurn$SeniorCitizen<-as.numeric(tablechurn$SeniorCitizen)  
tablechurn$Tenure<-as.numeric(tablechurn$Tenure)  
tablechurn$MultipleLines<-as.numeric(tablechurn$MultipleLines)  
tablechurn$InternetService<-as.numeric(tablechurn$InternetService)  
tablechurn$Contract<-as.numeric(tablechurn$Contract)  
tablechurn$PaymentMethod<-as.numeric(tablechurn$PaymentMethod)  
  
tablechurn$Churn<-as.integer(tablechurn$Churn)  
  
str(tablechurn)

## Classes 'data.table' and 'data.frame': 7032 obs. of 22 variables:  
## $ CustomerID : Factor w/ 7043 levels "0002-ORFBO","0003-MKNFE",..: 5376 3963 2565 5536 6512 6552 1003 4771 5605 4535 ...  
## $ Gender : num 1 2 2 2 1 1 2 1 1 2 ...  
## $ SeniorCitizen : num 1 1 1 1 1 1 1 1 1 1 ...  
## $ Partner : num 1 2 2 2 2 2 2 2 1 2 ...  
## $ Dependents : num 2 2 2 2 2 2 1 2 2 1 ...  
## $ Tenure : num 1 34 2 45 2 8 22 10 28 62 ...  
## $ PhoneService : num 2 1 1 2 1 1 1 2 1 1 ...  
## $ MultipleLines : num 3 1 1 3 1 2 2 3 2 1 ...  
## $ InternetService : num 3 3 3 3 2 2 2 3 2 3 ...  
## $ OnlineSecurity : num 2 1 1 1 2 2 2 1 2 1 ...  
## $ OnlineBackup : num 1 2 1 2 2 2 1 2 2 1 ...  
## $ DeviceProtection: num 2 1 2 1 2 1 2 2 1 2 ...  
## $ TechSupport : num 2 2 2 1 2 2 2 2 1 2 ...  
## $ StreamingTV : num 2 2 2 2 2 1 1 2 1 2 ...  
## $ StreamingMovies : num 2 2 2 2 2 1 2 2 1 2 ...  
## $ Contract : num 1 2 1 2 1 1 1 1 1 2 ...  
## $ PaperlessBilling: num 1 2 1 2 1 1 1 2 1 2 ...  
## $ PaymentMethod : num 3 4 4 1 3 3 2 4 3 1 ...  
## $ MonthlyCharges : num 29.9 57 53.9 42.3 70.7 ...  
## $ TotalCharges : num 29.9 1889.5 108.2 1840.8 151.7 ...  
## $ Churn : int 2 2 1 2 1 1 2 2 1 2 ...  
## $ Tenure\_Range : Factor w/ 6 levels "0-1 Years","1-2 Years",..: 1 3 1 4 1 1 2 1 3 6 ...  
## - attr(\*, ".internal.selfref")=<externalptr>

dim(tablechurn)

## [1] 7032 22

#MULTIPLE Regression  
  
##Performing regression taking all independent variables  
  
fit <- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService  
 +MultipleLines+InternetService+OnlineBackup+OnlineSecurity  
 +DeviceProtection+TechSupport+StreamingTV+StreamingMovies  
 +Contract+PaperlessBilling+PaymentMethod+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
  
summary(fit)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## StreamingTV + StreamingMovies + Contract + PaperlessBilling +   
## PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.16590 -0.29353 0.07249 0.26751 0.80298   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.714e+00 9.660e-02 28.098 < 2e-16 \*\*\*  
## Gender 3.950e-03 8.991e-03 0.439 0.660414   
## SeniorCitizen -5.014e-02 1.306e-02 -3.840 0.000124 \*\*\*  
## Partner 1.714e-03 1.086e-02 0.158 0.874621   
## Dependents -2.389e-02 1.153e-02 -2.072 0.038282 \*   
## Tenure 1.677e-03 5.009e-04 3.348 0.000818 \*\*\*  
## PhoneService -1.394e-01 2.904e-02 -4.799 1.63e-06 \*\*\*  
## MultipleLines -2.248e-02 1.131e-02 -1.987 0.046912 \*   
## InternetService 9.770e-03 8.449e-03 1.156 0.247568   
## OnlineBackup -5.578e-02 1.164e-02 -4.792 1.68e-06 \*\*\*  
## OnlineSecurity -9.139e-02 1.214e-02 -7.526 5.88e-14 \*\*\*  
## DeviceProtection -4.199e-02 1.193e-02 -3.518 0.000437 \*\*\*  
## TechSupport -9.267e-02 1.229e-02 -7.541 5.23e-14 \*\*\*  
## StreamingTV -1.756e-02 1.286e-02 -1.366 0.172065   
## StreamingMovies -1.631e-02 1.285e-02 -1.269 0.204469   
## Contract 4.278e-02 8.513e-03 5.025 5.16e-07 \*\*\*  
## PaperlessBilling 5.032e-02 1.002e-02 5.020 5.28e-07 \*\*\*  
## PaymentMethod -7.811e-03 4.582e-03 -1.705 0.088325 .   
## MonthlyCharges -7.487e-03 3.787e-04 -19.771 < 2e-16 \*\*\*  
## TotalCharges 5.178e-05 6.456e-06 8.020 1.23e-15 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3766 on 7012 degrees of freedom  
## Multiple R-squared: 0.2752, Adjusted R-squared: 0.2733   
## F-statistic: 140.1 on 19 and 7012 DF, p-value: < 2.2e-16

coefficients(fit)

## (Intercept) Gender SeniorCitizen Partner   
## 2.714155e+00 3.950385e-03 -5.014032e-02 1.714374e-03   
## Dependents Tenure PhoneService MultipleLines   
## -2.388902e-02 1.677144e-03 -1.393886e-01 -2.247510e-02   
## InternetService OnlineBackup OnlineSecurity DeviceProtection   
## 9.770498e-03 -5.578451e-02 -9.139497e-02 -4.198796e-02   
## TechSupport StreamingTV StreamingMovies Contract   
## -9.267124e-02 -1.756008e-02 -1.631069e-02 4.277958e-02   
## PaperlessBilling PaymentMethod MonthlyCharges TotalCharges   
## 5.032174e-02 -7.810663e-03 -7.487043e-03 5.178225e-05

confint(fit,level=0.95)

## 2.5 % 97.5 %  
## (Intercept) 2.524795e+00 2.903514e+00  
## Gender -1.367509e-02 2.157586e-02  
## SeniorCitizen -7.573475e-02 -2.454588e-02  
## Partner -1.958311e-02 2.301186e-02  
## Dependents -4.648785e-02 -1.290193e-03  
## Tenure 6.952143e-04 2.659074e-03  
## PhoneService -1.963237e-01 -8.245341e-02  
## MultipleLines -4.464321e-02 -3.069874e-04  
## InternetService -6.792601e-03 2.633360e-02  
## OnlineBackup -7.860242e-02 -3.296659e-02  
## OnlineSecurity -1.152002e-01 -6.758976e-02  
## DeviceProtection -6.538174e-02 -1.859419e-02  
## TechSupport -1.167600e-01 -6.858252e-02  
## StreamingTV -4.276481e-02 7.644647e-03  
## StreamingMovies -4.150602e-02 8.884647e-03  
## Contract 2.609097e-02 5.946819e-02  
## PaperlessBilling 3.067289e-02 6.997059e-02  
## PaymentMethod -1.679332e-02 1.171998e-03  
## MonthlyCharges -8.229400e-03 -6.744687e-03  
## TotalCharges 3.912607e-05 6.443843e-05

# Predicted Values  
fitted(fit)

## 1 2 3 4 5 6 7 8   
## 1.578780 1.880416 1.678410 1.937790 1.401416 1.282747 1.476809 1.688546   
## 9 10 11 12 13 14 15 16   
## 1.483933 2.077254 1.717267 1.959292 1.716204 1.614848 1.574554 2.055288   
## 17 18 19 20 21 22 23 24   
## 1.980638 1.946143 1.775126 1.491103 1.463953 1.903086 1.808091 1.977252   
## 25 26 27 28 29 30 31 32   
## 2.043183 1.807653 1.593758 1.654338 2.093027 1.579966 1.968530 1.253056   
## 33 34 35 36 37 38 39 40   
## 1.965696 1.831151 1.614298 2.076464 1.426442 1.670198 1.477226 1.331630   
## 41 42 43 44 45 46 47 48   
## 1.766935 2.038720 1.912051 2.059164 1.664647 1.565201 1.671200 1.344092   
## 49 50 51 52 53 54 55 56   
## 1.930623 2.104153 1.515463 1.465457 1.676756 1.351189 2.021071 1.291050   
## 57 58 59 60 61 62 63 64   
## 1.781483 1.805298 1.969694 1.881547 1.541334 1.699777 2.046809 1.809192   
## 65 66 67 68 69 70 71 72   
## 1.333968 1.565537 1.674989 1.870027 2.064647 1.513946 1.705424 1.965679   
## 73 74 75 76 77 78 79 80   
## 1.873543 2.010794 1.700504 1.747586 1.846266 1.770401 1.664160 1.904618   
## 81 82 83 84 85 86 87 88   
## 1.372681 1.611991 1.450257 1.676852 1.990957 1.317690 1.803056 2.064079   
## 89 90 91 92 93 94 95 96   
## 1.985485 1.655493 1.678477 1.462609 2.048314 1.773511 1.885400 1.465507   
## 97 98 99 100 101 102 103 104   
## 2.087871 1.812913 2.052542 1.433993 1.807719 1.839330 1.701129 1.843590   
## 105 106 107 108 109 110 111 112   
## 1.909429 1.623075 1.862220 1.797630 1.588948 2.125687 1.703197 2.067152   
## 113 114 115 116 117 118 119 120   
## 1.625557 1.483028 1.910856 1.505913 1.874101 1.365834 1.995244 1.598261   
## 121 122 123 124 125 126 127 128   
## 1.678007 1.813203 1.360900 1.735683 1.828319 1.756831 1.460416 2.024418   
## 129 130 131 132 133 134 135 136   
## 1.811065 1.825419 1.354619 1.678997 2.080151 1.503333 1.659097 1.921895   
## 137 138 139 140 141 142 143 144   
## 1.595700 2.082281 2.024825 1.337741 2.082207 1.667438 1.741134 1.848846   
## 145 146 147 148 149 150 151 152   
## 2.021598 1.969717 1.860476 1.595521 1.840735 1.714669 1.607434 1.311814   
## 153 154 155 156 157 158 159 160   
## 1.911209 2.136435 1.842904 1.451123 1.431457 1.928965 1.833269 1.880133   
## 161 162 163 164 165 166 167 168   
## 1.742501 1.536136 1.408051 1.959287 1.893565 2.077412 1.425178 2.103867   
## 169 170 171 172 173 174 175 176   
## 1.706550 1.873010 1.830838 1.298163 1.755045 1.689753 1.952199 1.848398   
## 177 178 179 180 181 182 183 184   
## 1.366191 1.492174 1.383646 1.975877 1.645693 1.636684 1.398348 1.846331   
## 185 186 187 188 189 190 191 192   
## 1.503334 1.560543 1.679969 1.673597 1.890233 1.785555 1.882053 1.392101   
## 193 194 195 196 197 198 199 200   
## 2.122525 2.006352 2.095801 1.584380 1.904834 1.728209 1.945436 1.827519   
## 201 202 203 204 205 206 207 208   
## 1.607545 1.557549 1.938621 1.461861 1.693158 1.722184 2.084625 1.397726   
## 209 210 211 212 213 214 215 216   
## 1.513385 1.881538 1.604401 1.609233 2.078333 1.951910 1.406809 1.815652   
## 217 218 219 220 221 222 223 224   
## 2.141182 2.030928 2.012778 1.399521 1.414931 2.065977 1.830162 1.708001   
## 225 226 227 228 229 230 231 232   
## 1.854783 1.637301 1.822625 1.578921 1.536051 1.948968 1.848374 1.817120   
## 233 234 235 236 237 238 239 240   
## 1.396043 2.103744 1.834308 1.560730 1.726035 1.449440 1.324249 1.935483   
## 241 242 243 244 245 246 247 248   
## 2.083875 1.987960 1.894560 1.842952 1.626327 1.471787 1.767586 1.452888   
## 249 250 251 252 253 254 255 256   
## 1.657543 1.701082 1.792042 1.475926 1.523516 1.823266 1.784062 1.956047   
## 257 258 259 260 261 262 263 264   
## 1.982088 1.845230 1.609013 1.618156 1.460869 1.274606 1.599191 1.859793   
## 265 266 267 268 269 270 271 272   
## 1.784124 2.101678 2.002073 1.484980 2.052810 2.006205 1.393881 2.083862   
## 273 274 275 276 277 278 279 280   
## 1.632151 1.426340 1.442752 1.437522 1.618962 1.678835 1.569121 1.693631   
## 281 282 283 284 285 286 287 288   
## 1.732877 1.694655 1.766519 1.938081 1.474004 1.507899 1.678816 1.453310   
## 289 290 291 292 293 294 295 296   
## 1.416179 1.644598 1.410053 1.912877 1.710600 1.273771 1.836325 1.807347   
## 297 298 299 300 301 302 303 304   
## 1.950786 1.407030 1.673911 1.481458 1.656382 1.193380 1.422811 2.010506   
## 305 306 307 308 309 310 311 312   
## 1.586482 2.006671 1.461325 1.841411 1.513208 1.834106 1.783942 1.587770   
## 313 314 315 316 317 318 319 320   
## 1.820681 1.374536 1.367502 1.853866 2.047348 1.947027 1.405860 1.558567   
## 321 322 323 324 325 326 327 328   
## 1.937659 1.969354 1.601841 1.801265 2.006232 1.669845 1.421263 1.353244   
## 329 330 331 332 333 334 335 336   
## 1.563162 1.382556 1.958063 1.822794 1.662600 1.382364 1.389533 2.018779   
## 337 338 339 340 341 342 343 344   
## 1.649719 2.080551 1.552252 1.704365 1.832840 2.163871 1.972960 2.019964   
## 345 346 347 348 349 350 351 352   
## 1.946194 1.312522 1.288649 2.098836 1.532496 1.895990 1.962254 1.772317   
## 353 354 355 356 357 358 359 360   
## 1.277285 1.427652 1.568805 1.411219 1.615913 1.839847 1.703344 1.693005   
## 361 362 363 364 365 366 367 368   
## 1.841607 1.737107 1.944183 1.961459 1.564808 1.376687 1.717408 1.811576   
## 369 370 371 372 373 374 375 376   
## 1.766785 2.030802 1.958044 1.290066 1.900561 1.814090 1.552348 1.856674   
## 377 378 379 380 381 382 383 384   
## 1.604630 1.468567 2.064418 1.580815 1.762957 1.656641 2.018495 1.307108   
## 385 386 387 388 389 390 391 392   
## 1.667400 1.784582 1.647884 1.868036 1.558863 1.682000 1.410470 1.628845   
## 393 394 395 396 397 398 399 400   
## 1.555476 1.854190 1.442136 2.061331 1.548549 1.617216 1.607268 1.927192   
## 401 402 403 404 405 406 407 408   
## 1.956615 1.891327 1.740868 2.115208 1.899237 2.055659 1.819860 1.475806   
## 409 410 411 412 413 414 415 416   
## 1.755677 1.761858 1.314725 1.893282 1.494120 1.754625 1.618424 1.603772   
## 417 418 419 420 421 422 423 424   
## 1.940837 1.921689 1.572946 1.368814 1.734960 1.450626 1.674956 1.937595   
## 425 426 427 428 429 430 431 432   
## 1.735400 1.773450 1.617933 1.403595 1.453047 2.081709 1.942429 2.056577   
## 433 434 435 436 437 438 439 440   
## 1.726328 1.655969 1.965037 1.677111 1.962289 2.037632 1.573590 1.702800   
## 441 442 443 444 445 446 447 448   
## 1.457823 1.614753 1.791465 1.694197 1.594998 1.667685 1.446609 1.976090   
## 449 450 451 452 453 454 455 456   
## 1.364878 2.095906 1.980061 1.708428 1.822560 1.513488 2.006697 1.418366   
## 457 458 459 460 461 462 463 464   
## 1.757160 1.895354 1.810101 1.344307 1.848290 1.636731 1.318750 1.290069   
## 465 466 467 468 469 470 471 472   
## 1.953161 1.898177 1.835060 1.829674 2.031486 1.659050 1.835946 1.542312   
## 473 474 475 476 477 478 479 480   
## 1.519450 1.865185 1.443765 1.492612 1.719191 1.724548 1.362394 1.569439   
## 481 482 483 484 485 486 487 488   
## 1.946986 1.760988 1.395996 1.900934 1.438152 1.838442 1.335325 2.014837   
## 489 490 491 492 493 494 495 496   
## 1.373773 1.818655 1.570188 1.462760 1.864598 1.806232 1.677539 1.897375   
## 497 498 499 500 501 502 503 504   
## 2.101091 1.603106 1.455965 1.706195 1.838767 2.009941 1.865370 2.133258   
## 505 506 507 508 509 510 511 512   
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## 1.725865 2.114009 1.964367 1.993545 1.699389 1.770688 1.900975 1.789723   
## 6937 6938 6939 6940 6941 6942 6943 6944   
## 1.771510 1.769628 1.782595 1.685640 1.993233 1.585919 1.329473 1.798847   
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## 1.639235 2.050839 1.493282 1.919836 1.558075 1.519134 1.469400 1.464793   
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## 7017 7018 7019 7020 7021 7022 7023 7024   
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## 7025 7026 7027 7028 7029 7030 7031 7032   
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residuals(fit)

## 1 2 3 4 5   
## 4.212205e-01 1.195841e-01 -6.784100e-01 6.221027e-02 -4.014162e-01   
## 6 7 8 9 10   
## -2.827473e-01 5.231914e-01 3.114542e-01 -4.839328e-01 -7.725445e-02   
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## 2.827325e-01 4.070819e-02 2.837956e-01 -6.148475e-01 4.254464e-01   
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## -4.639526e-01 9.691352e-02 -8.080907e-01 2.274791e-02 -4.318281e-02   
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## -8.868231e-01 4.424669e-01 5.926571e-01 -6.334427e-01 -3.094810e-02   
## 6991 6992 6993 6994 6995   
## -6.194026e-01 1.510891e-01 2.372026e-01 4.342355e-01 6.782851e-02   
## 6996 6997 6998 6999 7000   
## -5.341992e-01 -4.910679e-03 -3.111364e-01 -4.744019e-01 -2.933352e-01   
## 7001 7002 7003 7004 7005   
## -7.299373e-01 9.295996e-04 4.096674e-01 4.359333e-01 4.930302e-01   
## 7006 7007 7008 7009 7010   
## 3.342943e-01 -4.505845e-02 -4.142334e-01 4.840340e-03 1.753519e-01   
## 7011 7012 7013 7014 7015   
## -6.963625e-01 1.989088e-01 3.568745e-01 3.328288e-01 5.308326e-01   
## 7016 7017 7018 7019 7020   
## -6.499883e-01 3.210324e-01 -1.032665e-01 5.800353e-01 2.427666e-01   
## 7021 7022 7023 7024 7025   
## 7.823893e-02 -2.893342e-01 3.893726e-01 -8.097692e-01 5.232701e-01   
## 7026 7027 7028 7029 7030   
## 3.330831e-01 -4.685621e-02 2.637199e-01 1.691649e-01 3.266835e-01   
## 7031 7032   
## -3.069020e-01 4.129215e-02

#Anova Table  
anova(fit)

## Analysis of Variance Table  
##   
## Response: Churn  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Gender 1 0.10 0.100 0.7064 0.40068   
## SeniorCitizen 1 31.09 31.092 219.2101 < 2.2e-16 \*\*\*  
## Partner 1 31.94 31.942 225.1981 < 2.2e-16 \*\*\*  
## Dependents 1 7.01 7.007 49.4036 2.280e-12 \*\*\*  
## Tenure 1 143.41 143.413 1011.1025 < 2.2e-16 \*\*\*  
## PhoneService 1 0.22 0.224 1.5826 0.20843   
## MultipleLines 1 28.49 28.491 200.8684 < 2.2e-16 \*\*\*  
## InternetService 1 2.83 2.831 19.9589 8.037e-06 \*\*\*  
## OnlineBackup 1 0.09 0.092 0.6490 0.42049   
## OnlineSecurity 1 8.41 8.406 59.2631 1.569e-14 \*\*\*  
## DeviceProtection 1 1.29 1.286 9.0682 0.00261 \*\*   
## TechSupport 1 5.91 5.911 41.6721 1.151e-10 \*\*\*  
## StreamingTV 1 20.06 20.061 141.4371 < 2.2e-16 \*\*\*  
## StreamingMovies 1 8.13 8.128 57.3065 4.207e-14 \*\*\*  
## Contract 1 21.94 21.938 154.6714 < 2.2e-16 \*\*\*  
## PaperlessBilling 1 11.10 11.098 78.2460 < 2.2e-16 \*\*\*  
## PaymentMethod 1 0.00 0.001 0.0050 0.94340   
## MonthlyCharges 1 46.53 46.531 328.0532 < 2.2e-16 \*\*\*  
## TotalCharges 1 9.12 9.124 64.3284 1.225e-15 \*\*\*  
## Residuals 7012 994.57 0.142   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

vcov(fit)

## (Intercept) Gender SeniorCitizen Partner  
## (Intercept) 9.330979e-03 -1.043314e-04 -7.174709e-05 -1.196903e-04  
## Gender -1.043314e-04 8.084175e-05 -1.918729e-07 -7.220319e-07  
## SeniorCitizen -7.174709e-05 -1.918729e-07 1.704688e-04 1.433912e-05  
## Partner -1.196903e-04 -7.220319e-07 1.433912e-05 1.180349e-04  
## Dependents -7.359280e-05 1.271971e-06 -2.827964e-05 -5.513827e-05  
## Tenure -2.655198e-06 -1.438413e-08 -2.714253e-07 6.209264e-07  
## PhoneService -1.325468e-03 -1.919321e-06 -1.375776e-05 -4.739417e-06  
## MultipleLines 2.621207e-04 7.127575e-07 -4.244851e-06 2.555923e-06  
## InternetService -2.141852e-04 -1.254449e-06 2.906557e-06 -5.852266e-07  
## OnlineBackup -4.321501e-04 -1.679395e-06 -1.639265e-06 3.367763e-07  
## OnlineSecurity -4.649507e-04 -2.405852e-06 -8.707809e-06 -7.710743e-07  
## DeviceProtection -4.054213e-04 1.640601e-07 -2.683899e-06 -1.943922e-06  
## TechSupport -3.973676e-04 -1.006999e-06 -1.372185e-05 2.804173e-06  
## StreamingTV -4.884500e-04 -4.046762e-07 -6.087791e-06 -1.093309e-06  
## StreamingMovies -4.996359e-04 -9.416645e-07 -2.726379e-06 -1.069560e-06  
## Contract -3.314475e-04 3.762276e-07 7.694614e-06 9.571979e-07  
## PaperlessBilling -2.410612e-04 -8.575108e-07 5.524762e-06 2.985978e-08  
## PaymentMethod -7.834087e-05 -7.445961e-07 3.226624e-07 -9.974055e-07  
## MonthlyCharges -2.315082e-05 1.284184e-08 -6.076301e-07 5.001210e-08  
## TotalCharges -5.857800e-08 -8.271498e-10 1.028860e-09 5.862567e-10  
## Dependents Tenure PhoneService MultipleLines  
## (Intercept) -7.359280e-05 -2.655198e-06 -1.325468e-03 2.621207e-04  
## Gender 1.271971e-06 -1.438413e-08 -1.919321e-06 7.127575e-07  
## SeniorCitizen -2.827964e-05 -2.714253e-07 -1.375776e-05 -4.244851e-06  
## Partner -5.513827e-05 6.209264e-07 -4.739417e-06 2.555923e-06  
## Dependents 1.329003e-04 -8.259228e-08 -5.466097e-06 -8.899269e-07  
## Tenure -8.259228e-08 2.509082e-07 3.599119e-07 -4.764958e-07  
## PhoneService -5.466097e-06 3.599119e-07 8.435583e-04 -2.398677e-04  
## MultipleLines -8.899269e-07 -4.764958e-07 -2.398677e-04 1.278825e-04  
## InternetService -2.600217e-07 -1.288240e-07 -7.277115e-05 3.739687e-06  
## OnlineBackup -3.649096e-06 -1.067779e-07 4.383273e-05 -8.987536e-06  
## OnlineSecurity -5.172883e-06 -2.189410e-07 3.401055e-05 -1.112849e-05  
## DeviceProtection 2.046162e-07 -2.530302e-07 4.908229e-05 -9.437501e-06  
## TechSupport -2.548810e-06 -5.059799e-07 3.258670e-05 -1.156028e-05  
## StreamingTV -4.345735e-06 -2.065340e-07 7.783321e-05 -1.261980e-05  
## StreamingMovies 1.805325e-07 -2.368224e-07 7.820319e-05 -1.163990e-05  
## Contract 7.055507e-06 -1.650745e-06 2.682114e-05 -2.626768e-06  
## PaperlessBilling 2.582901e-06 1.619332e-07 1.346655e-05 7.414882e-07  
## PaymentMethod 4.599891e-07 4.332767e-07 -2.218533e-08 6.444628e-07  
## MonthlyCharges -2.334312e-07 7.015047e-08 5.462805e-06 -1.177836e-06  
## TotalCharges -1.400690e-09 -2.559805e-09 1.250002e-08 -4.421621e-09  
## InternetService OnlineBackup OnlineSecurity  
## (Intercept) -2.141852e-04 -4.321501e-04 -4.649507e-04  
## Gender -1.254449e-06 -1.679395e-06 -2.405852e-06  
## SeniorCitizen 2.906557e-06 -1.639265e-06 -8.707809e-06  
## Partner -5.852266e-07 3.367763e-07 -7.710743e-07  
## Dependents -2.600217e-07 -3.649096e-06 -5.172883e-06  
## Tenure -1.288240e-07 -1.067779e-07 -2.189410e-07  
## PhoneService -7.277115e-05 4.383273e-05 3.401055e-05  
## MultipleLines 3.739687e-06 -8.987536e-06 -1.112849e-05  
## InternetService 7.138995e-05 1.481684e-05 2.939667e-05  
## OnlineBackup 1.481684e-05 1.354896e-04 3.871325e-06  
## OnlineSecurity 2.939667e-05 3.871325e-06 1.474679e-04  
## DeviceProtection 1.158418e-05 6.968639e-06 5.240840e-06  
## TechSupport 2.689060e-05 1.850624e-06 -6.362494e-06  
## StreamingTV -7.690445e-07 1.331065e-05 1.859493e-05  
## StreamingMovies -8.601065e-09 1.599902e-05 1.630379e-05  
## Contract 9.941673e-06 4.457994e-06 1.460907e-05  
## PaperlessBilling 2.160343e-06 1.275585e-06 1.030859e-05  
## PaymentMethod 1.246129e-06 1.217583e-07 2.268381e-07  
## MonthlyCharges -5.724919e-07 7.342228e-07 5.395447e-07  
## TotalCharges 6.723676e-09 1.338913e-08 1.137596e-08  
## DeviceProtection TechSupport StreamingTV  
## (Intercept) -4.054213e-04 -3.973676e-04 -4.884500e-04  
## Gender 1.640601e-07 -1.006999e-06 -4.046762e-07  
## SeniorCitizen -2.683899e-06 -1.372185e-05 -6.087791e-06  
## Partner -1.943922e-06 2.804173e-06 -1.093309e-06  
## Dependents 2.046162e-07 -2.548810e-06 -4.345735e-06  
## Tenure -2.530302e-07 -5.059799e-07 -2.065340e-07  
## PhoneService 4.908229e-05 3.258670e-05 7.783321e-05  
## MultipleLines -9.437501e-06 -1.156028e-05 -1.261980e-05  
## InternetService 1.158418e-05 2.689060e-05 -7.690445e-07  
## OnlineBackup 6.968639e-06 1.850624e-06 1.331065e-05  
## OnlineSecurity 5.240840e-06 -6.362494e-06 1.859493e-05  
## DeviceProtection 1.424146e-04 -1.441401e-06 1.917970e-07  
## TechSupport -1.441401e-06 1.510015e-04 3.442249e-06  
## StreamingTV 1.917970e-07 3.442249e-06 1.653172e-04  
## StreamingMovies -2.348457e-06 3.950646e-06 -1.737778e-05  
## Contract 1.356267e-05 2.371814e-05 1.357233e-05  
## PaperlessBilling 6.110666e-06 4.468371e-06 -1.485915e-06  
## PaymentMethod -3.925489e-07 -2.622397e-07 1.250326e-06  
## MonthlyCharges 7.895166e-07 4.171404e-07 1.694071e-06  
## TotalCharges 1.041821e-08 1.071044e-08 6.810876e-09  
## StreamingMovies Contract PaperlessBilling  
## (Intercept) -4.996359e-04 -3.314475e-04 -2.410612e-04  
## Gender -9.416645e-07 3.762276e-07 -8.575108e-07  
## SeniorCitizen -2.726379e-06 7.694614e-06 5.524762e-06  
## Partner -1.069560e-06 9.571979e-07 2.985978e-08  
## Dependents 1.805325e-07 7.055507e-06 2.582901e-06  
## Tenure -2.368224e-07 -1.650745e-06 1.619332e-07  
## PhoneService 7.820319e-05 2.682114e-05 1.346655e-05  
## MultipleLines -1.163990e-05 -2.626768e-06 7.414882e-07  
## InternetService -8.601065e-09 9.941673e-06 2.160343e-06  
## OnlineBackup 1.599902e-05 4.457994e-06 1.275585e-06  
## OnlineSecurity 1.630379e-05 1.460907e-05 1.030859e-05  
## DeviceProtection -2.348457e-06 1.356267e-05 6.110666e-06  
## TechSupport 3.950646e-06 2.371814e-05 4.468371e-06  
## StreamingTV -1.737778e-05 1.357233e-05 -1.485915e-06  
## StreamingMovies 1.651940e-04 1.399133e-05 1.137417e-06  
## Contract 1.399133e-05 7.247600e-05 -7.238461e-06  
## PaperlessBilling 1.137417e-06 -7.238461e-06 1.004681e-04  
## PaymentMethod 7.983254e-07 7.276605e-07 -1.007124e-06  
## MonthlyCharges 1.646184e-06 8.133148e-07 6.816789e-07  
## TotalCharges 7.393941e-09 3.944176e-09 -8.912854e-10  
## PaymentMethod MonthlyCharges TotalCharges  
## (Intercept) -7.834087e-05 -2.315082e-05 -5.857800e-08  
## Gender -7.445961e-07 1.284184e-08 -8.271498e-10  
## SeniorCitizen 3.226624e-07 -6.076301e-07 1.028860e-09  
## Partner -9.974055e-07 5.001210e-08 5.862567e-10  
## Dependents 4.599891e-07 -2.334312e-07 -1.400690e-09  
## Tenure 4.332767e-07 7.015047e-08 -2.559805e-09  
## PhoneService -2.218533e-08 5.462805e-06 1.250002e-08  
## MultipleLines 6.444628e-07 -1.177836e-06 -4.421621e-09  
## InternetService 1.246129e-06 -5.724919e-07 6.723676e-09  
## OnlineBackup 1.217583e-07 7.342228e-07 1.338913e-08  
## OnlineSecurity 2.268381e-07 5.395447e-07 1.137596e-08  
## DeviceProtection -3.925489e-07 7.895166e-07 1.041821e-08  
## TechSupport -2.622397e-07 4.171404e-07 1.071044e-08  
## StreamingTV 1.250326e-06 1.694071e-06 6.810876e-09  
## StreamingMovies 7.983254e-07 1.646184e-06 7.393941e-09  
## Contract 7.276605e-07 8.133148e-07 3.944176e-09  
## PaperlessBilling -1.007124e-06 6.816789e-07 -8.912854e-10  
## PaymentMethod 2.099732e-05 1.594187e-07 -2.132492e-09  
## MonthlyCharges 1.594187e-07 1.434099e-07 -1.126434e-09  
## TotalCharges -2.132492e-09 -1.126434e-09 4.168302e-11

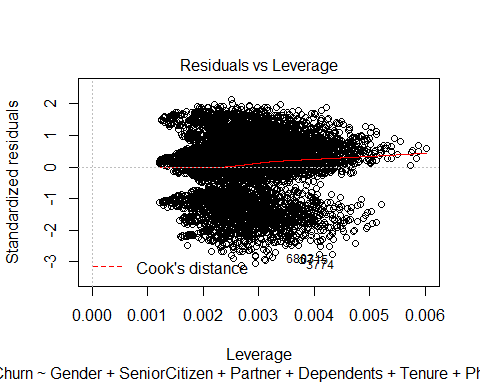
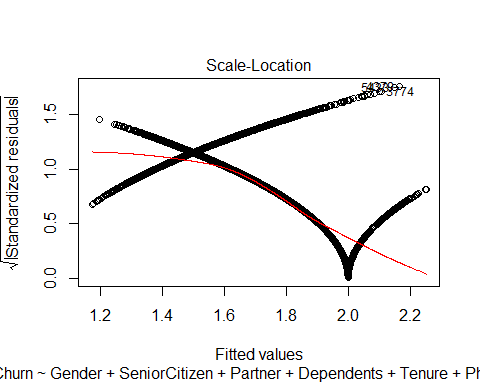
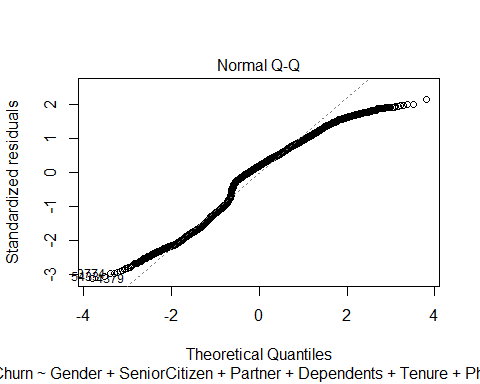
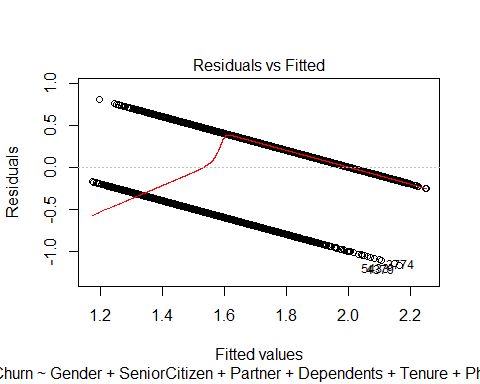
cov2cor(vcov(fit))

## (Intercept) Gender SeniorCitizen Partner  
## (Intercept) 1.00000000 -0.120124991 -0.056887682 -0.1140485821  
## Gender -0.12012499 1.000000000 -0.001634456 -0.0073915108  
## SeniorCitizen -0.05688768 -0.001634456 1.000000000 0.1010868537  
## Partner -0.11404858 -0.007391511 0.101086854 1.0000000000  
## Dependents -0.06608590 0.012271465 -0.187883457 -0.4402354054  
## Tenure -0.05487517 -0.003193804 -0.041502129 0.1140978354  
## PhoneService -0.47244143 -0.007349743 -0.036280035 -0.0150197278  
## MultipleLines 0.23995631 0.007010005 -0.028749773 0.0208035239  
## InternetService -0.26242624 -0.016512650 0.026347409 -0.0063752938  
## OnlineBackup -0.38434222 -0.016046567 -0.010786334 0.0026630738  
## OnlineSecurity -0.39636423 -0.022034448 -0.054920899 -0.0058444292  
## DeviceProtection -0.35169465 0.001529001 -0.017225288 -0.0149932688  
## TechSupport -0.33476364 -0.009114247 -0.085526315 0.0210043335  
## StreamingTV -0.39327608 -0.003500505 -0.036264217 -0.0078267000  
## StreamingMovies -0.40243240 -0.008148567 -0.016246757 -0.0076595445  
## Contract -0.40304543 0.004915137 0.069225690 0.0103490223  
## PaperlessBilling -0.24897151 -0.009514976 0.042215996 0.0002741999  
## PaymentMethod -0.17698759 -0.018072613 0.005393169 -0.0200347772  
## MonthlyCharges -0.63286796 0.003771549 -0.122893017 0.0121557057  
## TotalCharges -0.09392720 -0.014249077 0.012205460 0.0083580106  
## Dependents Tenure PhoneService MultipleLines  
## (Intercept) -0.066085903 -0.054875174 -0.4724414252 0.239956313  
## Gender 0.012271465 -0.003193804 -0.0073497432 0.007010005  
## SeniorCitizen -0.187883457 -0.041502129 -0.0362800351 -0.028749773  
## Partner -0.440235405 0.114097835 -0.0150197278 0.020803524  
## Dependents 1.000000000 -0.014302736 -0.0163251398 -0.006826307  
## Tenure -0.014302736 1.000000000 0.0247389472 -0.084119387  
## PhoneService -0.016325140 0.024738947 1.0000000000 -0.730312367  
## MultipleLines -0.006826307 -0.084119387 -0.7303123670 1.000000000  
## InternetService -0.002669489 -0.030438324 -0.2965399227 0.039139127  
## OnlineBackup -0.027193772 -0.018313490 0.1296546345 -0.068278207  
## OnlineSecurity -0.036950553 -0.035993236 0.0964289163 -0.081036697  
## DeviceProtection 0.001487305 -0.042328976 0.1416087256 -0.069931717  
## TechSupport -0.017992189 -0.082202537 0.0913045053 -0.083190171  
## StreamingTV -0.029318470 -0.032068233 0.2084243111 -0.086793655  
## StreamingMovies 0.001218416 -0.036784795 0.2094931462 -0.080084142  
## Contract 0.071889960 -0.387102138 0.1084732349 -0.027284690  
## PaperlessBilling 0.022352739 0.032252577 0.0462577826 0.006541609  
## PaymentMethod 0.008707684 0.188766964 -0.0001666964 0.012436847  
## MonthlyCharges -0.053469544 0.369814198 0.4966707501 -0.275036036  
## TotalCharges -0.018819129 -0.791534549 0.0666612625 -0.060561464  
## InternetService OnlineBackup OnlineSecurity  
## (Intercept) -2.624262e-01 -0.384342218 -0.396364232  
## Gender -1.651265e-02 -0.016046567 -0.022034448  
## SeniorCitizen 2.634741e-02 -0.010786334 -0.054920899  
## Partner -6.375294e-03 0.002663074 -0.005844429  
## Dependents -2.669489e-03 -0.027193772 -0.036950553  
## Tenure -3.043832e-02 -0.018313490 -0.035993236  
## PhoneService -2.965399e-01 0.129654634 0.096428916  
## MultipleLines 3.913913e-02 -0.068278207 -0.081036697  
## InternetService 1.000000e+00 0.150655219 0.286504096  
## OnlineBackup 1.506552e-01 1.000000000 0.027387844  
## OnlineSecurity 2.865041e-01 0.027387844 1.000000000  
## DeviceProtection 1.148867e-01 0.050166960 0.036163867  
## TechSupport 2.589950e-01 0.012938223 -0.042637133  
## StreamingTV -7.079033e-03 0.088937971 0.119093125  
## StreamingMovies -7.920208e-05 0.106940746 0.104458219  
## Contract 1.382114e-01 0.044987250 0.141311182  
## PaperlessBilling 2.550880e-02 0.010933076 0.084690841  
## PaymentMethod 3.218567e-02 0.002282778 0.004076479  
## MonthlyCharges -1.789210e-01 0.166565591 0.117324590  
## TotalCharges 1.232562e-01 0.178163964 0.145097370  
## DeviceProtection TechSupport StreamingTV  
## (Intercept) -0.351694650 -0.334763642 -0.393276081  
## Gender 0.001529001 -0.009114247 -0.003500505  
## SeniorCitizen -0.017225288 -0.085526315 -0.036264217  
## Partner -0.014993269 0.021004333 -0.007826700  
## Dependents 0.001487305 -0.017992189 -0.029318470  
## Tenure -0.042328976 -0.082202537 -0.032068233  
## PhoneService 0.141608726 0.091304505 0.208424311  
## MultipleLines -0.069931717 -0.083190171 -0.086793655  
## InternetService 0.114886685 0.258995028 -0.007079033  
## OnlineBackup 0.050166960 0.012938223 0.088937971  
## OnlineSecurity 0.036163867 -0.042637133 0.119093125  
## DeviceProtection 1.000000000 -0.009829171 0.001249987  
## TechSupport -0.009829171 1.000000000 0.021786765  
## StreamingTV 0.001249987 0.021786765 1.000000000  
## StreamingMovies -0.015311169 0.025013845 -0.105157016  
## Contract 0.133496839 0.226721613 0.123993281  
## PaperlessBilling 0.051085452 0.036278100 -0.011529776  
## PaymentMethod -0.007178515 -0.004657211 0.021221809  
## MonthlyCharges 0.174700623 0.089640054 0.347922814  
## TotalCharges 0.135218601 0.135001107 0.082047320  
## StreamingMovies Contract PaperlessBilling  
## (Intercept) -4.024324e-01 -0.403045428 -0.2489715131  
## Gender -8.148567e-03 0.004915137 -0.0095149757  
## SeniorCitizen -1.624676e-02 0.069225690 0.0422159960  
## Partner -7.659544e-03 0.010349022 0.0002741999  
## Dependents 1.218416e-03 0.071889960 0.0223527390  
## Tenure -3.678479e-02 -0.387102138 0.0322525774  
## PhoneService 2.094931e-01 0.108473235 0.0462577826  
## MultipleLines -8.008414e-02 -0.027284690 0.0065416094  
## InternetService -7.920208e-05 0.138211394 0.0255087997  
## OnlineBackup 1.069407e-01 0.044987250 0.0109330759  
## OnlineSecurity 1.044582e-01 0.141311182 0.0846908407  
## DeviceProtection -1.531117e-02 0.133496839 0.0510854523  
## TechSupport 2.501384e-02 0.226721613 0.0362780999  
## StreamingTV -1.051570e-01 0.123993281 -0.0115297760  
## StreamingMovies 1.000000e+00 0.127868842 0.0088289399  
## Contract 1.278688e-01 1.000000000 -0.0848271864  
## PaperlessBilling 8.828940e-03 -0.084827186 1.0000000000  
## PaymentMethod 1.355504e-02 0.018653045 -0.0219273902  
## MonthlyCharges 3.382141e-01 0.252273697 0.1795875220  
## TotalCharges 8.910444e-02 0.071759542 -0.0137728282  
## PaymentMethod MonthlyCharges TotalCharges  
## (Intercept) -0.1769875922 -0.632867955 -0.093927200  
## Gender -0.0180726126 0.003771549 -0.014249077  
## SeniorCitizen 0.0053931685 -0.122893017 0.012205460  
## Partner -0.0200347772 0.012155706 0.008358011  
## Dependents 0.0087076837 -0.053469544 -0.018819129  
## Tenure 0.1887669642 0.369814198 -0.791534549  
## PhoneService -0.0001666964 0.496670750 0.066661263  
## MultipleLines 0.0124368473 -0.275036036 -0.060561464  
## InternetService 0.0321856660 -0.178920961 0.123256160  
## OnlineBackup 0.0022827775 0.166565591 0.178163964  
## OnlineSecurity 0.0040764789 0.117324590 0.145097370  
## DeviceProtection -0.0071785152 0.174700623 0.135218601  
## TechSupport -0.0046572109 0.089640054 0.135001107  
## StreamingTV 0.0212218090 0.347922814 0.082047320  
## StreamingMovies 0.0135550435 0.338214078 0.089104435  
## Contract 0.0186530455 0.252273697 0.071759542  
## PaperlessBilling -0.0219273902 0.179587522 -0.013772828  
## PaymentMethod 1.0000000000 0.091868757 -0.072081851  
## MonthlyCharges 0.0918687568 1.000000000 -0.460719561  
## TotalCharges -0.0720818510 -0.460719561 1.000000000

temp <- influence.measures(fit)  
temp

## Influence measures of  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure + PhoneService + MultipleLines + InternetService + OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport + StreamingTV + StreamingMovies + Contract + PaperlessBilling + PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn) :  
##   
## dfb.1\_ dfb.Gndr dfb.SnrC dfb.Prtn dfb.Dpnd dfb.Tenr dfb.PhnS  
## 1 -2.03e-03 -1.34e-02 -1.12e-02 -2.90e-02 1.88e-02 -2.65e-02 1.89e-02  
## 2 -4.60e-03 3.55e-03 -8.24e-04 2.91e-03 1.89e-03 2.50e-03 -7.70e-05  
## 3 -1.66e-02 -2.24e-02 6.71e-03 -5.75e-03 -1.07e-02 8.29e-03 1.46e-02  
## 4 -1.74e-03 1.97e-03 -5.51e-04 1.78e-03 8.49e-04 1.71e-03 3.82e-03  
## 5 1.64e-02 1.29e-02 9.08e-03 -4.11e-03 -2.83e-03 2.32e-03 -1.53e-02  
## 6 -7.70e-03 8.71e-03 8.13e-03 -5.15e-03 -1.11e-03 -6.52e-03 8.23e-03  
## 7 3.38e-03 1.68e-02 -7.18e-03 3.03e-02 -3.91e-02 5.68e-03 -9.05e-03  
## 8 -1.16e-02 -1.04e-02 -4.01e-03 3.72e-03 4.00e-03 -6.90e-03 1.58e-02  
## 9 -2.08e-02 1.50e-02 1.57e-02 2.48e-02 -1.72e-02 -8.20e-03 9.92e-03  
## 10 1.92e-03 -2.36e-03 -3.38e-04 -5.61e-03 5.17e-03 -3.27e-03 -6.37e-04  
## 11 2.67e-03 8.69e-03 -9.30e-04 -7.84e-03 -9.75e-03 -1.00e-03 -3.15e-03  
## 12 -3.66e-04 1.31e-03 7.68e-05 6.56e-04 9.97e-04 -2.55e-03 1.91e-04  
## 13 -1.12e-02 8.46e-03 -9.79e-03 -1.01e-02 1.06e-02 -3.09e-03 4.24e-04  
## 14 -1.83e-02 -1.97e-02 2.05e-02 -2.28e-02 -6.28e-05 -5.54e-03 1.13e-02  
## 15 1.80e-02 1.43e-02 -7.58e-03 9.59e-03 2.85e-03 1.63e-02 1.17e-02  
## 16 -5.80e-04 1.76e-03 3.61e-04 -3.01e-04 2.10e-03 2.73e-03 -4.31e-04  
## 17 -2.77e-05 -6.52e-04 -1.41e-04 5.71e-04 3.35e-04 1.49e-03 1.19e-04  
## 18 -2.59e-03 1.61e-03 -3.12e-04 4.58e-03 -3.98e-03 -1.96e-03 7.92e-04  
## 19 -2.14e-02 2.59e-02 -1.79e-03 2.18e-02 2.84e-02 6.94e-03 9.64e-03  
## 20 6.73e-03 -1.59e-02 -1.38e-02 1.07e-02 1.97e-03 1.39e-02 1.48e-02  
## 21 3.95e-03 -1.41e-02 -3.36e-02 -9.05e-03 4.53e-03 2.01e-02 -1.51e-02  
## 22 2.87e-03 3.21e-03 -9.67e-04 -6.04e-03 5.22e-03 -6.10e-03 -2.72e-05  
## 23 -2.44e-02 -2.49e-02 3.60e-03 -6.00e-03 -1.39e-02 3.60e-02 7.29e-03  
## 24 -4.00e-04 -7.19e-04 -3.98e-04 -9.53e-04 1.10e-03 -1.60e-05 -9.46e-04  
## 25 -1.31e-03 -1.36e-03 -2.29e-05 5.48e-04 1.51e-03 -1.99e-03 1.38e-04  
## 26 6.80e-03 -5.78e-03 -2.71e-03 4.38e-03 2.18e-03 3.62e-03 -2.37e-03  
## 27 -7.01e-03 -1.83e-02 1.50e-02 4.41e-03 2.73e-02 -5.38e-03 6.43e-03  
## 28 1.66e-02 -1.97e-02 5.50e-03 2.18e-02 2.27e-02 3.88e-02 -3.23e-02  
## 29 -4.12e-03 -3.08e-03 1.59e-03 2.92e-03 -4.37e-03 1.10e-03 4.64e-03  
## 30 -1.08e-02 2.00e-02 3.04e-04 -3.06e-02 4.21e-02 -1.11e-02 1.16e-02  
## 31 -6.85e-04 -9.73e-04 2.12e-03 -7.15e-04 7.99e-04 -1.00e-03 3.81e-04  
## 32 1.54e-02 2.52e-02 4.46e-02 -4.00e-02 1.71e-02 6.42e-03 1.39e-02  
## 33 1.03e-03 -1.10e-03 2.43e-04 -7.11e-04 -1.02e-03 2.40e-04 -1.62e-04  
## 34 8.00e-03 5.49e-03 -8.44e-04 1.58e-03 2.77e-03 -1.06e-02 -1.51e-03  
## 35 -1.23e-02 1.18e-02 3.17e-02 7.25e-03 -1.87e-03 -1.79e-02 -5.53e-03  
## 36 1.93e-03 2.42e-03 4.62e-04 -3.57e-04 2.73e-03 3.19e-03 -1.48e-03  
## 37 2.05e-02 -1.33e-02 9.70e-03 -4.69e-03 -3.28e-03 9.93e-04 -1.58e-02  
## 38 -1.17e-02 -1.13e-02 -9.00e-03 1.03e-02 3.05e-04 9.51e-03 1.51e-02  
## 39 -1.10e-02 -1.53e-02 1.55e-02 -1.40e-02 -1.11e-03 -1.17e-02 9.90e-03  
## 40 -1.33e-02 9.90e-03 9.55e-03 -6.89e-03 -1.07e-03 -3.11e-03 1.01e-02  
## 41 -7.72e-03 6.97e-03 1.28e-04 -6.78e-03 -6.81e-03 -7.72e-03 -1.13e-03  
## 42 -1.76e-04 1.24e-03 2.19e-04 -1.05e-04 1.25e-03 -6.33e-05 1.63e-03  
## 43 1.93e-03 -2.93e-03 4.42e-04 -2.26e-03 -2.47e-03 -2.85e-03 3.39e-04  
## 44 -1.92e-03 1.82e-03 4.02e-04 -2.40e-03 -9.35e-04 -3.61e-04 3.01e-03  
## 45 2.92e-02 -9.48e-03 -5.97e-03 -2.05e-02 1.60e-02 2.01e-03 -2.41e-02  
## 46 -1.46e-02 -1.46e-02 -1.43e-02 1.46e-02 -5.10e-04 1.53e-02 -2.34e-03  
## 47 -6.34e-03 9.98e-03 -3.32e-03 2.57e-03 4.90e-03 -5.64e-03 -5.29e-03  
## 48 7.53e-03 1.09e-02 7.78e-03 -3.88e-03 -2.86e-03 -2.49e-03 -1.11e-02  
## 49 3.61e-04 2.28e-03 -4.49e-04 2.44e-03 1.07e-03 -8.08e-04 -3.52e-03  
## 50 -7.62e-04 3.41e-03 -5.44e-05 -9.02e-05 3.58e-03 -2.26e-03 4.26e-03  
## 51 -7.95e-03 -1.58e-02 2.96e-02 1.95e-02 -6.77e-03 9.41e-03 -6.00e-03  
## 52 -2.18e-02 1.30e-02 1.07e-02 -8.97e-03 -4.16e-03 -1.26e-02 -1.12e-02  
## 53 1.99e-02 -9.66e-03 2.41e-02 -1.49e-02 8.93e-03 8.16e-04 -2.27e-02  
## 54 3.02e-04 1.04e-02 -1.98e-02 1.83e-02 -8.01e-03 5.63e-03 6.28e-03  
## 55 -1.23e-03 6.66e-04 -1.92e-03 -1.09e-04 1.15e-03 -5.10e-04 1.70e-04  
## 56 4.11e-03 -9.30e-03 -1.82e-02 -8.74e-03 3.84e-03 -3.79e-03 6.64e-03  
## 57 -1.53e-03 -7.11e-03 -4.15e-03 4.60e-04 -9.60e-03 -3.94e-03 1.12e-03  
## 58 2.33e-03 5.83e-03 1.47e-02 2.11e-03 -1.20e-02 -2.95e-03 -1.30e-03  
## 59 4.81e-04 -9.62e-04 8.89e-05 -4.54e-04 -8.10e-04 -8.34e-04 -1.20e-03  
## 60 -5.02e-03 -4.04e-03 -2.52e-03 5.58e-03 4.09e-04 -5.00e-03 1.60e-03  
## 61 4.74e-03 -1.52e-02 -1.85e-02 -1.89e-02 1.48e-02 5.88e-03 -5.31e-03  
## 62 -5.09e-03 9.29e-03 -9.94e-03 1.18e-02 4.21e-04 3.73e-03 -1.07e-03  
## 63 2.37e-03 -1.50e-03 1.04e-03 1.62e-03 -2.35e-03 -2.10e-03 -3.37e-03  
## 64 3.61e-03 -6.27e-03 5.35e-04 -4.60e-03 -6.58e-03 -4.29e-03 -1.57e-03  
## 65 3.84e-03 1.05e-02 8.55e-03 -5.75e-03 -2.10e-03 -6.27e-03 6.90e-03  
## 66 2.96e-02 -1.30e-02 -4.17e-03 4.27e-03 5.42e-03 5.24e-03 -1.29e-02  
## 67 -1.65e-02 1.02e-02 -1.14e-02 -1.47e-02 1.34e-02 -7.16e-04 5.86e-04  
## 68 5.48e-04 -4.22e-03 -1.02e-04 3.12e-03 2.47e-03 -1.25e-04 -1.40e-03  
## 69 -4.71e-04 2.07e-03 -2.78e-04 6.26e-04 1.72e-03 -1.53e-03 -9.08e-04  
## 70 -5.21e-03 1.56e-02 -9.82e-03 7.15e-03 4.29e-03 8.55e-03 1.58e-02  
## 71 -6.22e-03 8.80e-03 -9.93e-04 1.71e-03 4.23e-03 -3.99e-03 -4.08e-03  
## 72 1.24e-03 -1.13e-03 -9.56e-05 -3.69e-04 -1.11e-03 2.01e-03 1.79e-04  
## 73 -4.39e-04 4.05e-03 1.04e-02 1.62e-03 -7.27e-03 -6.82e-03 8.00e-04  
## 74 -2.71e-04 -3.49e-04 4.23e-05 3.61e-05 3.20e-04 -4.66e-04 4.32e-04  
## 75 2.11e-02 -8.87e-03 2.82e-03 1.40e-02 -2.09e-02 -2.59e-03 -6.46e-03  
## 76 -1.20e-03 -8.08e-03 1.73e-02 1.27e-02 -2.69e-03 -2.18e-03 -1.71e-03  
## 77 -7.69e-03 -5.29e-03 -1.96e-03 4.63e-03 1.56e-03 2.75e-03 4.27e-04  
## 78 5.63e-03 -7.35e-03 -4.08e-05 -6.74e-03 -7.30e-03 -2.02e-03 -2.88e-03  
## 79 1.61e-02 1.11e-02 2.59e-02 1.10e-02 -1.81e-03 1.06e-02 -8.91e-03  
## 80 5.02e-03 -3.02e-03 -5.69e-04 -1.05e-03 -3.21e-03 2.07e-03 -4.39e-03  
## 81 5.16e-03 1.22e-02 2.53e-03 -1.74e-02 2.72e-02 -2.21e-03 -1.18e-02  
## 82 7.12e-03 -1.25e-02 -2.94e-03 -1.00e-02 -1.39e-02 -5.82e-03 1.70e-02  
## 83 4.14e-04 1.38e-02 1.41e-02 2.78e-02 -1.76e-02 6.11e-03 -1.57e-02  
## 84 1.67e-02 -9.92e-03 -7.40e-03 1.00e-02 7.69e-04 7.76e-03 9.65e-03  
## 85 1.77e-04 -2.74e-04 -1.25e-04 -4.16e-04 4.82e-04 1.37e-04 8.58e-05  
## 86 1.86e-02 2.37e-02 -2.02e-02 1.18e-02 4.57e-03 9.77e-03 -1.94e-02  
## 87 1.67e-03 -6.04e-03 -3.53e-03 -9.85e-03 9.48e-03 -2.38e-03 -2.54e-04  
## 88 -4.02e-04 2.05e-03 -2.89e-04 6.68e-04 1.71e-03 -8.02e-04 -9.56e-04  
## 89 1.29e-04 -4.79e-04 3.62e-05 -1.93e-04 -3.94e-04 3.70e-04 1.47e-04  
## 90 -1.65e-02 9.83e-03 -8.92e-03 -1.97e-02 1.54e-02 4.97e-03 1.72e-02  
## 91 -4.58e-03 9.96e-03 -5.38e-03 -5.21e-03 -1.35e-02 1.47e-03 1.47e-02  
## 92 -2.61e-02 1.70e-02 4.24e-02 9.14e-03 -3.66e-03 1.51e-03 1.86e-02  
## 93 -1.03e-03 -1.45e-03 -1.27e-05 -2.40e-05 1.66e-03 1.80e-04 2.36e-03  
## 94 9.36e-03 -7.16e-03 -7.24e-03 1.02e-02 -1.96e-04 1.71e-03 -1.99e-03  
## 95 -3.30e-03 3.53e-03 -2.99e-03 5.56e-03 6.78e-04 -5.32e-03 3.37e-05  
## 96 3.19e-03 1.40e-02 1.12e-02 -7.92e-03 -3.41e-03 -2.85e-03 6.66e-03  
## 97 -1.65e-03 -2.79e-03 4.59e-04 5.51e-05 3.20e-03 -3.04e-03 3.63e-03  
## 98 -2.24e-02 -2.49e-02 4.30e-03 -7.40e-03 -1.37e-02 2.68e-02 5.85e-03  
## 99 8.97e-04 -1.67e-03 2.00e-04 -1.66e-03 -1.13e-03 -1.71e-03 -6.80e-04  
## 100 -1.50e-02 1.34e-02 -2.51e-02 1.90e-02 -9.13e-03 -7.19e-03 -9.35e-03  
## 101 5.79e-03 5.91e-03 -8.59e-04 1.43e-03 3.32e-03 -8.56e-03 -1.72e-03  
## 102 9.47e-03 -5.24e-03 5.22e-04 -5.20e-03 -5.04e-03 -9.44e-03 -1.13e-03  
## 103 -8.43e-03 9.39e-03 -5.21e-03 9.03e-03 2.54e-03 -1.67e-03 -1.12e-03  
## 104 -4.26e-03 -5.27e-03 1.01e-02 -4.32e-03 4.22e-03 6.90e-03 8.77e-03  
## 105 5.70e-03 -2.93e-02 2.62e-02 2.86e-02 -3.64e-02 5.34e-02 -5.21e-03  
## 106 -2.56e-02 1.07e-02 -5.75e-03 3.28e-03 4.39e-03 -1.55e-02 1.89e-02  
## 107 7.28e-04 -4.48e-03 -2.78e-03 7.44e-04 -5.97e-03 -1.37e-03 5.82e-04  
## 108 -1.40e-02 -6.84e-03 -2.37e-03 4.39e-03 3.13e-03 2.08e-03 1.25e-02  
## 109 -2.83e-02 1.21e-02 -1.01e-02 1.30e-02 3.02e-03 4.54e-03 -9.74e-04  
## 110 1.37e-03 -3.82e-03 -2.05e-04 2.23e-04 3.39e-03 -1.15e-02 -1.99e-03  
## 111 -3.27e-03 -2.29e-02 2.63e-02 2.83e-02 -2.70e-02 -1.11e-02 1.88e-03  
## 112 2.63e-05 2.21e-03 1.37e-04 -2.15e-03 -9.37e-04 -2.62e-03 1.13e-04  
## 113 -1.33e-03 -1.25e-02 -1.04e-02 1.15e-02 1.31e-03 1.15e-02 1.48e-02  
## 114 2.24e-02 1.60e-02 -2.61e-02 1.94e-02 -8.72e-03 -3.10e-03 1.63e-03  
## 115 -1.36e-03 -2.96e-03 -5.48e-04 -3.95e-04 -3.02e-03 2.69e-03 5.53e-03  
## 116 8.11e-03 1.68e-02 -4.81e-03 -1.44e-02 -1.64e-02 7.53e-03 1.55e-02  
## 117 -1.00e-02 -4.02e-03 -1.11e-03 3.28e-03 2.32e-03 -2.96e-03 8.86e-03  
## 118 -1.59e-02 1.08e-02 6.70e-03 8.26e-03 1.50e-02 -5.06e-03 7.77e-03  
## 119 -1.08e-04 -1.58e-04 -7.65e-06 1.22e-04 1.06e-04 1.03e-04 5.29e-05  
## 120 5.35e-03 1.32e-02 -6.71e-03 -7.85e-03 -1.68e-02 5.16e-03 -3.72e-03  
## 121 -2.20e-03 -1.09e-02 -6.99e-03 -8.28e-05 -1.49e-02 -4.33e-03 -4.50e-04  
## 122 6.64e-03 -6.14e-03 -9.74e-04 1.86e-03 3.00e-03 -5.51e-03 -1.33e-03  
## 123 1.30e-02 -1.15e-02 9.51e-03 -4.32e-03 -2.40e-03 3.00e-03 5.57e-03  
## 124 9.52e-05 -8.79e-03 8.14e-05 -7.86e-03 -8.80e-03 -3.43e-03 -2.02e-03  
## 125 8.59e-03 -5.71e-03 4.37e-04 -5.45e-03 -5.40e-03 -7.25e-03 -8.16e-04  
## 126 -1.15e-02 8.04e-03 -1.93e-03 6.00e-03 4.20e-03 -3.77e-03 1.25e-02  
## 127 1.06e-02 1.53e-02 -2.94e-02 -1.55e-02 6.89e-03 -5.23e-03 8.07e-03  
## 128 -4.31e-04 -8.08e-04 4.96e-04 8.57e-04 -1.25e-03 -1.61e-03 9.90e-04  
## 129 5.84e-03 5.81e-03 -8.17e-04 1.40e-03 3.27e-03 -8.49e-03 -1.81e-03  
## 130 -3.50e-03 5.44e-03 1.23e-02 8.78e-03 -1.15e-03 1.04e-02 9.37e-03  
## 131 -1.14e-02 -2.03e-02 -1.90e-02 1.16e-02 1.78e-03 4.15e-03 -9.54e-03  
## 132 -5.62e-02 2.07e-02 8.55e-03 1.21e-02 2.60e-02 -3.67e-03 -2.22e-02  
## 133 6.54e-03 -2.36e-03 3.18e-04 -2.96e-03 -1.27e-03 -3.27e-03 -1.34e-03  
## 134 1.30e-02 -1.54e-02 1.01e-02 -4.40e-03 -4.19e-03 2.37e-02 -2.12e-02  
## 135 2.43e-02 -1.95e-02 6.30e-03 -5.62e-03 -8.63e-03 1.91e-02 7.90e-03  
## 136 1.18e-03 -2.42e-03 -7.03e-04 2.32e-03 1.45e-03 -1.74e-05 -3.32e-03  
## 137 -5.53e-03 -1.22e-02 -8.84e-03 8.61e-03 2.67e-03 1.99e-03 1.71e-02  
## 138 1.17e-03 2.81e-03 -2.43e-04 4.81e-04 2.21e-03 -6.51e-03 -1.35e-03  
## 139 2.51e-04 -7.37e-04 -2.18e-04 -1.68e-03 1.51e-03 -1.59e-03 -2.42e-04  
## 140 1.42e-02 1.09e-02 -2.10e-02 1.97e-02 -8.10e-03 4.43e-03 -1.19e-02  
## 141 -4.57e-03 2.61e-03 -7.52e-03 -1.17e-03 4.30e-03 1.52e-03 4.46e-03  
## 142 -2.74e-02 2.01e-02 5.05e-03 -9.03e-03 -7.91e-03 -5.57e-03 4.51e-02  
## 143 -8.76e-03 -8.02e-03 -8.93e-03 -8.83e-03 1.06e-02 -1.13e-02 2.22e-03  
## 144 -5.93e-03 4.87e-03 -3.96e-03 6.11e-03 1.10e-03 1.49e-03 9.12e-04  
## 145 1.27e-04 -6.97e-04 -1.62e-03 5.65e-04 -7.66e-04 -1.30e-03 8.66e-04  
## 146 -2.10e-04 -9.38e-04 -2.43e-04 2.48e-05 -1.08e-03 -1.01e-03 3.56e-04  
## 147 8.86e-04 4.33e-03 -5.32e-05 1.24e-03 3.00e-03 -8.76e-03 -4.09e-04  
## 148 1.25e-02 -1.80e-02 7.65e-03 -4.84e-03 -6.79e-03 1.92e-02 8.18e-03  
## 149 -6.85e-05 4.73e-03 9.03e-04 9.58e-03 -1.04e-02 4.76e-04 -1.73e-03  
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## 151 2.35e-02 -1.26e-02 -4.99e-04 -1.14e-02 -1.45e-02 9.42e-04 -9.45e-03  
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## 153 2.81e-03 -2.88e-03 -1.74e-03 6.10e-04 -3.97e-03 -3.40e-03 -5.92e-05  
## 154 -2.88e-03 -4.24e-03 -8.03e-04 3.35e-04 4.08e-03 -9.04e-04 -4.26e-04  
## 155 8.07e-03 -5.23e-03 4.18e-04 -4.86e-03 -4.94e-03 -5.98e-03 -9.35e-04  
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## 157 -4.70e-03 -1.77e-02 -1.62e-02 1.31e-02 2.41e-03 1.12e-03 -8.21e-03  
## 158 1.02e-03 2.14e-03 3.12e-04 -1.72e-03 -1.95e-03 -1.11e-03 2.15e-04  
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## 162 1.39e-02 1.65e-02 1.65e-02 3.01e-02 -2.21e-02 -3.95e-03 1.37e-03  
## 163 -2.31e-02 -1.90e-02 -1.32e-02 6.04e-03 4.27e-03 -3.66e-03 2.17e-02  
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## 165 2.57e-03 -3.53e-03 6.23e-04 -3.01e-03 -2.94e-03 -5.02e-03 2.74e-04  
## 166 2.17e-03 -2.35e-03 1.01e-03 3.11e-03 -4.27e-03 -7.13e-03 -1.15e-03  
## 167 1.30e-02 1.32e-02 9.90e-03 -5.27e-03 -2.66e-03 6.43e-03 -1.66e-02  
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## 169 -2.63e-05 -2.12e-02 -4.01e-02 2.36e-02 -1.44e-02 -4.43e-02 -3.08e-02  
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## 195 7.19e-04 -2.94e-03 -3.33e-04 6.79e-04 2.50e-03 -4.90e-03 -1.34e-03  
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## 198 7.11e-03 8.34e-03 -7.80e-03 1.06e-02 -1.76e-04 4.83e-03 -2.94e-03  
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## 217 3.95e-03 -4.39e-03 4.15e-05 1.49e-04 4.26e-03 -7.89e-03 -9.88e-03  
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## 227 1.05e-02 -5.67e-03 5.00e-04 -2.97e-03 -6.04e-03 2.52e-03 -2.30e-03  
## 228 4.92e-03 1.94e-02 9.96e-03 3.93e-02 -2.76e-02 1.19e-02 8.73e-03  
## 229 -3.20e-03 1.50e-02 -1.17e-02 1.11e-02 9.72e-04 7.84e-03 -5.50e-03  
## 230 2.59e-03 -1.51e-03 4.70e-05 -3.81e-04 -1.59e-03 -1.31e-03 -2.65e-03  
## 231 -3.57e-04 5.22e-03 -2.41e-03 5.70e-03 1.88e-03 -4.40e-03 -1.94e-04  
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## 266 -3.83e-03 3.32e-03 -3.59e-04 1.21e-04 3.20e-03 6.70e-04 5.21e-03  
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## 300 5.55e-03 1.53e-02 1.59e-03 -2.20e-02 3.43e-02 -3.24e-03 -1.67e-02  
## 301 -1.61e-03 1.09e-02 -4.47e-03 7.40e-03 4.33e-03 -6.03e-03 -4.54e-03  
## 302 -3.97e-04 5.91e-03 -1.23e-02 -4.71e-03 2.34e-03 -2.45e-03 5.36e-03  
## 303 7.05e-03 1.90e-02 -1.10e-02 6.61e-03 3.51e-03 1.57e-02 1.49e-02  
## 304 1.15e-04 3.55e-04 4.16e-05 4.56e-06 3.61e-04 -2.62e-04 -6.65e-04  
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## 306 5.28e-05 -2.01e-04 -5.15e-06 6.25e-05 1.77e-04 -2.40e-04 2.50e-04  
## 307 2.21e-02 -1.42e-02 -2.53e-02 1.98e-02 -9.13e-03 -3.39e-03 3.75e-03  
## 308 -1.97e-03 4.70e-03 1.11e-03 -2.90e-03 -4.63e-03 -7.88e-04 -7.09e-04  
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## 310 6.68e-03 5.15e-03 -1.12e-04 1.19e-02 -1.18e-02 2.23e-03 -1.05e-02  
## 311 1.60e-02 -6.56e-03 -1.64e-03 2.12e-03 3.07e-03 -1.42e-02 -2.81e-03  
## 312 6.78e-03 -1.23e-02 -7.03e-03 7.82e-03 2.71e-03 1.41e-02 1.42e-02  
## 313 2.01e-03 -5.23e-03 -2.24e-03 6.24e-03 2.40e-03 -4.24e-03 -6.64e-04  
## 314 -2.28e-02 -1.99e-02 3.88e-02 -3.50e-02 1.46e-02 -9.98e-03 2.19e-02  
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## 316 2.31e-03 4.84e-03 -1.43e-03 -7.51e-04 -5.57e-03 -2.47e-03 2.81e-05  
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## 318 -5.00e-02 2.88e-02 -4.20e-03 1.32e-02 2.97e-02 -7.22e-03 6.97e-03  
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## 321 -4.32e-02 2.82e-02 -7.93e-02 -4.29e-02 3.79e-03 -1.00e-02 5.95e-02  
## 322 2.55e-06 -1.04e-03 -2.20e-04 1.73e-05 -1.10e-03 1.14e-03 1.85e-03  
## 323 -7.80e-03 1.21e-02 -5.00e-03 3.23e-03 4.59e-03 -1.32e-02 -5.92e-03  
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## 325 3.12e-05 -2.09e-04 7.20e-05 -2.52e-04 -9.69e-05 -1.52e-04 -3.79e-04  
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## 328 1.60e-02 1.14e-02 -2.46e-02 -6.91e-03 3.61e-03 3.36e-03 -1.21e-02  
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## 357 5.27e-03 -1.21e-02 2.98e-02 1.03e-02 -2.60e-03 -3.29e-03 -2.62e-02  
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## 380 -2.01e-02 1.32e-02 -6.63e-03 7.80e-03 4.41e-03 2.17e-04 -1.80e-03  
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## 388 4.15e-03 -4.04e-03 -1.64e-03 3.65e-03 1.57e-03 3.42e-03 6.16e-03  
## 389 -1.19e-02 1.29e-02 -1.43e-02 1.41e-02 -4.24e-04 1.20e-02 -4.37e-03  
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## 437 7.90e-04 1.23e-03 -5.11e-04 -1.97e-03 1.96e-03 1.63e-04 1.81e-04  
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## 460 -2.37e-02 2.11e-02 -1.73e-02 7.31e-03 4.45e-03 -5.99e-03 -9.94e-03  
## 461 5.33e-03 4.50e-03 1.57e-03 6.88e-03 -9.78e-03 -4.42e-03 -1.16e-03  
## 462 2.15e-02 -1.10e-02 -9.28e-03 -2.00e-02 1.55e-02 1.09e-03 -8.12e-03  
## 463 -5.18e-03 -1.02e-02 5.89e-03 7.94e-03 1.31e-02 -6.56e-03 7.49e-03  
## 464 -6.43e-03 -9.95e-03 8.53e-03 -4.58e-03 -2.10e-03 -6.59e-03 8.30e-03  
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## 466 -8.58e-03 2.94e-03 -1.45e-03 3.74e-03 1.26e-03 7.00e-03 6.93e-03  
## 467 -8.83e-03 4.88e-03 1.13e-02 -4.19e-03 4.11e-03 -5.41e-03 3.63e-04  
## 468 -7.74e-03 4.90e-03 -3.77e-03 5.09e-04 -7.32e-03 -8.63e-04 1.65e-03  
## 469 5.29e-04 1.08e-03 -4.26e-04 -1.97e-03 1.86e-03 -9.93e-04 -3.73e-04  
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## 471 5.06e-04 -5.41e-03 1.47e-02 4.01e-03 3.82e-04 -4.20e-03 -3.89e-04  
## 472 1.95e-04 -1.69e-02 7.83e-03 -4.96e-03 -5.40e-03 1.09e-02 1.10e-02  
## 473 1.87e-02 1.49e-02 -1.11e-02 -3.00e-02 2.10e-02 4.13e-03 -1.34e-02  
## 474 5.48e-04 4.22e-03 -1.43e-03 -8.17e-03 6.53e-03 2.83e-03 -1.22e-03  
## 475 5.79e-04 1.38e-02 6.84e-03 1.38e-02 1.72e-02 3.85e-03 -1.55e-02  
## 476 1.25e-02 -1.58e-02 1.46e-02 -1.04e-02 -2.75e-03 -7.07e-03 5.68e-03  
## 477 1.44e-02 8.74e-03 2.44e-02 -2.34e-03 -1.57e-02 6.76e-03 -5.50e-03  
## 478 2.94e-02 -8.16e-03 5.78e-04 -7.80e-03 -8.99e-03 3.07e-03 -7.32e-03  
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## 480 2.56e-02 1.90e-02 3.18e-03 -3.02e-02 4.25e-02 3.88e-04 -2.52e-02  
## 481 -3.23e-04 1.63e-03 5.42e-04 -1.49e-03 -1.19e-03 -3.78e-03 3.89e-04  
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## 483 -2.28e-02 -1.97e-02 3.97e-02 1.72e-02 -8.54e-03 7.97e-03 2.19e-02  
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## 487 1.63e-02 -1.98e-02 -2.01e-02 1.32e-02 3.56e-03 1.65e-02 -1.64e-02  
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## 490 -2.87e-03 5.64e-03 -3.45e-03 6.76e-04 -7.46e-03 -9.23e-03 8.26e-04  
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## 492 1.97e-03 1.37e-02 1.25e-02 3.05e-02 -2.01e-02 3.41e-03 -1.66e-02  
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## 494 5.77e-03 5.96e-03 -8.79e-04 1.44e-03 3.34e-03 -8.59e-03 -1.68e-03  
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## 506 -9.61e-03 1.68e-02 -6.44e-03 2.93e-02 -4.28e-02 6.71e-03 -1.05e-02  
## 507 -7.75e-03 -1.21e-02 9.25e-03 2.37e-02 -1.51e-02 -7.58e-03 -8.61e-03  
## 508 -1.20e-03 1.40e-02 6.05e-03 1.28e-02 1.85e-02 8.00e-04 5.00e-03  
## 509 7.43e-03 -6.34e-03 -8.23e-04 1.53e-03 3.20e-03 -8.65e-03 -1.73e-03  
## 510 1.02e-03 1.13e-02 3.05e-02 -3.81e-03 -1.80e-02 -1.74e-04 1.28e-02  
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## 512 8.07e-03 9.81e-03 -1.82e-02 1.70e-02 -6.96e-03 5.49e-03 5.26e-03  
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## 514 1.38e-02 1.12e-02 -6.89e-03 8.05e-03 2.15e-03 7.14e-03 -5.34e-03  
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## 522 -1.18e-02 8.79e-03 -7.02e-03 -1.14e-03 -1.44e-02 3.17e-03 1.27e-03  
## 523 2.48e-02 1.70e-02 1.37e-02 -1.18e-02 -2.31e-03 6.85e-04 1.95e-03  
## 524 -5.21e-03 -1.45e-02 1.81e-02 2.20e-02 -1.61e-02 -4.85e-03 8.11e-03  
## 525 -1.01e-02 5.47e-03 -3.24e-03 6.51e-03 1.84e-03 2.61e-03 9.89e-03  
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## 534 2.50e-03 8.65e-03 7.94e-03 -3.58e-03 -1.26e-03 -1.09e-03 5.81e-03  
## 535 -9.36e-04 2.02e-02 -1.75e-02 1.17e-02 3.75e-03 1.04e-02 -1.46e-02  
## 536 -5.82e-03 -8.95e-03 -1.17e-02 -1.03e-02 9.22e-03 5.15e-03 1.35e-03  
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## 538 -5.84e-03 -6.39e-03 -6.79e-03 -6.51e-03 7.17e-03 -2.40e-03 1.09e-02  
## 539 -1.05e-03 9.81e-04 3.42e-06 6.97e-05 1.06e-03 4.12e-04 -9.03e-06  
## 540 -1.19e-03 1.15e-03 3.68e-04 -2.76e-04 1.50e-03 2.23e-03 -2.11e-04  
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## 542 7.44e-03 -6.27e-03 -7.95e-04 1.51e-03 3.17e-03 -8.60e-03 -1.79e-03  
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## 549 4.05e-03 4.57e-03 -9.34e-04 1.98e-03 2.46e-03 -8.96e-04 -1.12e-03  
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## 559 6.22e-04 1.05e-02 -2.24e-03 2.18e-03 4.22e-03 -7.35e-03 -5.69e-03  
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## 568 -4.35e-03 1.52e-02 1.46e-02 -1.40e-02 -6.83e-05 -9.94e-03 8.20e-03  
## 569 1.42e-03 -8.62e-03 -2.92e-03 3.69e-03 3.82e-03 -1.14e-02 1.28e-02  
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## 574 3.20e-02 -1.64e-02 3.22e-02 -2.30e-02 1.07e-02 8.16e-03 -1.42e-02  
## 575 -2.12e-04 -7.94e-04 2.96e-04 9.99e-04 -1.26e-03 -3.43e-04 -5.44e-05  
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## 577 -2.87e-02 1.73e-02 -1.31e-02 7.12e-03 3.98e-03 1.38e-03 2.20e-02  
## 578 7.33e-03 1.58e-02 2.57e-02 -1.84e-02 9.82e-03 3.23e-03 -7.63e-03  
## 579 1.14e-02 7.41e-03 -1.75e-03 1.84e-03 3.70e-03 -1.05e-02 -3.02e-03  
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## 581 1.85e-02 1.55e-02 8.01e-03 -4.87e-03 -5.72e-03 -4.69e-03 -1.93e-02  
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## 586 -3.57e-04 7.12e-04 -1.59e-04 7.33e-04 4.37e-04 3.05e-05 -1.48e-05  
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## 595 -4.38e-02 2.24e-02 5.61e-03 -1.07e-02 -8.34e-03 -8.46e-03 5.45e-02  
## 596 -2.19e-03 5.26e-03 -5.83e-05 2.59e-03 3.88e-03 -4.79e-03 7.95e-03  
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## 604 1.61e-02 -1.04e-02 -6.57e-03 1.09e-02 2.69e-03 -2.97e-03 -5.47e-03  
## 605 -2.38e-04 -3.13e-03 1.40e-03 3.15e-03 -4.73e-03 4.70e-04 4.17e-03  
## 606 4.22e-04 7.65e-04 2.11e-04 -2.93e-04 -6.86e-04 -3.37e-04 -3.75e-05  
## 607 2.46e-06 -1.51e-06 -5.39e-07 -3.45e-06 3.62e-06 -2.38e-06 -2.03e-07  
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## 610 6.14e-03 -1.92e-02 7.80e-03 1.89e-02 2.32e-02 2.61e-02 -2.97e-02  
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## 614 -1.19e-03 1.43e-03 -3.23e-04 1.59e-03 6.05e-04 -2.89e-04 -2.24e-03  
## 615 -1.01e-02 -1.23e-02 -5.26e-03 5.60e-03 3.69e-03 4.07e-04 -2.19e-02  
## 616 -1.69e-02 1.23e-02 -7.90e-03 4.60e-03 3.74e-03 -1.94e-02 1.99e-02  
## 617 -2.44e-03 -7.87e-03 1.60e-02 1.23e-02 -3.83e-03 -3.92e-03 -1.34e-03  
## 618 3.87e-03 -4.62e-03 -3.59e-03 5.60e-03 5.66e-04 4.24e-03 -8.46e-04  
## 619 3.25e-03 -1.70e-02 -1.60e-02 8.95e-03 3.77e-03 -6.49e-03 -1.10e-02  
## 620 -3.33e-03 1.45e-02 3.70e-02 -8.40e-03 -2.73e-02 -2.43e-02 1.98e-02  
## 621 -3.55e-03 -5.10e-03 -4.18e-03 6.51e-03 8.26e-04 5.53e-04 9.65e-04  
## 622 -1.34e-02 1.01e-02 -5.15e-03 -4.00e-03 -1.38e-02 9.09e-04 1.67e-02  
## 623 -8.37e-04 -1.80e-03 8.52e-05 9.33e-04 1.32e-03 -2.10e-03 3.70e-04  
## 624 -4.53e-02 2.63e-02 4.77e-03 -1.04e-02 -1.29e-02 3.88e-02 6.64e-03  
## 625 6.94e-03 -1.56e-02 -1.43e-02 -2.81e-02 1.93e-02 1.18e-02 1.74e-02  
## 626 -5.18e-03 1.41e-02 -1.51e-02 -2.42e-02 1.78e-02 3.56e-03 -5.98e-03  
## 627 -4.63e-03 -8.06e-03 1.37e-02 -5.39e-03 4.70e-03 -5.22e-03 -5.42e-04  
## 628 -4.53e-03 -3.31e-03 7.15e-03 5.40e-03 -1.01e-03 -3.41e-03 8.25e-04  
## 629 1.89e-02 -1.95e-02 -3.36e-02 2.09e-02 -1.14e-02 -1.56e-03 3.80e-03  
## 630 -3.51e-02 -1.96e-02 -4.33e-02 -8.23e-04 3.82e-02 -1.83e-03 1.16e-02  
## 631 1.07e-03 -4.57e-03 -3.43e-03 -6.53e-03 6.11e-03 3.81e-03 -7.46e-03  
## 632 -5.76e-03 -5.64e-03 -2.63e-04 -8.16e-04 5.94e-03 2.84e-03 8.16e-03  
## 633 4.11e-04 3.93e-03 -2.03e-04 1.50e-03 2.67e-03 -5.28e-03 -1.24e-04  
## 634 3.79e-03 -6.17e-03 -2.35e-03 5.67e-03 2.48e-03 1.69e-03 1.01e-02  
## 635 -1.88e-02 2.53e-02 1.99e-02 -1.93e-03 3.70e-02 -1.37e-03 4.22e-03  
## 636 -1.13e-02 9.32e-03 -2.94e-03 7.78e-03 3.86e-03 -6.14e-03 1.32e-02  
## 637 -3.12e-04 5.28e-03 2.12e-03 5.91e-03 -8.33e-03 -6.29e-04 6.52e-03  
## 638 -7.67e-03 -2.26e-02 -5.23e-02 -7.12e-03 4.32e-02 1.84e-02 4.49e-03  
## 639 4.46e-03 -1.11e-02 1.25e-02 2.05e-02 -1.28e-02 2.80e-04 5.55e-03  
## 640 -2.53e-04 -2.29e-03 1.51e-04 5.71e-05 2.08e-03 -4.42e-03 2.48e-03  
## 641 1.41e-02 2.88e-02 5.75e-03 1.07e-02 3.09e-02 -2.88e-02 1.09e-03  
## 642 2.23e-03 -9.60e-03 7.05e-03 -3.33e-03 -2.29e-03 -5.16e-03 -7.18e-03  
## 643 -6.64e-03 -1.04e-02 2.17e-02 1.45e-02 -4.31e-03 -2.43e-04 1.37e-02  
## 644 1.91e-02 -7.42e-03 -1.36e-03 -5.79e-03 -8.27e-03 -6.09e-03 -1.37e-02  
## 645 1.49e-03 -9.95e-03 -1.68e-02 1.41e-02 -6.29e-03 -1.58e-03 6.83e-03  
## 646 1.58e-02 -1.74e-02 7.45e-03 -4.40e-03 -6.86e-03 1.54e-02 8.03e-03  
## 647 2.34e-03 3.84e-03 -5.87e-04 -1.11e-03 -4.89e-03 2.40e-03 -7.28e-03  
## 648 2.56e-03 9.37e-03 -2.07e-02 -6.96e-03 3.05e-03 -2.82e-03 7.78e-03  
## 649 -3.49e-02 1.39e-02 3.25e-02 1.35e-02 -4.89e-03 2.98e-03 2.01e-02  
## 650 1.20e-02 1.33e-02 9.79e-03 -5.14e-03 -2.82e-03 7.83e-03 -1.59e-02  
## 651 9.20e-03 1.31e-02 8.89e-03 -4.23e-03 -2.72e-03 -2.80e-03 -1.24e-02  
## 652 8.16e-05 -1.84e-04 -4.15e-05 1.12e-04 1.47e-04 8.57e-06 -6.93e-05  
## 653 8.94e-03 -6.61e-03 -2.08e-03 3.31e-03 2.85e-03 -1.28e-03 -1.17e-02  
## 654 -2.92e-02 2.55e-02 -6.83e-02 -1.63e-02 1.21e-03 2.77e-02 9.04e-03  
## 655 7.53e-03 1.99e-02 -1.16e-02 8.48e-03 4.25e-03 1.66e-02 1.61e-02  
## 656 -5.84e-03 -3.50e-03 9.26e-05 -2.93e-04 3.67e-03 1.91e-03 5.59e-03  
## 657 2.92e-03 2.17e-03 -1.13e-03 -2.83e-03 3.14e-03 2.63e-05 -8.38e-04  
## 658 -1.79e-02 -2.69e-02 -6.33e-03 2.85e-02 2.29e-02 6.39e-02 2.48e-04  
## 659 3.50e-03 2.46e-03 -1.35e-03 -4.01e-03 3.64e-03 2.40e-03 -1.81e-04  
## 660 2.40e-02 1.96e-02 1.02e-02 -4.96e-03 -5.30e-03 2.65e-02 -2.68e-02  
## 661 -1.29e-02 -1.14e-02 -3.46e-03 3.85e-03 3.86e-03 -1.99e-03 -2.81e-03  
## 662 5.81e-03 5.88e-03 -8.45e-04 1.42e-03 3.30e-03 -8.54e-03 -1.75e-03  
## 663 -7.66e-05 2.05e-04 -4.51e-05 -8.12e-06 -2.18e-04 7.71e-05 -2.89e-04  
## 664 -5.62e-04 3.01e-03 -3.39e-04 6.34e-04 2.53e-03 -3.67e-03 -1.36e-03  
## 665 -1.43e-02 -1.93e-02 -1.32e-02 6.73e-03 3.83e-03 4.90e-03 1.88e-02  
## 666 2.60e-02 1.50e-02 8.86e-03 -4.69e-03 -4.04e-03 1.98e-03 -1.84e-02  
## 667 -7.28e-03 7.71e-03 -6.56e-03 7.97e-03 1.27e-03 1.43e-02 1.33e-02  
## 668 2.45e-02 2.24e-02 6.42e-03 -5.98e-03 -7.90e-03 1.19e-02 6.01e-03  
## 669 8.26e-05 4.15e-04 2.45e-04 4.51e-04 -6.10e-04 -3.20e-04 -7.56e-04  
## 670 7.56e-04 -4.93e-04 -4.87e-05 -1.41e-04 -5.09e-04 7.94e-04 6.91e-05  
## 671 -3.89e-05 -7.47e-04 -2.14e-06 1.81e-04 6.54e-04 -5.77e-04 8.62e-04  
## 672 1.14e-02 1.06e-02 8.68e-03 -3.65e-03 -2.09e-03 9.55e-04 4.91e-03  
## 673 1.45e-02 7.34e-03 -3.25e-03 4.31e-03 2.79e-03 -8.83e-04 -1.37e-02  
## 674 4.85e-03 -1.92e-02 -4.22e-02 -2.60e-02 6.93e-03 -3.64e-02 -2.54e-02  
## 675 -4.05e-03 4.54e-03 1.10e-02 7.70e-03 -1.34e-03 -5.40e-03 3.93e-04  
## 676 1.27e-03 -1.41e-03 -4.81e-04 1.42e-03 6.92e-04 1.58e-03 -2.10e-03  
## 677 8.74e-03 1.68e-02 1.01e-02 -4.88e-03 -3.85e-03 2.29e-02 -2.13e-02  
## 678 1.21e-02 2.37e-02 -1.93e-02 1.07e-02 5.93e-03 2.96e-02 -1.99e-02  
## 679 -1.18e-02 1.01e-02 -1.18e-02 -1.43e-02 1.19e-02 6.38e-04 6.65e-04  
## 680 1.28e-02 -1.31e-02 5.74e-03 1.28e-02 1.66e-02 -1.21e-04 -1.53e-02  
## 681 -1.58e-04 3.35e-04 -9.05e-06 2.02e-05 3.59e-04 6.35e-05 -1.01e-05  
## 682 1.65e-02 1.10e-02 -1.29e-03 3.13e-03 5.07e-03 -1.64e-03 -7.57e-03  
## 683 2.12e-03 -1.36e-02 3.02e-02 1.76e-02 -5.51e-03 -3.13e-03 -6.55e-03  
## 684 -3.63e-02 -1.88e-02 -1.10e-02 5.19e-03 5.08e-03 1.34e-03 2.35e-02  
## 685 2.93e-03 -1.13e-02 -2.33e-03 2.40e-03 4.02e-03 -7.26e-03 -5.40e-03  
## 686 3.12e-03 2.73e-03 -1.19e-03 2.71e-03 1.20e-03 3.43e-03 -4.17e-03  
## 687 -7.64e-04 -1.97e-02 -5.09e-02 -1.14e-02 2.06e-03 1.70e-02 1.25e-02  
## 688 -1.41e-02 4.69e-03 -2.99e-03 4.74e-03 2.25e-03 8.89e-03 1.03e-02  
## 689 -1.60e-02 1.03e-02 -1.03e-02 1.20e-02 1.62e-04 7.61e-03 -1.06e-03  
## 690 1.16e-02 7.69e-03 -1.84e-03 1.81e-03 3.82e-03 -1.14e-02 -2.91e-03  
## 691 9.26e-03 5.01e-03 -3.06e-04 -2.29e-03 -4.84e-03 -2.08e-03 -8.56e-03  
## 692 -1.43e-04 -4.80e-04 -1.33e-04 -1.02e-03 1.02e-03 -7.72e-04 -1.02e-04  
## 693 8.69e-03 1.12e-02 9.63e-03 -4.75e-03 -1.97e-03 5.43e-03 5.03e-03  
## 694 4.02e-03 -6.39e-03 1.70e-02 5.21e-03 9.88e-05 -2.74e-03 -1.13e-03  
## 695 1.60e-02 -7.93e-03 -3.84e-03 -1.73e-02 1.22e-02 -1.38e-02 -2.52e-03  
## 696 -1.12e-03 -1.43e-03 9.12e-04 1.41e-03 -1.99e-03 1.08e-03 2.18e-03  
## 697 -9.05e-03 -1.89e-02 3.53e-03 1.94e-02 2.37e-02 1.86e-02 1.06e-02  
## 698 -1.11e-02 1.00e-02 2.45e-02 2.31e-04 -1.81e-02 -4.75e-03 1.56e-02  
## 699 9.05e-04 -3.79e-03 6.04e-05 -2.36e-04 4.29e-03 -1.78e-03 4.52e-03  
## 700 -1.03e-03 1.53e-03 -4.17e-04 9.55e-05 -1.87e-03 -5.54e-05 -2.41e-03  
## 701 -2.25e-02 1.33e-02 -1.17e-02 1.21e-02 2.59e-03 1.08e-02 -3.90e-03  
## 702 -1.73e-02 1.68e-02 -1.67e-02 1.32e-02 9.48e-04 8.01e-03 -6.09e-03  
## 703 1.35e-02 -7.92e-03 -1.88e-03 2.05e-03 3.65e-03 -1.07e-02 -2.76e-03  
## 704 -6.45e-03 9.67e-03 -3.30e-03 2.77e-03 4.70e-03 -4.51e-03 -4.98e-03  
## 705 -5.26e-03 1.83e-02 1.44e-02 -1.40e-02 -4.94e-03 -6.15e-03 -2.46e-02  
## 706 2.57e-03 3.33e-03 3.25e-04 -3.66e-03 -1.88e-03 -4.77e-03 -8.57e-04  
## 707 5.56e-03 1.72e-02 3.50e-02 1.69e-02 -4.18e-03 -8.21e-03 -8.98e-03  
## 708 -1.12e-02 1.32e-02 -1.43e-02 -2.27e-02 1.59e-02 2.80e-03 1.78e-02  
## 709 1.91e-02 9.81e-03 -3.74e-03 -4.63e-03 -1.23e-02 4.98e-03 -2.26e-02  
## 710 -2.54e-02 -2.50e-02 3.46e-03 -6.02e-03 -1.41e-02 3.67e-02 7.98e-03  
## 711 -2.90e-03 -1.44e-02 -1.17e-02 -2.63e-02 1.72e-02 9.21e-03 1.74e-02  
## 712 3.53e-04 -8.88e-04 -3.03e-04 1.02e-03 4.99e-04 1.13e-03 -1.18e-03  
## 713 3.95e-03 -1.44e-02 -1.65e-03 2.39e-02 -3.41e-02 1.21e-02 -4.93e-03  
## 714 7.46e-04 -1.13e-03 6.41e-04 1.36e-03 -1.97e-03 -3.27e-03 1.28e-03  
## 715 -3.93e-03 1.12e-02 -9.69e-03 1.17e-02 1.58e-03 4.71e-03 -2.50e-03  
## 716 1.31e-04 5.40e-04 3.21e-04 5.77e-04 -7.87e-04 -4.17e-04 -9.98e-04  
## 717 -1.20e-02 1.66e-02 -1.65e-02 1.39e-02 4.17e-04 4.47e-03 -4.94e-03  
## 718 7.71e-03 -1.45e-02 -1.02e-02 1.00e-02 2.34e-03 5.22e-03 1.65e-02  
## 719 -1.28e-02 8.60e-03 1.52e-02 -7.50e-03 4.18e-03 5.68e-03 9.64e-05  
## 720 2.47e-03 3.82e-03 8.86e-04 -4.05e-03 -3.27e-03 -9.04e-03 2.24e-05  
## 721 1.00e-03 -2.93e-03 -2.71e-04 5.93e-04 2.54e-03 -5.29e-03 -1.55e-03  
## 722 -5.92e-04 9.95e-03 6.72e-03 8.57e-03 1.39e-02 9.20e-04 4.98e-03  
## 723 1.29e-02 -1.83e-02 7.87e-03 -5.43e-03 -6.83e-03 1.76e-02 8.28e-03  
## 724 4.88e-03 -1.23e-02 -2.09e-02 1.57e-02 -7.36e-03 -2.96e-03 6.86e-03  
## 725 1.32e-02 8.85e-03 2.11e-02 -1.59e-02 8.79e-03 -1.03e-02 -3.29e-03  
## 726 -9.46e-04 -3.63e-03 -3.48e-04 2.23e-03 2.50e-03 -4.34e-03 -4.76e-03  
## 727 -5.94e-03 -2.00e-02 -9.58e-03 -1.75e-02 -2.46e-02 1.74e-03 2.23e-02  
## 728 -2.60e-03 1.83e-02 -4.07e-02 -2.19e-02 6.56e-03 -8.28e-03 7.75e-03  
## 729 -1.44e-05 -4.14e-04 1.57e-04 -5.33e-04 -1.51e-04 -8.92e-05 6.70e-04  
## 730 1.02e-02 2.22e-02 1.69e-02 -2.02e-02 -1.02e-04 -1.97e-02 1.85e-03  
## 731 5.27e-03 5.61e-03 -9.27e-04 1.66e-03 3.10e-03 -6.01e-03 -1.50e-03  
## 732 -9.65e-03 1.31e-02 -7.75e-03 -8.99e-03 -1.73e-02 4.62e-03 1.83e-02  
## 733 -9.75e-04 -4.07e-04 -1.42e-04 5.79e-05 -4.63e-04 -2.32e-04 3.00e-04  
## 734 -1.80e-04 -1.52e-02 -1.74e-02 -2.42e-02 1.70e-02 6.79e-04 -5.72e-03  
## 735 1.08e-03 9.71e-03 -4.55e-03 -5.32e-03 -1.36e-02 4.79e-03 1.50e-02  
## 736 7.06e-03 -1.16e-02 -7.20e-03 1.06e-02 3.26e-03 1.00e-03 -5.34e-03  
## 737 3.07e-03 -2.96e-03 1.79e-03 3.08e-03 -4.10e-03 2.41e-03 -5.94e-03  
## 738 -1.18e-02 1.37e-02 2.61e-02 1.69e-02 -6.15e-03 3.25e-03 -4.28e-03  
## 739 -3.45e-03 2.02e-03 -5.04e-03 1.39e-03 -1.90e-03 2.26e-03 3.49e-03  
## 740 -4.60e-04 -1.55e-03 -2.16e-04 1.50e-03 7.74e-04 6.80e-04 -2.33e-03  
## 741 3.46e-03 -1.63e-02 -1.06e-02 6.65e-03 4.71e-03 5.96e-03 1.66e-02  
## 742 -2.86e-03 -1.39e-02 9.15e-03 -7.28e-03 -3.87e-03 -9.73e-03 9.52e-03  
## 743 1.63e-04 -3.49e-04 -3.20e-05 -5.47e-05 -3.13e-04 5.65e-04 -4.18e-04  
## 744 -2.40e-03 -1.23e-02 -4.82e-03 4.06e-03 3.83e-03 -1.17e-02 -5.44e-03  
## 745 -1.78e-03 -4.45e-03 8.70e-03 -2.82e-03 2.98e-03 -7.03e-03 7.00e-04  
## 746 4.14e-04 8.31e-04 2.08e-03 4.16e-04 -1.46e-03 -1.54e-03 1.06e-04  
## 747 -2.82e-02 -1.99e-02 4.31e-02 1.23e-02 -5.49e-03 4.95e-03 1.91e-02  
## 748 4.29e-04 -6.40e-04 2.08e-04 1.01e-03 -1.18e-03 -7.34e-04 -2.20e-04  
## 749 -4.90e-03 -4.99e-03 -2.71e-03 5.68e-03 6.51e-04 1.29e-03 7.86e-03  
## 750 3.56e-03 -7.16e-03 -3.04e-03 4.44e-03 2.71e-03 5.29e-03 -2.33e-03  
## 751 -1.76e-03 -2.47e-03 2.94e-04 -2.52e-04 2.63e-03 3.03e-05 -1.38e-04  
## 752 2.37e-02 9.77e-03 1.51e-04 -8.15e-03 -1.06e-02 2.36e-04 -6.48e-03  
## 753 9.69e-03 -1.51e-02 -1.33e-02 -3.45e-02 2.53e-02 7.06e-03 1.64e-02  
## 754 -3.03e-03 -1.01e-02 -1.99e-02 -1.03e-02 4.44e-03 -7.46e-03 9.60e-03  
## 755 1.70e-03 -2.95e-03 5.01e-04 -3.49e-03 -1.94e-03 -7.06e-03 -1.20e-03  
## 756 7.12e-03 -6.18e-03 -8.52e-04 1.64e-03 3.09e-03 -7.33e-03 -1.63e-03  
## 757 -5.34e-03 1.47e-02 5.57e-03 -2.59e-02 3.67e-02 -4.17e-03 -1.66e-02  
## 758 1.08e-03 1.38e-03 4.25e-04 -1.49e-04 1.69e-03 1.40e-03 -8.99e-04  
## 759 5.73e-03 6.05e-03 -9.18e-04 1.47e-03 3.38e-03 -8.65e-03 -1.60e-03  
## 760 1.37e-02 1.55e-02 1.08e-02 -9.91e-03 -2.84e-03 -1.34e-02 -1.66e-02  
## 761 1.62e-02 -1.31e-02 1.25e-02 2.74e-02 -1.71e-02 5.62e-03 -1.59e-02  
## 762 2.06e-03 5.74e-03 -3.97e-04 -5.24e-04 5.89e-03 -2.24e-03 5.59e-03  
## 763 1.96e-03 -2.67e-03 -2.55e-04 5.37e-04 2.37e-03 -7.42e-03 -1.42e-03  
## 764 -1.36e-02 -1.63e-02 -9.23e-03 6.08e-03 4.65e-03 -8.23e-03 2.15e-02  
## 765 -1.42e-02 1.65e-02 -1.50e-02 1.02e-02 3.33e-03 1.12e-02 -7.49e-03  
## 766 1.77e-03 3.01e-03 -2.46e-04 1.42e-03 1.83e-03 -4.55e-03 -2.20e-05  
## 767 -1.42e-02 9.32e-03 -6.40e-03 7.76e-03 1.37e-03 1.14e-02 1.46e-02  
## 768 4.11e-04 7.15e-03 -3.07e-03 -1.30e-02 1.13e-02 -2.86e-03 -2.26e-03  
## 769 1.12e-02 6.50e-03 -1.86e-03 2.58e-03 2.89e-03 -6.27e-03 -2.08e-03  
## 770 1.14e-03 -1.09e-02 9.71e-03 -6.49e-03 -1.63e-03 -5.13e-03 7.88e-03  
## 771 -3.09e-02 2.64e-02 3.44e-03 -6.36e-03 -1.33e-02 3.60e-02 7.17e-03  
## 772 -1.27e-02 1.26e-02 1.23e-02 2.68e-02 -1.75e-02 -8.22e-03 -1.08e-02  
## 773 1.23e-02 -1.68e-02 1.68e-02 2.64e-02 -2.18e-02 -1.16e-03 -2.16e-02  
## 774 -2.54e-04 -2.44e-03 -2.49e-03 -2.15e-03 3.17e-03 -4.54e-03 6.61e-04  
## 775 -1.89e-03 -1.37e-02 -4.20e-03 -1.30e-02 -1.52e-02 -1.43e-02 1.83e-02  
## 776 6.02e-03 -1.19e-02 9.91e-03 -4.13e-03 -2.81e-03 4.33e-04 5.78e-03  
## 777 4.36e-03 -4.13e-03 -4.15e-03 -5.12e-03 5.28e-03 -1.54e-03 1.55e-04  
## 778 2.51e-02 -1.93e-02 6.44e-03 -5.58e-03 -8.44e-03 1.85e-02 6.94e-03  
## 779 -6.16e-05 -2.07e-03 4.15e-05 2.69e-05 2.27e-03 -8.84e-04 -2.53e-04  
## 780 -7.31e-03 -1.13e-02 -7.22e-04 -1.01e-02 -1.14e-02 -7.82e-03 -2.50e-03  
## 781 6.64e-03 5.72e-03 -1.03e-03 -3.61e-03 -6.16e-03 1.18e-03 -2.00e-03  
## 782 -2.89e-03 2.06e-02 4.74e-03 -4.45e-03 -7.15e-03 1.19e-02 7.93e-03  
## 783 4.60e-05 -2.18e-04 -8.40e-06 -4.81e-04 4.67e-04 -4.05e-04 -4.25e-04  
## 784 -1.31e-02 1.88e-02 -4.12e-02 -2.83e-02 6.54e-03 7.03e-04 9.56e-03  
## 785 4.93e-03 -2.68e-03 2.96e-04 -2.17e-04 2.87e-03 -1.65e-03 2.72e-03  
## 786 9.23e-03 -5.66e-03 -3.76e-03 -9.88e-03 8.09e-03 2.20e-03 -1.10e-02  
## 787 1.20e-02 -7.55e-03 -7.78e-04 -4.30e-03 -7.74e-03 -1.81e-03 -1.63e-02  
## 788 1.47e-03 -6.35e-03 1.05e-03 -8.58e-03 -3.20e-03 -3.80e-03 8.24e-03  
## 789 3.64e-05 3.02e-04 -8.34e-06 2.91e-05 2.99e-04 -1.52e-04 -5.78e-04  
## 790 8.41e-04 1.11e-03 -6.95e-04 1.51e-03 2.76e-04 1.09e-03 -1.84e-03  
## 791 2.33e-03 -3.79e-03 9.05e-04 -3.41e-03 -2.90e-03 -9.55e-03 5.07e-04  
## 792 -7.99e-05 3.96e-04 -2.41e-04 -7.55e-04 7.36e-04 1.08e-04 4.37e-05  
## 793 -5.98e-03 -1.56e-02 -8.35e-03 6.18e-03 4.59e-03 -1.43e-02 1.94e-02  
## 794 1.80e-02 1.27e-02 -6.43e-03 -2.66e-02 1.77e-02 -1.76e-03 -9.62e-03  
## 795 -2.36e-02 1.04e-02 -5.73e-03 7.96e-03 3.13e-03 -1.91e-03 1.88e-03  
## 796 1.88e-02 -6.34e-03 -1.43e-03 -4.42e-03 -7.50e-03 -5.02e-03 -1.18e-02  
## 797 9.55e-03 -5.37e-03 5.05e-04 -5.33e-03 -5.18e-03 -9.59e-03 -1.03e-03  
## 798 2.36e-02 -2.07e-02 2.06e-02 -3.02e-02 -1.54e-03 2.68e-03 4.32e-03  
## 799 -2.42e-02 -7.85e-03 1.36e-02 -5.54e-03 5.23e-03 -5.10e-03 4.42e-03  
## 800 -9.73e-03 1.08e-02 8.07e-03 -5.72e-03 -1.96e-03 -8.58e-03 9.20e-03  
## 801 1.15e-03 2.33e-03 -1.20e-05 -1.11e-03 -2.03e-03 -1.17e-04 -3.31e-03  
## 802 -2.34e-04 -1.90e-03 -7.17e-04 -2.90e-03 3.15e-03 -6.92e-04 6.18e-05  
## 803 3.20e-03 -1.30e-02 9.35e-03 -4.91e-03 -3.99e-03 -5.85e-03 -1.14e-02  
## 804 -3.23e-04 -2.24e-03 -7.13e-04 4.12e-04 -2.59e-03 -5.92e-04 -2.73e-03  
## 805 3.99e-04 6.09e-03 -1.26e-03 3.20e-03 2.24e-03 1.54e-03 -2.64e-03  
## 806 -3.61e-04 1.50e-03 -1.15e-03 -1.41e-03 1.93e-03 -1.96e-03 3.02e-04  
## 807 -3.68e-03 -1.65e-02 2.07e-02 2.36e-02 -1.85e-02 -4.09e-03 6.19e-03  
## 808 1.87e-02 -1.28e-02 9.08e-03 -3.79e-03 -3.31e-03 3.14e-03 -1.46e-02  
## 809 -2.65e-04 -2.30e-02 2.16e-02 -3.03e-02 -2.32e-03 1.33e-02 6.34e-03  
## 810 3.40e-02 -2.96e-02 1.57e-02 -4.15e-02 -8.03e-03 2.93e-02 -9.28e-03  
## 811 7.03e-05 -1.26e-03 -5.31e-04 -1.92e-03 2.16e-03 -6.69e-05 -1.55e-03  
## 812 -6.99e-03 4.69e-03 -7.79e-04 -2.55e-03 -4.90e-03 -1.35e-03 9.68e-03  
## 813 8.56e-03 6.70e-03 1.80e-02 4.22e-03 -2.43e-04 -1.15e-02 -2.47e-03  
## 814 -1.61e-02 -1.91e-02 -1.63e-02 1.29e-02 2.68e-03 1.25e-02 -7.37e-03  
## 815 2.26e-03 1.08e-02 8.31e-03 -4.07e-03 -1.64e-03 -7.29e-03 -9.40e-03  
## 816 5.57e-03 -5.31e-03 -2.06e-03 -5.90e-04 -7.13e-03 -1.50e-03 7.32e-03  
## 817 -2.70e-02 -1.54e-02 1.48e-02 2.45e-02 -1.73e-02 -1.17e-02 1.16e-02  
## 818 3.82e-05 -3.53e-05 2.54e-05 3.67e-05 -4.81e-05 1.62e-05 -1.41e-05  
## 819 5.06e-03 -9.50e-03 -1.00e-02 -1.03e-02 8.58e-03 4.16e-04 -1.20e-03  
## 820 9.58e-04 8.73e-04 1.62e-04 -2.74e-04 -8.30e-04 -4.84e-04 -1.46e-04  
## 821 -1.41e-03 1.14e-02 -1.03e-02 1.30e-02 1.93e-03 -1.61e-03 -4.85e-03  
## 822 1.67e-02 1.15e-02 -2.64e-03 4.06e-03 4.39e-03 -8.57e-04 -9.76e-03  
## 823 2.65e-04 -8.65e-04 -3.20e-04 1.03e-03 4.74e-04 1.47e-03 -1.09e-03  
## 824 -1.79e-02 1.55e-02 8.51e-03 1.07e-02 2.02e-02 -5.18e-03 -1.45e-02  
## 825 -2.91e-03 -7.88e-03 -1.26e-02 1.15e-02 -4.91e-03 1.53e-03 5.89e-03  
## 826 1.14e-02 -6.48e-03 -5.10e-04 -5.07e-03 -6.58e-03 -3.95e-03 -1.08e-02  
## 827 4.07e-02 -2.42e-02 1.26e-02 2.25e-03 3.39e-02 -6.24e-03 -4.85e-02  
## 828 5.04e-03 8.21e-03 -2.52e-03 -5.22e-03 -1.11e-02 8.70e-03 1.25e-02  
## 829 -1.27e-02 2.47e-02 2.00e-02 3.43e-02 -3.56e-02 1.16e-02 2.46e-03  
## 830 1.17e-04 5.32e-04 3.78e-05 -2.32e-04 -4.40e-04 -2.68e-04 -6.58e-04  
## 831 -7.66e-03 6.01e-03 -2.07e-04 -3.18e-05 6.74e-03 -6.85e-03 -1.43e-04  
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## 833 8.00e-03 1.02e-02 -2.23e-02 -6.82e-03 2.87e-03 -1.06e-03 -8.69e-03  
## 834 2.17e-03 8.22e-03 1.81e-02 1.87e-03 -1.66e-02 2.19e-03 -1.93e-03  
## 835 -1.18e-03 -3.02e-03 -1.80e-04 3.70e-04 3.69e-03 -3.13e-03 -4.48e-04  
## 836 2.74e-02 -1.88e-02 6.00e-03 -4.83e-03 -8.71e-03 1.62e-02 7.85e-03  
## 837 1.36e-02 6.00e-03 -1.70e-03 4.86e-03 1.71e-03 6.85e-03 -4.35e-03  
## 838 4.91e-04 -7.98e-04 6.04e-05 -7.02e-04 -5.67e-04 -4.33e-04 -2.74e-04  
## 839 1.91e-02 2.04e-02 -3.76e-02 -2.91e-02 9.24e-03 3.97e-03 4.21e-03  
## 840 -2.71e-03 -3.75e-03 -3.61e-03 -3.21e-03 4.59e-03 -5.58e-03 1.18e-03  
## 841 -3.93e-02 2.90e-02 -5.04e-03 2.40e-02 2.63e-02 5.79e-02 -1.48e-03  
## 842 -1.79e-03 -1.05e-02 -5.77e-03 5.11e-03 3.37e-03 -1.16e-02 1.67e-02  
## 843 2.39e-03 -9.52e-03 7.02e-03 -3.31e-03 -2.25e-03 -5.22e-03 -7.25e-03  
## 844 2.23e-03 -3.19e-03 5.11e-04 -2.56e-03 -2.68e-03 -3.39e-03 2.92e-04  
## 845 -4.54e-03 3.12e-03 4.92e-04 -4.26e-03 -1.50e-03 -4.97e-05 2.89e-04  
## 846 -2.09e-03 -4.85e-03 7.04e-04 -4.27e-03 -4.63e-03 -8.09e-03 8.71e-03  
## 847 -4.01e-03 -3.32e-03 1.76e-03 3.16e-03 -4.70e-03 2.53e-03 4.69e-03  
## 848 -6.94e-03 5.60e-03 -2.70e-04 -8.66e-04 5.86e-03 2.39e-03 7.83e-03  
## 849 -7.63e-04 8.94e-04 3.07e-04 -2.19e-04 1.18e-03 1.89e-03 -2.86e-04  
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## 851 1.01e-02 7.70e-03 -2.07e-03 2.38e-03 3.92e-03 -1.10e-02 -1.50e-02  
## 852 1.68e-02 -9.83e-03 -1.26e-03 3.35e-03 4.83e-03 8.46e-04 -7.23e-03  
## 853 1.65e-03 2.87e-03 4.87e-04 -3.34e-03 -1.75e-03 -7.34e-03 -1.33e-03  
## 854 1.96e-02 2.60e-02 1.04e-02 -5.72e-02 5.88e-02 6.85e-03 -8.48e-04  
## 855 5.70e-04 -4.20e-03 8.46e-04 -5.78e-03 -2.05e-03 8.36e-04 5.48e-03  
## 856 1.05e-02 -2.06e-02 7.07e-03 -5.38e-03 -9.61e-03 1.57e-02 9.46e-03  
## 857 -6.16e-04 -6.93e-04 -5.42e-04 -8.14e-04 9.30e-04 1.44e-04 2.47e-04  
## 858 -1.33e-03 -1.92e-03 2.45e-04 -9.47e-05 2.00e-03 -1.33e-03 -3.58e-03  
## 859 7.49e-04 2.10e-03 -2.62e-04 1.30e-03 1.29e-03 -5.13e-04 3.72e-05  
## 860 -2.93e-03 2.05e-03 -8.14e-04 2.31e-04 -2.58e-03 -1.96e-03 7.76e-04  
## 861 1.33e-02 -1.56e-02 -2.90e-02 2.43e-02 -1.17e-02 -1.06e-03 -1.67e-02  
## 862 -6.65e-03 9.41e-03 7.98e-03 -4.04e-03 -2.60e-03 -7.65e-03 -7.16e-03  
## 863 1.54e-03 -1.23e-02 1.15e-02 -8.77e-03 -1.31e-03 -4.33e-03 7.26e-03  
## 864 2.14e-03 -1.50e-02 1.17e-02 3.14e-02 -1.96e-02 -6.05e-03 -1.54e-02  
## 865 -5.81e-03 3.38e-03 -2.11e-03 -4.53e-03 5.32e-03 3.08e-03 7.13e-03  
## 866 1.28e-02 -7.65e-03 -1.90e-03 2.27e-03 3.46e-03 -8.37e-03 -2.56e-03  
## 867 6.08e-02 -2.14e-02 2.54e-02 2.82e-02 -2.75e-02 6.01e-04 -8.02e-03  
## 868 2.43e-03 6.12e-03 2.25e-03 9.16e-03 -1.14e-02 -1.73e-02 -9.21e-03  
## 869 -1.22e-04 -3.45e-04 -2.58e-04 -3.30e-04 4.67e-04 -4.00e-04 1.16e-04  
## 870 2.70e-04 6.57e-03 -3.90e-03 -4.87e-04 -9.21e-03 -1.54e-03 9.37e-03  
## 871 2.07e-03 -3.25e-03 -1.09e-03 -7.87e-03 6.55e-03 -8.95e-03 -1.58e-03  
## 872 7.70e-04 2.41e-02 1.98e-02 -2.51e-02 -3.35e-03 -5.25e-02 -3.40e-02  
## 873 -1.49e-02 8.36e-03 -1.65e-03 2.03e-02 -2.02e-02 -1.09e-02 8.42e-04  
## 874 -6.17e-03 -1.58e-02 -8.81e-03 5.13e-03 4.78e-03 -2.39e-02 2.03e-02  
## 875 -2.18e-02 1.65e-02 7.55e-03 -1.02e-02 -4.96e-03 -2.47e-02 -1.46e-02  
## 876 1.41e-03 -2.22e-03 3.59e-04 4.75e-03 -4.77e-03 2.00e-03 3.62e-03  
## 877 2.19e-04 1.71e-03 3.58e-04 -1.88e-03 -5.84e-04 -1.91e-03 2.41e-03  
## 878 3.66e-03 9.15e-03 -6.10e-03 7.06e-03 2.35e-03 3.98e-03 -1.80e-02  
## 879 -3.70e-02 -1.76e-02 8.34e-03 -7.67e-03 -5.08e-03 -2.47e-02 -8.12e-03  
## 880 7.40e-04 3.47e-03 9.76e-03 3.19e-03 2.35e-04 -1.52e-03 -3.65e-04  
## 881 7.35e-03 1.41e-02 9.36e-03 -6.28e-03 -2.63e-03 -7.91e-03 -1.28e-02  
## 882 2.01e-03 -4.29e-03 -3.87e-03 -4.34e-03 4.86e-03 -2.68e-03 4.43e-04  
## 883 -1.23e-03 -2.96e-03 -3.63e-04 -1.14e-03 -3.24e-03 2.78e-03 5.92e-03  
## 884 1.16e-02 7.59e-03 -1.79e-03 1.79e-03 3.79e-03 -1.13e-02 -3.00e-03  
## 885 -4.43e-03 -2.13e-02 4.58e-02 1.60e-02 -6.82e-03 7.61e-03 1.58e-02  
## 886 2.23e-02 -1.40e-02 3.43e-02 1.95e-02 -4.31e-03 -3.68e-03 -1.14e-02  
## 887 -1.97e-02 1.12e-02 -5.07e-03 -4.64e-03 -1.45e-02 -7.72e-04 1.93e-02  
## 888 -2.82e-02 2.64e-02 1.80e-02 -9.43e-04 3.67e-02 -1.40e-02 3.29e-03  
## 889 3.09e-03 8.57e-03 -2.66e-03 -4.39e-03 -1.10e-02 5.52e-03 -2.09e-03  
## 890 -2.77e-02 -2.01e-02 1.65e-02 2.17e-03 3.03e-02 -3.68e-03 1.00e-02  
## 891 -1.71e-02 1.58e-02 3.21e-02 1.87e-02 -8.06e-03 4.29e-03 -6.22e-03  
## 892 3.31e-02 2.12e-02 9.15e-03 -5.02e-03 -6.64e-03 3.58e-02 -3.10e-02  
## 893 -1.09e-02 -6.82e-03 -6.41e-03 -7.98e-03 7.69e-03 1.85e-03 2.78e-03  
## 894 9.97e-03 1.55e-02 -1.27e-02 1.16e-02 2.38e-03 9.02e-03 -7.63e-03  
## 895 5.03e-05 1.22e-04 -9.49e-05 -1.06e-04 1.51e-04 -2.33e-04 2.89e-05  
## 896 -1.14e-02 -8.05e-03 -5.43e-03 9.58e-03 2.21e-03 -7.33e-03 7.62e-04  
## 897 -2.56e-02 1.36e-02 8.00e-03 -8.33e-03 -4.13e-03 -1.32e-02 -1.24e-02  
## 898 5.22e-03 1.01e-02 -1.14e-02 -1.24e-02 1.08e-02 5.05e-04 -2.18e-03  
## 899 7.31e-03 -6.19e-03 -8.08e-04 1.56e-03 3.12e-03 -7.89e-03 -1.76e-03  
## 900 -6.09e-03 1.11e-02 9.16e-03 -6.90e-03 -1.89e-03 -6.34e-03 9.74e-03  
## 901 4.19e-03 -1.67e-02 9.82e-03 -9.72e-03 -5.00e-03 -1.45e-02 -1.59e-02  
## 902 4.21e-03 -5.84e-03 -5.87e-03 -7.09e-03 7.63e-03 -3.35e-03 8.81e-03  
## 903 -4.26e-04 -3.22e-03 8.29e-05 -2.05e-04 3.31e-03 2.63e-05 -6.03e-04  
## 904 -2.92e-03 -7.71e-03 -1.49e-02 -6.52e-03 3.05e-03 -4.71e-03 7.44e-03  
## 905 -2.22e-03 1.38e-02 -6.07e-03 4.74e-03 5.53e-03 -6.78e-03 -7.94e-03  
## 906 5.10e-03 8.04e-03 -1.83e-03 4.05e-03 3.35e-03 -3.67e-03 -3.20e-03  
## 907 6.27e-03 -5.12e-03 1.52e-03 7.04e-03 -9.87e-03 -3.64e-03 -9.70e-04  
## 908 -2.16e-03 -3.12e-03 -1.98e-03 4.30e-03 5.03e-04 -3.66e-03 7.56e-04  
## 909 1.29e-02 -1.41e-02 -3.00e-02 -9.77e-03 3.68e-03 -1.19e-03 -1.26e-02  
## 910 -5.86e-03 -1.84e-02 4.00e-02 1.71e-02 -5.29e-03 4.37e-03 -1.25e-02  
## 911 1.79e-04 3.61e-03 -2.42e-03 9.46e-04 -5.48e-03 -4.51e-03 7.98e-04  
## 912 1.46e-03 3.24e-03 -2.12e-04 1.41e-03 2.06e-03 -5.09e-03 -9.24e-05  
## 913 -7.94e-04 -1.28e-03 2.19e-04 -3.48e-05 1.22e-03 -2.63e-03 1.47e-03  
## 914 9.14e-03 -9.89e-03 -1.78e-02 1.71e-02 -7.14e-03 7.05e-03 5.90e-03  
## 915 -8.84e-03 -1.41e-02 3.26e-02 1.42e-02 -4.97e-03 2.95e-03 1.82e-02  
## 916 -5.40e-04 -1.47e-03 5.36e-04 -1.93e-03 -6.23e-04 -9.46e-04 -2.61e-03  
## 917 -1.13e-02 -1.68e-02 -1.48e-02 1.22e-02 1.01e-03 6.19e-03 -5.37e-03  
## 918 9.91e-03 -1.38e-02 -7.49e-03 9.25e-03 4.67e-03 9.45e-03 1.32e-02  
## 919 1.05e-04 1.28e-04 -7.91e-05 -1.60e-04 1.94e-04 2.27e-04 -1.77e-04  
## 920 4.34e-03 4.98e-03 -9.87e-04 1.96e-03 2.69e-03 -2.26e-03 -1.14e-03  
## 921 -2.05e-02 1.83e-02 -2.07e-02 -3.41e-02 2.24e-02 -2.74e-03 -5.14e-03  
## 922 4.68e-03 -3.24e-03 -2.78e-03 -3.79e-03 4.67e-03 1.69e-03 -5.94e-03  
## 923 -1.15e-02 -1.28e-02 3.01e-02 1.20e-02 -3.02e-03 7.73e-03 1.68e-02  
## 924 6.79e-03 -2.34e-03 6.06e-06 -1.25e-03 -2.89e-03 1.85e-03 -1.14e-03  
## 925 3.38e-03 9.82e-03 -2.11e-02 -7.04e-03 3.21e-03 1.49e-03 7.26e-03  
## 926 1.35e-03 1.51e-02 1.20e-02 -7.88e-03 -3.09e-03 -9.45e-03 -1.58e-02  
## 927 -1.61e-03 -3.36e-03 -1.33e-03 2.70e-04 -4.18e-03 -4.17e-03 9.73e-04  
## 928 -1.67e-02 -1.27e-02 -4.84e-03 -5.71e-03 -1.52e-02 3.88e-04 1.87e-02  
## 929 -1.30e-02 -1.34e-02 -9.50e-03 7.57e-03 3.48e-03 5.88e-04 1.77e-02  
## 930 -1.43e-02 6.16e-03 -1.85e-03 4.52e-03 3.04e-03 -4.62e-03 1.11e-02  
## 931 1.58e-03 -3.13e-03 1.36e-03 3.75e-03 -5.43e-03 -9.15e-03 -1.41e-03  
## 932 3.87e-03 7.90e-03 -1.63e-02 -5.94e-03 3.37e-03 -7.83e-05 5.95e-03  
## 933 -5.47e-03 -7.78e-03 -1.41e-03 2.87e-03 4.01e-03 -8.46e-03 1.27e-02  
## 934 -3.47e-03 -2.27e-02 4.32e-02 -3.95e-02 1.74e-02 -6.16e-03 -1.77e-02  
## 935 1.61e-03 1.28e-02 1.00e-02 -6.18e-03 -3.45e-03 -1.19e-03 6.95e-03  
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## 937 5.31e-03 -5.13e-03 -9.54e-04 2.12e-03 2.41e-03 -9.18e-04 -1.05e-03  
## 938 1.33e-03 -1.53e-03 5.31e-04 2.65e-03 -3.00e-03 -9.97e-04 1.93e-04  
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## 941 -9.96e-04 2.95e-03 1.58e-03 3.16e-03 -4.63e-03 -1.03e-03 -6.06e-03  
## 942 1.45e-02 -8.52e-03 -6.44e-03 -5.14e-04 -1.29e-02 -7.78e-04 -2.52e-03  
## 943 1.46e-02 1.31e-02 9.98e-03 -5.82e-03 -2.91e-03 7.42e-03 4.96e-03  
## 944 1.30e-02 6.64e-03 -9.12e-05 -6.92e-03 -6.92e-03 -9.79e-03 -1.91e-03  
## 945 -3.16e-03 -1.93e-02 3.93e-02 -2.53e-03 -3.50e-02 9.05e-03 -7.59e-03  
## 946 3.76e-04 -1.28e-02 -2.56e-02 -1.63e-02 6.77e-03 -8.81e-03 9.86e-03  
## 947 -8.64e-05 -1.02e-03 -1.98e-04 5.19e-04 7.98e-04 7.37e-04 -3.90e-04  
## 948 2.92e-02 -1.72e-02 -4.94e-02 -1.03e-02 2.42e-03 1.57e-02 8.68e-03  
## 949 -1.89e-02 -1.58e-02 -1.05e-02 6.38e-03 4.77e-03 5.10e-03 1.94e-02  
## 950 -9.93e-04 4.65e-03 -4.62e-04 2.33e-03 2.20e-03 3.98e-03 -1.30e-03  
## 951 5.25e-03 -5.15e-03 -3.36e-04 2.42e-03 2.16e-03 2.23e-03 -2.65e-03  
## 952 -6.79e-03 2.00e-02 -1.89e-02 1.41e-02 2.27e-03 9.96e-03 -1.15e-02  
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## 955 1.38e-03 9.04e-03 -2.21e-03 3.34e-03 4.08e-03 -2.59e-03 -4.35e-03  
## 956 1.50e-02 6.63e-03 -2.07e-03 4.41e-03 2.01e-03 3.57e-03 -1.34e-02  
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## 958 -8.10e-03 1.12e-02 2.47e-02 -1.92e-02 1.02e-02 -2.11e-02 1.65e-02  
## 959 2.90e-03 4.93e-03 -8.73e-04 2.30e-03 2.96e-03 -4.04e-03 -4.50e-04  
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## 963 -7.10e-03 -1.59e-02 -3.60e-02 -1.07e-02 2.75e-03 -1.31e-02 -1.16e-02  
## 964 -3.01e-02 -2.61e-02 4.32e-03 -8.80e-03 -1.40e-02 2.82e-02 7.88e-03  
## 965 5.68e-03 4.99e-03 1.74e-03 7.41e-03 -1.08e-02 -6.23e-03 -1.09e-03  
## 966 9.16e-04 6.51e-03 2.93e-04 -8.47e-03 -3.45e-03 -3.21e-03 -2.06e-03  
## 967 -1.73e-03 6.78e-03 6.39e-03 -3.18e-03 -1.22e-03 -4.03e-03 5.50e-03  
## 968 6.42e-03 1.04e-02 7.07e-03 -3.95e-03 -2.81e-03 -7.00e-03 -9.82e-03  
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## 980 -2.98e-03 -4.30e-03 -1.20e-03 3.40e-03 1.88e-03 2.36e-03 -4.18e-04  
## 981 5.27e-03 -9.07e-03 7.89e-03 -3.36e-03 -1.38e-03 -1.42e-03 5.19e-03  
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## 984 -5.89e-03 -9.45e-03 -3.08e-03 4.12e-03 3.11e-03 -6.50e-03 -2.84e-03  
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## 987 4.13e-04 5.50e-04 4.62e-05 -3.19e-04 -5.11e-04 8.47e-05 7.37e-05  
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## 989 8.25e-05 6.29e-04 1.50e-04 -7.05e-04 -3.80e-04 -8.92e-04 7.68e-04  
## 990 1.34e-03 -2.21e-03 3.10e-04 -1.40e-03 -1.82e-03 -4.04e-03 -2.89e-03  
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## 993 1.07e-02 2.13e-02 1.48e-02 -1.71e-02 -3.70e-03 -1.60e-02 3.26e-03  
## 994 2.91e-02 1.95e-02 1.52e-02 -1.44e-02 -1.94e-03 -1.11e-02 -2.74e-02  
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## 996 1.42e-03 -3.41e-03 1.51e-03 3.93e-03 -5.75e-03 -8.58e-03 -1.77e-03  
## 997 8.28e-03 1.29e-02 -2.38e-03 3.65e-03 5.47e-03 3.32e-03 -9.44e-03  
## 998 -5.32e-03 1.02e-02 8.18e-03 -5.22e-03 -1.73e-03 -9.08e-03 -7.52e-03  
## 999 1.97e-02 -1.33e-02 -2.36e-02 1.93e-02 -8.68e-03 -2.14e-03 3.85e-03  
## 1000 -2.19e-02 1.70e-02 -8.34e-03 -1.74e-02 -2.22e-02 -3.56e-03 2.20e-02  
## 1001 -1.65e-04 -2.68e-04 -6.38e-06 1.94e-04 1.84e-04 6.95e-05 7.76e-05  
## 1002 3.40e-03 4.14e-03 -9.73e-04 2.14e-03 2.18e-03 1.60e-03 -8.56e-04  
## 1003 -1.66e-02 -1.43e-02 2.43e-02 -1.30e-02 8.45e-03 -8.13e-03 -5.11e-04  
## 1004 -7.85e-04 1.38e-02 1.07e-02 -8.21e-03 -1.39e-03 -9.37e-03 6.92e-03  
## 1005 2.56e-02 1.52e-02 8.84e-03 -4.72e-03 -4.13e-03 1.89e-03 -1.80e-02  
## 1006 -1.55e-02 -1.76e-02 1.08e-02 6.74e-03 2.29e-02 -3.93e-03 7.53e-03  
## 1007 4.78e-03 6.02e-03 1.46e-02 -9.29e-03 6.47e-03 -5.09e-03 -7.16e-04  
## 1008 -4.34e-04 1.09e-02 -3.34e-03 3.10e-03 4.84e-03 -5.43e-03 -5.36e-03  
## 1009 1.01e-03 2.10e-03 1.42e-05 8.42e-05 1.93e-03 -2.82e-03 -4.15e-03  
## 1010 1.04e-02 2.04e-02 -1.18e-02 8.66e-03 4.08e-03 1.22e-02 1.66e-02  
## 1011 -1.97e-03 -1.08e-02 -3.35e-03 2.82e-03 4.60e-03 -8.16e-03 -5.14e-03  
## 1012 -1.03e-02 -2.09e-02 3.75e-03 1.66e-02 2.74e-02 -5.02e-03 1.35e-02  
## 1013 1.82e-02 -2.21e-02 5.32e-04 1.88e-02 2.40e-02 2.94e-02 5.02e-03  
## 1014 -1.68e-03 -3.00e-03 1.59e-03 3.23e-03 -4.41e-03 -1.14e-03 4.40e-03  
## 1015 1.94e-03 -1.46e-03 -7.38e-04 1.79e-03 5.93e-04 3.51e-03 -2.23e-03  
## 1016 -2.41e-03 1.34e-02 -6.21e-03 3.56e-03 3.83e-03 -1.25e-02 1.75e-02  
## 1017 9.12e-03 -5.91e-03 -1.83e-03 3.06e-03 2.44e-03 2.59e-03 -1.70e-03  
## 1018 -2.54e-04 -3.65e-03 -4.25e-04 -1.62e-03 -4.03e-03 2.88e-03 9.43e-05  
## 1019 -1.94e-03 2.68e-03 -6.13e-04 -4.96e-03 4.46e-03 7.31e-04 -7.38e-05  
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## 1021 -9.50e-03 -1.50e-02 2.46e-02 -1.60e-02 6.98e-03 9.76e-03 1.80e-02  
## 1022 -2.94e-02 1.21e-02 -1.09e-02 1.01e-02 1.81e-03 1.54e-02 1.98e-02  
## 1023 1.54e-03 -2.74e-03 6.64e-03 -2.45e-03 2.50e-03 -4.36e-03 4.60e-03  
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## 1025 -6.64e-03 -7.90e-03 -5.02e-03 8.87e-03 2.02e-03 -1.95e-03 2.69e-05  
## 1026 6.68e-03 -1.42e-02 9.73e-03 8.32e-03 1.97e-02 -5.19e-03 5.51e-03  
## 1027 -1.36e-02 1.34e-02 -3.87e-02 9.60e-03 2.35e-02 -8.27e-03 -1.16e-02  
## 1028 -1.11e-02 -1.01e-02 -6.03e-03 -2.59e-03 -1.38e-02 6.05e-03 1.60e-02  
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## 1030 -4.91e-03 9.68e-03 -2.10e-02 -7.86e-03 3.59e-03 -6.67e-03 -4.79e-03  
## 1031 -4.01e-04 1.15e-03 5.96e-04 1.45e-03 -1.97e-03 -1.65e-03 1.44e-03  
## 1032 -8.54e-04 4.90e-03 1.53e-03 4.96e-03 -7.23e-03 9.17e-04 -1.56e-03  
## 1033 8.19e-04 -9.05e-04 2.60e-04 -1.12e-03 -5.98e-04 -2.30e-03 1.11e-03  
## 1034 -4.46e-05 -6.09e-05 1.87e-05 -9.65e-06 7.23e-05 1.08e-04 -1.06e-05  
## 1035 6.38e-04 -1.50e-02 -8.02e-03 7.39e-03 3.79e-03 -1.87e-03 1.60e-02  
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## 1037 5.65e-03 -2.30e-02 2.19e-02 3.53e-02 -2.88e-02 -1.57e-02 -3.01e-02  
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## 1041 2.24e-02 -1.87e-02 1.13e-02 1.04e-02 2.68e-02 -7.71e-05 -2.96e-02  
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## 1043 1.42e-02 -1.45e-02 -1.09e-02 -2.65e-03 -2.17e-02 1.93e-03 -6.06e-03  
## 1044 3.49e-04 -4.75e-04 -8.60e-05 5.17e-04 1.92e-04 3.08e-04 -8.09e-04  
## 1045 -2.19e-03 1.05e-02 -2.41e-03 2.30e-03 4.28e-03 -3.89e-03 -5.20e-03  
## 1046 1.99e-03 3.77e-03 -8.45e-04 2.37e-03 2.20e-03 1.05e-03 -2.56e-04  
## 1047 -3.13e-02 2.65e-02 3.38e-03 -6.37e-03 -1.34e-02 3.62e-02 7.45e-03  
## 1048 -5.47e-03 -1.76e-02 -4.40e-02 -1.28e-02 5.56e-03 6.22e-03 -1.85e-02  
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## 1055 2.22e-03 1.38e-02 8.87e-03 -6.59e-03 -4.55e-03 -1.07e-02 -1.44e-02  
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## 1066 -1.05e-02 -1.96e-02 2.45e-02 2.46e-02 -2.08e-02 7.89e-04 7.19e-03  
## 1067 -5.40e-03 5.09e-03 1.54e-02 4.01e-03 3.23e-04 -2.90e-04 -1.25e-03  
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## 1071 -1.06e-02 -1.04e-02 8.78e-03 -5.69e-03 -1.39e-03 -2.88e-03 9.86e-03  
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## 1074 2.49e-03 -1.56e-03 -3.52e-04 -2.78e-04 -1.67e-03 2.73e-03 -2.23e-03  
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## 1076 -2.15e-02 -8.50e-03 1.76e-02 1.25e-02 -2.12e-03 -4.60e-03 2.24e-03  
## 1077 -1.42e-02 -1.83e-02 -8.36e-03 -1.71e-02 -2.28e-02 -7.18e-03 2.22e-02  
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## 1079 5.27e-04 1.52e-02 2.63e-02 -1.65e-02 8.10e-03 4.39e-03 -9.08e-03  
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## 1087 3.93e-03 -5.95e-03 -4.41e-03 7.82e-03 1.41e-03 -4.15e-03 -1.82e-03  
## 1088 7.66e-03 7.67e-03 -1.92e-03 5.75e-03 2.78e-03 -4.17e-04 -3.93e-03  
## 1089 3.03e-03 -7.07e-03 2.00e-03 8.19e-03 -1.15e-02 -5.67e-03 -2.28e-03  
## 1090 1.35e-03 1.19e-03 2.48e-04 -1.56e-04 1.42e-03 9.41e-04 -6.46e-04  
## 1091 2.86e-03 4.30e-03 -9.80e-04 -1.32e-03 -4.82e-03 -1.20e-03 -8.27e-03  
## 1092 -1.90e-02 2.10e-02 -1.48e-02 6.81e-03 6.04e-03 3.74e-03 2.07e-02  
## 1093 2.84e-02 -8.98e-03 -3.70e-03 -1.94e-02 1.47e-02 2.01e-03 -7.99e-03  
## 1094 1.64e-02 -1.55e-02 7.50e-03 9.21e-03 1.93e-02 1.46e-03 -2.16e-02  
## 1095 3.45e-04 -3.32e-04 1.05e-04 1.35e-05 4.14e-04 -7.05e-05 -1.44e-04  
## 1096 6.39e-03 1.15e-02 -1.42e-03 -1.19e-02 -1.39e-02 -6.42e-03 -2.39e-02  
## 1097 1.52e-02 7.16e-03 4.51e-04 1.18e-02 -1.56e-02 -3.52e-03 -1.40e-02  
## 1098 5.90e-03 -3.71e-03 5.59e-05 -2.75e-03 -3.68e-03 -6.00e-04 -3.82e-04  
## 1099 -1.92e-02 -1.95e-02 4.13e-03 1.99e-02 2.27e-02 1.00e-02 1.24e-02  
## 1100 4.00e-04 8.03e-03 -4.16e-03 -1.35e-03 -1.08e-02 -2.21e-03 -2.94e-04  
## 1101 1.10e-03 2.57e-03 -7.24e-04 2.08e-03 1.45e-03 3.75e-03 -4.14e-05  
## 1102 -9.02e-03 -1.89e-02 -1.98e-02 -3.80e-02 2.35e-02 1.38e-04 2.12e-02  
## 1103 -9.03e-03 -5.26e-03 -3.68e-03 7.05e-03 1.43e-03 -6.36e-03 1.12e-03  
## 1104 -4.16e-04 1.75e-03 9.59e-04 2.02e-03 -2.93e-03 -3.46e-03 2.05e-03  
## 1105 3.88e-04 1.59e-03 4.55e-04 -1.99e-03 -9.16e-04 -3.72e-03 1.83e-03  
## 1106 -2.27e-03 6.65e-03 -5.70e-03 -1.18e-02 9.65e-03 8.09e-03 -1.72e-03  
## 1107 9.74e-04 -6.15e-04 2.36e-04 -7.15e-04 -3.43e-04 -5.39e-04 -1.25e-03  
## 1108 -2.91e-02 1.37e-02 7.92e-03 -6.91e-03 -3.64e-03 -1.05e-02 -1.17e-02  
## 1109 -7.34e-04 2.40e-03 -6.31e-03 -3.89e-03 1.87e-04 -4.82e-04 3.76e-03  
## 1110 5.51e-03 1.83e-02 2.13e-02 2.68e-02 -1.95e-02 -6.29e-03 4.96e-03  
## 1111 1.20e-02 1.77e-02 -2.07e-02 -2.60e-02 1.97e-02 3.21e-03 -1.00e-02  
## 1112 -5.85e-03 3.95e-03 -8.44e-04 3.34e-03 2.01e-03 -2.51e-03 -5.87e-03  
## 1113 5.36e-03 -4.43e-03 -1.68e-03 3.68e-03 2.13e-03 2.80e-03 -7.33e-03  
## 1114 -1.94e-02 8.96e-03 -7.33e-03 1.11e-02 1.88e-03 -6.68e-03 1.22e-03  
## 1115 1.63e-02 -1.04e-02 -7.71e-03 -1.74e-03 -1.53e-02 2.27e-03 -3.39e-03  
## 1116 6.62e-04 -2.14e-03 2.89e-05 -8.72e-05 2.27e-03 -1.74e-03 -4.45e-03  
## 1117 -3.02e-02 1.32e-02 -9.48e-03 7.94e-03 3.09e-03 2.30e-03 2.02e-02  
## 1118 6.27e-03 -3.11e-03 -9.71e-04 3.55e-03 9.99e-04 1.25e-03 -6.54e-03  
## 1119 1.38e-02 1.86e-02 1.03e-02 -1.09e-02 -6.45e-03 1.79e-02 -2.69e-02  
## 1120 4.95e-03 4.43e-03 -3.10e-04 -2.46e-03 -4.26e-03 -3.06e-03 -1.00e-03  
## 1121 3.68e-03 1.01e-02 -4.60e-03 4.36e-03 3.61e-03 -6.39e-03 -5.38e-03  
## 1122 -1.13e-02 -1.52e-02 -2.48e-02 1.71e-02 -8.59e-03 -1.11e-03 1.01e-02  
## 1123 2.52e-02 -1.46e-02 9.75e-03 -6.22e-03 -4.12e-03 -6.55e-03 -1.75e-02  
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## 1125 7.56e-03 4.98e-03 -1.73e-03 2.97e-03 2.18e-03 3.16e-03 -1.50e-03  
## 1126 -2.14e-02 1.47e-02 2.97e-02 2.07e-02 -7.50e-03 1.01e-02 -3.59e-03  
## 1127 8.62e-04 1.41e-03 2.19e-04 -9.07e-04 -1.11e-03 -1.91e-03 2.46e-04  
## 1128 -3.53e-02 1.81e-02 1.41e-02 3.57e-02 -2.78e-02 1.32e-02 4.24e-02  
## 1129 -2.03e-02 9.39e-03 -2.01e-02 1.58e-02 -6.67e-03 -2.96e-03 1.05e-02  
## 1130 5.82e-03 4.70e-03 1.74e-03 6.91e-03 -1.01e-02 -6.61e-03 -1.38e-03  
## 1131 -3.44e-03 -1.02e-02 -4.10e-03 -6.34e-03 -1.23e-02 6.57e-03 1.55e-02  
## 1132 8.09e-04 -1.32e-03 2.93e-03 -8.38e-04 1.04e-03 -2.93e-03 1.45e-04  
## 1133 1.80e-04 3.10e-03 -2.61e-04 4.69e-04 2.56e-03 -6.17e-03 -1.49e-03  
## 1134 2.47e-03 -3.13e-03 -2.16e-04 3.70e-04 2.83e-03 -1.06e-02 -1.75e-03  
## 1135 2.09e-02 1.25e-02 -2.79e-03 -8.87e-03 -1.33e-02 -8.49e-03 -2.55e-02  
## 1136 1.14e-03 5.14e-03 1.36e-02 -8.91e-03 6.14e-03 -7.00e-03 -5.91e-04  
## 1137 1.30e-02 -5.57e-03 2.97e-03 1.09e-02 -1.16e-02 -4.18e-03 -1.34e-02  
## 1138 1.07e-02 6.26e-03 1.48e-03 9.35e-03 -1.36e-02 -6.35e-03 -2.11e-03  
## 1139 -1.66e-02 1.97e-02 4.50e-02 -9.66e-03 -3.72e-02 -1.03e-02 -8.04e-03  
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## 1141 1.31e-02 -1.54e-02 1.01e-02 -4.40e-03 -4.18e-03 2.36e-02 -2.13e-02  
## 1142 -3.61e-03 -1.11e-02 -1.13e-02 -1.89e-02 1.44e-02 3.22e-03 1.71e-02  
## 1143 -8.22e-03 4.41e-03 -8.16e-04 2.66e-03 2.46e-03 9.71e-04 8.74e-03  
## 1144 8.13e-03 -1.66e-02 -8.60e-03 6.32e-03 5.36e-03 -9.70e-03 -3.62e-02  
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## 1146 -4.28e-03 -1.15e-02 6.85e-03 8.73e-03 1.57e-02 -1.13e-02 -1.07e-02  
## 1147 -3.18e-03 -1.09e-02 -8.46e-03 8.55e-03 1.86e-03 1.38e-02 1.55e-02  
## 1148 8.17e-03 -5.74e-03 -7.31e-04 1.52e-03 2.92e-03 -9.23e-03 -1.83e-03  
## 1149 -1.04e-02 1.13e-02 -3.91e-03 4.28e-03 5.43e-03 -9.23e-04 -6.05e-03  
## 1150 9.24e-04 -3.49e-03 -1.92e-03 -4.51e-03 4.86e-03 3.02e-03 -5.49e-04  
## 1151 1.44e-03 -1.22e-03 -6.35e-05 -3.88e-04 -1.16e-03 -2.41e-04 -1.63e-03  
## 1152 1.20e-03 -2.46e-03 1.29e-03 2.78e-03 -3.94e-03 -2.31e-04 3.38e-03  
## 1153 8.73e-04 1.30e-03 1.02e-04 -1.18e-03 -8.48e-04 -2.18e-03 -3.92e-04  
## 1154 -6.91e-03 -1.02e-02 1.70e-02 -7.83e-03 6.19e-03 -5.00e-03 5.09e-04  
## 1155 5.41e-03 -7.69e-03 -9.92e-03 -9.40e-03 8.75e-03 4.25e-03 -1.18e-03  
## 1156 5.55e-03 9.39e-03 -1.86e-02 1.67e-02 -7.41e-03 1.48e-03 -9.06e-03  
## 1157 8.00e-03 -1.69e-02 3.44e-02 -2.53e-02 1.28e-02 6.12e-03 1.71e-02  
## 1158 1.42e-02 -1.74e-02 2.26e-03 -2.53e-02 4.13e-02 2.69e-02 -2.74e-02  
## 1159 -1.42e-03 1.91e-03 5.68e-04 -2.41e-03 -4.44e-04 -1.84e-03 -1.42e-04  
## 1160 -7.43e-03 1.14e-02 1.10e-02 -7.27e-03 -2.66e-03 -5.46e-04 8.12e-03  
## 1161 -1.80e-03 1.69e-03 -4.17e-03 1.27e-03 -1.55e-03 9.03e-04 2.57e-03  
## 1162 7.32e-04 2.09e-03 -2.51e-04 1.27e-03 1.28e-03 -8.65e-04 5.08e-05  
## 1163 9.23e-03 -1.18e-02 -5.14e-03 4.86e-03 4.46e-03 -8.44e-03 -2.59e-02  
## 1164 -1.27e-02 9.64e-03 -5.04e-03 6.85e-03 3.68e-03 -6.04e-03 -1.62e-02  
## 1165 2.58e-03 3.77e-03 9.14e-04 -4.05e-03 -3.20e-03 -9.36e-03 -8.44e-05  
## 1166 -5.73e-03 5.66e-03 1.33e-02 9.55e-03 -1.42e-03 1.34e-02 9.49e-03  
## 1167 -1.30e-04 -3.40e-04 1.08e-04 -6.05e-05 4.19e-04 4.47e-04 -6.36e-05  
## 1168 2.57e-02 -2.27e-02 2.51e-02 2.88e-02 -2.94e-02 -1.00e-03 -3.69e-02  
## 1169 1.25e-02 -1.82e-02 3.90e-02 -2.43e-03 -3.56e-02 4.98e-03 -1.05e-02  
## 1170 -4.15e-02 -2.46e-02 5.78e-03 -6.18e-03 -1.19e-02 4.09e-02 9.75e-03  
## 1171 -4.42e-03 -1.11e-02 -4.88e-03 5.47e-03 4.98e-03 -9.06e-03 -2.11e-02  
## 1172 -1.87e-03 -1.56e-02 -1.30e-02 9.57e-03 3.57e-03 4.79e-04 -6.59e-03  
## 1173 -2.72e-02 9.80e-03 8.36e-03 -5.72e-03 -2.18e-03 -1.20e-02 1.22e-02  
## 1174 -1.39e-03 -4.22e-03 -1.06e-03 4.43e-03 2.05e-03 3.29e-05 -6.92e-03  
## 1175 -9.71e-03 -1.42e-02 8.91e-03 -7.64e-03 -2.45e-03 -1.61e-02 -1.14e-02  
## 1176 2.67e-03 1.33e-02 2.46e-02 -1.60e-02 8.91e-03 7.24e-03 -5.76e-03  
## 1177 -4.05e-03 2.45e-03 -2.60e-04 1.96e-03 1.32e-03 -1.17e-03 4.77e-04  
## 1178 -1.05e-02 -1.87e-02 -4.68e-02 -1.81e-02 4.90e-03 -1.03e-04 1.43e-02  
## 1179 4.11e-03 6.80e-03 -5.21e-03 8.04e-03 1.32e-03 1.46e-02 9.44e-03  
## 1180 -6.41e-03 -8.90e-03 -7.16e-03 -1.17e-02 1.07e-02 2.21e-03 1.33e-02  
## 1181 9.87e-03 1.46e-02 -5.92e-03 -1.01e-02 -1.77e-02 1.25e-02 1.36e-02  
## 1182 -8.46e-03 1.52e-02 8.76e-03 -5.47e-03 -3.77e-03 1.04e-02 3.41e-02  
## 1183 4.16e-04 -9.85e-04 -5.90e-04 -1.32e-03 1.42e-03 6.47e-04 -1.42e-03  
## 1184 -1.63e-02 -7.04e-03 1.36e-02 1.18e-02 -2.67e-03 -9.72e-03 3.10e-03  
## 1185 -1.22e-03 -1.20e-02 -6.37e-03 1.01e-02 2.49e-03 4.03e-03 1.41e-02  
## 1186 -1.18e-02 1.87e-02 -1.29e-02 7.79e-03 3.86e-03 6.82e-03 1.77e-02  
## 1187 1.41e-03 1.35e-02 -9.86e-03 1.22e-02 3.82e-03 4.62e-04 -4.41e-03  
## 1188 8.11e-04 7.40e-04 8.06e-05 -3.08e-04 -6.31e-04 -6.29e-04 -1.18e-03  
## 1189 6.07e-05 -1.05e-02 8.89e-03 -5.29e-03 -2.08e-03 -4.91e-03 7.67e-03  
## 1190 -1.90e-03 -2.46e-03 -1.35e-04 2.19e-03 1.11e-03 9.14e-04 -1.38e-04  
## 1191 -3.67e-03 -9.25e-03 -3.34e-03 3.93e-03 3.49e-03 -9.90e-04 -3.06e-03  
## 1192 1.01e-02 -1.27e-02 2.70e-02 -2.00e-02 1.01e-02 -8.94e-04 -8.32e-03  
## 1193 -3.52e-04 -2.53e-03 1.04e-03 2.82e-03 -3.95e-03 2.48e-04 3.46e-03  
## 1194 1.19e-02 6.01e-03 -3.15e-03 -1.14e-02 8.79e-03 -5.60e-03 -1.81e-03  
## 1195 3.53e-04 -9.29e-04 -1.60e-04 8.45e-04 6.00e-04 1.32e-04 2.46e-04  
## 1196 -8.39e-03 -1.39e-02 -1.33e-02 -2.62e-02 1.92e-02 9.45e-04 -3.74e-03  
## 1197 2.19e-03 1.32e-02 -8.68e-03 1.12e-02 3.11e-03 -3.26e-04 -4.57e-03  
## 1198 2.43e-03 -1.08e-02 -4.79e-03 4.38e-03 3.76e-03 -2.79e-03 -5.42e-03  
## 1199 1.31e-02 -2.29e-02 2.37e-02 2.87e-02 -2.84e-02 6.34e-03 -3.31e-02  
## 1200 1.18e-04 2.24e-04 5.24e-05 -2.39e-04 -1.33e-04 -4.21e-04 2.55e-04  
## 1201 -1.49e-02 8.85e-03 -3.13e-03 -7.85e-03 -1.16e-02 -8.33e-03 1.74e-02  
## 1202 1.24e-02 -1.11e-02 9.09e-03 -3.85e-03 -2.35e-03 3.22e-03 5.33e-03  
## 1203 -2.38e-02 -1.90e-02 -1.33e-02 6.28e-03 4.16e-03 -2.56e-03 2.22e-02  
## 1204 2.13e-02 -1.24e-02 2.29e-03 1.90e-02 -2.76e-02 3.56e-03 -9.29e-03  
## 1205 7.09e-03 1.08e-02 7.65e-03 -3.71e-03 -2.90e-03 -1.92e-03 -1.08e-02  
## 1206 -3.97e-03 6.46e-03 -6.82e-03 -7.75e-03 8.09e-03 -1.50e-03 1.24e-03  
## 1207 2.00e-02 -1.56e-02 8.42e-03 1.28e-02 2.13e-02 -9.22e-04 -2.18e-02  
## 1208 -2.73e-02 1.91e-02 3.88e-03 1.60e-02 2.41e-02 3.10e-03 3.93e-02  
## 1209 -2.74e-02 1.74e-02 -1.28e-02 6.64e-03 4.15e-03 -1.55e-03 2.10e-02  
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## 1211 6.56e-03 -1.32e-02 1.23e-02 -8.53e-03 -9.55e-04 -1.54e-03 5.48e-03  
## 1212 2.62e-03 1.19e-02 6.32e-03 1.10e-02 1.58e-02 2.09e-04 -1.30e-02  
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## 1214 2.29e-03 1.91e-03 -1.36e-03 -2.38e-03 2.82e-03 4.12e-03 -2.85e-03  
## 1215 1.48e-03 -1.52e-02 1.37e-02 -1.06e-02 -2.84e-03 -2.85e-03 7.17e-03  
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## 1217 6.71e-03 1.07e-02 -4.73e-03 6.39e-03 3.33e-03 -1.45e-03 -2.09e-02  
## 1218 -2.17e-02 1.21e-02 -7.90e-03 4.32e-03 4.07e-03 -1.35e-02 2.01e-02  
## 1219 3.13e-03 -4.21e-03 -1.25e-03 5.29e-04 4.22e-03 -3.81e-03 -1.21e-03  
## 1220 1.03e-02 1.07e-02 9.04e-03 -4.10e-03 -1.96e-03 2.40e-03 4.53e-03  
## 1221 7.89e-03 -1.78e-02 3.16e-03 2.03e-02 2.19e-02 2.04e-02 6.69e-03  
## 1222 -1.39e-02 1.80e-02 1.33e-02 3.50e-02 -2.38e-02 3.45e-03 -2.25e-02  
## 1223 -3.63e-04 2.13e-03 1.19e-03 2.35e-03 -3.52e-03 -4.47e-03 2.38e-03  
## 1224 -4.13e-03 9.60e-03 -5.72e-03 7.86e-03 3.21e-03 -4.38e-03 -1.41e-03  
## 1225 3.02e-03 -1.30e-02 -1.53e-02 -1.71e-02 1.46e-02 8.52e-03 -2.80e-03  
## 1226 4.88e-04 -2.49e-03 9.91e-04 2.93e-03 -3.74e-03 6.59e-04 3.35e-03  
## 1227 -5.96e-03 9.49e-03 -6.45e-03 -2.80e-03 -1.34e-02 7.16e-03 -2.21e-03  
## 1228 6.13e-03 7.49e-03 -2.49e-03 4.72e-03 2.55e-03 2.54e-03 -4.47e-03  
## 1229 2.82e-02 -1.78e-02 9.12e-03 1.01e-02 2.49e-02 -1.56e-02 -2.76e-02  
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## 1234 4.17e-04 3.41e-03 -1.87e-04 1.44e-03 2.31e-03 -3.89e-03 -1.79e-04  
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## 1236 2.00e-02 -1.24e-02 -2.25e-03 -1.18e-02 -1.36e-02 -1.02e-02 -8.85e-03  
## 1237 7.18e-03 5.40e-03 -1.87e-03 3.03e-03 2.46e-03 3.40e-03 -1.51e-03  
## 1238 5.68e-03 1.02e-02 -5.91e-03 7.58e-03 2.74e-03 9.17e-03 -2.15e-02  
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## 1241 -4.57e-02 2.73e-02 5.69e-03 -1.36e-02 -1.29e-02 2.06e-02 6.53e-03  
## 1242 -1.16e-02 1.97e-02 3.62e-02 -2.89e-02 1.33e-02 6.59e-03 1.97e-02  
## 1243 1.62e-02 -1.13e-02 -8.11e-03 -2.60e-03 -1.62e-02 4.28e-03 -4.09e-03  
## 1244 -3.54e-03 -1.10e-02 -5.11e-03 -5.63e-03 -1.34e-02 -9.15e-03 -2.23e-03  
## 1245 5.77e-03 1.43e-02 8.37e-03 -6.97e-03 -3.79e-03 -9.38e-03 6.62e-03  
## 1246 2.79e-02 -1.87e-02 6.09e-03 -4.81e-03 -8.58e-03 1.57e-02 7.24e-03  
## 1247 -4.32e-03 -5.32e-03 -3.92e-03 -6.05e-03 6.94e-03 -6.55e-03 7.25e-04  
## 1248 1.62e-02 1.45e-02 9.43e-03 -4.54e-03 -4.76e-03 -1.04e-03 -1.73e-02  
## 1249 6.64e-03 5.61e-03 -7.87e-04 1.44e-03 3.05e-03 -9.19e-03 -1.78e-03  
## 1250 8.14e-03 1.20e-02 9.34e-03 -5.10e-03 -1.96e-03 -3.94e-03 -1.22e-02  
## 1251 -1.03e-02 -5.40e-03 1.19e-02 -5.04e-03 4.54e-03 -2.84e-03 9.04e-03  
## 1252 1.12e-02 2.02e-02 7.76e-03 -4.27e-03 -6.01e-03 2.75e-02 -2.93e-02  
## 1253 -2.61e-03 2.49e-03 9.68e-05 -3.74e-04 2.80e-03 5.30e-04 3.36e-03  
## 1254 -2.31e-02 -1.03e-02 2.19e-02 1.10e-02 -2.14e-03 7.78e-03 1.65e-02  
## 1255 4.79e-04 6.66e-04 4.41e-05 -5.61e-04 -4.38e-04 -6.95e-04 -2.32e-04  
## 1256 3.06e-02 2.14e-02 -4.58e-02 -2.76e-02 6.06e-03 2.11e-03 -2.97e-02  
## 1257 -1.33e-03 1.20e-02 -5.20e-03 3.04e-03 5.10e-03 -7.07e-03 -6.97e-03  
## 1258 7.20e-03 -1.40e-02 -1.04e-02 -3.28e-02 2.15e-02 1.69e-03 1.74e-02  
## 1259 4.50e-03 -1.11e-02 -7.93e-03 -2.21e-02 1.56e-02 -5.35e-03 -4.41e-03  
## 1260 6.21e-03 2.24e-02 -3.40e-02 1.68e-02 -9.28e-03 -2.80e-03 2.10e-03  
## 1261 -5.01e-03 2.52e-03 -7.85e-04 5.91e-05 -3.43e-03 -2.32e-03 5.65e-03  
## 1262 -1.13e-02 6.57e-03 1.95e-02 1.82e-02 -1.99e-02 8.67e-04 1.14e-02  
## 1263 -6.46e-03 -1.91e-02 4.40e-02 1.47e-02 -5.92e-03 -1.42e-03 -1.19e-02  
## 1264 -6.27e-05 -1.72e-04 9.91e-05 1.94e-04 -2.55e-04 5.74e-05 2.51e-04  
## 1265 -1.39e-02 -2.53e-02 2.68e-02 2.71e-02 -3.04e-02 1.31e-02 4.09e-03  
## 1266 2.63e-07 9.37e-07 -1.98e-07 7.38e-08 -1.05e-06 -1.47e-06 2.15e-07  
## 1267 -1.14e-05 -1.85e-03 5.68e-05 2.09e-04 1.67e-03 -2.99e-03 2.13e-03  
## 1268 2.14e-03 -2.40e-03 -8.79e-04 2.46e-03 1.05e-03 3.36e-03 3.64e-03  
## 1269 6.87e-03 4.67e-03 4.27e-04 -4.92e-03 -4.72e-03 -6.34e-03 -1.07e-03  
## 1270 4.41e-03 1.06e-02 1.82e-02 -1.08e-02 6.73e-03 7.08e-03 -4.61e-03  
## 1271 -4.80e-03 -5.22e-03 -2.49e-03 5.16e-04 -6.62e-03 -1.01e-02 2.39e-03  
## 1272 3.01e-03 3.94e-03 7.27e-04 5.66e-03 -6.80e-03 -2.99e-03 -7.68e-04  
## 1273 -2.32e-05 -4.16e-05 9.42e-05 -3.13e-05 3.66e-05 -3.58e-05 7.40e-05  
## 1274 -8.55e-04 2.08e-03 9.67e-05 8.46e-05 1.89e-03 -5.85e-03 -8.89e-04  
## 1275 3.18e-03 4.64e-03 -1.28e-04 -2.12e-03 -4.94e-03 6.45e-04 7.43e-03  
## 1276 4.94e-03 3.98e-03 -1.79e-03 -6.76e-03 6.09e-03 -3.41e-03 2.19e-08  
## 1277 8.40e-04 -1.39e-03 3.08e-03 -8.82e-04 1.09e-03 -3.05e-03 1.63e-04  
## 1278 3.24e-03 -2.48e-03 -6.57e-04 1.99e-03 1.30e-03 8.74e-04 -1.14e-04  
## 1279 8.30e-03 1.57e-02 -6.85e-03 4.79e-03 5.96e-03 -1.82e-03 -1.46e-02  
## 1280 -3.86e-03 -4.28e-03 -4.05e-03 -3.68e-03 5.18e-03 -5.18e-03 1.39e-03  
## 1281 1.51e-03 -2.24e-03 -2.77e-04 6.35e-04 1.94e-03 -4.86e-03 -1.12e-03  
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## 1283 1.16e-02 -1.09e-02 -5.10e-04 4.10e-03 5.67e-03 -5.31e-03 -8.21e-03  
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## 1285 2.33e-03 -2.00e-03 3.02e-04 -2.32e-03 -1.46e-03 -5.84e-03 -8.34e-04  
## 1286 -2.45e-03 -3.40e-03 8.72e-04 -4.07e-03 -1.37e-03 -4.05e-03 5.51e-03  
## 1287 -8.32e-05 -6.24e-04 -1.42e-03 4.05e-04 -6.09e-04 1.83e-04 1.01e-03  
## 1288 1.85e-02 -1.81e-02 1.36e-02 3.50e-02 -2.47e-02 6.95e-04 -2.28e-02  
## 1289 -3.21e-04 7.37e-04 1.93e-04 -9.47e-04 -2.96e-04 1.93e-04 1.17e-03  
## 1290 -1.93e-04 2.55e-03 -1.12e-03 3.33e-04 -3.38e-03 -4.65e-03 6.79e-04  
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## 1292 -1.01e-03 1.41e-03 5.47e-05 -1.37e-04 1.59e-03 2.45e-04 1.85e-03  
## 1293 -2.31e-02 -1.74e-02 3.77e-02 1.59e-02 -5.45e-03 2.22e-03 2.06e-02  
## 1294 -2.90e-02 -1.91e-02 -1.41e-02 7.89e-03 4.14e-03 -2.25e-03 -5.54e-03  
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## 1296 3.69e-03 2.12e-02 1.36e-02 4.11e-02 -2.81e-02 1.47e-02 7.72e-03  
## 1297 -1.19e-03 2.45e-03 -2.28e-03 -2.36e-03 3.10e-03 -3.94e-03 6.19e-04  
## 1298 -4.17e-04 4.95e-03 -6.92e-04 6.05e-04 4.71e-03 -4.06e-03 -1.45e-03  
## 1299 1.66e-03 -1.91e-03 3.25e-04 -5.95e-04 -1.84e-03 2.74e-04 -1.42e-04  
## 1300 -2.92e-04 4.03e-03 -2.39e-04 2.29e-04 3.47e-03 -9.13e-03 -2.05e-03  
## 1301 3.56e-03 -1.13e-02 -1.83e-02 1.60e-02 -6.46e-03 5.55e-03 5.81e-03  
## 1302 8.60e-03 -1.02e-02 -4.95e-03 7.38e-03 2.44e-03 4.23e-03 -5.70e-03  
## 1303 -1.53e-02 3.15e-02 1.88e-02 -4.57e-02 -4.77e-03 2.08e-02 -2.60e-03  
## 1304 5.08e-03 -3.20e-03 -6.20e-04 2.61e-03 1.42e-03 2.88e-03 -1.43e-03  
## 1305 1.04e-02 -9.85e-03 -2.00e-02 -8.80e-03 3.55e-03 -3.41e-03 5.38e-03  
## 1306 7.58e-03 1.24e-02 1.08e-02 -7.78e-03 -1.97e-03 -4.16e-03 5.51e-03  
## 1307 2.34e-03 1.35e-02 1.68e-02 2.04e-02 -1.46e-02 -6.13e-03 3.84e-03  
## 1308 -4.11e-04 6.89e-03 -3.22e-03 -2.76e-03 -8.66e-03 6.72e-04 1.15e-02  
## 1309 1.65e-03 3.09e-03 -1.02e-03 3.01e-03 9.49e-04 9.44e-05 -4.87e-03  
## 1310 -3.00e-02 -2.09e-02 2.26e-02 2.81e-02 -2.28e-02 -9.81e-03 1.12e-02  
## 1311 -3.82e-03 2.33e-02 9.64e-03 8.98e-03 2.95e-02 1.13e-03 2.44e-03  
## 1312 5.70e-04 -1.64e-03 4.96e-04 -1.37e-03 -1.24e-03 -4.22e-03 4.89e-04  
## 1313 1.04e-02 7.01e-03 -1.83e-03 2.21e-03 3.43e-03 -6.82e-03 -2.61e-03  
## 1314 1.20e-02 -7.89e-03 -2.05e-03 2.58e-03 3.71e-03 -1.03e-02 -1.48e-02  
## 1315 1.49e-02 1.22e-02 -4.80e-03 5.34e-03 3.93e-03 1.51e-03 -8.50e-03  
## 1316 -4.29e-02 -2.40e-02 -6.37e-03 -3.41e-02 5.17e-02 3.65e-02 9.37e-03  
## 1317 -2.45e-03 8.22e-03 -2.58e-03 -3.83e-03 -9.28e-03 1.41e-03 1.13e-02  
## 1318 -4.52e-03 -3.44e-03 1.65e-05 5.51e-04 3.72e-03 -3.04e-03 -3.13e-05  
## 1319 1.58e-02 -5.97e-03 -3.35e-03 -1.26e-02 9.42e-03 -9.60e-03 -1.92e-03  
## 1320 -2.33e-04 3.00e-04 2.01e-04 3.44e-04 -4.96e-04 -6.32e-04 3.81e-04  
## 1321 -4.23e-02 2.77e-02 -2.26e-03 2.65e-02 2.62e-02 3.60e-02 4.48e-03  
## 1322 1.53e-02 1.15e-02 -2.50e-02 -6.80e-03 3.54e-03 4.14e-03 -1.16e-02  
## 1323 3.89e-03 -3.53e-03 -4.63e-04 -1.53e-03 -3.85e-03 1.08e-03 6.57e-03  
## 1324 1.12e-02 -2.15e-02 2.60e-02 2.41e-02 -2.46e-02 1.86e-02 1.37e-03  
## 1325 2.41e-03 -6.45e-03 -2.69e-03 -1.13e-02 8.46e-03 3.08e-03 -2.26e-03  
## 1326 3.97e-04 3.56e-03 1.54e-03 4.11e-03 -6.01e-03 -8.92e-03 -1.73e-03  
## 1327 7.43e-04 5.06e-03 -1.57e-03 -8.98e-03 7.61e-03 -3.09e-03 -3.84e-04  
## 1328 -1.93e-02 -1.54e-02 -8.02e-03 3.38e-03 4.22e-03 -2.42e-02 2.15e-02  
## 1329 5.97e-04 -2.16e-03 6.28e-04 -2.75e-03 -1.30e-03 -4.56e-03 2.59e-03  
## 1330 -5.65e-03 3.75e-03 -1.39e-03 3.33e-03 1.70e-03 6.65e-03 7.49e-03  
## 1331 2.17e-02 1.73e-02 -3.78e-02 -8.92e-03 4.18e-03 3.25e-02 -2.28e-02  
## 1332 1.56e-02 -1.77e-02 7.50e-03 -4.71e-03 -6.97e-03 1.50e-02 8.57e-03  
## 1333 -9.34e-03 -1.34e-02 -1.32e-02 -2.64e-02 1.86e-02 -3.16e-03 1.86e-02  
## 1334 -3.91e-05 1.29e-04 -3.23e-06 9.14e-05 9.15e-05 -9.68e-05 3.50e-05  
## 1335 -2.44e-02 -2.49e-02 3.60e-03 -6.00e-03 -1.39e-02 3.60e-02 7.29e-03  
## 1336 -1.34e-02 -2.24e-02 3.13e-02 2.39e-02 -2.30e-02 5.79e-03 5.63e-03  
## 1337 -5.62e-03 -1.77e-02 -1.40e-03 -2.73e-02 4.06e-02 1.34e-02 1.10e-02  
## 1338 -1.12e-03 -2.95e-03 2.79e-04 1.10e-03 2.25e-03 -6.45e-03 4.81e-04  
## 1339 7.53e-04 7.09e-04 -1.43e-04 -5.25e-06 -8.88e-04 6.13e-04 -1.61e-04  
## 1340 4.88e-03 -4.16e-03 -2.01e-03 -7.32e-03 6.14e-03 2.94e-03 -3.71e-04  
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## 1342 -9.76e-03 1.32e-02 8.70e-03 8.77e-03 1.87e-02 -2.35e-03 9.21e-03  
## 1343 -5.65e-04 3.37e-03 -1.60e-04 1.71e-03 2.47e-03 -4.56e-03 3.34e-04  
## 1344 9.72e-03 -1.28e-02 1.25e-02 2.51e-02 -1.69e-02 -6.15e-05 -1.41e-02  
## 1345 4.31e-03 -1.06e-02 -1.10e-02 -1.46e-02 1.27e-02 1.57e-02 1.45e-02  
## 1346 1.82e-03 2.22e-03 1.22e-03 2.38e-03 -3.34e-03 -1.43e-03 2.66e-03  
## 1347 1.19e-02 5.82e-03 -2.81e-04 -5.33e-03 -6.13e-03 -6.17e-03 -1.46e-03  
## 1348 1.17e-03 -2.53e-03 7.96e-05 -1.88e-04 2.77e-03 -1.58e-03 -5.60e-03  
## 1349 -1.84e-04 -2.24e-04 3.54e-05 4.04e-05 2.40e-04 -7.26e-04 -4.99e-05  
## 1350 -1.75e-03 1.45e-02 9.93e-03 -8.48e-03 -2.83e-03 -8.26e-03 8.16e-03  
## 1351 1.27e-02 -6.71e-03 -1.78e-03 2.50e-03 3.00e-03 -6.53e-03 -2.44e-03  
## 1352 -1.64e-02 -1.91e-02 -1.67e-02 9.58e-03 2.94e-03 -4.15e-03 -7.41e-03  
## 1353 1.99e-02 1.17e-02 -1.32e-02 -1.34e-02 1.22e-02 -8.84e-04 -4.94e-03  
## 1354 -3.78e-02 1.50e-02 -1.02e-02 6.34e-03 4.48e-03 4.58e-03 2.15e-02  
## 1355 -1.53e-03 8.69e-03 8.11e-03 -4.86e-03 -1.31e-03 -4.43e-03 6.60e-03  
## 1356 7.35e-04 8.05e-03 -1.63e-02 -7.30e-03 3.42e-03 -3.05e-03 6.38e-03  
## 1357 1.31e-02 -1.45e-02 1.06e-02 -5.49e-03 -4.33e-03 2.74e-04 7.57e-03  
## 1358 2.01e-02 -1.31e-02 9.51e-03 -4.42e-03 -3.22e-03 1.05e-03 -1.56e-02  
## 1359 -5.11e-03 4.27e-03 2.05e-03 4.21e-03 -6.59e-03 2.44e-03 6.07e-03  
## 1360 -3.50e-03 2.66e-03 -6.12e-04 5.20e-04 2.53e-03 8.67e-04 4.92e-05  
## 1361 3.82e-03 -2.38e-02 2.74e-02 3.21e-02 -2.87e-02 -4.31e-02 -3.97e-02  
## 1362 4.82e-03 -1.09e-02 1.18e-02 2.03e-02 -1.36e-02 -1.97e-04 5.34e-03  
## 1363 -1.61e-02 1.07e-02 1.79e-02 -1.07e-02 6.12e-03 8.75e-03 4.57e-04  
## 1364 -3.29e-03 2.02e-03 -7.81e-04 2.23e-03 6.69e-04 1.86e-03 3.68e-03  
## 1365 6.26e-03 -7.86e-03 -4.45e-03 6.00e-03 2.56e-03 7.09e-03 -1.53e-02  
## 1366 1.13e-03 -2.05e-03 -2.09e-04 1.47e-03 1.41e-03 -2.58e-03 3.52e-04  
## 1367 7.26e-03 9.52e-03 -2.11e-02 -6.04e-03 2.61e-03 -2.35e-04 -8.05e-03  
## 1368 -1.13e-02 1.58e-02 -1.21e-02 1.03e-02 4.13e-03 1.78e-02 1.67e-02  
## 1369 5.99e-03 4.94e-03 1.82e-03 7.18e-03 -1.06e-02 -7.25e-03 -1.34e-03  
## 1370 3.33e-04 2.38e-04 3.98e-05 -7.81e-05 -2.14e-04 -1.81e-05 -5.99e-05  
## 1371 1.62e-04 -1.81e-04 1.74e-05 -8.25e-05 -1.60e-04 -8.79e-05 5.34e-05  
## 1372 -4.17e-03 -1.69e-02 5.86e-03 -7.28e-03 -7.93e-03 6.73e-03 1.28e-02  
## 1373 -3.25e-03 -5.98e-03 -3.56e-04 -7.49e-04 5.96e-03 1.08e-03 7.31e-03  
## 1374 6.29e-03 -5.98e-03 -3.02e-03 -6.55e-04 -7.64e-03 4.80e-03 -9.64e-03  
## 1375 6.46e-04 2.15e-03 7.30e-04 -2.81e-03 -1.06e-03 -3.53e-03 -4.43e-03  
## 1376 2.27e-04 4.09e-03 -1.66e-03 -3.69e-04 -5.45e-03 -1.87e-03 6.57e-03  
## 1377 -3.97e-02 1.67e-02 -1.08e-02 5.05e-03 5.38e-03 1.78e-03 2.26e-02  
## 1378 1.37e-03 -1.83e-03 -1.36e-04 -6.52e-04 -1.71e-03 2.22e-03 -2.40e-03  
## 1379 -5.49e-03 1.74e-02 9.29e-03 -6.47e-03 -4.92e-03 2.60e-02 3.64e-02  
## 1380 2.04e-02 1.69e-02 1.66e-02 2.99e-02 -2.01e-02 -2.15e-03 -2.24e-02  
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## 1382 1.51e-04 -9.08e-04 2.70e-04 -1.23e-03 -3.94e-04 2.76e-04 1.41e-03  
## 1383 -3.97e-04 -2.79e-03 2.04e-04 -7.13e-05 2.55e-03 -6.49e-03 3.13e-03  
## 1384 1.63e-02 -1.20e-02 -2.17e-03 -8.84e-03 -1.36e-02 -4.65e-03 -7.81e-03  
## 1385 -9.77e-03 1.49e-02 -2.51e-02 1.86e-02 -8.29e-03 -4.38e-03 9.85e-03  
## 1386 2.38e-04 5.29e-03 1.37e-04 -5.00e-04 5.27e-03 -3.31e-03 -1.16e-03  
## 1387 6.54e-05 1.51e-02 -1.79e-02 -2.45e-02 1.77e-02 5.40e-03 -6.00e-03  
## 1388 5.99e-04 8.13e-04 6.69e-05 -4.82e-04 -7.53e-04 1.00e-04 1.19e-04  
## 1389 7.40e-03 -6.46e-03 -8.71e-04 1.56e-03 3.25e-03 -8.72e-03 -1.64e-03  
## 1390 4.19e-03 -6.15e-03 -3.14e-03 6.24e-05 -8.35e-03 -2.67e-03 -1.51e-04  
## 1391 -1.26e-02 -2.16e-02 1.82e-02 3.21e-02 -3.03e-02 -4.68e-04 4.62e-02  
## 1392 1.84e-02 2.41e-02 2.12e-02 -3.12e-02 -2.89e-04 2.80e-03 4.24e-04  
## 1393 5.78e-03 -1.89e-02 -1.47e-02 8.64e-03 2.79e-03 4.92e-03 1.47e-02  
## 1394 2.63e-03 -1.23e-02 -8.01e-03 8.45e-03 2.73e-03 1.01e-02 -4.48e-03  
## 1395 2.26e-03 -3.00e-03 5.24e-04 -2.44e-03 -2.50e-03 -3.59e-03 1.47e-04  
## 1396 5.71e-03 4.79e-03 1.72e-03 7.11e-03 -1.04e-02 -6.11e-03 -1.24e-03  
## 1397 -1.23e-02 8.55e-03 -1.95e-02 -7.16e-03 3.03e-03 -6.11e-03 -4.07e-03  
## 1398 1.02e-02 2.01e-02 3.91e-03 -3.04e-02 4.38e-02 2.72e-03 -2.71e-02  
## 1399 6.26e-03 1.52e-02 -7.60e-03 6.45e-03 4.98e-03 4.97e-04 -1.08e-02  
## 1400 3.74e-04 -1.10e-03 -1.58e-04 9.59e-04 7.46e-04 -7.36e-04 -1.58e-03  
## 1401 1.83e-02 1.23e-02 9.05e-03 -4.48e-03 -2.86e-03 2.22e-03 3.92e-03  
## 1402 -1.15e-04 -5.11e-04 -5.30e-05 -1.23e-03 1.05e-03 -1.06e-03 6.37e-04  
## 1403 -7.48e-03 8.09e-03 3.04e-03 1.19e-02 -1.55e-02 -1.35e-02 1.36e-02  
## 1404 5.69e-04 -5.29e-03 -5.69e-03 -4.69e-03 5.79e-03 -3.70e-03 2.93e-04  
## 1405 3.58e-03 -1.38e-02 -1.08e-02 -2.93e-03 -2.11e-02 3.97e-04 -1.78e-03  
## 1406 -1.16e-03 5.78e-03 -1.23e-02 -4.46e-03 2.21e-03 -2.31e-03 5.85e-03  
## 1407 1.18e-02 1.77e-02 3.43e-02 1.93e-02 -7.30e-03 7.68e-03 1.37e-02  
## 1408 -1.24e-03 1.41e-02 1.38e-02 2.57e-02 -1.75e-02 -4.23e-03 -1.37e-02  
## 1409 1.89e-03 -2.05e-03 3.67e-04 -4.17e-05 2.28e-03 1.48e-03 -9.41e-04  
## 1410 -5.58e-03 1.13e-02 -7.92e-03 1.02e-02 1.86e-03 1.00e-02 -3.92e-03  
## 1411 -2.77e-03 4.70e-03 -3.47e-03 6.04e-03 1.02e-03 -1.29e-03 7.58e-03  
## 1412 -1.35e-03 -4.23e-03 -6.66e-04 -6.00e-04 -4.53e-03 1.88e-03 7.59e-03  
## 1413 1.69e-03 -1.14e-02 2.73e-02 9.13e-03 -2.46e-03 -2.07e-03 -6.30e-03  
## 1414 -1.46e-03 6.58e-03 -6.04e-03 3.35e-04 -1.09e-02 -7.88e-04 3.87e-04  
## 1415 6.62e-05 -1.11e-03 -1.08e-05 2.51e-04 1.01e-03 -2.79e-03 -4.00e-04  
## 1416 1.92e-03 -1.15e-02 -1.47e-02 -1.30e-02 1.16e-02 3.48e-03 -2.18e-03  
## 1417 5.71e-03 -9.74e-03 -1.88e-02 -7.58e-03 3.92e-03 5.79e-04 6.66e-03  
## 1418 -1.93e-04 2.12e-04 6.52e-05 -3.94e-05 2.68e-04 3.21e-04 -2.89e-05  
## 1419 -6.95e-03 -1.05e-02 1.21e-02 1.80e-02 -1.20e-02 -5.02e-03 7.64e-03  
## 1420 8.84e-06 -4.87e-05 1.24e-05 8.96e-05 -8.98e-05 9.36e-05 8.35e-06  
## 1421 2.59e-02 1.28e-02 -6.97e-03 -2.47e-02 1.75e-02 7.11e-03 -1.17e-02  
## 1422 -1.48e-04 1.75e-03 3.55e-03 -1.36e-03 1.26e-03 -1.67e-05 -6.88e-05  
## 1423 -2.39e-02 9.91e-03 2.41e-02 1.36e-02 -4.64e-03 1.43e-02 1.50e-02  
## 1424 5.38e-03 -1.66e-02 8.98e-03 -5.35e-03 -5.47e-03 1.85e-02 3.53e-02  
## 1425 -5.21e-05 2.96e-04 1.79e-05 -1.19e-04 -2.54e-04 1.55e-04 -3.80e-04  
## 1426 3.75e-03 -3.98e-03 -9.22e-04 2.63e-03 2.21e-03 -3.26e-03 -6.41e-03  
## 1427 2.57e-03 -5.99e-03 -3.63e-03 -8.90e-03 8.43e-03 -1.66e-03 -1.00e-02  
## 1428 2.89e-03 2.49e-03 -7.69e-04 1.84e-03 1.10e-03 2.52e-03 -2.40e-04  
## 1429 2.00e-02 9.97e-03 -3.66e-03 -1.91e-02 1.48e-02 3.26e-03 -7.26e-03  
## 1430 -3.74e-03 -1.15e-02 8.13e-03 -5.51e-03 -2.16e-03 -1.25e-02 8.36e-03  
## 1431 1.22e-02 -8.13e-03 1.38e-02 -5.86e-03 4.09e-03 -2.86e-03 -3.32e-03  
## 1432 -2.44e-03 8.90e-03 7.71e-03 -4.17e-03 -1.73e-03 -3.70e-03 6.71e-03  
## 1433 -1.24e-02 8.60e-03 -4.89e-03 6.11e-03 2.97e-03 5.95e-03 -1.76e-02  
## 1434 -7.45e-03 -7.00e-03 -2.59e-03 5.25e-03 2.14e-03 5.05e-03 -6.24e-04  
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## 1436 2.73e-03 2.87e-03 5.48e-04 -2.60e-03 -2.46e-03 -6.17e-03 6.16e-05  
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## 1438 -2.71e-03 -6.40e-03 -2.14e-03 -7.13e-04 -7.65e-03 1.69e-04 9.79e-03  
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## 1444 3.68e-03 3.97e-03 -1.01e-03 2.21e-03 1.98e-03 1.48e-03 -6.17e-04  
## 1445 1.02e-02 -6.41e-03 1.78e-02 4.35e-03 -3.96e-04 -1.08e-02 -2.47e-03  
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## 1447 8.28e-03 1.00e-02 -3.96e-03 6.40e-03 4.27e-03 6.83e-03 -2.31e-02  
## 1448 3.57e-04 9.80e-03 2.19e-02 1.32e-02 -3.18e-03 1.63e-02 1.31e-02  
## 1449 -1.27e-03 1.56e-02 -1.35e-02 1.20e-02 2.60e-03 1.26e-02 1.55e-02  
## 1450 7.63e-03 4.36e-03 -5.51e-04 -3.16e-03 -4.90e-03 3.20e-03 -6.87e-04  
## 1451 5.72e-03 -6.85e-03 -5.76e-03 -1.15e-02 1.13e-02 -8.20e-03 -6.68e-04  
## 1452 -1.12e-02 1.01e-02 1.30e-02 1.94e-02 -1.34e-02 -5.17e-03 7.99e-03  
## 1453 -1.65e-03 1.24e-02 -1.21e-02 -1.76e-02 1.50e-02 -3.59e-03 -1.52e-03  
## 1454 -2.87e-02 -2.55e-02 3.87e-03 -6.58e-03 -1.38e-02 4.09e-02 6.90e-03  
## 1455 -8.22e-03 -6.71e-03 -4.43e-03 8.15e-03 1.68e-03 -3.25e-03 1.04e-02  
## 1456 -2.16e-03 -1.30e-02 1.09e-02 -5.58e-03 -2.71e-03 -2.96e-03 8.91e-03  
## 1457 4.44e-03 1.39e-02 -1.00e-02 -2.26e-02 1.77e-02 3.39e-03 -3.99e-03  
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## 1459 2.73e-02 1.52e-02 9.17e-03 -5.15e-03 -3.93e-03 6.47e-04 -1.93e-02  
## 1460 5.03e-03 8.61e-03 -8.83e-04 2.92e-03 3.82e-03 5.05e-03 -4.76e-03  
## 1461 -1.02e-02 1.60e-02 -6.26e-03 -1.53e-02 -1.81e-02 -6.32e-03 1.86e-02  
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## 1463 6.37e-03 -1.14e-02 -3.55e-03 7.19e-03 4.33e-03 4.54e-04 -2.36e-02  
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## 1467 -6.34e-03 1.41e-02 -1.55e-02 -2.25e-02 1.77e-02 4.64e-03 -5.95e-03  
## 1468 9.28e-03 -1.40e-02 8.88e-03 1.06e-02 1.87e-02 4.74e-03 4.45e-03  
## 1469 -7.51e-03 1.28e-02 1.19e-02 -1.01e-02 -7.49e-04 -8.56e-03 9.58e-03  
## 1470 8.84e-03 1.14e-02 -9.44e-03 -2.37e-03 -1.74e-02 -8.58e-04 -3.38e-03  
## 1471 -6.53e-03 -4.52e-03 9.29e-03 -3.28e-03 3.51e-03 -5.09e-03 1.42e-03  
## 1472 5.66e-03 5.84e-03 -8.79e-04 1.49e-03 3.27e-03 -7.90e-03 -1.66e-03  
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## 1474 -1.15e-02 -1.71e-02 1.76e-02 -1.75e-02 -8.25e-04 -1.02e-02 1.08e-02  
## 1475 -5.61e-03 -1.07e-02 -6.44e-03 9.53e-03 2.62e-03 6.72e-03 1.47e-02  
## 1476 -1.06e-02 4.64e-03 -1.68e-03 3.83e-03 2.14e-03 5.59e-03 9.61e-03  
## 1477 -1.28e-03 -1.91e-03 2.48e-04 -9.54e-05 1.99e-03 -1.26e-03 -3.58e-03  
## 1478 3.34e-03 -2.21e-02 4.60e-02 1.94e-02 -9.08e-03 1.80e-02 1.66e-02  
## 1479 -2.89e-04 1.85e-04 1.06e-07 5.76e-05 2.12e-04 -1.19e-04 1.84e-05  
## 1480 -7.31e-03 -5.61e-03 1.02e-02 -3.64e-03 3.84e-03 -5.99e-03 8.91e-03  
## 1481 5.63e-03 -9.69e-03 -1.88e-02 -9.72e-03 4.24e-03 -5.04e-03 6.05e-03  
## 1482 -2.50e-02 2.08e-02 5.33e-03 -5.42e-03 -8.67e-03 1.28e-02 1.30e-02  
## 1483 -2.83e-03 -1.08e-02 -9.92e-03 1.32e-02 8.72e-04 -1.87e-03 -1.32e-03  
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## 1495 -1.69e-03 9.63e-03 1.59e-02 -8.40e-03 4.54e-03 3.76e-03 -3.13e-03  
## 1496 -1.40e-03 -1.19e-02 -8.70e-03 9.27e-03 1.19e-03 1.08e-02 1.57e-02  
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## 1498 -3.08e-03 4.81e-03 -3.48e-03 -6.89e-03 7.04e-03 2.75e-03 -7.29e-03  
## 1499 -8.79e-03 -1.50e-02 2.93e-02 2.13e-02 -7.06e-03 -1.12e-02 -3.44e-03  
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## 1502 -1.21e-03 2.52e-03 -1.92e-03 -2.68e-03 3.68e-03 1.17e-03 4.69e-03  
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## 1507 -1.54e-03 2.31e-03 4.63e-05 1.95e-04 2.13e-03 -4.69e-03 -9.00e-04  
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## 1509 2.45e-02 1.72e-02 -3.69e-02 -8.40e-03 3.98e-03 2.84e-02 -2.26e-02  
## 1510 9.84e-04 3.35e-03 -1.07e-03 -7.18e-03 6.10e-03 -7.36e-03 -1.40e-03  
## 1511 3.52e-03 -6.46e-03 -2.42e-03 5.67e-03 1.56e-03 2.73e-03 -1.20e-02  
## 1512 -2.63e-03 -1.90e-02 -2.03e-02 -3.39e-02 2.37e-02 6.32e-03 -1.15e-02  
## 1513 -6.88e-03 9.81e-03 -1.04e-02 -1.16e-02 1.21e-02 -2.58e-03 4.48e-04  
## 1514 8.20e-03 -5.46e-03 -9.28e-04 1.87e-03 2.69e-03 -7.73e-03 -1.28e-03  
## 1515 -2.09e-02 1.78e-02 1.01e-02 -6.06e-03 -7.08e-03 1.97e-02 -2.00e-02  
## 1516 1.54e-02 -7.53e-03 -3.63e-03 -1.63e-02 1.16e-02 -1.20e-02 -2.66e-03  
## 1517 8.12e-04 1.00e-03 -1.42e-04 8.09e-04 5.10e-04 5.43e-04 -1.89e-03  
## 1518 -6.05e-02 2.33e-02 1.20e-02 -1.96e-02 -6.96e-03 -1.55e-02 1.89e-02  
## 1519 -1.39e-02 9.18e-03 -3.15e-03 3.31e-03 4.14e-03 -3.73e-03 -3.76e-03  
## 1520 8.83e-03 -7.35e-03 -6.44e-03 9.39e-03 -4.75e-04 1.60e-03 -2.36e-03  
## 1521 7.91e-03 -5.34e-03 3.56e-04 -4.89e-03 -5.07e-03 -5.65e-03 -7.15e-04  
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## 1525 -1.94e-04 2.36e-03 8.82e-04 3.17e-03 -4.12e-03 -3.63e-03 -8.74e-04  
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## 1527 1.34e-02 -5.77e-03 -1.54e-03 -2.95e-03 -6.60e-03 4.95e-03 -9.78e-03  
## 1528 5.28e-03 4.29e-03 -8.66e-04 1.91e-03 2.16e-03 -2.92e-03 -1.05e-03  
## 1529 2.24e-02 1.76e-02 1.10e-02 -8.84e-03 -3.41e-03 -8.16e-03 -2.06e-02  
## 1530 4.37e-04 3.89e-03 -2.45e-04 2.91e-04 3.26e-03 -9.21e-03 -1.97e-03  
## 1531 1.31e-02 1.02e-02 2.33e-02 -1.66e-02 9.63e-03 -4.00e-03 -2.11e-02  
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## 1542 6.55e-04 2.28e-03 3.23e-04 -2.53e-03 -1.46e-03 -4.25e-03 -9.07e-04  
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## 1554 -1.27e-02 1.22e-02 1.26e-02 -8.75e-03 -1.13e-03 -5.46e-03 9.56e-03  
## 1555 7.23e-03 -6.37e-03 -8.84e-04 1.62e-03 3.18e-03 -8.07e-03 -1.58e-03  
## 1556 -1.90e-03 3.00e-03 7.93e-04 5.92e-03 -6.26e-03 1.09e-03 5.64e-03  
## 1557 1.24e-02 -1.11e-02 9.09e-03 -3.85e-03 -2.35e-03 3.20e-03 5.30e-03  
## 1558 -3.76e-04 -7.96e-03 2.21e-04 -7.70e-03 -8.16e-03 -6.37e-03 1.24e-02  
## 1559 -4.02e-02 1.76e-02 4.18e-02 1.15e-02 -4.55e-03 -3.32e-03 2.09e-02  
## 1560 2.04e-03 -7.63e-03 -1.48e-02 -6.20e-03 2.82e-03 -3.62e-03 6.15e-03  
## 1561 -7.20e-03 -9.16e-03 -7.83e-03 9.29e-03 3.20e-04 1.08e-02 1.28e-02  
## 1562 -6.12e-05 -8.45e-04 2.09e-04 -1.11e-04 1.02e-03 8.14e-05 -9.97e-05  
## 1563 2.73e-02 -1.40e-02 -1.01e-02 -2.69e-02 1.89e-02 -2.37e-03 -1.34e-02  
## 1564 3.61e-02 2.35e-02 4.60e-02 1.82e-02 -7.47e-03 2.51e-02 -2.35e-02  
## 1565 -6.67e-03 -9.99e-03 -1.19e-03 -7.56e-03 -1.05e-02 -2.48e-03 -1.04e-03  
## 1566 8.31e-05 -1.86e-04 4.70e-05 -1.23e-04 -1.48e-04 -3.28e-04 6.30e-05  
## 1567 5.99e-03 4.98e-03 1.82e-03 7.24e-03 -1.07e-02 -7.28e-03 -1.31e-03  
## 1568 2.17e-02 2.06e-02 -4.99e-02 -1.13e-02 3.14e-03 1.82e-02 8.33e-03  
## 1569 7.38e-04 7.06e-03 -3.32e-03 -1.68e-03 -8.76e-03 1.30e-03 1.04e-02  
## 1570 1.43e-03 -3.01e-03 1.19e-03 4.46e-03 -5.47e-03 -2.36e-03 5.50e-05  
## 1571 1.79e-02 -2.33e-02 2.29e-02 -3.41e-02 -9.00e-04 -2.12e-02 -3.63e-02  
## 1572 9.76e-05 -2.56e-04 5.73e-04 -2.26e-04 2.02e-04 3.31e-04 -1.35e-05  
## 1573 -1.02e-02 1.85e-02 3.08e-03 1.22e-02 2.24e-02 3.01e-03 -2.14e-02  
## 1574 -1.21e-02 2.04e-02 4.39e-03 -6.11e-03 -7.77e-03 -3.49e-03 1.25e-02  
## 1575 1.07e-02 -1.14e-02 -2.10e-02 1.86e-02 -7.67e-03 -3.43e-04 -1.16e-02  
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## 1579 7.34e-03 -1.33e-02 -3.80e-03 -1.13e-02 -1.57e-02 -1.61e-02 -2.58e-02  
## 1580 -3.89e-03 -5.95e-03 1.32e-02 9.22e-03 -1.05e-03 3.12e-03 9.29e-03  
## 1581 3.22e-03 4.28e-03 -1.89e-03 -6.03e-03 6.16e-03 1.13e-04 -7.15e-03  
## 1582 3.73e-04 -1.06e-03 -3.08e-04 1.86e-04 -1.37e-03 -1.76e-03 2.77e-04  
## 1583 -9.68e-05 -4.15e-04 -4.57e-06 1.17e-04 3.57e-04 -5.70e-05 4.65e-04  
## 1584 -4.00e-03 -1.17e-02 2.52e-02 1.61e-02 -4.48e-03 -2.48e-03 -2.06e-03  
## 1585 1.94e-02 -1.46e-02 3.56e-02 1.04e-02 -2.45e-03 -1.73e-03 -1.39e-02  
## 1586 6.37e-04 3.15e-03 -3.00e-04 5.29e-04 2.53e-03 -6.50e-03 -1.42e-03  
## 1587 4.87e-03 4.34e-03 -9.99e-04 2.11e-03 2.12e-03 -1.71e-03 -7.21e-04  
## 1588 1.20e-02 2.15e-02 1.16e-02 7.35e-03 2.77e-02 -9.73e-03 -2.81e-02  
## 1589 6.93e-03 4.59e-03 4.72e-04 -4.90e-03 -4.61e-03 -6.85e-03 -1.18e-03  
## 1590 -1.38e-04 1.85e-03 -3.69e-04 -4.21e-03 3.59e-03 -2.75e-03 1.96e-03  
## 1591 1.10e-02 -1.25e-02 -2.64e-02 -7.26e-03 2.99e-03 1.85e-03 -1.11e-02  
## 1592 -1.88e-02 -1.89e-02 -1.82e-02 -3.99e-02 2.45e-02 -8.25e-03 2.32e-02  
## 1593 3.41e-04 7.16e-03 -5.66e-03 -8.14e-03 9.77e-03 -7.54e-03 -8.87e-04  
## 1594 1.60e-05 3.51e-04 -8.24e-05 -5.89e-04 6.08e-04 -4.77e-04 8.71e-05  
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## 1596 -1.73e-04 -8.14e-03 -1.67e-02 -5.77e-03 2.52e-03 -1.66e-03 7.85e-03  
## 1597 -5.15e-03 1.10e-02 -1.23e-02 -1.50e-02 1.44e-02 -2.66e-03 -2.18e-03  
## 1598 1.23e-02 -1.46e-02 1.28e-02 -1.14e-02 -1.87e-03 -1.17e-02 -1.71e-02  
## 1599 -3.05e-02 1.84e-02 1.06e-02 -1.21e-02 -5.20e-03 6.57e-03 4.34e-02  
## 1600 -4.61e-03 3.57e-03 -2.42e-03 4.83e-04 -5.29e-03 -8.91e-04 1.07e-03  
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## 1602 -4.53e-04 7.38e-04 2.09e-03 3.29e-04 -1.36e-03 -7.92e-04 1.37e-03  
## 1603 -1.23e-02 -1.65e-02 -3.01e-02 2.45e-02 -1.10e-02 -7.14e-04 -1.23e-02  
## 1604 3.09e-03 4.98e-03 -8.68e-04 2.32e-03 3.01e-03 -3.64e-03 -5.80e-04  
## 1605 4.45e-03 8.23e-03 -6.99e-03 -1.01e-02 9.92e-03 -3.00e-03 -9.05e-04  
## 1606 2.75e-03 -4.26e-03 -1.11e-03 1.41e-03 3.55e-03 -2.70e-04 -1.56e-03  
## 1607 -5.43e-03 2.90e-03 1.68e-03 2.93e-03 -4.43e-03 2.00e-03 4.67e-03  
## 1608 5.40e-02 -2.47e-02 1.74e-02 -1.07e-03 3.78e-02 -1.85e-03 -1.27e-02  
## 1609 2.16e-03 2.97e-03 -8.72e-04 2.08e-03 1.50e-03 4.77e-03 -4.71e-04  
## 1610 2.39e-04 -6.08e-04 3.51e-04 6.88e-04 -8.68e-04 -3.60e-04 -1.19e-03  
## 1611 2.37e-03 -1.64e-03 -9.65e-04 -2.50e-03 2.63e-03 2.15e-03 1.44e-04  
## 1612 -1.53e-07 -4.48e-04 -2.43e-05 1.61e-04 3.96e-04 -6.34e-04 -1.49e-04  
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## 1614 -1.57e-03 1.27e-02 -2.67e-02 -1.26e-02 4.81e-03 -7.70e-03 -1.08e-02  
## 1615 -1.79e-03 -3.12e-03 9.30e-04 -4.09e-03 -1.21e-03 -4.01e-04 4.44e-03  
## 1616 -2.02e-03 -9.44e-03 -5.33e-04 -9.38e-03 -1.05e-02 -1.83e-02 1.47e-02  
## 1617 1.51e-02 1.61e-02 1.45e-02 -1.33e-02 -1.35e-03 -9.12e-03 3.18e-03  
## 1618 2.16e-04 -4.71e-04 -1.77e-04 -7.37e-04 7.38e-04 4.26e-04 -2.16e-05  
## 1619 -8.82e-03 -8.78e-03 -7.06e-03 1.12e-02 2.47e-03 -9.37e-03 -2.49e-04  
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## 1621 1.37e-03 1.41e-02 1.45e-02 2.78e-02 -1.77e-02 5.33e-03 -1.66e-02  
## 1622 4.40e-03 6.22e-03 -1.31e-03 3.44e-03 2.39e-03 1.02e-04 -1.16e-02  
## 1623 -1.93e-02 1.69e-02 -1.30e-02 6.93e-03 4.56e-03 6.84e-03 1.97e-02  
## 1624 2.30e-04 -1.78e-02 3.11e-02 -2.40e-02 1.23e-02 4.66e-03 -9.30e-03  
## 1625 1.30e-03 -3.77e-03 1.95e-03 4.00e-03 -5.74e-03 -7.65e-04 -8.92e-04  
## 1626 1.56e-02 1.66e-02 2.73e-02 -1.88e-02 9.66e-03 2.95e-03 -1.35e-02  
## 1627 -1.09e-02 1.34e-02 -2.72e-02 2.09e-02 -9.89e-03 4.81e-03 8.21e-03  
## 1628 2.68e-03 -2.01e-02 1.87e-02 -2.33e-02 -2.77e-03 6.96e-03 5.47e-03  
## 1629 -9.60e-03 -1.17e-02 -3.15e-03 2.95e-03 4.29e-03 -1.09e-02 -4.29e-03  
## 1630 -2.03e-04 4.31e-04 -7.97e-05 -2.03e-05 -4.34e-04 3.14e-04 8.32e-04  
## 1631 1.01e-02 -1.47e-02 -4.85e-03 6.24e-03 6.28e-03 -9.54e-03 -1.09e-02  
## 1632 1.36e-03 -1.48e-03 -5.03e-04 1.49e-03 7.29e-04 1.77e-03 -2.23e-03  
## 1633 -5.19e-03 1.86e-03 -8.82e-04 2.22e-03 7.46e-04 5.40e-03 4.32e-03  
## 1634 -5.39e-03 -3.72e-03 -1.98e-03 3.49e-04 -4.49e-03 -2.49e-03 1.51e-03  
## 1635 1.93e-02 -1.81e-02 -4.77e-02 -1.49e-02 4.47e-03 3.86e-03 8.77e-03  
## 1636 3.00e-03 -3.92e-03 7.56e-04 -3.55e-03 -3.24e-03 -6.84e-03 2.35e-04  
## 1637 -6.56e-03 -3.95e-03 1.91e-03 3.62e-03 -5.54e-03 1.88e-03 6.39e-03  
## 1638 4.71e-03 -3.94e-03 -1.89e-03 -6.87e-03 5.80e-03 3.08e-03 -4.40e-04  
## 1639 5.53e-04 1.14e-02 -1.09e-02 -1.86e-02 1.30e-02 8.99e-03 1.43e-02  
## 1640 -2.83e-02 1.61e-02 1.52e-02 -1.59e-02 -2.38e-03 -1.92e-02 1.27e-02  
## 1641 1.80e-02 1.64e-02 -3.01e-02 -1.93e-02 7.31e-03 -9.48e-03 4.92e-03  
## 1642 -3.59e-04 1.96e-03 5.71e-06 3.98e-04 1.99e-03 -2.37e-03 2.58e-03  
## 1643 3.05e-03 -1.43e-02 7.19e-03 1.12e-02 1.79e-02 3.68e-03 -1.61e-02  
## 1644 -1.02e-02 8.62e-03 2.04e-02 1.71e-03 -1.83e-02 7.07e-03 9.25e-04  
## 1645 2.94e-03 -7.57e-03 -2.48e-03 3.99e-03 2.47e-03 8.01e-03 -2.63e-03  
## 1646 1.07e-02 1.02e-02 8.04e-03 -3.85e-03 -1.99e-03 -4.16e-03 5.18e-03  
## 1647 9.65e-03 -9.68e-03 -2.14e-02 -5.99e-03 2.41e-03 -1.47e-04 -7.99e-03  
## 1648 -4.68e-03 8.36e-03 -5.97e-03 -1.68e-02 1.27e-02 -2.38e-03 1.30e-02  
## 1649 1.15e-03 -1.33e-03 5.13e-04 1.94e-03 -2.42e-03 -2.62e-03 -6.30e-04  
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## 1652 -1.67e-03 -6.51e-03 -5.26e-03 7.30e-03 7.65e-04 5.22e-03 -4.28e-04  
## 1653 1.04e-02 6.18e-03 -3.16e-03 4.67e-03 2.26e-03 6.67e-03 -1.13e-02  
## 1654 -1.27e-02 -2.20e-02 1.40e-02 2.23e-03 3.25e-02 -4.40e-03 4.49e-03  
## 1655 2.09e-03 -2.33e-03 1.62e-04 6.41e-05 2.64e-03 -2.43e-04 2.85e-03  
## 1656 4.65e-03 3.52e-03 -2.54e-03 -5.39e-03 5.20e-03 6.91e-03 -5.83e-03  
## 1657 7.08e-03 -1.13e-02 1.68e-02 -7.78e-03 4.33e-03 -5.40e-03 -1.99e-03  
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## 1659 1.02e-02 -1.70e-02 2.27e-02 2.33e-02 -1.89e-02 -7.61e-03 4.03e-03  
## 1660 1.47e-02 1.92e-02 1.75e-02 -2.03e-02 -3.43e-04 -6.55e-03 2.59e-03  
## 1661 -2.24e-02 -2.00e-02 -1.74e-02 9.51e-03 3.04e-03 -8.46e-05 -6.21e-03  
## 1662 -1.17e-03 -2.95e-03 2.74e-04 1.10e-03 2.25e-03 -6.55e-03 5.21e-04  
## 1663 8.67e-03 6.76e-03 -1.87e-03 3.36e-03 3.53e-03 -1.01e-02 -1.14e-02  
## 1664 2.16e-02 -9.32e-03 -7.50e-03 1.05e-02 9.48e-04 8.16e-03 -5.73e-03  
## 1665 -1.55e-02 -1.91e-02 -1.65e-02 9.33e-03 3.08e-03 -4.81e-03 -8.13e-03  
## 1666 2.64e-03 -1.63e-02 -5.42e-02 -3.09e-02 5.02e-02 1.20e-02 1.24e-02  
## 1667 1.66e-03 2.24e-03 -1.11e-03 2.30e-04 -2.96e-03 -1.72e-03 3.35e-03  
## 1668 7.27e-04 -6.18e-03 -3.32e-04 -3.90e-04 6.31e-03 -3.24e-03 7.09e-03  
## 1669 -6.56e-02 1.90e-02 2.13e-02 2.98e-02 -2.54e-02 -5.54e-03 1.50e-02  
## 1670 6.01e-04 -2.61e-03 3.76e-04 -1.67e-03 -2.04e-03 -3.52e-03 -3.29e-03  
## 1671 1.75e-02 1.73e-02 1.28e-02 -1.19e-02 -2.73e-03 -1.05e-02 -2.03e-02  
## 1672 -2.78e-03 -1.75e-02 -1.38e-02 8.00e-03 4.76e-03 5.49e-04 -8.97e-03  
## 1673 6.04e-04 4.11e-03 8.81e-04 -3.71e-03 -3.06e-03 -1.14e-02 -5.76e-03  
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## 1676 2.19e-03 2.02e-03 -4.49e-04 -5.55e-04 -2.19e-03 4.23e-03 -3.12e-03  
## 1677 6.33e-05 1.87e-03 1.02e-03 2.06e-03 -3.05e-03 -4.19e-03 2.02e-03  
## 1678 -2.92e-04 -4.83e-04 3.46e-04 4.63e-04 -7.08e-04 1.13e-04 7.51e-04  
## 1679 1.46e-05 2.05e-04 5.35e-05 -1.42e-04 -1.54e-04 -3.14e-04 5.80e-05  
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## 1681 -2.92e-02 1.55e-02 3.02e-02 -2.39e-02 1.10e-02 2.57e-03 2.19e-02  
## 1682 -3.37e-02 2.43e-02 5.08e-03 1.63e-02 2.91e-02 -6.23e-03 4.66e-02  
## 1683 4.11e-03 5.03e-03 2.35e-04 -4.30e-03 -4.60e-03 -7.75e-03 -7.83e-03  
## 1684 -9.18e-05 -1.41e-04 -5.60e-06 1.07e-04 9.57e-05 7.98e-05 4.38e-05  
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## 1686 9.22e-04 5.33e-03 -4.13e-03 5.15e-04 -7.83e-03 2.24e-03 9.27e-04  
## 1687 7.61e-04 -2.86e-03 -2.98e-04 6.24e-04 2.44e-03 -5.23e-03 -1.35e-03  
## 1688 -1.54e-02 7.38e-03 -2.97e-03 -4.11e-03 -9.22e-03 1.03e-03 1.59e-02  
## 1689 4.05e-04 -1.82e-03 1.27e-03 1.66e-03 -2.45e-03 3.16e-03 -5.24e-04  
## 1690 8.97e-03 1.69e-02 9.07e-03 -4.66e-03 -5.28e-03 2.43e-02 -2.11e-02  
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## 1692 5.39e-03 -9.76e-03 8.46e-03 -3.88e-03 -1.47e-03 -1.35e-03 5.91e-03  
## 1693 -3.17e-03 5.78e-03 -1.32e-03 3.86e-04 5.17e-03 -1.57e-03 -1.27e-03  
## 1694 -2.64e-03 1.19e-03 -4.93e-04 1.39e-05 -1.55e-03 -6.71e-04 7.73e-04  
## 1695 1.65e-03 -2.95e-03 -7.94e-04 2.28e-03 1.46e-03 3.75e-03 1.61e-04  
## 1696 5.75e-04 -1.27e-03 1.19e-04 -1.18e-03 -8.71e-04 -8.06e-04 -4.48e-04  
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## 1698 -2.90e-02 1.26e-02 1.55e-02 2.27e-02 -1.69e-02 -2.70e-03 1.10e-02  
## 1699 -1.84e-03 1.04e-02 -4.79e-03 3.36e-03 3.74e-03 -6.67e-03 1.48e-02  
## 1700 -7.64e-03 -8.43e-03 3.38e-03 -1.32e-02 1.98e-02 -6.62e-03 8.07e-03  
## 1701 -2.41e-03 -7.95e-03 1.45e-02 -7.71e-03 4.41e-03 4.73e-03 -9.30e-04  
## 1702 -2.10e-03 1.96e-03 -1.20e-03 2.79e-03 5.81e-04 -1.56e-03 2.96e-04  
## 1703 -2.29e-02 -1.90e-02 4.20e-02 1.23e-02 -5.39e-03 7.35e-04 1.76e-02  
## 1704 -3.38e-02 -1.82e-02 5.08e-03 -6.37e-03 -6.19e-03 -8.25e-03 1.83e-02  
## 1705 -2.41e-03 7.96e-03 2.19e-02 8.71e-03 -1.48e-04 -7.60e-03 -1.55e-02  
## 1706 8.35e-03 -1.73e-02 -1.13e-02 7.29e-03 3.27e-03 6.21e-03 -1.28e-02  
## 1707 -8.59e-05 1.46e-04 9.46e-05 1.67e-04 -2.38e-04 -3.26e-04 1.83e-04  
## 1708 -4.22e-03 -8.91e-03 -4.52e-03 6.31e-03 3.45e-03 -2.44e-03 -1.54e-02  
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## 1710 -1.63e-04 -8.58e-04 4.64e-04 -1.20e-03 -2.59e-04 -7.17e-04 1.36e-03  
## 1711 3.37e-04 1.42e-03 -2.39e-04 5.57e-04 1.07e-03 -1.08e-03 -5.38e-04  
## 1712 1.16e-03 1.31e-02 -6.39e-03 5.31e-03 3.76e-03 -6.44e-03 -7.85e-03  
## 1713 1.75e-03 -3.22e-03 1.41e-03 3.86e-03 -5.59e-03 -9.04e-03 -1.55e-03  
## 1714 2.29e-03 -2.65e-03 -2.40e-04 1.45e-03 1.61e-03 -3.46e-03 -2.45e-06  
## 1715 3.21e-02 2.22e-02 -1.31e-02 7.73e-03 5.47e-03 3.00e-02 1.23e-02  
## 1716 6.92e-03 -1.93e-02 4.55e-02 1.43e-02 -5.15e-03 -3.22e-03 1.49e-02  
## 1717 5.38e-03 1.53e-02 1.02e-02 -7.42e-03 -4.43e-03 -9.47e-04 -1.87e-02  
## 1718 7.10e-04 -8.47e-03 -5.93e-03 8.83e-03 2.16e-03 6.45e-03 1.26e-02  
## 1719 1.72e-04 -2.46e-03 8.16e-04 -2.24e-03 -1.72e-03 -6.31e-03 5.71e-04  
## 1720 5.15e-05 -2.17e-02 -2.35e-02 -4.43e-02 2.91e-02 7.39e-03 -1.51e-02  
## 1721 -2.53e-03 -2.24e-02 4.49e-02 2.14e-02 -9.72e-03 9.74e-03 -1.75e-02  
## 1722 -8.55e-03 8.55e-03 -7.17e-03 -1.58e-02 1.24e-02 3.16e-03 -1.60e-02  
## 1723 1.07e-02 9.27e-03 -4.40e-03 6.47e-03 3.01e-03 7.92e-03 -1.94e-02  
## 1724 9.37e-05 -2.39e-04 2.14e-06 2.54e-04 1.31e-04 -4.82e-05 -3.67e-06  
## 1725 -1.63e-03 2.28e-03 -2.19e-03 -2.40e-03 2.90e-03 -6.07e-04 4.65e-04  
## 1726 -4.74e-03 -1.52e-02 8.01e-03 -5.33e-03 -5.57e-03 1.10e-02 3.50e-02  
## 1727 1.54e-02 1.14e-02 -2.48e-02 -6.75e-03 3.53e-03 3.99e-03 -1.17e-02  
## 1728 -1.17e-02 8.03e-03 2.00e-02 2.37e-03 -1.62e-02 -2.91e-03 2.53e-05  
## 1729 5.89e-03 5.65e-03 -7.52e-04 1.36e-03 3.20e-03 -8.38e-03 -1.93e-03  
## 1730 4.85e-03 -1.47e-02 1.01e-02 -6.31e-03 -4.24e-03 9.52e-03 -1.84e-02  
## 1731 -3.76e-04 -2.37e-03 5.55e-04 -5.12e-04 2.80e-03 3.78e-03 -7.23e-04  
## 1732 -3.15e-02 2.65e-02 3.35e-03 -6.37e-03 -1.34e-02 3.64e-02 7.62e-03  
## 1733 -3.96e-03 -1.29e-02 -7.90e-03 -2.54e-02 1.70e-02 -9.43e-03 -4.85e-03  
## 1734 -7.39e-04 -3.37e-03 -3.35e-03 -3.69e-03 3.86e-03 -1.51e-03 7.51e-04  
## 1735 1.89e-02 -1.28e-02 9.07e-03 -3.77e-03 -3.27e-03 2.99e-03 -1.47e-02  
## 1736 6.51e-03 3.05e-03 -5.57e-04 -1.48e-03 -3.39e-03 3.76e-03 -3.68e-04  
## 1737 2.26e-02 1.35e-02 -8.79e-03 8.17e-03 2.78e-03 -2.59e-03 -3.02e-02  
## 1738 -3.69e-03 1.07e-02 8.93e-03 -4.65e-03 -3.33e-03 -5.63e-04 -1.13e-02  
## 1739 2.64e-04 -1.33e-03 7.02e-04 1.57e-03 -2.21e-03 -2.61e-03 1.51e-03  
## 1740 1.22e-02 -8.54e-03 -8.77e-03 -1.29e-02 1.26e-02 -2.69e-03 1.12e-02  
## 1741 -5.16e-04 9.30e-04 -2.41e-05 2.28e-04 8.22e-04 -1.20e-03 -3.30e-04  
## 1742 2.93e-04 -6.72e-04 -4.14e-04 1.07e-03 1.59e-04 -9.01e-04 1.53e-04  
## 1743 -5.39e-03 1.01e-02 7.04e-03 8.76e-03 1.48e-02 5.25e-03 5.92e-03  
## 1744 2.55e-04 1.56e-03 5.56e-04 2.19e-03 -2.70e-03 -1.80e-03 -6.63e-04  
## 1745 9.57e-03 1.13e-02 2.35e-02 1.64e-02 -6.19e-03 4.90e-03 -6.44e-03  
## 1746 -8.10e-03 -6.18e-03 -2.96e-03 6.68e-03 1.50e-03 -2.28e-03 1.05e-02  
## 1747 1.60e-03 -1.37e-02 9.23e-03 -6.84e-03 -3.08e-03 -9.20e-03 7.52e-03  
## 1748 -3.72e-03 3.88e-03 -1.58e-03 -6.79e-03 6.22e-03 -2.41e-03 -6.56e-05  
## 1749 -3.50e-04 -6.29e-04 1.39e-03 -4.48e-04 5.17e-04 -7.53e-04 2.63e-04  
## 1750 7.97e-04 1.41e-03 -6.31e-04 1.70e-03 5.40e-04 1.12e-03 -2.89e-04  
## 1751 7.66e-03 -8.67e-03 -2.35e-03 3.17e-03 3.33e-03 5.62e-04 -4.82e-03  
## 1752 1.66e-03 -5.35e-03 1.38e-02 6.49e-03 -1.05e-03 2.02e-03 -1.98e-03  
## 1753 -4.74e-03 2.75e-03 -6.30e-04 -6.72e-04 -3.09e-03 -1.96e-03 5.59e-03  
## 1754 1.18e-03 3.11e-03 5.43e-04 -3.75e-03 -1.92e-03 -7.61e-03 -1.40e-03  
## 1755 3.50e-03 4.06e-03 -9.08e-04 2.04e-03 2.15e-03 1.02e-03 -9.58e-04  
## 1756 -2.67e-03 3.14e-03 -8.82e-04 -7.40e-04 -4.07e-03 1.47e-03 -5.12e-03  
## 1757 1.20e-04 7.34e-04 -2.44e-04 8.06e-04 4.20e-04 9.04e-04 -9.65e-04  
## 1758 5.37e-03 1.41e-02 -1.01e-02 -5.50e-03 -1.88e-02 -5.45e-04 -4.62e-03  
## 1759 -5.37e-03 -1.34e-02 -5.15e-03 3.63e-03 4.26e-03 -1.21e-02 -5.40e-03  
## 1760 1.10e-03 -2.51e-03 -2.16e-04 1.75e-04 2.81e-03 -1.21e-03 3.47e-03  
## 1761 6.80e-03 -6.79e-03 -7.78e-03 -7.69e-03 8.56e-03 -6.44e-03 -8.95e-04  
## 1762 4.15e-03 -3.66e-03 8.13e-05 -2.41e-03 -3.37e-03 -6.09e-04 1.89e-04  
## 1763 3.73e-04 -6.16e-04 -5.21e-04 -5.99e-04 8.42e-04 -1.02e-03 1.31e-04  
## 1764 -2.01e-03 -2.21e-03 -8.96e-04 2.43e-03 5.07e-04 3.46e-03 -8.44e-05  
## 1765 1.90e-03 6.33e-03 -8.87e-03 -6.40e-03 6.19e-03 1.21e-03 -1.09e-03  
## 1766 -2.23e-02 1.63e-02 -3.31e-02 -2.30e-02 7.98e-03 -7.65e-03 1.00e-02  
## 1767 6.77e-03 -9.96e-03 -2.09e-02 -8.15e-03 3.52e-03 -5.35e-03 -8.41e-03  
## 1768 1.82e-02 -1.28e-02 7.88e-03 -4.42e-03 -4.48e-03 -3.17e-03 -1.36e-02  
## 1769 -1.47e-03 2.20e-03 5.98e-05 1.61e-04 2.03e-03 -4.93e-03 -8.58e-04  
## 1770 5.19e-03 1.00e-02 -4.61e-04 -1.06e-02 -1.07e-02 -8.93e-03 -4.96e-03  
## 1771 -3.58e-03 4.47e-03 1.09e-02 7.55e-03 -1.27e-03 -4.77e-03 7.87e-05  
## 1772 3.13e-04 1.07e-03 2.33e-03 -8.36e-04 1.09e-03 1.97e-03 -1.36e-03  
## 1773 3.74e-03 -9.05e-03 -3.90e-03 5.82e-03 2.07e-03 3.96e-03 -1.69e-02  
## 1774 2.62e-04 -2.73e-03 1.91e-04 -2.23e-05 2.55e-03 -6.37e-03 3.01e-03  
## 1775 1.52e-02 -1.66e-02 -1.20e-02 6.99e-03 7.16e-03 1.25e-02 1.61e-02  
## 1776 -2.95e-02 3.03e-02 -1.16e-02 -5.03e-02 5.91e-02 3.59e-02 -1.82e-03  
## 1777 -3.69e-03 1.01e-02 1.79e-02 -8.57e-03 6.47e-03 -7.27e-03 -2.73e-03  
## 1778 7.95e-03 -1.30e-02 3.07e-02 1.19e-02 -4.55e-03 7.40e-03 -2.71e-02  
## 1779 1.84e-02 -1.27e-02 3.18e-03 -1.88e-02 3.07e-02 1.89e-03 -1.66e-02  
## 1780 -2.97e-02 2.66e-02 3.91e-03 -7.41e-03 -1.32e-02 2.89e-02 6.37e-03  
## 1781 -4.56e-03 -3.11e-03 1.75e-04 -2.81e-04 3.34e-03 2.30e-03 4.48e-03  
## 1782 -8.64e-03 2.29e-02 1.52e-02 -1.89e-02 -2.90e-03 -2.07e-02 -2.75e-02  
## 1783 8.08e-03 -1.22e-02 2.43e-02 -1.29e-02 8.81e-03 -1.33e-02 -4.57e-03  
## 1784 -3.07e-04 5.14e-04 2.48e-04 7.18e-04 -8.88e-04 -6.24e-04 -1.67e-04  
## 1785 -9.63e-03 5.87e-03 -6.14e-03 -9.42e-03 8.55e-03 1.40e-02 1.16e-02  
## 1786 1.38e-02 1.53e-02 1.07e-02 -8.19e-03 -2.78e-03 -7.77e-04 -1.73e-02  
## 1787 1.32e-03 -3.00e-03 -1.80e-03 -4.49e-03 4.47e-03 2.01e-03 -3.30e-04  
## 1788 1.14e-02 5.86e-03 -1.99e-03 -1.84e-03 -6.64e-03 1.51e-03 -1.12e-02  
## 1789 -2.92e-04 -2.89e-03 2.18e-04 -7.97e-05 2.66e-03 -6.34e-03 3.15e-03  
## 1790 -3.73e-03 4.52e-03 -2.06e-04 -4.40e-04 4.50e-03 -5.48e-04 6.01e-03  
## 1791 5.53e-03 1.46e-02 1.54e-02 2.49e-02 -1.66e-02 -6.66e-03 6.82e-03  
## 1792 2.45e-02 -1.19e-02 -8.68e-03 -2.17e-02 1.60e-02 2.95e-03 -2.81e-02  
## 1793 -6.81e-05 -3.65e-04 -8.60e-07 2.57e-04 2.62e-04 -2.47e-04 8.91e-05  
## 1794 1.89e-03 2.86e-03 -8.43e-04 2.28e-03 1.48e-03 -3.20e-05 -4.14e-03  
## 1795 -1.13e-02 1.01e-02 8.90e-03 -6.41e-03 -2.50e-03 -8.13e-03 9.14e-03  
## 1796 -2.45e-03 1.18e-02 -4.73e-03 3.52e-03 4.17e-03 -1.74e-02 -6.06e-03  
## 1797 -3.05e-02 1.46e-02 -1.20e-02 8.70e-03 3.00e-03 1.06e-02 2.07e-02  
## 1798 -5.63e-03 5.52e-03 4.87e-04 -4.91e-03 -4.26e-03 -1.27e-02 9.52e-03  
## 1799 8.62e-04 -3.61e-03 -8.13e-04 2.95e-03 2.06e-03 2.31e-04 5.80e-03  
## 1800 3.59e-03 -2.93e-03 -1.23e-04 -1.67e-03 -2.88e-03 3.46e-03 -3.49e-05  
## 1801 2.75e-03 -4.51e-03 5.07e-04 -5.08e-04 4.73e-03 -1.82e-03 5.75e-03  
## 1802 1.65e-04 7.05e-04 5.58e-05 -3.25e-04 -5.80e-04 -4.85e-04 -8.76e-04  
## 1803 1.69e-02 1.46e-02 8.90e-03 -5.03e-03 -3.49e-03 -2.16e-03 -1.63e-02  
## 1804 7.25e-03 1.52e-02 1.41e-02 -1.02e-02 -2.51e-03 -8.06e-03 6.40e-03  
## 1805 1.26e-02 -1.32e-02 -2.23e-02 1.75e-02 -7.53e-03 -3.54e-03 5.33e-03  
## 1806 -1.36e-04 2.87e-04 1.20e-04 -2.85e-05 3.85e-04 4.31e-05 -7.76e-05  
## 1807 -1.68e-02 -1.95e-02 3.71e-02 1.81e-02 -8.35e-03 8.95e-03 -9.89e-03  
## 1808 -1.98e-03 1.87e-02 -1.69e-02 -3.06e-02 2.35e-02 -7.55e-03 1.99e-02  
## 1809 2.72e-02 1.48e-02 -4.12e-03 4.57e-03 5.09e-03 6.01e-03 -1.46e-02  
## 1810 -3.26e-04 1.53e-03 5.04e-04 -1.39e-03 -1.12e-03 -3.45e-03 3.80e-04  
## 1811 1.08e-03 3.12e-03 1.34e-03 3.59e-03 -5.18e-03 -8.35e-03 -1.63e-03  
## 1812 5.88e-03 5.68e-03 -7.66e-04 1.37e-03 3.21e-03 -8.41e-03 -1.90e-03  
## 1813 -1.10e-02 5.17e-03 1.01e-02 -3.42e-03 4.15e-03 -7.28e-03 1.39e-03  
## 1814 -1.35e-02 6.78e-03 -5.25e-03 -7.03e-04 -1.10e-02 5.52e-03 1.91e-03  
## 1815 1.28e-04 1.60e-04 9.12e-06 2.15e-05 1.49e-04 -9.01e-05 -3.16e-04  
## 1816 -1.04e-02 -1.18e-02 -6.18e-03 -2.30e-02 1.58e-02 -8.56e-03 -2.61e-03  
## 1817 2.26e-02 -1.44e-02 -2.63e-02 1.96e-02 -9.13e-03 -4.85e-03 4.21e-03  
## 1818 8.91e-03 1.64e-02 7.14e-03 -3.06e-02 3.85e-02 -5.81e-03 3.18e-03  
## 1819 1.36e-02 -1.75e-02 1.34e-02 -9.53e-03 -3.99e-03 -3.63e-03 -1.97e-02  
## 1820 8.88e-04 -3.99e-03 -1.52e-04 1.39e-04 3.53e-03 -1.09e-02 -2.21e-03  
## 1821 2.88e-03 -9.80e-03 -6.16e-03 7.04e-03 2.42e-03 5.90e-03 -1.89e-02  
## 1822 -6.74e-03 8.86e-03 -1.25e-02 -1.07e-02 9.39e-03 5.07e-03 1.11e-04  
## 1823 9.05e-03 -8.84e-03 -4.17e-03 -2.78e-03 -1.14e-02 7.59e-03 1.37e-02  
## 1824 8.89e-04 2.61e-03 -8.25e-04 2.29e-03 1.44e-03 2.98e-03 -4.00e-03  
## 1825 -2.42e-02 1.95e-02 -1.67e-02 8.72e-03 3.72e-03 -1.58e-03 -8.23e-03  
## 1826 4.36e-05 -5.76e-05 -2.90e-05 -1.12e-04 1.12e-04 8.50e-06 -2.06e-05  
## 1827 1.63e-02 -8.36e-03 2.09e-02 -1.40e-02 8.15e-03 2.87e-03 -1.99e-02  
## 1828 1.51e-02 -1.82e-02 -3.62e-02 2.13e-02 -1.32e-02 -3.70e-02 -2.89e-02  
## 1829 -2.40e-03 8.82e-03 -1.65e-03 2.44e-03 4.43e-03 -6.92e-03 -4.39e-03  
## 1830 2.58e-02 -1.77e-02 -4.96e-02 -1.05e-02 2.56e-03 2.06e-02 8.73e-03  
## 1831 -1.44e-03 -1.32e-02 -8.22e-03 -2.76e-02 1.80e-02 -1.68e-02 -5.26e-03  
## 1832 1.28e-03 -1.54e-02 1.01e-02 -9.54e-03 -2.66e-03 -1.88e-02 -1.60e-02  
## 1833 -3.96e-02 -2.71e-02 4.12e-03 -7.81e-03 -1.37e-02 5.25e-02 7.62e-03  
## 1834 -1.20e-02 1.23e-02 2.36e-02 1.81e-02 -7.06e-03 7.66e-03 -3.62e-03  
## 1835 5.48e-03 -5.85e-03 -7.34e-04 2.65e-03 4.21e-03 -1.96e-02 -9.76e-03  
## 1836 1.03e-02 -3.12e-02 6.06e-03 -3.67e-03 3.76e-02 4.09e-02 -8.53e-03  
## 1837 1.07e-03 -1.41e-03 -8.44e-04 -1.90e-03 2.17e-03 2.85e-03 -1.99e-03  
## 1838 9.21e-03 6.89e-03 -3.69e-03 6.99e-03 1.71e-03 1.11e-02 -4.02e-03  
## 1839 4.63e-04 3.99e-03 -2.19e-04 2.02e-04 3.35e-03 -1.04e-02 -2.02e-03  
## 1840 -8.93e-04 -1.45e-03 7.57e-04 1.82e-03 -2.28e-03 -1.26e-03 3.70e-04  
## 1841 -4.50e-03 3.55e-03 -2.85e-03 4.65e-03 1.03e-03 8.43e-03 6.96e-03  
## 1842 3.49e-04 2.93e-03 -2.24e-04 1.47e-03 1.97e-03 -1.42e-03 -1.84e-04  
## 1843 -9.43e-05 2.58e-03 -3.21e-04 6.51e-04 2.10e-03 -3.24e-03 -1.10e-03  
## 1844 2.20e-04 -1.55e-03 -2.30e-04 1.10e-03 8.58e-04 1.67e-03 1.08e-04  
## 1845 1.52e-02 -1.89e-02 8.77e-03 -7.49e-03 -6.71e-03 8.46e-03 7.55e-03  
## 1846 1.04e-02 -6.38e-03 1.32e-02 -7.10e-03 4.81e-03 3.97e-03 -1.28e-02  
## 1847 4.61e-03 1.64e-02 1.40e-02 3.39e-02 -2.08e-02 2.71e-02 -2.19e-02  
## 1848 2.20e-02 -1.96e-02 6.63e-03 -5.73e-03 -8.20e-03 2.31e-02 6.32e-03  
## 1849 1.95e-02 2.19e-02 6.19e-03 -5.56e-03 -7.93e-03 1.96e-02 6.88e-03  
## 1850 -8.35e-03 -1.56e-02 -3.55e-02 -9.56e-03 3.96e-03 1.89e-02 -1.32e-02  
## 1851 1.04e-05 3.41e-04 2.62e-05 -1.54e-04 -2.95e-04 2.80e-04 1.11e-04  
## 1852 -1.31e-02 2.47e-02 -6.06e-02 -2.76e-02 5.51e-03 -1.99e-02 8.13e-03  
## 1853 3.88e-03 5.40e-03 1.22e-03 6.37e-03 -8.36e-03 -4.05e-03 -1.80e-03  
## 1854 6.30e-03 1.74e-02 1.61e-02 3.33e-02 -2.37e-02 -2.62e-03 -2.26e-02  
## 1855 2.19e-02 -2.03e-02 2.02e-02 -2.18e-02 -1.17e-03 -2.62e-02 -2.98e-02  
## 1856 2.43e-03 -3.19e-03 -2.31e-04 3.78e-04 2.87e-03 -1.08e-02 -1.72e-03  
## 1857 2.35e-02 2.18e-02 6.11e-03 -5.05e-03 -7.86e-03 1.48e-02 6.07e-03  
## 1858 5.09e-03 -8.61e-03 1.86e-02 1.02e-02 -2.62e-03 1.67e-02 1.05e-02  
## 1859 4.65e-03 6.24e-03 -2.45e-03 -1.26e-02 1.04e-02 -1.29e-02 -1.01e-02  
## 1860 -8.71e-03 -1.06e-02 2.28e-02 -1.41e-02 8.71e-03 -1.64e-03 -2.99e-03  
## 1861 -1.36e-02 1.35e-02 2.74e-02 1.89e-02 -4.86e-03 -3.06e-03 -4.55e-03  
## 1862 2.33e-03 -4.10e-03 -1.73e-03 2.15e-04 -5.72e-03 -3.08e-03 6.32e-04  
## 1863 5.99e-03 1.35e-02 8.62e-03 -5.05e-03 -5.01e-03 -6.04e-03 -1.28e-02  
## 1864 -2.58e-03 1.19e-02 -4.78e-03 3.54e-03 4.18e-03 -1.74e-02 -5.98e-03  
## 1865 1.15e-04 -2.69e-03 1.75e-04 -1.59e-05 2.49e-03 -6.60e-03 3.07e-03  
## 1866 -1.09e-02 1.22e-02 -5.20e-03 3.08e-03 4.81e-03 -1.08e-02 -5.71e-03  
## 1867 8.15e-03 -9.33e-03 -6.78e-03 -1.74e-03 -1.36e-02 7.69e-03 -2.21e-03  
## 1868 -4.79e-04 1.47e-03 -2.64e-04 6.20e-04 1.21e-03 1.89e-04 -5.69e-04  
## 1869 -1.19e-03 3.38e-03 2.66e-04 -3.33e-04 3.31e-03 -1.59e-03 -7.20e-04  
## 1870 1.94e-03 -1.95e-03 -7.76e-04 -3.05e-03 3.54e-03 -1.24e-03 -3.40e-03  
## 1871 7.85e-05 2.12e-04 -1.63e-04 -1.89e-04 2.71e-04 -3.10e-04 3.00e-05  
## 1872 -1.48e-02 1.30e-02 -1.50e-02 -1.74e-02 1.58e-02 -8.44e-03 -4.35e-04  
## 1873 -3.28e-03 -5.01e-03 9.08e-04 -7.13e-03 -2.37e-03 3.49e-04 7.89e-03  
## 1874 1.30e-02 7.34e-03 -1.86e-03 2.15e-03 3.35e-03 -1.20e-02 -2.52e-03  
## 1875 1.89e-02 -1.27e-02 9.06e-03 -3.77e-03 -3.25e-03 2.92e-03 -1.47e-02  
## 1876 5.33e-03 -9.39e-03 8.16e-03 -3.61e-03 -1.42e-03 -1.50e-03 5.52e-03  
## 1877 7.91e-03 1.03e-02 -6.34e-03 6.41e-03 2.92e-03 7.33e-04 1.25e-02  
## 1878 5.09e-03 7.71e-03 -1.72e-03 -4.98e-03 -9.57e-03 5.43e-03 -2.86e-03  
## 1879 -3.19e-02 1.72e-02 -3.86e-02 2.42e-02 -1.42e-02 1.74e-03 9.26e-03  
## 1880 -1.42e-03 3.46e-03 -6.97e-04 2.26e-03 1.90e-03 -1.14e-03 -3.34e-04  
## 1881 1.37e-02 6.09e-03 -2.74e-04 -3.97e-03 -6.39e-03 2.66e-03 -3.09e-03  
## 1882 8.47e-04 -4.59e-03 -5.76e-04 2.45e-04 4.78e-03 -3.27e-03 -1.61e-03  
## 1883 2.45e-02 1.62e-02 1.18e-02 -8.87e-03 -3.06e-03 -1.77e-03 4.90e-03  
## 1884 -1.66e-03 -5.63e-03 -1.65e-03 3.72e-03 2.52e-03 -3.26e-03 -1.18e-03  
## 1885 -1.30e-02 1.18e-02 -8.11e-03 4.86e-03 4.14e-03 -5.85e-03 1.84e-02  
## 1886 -5.75e-02 2.48e-02 1.95e-04 2.52e-02 2.58e-02 4.63e-02 6.39e-03  
## 1887 2.42e-02 2.04e-02 -4.88e-02 -1.02e-02 2.80e-03 1.65e-02 8.29e-03  
## 1888 8.24e-03 1.86e-02 4.03e-02 1.19e-02 -3.93e-03 -1.87e-02 1.74e-02  
## 1889 1.97e-02 1.12e-02 -7.07e-04 1.81e-02 -2.37e-02 2.99e-03 -2.46e-02  
## 1890 -1.95e-03 -1.26e-02 -1.22e-02 -1.77e-02 1.44e-02 1.63e-02 1.71e-02  
## 1891 -2.12e-03 -2.63e-03 -4.77e-04 -6.35e-03 5.43e-03 9.60e-04 3.60e-03  
## 1892 3.60e-03 2.56e-03 -7.67e-04 2.09e-03 9.30e-04 3.12e-03 -5.10e-03  
## 1893 -3.90e-03 -2.26e-02 -4.74e-02 3.23e-02 -1.84e-02 1.26e-03 9.34e-03  
## 1894 1.59e-02 1.20e-02 -2.65e-02 -8.15e-03 3.85e-03 -2.46e-03 -1.16e-02  
## 1895 6.10e-03 1.73e-02 -1.42e-02 1.02e-02 2.44e-03 8.75e-03 1.50e-02  
## 1896 -3.37e-04 2.30e-03 8.25e-04 -2.31e-03 -1.63e-03 -6.73e-03 4.92e-04  
## 1897 1.85e-03 -3.67e-03 -2.11e-04 1.57e-03 2.26e-03 -4.97e-03 -3.83e-05  
## 1898 -5.76e-03 -3.78e-03 2.18e-04 -5.30e-04 4.08e-03 1.53e-03 5.65e-03  
## 1899 -9.20e-03 2.33e-02 -1.79e-02 8.78e-03 5.13e-03 1.48e-02 2.03e-02  
## 1900 2.91e-03 -2.25e-02 2.03e-02 -2.48e-02 -4.19e-04 -2.47e-02 4.95e-03  
## 1901 4.45e-03 -4.68e-03 -1.80e-03 3.90e-03 2.20e-03 5.16e-03 -7.41e-03  
## 1902 -6.91e-03 4.09e-03 -1.51e-03 3.13e-03 1.94e-03 2.79e-03 8.05e-03  
## 1903 3.25e-02 -9.71e-03 -2.18e-03 4.18e-03 5.05e-03 7.10e-03 -1.11e-02  
## 1904 2.46e-03 -2.97e-03 5.42e-04 -3.65e-03 -2.00e-03 -8.40e-03 -1.34e-03  
## 1905 2.00e-03 3.47e-03 7.15e-04 -3.46e-03 -3.02e-03 -6.65e-03 1.78e-04  
## 1906 -7.40e-04 -1.28e-02 -4.62e-03 -1.21e-02 -1.45e-02 -2.01e-02 1.85e-02  
## 1907 1.15e-03 2.78e-03 5.31e-04 -4.80e-04 3.13e-03 3.46e-03 -1.44e-03  
## 1908 1.72e-03 1.30e-03 -9.02e-05 -5.37e-04 -1.28e-03 1.05e-03 1.43e-04  
## 1909 -6.70e-03 -7.91e-03 -6.79e-03 9.95e-03 8.65e-04 6.92e-04 3.47e-04  
## 1910 8.02e-03 -1.29e-02 -3.13e-03 4.29e-03 5.22e-03 -2.14e-03 -2.80e-02  
## 1911 -1.26e-03 7.45e-03 -2.45e-03 4.10e-03 2.35e-03 2.75e-03 -2.11e-03  
## 1912 -2.05e-03 2.07e-02 2.06e-02 -2.15e-02 -4.77e-04 -5.81e-03 5.92e-03  
## 1913 -3.02e-03 3.04e-03 -7.63e-03 2.10e-03 -2.98e-03 1.33e-03 4.96e-03  
## 1914 -1.86e-04 4.18e-03 -4.58e-04 2.26e-03 1.89e-03 3.18e-03 -1.11e-03  
## 1915 1.52e-02 -1.86e-02 6.38e-03 -5.73e-03 -7.95e-03 9.84e-03 9.88e-03  
## 1916 1.11e-02 5.46e-03 -3.06e-03 -9.65e-03 7.74e-03 -2.57e-03 -1.24e-03  
## 1917 -8.01e-04 -9.65e-04 1.59e-04 -8.98e-05 1.16e-03 2.94e-04 1.51e-03  
## 1918 -1.68e-03 9.79e-03 -3.00e-03 -6.63e-03 -1.25e-02 3.03e-03 -2.00e-02  
## 1919 -1.41e-04 -1.23e-03 -2.37e-04 6.01e-04 9.69e-04 6.02e-04 -4.41e-04  
## 1920 -1.08e-02 -1.79e-02 4.06e-02 -4.61e-03 -3.26e-02 -6.05e-03 -5.49e-03  
## 1921 1.44e-04 -1.38e-03 -9.29e-05 -8.58e-05 -1.47e-03 -4.11e-04 -1.74e-03  
## 1922 -4.79e-03 -1.71e-02 1.47e-02 2.97e-03 2.85e-02 -8.33e-03 6.43e-03  
## 1923 -2.28e-02 -2.02e-02 1.30e-02 3.93e-03 3.16e-02 -3.90e-04 5.36e-03  
## 1924 -5.37e-02 2.88e-02 3.16e-03 1.79e-02 3.00e-02 -2.44e-02 4.82e-03  
## 1925 -9.45e-03 2.04e-02 -1.09e-02 -1.95e-02 -2.64e-02 -6.36e-04 2.21e-02  
## 1926 1.21e-02 7.38e-03 -1.84e-03 2.05e-03 3.51e-03 -1.10e-02 -2.65e-03  
## 1927 8.94e-03 -8.15e-03 -8.67e-03 -1.03e-02 9.95e-03 -5.77e-03 -1.27e-03  
## 1928 5.79e-03 5.91e-03 -8.59e-04 1.43e-03 3.32e-03 -8.56e-03 -1.72e-03  
## 1929 2.73e-03 4.49e-03 -8.19e-04 2.28e-03 2.70e-03 -2.54e-03 -5.04e-04  
## 1930 -4.92e-03 1.42e-02 9.80e-03 -5.54e-03 -5.48e-03 -3.56e-03 -1.51e-02  
## 1931 1.52e-03 -1.35e-03 -4.50e-04 1.34e-03 6.52e-04 2.30e-03 7.16e-05  
## 1932 -6.20e-04 6.31e-04 3.02e-04 9.78e-04 -1.02e-03 -3.22e-04 -2.32e-05  
## 1933 5.82e-05 -1.67e-03 5.13e-04 -1.36e-03 -1.18e-03 -3.33e-03 4.05e-04  
## 1934 7.37e-03 -6.59e-03 -9.26e-04 1.60e-03 3.30e-03 -8.79e-03 -1.52e-03  
## 1935 1.16e-02 6.86e-03 1.70e-03 9.75e-03 -1.48e-02 -1.01e-02 -2.20e-03  
## 1936 -5.00e-04 -2.88e-03 8.00e-04 -3.52e-03 -1.20e-03 -3.42e-03 4.43e-03  
## 1937 -9.69e-03 1.20e-02 -4.58e-03 3.77e-03 4.69e-03 -3.93e-03 -6.81e-03  
## 1938 6.71e-04 -1.19e-03 8.62e-05 -1.08e-03 -8.49e-04 -8.65e-04 -3.56e-04  
## 1939 -1.43e-03 1.42e-02 -7.51e-03 4.76e-03 4.49e-03 -1.85e-02 -3.00e-02  
## 1940 4.26e-02 -1.77e-02 4.70e-04 -2.98e-02 4.57e-02 2.11e-02 -3.49e-02  
## 1941 -2.13e-05 4.13e-03 -1.81e-04 1.23e-04 3.58e-03 -9.86e-03 -2.29e-03  
## 1942 -2.93e-03 9.50e-03 -8.07e-03 -9.62e-04 -1.58e-02 2.81e-03 -1.06e-03  
## 1943 -1.40e-03 -2.67e-03 -1.99e-03 3.56e-03 1.93e-04 -7.37e-05 5.46e-04  
## 1944 1.53e-02 1.25e-02 8.44e-03 -4.44e-03 -2.79e-03 -3.74e-03 -1.41e-02  
## 1945 -7.20e-04 6.84e-04 -1.42e-04 6.70e-05 -8.07e-04 -8.62e-04 3.28e-04  
## 1946 1.05e-02 -2.24e-02 3.01e-02 2.53e-02 -2.46e-02 -4.01e-03 -1.51e-03  
## 1947 -2.13e-03 8.63e-03 -5.55e-03 -1.75e-02 1.27e-02 -3.81e-03 -3.48e-03  
## 1948 2.30e-02 -1.51e-02 -8.55e-03 -9.36e-03 -2.30e-02 3.11e-03 -8.31e-03  
## 1949 8.36e-03 -1.42e-02 3.55e-03 -2.01e-02 3.20e-02 -2.20e-04 -1.52e-02  
## 1950 1.26e-02 -1.10e-02 9.05e-03 -3.81e-03 -2.30e-03 3.01e-03 5.02e-03  
## 1951 2.62e-03 -1.40e-02 -1.08e-02 -2.04e-03 -2.08e-02 1.52e-03 -2.20e-03  
## 1952 -1.34e-03 -1.79e-03 -1.31e-03 2.76e-03 4.84e-04 -2.21e-03 6.50e-04  
## 1953 -1.17e-04 -4.81e-03 -3.34e-03 -6.83e-03 6.32e-03 5.45e-03 -7.94e-03  
## 1954 3.37e-03 1.57e-02 -1.42e-02 1.13e-02 1.94e-03 1.66e-03 -7.97e-03  
## 1955 8.76e-04 -9.01e-03 -7.42e-04 -8.99e-03 -9.53e-03 -1.06e-02 1.31e-02  
## 1956 6.66e-03 -9.31e-03 -3.99e-03 -4.35e-03 -1.24e-02 4.91e-03 -2.96e-03  
## 1957 2.26e-03 -4.24e-03 -2.15e-03 4.32e-03 1.86e-03 5.58e-04 -7.67e-03  
## 1958 2.79e-03 1.52e-02 -8.70e-03 1.10e-02 4.68e-03 1.57e-03 1.50e-02  
## 1959 -2.86e-02 1.57e-02 -1.03e-02 6.80e-03 4.09e-03 -4.58e-03 2.13e-02  
## 1960 -1.33e-04 1.44e-04 -6.41e-05 1.71e-04 6.57e-05 3.35e-04 9.91e-06  
## 1961 -6.47e-03 -2.50e-02 9.65e-03 -1.53e-02 -8.72e-03 -1.36e-03 8.70e-03  
## 1962 -4.18e-03 1.02e-02 2.47e-02 9.75e-03 -2.13e-03 9.81e-05 -2.13e-02  
## 1963 -5.19e-02 -3.46e-02 1.39e-02 -4.48e-02 -9.51e-03 -3.38e-02 6.13e-02  
## 1964 -5.80e-03 -1.03e-02 -7.85e-03 1.11e-02 1.59e-03 4.86e-03 1.33e-02  
## 1965 -3.47e-03 -2.85e-03 -1.02e-03 3.28e-03 1.29e-03 2.52e-03 5.01e-03  
## 1966 6.19e-03 1.16e-02 1.15e-02 2.34e-02 -1.53e-02 -3.72e-04 -1.33e-02  
## 1967 4.96e-03 -4.00e-03 -7.48e-04 2.26e-03 2.24e-03 -3.94e-03 -4.42e-04  
## 1968 -1.31e-02 -1.72e-02 -1.04e-02 -9.71e-03 -2.31e-02 6.55e-03 -3.45e-03  
## 1969 -1.36e-03 -3.39e-03 -2.91e-04 -2.05e-04 3.85e-03 -1.64e-03 -6.70e-04  
## 1970 1.29e-02 -1.28e-02 1.40e-02 2.45e-02 -1.57e-02 3.89e-03 4.41e-03  
## 1971 -1.13e-03 1.53e-03 6.54e-05 8.35e-04 1.22e-03 -1.70e-03 3.05e-04  
## 1972 9.26e-05 -6.34e-03 -1.23e-02 -4.29e-03 2.03e-03 -2.08e-03 6.09e-03  
## 1973 -1.01e-02 1.76e-02 3.45e-02 1.93e-02 -6.55e-03 7.25e-03 -9.07e-03  
## 1974 1.11e-03 1.40e-03 8.89e-05 -1.38e-03 -7.24e-04 -1.13e-03 -8.98e-05  
## 1975 -1.25e-04 1.49e-04 -9.88e-06 5.59e-05 1.33e-04 -2.44e-05 -4.76e-05  
## 1976 1.36e-02 2.11e-02 -1.89e-02 1.10e-02 2.91e-03 1.06e-02 -1.66e-02  
## 1977 -2.50e-02 2.32e-02 2.45e-02 2.67e-02 -2.26e-02 -8.39e-03 9.10e-03  
## 1978 4.27e-03 3.88e-03 1.21e-03 6.41e-03 -8.57e-03 -8.67e-04 -8.00e-04  
## 1979 4.85e-03 7.69e-03 -3.01e-03 -1.27e-02 1.17e-02 6.33e-04 -1.40e-02  
## 1980 -1.28e-02 1.22e-02 9.63e-03 8.85e-03 1.83e-02 2.08e-03 6.71e-03  
## 1981 1.71e-02 2.36e-02 6.32e-03 1.98e-02 2.45e-02 1.71e-02 -3.44e-02  
## 1982 -1.68e-03 -2.12e-03 -8.91e-04 1.57e-04 -2.75e-03 -2.19e-03 8.37e-04  
## 1983 -2.09e-02 1.77e-02 1.02e-02 9.55e-03 2.37e-02 -3.39e-03 -1.81e-02  
## 1984 -1.14e-02 -2.36e-02 -4.20e-02 1.90e-02 -1.62e-02 1.43e-02 7.91e-03  
## 1985 -2.32e-03 -4.39e-03 2.84e-04 -2.30e-03 -4.06e-03 -3.50e-03 9.05e-03  
## 1986 7.45e-03 1.05e-02 -2.11e-02 -9.32e-03 3.89e-03 -2.21e-03 6.20e-03  
## 1987 4.84e-03 4.94e-03 -1.44e-03 -1.16e-03 -5.93e-03 -3.72e-04 -1.00e-02  
## 1988 -1.70e-03 -1.67e-02 -1.30e-02 9.46e-03 4.47e-03 1.17e-02 1.63e-02  
## 1989 -4.00e-04 2.06e-02 3.20e-03 1.98e-02 2.27e-02 2.43e-02 6.58e-03  
## 1990 9.89e-05 2.72e-03 -2.64e-04 1.48e-03 1.80e-03 -7.66e-04 -1.52e-05  
## 1991 1.55e-02 1.13e-02 -2.45e-02 -6.71e-03 3.52e-03 3.84e-03 -1.17e-02  
## 1992 3.32e-03 -4.93e-03 -1.16e-03 4.07e-04 5.39e-03 -4.96e-03 -1.21e-03  
## 1993 -1.91e-03 -4.70e-03 -1.87e-03 6.07e-04 -6.10e-03 -4.88e-03 1.36e-03  
## 1994 3.64e-03 1.65e-02 1.23e-02 3.32e-02 -2.22e-02 2.01e-02 -2.04e-02  
## 1995 2.20e-02 -1.44e-02 1.34e-02 -9.64e-03 -2.00e-03 -4.45e-03 3.95e-03  
## 1996 -2.19e-02 -1.80e-02 3.92e-02 1.35e-02 -5.78e-03 1.16e-03 1.90e-02  
## 1997 6.75e-03 -6.05e-03 -8.99e-04 1.76e-03 2.98e-03 -6.21e-03 -1.46e-03  
## 1998 -1.60e-03 8.20e-04 -1.21e-04 8.40e-04 5.15e-04 5.77e-04 1.77e-03  
## 1999 4.66e-02 2.57e-02 1.59e-02 -2.93e-02 -5.44e-03 1.15e-02 -4.10e-02  
## 2000 6.46e-03 -1.31e-02 1.23e-02 -9.97e-03 -1.96e-03 -1.04e-02 7.82e-03  
## 2001 2.13e-02 2.31e-02 1.25e-02 4.11e-03 2.79e-02 3.01e-03 -1.13e-03  
## 2002 1.48e-02 -1.89e-02 8.25e-03 -7.25e-03 -7.46e-03 1.73e-02 4.14e-02  
## 2003 9.89e-03 -1.14e-02 8.58e-03 -3.80e-03 -2.23e-03 -2.00e-03 -1.10e-02  
## 2004 -3.27e-03 1.36e-02 2.59e-03 -2.02e-02 3.19e-02 -9.23e-03 6.83e-03  
## 2005 -6.28e-03 -4.98e-03 -2.09e-05 -4.63e-04 5.00e-03 2.33e-03 7.15e-03  
## 2006 1.05e-02 -1.24e-02 1.03e-02 -5.33e-03 -2.12e-03 6.23e-03 4.83e-03  
## 2007 4.39e-03 2.13e-03 -3.18e-04 -4.02e-04 -2.85e-03 2.43e-03 -4.29e-03  
## 2008 -2.92e-02 2.07e-02 2.42e-02 2.83e-02 -2.59e-02 -1.26e-02 9.71e-03  
## 2009 7.44e-04 -1.10e-03 3.57e-04 1.94e-03 -2.11e-03 2.29e-04 1.20e-04  
## 2010 8.49e-03 6.08e-03 8.08e-05 -5.07e-03 -6.68e-03 -8.79e-04 -2.64e-03  
## 2011 -6.14e-03 -1.00e-02 -2.52e-03 -5.56e-03 -1.10e-02 3.52e-03 -1.52e-02  
## 2012 1.27e-02 1.20e-02 9.95e-03 -6.26e-03 -1.79e-03 -4.70e-03 4.62e-03  
## 2013 3.93e-05 -4.27e-04 1.24e-04 6.62e-04 -7.33e-04 1.71e-04 -1.43e-04  
## 2014 1.09e-02 1.98e-02 7.30e-03 -4.66e-03 -6.42e-03 1.54e-02 8.06e-03  
## 2015 2.27e-02 -2.43e-02 2.90e-02 2.65e-02 -3.10e-02 1.38e-02 -6.01e-04  
## 2016 2.46e-03 4.16e-03 -2.73e-03 -5.70e-03 6.18e-03 3.19e-03 -9.53e-04  
## 2017 4.91e-04 -1.14e-03 6.96e-05 5.18e-05 1.27e-03 8.10e-04 -2.05e-03  
## 2018 -3.79e-03 -1.72e-02 -1.49e-02 9.67e-03 2.92e-03 1.18e-02 1.89e-02  
## 2019 1.77e-03 9.62e-03 -1.83e-02 1.74e-02 -7.54e-03 3.46e-03 5.95e-03  
## 2020 -2.01e-02 1.71e-02 -1.00e-02 9.96e-03 6.09e-03 3.09e-03 1.89e-02  
## 2021 -5.19e-04 6.52e-04 2.31e-04 -1.60e-04 8.61e-04 1.36e-03 -2.38e-04  
## 2022 -5.31e-03 4.57e-03 1.03e-02 8.01e-03 -1.94e-03 -2.54e-03 5.71e-04  
## 2023 1.50e-03 -3.03e-03 -1.04e-03 -5.50e-03 4.96e-03 -1.01e-03 2.30e-04  
## 2024 -9.15e-04 -2.17e-03 1.51e-04 9.92e-04 1.61e-03 -3.54e-03 3.95e-04  
## 2025 2.45e-02 -2.88e-02 2.85e-02 3.15e-02 -3.52e-02 -2.92e-04 -5.09e-02  
## 2026 1.09e-02 1.01e-02 9.78e-04 1.44e-02 -1.99e-02 -8.29e-03 -1.96e-02  
## 2027 -1.73e-02 -1.29e-02 -2.85e-03 -1.15e-02 -1.34e-02 -1.77e-02 1.97e-02  
## 2028 6.50e-03 1.40e-02 1.30e-02 2.58e-02 -1.79e-02 -5.51e-03 -1.44e-02  
## 2029 -3.62e-02 -2.38e-02 5.65e-03 -5.61e-03 -1.19e-02 3.55e-02 9.27e-03  
## 2030 1.61e-03 1.62e-03 -1.87e-04 -5.83e-04 -1.66e-03 -1.05e-05 -2.55e-04  
## 2031 6.46e-03 -4.80e-03 -1.56e-04 9.51e-03 -1.08e-02 6.92e-03 -2.04e-03  
## 2032 -3.19e-02 2.08e-02 4.00e-02 -3.67e-02 1.63e-02 -1.32e-02 -9.87e-03  
## 2033 -3.38e-02 -2.17e-02 4.63e-02 1.22e-02 -6.52e-03 -2.79e-03 2.27e-02  
## 2034 1.18e-03 1.52e-02 8.88e-03 8.34e-03 2.03e-02 -8.26e-03 -1.76e-02  
## 2035 1.12e-02 -1.57e-02 1.42e-02 -9.87e-03 -2.90e-03 -5.44e-03 6.51e-03  
## 2036 -4.77e-03 -4.91e-03 2.11e-03 4.64e-03 -7.20e-03 3.00e-03 6.89e-03  
## 2037 -1.58e-03 2.61e-03 2.76e-04 9.30e-04 2.14e-03 -6.34e-03 3.39e-04  
## 2038 9.01e-03 -7.16e-03 1.82e-02 7.32e-03 -1.85e-03 1.81e-03 -1.57e-02  
## 2039 -3.93e-02 1.55e-02 3.69e-02 1.30e-02 -4.77e-03 4.54e-03 2.08e-02  
## 2040 7.01e-04 3.97e-03 -1.15e-04 1.35e-03 2.73e-03 -6.58e-03 -3.23e-04  
## 2041 -7.99e-04 -3.28e-03 -2.19e-03 4.76e-03 5.64e-04 -4.13e-03 5.48e-04  
## 2042 -2.02e-02 -1.34e-02 2.10e-04 1.61e-02 -2.61e-02 -1.89e-02 1.93e-02  
## 2043 2.79e-02 1.55e-02 -5.82e-03 6.13e-03 5.67e-03 6.17e-03 -1.35e-02  
## 2044 -1.44e-03 -1.23e-02 -2.48e-02 -1.23e-02 5.31e-03 -4.96e-03 -1.01e-02  
## 2045 -5.39e-04 -6.95e-03 -8.91e-03 -6.93e-03 6.64e-03 3.55e-03 2.38e-04  
## 2046 4.55e-04 1.94e-03 1.23e-03 2.31e-03 -3.09e-03 -2.34e-03 -4.45e-03  
## 2047 1.41e-03 3.43e-03 -2.52e-04 3.83e-04 2.71e-03 -9.37e-03 -1.60e-03  
## 2048 8.92e-03 -1.24e-02 -9.87e-03 1.29e-02 -2.56e-04 1.01e-02 -5.78e-03  
## 2049 -3.59e-03 -2.17e-02 2.67e-02 2.91e-02 -2.39e-02 -1.26e-03 6.43e-03  
## 2050 5.64e-04 1.78e-02 8.94e-03 -5.90e-03 -5.15e-03 1.84e-02 3.62e-02  
## 2051 1.51e-02 1.03e-02 -7.12e-03 1.05e-02 7.66e-04 5.28e-03 -5.66e-03  
## 2052 -1.37e-02 8.84e-03 -8.58e-03 9.80e-03 9.24e-04 5.86e-03 5.38e-04  
## 2053 -5.38e-02 1.93e-02 1.25e-02 3.70e-02 -2.89e-02 -9.96e-03 4.81e-02  
## 2054 -5.24e-03 -5.60e-03 9.30e-04 -7.90e-03 -2.61e-03 9.04e-04 9.14e-03  
## 2055 9.80e-03 1.29e-02 -9.42e-03 -4.86e-03 -1.82e-02 6.59e-03 -7.20e-03  
## 2056 -4.11e-03 -4.77e-03 -2.29e-04 -5.26e-04 5.03e-03 6.37e-04 7.03e-03  
## 2057 1.76e-03 -2.06e-02 1.84e-03 2.06e-02 2.55e-02 1.46e-02 1.03e-02  
## 2058 9.20e-05 -3.08e-04 -1.16e-04 3.82e-04 1.66e-04 6.13e-04 -3.88e-04  
## 2059 1.83e-03 1.59e-03 7.38e-06 -3.99e-04 -1.75e-03 3.40e-04 -8.46e-05  
## 2060 9.02e-04 -7.60e-04 7.39e-05 -4.42e-04 -7.06e-04 -3.06e-04 9.53e-05  
## 2061 -2.16e-02 -1.58e-02 -1.24e-02 1.27e-02 2.19e-03 9.96e-03 -2.46e-03  
## 2062 5.39e-05 2.67e-04 -3.34e-05 -3.87e-05 -2.53e-04 5.75e-04 -3.40e-04  
## 2063 -1.74e-04 8.57e-03 1.48e-02 -6.16e-03 5.08e-03 -9.31e-03 -2.20e-03  
## 2064 -2.78e-04 7.45e-03 -4.55e-03 7.19e-03 1.94e-03 8.44e-03 -1.31e-03  
## 2065 -7.98e-03 9.68e-03 7.13e-03 -4.21e-03 -3.13e-03 -8.96e-03 -8.31e-03  
## 2066 -2.68e-02 2.65e-02 1.67e-02 -2.73e-02 -7.03e-03 -3.33e-02 5.00e-02  
## 2067 -1.85e-03 -1.24e-03 -3.12e-04 3.46e-05 -1.35e-03 -1.03e-03 6.11e-04  
## 2068 -1.39e-04 -2.23e-04 -6.92e-05 -4.44e-04 4.56e-04 -1.53e-04 -2.47e-05  
## 2069 4.17e-03 4.70e-03 -9.48e-04 1.97e-03 2.54e-03 -1.29e-03 -1.15e-03  
## 2070 -2.36e-02 1.93e-02 -4.66e-02 -2.58e-02 8.02e-03 -1.55e-02 -2.41e-02  
## 2071 -7.94e-03 1.29e-02 2.61e-02 2.16e-02 -8.64e-03 8.00e-03 -5.50e-03  
## 2072 -2.96e-03 -7.67e-03 -6.69e-04 3.54e-03 3.48e-03 -3.76e-03 -2.21e-03  
## 2073 2.60e-02 1.44e-02 8.71e-03 -4.34e-03 -3.82e-03 1.54e-03 -1.85e-02  
## 2074 1.07e-03 6.74e-03 -9.80e-05 -5.41e-03 -6.11e-03 -3.90e-03 -1.33e-03  
## 2075 3.26e-03 5.56e-03 -4.47e-03 6.63e-04 -8.58e-03 -1.99e-04 6.18e-05  
## 2076 5.27e-04 7.71e-04 1.66e-03 -4.91e-04 7.00e-04 -3.55e-04 -1.30e-03  
## 2077 -4.37e-03 -1.48e-02 -7.82e-03 -8.70e-03 -1.96e-02 3.09e-03 1.84e-02  
## 2078 6.93e-03 5.02e-03 7.33e-04 8.96e-03 -1.12e-02 1.51e-03 -9.56e-03  
## 2079 -4.18e-02 2.42e-02 5.53e-03 -5.94e-03 -1.12e-02 3.52e-02 8.92e-03  
## 2080 2.34e-02 -1.54e-02 2.18e-03 -2.31e-02 3.59e-02 8.09e-03 -2.02e-02  
## 2081 6.51e-04 1.24e-02 -2.09e-02 1.56e-02 -7.12e-03 -3.57e-03 7.50e-03  
## 2082 2.12e-02 -1.52e-02 7.01e-03 1.20e-02 1.98e-02 -4.91e-03 -2.20e-02  
## 2083 -8.48e-03 2.01e-02 1.02e-02 -6.54e-03 -8.57e-03 2.65e-02 -2.68e-02  
## 2084 -8.29e-03 -7.46e-03 -2.98e-03 5.88e-03 2.37e-03 1.98e-03 -1.11e-02  
## 2085 -1.70e-03 -1.13e-03 -2.76e-04 1.04e-03 5.67e-04 7.10e-04 2.16e-03  
## 2086 -2.15e-03 -6.83e-03 -2.16e-03 -2.84e-03 -8.27e-03 1.07e-02 1.13e-02  
## 2087 4.47e-04 2.01e-03 -7.43e-04 -4.03e-03 3.65e-03 -2.25e-03 -7.89e-04  
## 2088 -2.03e-03 -5.73e-03 2.51e-03 5.78e-03 -8.49e-03 5.11e-04 7.73e-03  
## 2089 1.03e-02 5.77e-03 1.01e-03 9.23e-03 -1.23e-02 -6.13e-03 -1.08e-02  
## 2090 4.88e-03 -4.79e-03 -9.34e-04 2.15e-03 2.22e-03 2.70e-04 -9.53e-04  
## 2091 9.70e-03 -1.11e-02 7.79e-03 -3.61e-03 -3.24e-03 -1.78e-03 -1.07e-02  
## 2092 -3.68e-02 2.63e-02 3.47e-03 -6.97e-03 -1.34e-02 4.20e-02 7.93e-03  
## 2093 6.33e-03 2.08e-02 -1.61e-02 1.05e-02 3.89e-03 1.81e-02 1.39e-02  
## 2094 -9.94e-03 2.07e-02 -1.37e-02 7.81e-03 5.76e-03 1.30e-02 -1.11e-02  
## 2095 -4.39e-03 -1.16e-02 -1.17e-02 -1.80e-02 1.31e-02 5.44e-03 -1.38e-03  
## 2096 -7.54e-03 5.64e-03 -6.76e-03 -5.77e-03 6.81e-03 -3.98e-03 9.30e-04  
## 2097 -1.51e-02 2.07e-02 1.81e-02 3.28e-02 -2.79e-02 3.78e-03 5.43e-03  
## 2098 -7.18e-03 1.61e-02 -7.02e-03 2.97e-02 -4.09e-02 3.66e-03 -6.83e-03  
## 2099 -2.89e-02 1.86e-02 3.61e-02 -3.19e-02 1.38e-02 -7.04e-03 2.23e-02  
## 2100 -5.39e-04 9.78e-03 1.20e-02 1.98e-02 -1.22e-02 1.85e-03 5.52e-03  
## 2101 1.91e-02 1.29e-02 9.45e-03 -5.02e-03 -2.94e-03 2.19e-03 4.23e-03  
## 2102 -4.99e-04 7.66e-04 -7.28e-05 -1.73e-04 -8.86e-04 8.07e-04 9.59e-05  
## 2103 9.56e-03 1.53e-02 -1.85e-02 -2.31e-02 1.68e-02 6.07e-03 -9.13e-03  
## 2104 -5.50e-03 -5.26e-03 -2.32e-03 4.39e-03 1.16e-03 6.06e-03 -7.87e-05  
## 2105 -1.12e-04 1.47e-03 -2.34e-04 1.17e-03 9.50e-04 -1.27e-03 -1.82e-03  
## 2106 7.84e-03 -5.88e-03 -8.78e-04 1.71e-03 2.93e-03 -8.22e-03 -1.49e-03  
## 2107 -1.16e-04 2.40e-04 5.71e-05 -1.61e-04 -1.91e-04 -1.59e-04 1.00e-04  
## 2108 -1.12e-03 -3.32e-03 -4.07e-04 2.47e-03 1.62e-03 8.76e-04 -5.33e-03  
## 2109 -1.09e-03 1.01e-02 -6.97e-03 -2.15e-03 -1.40e-02 -5.58e-03 -1.42e-03  
## 2110 2.04e-03 2.99e-03 -8.72e-04 2.18e-03 1.14e-03 4.30e-03 -7.23e-04  
## 2111 -1.21e-04 -1.01e-03 -5.95e-04 1.50e-03 2.26e-04 -1.49e-03 3.56e-04  
## 2112 2.77e-03 -1.81e-02 8.15e-03 -6.83e-03 -6.65e-03 1.50e-02 4.16e-02  
## 2113 -2.06e-03 3.38e-03 1.22e-04 -2.81e-04 3.49e-03 -2.68e-03 -6.66e-03  
## 2114 -8.73e-03 -1.69e-02 -9.61e-03 -1.07e-02 -2.28e-02 5.59e-03 2.10e-02  
## 2115 1.53e-03 1.15e-03 -8.74e-05 -4.48e-04 -1.13e-03 1.20e-03 1.17e-04  
## 2116 7.80e-04 1.96e-03 -2.29e-04 5.47e-04 1.52e-03 -2.91e-03 -9.49e-04  
## 2117 5.77e-03 5.97e-03 -8.84e-04 1.44e-03 3.34e-03 -8.60e-03 -1.67e-03  
## 2118 8.89e-03 -1.37e-02 -4.18e-03 6.78e-03 5.76e-03 -1.31e-03 -2.94e-02  
## 2119 -1.38e-02 1.48e-02 -1.42e-02 1.13e-02 2.20e-03 8.81e-03 -4.18e-03  
## 2120 2.12e-02 -1.74e-02 1.52e-02 3.87e-02 -2.50e-02 3.32e-02 -2.81e-02  
## 2121 -3.33e-04 -1.41e-03 -2.67e-04 8.96e-05 -1.49e-03 -3.26e-04 -1.74e-03  
## 2122 -1.49e-02 1.02e-02 -3.28e-03 2.64e-03 4.74e-03 -8.84e-03 -4.26e-03  
## 2123 7.38e-03 -2.65e-02 2.06e-02 4.09e-02 -3.89e-02 -8.10e-03 -4.56e-02  
## 2124 1.48e-02 6.00e-03 -2.07e-03 -1.85e-03 -7.02e-03 3.89e-03 -1.27e-02  
## 2125 1.25e-02 -1.10e-02 9.06e-03 -3.82e-03 -2.31e-03 3.06e-03 5.10e-03  
## 2126 1.66e-02 -2.39e-02 1.80e-02 -2.60e-02 -7.16e-03 3.09e-04 1.08e-03  
## 2127 -4.80e-04 8.24e-04 1.31e-04 -3.32e-04 -7.31e-04 -1.62e-04 1.57e-03  
## 2128 9.64e-04 1.95e-03 2.86e-04 -1.54e-03 -1.78e-03 -8.50e-04 1.62e-04  
## 2129 1.57e-02 1.11e-02 -2.42e-02 -6.63e-03 3.51e-03 3.60e-03 -1.19e-02  
## 2130 7.41e-03 -6.41e-03 -8.52e-04 1.55e-03 3.23e-03 -8.69e-03 -1.68e-03  
## 2131 8.18e-03 -9.60e-03 -9.80e-03 1.23e-02 4.37e-04 3.61e-03 -2.26e-03  
## 2132 6.32e-04 1.86e-02 -7.85e-03 3.17e-02 -4.32e-02 7.49e-03 -9.91e-03  
## 2133 5.24e-03 4.69e-03 3.39e-04 -3.34e-03 -3.67e-03 -1.29e-02 -6.45e-03  
## 2134 -8.48e-04 3.62e-03 -8.11e-04 6.14e-04 3.64e-03 6.32e-04 -7.84e-04  
## 2135 1.01e-02 -1.62e-02 -7.83e-03 6.67e-03 4.76e-03 7.37e-04 -1.07e-02  
## 2136 1.43e-02 1.81e-02 1.16e-02 7.45e-03 2.51e-02 -5.87e-03 1.28e-03  
## 2137 5.50e-03 3.67e-03 1.07e-04 -3.20e-03 -3.81e-03 -2.02e-03 -5.10e-04  
## 2138 5.13e-04 -6.48e-03 1.74e-03 1.08e-02 -1.29e-02 1.42e-03 -1.97e-03  
## 2139 -8.76e-03 1.00e-02 2.43e-02 -1.32e-02 1.06e-02 -1.04e-02 -1.96e-02  
## 2140 -2.34e-03 1.06e-02 -2.46e-03 2.32e-03 4.30e-03 -3.77e-03 -5.12e-03  
## 2141 -2.10e-02 1.41e-02 -9.37e-03 7.05e-03 3.73e-03 4.60e-03 1.63e-02  
## 2142 4.96e-03 -3.80e-03 -2.64e-03 5.31e-03 5.71e-04 -2.02e-03 -6.27e-04  
## 2143 4.31e-03 4.02e-03 -8.53e-04 1.95e-03 2.08e-03 -4.60e-04 -1.05e-03  
## 2144 5.26e-03 4.43e-03 1.55e-03 6.78e-03 -9.64e-03 -4.52e-03 -1.16e-03  
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## 2146 -1.52e-02 1.86e-02 -1.75e-02 1.22e-02 1.73e-03 8.14e-03 -9.05e-03  
## 2147 -3.15e-05 -1.07e-04 4.02e-05 -1.31e-04 -5.80e-05 -2.27e-04 1.37e-04  
## 2148 -8.27e-04 -1.51e-02 -7.65e-03 4.83e-03 4.38e-03 -1.60e-02 -3.05e-02  
## 2149 -9.52e-03 -1.53e-02 -1.52e-02 -2.56e-02 1.74e-02 6.89e-03 1.83e-02  
## 2150 -2.23e-04 -6.78e-04 3.28e-04 1.09e-03 -1.16e-03 -5.23e-04 1.76e-04  
## 2151 7.65e-03 1.48e-02 1.78e-02 2.37e-02 -1.60e-02 -2.79e-03 4.21e-03  
## 2152 1.53e-02 1.26e-02 8.47e-03 -4.47e-03 -2.81e-03 -3.33e-03 -1.41e-02  
## 2153 2.27e-03 1.11e-02 -1.29e-02 -1.29e-02 1.27e-02 -1.01e-02 -1.71e-03  
## 2154 4.57e-04 -3.76e-04 1.01e-05 -2.72e-05 -4.00e-04 -1.12e-04 -5.95e-04  
## 2155 1.38e-03 -3.16e-03 -2.42e-04 1.96e-03 2.30e-03 -7.76e-03 -4.71e-03  
## 2156 -1.00e-02 5.58e-03 -4.38e-04 -6.40e-04 6.02e-03 1.16e-03 -1.23e-04  
## 2157 8.04e-03 1.30e-02 9.27e-03 -4.74e-03 -2.51e-03 -1.01e-03 -1.34e-02  
## 2158 2.24e-03 1.50e-02 -1.64e-02 -2.35e-02 1.86e-02 4.13e-03 -6.23e-03  
## 2159 -4.56e-03 -1.23e-02 -2.12e-02 1.58e-02 -7.21e-03 -1.80e-03 9.72e-03  
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## 2161 1.22e-03 -3.94e-03 -2.19e-04 1.62e-03 2.40e-03 -4.12e-03 -1.78e-05  
## 2162 1.29e-03 -4.67e-03 9.87e-03 -4.45e-03 3.54e-03 -1.18e-04 -3.73e-04  
## 2163 4.66e-04 -8.41e-03 -1.41e-02 1.25e-02 -5.45e-03 -1.31e-03 6.13e-03  
## 2164 1.30e-02 -1.02e-02 -1.87e-02 1.76e-02 -7.42e-03 3.69e-03 5.30e-03  
## 2165 3.12e-04 2.37e-03 6.05e-04 2.75e-03 -3.55e-03 -9.64e-04 -3.89e-04  
## 2166 3.25e-03 -4.77e-03 -3.13e-04 2.78e-03 2.35e-03 -2.33e-05 -1.53e-03  
## 2167 3.66e-03 -1.36e-02 -4.88e-03 4.70e-03 3.96e-03 -2.74e-03 -8.37e-03  
## 2168 -7.57e-03 -1.13e-02 -3.16e-03 3.11e-03 4.11e-03 -1.27e-02 -4.14e-03  
## 2169 -1.59e-02 1.85e-02 -1.30e-02 7.74e-03 3.99e-03 1.17e-02 1.83e-02  
## 2170 1.77e-03 -2.83e-03 -2.68e-04 1.54e-03 1.69e-03 -2.60e-03 7.04e-05  
## 2171 2.12e-02 2.09e-02 1.03e-02 -1.37e-02 -4.58e-03 -2.07e-02 -2.72e-02  
## 2172 -5.04e-04 -1.96e-03 4.19e-05 2.42e-04 1.78e-03 -4.65e-03 -7.46e-04  
## 2173 -3.93e-03 3.50e-03 6.48e-03 -2.15e-03 2.49e-03 -5.91e-03 1.24e-03  
## 2174 6.57e-04 -1.69e-03 5.94e-04 2.41e-03 -2.95e-03 -1.71e-03 -6.75e-04  
## 2175 2.50e-03 -4.15e-03 -9.20e-05 1.40e-03 2.64e-03 -8.19e-03 -2.90e-04  
## 2176 -3.41e-03 2.39e-03 5.12e-03 -1.90e-03 1.81e-03 -1.82e-03 4.46e-03  
## 2177 9.07e-03 -4.06e-03 -8.27e-04 -7.76e-04 -4.92e-03 6.90e-04 -7.99e-03  
## 2178 -4.47e-03 5.90e-03 -2.16e-03 -4.60e-04 -7.90e-03 -6.56e-03 4.61e-04  
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## 2180 -2.29e-03 7.88e-03 -1.64e-02 -6.07e-03 3.48e-03 -1.85e-03 7.84e-03  
## 2181 -2.51e-03 -2.37e-02 4.30e-03 1.59e-02 2.76e-02 -1.93e-03 4.38e-02  
## 2182 2.43e-04 -1.61e-03 -2.60e-04 6.47e-04 1.31e-03 -9.19e-04 -6.63e-04  
## 2183 7.49e-06 2.33e-04 -1.85e-04 -2.20e-04 3.03e-04 -4.40e-04 6.43e-05  
## 2184 -8.30e-03 -1.01e-02 -4.86e-03 5.45e-03 2.29e-03 5.89e-03 1.60e-02  
## 2185 -3.88e-04 -2.72e-03 1.61e-04 3.25e-05 2.48e-03 -5.18e-03 3.03e-03  
## 2186 -3.64e-04 -2.28e-03 1.25e-03 2.42e-03 -3.47e-03 5.40e-04 3.55e-03  
## 2187 1.86e-03 6.99e-03 -1.53e-02 -4.80e-03 2.39e-03 -3.54e-03 -5.41e-03  
## 2188 -3.35e-05 -2.64e-05 -6.23e-05 2.35e-05 -2.54e-05 1.59e-05 5.53e-06  
## 2189 3.18e-04 8.25e-04 1.20e-04 1.87e-03 -1.84e-03 2.32e-03 1.54e-04  
## 2190 9.53e-03 -1.12e-02 7.82e-03 -3.64e-03 -3.29e-03 -1.65e-03 -1.06e-02  
## 2191 3.38e-03 -4.44e-03 -2.17e-03 -7.66e-03 7.12e-03 -8.03e-04 -6.61e-03  
## 2192 5.86e-03 -4.21e-03 9.18e-05 -3.20e-03 -4.05e-03 -1.62e-04 -4.17e-04  
## 2193 -5.21e-04 2.27e-03 -1.90e-03 -3.10e-03 2.99e-03 4.76e-03 -4.07e-03  
## 2194 3.82e-03 -9.41e-03 -3.99e-04 -6.71e-03 -1.00e-02 -4.83e-03 -1.59e-02  
## 2195 5.61e-05 -1.69e-04 -2.94e-06 5.20e-05 1.50e-04 -1.83e-04 2.01e-04  
## 2196 -4.31e-03 -8.31e-03 -1.94e-03 4.52e-03 4.54e-03 -2.20e-03 -2.99e-03  
## 2197 4.77e-03 -2.15e-03 -2.49e-04 2.07e-03 1.12e-03 9.56e-04 -1.08e-03  
## 2198 1.95e-02 -1.16e-02 -2.31e-02 2.11e-02 -9.06e-03 2.54e-03 -1.35e-02  
## 2199 5.78e-05 7.63e-05 -3.59e-05 1.06e-05 -1.06e-04 -3.87e-05 1.09e-05  
## 2200 -1.32e-02 -2.65e-02 1.74e-02 -3.83e-03 3.73e-02 2.02e-02 -1.22e-03  
## 2201 -6.41e-03 1.49e-02 3.21e-02 1.75e-02 -4.25e-03 2.39e-03 1.48e-02  
## 2202 -5.57e-03 -2.04e-02 -3.20e-02 1.80e-02 -9.24e-03 4.12e-04 7.08e-03  
## 2203 -1.56e-03 1.18e-02 1.17e-02 2.31e-02 -1.52e-02 -3.48e-03 -1.15e-02  
## 2204 -5.77e-03 5.17e-03 -9.72e-03 9.07e-03 -3.68e-03 -2.22e-03 5.65e-03  
## 2205 1.44e-02 6.62e-03 -3.25e-03 -1.27e-02 9.51e-03 -1.08e-02 -2.15e-03  
## 2206 -5.43e-03 -3.39e-03 -1.65e-03 4.37e-03 6.52e-04 -1.76e-03 9.09e-04  
## 2207 1.62e-03 -1.05e-02 -1.08e-02 -1.29e-02 1.28e-02 -1.90e-03 -2.07e-03  
## 2208 5.28e-04 3.65e-03 -1.52e-04 1.39e-03 2.49e-03 -5.22e-03 -2.31e-04  
## 2209 2.26e-03 -3.16e-03 5.82e-04 -2.45e-03 -2.56e-03 -8.41e-03 -4.36e-03  
## 2210 2.50e-03 1.32e-02 1.14e-02 -7.08e-03 -2.35e-03 -8.52e-03 -1.44e-02  
## 2211 3.17e-05 1.70e-04 1.05e-04 1.95e-04 -2.51e-04 -2.06e-04 -3.52e-04  
## 2212 9.37e-03 -6.92e-03 1.47e-02 1.15e-02 -4.10e-03 -5.52e-04 -2.67e-03  
## 2213 -5.82e-03 4.28e-03 -2.81e-04 -3.16e-04 4.43e-03 2.01e-03 6.34e-03  
## 2214 -2.69e-03 4.00e-03 -2.89e-04 -3.21e-04 4.27e-03 4.36e-04 -1.05e-03  
## 2215 -2.48e-02 1.83e-02 4.13e-02 1.73e-02 -6.16e-03 1.64e-02 1.87e-02  
## 2216 -2.93e-03 -4.40e-03 1.73e-03 4.50e-03 -6.49e-03 4.37e-04 -5.26e-04  
## 2217 -2.19e-04 8.17e-03 -1.64e-03 2.53e-05 7.54e-03 -7.62e-03 -2.70e-03  
## 2218 8.52e-03 1.47e-02 -1.19e-02 -4.42e-03 -2.30e-02 1.71e-03 -6.22e-03  
## 2219 8.23e-04 1.49e-02 1.50e-02 -1.17e-02 -1.17e-03 -6.74e-03 6.95e-03  
## 2220 1.37e-02 -1.45e-02 -2.65e-02 2.29e-02 -1.08e-02 -1.18e-03 -1.66e-02  
## 2221 -1.13e-02 9.33e-03 -5.61e-03 6.92e-03 4.40e-03 4.93e-04 1.51e-02  
## 2222 -5.51e-03 -3.27e-03 7.17e-04 -2.38e-03 -2.62e-03 -3.65e-03 6.69e-03  
## 2223 3.74e-04 3.97e-04 -4.53e-05 -1.15e-04 -4.12e-04 1.01e-03 5.48e-05  
## 2224 -3.64e-03 -4.86e-03 9.88e-03 -3.47e-03 3.57e-03 -8.53e-03 1.06e-03  
## 2225 -3.09e-02 1.67e-02 -1.48e-02 -3.53e-02 2.30e-02 -5.73e-03 2.27e-02  
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## 2227 2.33e-02 -1.41e-02 1.06e-02 -6.00e-03 -3.19e-03 -1.75e-04 -1.78e-02  
## 2228 4.74e-05 -1.04e-03 -2.19e-04 5.52e-04 8.22e-04 4.78e-04 -3.63e-04  
## 2229 1.75e-03 1.53e-03 -4.88e-04 1.48e-03 5.81e-04 3.01e-03 -5.38e-04  
## 2230 -4.13e-03 3.89e-03 6.45e-04 -2.85e-03 -3.37e-03 -4.26e-03 -5.93e-03  
## 2231 9.21e-03 -5.13e-03 -1.33e-03 -1.44e-03 -5.79e-03 -8.46e-04 -9.23e-03  
## 2232 -3.99e-02 1.96e-02 4.44e-02 1.27e-02 -6.20e-03 -1.87e-04 2.33e-02  
## 2233 9.73e-04 9.31e-03 -3.80e-03 -5.53e-03 -1.10e-02 -6.08e-03 1.44e-02  
## 2234 1.22e-02 -1.99e-02 -1.24e-02 6.80e-03 5.11e-03 2.06e-02 1.69e-02  
## 2235 4.45e-03 2.40e-03 -7.30e-05 3.01e-04 2.22e-03 -3.25e-03 -5.61e-03  
## 2236 -3.83e-03 2.29e-03 -6.56e-03 -1.03e-03 3.79e-03 1.29e-03 3.77e-03  
## 2237 3.74e-04 -4.43e-04 -4.15e-05 -8.25e-05 -4.18e-04 3.82e-04 -5.46e-04  
## 2238 1.30e-03 1.63e-03 -1.35e-04 -6.73e-04 -1.63e-03 1.74e-03 -2.41e-03  
## 2239 -2.05e-03 -1.21e-02 1.80e-02 -9.09e-03 5.30e-03 1.03e-03 -2.01e-03  
## 2240 -2.04e-02 2.64e-02 6.53e-03 -2.03e-02 -1.35e-02 -1.50e-02 5.02e-02  
## 2241 -3.20e-03 -2.74e-03 -2.10e-03 -2.53e-03 3.27e-03 -3.76e-03 1.07e-03  
## 2242 -2.46e-02 9.41e-03 5.49e-03 8.25e-03 1.31e-02 -7.35e-03 1.11e-02  
## 2243 1.54e-04 5.25e-04 2.44e-05 -4.35e-04 -3.61e-04 -8.37e-05 -1.59e-04  
## 2244 7.20e-03 7.59e-03 -2.24e-03 -3.93e-03 -9.00e-03 -3.05e-05 -1.39e-02  
## 2245 6.33e-03 -1.22e-02 -2.43e-03 4.68e-03 4.37e-03 7.87e-03 -7.22e-03  
## 2246 2.10e-03 -3.13e-03 -2.39e-04 1.54e-03 1.91e-03 -4.01e-03 -6.31e-07  
## 2247 1.64e-02 1.41e-02 -7.06e-03 7.22e-03 4.26e-03 5.59e-03 -1.33e-02  
## 2248 -1.91e-03 2.26e-03 1.09e-04 3.11e-04 2.21e-03 -5.62e-03 -6.57e-04  
## 2249 -4.58e-04 -5.57e-03 -1.45e-02 4.29e-03 -6.05e-03 -8.05e-04 -5.66e-04  
## 2250 9.10e-05 -1.67e-04 -3.42e-04 1.12e-04 -1.32e-04 1.84e-04 -3.63e-05  
## 2251 -1.98e-03 -9.80e-03 2.52e-03 1.30e-02 -1.94e-02 -4.14e-03 -2.79e-03  
## 2252 3.08e-03 -2.39e-03 1.24e-03 4.06e-03 -4.88e-03 -6.45e-04 -7.99e-04  
## 2253 7.14e-04 -2.57e-03 -8.94e-04 2.95e-03 5.72e-04 1.58e-03 -4.03e-03  
## 2254 3.09e-04 -2.19e-04 6.20e-05 -2.57e-04 -1.10e-04 -4.12e-04 7.12e-06  
## 2255 -1.33e-03 -3.12e-03 2.70e-04 1.16e-03 2.37e-03 -6.81e-03 6.24e-04  
## 2256 5.50e-03 1.67e-02 7.49e-03 -5.87e-03 -4.42e-03 -6.12e-03 -1.82e-02  
## 2257 -2.87e-03 -8.80e-03 -8.05e-03 -1.19e-02 9.96e-03 8.11e-03 -1.31e-02  
## 2258 7.34e-03 1.10e-02 7.81e-03 -3.91e-03 -2.91e-03 -2.34e-03 -1.11e-02  
## 2259 -4.45e-02 1.42e-02 8.86e-03 -7.89e-03 -4.72e-03 -1.45e-02 -9.93e-03  
## 2260 2.55e-04 8.71e-04 -4.72e-04 1.22e-03 2.22e-04 -1.00e-03 8.73e-05  
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## 2262 3.89e-03 7.36e-03 1.51e-02 -6.88e-03 5.15e-03 -3.57e-03 9.15e-03  
## 2263 1.03e-04 -1.53e-04 -1.27e-04 -1.46e-04 2.09e-04 -2.51e-04 2.35e-05  
## 2264 4.14e-04 -1.02e-03 -1.66e-04 9.05e-04 6.66e-04 -7.49e-05 2.57e-04  
## 2265 2.79e-02 1.45e-02 8.48e-03 -4.01e-03 -3.94e-03 -9.52e-04 -1.80e-02  
## 2266 2.51e-03 9.43e-03 -2.04e-02 -6.65e-03 3.00e-03 -4.10e-03 -7.58e-03  
## 2267 -1.66e-02 -1.77e-02 3.36e-02 2.01e-02 -8.22e-03 1.29e-02 2.03e-02  
## 2268 2.54e-03 1.08e-02 9.37e-04 1.68e-02 -2.62e-02 -8.72e-03 -6.94e-03  
## 2269 1.03e-03 1.77e-03 -6.74e-04 -3.06e-03 2.92e-03 -3.67e-04 1.34e-04  
## 2270 -2.20e-02 -1.92e-02 5.62e-03 1.20e-02 2.28e-02 -1.58e-02 -1.91e-02  
## 2271 7.80e-03 -1.18e-02 6.91e-03 1.10e-02 1.51e-02 6.42e-03 5.00e-03  
## 2272 4.84e-03 -1.35e-02 2.52e-02 -1.43e-02 7.34e-03 7.80e-03 -6.40e-03  
## 2273 -2.09e-02 -2.36e-02 2.23e-02 -3.21e-02 7.75e-04 -1.68e-02 9.26e-03  
## 2274 3.11e-03 -1.15e-02 2.99e-02 7.60e-03 -1.61e-03 -7.13e-03 -7.25e-03  
## 2275 -2.00e-04 1.27e-03 3.18e-03 2.02e-03 2.55e-06 3.05e-03 -1.71e-03  
## 2276 1.84e-02 -2.09e-02 4.91e-02 1.78e-02 -8.61e-03 9.92e-03 -1.95e-02  
## 2277 -2.12e-02 1.82e-02 1.15e-02 -1.13e-02 -2.92e-03 9.18e-04 4.09e-02  
## 2278 1.69e-03 -1.91e-02 -4.44e-02 -8.46e-03 4.65e-02 4.25e-03 4.93e-03  
## 2279 2.12e-02 -1.19e-02 8.76e-03 -3.36e-03 -3.13e-03 -1.21e-04 -1.48e-02  
## 2280 1.75e-03 8.13e-03 2.23e-03 1.26e-02 -1.82e-02 -7.93e-04 -4.15e-03  
## 2281 5.99e-03 -2.31e-02 2.58e-02 2.96e-02 -2.65e-02 -1.36e-02 4.01e-03  
## 2282 1.92e-02 1.30e-02 2.99e-02 -2.19e-02 1.01e-02 -5.19e-03 -1.10e-02  
## 2283 6.64e-03 -2.77e-02 -5.47e-02 1.87e-02 -1.99e-02 4.29e-02 4.73e-04  
## 2284 -3.53e-03 -1.94e-02 -1.46e-02 7.41e-03 6.10e-03 1.25e-02 1.81e-02  
## 2285 3.49e-04 5.43e-04 9.16e-05 -8.35e-05 6.13e-04 3.53e-04 -1.59e-04  
## 2286 -2.10e-02 1.65e-02 1.53e-02 3.09e-02 -2.12e-02 1.44e-02 -1.76e-02  
## 2287 3.66e-03 9.25e-03 7.94e-03 -4.15e-03 -2.02e-03 -1.82e-03 5.52e-03  
## 2288 -2.49e-03 1.63e-03 -1.49e-04 1.49e-04 1.66e-03 1.06e-03 2.59e-03  
## 2289 -5.36e-04 -2.52e-03 1.43e-03 2.54e-03 -3.71e-03 1.22e-03 3.61e-03  
## 2290 -1.17e-02 -1.08e-02 9.77e-03 -6.23e-03 -1.71e-03 -9.52e-03 9.31e-03  
## 2291 2.53e-02 -1.68e-02 1.02e-02 -4.35e-03 -5.59e-03 3.40e-02 -2.68e-02  
## 2292 -1.73e-02 1.18e-02 3.31e-02 7.01e-03 -1.72e-03 -1.38e-02 -5.78e-03  
## 2293 -4.70e-03 2.52e-02 2.23e-02 3.06e-02 -3.07e-02 6.14e-03 2.39e-03  
## 2294 -1.08e-02 3.94e-03 -2.43e-03 4.19e-04 -5.70e-03 -1.95e-03 2.22e-03  
## 2295 9.56e-04 6.71e-04 9.98e-05 -6.60e-04 -4.24e-04 -1.05e-04 -1.95e-04  
## 2296 -1.94e-02 2.17e-02 1.28e-02 3.27e-03 2.90e-02 1.44e-02 4.29e-03  
## 2297 9.88e-03 -1.84e-02 -1.91e-02 -3.89e-02 2.37e-02 5.22e-03 -1.10e-02  
## 2298 -3.71e-03 -3.19e-03 1.53e-04 -2.97e-04 3.54e-03 9.27e-04 4.84e-03  
## 2299 -6.03e-03 -2.17e-02 6.05e-03 -6.16e-03 -9.57e-03 1.70e-02 1.28e-02  
## 2300 -1.73e-03 4.58e-03 -4.51e-03 -4.84e-03 5.70e-03 -1.55e-03 7.66e-03  
## 2301 1.61e-02 1.55e-02 -1.12e-02 -5.61e-03 -2.09e-02 -1.15e-03 -8.56e-03  
## 2302 -2.34e-02 -1.89e-02 -1.32e-02 6.25e-03 4.17e-03 -2.84e-03 2.19e-02  
## 2303 8.65e-03 -9.32e-03 9.73e-04 -8.67e-03 -8.71e-03 -5.00e-03 -3.79e-03  
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## 2305 -1.51e-02 6.31e-03 -3.70e-03 7.64e-03 2.05e-03 -5.06e-03 2.48e-03  
## 2306 -6.81e-04 -1.35e-03 4.73e-04 -1.76e-03 -5.92e-04 -1.29e-03 -2.24e-03  
## 2307 1.32e-02 -9.35e-03 2.32e-02 4.51e-04 -1.79e-02 6.22e-03 1.01e-02  
## 2308 1.14e-04 3.07e-03 -2.57e-04 1.51e-03 2.05e-03 -2.16e-03 8.12e-06  
## 2309 4.73e-03 1.05e-02 -4.88e-03 -2.71e-03 -1.44e-02 -3.24e-03 -2.75e-03  
## 2310 -6.50e-03 3.57e-03 3.04e-04 -6.65e-04 4.16e-03 2.89e-03 4.96e-03  
## 2311 8.48e-03 7.53e-03 -1.01e-03 -3.29e-03 -8.69e-03 -3.62e-03 -1.44e-02  
## 2312 5.36e-03 5.78e-03 -9.50e-04 1.63e-03 3.20e-03 -6.65e-03 -1.48e-03  
## 2313 -2.51e-06 -2.19e-04 7.63e-06 -6.65e-05 -1.79e-04 1.75e-04 -2.42e-04  
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## 2315 -1.09e-02 1.79e-02 -8.56e-03 -1.45e-02 -2.29e-02 8.74e-03 2.04e-02  
## 2316 -3.83e-03 -2.23e-03 4.08e-05 -3.37e-05 2.26e-03 1.06e-03 3.61e-03  
## 2317 4.33e-04 -1.02e-02 1.79e-02 1.62e-02 -5.68e-03 2.34e-03 -2.52e-03  
## 2318 4.71e-04 1.97e-03 -7.34e-04 -3.93e-03 3.58e-03 -1.90e-03 -8.02e-04  
## 2319 -9.58e-03 1.41e-02 1.35e-02 -1.24e-02 -4.05e-04 -6.17e-03 9.84e-03  
## 2320 -5.58e-03 1.40e-02 -2.83e-02 2.25e-02 -9.45e-03 -1.74e-03 9.60e-03  
## 2321 1.55e-02 -6.61e-03 -6.44e-05 -6.43e-03 -6.86e-03 -1.08e-02 -1.89e-03  
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## 2324 2.16e-03 -1.72e-02 2.98e-02 -1.94e-02 9.42e-03 1.84e-03 -7.80e-03  
## 2325 -7.09e-03 -5.77e-03 -3.69e-03 6.36e-03 9.35e-04 8.57e-04 8.50e-04  
## 2326 5.24e-03 8.77e-03 -3.27e-03 -5.29e-03 -1.11e-02 3.21e-03 -1.82e-02  
## 2327 8.05e-03 -6.27e-03 -3.71e-03 -1.13e-02 9.95e-03 -3.94e-03 -9.89e-03  
## 2328 2.61e-03 -4.16e-03 -2.46e-03 -5.74e-03 6.04e-03 1.93e-03 -5.93e-04  
## 2329 -1.62e-03 1.04e-03 1.48e-04 2.07e-04 1.28e-03 -1.38e-03 1.69e-03  
## 2330 -1.10e-02 2.16e-02 3.75e-02 -3.19e-02 1.48e-02 -6.31e-03 -1.18e-02  
## 2331 6.04e-03 1.06e-02 -3.47e-03 3.80e-03 4.34e-03 -1.21e-03 -6.54e-03  
## 2332 1.76e-02 -1.62e-02 1.62e-02 2.97e-02 -1.98e-02 6.29e-03 -2.16e-02  
## 2333 -1.75e-03 2.00e-02 -3.93e-02 -3.20e-02 9.23e-03 5.82e-03 7.16e-03  
## 2334 7.59e-04 -3.95e-03 -1.60e-04 1.43e-04 3.47e-03 -1.11e-02 -2.09e-03  
## 2335 1.87e-03 9.93e-03 -1.96e-02 -9.93e-03 4.42e-03 -4.58e-03 7.20e-03  
## 2336 -1.38e-03 -4.16e-03 -1.01e-03 -1.07e-03 -4.64e-03 2.86e-03 7.27e-03  
## 2337 -1.90e-04 6.80e-04 5.05e-04 6.79e-04 -9.71e-04 1.28e-03 -1.89e-04  
## 2338 1.14e-02 -1.17e-02 -7.81e-03 1.08e-02 2.27e-03 7.18e-03 -4.75e-03  
## 2339 -4.92e-03 -1.38e-02 -8.57e-03 -2.81e-02 1.84e-02 -1.25e-02 -4.59e-03  
## 2340 -9.78e-03 -6.16e-03 1.76e-02 4.56e-03 6.85e-04 -9.84e-03 1.05e-02  
## 2341 1.47e-02 -5.96e-03 1.34e-03 8.91e-03 -1.28e-02 -1.06e-02 -1.93e-03  
## 2342 -4.31e-03 -3.93e-03 -2.34e-03 6.84e-04 -5.08e-03 -4.34e-03 1.56e-03  
## 2343 4.79e-03 4.97e-03 4.21e-04 -4.51e-03 -4.44e-03 -9.58e-03 -8.25e-03  
## 2344 -5.64e-04 2.05e-03 -8.49e-04 -3.34e-04 -2.76e-03 5.14e-03 3.88e-03  
## 2345 2.63e-03 -1.46e-03 4.86e-04 -1.79e-04 1.90e-03 1.41e-03 -9.50e-04  
## 2346 -6.96e-03 -2.14e-02 -1.80e-02 9.83e-03 4.71e-03 2.95e-03 -1.39e-02  
## 2347 4.29e-04 3.42e-03 -3.55e-05 -3.59e-03 -2.10e-03 -3.75e-05 -8.12e-04  
## 2348 1.25e-02 6.47e-03 -1.72e-03 2.40e-03 2.83e-03 -9.07e-03 -2.32e-03  
## 2349 -1.86e-02 2.07e-02 -1.58e-02 7.23e-03 4.00e-03 4.34e-03 2.05e-02  
## 2350 -3.16e-04 1.77e-03 6.05e-04 -1.66e-03 -1.28e-03 -4.45e-03 4.03e-04  
## 2351 2.39e-03 -3.46e-03 2.31e-04 1.71e-04 3.34e-03 -1.20e-03 -1.26e-03  
## 2352 -6.81e-03 6.20e-03 -3.92e-03 5.91e-03 1.53e-03 1.01e-02 -9.07e-04  
## 2353 -1.20e-04 2.72e-04 1.94e-04 2.86e-04 -3.58e-04 -2.52e-04 4.16e-04  
## 2354 -6.71e-05 1.61e-04 7.55e-05 2.24e-04 -2.50e-04 -3.35e-04 -3.29e-05  
## 2355 2.01e-02 7.96e-03 -5.83e-03 -1.13e-02 1.03e-02 1.02e-03 -1.73e-02  
## 2356 9.56e-04 -3.03e-03 -2.80e-04 5.76e-04 2.62e-03 -5.92e-03 -1.53e-03  
## 2357 2.09e-02 2.33e-02 -3.69e-03 -2.88e-02 4.53e-02 1.46e-02 5.43e-03  
## 2358 -2.44e-04 7.22e-03 -3.59e-03 -2.73e-03 -9.68e-03 1.35e-02 1.21e-02  
## 2359 -7.75e-03 1.20e-02 -4.99e-03 3.22e-03 4.59e-03 -1.32e-02 -5.94e-03  
## 2360 7.40e-03 1.78e-02 -1.91e-02 -3.15e-02 2.15e-02 3.15e-04 -1.19e-02  
## 2361 2.34e-03 1.67e-02 3.75e-02 1.55e-02 -5.36e-03 4.75e-03 -1.16e-02  
## 2362 1.56e-02 1.12e-02 -2.44e-02 -6.68e-03 3.52e-03 3.76e-03 -1.18e-02  
## 2363 -1.99e-03 1.10e-02 8.05e-03 -4.56e-03 -2.57e-03 -2.86e-03 -9.42e-03  
## 2364 1.31e-04 -3.14e-04 -2.68e-04 -2.96e-04 4.17e-04 -6.27e-04 1.08e-04  
## 2365 -4.60e-04 2.98e-04 -1.31e-04 4.05e-04 8.62e-05 -2.80e-04 1.08e-04  
## 2366 1.46e-04 2.21e-04 -1.62e-04 -1.97e-04 2.78e-04 -3.68e-04 9.91e-06  
## 2367 2.14e-02 -9.33e-03 -3.52e-03 3.13e-03 4.01e-03 -1.64e-02 -1.90e-02  
## 2368 -5.24e-03 -5.06e-03 -2.10e-04 -6.49e-04 5.27e-03 1.43e-03 7.34e-03  
## 2369 8.51e-05 1.38e-04 1.10e-05 2.09e-05 1.51e-04 -2.23e-04 -3.27e-05  
## 2370 5.70e-03 5.62e-03 -7.94e-04 1.43e-03 3.16e-03 -7.85e-03 -1.80e-03  
## 2371 8.08e-05 -2.55e-04 5.91e-04 -1.80e-04 2.12e-04 -4.42e-04 4.50e-04  
## 2372 -3.26e-03 1.12e-02 -3.79e-03 4.97e-03 6.11e-03 -8.85e-03 -4.64e-03  
## 2373 1.26e-03 2.84e-03 -3.92e-05 6.00e-03 -6.60e-03 4.83e-03 -6.14e-04  
## 2374 2.73e-02 1.92e-02 1.95e-02 3.01e-02 -2.15e-02 -1.15e-02 -2.79e-02  
## 2375 -1.02e-02 -1.61e-02 -2.68e-02 1.83e-02 -9.71e-03 2.00e-03 9.70e-03  
## 2376 9.14e-03 7.83e-03 -5.15e-03 -5.15e-04 -1.16e-02 2.53e-03 -1.98e-03  
## 2377 4.97e-04 3.60e-03 -1.67e-04 1.42e-03 2.45e-03 -4.74e-03 -2.17e-04  
## 2378 -1.36e-03 -3.21e-03 -6.63e-04 2.12e-03 1.83e-03 -3.03e-05 5.86e-03  
## 2379 -1.38e-02 1.03e-02 -4.87e-03 -8.95e-03 -1.42e-02 -5.63e-03 1.96e-02  
## 2380 -7.03e-03 1.41e-02 2.35e-02 -1.50e-02 6.61e-03 2.80e-03 -4.57e-03  
## 2381 -1.10e-02 -1.20e-02 -1.50e-04 1.53e-02 -2.39e-02 -1.37e-02 1.67e-02  
## 2382 -2.27e-03 -5.02e-03 -1.08e-03 -2.16e-03 -5.32e-03 6.62e-03 -2.83e-04  
## 2383 1.73e-02 2.25e-02 -1.78e-02 1.10e-02 5.42e-03 2.10e-02 -2.04e-02  
## 2384 3.03e-03 -1.51e-02 -6.74e-03 4.48e-03 4.24e-03 -9.03e-03 -8.95e-03  
## 2385 -2.53e-03 -2.68e-03 1.81e-04 -2.59e-04 3.51e-03 -1.25e-03 4.39e-03  
## 2386 3.26e-03 -3.29e-03 6.44e-04 -2.93e-03 -2.80e-03 -6.29e-03 1.04e-04  
## 2387 3.74e-03 1.49e-02 -8.21e-03 6.68e-03 5.22e-03 -5.75e-03 -3.41e-02  
## 2388 -1.46e-03 1.86e-02 -1.68e-02 1.32e-02 2.56e-03 7.20e-03 -1.08e-02  
## 2389 -1.30e-02 1.83e-02 9.10e-03 6.38e-03 2.33e-02 9.90e-04 7.39e-03  
## 2390 -1.19e-02 5.34e-03 -5.35e-03 7.60e-03 7.56e-04 3.00e-03 1.56e-03  
## 2391 -1.49e-02 -1.73e-02 3.15e-02 -2.11e-02 1.24e-02 -8.73e-03 -5.06e-03  
## 2392 -5.28e-03 -1.03e-02 2.19e-02 -1.29e-02 9.04e-03 -6.00e-03 -1.64e-03  
## 2393 1.69e-03 -9.89e-03 7.15e-03 -3.42e-03 -2.41e-03 -4.98e-03 -6.91e-03  
## 2394 -2.51e-03 -1.36e-02 -4.56e-03 -1.34e-02 -1.49e-02 -2.14e-02 1.89e-02  
## 2395 1.87e-02 -1.53e-02 -1.43e-02 -2.88e-02 1.96e-02 -1.42e-02 1.70e-02  
## 2396 1.75e-02 -1.14e-02 9.29e-04 2.00e-02 -2.82e-02 9.05e-03 1.08e-02  
## 2397 6.20e-03 9.39e-03 3.01e-02 1.70e-02 -2.61e-02 -6.66e-04 -6.07e-03  
## 2398 5.30e-03 4.49e-03 1.56e-03 6.87e-03 -9.77e-03 -4.47e-03 -1.15e-03  
## 2399 -7.29e-03 3.03e-03 1.71e-03 3.30e-03 -4.29e-03 -1.49e-03 5.88e-04  
## 2400 3.35e-03 -9.03e-03 -4.81e-03 -2.50e-03 -1.13e-02 -3.93e-03 -7.61e-04  
## 2401 -1.16e-02 1.16e-02 6.27e-03 8.99e-03 1.55e-02 -6.71e-03 -8.92e-03  
## 2402 -5.72e-03 9.61e-03 8.29e-03 -4.41e-03 -2.50e-03 -8.04e-03 -8.03e-03  
## 2403 1.28e-02 1.26e-02 1.21e-02 2.65e-02 -1.63e-02 5.66e-03 -1.57e-02  
## 2404 2.55e-04 8.61e-04 -1.36e-04 3.49e-04 6.55e-04 -6.75e-04 -3.68e-04  
## 2405 1.13e-02 8.67e-03 -1.78e-03 -5.02e-03 -9.50e-03 -2.30e-03 1.12e-02  
## 2406 -1.32e-02 -1.16e-02 -1.28e-02 -1.66e-02 1.34e-02 7.07e-03 -1.19e-05  
## 2407 -6.04e-05 -8.86e-05 -2.32e-05 -2.18e-04 1.96e-04 -1.44e-05 1.49e-04  
## 2408 3.81e-02 2.92e-02 1.59e-02 4.65e-02 -4.23e-02 -2.37e-02 -5.18e-02  
## 2409 -1.06e-03 6.21e-03 1.28e-03 -5.13e-03 -5.13e-03 -1.23e-02 9.95e-03  
## 2410 5.87e-03 -3.50e-03 -1.72e-03 -6.58e-03 5.89e-03 -3.46e-03 -5.72e-05  
## 2411 -1.17e-03 1.51e-02 -3.12e-02 7.58e-05 2.96e-02 -3.82e-03 6.15e-03  
## 2412 -3.33e-03 1.75e-02 -1.44e-02 1.50e-02 3.09e-03 -6.13e-03 -7.79e-03  
## 2413 -6.53e-03 8.76e-03 -3.25e-03 2.78e-03 3.69e-03 -5.70e-03 1.36e-02  
## 2414 2.43e-03 -1.60e-02 3.20e-02 1.81e-02 -7.62e-03 -3.33e-04 -8.39e-03  
## 2415 -6.12e-04 -5.73e-03 -1.55e-04 2.59e-03 2.71e-03 -5.88e-03 -1.74e-03  
## 2416 1.11e-03 1.06e-02 -1.53e-03 -9.97e-03 -1.10e-02 -1.56e-02 1.50e-02  
## 2417 -3.71e-03 6.33e-03 -6.25e-03 8.61e-03 2.69e-04 1.88e-02 1.10e-02  
## 2418 -3.36e-02 2.03e-02 4.51e-02 1.20e-02 -5.99e-03 -7.14e-03 2.14e-02  
## 2419 9.10e-04 -3.42e-03 -2.55e-04 1.62e-03 2.04e-03 -2.24e-03 5.86e-05  
## 2420 3.12e-04 2.41e-02 1.90e-02 -3.50e-02 -6.61e-03 3.90e-02 -3.36e-03  
## 2421 7.80e-03 5.28e-03 -1.86e-03 3.08e-03 2.30e-03 3.01e-03 -1.41e-03  
## 2422 5.35e-03 -1.14e-02 -1.04e-02 -2.14e-02 1.50e-02 -8.99e-03 1.56e-02  
## 2423 2.43e-02 -1.65e-02 9.49e-03 -4.83e-03 -5.42e-03 2.44e-02 -2.54e-02  
## 2424 -9.94e-03 -1.63e-02 8.81e-03 -3.63e-02 4.33e-02 -5.76e-03 9.13e-03  
## 2425 -3.19e-03 5.06e-03 9.90e-03 -4.65e-03 3.91e-03 3.89e-04 7.35e-03  
## 2426 -5.60e-03 4.20e-03 -6.59e-04 3.16e-03 2.61e-03 -1.59e-03 -2.58e-05  
## 2427 2.83e-02 -1.49e-02 -3.83e-02 -8.63e-03 3.65e-03 2.88e-02 -2.23e-02  
## 2428 2.01e-03 -3.50e-03 8.01e-03 -3.93e-03 3.49e-03 4.23e-03 -5.18e-03  
## 2429 -2.66e-03 8.47e-03 -1.36e-03 3.33e-03 4.28e-03 -5.33e-03 1.23e-02  
## 2430 8.60e-03 -5.47e-03 5.08e-04 -5.30e-03 -5.14e-03 -7.71e-03 -1.06e-03  
## 2431 1.20e-02 -1.23e-02 3.64e-04 1.92e-02 -2.60e-02 4.72e-04 -7.41e-03  
## 2432 -1.06e-02 -1.32e-02 2.95e-02 1.40e-02 -4.61e-03 9.56e-03 1.63e-02  
## 2433 8.91e-03 -7.95e-03 -2.19e-03 3.40e-03 3.75e-03 2.47e-04 -4.68e-03  
## 2434 -2.73e-02 1.11e-02 8.14e-03 -7.07e-03 -3.18e-03 -8.37e-03 1.18e-02  
## 2435 1.96e-03 1.88e-03 2.72e-04 -1.43e-03 -1.64e-03 -2.86e-03 1.18e-04  
## 2436 7.46e-03 3.56e-03 -4.77e-04 -2.20e-03 -3.92e-03 2.12e-03 -6.84e-04  
## 2437 -3.48e-02 -2.21e-02 4.86e-02 1.34e-02 -4.89e-03 8.03e-03 2.24e-02  
## 2438 6.93e-03 -8.76e-03 -1.79e-02 -6.60e-03 2.73e-03 -1.03e-03 6.18e-03  
## 2439 -6.51e-05 -1.66e-04 -6.67e-05 4.23e-05 -1.98e-04 -2.49e-04 5.59e-05  
## 2440 -3.58e-03 1.27e-02 -2.46e-02 -1.47e-02 5.79e-03 -5.44e-03 8.73e-03  
## 2441 -1.17e-02 -1.11e-02 -3.71e-03 -6.64e-03 -1.30e-02 8.19e-03 1.61e-02  
## 2442 -4.04e-03 1.25e-02 1.19e-02 -8.55e-03 -2.64e-03 -4.90e-03 7.69e-03  
## 2443 -1.58e-02 1.74e-02 -1.30e-02 7.44e-03 3.67e-03 4.01e-03 1.83e-02  
## 2444 -1.20e-02 8.93e-03 -1.84e-02 -8.95e-03 3.80e-03 -6.36e-03 9.93e-03  
## 2445 1.51e-02 1.12e-02 -2.40e-03 -8.98e-03 -1.35e-02 -7.04e-03 -7.51e-03  
## 2446 4.87e-05 -2.74e-04 -8.55e-05 6.38e-05 -3.58e-04 -4.89e-04 1.04e-04  
## 2447 -2.60e-03 -2.02e-02 8.33e-03 8.65e-03 2.11e-02 4.48e-04 4.66e-03  
## 2448 1.60e-02 -1.23e-02 -2.50e-02 -1.05e-02 4.77e-03 3.35e-03 5.90e-03  
## 2449 -2.36e-02 -2.19e-02 4.54e-02 1.53e-02 -7.97e-03 -7.37e-03 -1.24e-02  
## 2450 6.67e-04 1.56e-03 4.41e-04 -1.92e-03 -8.87e-04 -4.13e-03 1.74e-03  
## 2451 -1.03e-02 1.31e-02 8.63e-03 -4.86e-03 -3.43e-03 -1.08e-02 -1.19e-02  
## 2452 -2.11e-05 1.03e-04 5.27e-06 -3.88e-05 -8.91e-05 6.97e-05 -1.31e-04  
## 2453 -1.09e-02 8.53e-03 1.70e-02 -8.68e-03 6.66e-03 -4.99e-04 1.34e-02  
## 2454 -7.02e-03 1.07e-02 2.05e-02 -9.29e-03 8.50e-03 -1.37e-02 -9.48e-04  
## 2455 1.19e-02 6.81e-03 -1.85e-03 2.43e-03 3.06e-03 -8.21e-03 -2.27e-03  
## 2456 3.31e-04 1.34e-03 -2.11e-04 4.97e-04 1.02e-03 -1.44e-03 -5.15e-04  
## 2457 -7.25e-04 1.87e-03 5.77e-04 -2.25e-03 -8.92e-04 -6.38e-03 -4.31e-04  
## 2458 2.50e-02 1.04e-02 2.49e-03 1.33e-02 -1.98e-02 -1.37e-03 -7.42e-03  
## 2459 -7.67e-04 2.27e-02 -2.47e-02 -3.99e-02 2.49e-02 -8.40e-03 -1.10e-02  
## 2460 1.04e-02 1.02e-02 8.76e-03 -3.80e-03 -1.85e-03 2.27e-03 3.89e-03  
## 2461 7.29e-03 -1.65e-02 1.06e-02 -5.23e-03 -4.06e-03 3.10e-02 -2.18e-02  
## 2462 1.56e-03 -2.16e-03 -2.40e-04 5.81e-04 1.89e-03 -4.95e-03 -1.16e-03  
## 2463 -4.17e-03 9.24e-03 -4.36e-03 -2.30e-03 -1.29e-02 -2.73e-03 -8.35e-04  
## 2464 -1.32e-02 -1.61e-02 1.39e-02 3.24e-02 -2.20e-02 1.66e-02 -1.57e-02  
## 2465 4.46e-04 -2.48e-03 -2.94e-04 1.50e-03 1.42e-03 7.77e-04 1.48e-04  
## 2466 1.41e-04 -2.47e-04 -1.58e-04 -2.97e-04 4.05e-04 4.46e-04 -3.05e-04  
## 2467 -1.13e-02 1.93e-02 2.51e-02 2.42e-02 -2.08e-02 -4.79e-03 6.86e-03  
## 2468 7.25e-04 -5.12e-03 2.01e-03 5.72e-03 -8.00e-03 -1.34e-03 6.33e-03  
## 2469 8.07e-03 -5.26e-03 4.12e-04 -4.89e-03 -4.97e-03 -6.03e-03 -9.06e-04  
## 2470 9.92e-03 -1.42e-02 -1.47e-02 1.55e-02 -1.01e-04 1.04e-02 -6.64e-03  
## 2471 -9.74e-04 -9.38e-04 -2.72e-04 1.03e-03 3.86e-04 -1.98e-04 1.63e-03  
## 2472 -2.86e-03 -3.51e-03 1.38e-03 3.99e-03 -5.50e-03 -9.68e-04 7.97e-05  
## 2473 -6.16e-03 2.03e-02 -1.30e-02 6.80e-03 5.35e-03 1.32e-02 1.88e-02  
## 2474 -1.49e-02 9.81e-03 -3.28e-03 2.97e-03 4.46e-03 -7.03e-03 -3.78e-03  
## 2475 -6.09e-04 -9.72e-04 1.77e-05 1.54e-04 9.43e-04 3.48e-04 1.30e-03  
## 2476 9.07e-03 -1.80e-02 -2.97e-02 1.60e-02 -8.70e-03 1.43e-03 5.01e-03  
## 2477 -7.47e-05 5.28e-04 1.23e-03 -4.90e-04 5.84e-04 5.66e-04 -6.54e-04  
## 2478 -1.58e-03 -1.31e-02 -8.19e-03 -2.72e-02 1.78e-02 -1.59e-02 -5.12e-03  
## 2479 -2.08e-02 -2.03e-02 -4.55e-02 -1.62e-03 3.84e-02 -8.86e-03 9.14e-03  
## 2480 5.76e-03 4.26e-03 2.11e-04 -4.10e-03 -4.42e-03 -3.03e-03 -6.23e-04  
## 2481 6.14e-03 1.34e-02 1.16e-02 -7.77e-03 -1.50e-03 -4.13e-03 6.38e-03  
## 2482 -6.32e-03 -1.36e-02 -5.73e-03 -7.50e-03 -1.78e-02 -2.78e-03 -1.06e-03  
## 2483 3.16e-03 3.34e-03 -4.59e-04 1.80e-03 1.47e-03 1.50e-03 -1.12e-03  
## 2484 -6.72e-03 -2.36e-02 8.44e-03 -1.64e-02 -6.78e-03 -2.69e-02 1.05e-02  
## 2485 -4.76e-03 2.34e-03 3.69e-04 -3.96e-05 2.85e-03 -2.01e-03 4.00e-03  
## 2486 -2.09e-02 9.10e-03 2.41e-04 1.99e-02 -2.11e-02 -3.38e-03 1.65e-03  
## 2487 3.26e-03 -2.26e-03 -1.28e-03 -3.58e-03 3.31e-03 3.48e-03 -6.76e-05  
## 2488 -2.74e-02 -2.08e-02 1.24e-02 3.88e-02 -2.82e-02 3.49e-03 -2.25e-02  
## 2489 1.29e-02 -1.96e-02 -2.52e-02 -4.19e-02 2.64e-02 3.08e-03 -1.40e-02  
## 2490 3.90e-02 -1.77e-02 1.61e-02 -1.57e-02 -2.44e-03 -8.94e-03 4.62e-04  
## 2491 3.54e-03 -2.70e-03 -1.42e-03 -4.50e-03 4.34e-03 9.94e-04 1.43e-04  
## 2492 -4.88e-04 1.36e-03 5.36e-05 7.19e-04 1.02e-03 -2.40e-03 2.76e-04  
## 2493 8.61e-03 -5.96e-03 -2.28e-03 -1.25e-02 9.26e-03 -8.44e-03 -1.41e-03  
## 2494 4.89e-03 6.56e-03 -3.71e-03 -1.22e-02 9.33e-03 3.93e-03 -2.88e-03  
## 2495 3.59e-04 1.72e-03 4.50e-04 3.72e-03 -3.70e-03 1.62e-03 -4.42e-04  
## 2496 6.14e-05 1.97e-04 2.57e-05 -6.34e-05 -2.16e-04 9.62e-05 2.90e-06  
## 2497 2.01e-03 -3.29e-03 -1.65e-04 2.64e-04 2.96e-03 -1.09e-02 -1.88e-03  
## 2498 -8.71e-05 2.19e-04 9.31e-05 -2.70e-04 -9.24e-05 -6.51e-04 2.74e-04  
## 2499 -2.95e-04 -3.80e-04 -9.33e-06 1.60e-04 3.63e-04 -3.17e-04 -8.63e-05  
## 2500 1.06e-02 -1.54e-02 9.07e-03 -4.82e-03 -4.73e-03 -3.17e-04 -1.67e-02  
## 2501 3.62e-03 -2.12e-03 -4.20e-05 -1.14e-03 -2.14e-03 -2.06e-04 1.37e-04  
## 2502 -1.59e-05 5.61e-04 -1.34e-03 4.51e-04 -6.17e-04 -1.13e-03 6.97e-04  
## 2503 -2.09e-05 -1.52e-04 9.61e-05 1.76e-04 -2.47e-04 -3.46e-04 1.87e-04  
## 2504 -1.51e-03 -4.47e-03 -2.87e-03 6.04e-03 8.82e-04 -5.25e-03 5.15e-04  
## 2505 -3.03e-04 4.22e-04 2.86e-04 4.77e-04 -6.92e-04 -8.78e-04 5.18e-04  
## 2506 1.39e-02 -1.08e-02 8.88e-03 -3.59e-03 -2.46e-03 1.31e-03 5.58e-03  
## 2507 -8.60e-03 1.20e-02 2.41e-02 -1.46e-02 9.44e-03 -6.28e-03 1.50e-02  
## 2508 9.86e-03 -4.65e-03 -1.85e-03 -8.88e-03 7.52e-03 -2.87e-03 -2.43e-03  
## 2509 1.05e-03 -1.84e-03 -2.99e-04 6.99e-04 1.56e-03 -2.69e-03 -7.97e-04  
## 2510 1.65e-03 1.25e-02 -2.46e-02 -1.30e-02 5.77e-03 -6.12e-03 7.98e-03  
## 2511 1.21e-03 -1.81e-03 -1.06e-03 2.72e-03 5.06e-04 -2.78e-03 1.43e-04  
## 2512 1.87e-03 8.41e-03 -1.67e-02 -7.94e-03 3.72e-03 -3.55e-03 5.84e-03  
## 2513 1.48e-02 -1.22e-02 -2.61e-02 -7.45e-03 3.65e-03 8.90e-03 -1.21e-02  
## 2514 1.33e-02 1.96e-02 -1.80e-02 1.42e-02 2.49e-03 4.59e-03 -1.27e-02  
## 2515 6.90e-03 2.36e-02 -2.49e-02 -4.48e-02 2.90e-02 3.45e-03 -1.63e-02  
## 2516 1.44e-03 -1.10e-03 3.31e-04 -5.25e-04 -9.44e-04 -6.03e-05 -2.78e-04  
## 2517 1.26e-02 -1.45e-02 -2.41e-02 1.80e-02 -7.78e-03 4.50e-04 4.82e-03  
## 2518 4.88e-03 4.66e-03 -9.56e-04 -1.08e-03 -6.24e-03 4.69e-03 -9.70e-03  
## 2519 -1.06e-04 1.56e-03 -2.33e-04 5.55e-04 1.26e-03 -1.02e-03 -6.60e-04  
## 2520 2.81e-03 -3.94e-03 -1.23e-03 -9.94e-03 8.07e-03 -1.25e-02 -2.10e-03  
## 2521 3.64e-04 -7.71e-04 2.42e-04 -7.90e-05 9.10e-04 7.20e-04 -2.80e-04  
## 2522 -2.56e-02 -2.50e-02 3.42e-03 -6.02e-03 -1.41e-02 3.69e-02 8.16e-03  
## 2523 3.66e-03 1.08e-02 9.79e-03 -5.57e-03 -1.28e-03 -1.57e-03 6.89e-03  
## 2524 5.20e-03 1.24e-02 9.39e-03 -6.10e-03 -2.84e-03 1.45e-03 -1.36e-02  
## 2525 1.01e-02 -2.73e-02 -7.40e-02 -3.60e-02 3.89e-03 -1.79e-02 1.03e-02  
## 2526 2.25e-02 -1.88e-02 -1.18e-02 8.80e-03 3.73e-03 2.33e-02 1.35e-02  
## 2527 -3.77e-05 6.36e-05 4.14e-05 7.31e-05 -1.04e-04 -1.46e-04 8.01e-05  
## 2528 -1.33e-03 -1.22e-02 2.82e-02 1.56e-02 -4.67e-03 1.55e-04 1.50e-02  
## 2529 -3.25e-03 1.77e-03 -3.73e-04 -3.82e-05 -1.88e-03 1.92e-03 4.12e-03  
## 2530 9.80e-04 1.98e-03 -1.84e-03 -1.96e-03 2.23e-03 -1.06e-03 3.20e-04  
## 2531 -1.68e-03 1.03e-03 -2.56e-03 7.42e-04 -9.71e-04 1.05e-03 1.71e-03  
## 2532 -2.32e-02 -2.91e-02 7.07e-03 -1.93e-02 -1.57e-02 2.36e-02 4.43e-02  
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## 2534 -1.11e-02 6.33e-03 -1.58e-04 -3.96e-03 -6.32e-03 -4.07e-03 1.34e-02  
## 2535 -2.56e-04 1.73e-03 8.19e-05 1.14e-04 1.55e-03 -2.97e-03 1.76e-03  
## 2536 1.80e-04 -3.36e-04 -1.84e-04 5.10e-04 9.16e-05 -4.17e-04 9.67e-07  
## 2537 -4.48e-04 -1.66e-03 -4.51e-04 1.71e-04 -1.77e-03 1.51e-03 3.06e-03  
## 2538 -1.44e-03 6.81e-03 1.56e-03 1.38e-02 -1.61e-02 5.40e-03 -1.45e-03  
## 2539 -1.76e-04 -1.39e-02 9.42e-03 -7.75e-03 -3.98e-03 -1.35e-02 9.63e-03  
## 2540 1.68e-02 -1.08e-02 -6.04e-03 -2.05e-02 1.78e-02 -5.00e-03 -2.56e-02  
## 2541 -2.14e-03 1.58e-03 -3.10e-05 1.30e-04 1.76e-03 -1.45e-03 -9.45e-06  
## 2542 1.70e-02 -8.14e-03 -2.29e-03 5.61e-03 2.80e-03 6.23e-03 -5.10e-03  
## 2543 5.64e-04 3.23e-04 4.53e-05 -2.91e-04 -2.04e-04 -3.73e-04 -6.65e-04  
## 2544 -2.98e-02 1.89e-02 4.14e-02 1.34e-02 -6.19e-03 -6.17e-03 2.11e-02  
## 2545 5.69e-03 5.80e-03 -8.61e-04 1.48e-03 3.25e-03 -7.86e-03 -1.70e-03  
## 2546 6.98e-04 2.04e-03 -2.45e-04 5.51e-04 1.58e-03 -3.46e-03 -8.98e-04  
## 2547 7.34e-03 -4.31e-03 -8.48e-04 1.98e-03 2.07e-03 -4.41e-03 -1.09e-03  
## 2548 1.71e-03 -2.53e-03 -1.48e-03 -3.69e-03 3.91e-03 2.83e-03 -3.36e-03  
## 2549 7.20e-03 7.01e-03 1.97e-02 4.00e-03 -6.35e-05 -1.18e-02 -3.03e-03  
## 2550 -1.26e-03 -1.16e-02 -4.87e-03 5.54e-03 2.87e-03 3.83e-03 -5.14e-03  
## 2551 1.07e-02 -1.16e-02 -3.81e-03 4.95e-03 5.09e-03 -1.15e-03 -7.25e-03  
## 2552 -3.29e-03 1.06e-02 -1.20e-02 -1.53e-02 1.27e-02 9.73e-03 -2.30e-03  
## 2553 -1.58e-02 1.02e-02 -3.47e-03 2.94e-03 4.62e-03 -7.22e-03 -3.61e-03  
## 2554 2.12e-04 -1.87e-03 -2.93e-04 1.33e-03 1.03e-03 2.21e-03 1.73e-04  
## 2555 1.98e-05 2.44e-04 -1.93e-04 -2.26e-04 3.16e-04 -3.99e-04 5.75e-05  
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## 2557 -3.78e-04 -1.20e-03 -5.38e-04 2.44e-04 -1.42e-03 -1.45e-03 3.78e-04  
## 2558 -2.40e-03 1.32e-03 -1.55e-04 -1.21e-04 -1.50e-03 1.05e-03 3.12e-03  
## 2559 -3.22e-04 -1.29e-02 -2.63e-02 -1.40e-02 4.88e-03 -1.20e-02 1.02e-02  
## 2560 -2.47e-02 -2.03e-02 6.94e-03 -1.27e-02 -7.23e-03 3.20e-03 4.31e-02  
## 2561 6.28e-03 -4.12e-03 3.48e-04 -3.17e-03 -3.73e-03 -1.24e-02 -6.36e-03  
## 2562 -5.96e-03 4.01e-03 -1.96e-04 -3.41e-04 4.30e-03 2.98e-03 5.78e-03  
## 2563 8.04e-04 -2.09e-02 2.84e-02 2.59e-02 -2.41e-02 -1.02e-02 3.97e-03  
## 2564 -2.72e-04 1.26e-03 4.04e-04 -1.09e-03 -9.32e-04 -2.45e-03 3.08e-04  
## 2565 5.62e-05 1.94e-03 1.06e-03 2.14e-03 -3.17e-03 -4.29e-03 2.11e-03  
## 2566 -3.87e-04 -1.41e-02 1.68e-02 2.18e-02 -1.58e-02 -1.24e-03 6.86e-03  
## 2567 -5.26e-03 -8.68e-03 -1.69e-03 -2.59e-03 -9.93e-03 -5.77e-03 1.35e-02  
## 2568 -3.14e-04 1.86e-03 1.05e-03 2.09e-03 -3.10e-03 -3.90e-03 2.08e-03  
## 2569 -1.05e-03 1.76e-02 7.50e-03 -4.77e-03 -5.05e-03 7.44e-03 1.07e-02  
## 2570 6.96e-03 -1.40e-02 -2.67e-02 -1.80e-02 7.37e-03 -1.28e-03 6.50e-03  
## 2571 3.69e-03 -2.47e-03 -7.18e-04 1.85e-03 1.05e-03 2.73e-03 -3.84e-04  
## 2572 1.14e-02 -7.51e-03 -4.08e-03 -1.10e-03 -1.11e-02 3.93e-04 1.03e-02  
## 2573 -2.43e-03 6.91e-03 6.40e-03 -3.13e-03 -1.32e-03 -3.65e-03 6.12e-03  
## 2574 -1.77e-02 1.71e-02 -4.12e-02 3.56e-03 3.23e-02 -1.60e-02 -1.46e-02  
## 2575 7.61e-04 -1.19e-03 1.08e-04 -1.11e-03 -8.40e-04 -1.07e-03 -4.20e-04  
## 2576 5.85e-03 -1.82e-02 4.59e-02 3.91e-02 -5.38e-02 1.43e-02 -9.16e-03  
## 2577 5.94e-03 4.78e-03 -9.01e-04 1.87e-03 2.43e-03 -4.76e-03 -1.19e-03  
## 2578 3.38e-02 -2.00e-02 -9.59e-03 3.63e-02 -4.99e-02 1.89e-02 -1.90e-02  
## 2579 7.42e-04 1.76e-03 -5.07e-03 -2.50e-03 -2.93e-05 -1.91e-04 -9.45e-05  
## 2580 4.00e-03 -2.98e-03 -2.33e-03 -3.93e-03 4.11e-03 4.41e-03 -7.17e-04  
## 2581 -1.27e-04 -2.06e-04 -4.70e-06 1.49e-04 1.41e-04 4.65e-05 5.97e-05  
## 2582 2.40e-03 -1.99e-03 -1.46e-04 -8.93e-04 -1.97e-03 4.20e-03 -4.25e-05  
## 2583 5.90e-04 1.15e-03 4.21e-04 2.11e-03 -2.34e-03 -2.35e-04 9.80e-05  
## 2584 -2.95e-03 -8.78e-03 -1.15e-03 2.60e-03 3.31e-03 -1.92e-03 -2.95e-03  
## 2585 1.32e-02 -9.51e-03 -1.95e-02 -6.38e-03 3.26e-03 3.16e-03 4.95e-03  
## 2586 5.13e-03 -1.41e-02 2.77e-02 -2.00e-02 9.70e-03 2.47e-03 1.35e-02  
## 2587 4.19e-03 -1.20e-02 -9.53e-03 -9.12e-04 -1.72e-02 5.28e-03 -1.87e-03  
## 2588 5.76e-03 -5.30e-03 -9.00e-04 1.99e-03 2.54e-03 -2.30e-03 -1.26e-03  
## 2589 -3.21e-04 3.32e-03 -2.77e-04 4.81e-04 2.83e-03 -5.44e-03 -1.68e-03  
## 2590 8.97e-04 -3.39e-03 -3.03e-03 -3.54e-03 4.40e-03 -5.72e-03 1.31e-04  
## 2591 1.81e-04 -4.98e-04 -3.01e-04 -4.81e-04 6.49e-04 -1.53e-04 -6.97e-04  
## 2592 4.89e-03 -8.55e-03 -9.76e-04 -5.77e-03 -8.55e-03 -6.17e-03 -2.94e-03  
## 2593 1.36e-03 4.10e-03 -4.60e-03 -3.85e-03 4.88e-03 -3.34e-03 -8.91e-05  
## 2594 -1.19e-02 -1.82e-02 -1.30e-02 7.77e-03 3.22e-03 3.60e-03 1.89e-02  
## 2595 -3.74e-03 5.26e-03 8.64e-04 -7.13e-03 -2.31e-03 -3.98e-03 -6.54e-05  
## 2596 -3.12e-02 -1.80e-02 -1.06e-02 5.39e-03 4.86e-03 -2.58e-03 2.21e-02  
## 2597 -1.82e-04 -6.99e-04 -2.96e-04 1.14e-04 -9.26e-04 -8.58e-04 2.21e-04  
## 2598 3.18e-03 -5.51e-03 -2.84e-03 2.19e-04 -7.51e-03 -3.63e-03 2.49e-04  
## 2599 2.74e-06 -3.79e-05 -2.09e-05 5.63e-05 8.98e-06 -5.65e-05 7.53e-06  
## 2600 3.44e-03 -1.65e-02 -1.46e-02 1.49e-02 1.02e-03 7.23e-03 -8.53e-03  
## 2601 4.18e-04 -4.13e-03 -9.40e-05 1.83e-03 2.95e-03 -7.70e-03 4.33e-04  
## 2602 9.98e-03 -1.30e-02 -1.10e-02 1.20e-02 3.11e-03 1.14e-02 -7.53e-03  
## 2603 1.84e-02 -1.12e-02 -2.49e-02 -6.64e-03 3.29e-03 4.04e-03 -1.17e-02  
## 2604 -1.04e-02 -2.31e-02 1.66e-03 2.30e-02 2.53e-02 2.63e-02 -3.44e-02  
## 2605 -1.09e-02 -2.04e-02 2.83e-02 2.38e-02 -2.17e-02 -7.90e-03 6.67e-03  
## 2606 2.66e-02 2.78e-02 3.90e-03 -4.76e-02 5.75e-02 -3.10e-02 -4.15e-02  
## 2607 1.94e-02 -1.42e-02 1.41e-02 2.86e-02 -1.84e-02 3.61e-03 -1.84e-02  
## 2608 2.63e-02 -1.07e-02 -1.52e-03 -8.36e-03 -1.28e-02 2.00e-03 -2.52e-02  
## 2609 3.97e-03 1.07e-02 9.42e-03 -3.83e-03 -2.73e-03 -1.24e-03 6.51e-03  
## 2610 5.05e-03 2.91e-02 1.24e-02 -9.29e-04 4.03e-02 5.42e-03 -8.62e-03  
## 2611 -4.90e-03 3.29e-03 1.03e-03 -5.01e-03 -1.26e-03 2.12e-03 5.17e-03  
## 2612 -2.94e-03 -2.04e-02 3.91e-03 1.94e-02 2.45e-02 2.86e-02 7.64e-03  
## 2613 -4.28e-02 2.43e-02 5.43e-03 -5.96e-03 -1.14e-02 3.58e-02 9.53e-03  
## 2614 1.01e-03 1.59e-03 2.02e-04 -1.16e-03 -1.45e-03 -7.47e-04 1.67e-04  
## 2615 -2.32e-02 1.51e-02 -3.24e-02 -1.81e-02 7.27e-03 -1.21e-02 1.27e-02  
## 2616 1.43e-02 7.70e-03 -1.24e-03 4.01e-03 3.21e-03 5.17e-03 -6.02e-03  
## 2617 -8.80e-04 -2.00e-03 1.04e-03 2.23e-03 -3.00e-03 -4.04e-04 4.21e-05  
## 2618 -1.26e-02 9.96e-03 2.84e-02 -3.24e-03 -1.80e-02 -7.15e-03 -1.79e-02  
## 2619 -5.71e-03 -1.59e-02 -2.77e-03 2.56e-02 -3.74e-02 -1.90e-03 -5.56e-03  
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## 2623 5.94e-05 -1.98e-03 -3.00e-04 1.61e-03 1.32e-03 -1.28e-03 -2.61e-03  
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## 2625 2.79e-02 -1.45e-02 9.22e-03 -4.83e-03 -4.23e-03 4.36e-03 -1.89e-02  
## 2626 -4.24e-03 2.37e-03 -1.69e-03 -2.75e-03 3.26e-03 -1.67e-03 1.25e-03  
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## 2628 -2.35e-03 -2.87e-03 -1.07e-03 2.93e-03 1.10e-03 1.43e-03 -7.45e-05  
## 2629 1.27e-03 -2.55e-03 -2.39e-03 -2.99e-03 3.49e-03 -2.09e-03 5.20e-04  
## 2630 -6.94e-04 -1.35e-02 9.81e-03 2.75e-02 -1.77e-02 -3.28e-03 -1.23e-02  
## 2631 4.40e-04 -5.05e-04 1.39e-04 -6.03e-04 -3.37e-04 -1.18e-03 6.25e-04  
## 2632 1.05e-03 -1.85e-03 4.10e-03 -1.26e-03 1.49e-03 -3.44e-03 -7.73e-06  
## 2633 -8.18e-04 -8.75e-04 1.31e-04 -4.23e-04 -7.90e-04 -5.39e-04 1.81e-03  
## 2634 -8.67e-03 -2.55e-02 1.58e-02 -2.81e-02 -4.62e-03 2.06e-03 -3.29e-02  
## 2635 -5.89e-03 -2.20e-02 1.09e-02 -1.34e-02 -7.44e-03 -5.54e-03 4.38e-02  
## 2636 1.52e-02 1.42e-02 -9.05e-03 8.61e-03 1.94e-03 8.45e-03 1.18e-02  
## 2637 9.49e-03 -7.33e-03 2.24e-02 4.78e-03 -2.20e-04 -2.12e-03 -5.01e-03  
## 2638 1.00e-02 2.12e-02 2.30e-02 2.78e-02 -2.06e-02 -1.60e-02 -2.73e-02  
## 2639 1.15e-02 1.59e-02 1.50e-02 -1.29e-02 -3.85e-04 -9.24e-03 5.75e-03  
## 2640 -1.50e-03 -2.07e-02 1.39e-02 -1.12e-02 -6.12e-03 9.04e-03 -2.61e-02  
## 2641 8.87e-03 -5.61e-03 -8.14e-04 1.63e-03 2.84e-03 -1.01e-02 -1.60e-03  
## 2642 2.52e-04 1.03e-03 -2.50e-04 1.17e-03 4.65e-04 5.98e-05 -8.74e-05  
## 2643 1.34e-02 -7.78e-03 -1.80e-03 2.01e-03 3.60e-03 -1.07e-02 -2.88e-03  
## 2644 5.36e-03 7.30e-03 -4.09e-03 6.24e-03 1.98e-03 6.53e-03 -1.52e-02  
## 2645 -5.06e-05 9.94e-04 5.17e-04 1.21e-03 -1.66e-03 -1.66e-03 1.13e-03  
## 2646 8.61e-03 -1.50e-02 -1.24e-02 1.02e-02 2.85e-03 3.00e-03 -8.84e-03  
## 2647 9.90e-03 -1.36e-02 1.16e-02 -9.39e-03 -2.04e-03 -9.71e-03 -1.49e-02  
## 2648 -1.03e-02 1.25e-02 -4.80e-03 3.58e-03 4.92e-03 -4.67e-03 -6.84e-03  
## 2649 1.64e-03 4.95e-03 -8.82e-04 -8.65e-05 4.76e-03 -7.82e-04 -1.97e-03  
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## 2651 2.19e-03 1.26e-02 3.40e-03 -1.93e-02 2.79e-02 -7.66e-03 7.56e-03  
## 2652 -3.91e-03 -4.49e-03 -7.38e-04 3.29e-03 1.63e-03 3.62e-03 -3.16e-04  
## 2653 9.41e-03 -1.04e-02 -6.21e-03 8.04e-03 2.40e-03 6.51e-03 -2.12e-02  
## 2654 9.96e-05 -1.45e-03 4.48e-04 -1.17e-03 -1.02e-03 -2.75e-03 3.10e-04  
## 2655 -2.57e-04 1.08e-03 1.64e-04 -1.38e-03 -4.66e-04 5.60e-05 1.55e-03  
## 2656 2.26e-03 8.68e-03 9.60e-04 1.40e-02 -1.92e-02 -2.19e-03 -2.54e-03  
## 2657 7.71e-04 8.11e-04 2.54e-04 -9.15e-04 -3.93e-04 -1.32e-03 -1.67e-03  
## 2658 -7.34e-03 -1.43e-02 9.28e-03 -5.38e-03 -4.08e-03 1.18e-02 -1.39e-02  
## 2659 6.82e-03 -6.36e-03 -7.20e-03 -7.11e-03 8.03e-03 -5.82e-03 -1.22e-03  
## 2660 -1.55e-03 5.38e-03 -3.08e-03 -5.67e-06 -6.68e-03 -1.60e-03 8.57e-04  
## 2661 1.55e-03 1.11e-02 2.22e-02 -1.38e-02 8.92e-03 2.16e-04 1.20e-02  
## 2662 -7.24e-04 -1.77e-03 -4.36e-04 -4.51e-03 4.04e-03 -7.26e-04 8.95e-05  
## 2663 4.84e-04 1.62e-03 7.57e-04 -2.44e-03 -4.54e-04 2.44e-03 -4.86e-04  
## 2664 -3.03e-02 -2.49e-02 -9.17e-03 -3.61e-02 5.36e-02 3.66e-02 6.87e-03  
## 2665 -1.36e-02 1.35e-02 1.30e-02 -1.00e-02 -2.86e-03 -9.77e-03 9.09e-03  
## 2666 -2.20e-03 -6.94e-03 -2.16e-03 -1.53e-03 -8.34e-03 -3.37e-04 1.10e-03  
## 2667 -2.57e-03 6.06e-03 -5.20e-03 7.92e-03 3.13e-04 3.60e-03 -5.17e-04  
## 2668 8.51e-04 1.72e-03 -2.31e-04 1.11e-03 1.02e-03 -7.41e-04 7.36e-05  
## 2669 -1.03e-02 -1.53e-02 1.22e-02 -1.08e-02 -2.29e-03 -3.23e-03 7.86e-03  
## 2670 7.55e-03 -7.81e-03 2.07e-02 4.37e-03 -2.48e-04 -9.53e-03 -2.74e-03  
## 2671 3.68e-04 -6.69e-04 -1.27e-04 3.43e-04 5.49e-04 -3.95e-04 -2.97e-04  
## 2672 4.05e-04 -2.54e-03 -3.09e-04 1.54e-03 1.44e-03 7.71e-04 1.91e-04  
## 2673 1.47e-02 1.34e-02 9.66e-03 -4.96e-03 -2.82e-03 4.07e-03 -1.60e-02  
## 2674 -9.71e-05 1.99e-03 -2.67e-04 1.31e-03 1.29e-03 8.20e-04 8.41e-05  
## 2675 1.02e-02 -1.18e-02 1.24e-02 2.33e-02 -1.46e-02 5.76e-03 4.95e-03  
## 2676 -6.09e-03 -6.77e-03 -1.04e-03 -5.93e-04 6.76e-03 8.15e-04 -1.19e-03  
## 2677 -5.98e-04 4.13e-04 -1.53e-04 -6.21e-04 6.78e-04 4.08e-05 8.63e-04  
## 2678 2.05e-02 -1.75e-02 8.24e-03 -6.29e-03 -6.98e-03 1.25e-02 3.67e-02  
## 2679 4.88e-03 1.30e-02 1.00e-02 -6.09e-03 -3.44e-03 -2.94e-03 6.32e-03  
## 2680 -1.70e-03 4.66e-03 -3.74e-03 6.45e-03 4.24e-04 -3.44e-03 4.45e-04  
## 2681 1.71e-05 1.71e-05 1.49e-05 1.52e-05 -2.38e-05 2.63e-05 -8.24e-06  
## 2682 1.18e-02 -1.24e-02 -2.58e-02 -1.20e-02 5.43e-03 -3.46e-03 7.38e-03  
## 2683 -7.79e-03 1.14e-02 -6.92e-03 8.24e-03 1.65e-03 1.24e-02 1.45e-02  
## 2684 1.67e-03 -1.34e-02 1.38e-02 2.53e-02 -1.65e-02 4.27e-03 7.29e-03  
## 2685 6.59e-04 -2.16e-03 4.66e-03 -1.38e-03 1.67e-03 -3.97e-03 4.17e-04  
## 2686 6.39e-03 -1.14e-02 -2.77e-02 6.36e-03 2.06e-02 1.93e-03 -1.18e-02  
## 2687 2.52e-03 -1.01e-02 -2.50e-03 4.45e-03 5.15e-03 -8.67e-03 -4.87e-03  
## 2688 1.36e-03 -8.40e-03 -3.11e-03 4.72e-03 2.94e-03 3.44e-03 -2.91e-03  
## 2689 2.23e-03 -3.61e-03 6.92e-04 -4.57e-03 -2.34e-03 -1.04e-02 -1.54e-03  
## 2690 7.16e-03 4.10e-03 2.56e-04 -3.84e-03 -4.11e-03 -5.96e-03 -8.02e-04  
## 2691 2.35e-03 1.32e-03 -7.72e-04 -1.63e-03 1.72e-03 6.82e-05 -2.23e-03  
## 2692 4.03e-03 2.16e-03 3.67e-04 -2.34e-03 -1.04e-03 -4.34e-03 -4.30e-03  
## 2693 -7.18e-03 4.97e-03 2.15e-03 5.00e-03 -7.79e-03 3.43e-03 8.02e-03  
## 2694 5.66e-03 5.73e-03 -8.36e-04 1.46e-03 3.21e-03 -7.91e-03 -1.72e-03  
## 2695 3.34e-03 -1.52e-02 3.29e-02 1.69e-02 -5.96e-03 1.18e-02 -7.28e-03  
## 2696 -1.80e-02 -1.01e-02 -5.50e-03 6.32e-03 2.41e-03 9.46e-03 1.57e-02  
## 2697 -1.26e-03 1.70e-03 4.29e-05 3.32e-04 1.61e-03 -4.28e-03 -3.97e-04  
## 2698 -1.23e-02 1.01e-02 -3.18e-03 2.77e-03 4.52e-03 -1.08e-02 -4.33e-03  
## 2699 3.97e-03 1.75e-02 8.62e-03 -5.16e-03 -5.14e-03 1.50e-02 3.47e-02  
## 2700 -1.55e-03 -2.96e-03 -5.04e-04 -5.28e-04 -3.27e-03 1.80e-03 1.97e-04  
## 2701 -2.15e-04 1.99e-03 1.13e-03 2.19e-03 -3.28e-03 -4.10e-03 2.13e-03  
## 2702 1.69e-02 -1.42e-02 1.27e-02 2.97e-02 -1.92e-02 1.48e-03 -1.71e-02  
## 2703 -1.28e-02 -1.25e-02 6.86e-03 -4.48e-03 -2.86e-03 -1.39e-02 -6.56e-03  
## 2704 -6.56e-03 9.00e-03 -2.03e-02 -8.91e-03 3.37e-03 -6.14e-03 7.78e-03  
## 2705 1.03e-02 1.21e-02 2.33e-02 -1.54e-02 9.03e-03 1.16e-02 1.30e-02  
## 2706 2.12e-03 -2.45e-03 -9.02e-04 -4.51e-03 4.11e-03 -1.86e-03 2.26e-04  
## 2707 8.42e-03 1.71e-02 8.31e-03 8.27e-03 2.19e-02 1.07e-02 -2.42e-02  
## 2708 -1.36e-02 9.44e-03 -3.93e-03 3.32e-03 4.32e-03 -8.35e-03 1.54e-02  
## 2709 1.16e-02 7.69e-03 -1.84e-03 1.81e-03 3.82e-03 -1.14e-02 -2.91e-03  
## 2710 -7.54e-03 -6.70e-03 -4.11e-03 8.04e-03 1.17e-03 -5.57e-03 1.23e-03  
## 2711 1.03e-02 5.30e-03 -2.80e-03 4.49e-03 1.73e-03 6.39e-03 -9.29e-03  
## 2712 -9.78e-03 -1.01e-02 -5.61e-03 -1.78e-02 1.30e-02 5.31e-04 -1.70e-03  
## 2713 -6.85e-03 5.46e-03 -9.66e-05 -9.98e-04 5.94e-03 4.31e-03 6.97e-03  
## 2714 5.28e-04 -1.47e-03 4.14e-04 -1.61e-03 -7.50e-04 -1.64e-03 -2.65e-03  
## 2715 3.69e-04 -8.14e-04 2.49e-03 9.27e-05 -1.25e-03 -1.08e-04 -5.95e-05  
## 2716 2.26e-02 -1.90e-02 1.01e-02 -1.02e-02 -6.58e-03 4.70e-03 3.68e-02  
## 2717 1.27e-02 -1.12e-02 -2.39e-02 -8.34e-03 4.17e-03 -2.52e-03 -1.04e-02  
## 2718 8.04e-05 -2.28e-04 -5.73e-05 1.47e-04 1.78e-04 8.80e-05 -7.12e-05  
## 2719 4.46e-03 3.95e-03 -9.59e-04 2.13e-03 1.92e-03 6.25e-05 -7.07e-04  
## 2720 -1.31e-03 -1.97e-03 9.45e-05 3.70e-04 1.98e-03 -4.95e-03 -5.60e-04  
## 2721 -2.07e-02 -1.32e-02 -5.73e-03 3.28e-03 4.11e-03 -2.13e-02 1.93e-02  
## 2722 -2.77e-04 3.90e-04 2.04e-04 7.26e-04 -7.54e-04 -2.34e-04 1.31e-04  
## 2723 -3.18e-03 -9.34e-03 7.86e-03 -4.43e-03 -1.48e-03 -1.25e-03 6.91e-03  
## 2724 4.54e-03 -8.50e-03 -3.73e-03 6.38e-03 4.18e-03 -2.31e-04 1.19e-02  
## 2725 3.00e-03 8.69e-03 8.06e-03 -3.72e-03 -1.20e-03 -1.42e-03 5.47e-03  
## 2726 -1.82e-04 1.02e-02 -7.39e-03 1.07e-02 1.71e-03 -3.85e-03 -1.09e-03  
## 2727 5.30e-03 -5.64e-03 -4.90e-03 7.71e-03 2.64e-04 2.07e-03 -1.82e-03  
## 2728 7.97e-03 -4.88e-03 1.51e-03 6.92e-03 -9.83e-03 -7.06e-03 -9.56e-04  
## 2729 4.24e-03 -1.55e-02 -9.55e-03 -3.20e-02 2.17e-02 -1.07e-02 -8.60e-03  
## 2730 4.54e-03 5.07e-03 -9.72e-04 1.92e-03 2.75e-03 -2.64e-03 -1.24e-03  
## 2731 -2.06e-02 1.19e-02 2.40e-02 1.72e-02 -6.55e-03 6.95e-03 -2.16e-03  
## 2732 -1.07e-02 -1.10e-02 1.74e-02 -9.52e-03 5.46e-03 6.61e-03 -1.05e-03  
## 2733 -3.03e-03 5.96e-03 -4.77e-03 8.43e-03 3.09e-04 -3.07e-03 -1.89e-04  
## 2734 5.26e-04 -1.67e-03 1.36e-04 -3.87e-04 -1.61e-03 -1.11e-03 4.17e-06  
## 2735 -6.15e-03 -6.35e-03 -5.61e-03 -7.01e-03 7.20e-03 -5.28e-03 1.83e-03  
## 2736 2.23e-02 2.22e-02 5.90e-03 -5.10e-03 -8.15e-03 1.60e-02 7.50e-03  
## 2737 4.11e-03 -8.73e-03 -1.83e-02 -6.07e-03 2.72e-03 -3.75e-03 -6.11e-03  
## 2738 4.74e-04 -5.53e-03 7.48e-04 -6.95e-03 -2.90e-03 -2.34e-03 7.64e-03  
## 2739 -5.46e-05 5.51e-04 -3.68e-04 -5.81e-04 7.53e-04 -4.85e-04 9.52e-04  
## 2740 -4.59e-03 -8.69e-03 -5.98e-03 -1.25e-02 1.21e-02 -6.80e-03 1.32e-02  
## 2741 3.56e-03 -7.54e-03 -1.32e-02 1.26e-02 -5.57e-03 1.91e-03 4.97e-03  
## 2742 -6.05e-05 -3.03e-04 6.55e-05 -1.76e-04 -2.25e-04 -1.45e-04 1.16e-04  
## 2743 1.04e-02 6.84e-03 -1.75e-03 2.16e-03 3.36e-03 -6.95e-03 -2.70e-03  
## 2744 3.09e-03 -1.44e-02 9.36e-03 -5.12e-03 -4.38e-03 1.37e-02 -1.68e-02  
## 2745 3.23e-03 7.92e-03 -2.16e-03 -2.90e-03 -9.80e-03 -5.17e-03 -1.48e-02  
## 2746 4.56e-03 5.97e-03 -6.25e-04 1.66e-03 3.76e-03 -1.23e-02 -1.20e-03  
## 2747 -1.25e-02 -1.32e-02 -4.71e-03 -9.68e-03 -1.47e-02 -4.80e-03 1.97e-02  
## 2748 1.29e-03 -2.73e-02 2.62e-03 1.76e-02 3.11e-02 -9.35e-03 -4.89e-02  
## 2749 3.84e-03 8.30e-03 6.63e-03 -3.45e-03 -1.97e-03 -6.68e-03 5.81e-03  
## 2750 -1.03e-03 8.77e-03 -1.97e-03 2.36e-03 3.92e-03 -5.04e-03 1.26e-02  
## 2751 2.11e-03 1.95e-03 -1.16e-03 -3.17e-03 3.03e-03 4.38e-03 -1.35e-04  
## 2752 -2.91e-02 2.61e-02 3.68e-03 -6.32e-03 -1.31e-02 3.48e-02 5.98e-03  
## 2753 -1.83e-03 -1.77e-03 -8.19e-04 2.30e-04 -2.25e-03 -8.60e-05 6.98e-04  
## 2754 5.24e-03 5.56e-03 -9.11e-04 1.65e-03 3.07e-03 -6.08e-03 -1.50e-03  
## 2755 7.96e-03 5.36e-03 -7.94e-04 1.54e-03 2.72e-03 -1.05e-02 -1.59e-03  
## 2756 3.12e-03 3.73e-03 -8.27e-04 2.28e-03 2.04e-03 -1.64e-03 -1.35e-04  
## 2757 1.22e-02 1.62e-02 -3.47e-02 -1.08e-02 5.05e-03 1.47e-02 -1.94e-02  
## 2758 -1.15e-02 1.08e-02 -3.15e-03 7.98e-03 4.67e-03 -6.94e-03 1.42e-02  
## 2759 -3.37e-03 2.69e-03 -1.48e-03 -3.22e-04 -3.78e-03 3.90e-03 5.33e-03  
## 2760 5.91e-03 2.81e-03 -4.53e-05 -1.59e-03 -3.02e-03 2.16e-03 -5.89e-03  
## 2761 -2.81e-02 1.64e-02 -1.26e-02 7.70e-03 3.56e-03 2.25e-03 2.14e-02  
## 2762 4.84e-03 -3.58e-03 -3.38e-03 -3.96e-03 4.48e-03 -2.49e-03 -3.48e-04  
## 2763 1.47e-03 -9.45e-03 -2.84e-03 1.92e-02 -2.30e-02 5.46e-03 -1.29e-03  
## 2764 1.33e-03 -3.89e-03 -1.81e-04 1.55e-03 2.39e-03 -4.50e-03 -1.11e-04  
## 2765 -4.50e-02 2.72e-02 5.77e-03 -1.35e-02 -1.28e-02 2.05e-02 6.09e-03  
## 2766 -4.23e-03 -1.18e-02 7.92e-03 7.71e-03 1.59e-02 -4.24e-03 8.04e-03  
## 2767 1.89e-02 -1.02e-02 -1.41e-03 -7.83e-03 -1.19e-02 2.64e-03 -7.38e-03  
## 2768 -1.19e-03 4.48e-03 -5.12e-04 1.98e-05 4.15e-03 -7.50e-04 5.69e-03  
## 2769 -1.15e-02 8.73e-03 -7.81e-03 -1.76e-02 1.30e-02 -5.30e-04 1.49e-02  
## 2770 -6.97e-03 8.34e-03 -1.21e-03 2.23e-03 3.87e-03 -9.82e-04 -3.20e-03  
## 2771 6.84e-03 -2.84e-02 -6.71e-02 3.19e-02 -2.59e-02 -1.67e-02 4.52e-02  
## 2772 9.71e-03 -1.54e-02 -2.79e-02 2.39e-02 -1.13e-02 3.34e-03 -1.59e-02  
## 2773 5.37e-03 4.96e-03 -9.25e-04 1.87e-03 2.61e-03 -3.97e-03 -1.26e-03  
## 2774 -2.46e-02 -1.51e-02 -9.48e-03 7.10e-03 5.76e-03 -3.83e-03 2.04e-02  
## 2775 7.45e-03 -1.07e-02 9.10e-03 -5.24e-03 -2.33e-03 -2.52e-03 5.91e-03  
## 2776 -3.42e-02 2.80e-02 -3.82e-04 -1.83e-02 -1.75e-02 -1.69e-02 1.39e-02  
## 2777 5.49e-03 1.44e-02 3.41e-02 8.37e-03 -3.11e-03 -9.10e-03 1.48e-02  
## 2778 5.75e-03 3.74e-03 2.27e-04 -1.08e-03 -3.54e-03 -3.60e-03 -6.29e-03  
## 2779 8.94e-03 -1.08e-02 -1.34e-02 -1.63e-02 1.33e-02 4.37e-03 -3.73e-03  
## 2780 -2.49e-02 1.27e-02 1.35e-03 -2.11e-02 3.17e-02 -1.07e-02 -7.99e-03  
## 2781 -2.11e-03 -1.12e-02 -5.03e-03 9.41e-03 5.22e-03 -5.60e-03 -4.28e-03  
## 2782 -2.84e-03 3.18e-03 9.37e-04 5.84e-03 -6.56e-03 6.36e-04 -6.55e-05  
## 2783 1.05e-03 -1.86e-03 1.41e-04 6.31e-05 1.78e-03 -5.37e-03 2.02e-03  
## 2784 -3.47e-03 2.64e-03 -1.02e-03 6.83e-03 -6.48e-03 8.80e-04 1.01e-03  
## 2785 3.37e-03 -1.78e-02 -1.58e-02 1.37e-02 1.88e-03 7.99e-03 -1.06e-02  
## 2786 1.27e-03 2.38e-02 1.26e-02 -2.88e-02 -9.73e-03 2.23e-02 -3.14e-04  
## 2787 3.54e-06 1.14e-03 -3.30e-04 1.40e-03 5.19e-04 -2.09e-04 -1.01e-04  
## 2788 -2.81e-03 -8.85e-03 -3.09e-03 3.85e-03 3.39e-03 -1.48e-04 -3.49e-03  
## 2789 -7.20e-03 1.98e-02 -1.38e-02 7.66e-03 5.17e-03 5.39e-05 -9.18e-03  
## 2790 9.02e-04 -5.32e-03 -1.79e-03 3.46e-03 2.25e-03 4.56e-03 -1.38e-03  
## 2791 1.24e-02 1.08e-02 -2.19e-02 -8.19e-03 4.07e-03 1.60e-03 5.51e-03  
## 2792 1.54e-03 -9.44e-03 -1.11e-02 -1.17e-02 1.09e-02 1.64e-03 -4.93e-04  
## 2793 -4.98e-03 -8.06e-03 7.01e-03 -3.79e-03 -1.26e-03 -5.87e-03 7.24e-03  
## 2794 -2.56e-03 -1.15e-02 9.05e-03 -6.05e-03 -2.03e-03 -8.53e-03 -8.40e-03  
## 2795 -7.43e-04 -1.45e-03 -3.54e-04 -3.23e-03 3.04e-03 -3.30e-03 -2.45e-04  
## 2796 5.60e-03 -4.09e-03 6.94e-05 -3.06e-03 -3.95e-03 2.52e-05 -3.48e-04  
## 2797 1.40e-03 -6.20e-03 -3.26e-03 -9.26e-05 -8.49e-03 -4.55e-03 8.39e-04  
## 2798 -1.28e-02 -1.48e-02 -2.72e-02 1.87e-02 -8.55e-03 -7.42e-03 1.05e-02  
## 2799 3.23e-04 -7.28e-04 -1.21e-04 6.71e-04 4.74e-04 2.17e-04 1.55e-04  
## 2800 4.75e-02 -2.18e-02 1.40e-02 4.51e-02 -3.43e-02 5.89e-02 -4.13e-02  
## 2801 2.26e-03 4.61e-03 1.20e-03 6.31e-03 -8.07e-03 -1.99e-03 -1.80e-03  
## 2802 1.96e-03 2.51e-03 -1.66e-03 -2.80e-03 3.70e-03 -1.00e-03 -4.07e-03  
## 2803 1.13e-03 3.11e-03 1.50e-03 4.82e-03 -6.25e-03 -5.23e-03 -1.27e-04  
## 2804 5.65e-03 1.99e-02 -6.77e-03 -1.68e-02 -2.16e-02 1.37e-02 1.92e-02  
## 2805 -1.15e-02 8.63e-03 2.12e-02 9.98e-03 -2.47e-03 1.06e-02 1.40e-02  
## 2806 1.93e-03 -7.48e-03 1.69e-02 2.70e-03 -1.43e-02 -5.69e-03 -5.84e-04  
## 2807 1.07e-04 5.63e-04 -1.09e-04 2.71e-04 4.20e-04 -1.50e-04 -2.02e-04  
## 2808 7.79e-03 -2.55e-02 2.62e-02 2.92e-02 -3.09e-02 1.11e-02 -6.95e-04  
## 2809 9.41e-04 -1.07e-03 3.12e-04 -1.35e-03 -7.06e-04 -2.99e-03 1.33e-03  
## 2810 8.44e-04 2.23e-03 -1.24e-04 3.18e-04 2.02e-03 -1.57e-03 -4.76e-03  
## 2811 -4.14e-03 -1.36e-02 6.93e-03 -4.38e-03 -4.07e-03 -1.31e-02 -9.68e-03  
## 2812 -5.48e-04 -2.32e-03 -2.27e-03 -2.04e-03 2.97e-03 -4.12e-03 5.29e-04  
## 2813 3.03e-05 3.53e-04 1.09e-04 5.60e-04 -6.24e-04 8.57e-06 -1.40e-04  
## 2814 -2.18e-03 -1.95e-02 8.10e-03 9.66e-03 2.41e-02 -1.28e-02 -2.37e-02  
## 2815 4.58e-03 -8.25e-03 -2.05e-03 2.82e-03 4.28e-03 -3.08e-03 -4.15e-03  
## 2816 4.79e-04 7.61e-04 -2.69e-04 7.92e-04 3.78e-04 1.16e-03 -1.12e-03  
## 2817 9.38e-03 -9.69e-03 -1.74e-02 1.68e-02 -6.95e-03 6.67e-03 5.44e-03  
## 2818 -8.28e-02 2.87e-02 3.75e-03 1.03e-02 3.65e-02 -2.36e-02 6.02e-02  
## 2819 4.75e-04 1.12e-03 -4.25e-04 -1.70e-03 1.84e-03 -4.55e-04 2.68e-04  
## 2820 1.66e-03 -2.00e-03 7.90e-04 2.80e-03 -3.66e-03 -4.91e-03 -8.62e-04  
## 2821 1.52e-02 8.43e-03 -3.61e-03 4.10e-03 3.38e-03 -4.43e-03 -1.57e-02  
## 2822 -1.22e-02 -8.55e-03 -3.62e-03 -1.59e-02 1.26e-02 -1.04e-02 -5.25e-04  
## 2823 -1.09e-03 1.21e-02 -5.17e-03 2.89e-03 5.18e-03 -7.96e-03 -7.18e-03  
## 2824 -2.04e-03 3.41e-03 4.10e-04 9.44e-04 2.81e-03 -9.87e-03 4.81e-04  
## 2825 2.16e-02 -1.22e-02 -2.72e-02 -8.53e-03 3.94e-03 1.71e-03 -1.37e-02  
## 2826 3.98e-03 -2.67e-03 5.54e-04 -3.22e-03 -1.63e-03 -2.30e-03 -7.66e-04  
## 2827 -8.03e-03 9.05e-03 -1.67e-02 1.46e-02 -6.80e-03 -3.80e-03 7.21e-03  
## 2828 6.44e-04 4.34e-03 -2.26e-03 -6.69e-03 6.60e-03 -5.86e-04 -7.20e-03  
## 2829 8.91e-04 2.54e-03 8.18e-04 -3.30e-03 -1.22e-03 -1.55e-03 -5.87e-04  
## 2830 1.32e-04 4.65e-04 2.61e-05 -2.51e-04 -4.54e-04 6.22e-04 9.80e-05  
## 2831 6.33e-05 -1.27e-04 3.29e-04 1.94e-04 -2.31e-05 1.57e-04 -2.15e-04  
## 2832 -7.22e-03 1.10e-02 -1.08e-02 1.24e-02 1.15e-03 6.93e-03 -3.69e-03  
## 2833 -2.99e-02 2.62e-02 3.58e-03 -6.34e-03 -1.32e-02 3.53e-02 6.49e-03  
## 2834 -2.53e-05 -3.89e-05 -1.66e-06 3.01e-05 2.64e-05 2.58e-05 1.20e-05  
## 2835 -5.32e-04 1.52e-03 -2.78e-04 6.39e-04 1.24e-03 1.58e-04 -5.56e-04  
## 2836 2.62e-03 -8.36e-03 -1.48e-03 -6.26e-03 -9.78e-03 8.13e-03 1.14e-02  
## 2837 -2.39e-02 1.10e-02 -5.85e-03 3.25e-03 4.31e-03 -2.01e-02 1.94e-02  
## 2838 8.89e-03 -9.98e-03 -2.44e-03 3.22e-03 3.74e-03 -2.33e-03 1.12e-02  
## 2839 5.61e-04 1.83e-03 -2.55e-04 5.82e-04 1.40e-03 -2.36e-03 -7.69e-04  
## 2840 -9.50e-03 7.00e-03 -1.48e-02 1.29e-02 -6.07e-03 -3.21e-03 7.37e-03  
## 2841 2.08e-02 -1.52e-02 -1.02e-02 7.58e-03 3.10e-03 1.74e-02 1.18e-02  
## 2842 1.36e-02 -1.31e-02 -8.44e-03 -2.86e-02 1.94e-02 -4.68e-03 -7.38e-03  
## 2843 -6.28e-03 -1.31e-02 -1.48e-02 -2.28e-02 1.70e-02 -1.53e-03 -3.11e-03  
## 2844 1.63e-03 5.23e-03 -2.04e-04 -3.25e-03 -5.50e-03 -3.59e-03 -7.57e-04  
## 2845 5.75e-03 -5.51e-03 -9.82e-04 2.07e-03 2.62e-03 -2.25e-03 -1.12e-03  
## 2846 -3.09e-03 1.07e-02 2.02e-02 -1.06e-02 5.61e-03 3.38e-03 -2.92e-03  
## 2847 -2.60e-03 1.70e-03 2.98e-05 -1.02e-05 1.78e-03 3.31e-04 2.64e-03  
## 2848 -4.52e-03 -3.56e-03 1.38e-03 3.73e-03 -5.17e-03 9.32e-04 2.45e-05  
## 2849 -1.25e-02 -8.38e-03 -7.06e-03 1.01e-02 5.06e-04 6.60e-04 1.19e-03  
## 2850 1.44e-02 9.80e-03 -1.22e-03 -5.59e-03 -9.61e-03 -9.78e-03 -1.90e-02  
## 2851 4.94e-04 -1.03e-03 -2.11e-04 5.29e-04 8.41e-04 -5.15e-04 -4.00e-04  
## 2852 -4.37e-03 1.42e-02 -7.65e-03 4.58e-03 4.70e-03 -1.60e-02 -3.04e-02  
## 2853 2.24e-04 7.89e-04 -1.11e-04 2.66e-04 7.68e-04 2.56e-04 -1.25e-04  
## 2854 1.36e-02 -7.11e-03 -3.68e-03 -1.46e-02 1.07e-02 -7.07e-03 -1.94e-03  
## 2855 -2.09e-03 -1.62e-03 -3.73e-03 1.13e-03 -1.47e-03 1.09e-03 2.74e-03  
## 2856 -7.21e-03 1.03e-02 2.06e-02 1.93e-02 -7.64e-03 2.17e-03 -2.54e-03  
## 2857 7.49e-03 1.02e-02 8.12e-03 -3.57e-03 -1.79e-03 -2.51e-03 -1.11e-02  
## 2858 1.73e-02 -1.39e-02 1.34e-02 2.84e-02 -1.81e-02 4.03e-03 -1.68e-02  
## 2859 -1.51e-02 1.03e-02 -3.31e-03 2.65e-03 4.75e-03 -8.82e-03 -4.20e-03  
## 2860 1.89e-02 1.17e-02 -2.71e-03 3.43e-03 4.96e-03 -3.78e-03 -9.09e-03  
## 2861 -9.40e-05 -1.48e-03 -6.00e-04 2.93e-04 -1.79e-03 -2.24e-03 3.59e-04  
## 2862 -1.04e-03 -1.74e-02 -1.47e-02 8.85e-03 3.39e-03 9.64e-03 1.73e-02  
## 2863 1.34e-03 -2.38e-03 -2.79e-04 1.44e-03 1.39e-03 -1.23e-03 1.44e-04  
## 2864 -9.71e-03 1.55e-02 -1.27e-02 1.04e-02 3.76e-03 1.29e-02 1.78e-02  
## 2865 1.57e-03 9.47e-03 7.62e-03 -4.28e-03 -1.90e-03 -7.27e-03 -8.71e-03  
## 2866 -1.09e-02 6.04e-03 -4.98e-03 -7.51e-03 8.44e-03 -5.47e-03 2.19e-03  
## 2867 6.41e-03 -1.16e-02 1.29e-02 2.12e-02 -1.44e-02 -4.60e-06 4.91e-03  
## 2868 4.02e-05 -1.14e-04 9.34e-06 -4.36e-05 -9.38e-05 2.11e-06 -1.44e-04  
## 2869 4.27e-05 -1.33e-02 1.24e-02 -1.02e-02 -1.13e-03 -2.70e-03 7.30e-03  
## 2870 5.10e-04 2.46e-03 9.61e-04 3.11e-03 -4.17e-03 -5.14e-03 -1.07e-03  
## 2871 8.09e-03 -1.32e-02 1.57e-02 2.29e-02 -1.50e-02 -1.95e-03 5.13e-03  
## 2872 4.04e-03 4.26e-03 -7.77e-04 2.19e-03 2.40e-03 -4.25e-03 -4.82e-04  
## 2873 -7.93e-03 2.30e-02 1.80e-02 5.62e-04 3.30e-02 -8.91e-03 3.79e-03  
## 2874 -8.36e-04 1.68e-02 -1.75e-02 -2.84e-02 2.03e-02 2.65e-03 1.91e-02  
## 2875 -7.09e-03 -2.07e-02 -3.47e-02 1.56e-02 -1.00e-02 -5.33e-03 9.39e-03  
## 2876 -1.24e-02 1.87e-02 -1.46e-02 9.36e-03 2.60e-03 -1.44e-03 1.97e-02  
## 2877 4.07e-03 -4.78e-03 -1.91e-03 -8.63e-03 7.51e-03 1.01e-03 -1.28e-03  
## 2878 1.00e-02 -1.52e-02 -7.19e-03 6.98e-03 4.37e-03 2.05e-03 -1.06e-02  
## 2879 7.30e-04 -1.49e-03 8.19e-05 1.35e-04 1.40e-03 -3.86e-03 1.68e-03  
## 2880 -5.06e-03 2.79e-03 -8.11e-03 -1.34e-03 4.75e-03 2.95e-03 4.52e-03  
## 2881 -2.82e-04 2.98e-03 6.77e-03 4.96e-03 -7.88e-04 -4.58e-03 1.51e-04  
## 2882 6.75e-03 -5.28e-03 -3.52e-03 6.65e-03 1.00e-04 3.60e-03 6.89e-03  
## 2883 1.52e-02 -1.76e-02 7.38e-03 -4.42e-03 -6.97e-03 1.58e-02 8.61e-03  
## 2884 1.49e-02 1.22e-02 -3.12e-02 -2.02e-02 3.37e-02 3.23e-03 -1.33e-02  
## 2885 -8.09e-04 1.85e-03 -4.95e-04 -3.79e-04 -2.05e-03 3.16e-03 3.57e-03  
## 2886 4.09e-02 2.36e-02 -5.11e-02 4.40e-04 4.21e-02 -1.22e-02 -3.67e-02  
## 2887 6.55e-03 1.08e-02 8.28e-03 -3.73e-03 -1.99e-03 -1.90e-03 -1.06e-02  
## 2888 5.77e-03 5.97e-03 -8.84e-04 1.44e-03 3.34e-03 -8.60e-03 -1.67e-03  
## 2889 -1.10e-02 -2.50e-02 1.03e-02 -1.50e-02 -1.06e-02 -9.02e-03 4.96e-02  
## 2890 -1.44e-02 3.16e-02 5.23e-03 -2.99e-02 -1.22e-02 -2.98e-02 2.53e-03  
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## 2892 4.16e-03 5.06e-03 -7.93e-04 2.15e-03 2.99e-03 -6.70e-03 -6.75e-04  
## 2893 -1.38e-04 8.36e-04 -1.69e-04 7.67e-04 5.28e-04 -1.77e-05 -1.00e-03  
## 2894 1.18e-02 -8.89e-03 -1.06e-03 4.11e-03 6.63e-03 -1.08e-02 1.13e-02  
## 2895 2.14e-03 -3.73e-03 8.18e-04 -4.82e-03 -2.11e-03 -4.46e-03 -7.25e-03  
## 2896 1.09e-02 1.23e-02 -2.94e-02 8.26e-03 2.18e-02 7.27e-03 -1.33e-02  
## 2897 -2.58e-03 -2.21e-03 -9.95e-04 3.27e-04 -2.51e-03 -1.95e-03 1.10e-03  
## 2898 -1.11e-02 -1.71e-02 4.08e-02 1.23e-02 -4.51e-03 1.04e-04 1.81e-02  
## 2899 -3.87e-03 7.81e-03 -1.03e-03 -8.10e-03 -9.02e-03 -4.27e-03 1.32e-02  
## 2900 4.75e-02 -1.64e-02 1.26e-02 -1.08e-02 -4.05e-03 -1.46e-02 -2.74e-02  
## 2901 -1.29e-02 -1.04e-02 -6.15e-03 -1.87e-02 1.44e-02 -2.14e-03 1.52e-02  
## 2902 5.07e-03 -1.02e-02 2.35e-04 -9.89e-03 -1.10e-02 -4.47e-03 -4.05e-03  
## 2903 6.05e-03 -1.29e-02 1.36e-02 2.36e-02 -1.62e-02 -7.85e-03 -1.30e-02  
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## 2905 -1.35e-03 -1.52e-03 -2.43e-04 1.16e-03 6.73e-04 1.24e-03 8.82e-05  
## 2906 2.57e-03 -2.47e-03 -2.53e-05 -1.16e-03 -2.26e-03 -2.21e-03 -3.33e-03  
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## 2908 8.23e-03 1.72e-02 2.80e-02 -2.14e-02 9.83e-03 5.33e-03 -1.22e-02  
## 2909 1.72e-05 3.35e-04 -6.28e-05 3.46e-04 1.87e-04 1.05e-04 5.41e-04  
## 2910 -2.57e-03 9.49e-03 -4.24e-03 7.67e-03 3.54e-03 -1.15e-03 -3.31e-03  
## 2911 -2.60e-03 2.16e-03 2.67e-04 -1.84e-04 2.38e-03 -1.15e-03 -4.08e-03  
## 2912 1.58e-03 5.68e-03 -3.06e-03 5.22e-03 1.26e-03 1.16e-02 8.67e-03  
## 2913 -8.68e-04 -2.20e-03 8.02e-05 1.92e-04 1.98e-03 -4.93e-03 -8.83e-04  
## 2914 8.37e-03 1.54e-02 3.11e-02 -2.70e-02 1.24e-02 -1.37e-02 1.44e-02  
## 2915 -9.90e-03 5.78e-03 -4.23e-03 -8.28e-03 9.32e-03 -6.64e-04 1.11e-02  
## 2916 -2.32e-03 5.70e-03 1.70e-03 5.93e-03 -8.67e-03 -2.13e-03 -8.10e-04  
## 2917 9.01e-04 -9.11e-03 8.08e-03 -4.65e-03 -1.49e-03 -5.11e-03 6.39e-03  
## 2918 -8.57e-03 1.62e-02 1.59e-02 2.79e-02 -2.12e-02 -1.36e-02 -1.66e-02  
## 2919 -7.65e-03 6.47e-03 -4.81e-03 7.82e-03 1.38e-03 1.16e-02 1.02e-02  
## 2920 1.35e-02 -1.56e-02 1.16e-02 -6.54e-03 -4.09e-03 -3.31e-03 -1.69e-02  
## 2921 -6.50e-03 -7.94e-03 -2.03e-03 -1.69e-03 -9.42e-03 2.25e-03 1.24e-02  
## 2922 3.61e-04 -1.00e-03 -8.23e-04 -1.00e-03 1.35e-03 -1.76e-03 2.50e-04  
## 2923 -2.76e-02 1.87e-02 -1.33e-02 5.53e-03 4.80e-03 -4.38e-03 2.15e-02  
## 2924 4.05e-03 -3.26e-03 3.87e-04 -5.32e-05 3.63e-03 3.37e-03 -6.98e-03  
## 2925 -1.78e-03 1.69e-03 4.25e-04 3.26e-03 -3.54e-03 1.95e-03 3.32e-03  
## 2926 -2.05e-04 1.85e-03 1.97e-04 -1.08e-03 -1.52e-03 -1.22e-03 -2.38e-03  
## 2927 2.39e-02 -1.69e-02 4.04e-02 4.07e-02 -5.24e-02 4.45e-03 -1.29e-02  
## 2928 -5.72e-03 8.73e-03 1.75e-02 -7.93e-03 6.71e-03 -1.23e-02 5.48e-04  
## 2929 -8.19e-04 -1.13e-03 1.61e-04 2.93e-05 1.06e-03 -1.95e-03 1.38e-03  
## 2930 7.91e-03 -3.71e-03 1.64e-04 -3.11e-03 -3.82e-03 -4.51e-03 -6.50e-04  
## 2931 -5.37e-03 -4.53e-03 1.85e-03 4.50e-03 -6.55e-03 9.78e-04 -2.51e-04  
## 2932 9.33e-03 1.44e-02 -1.47e-02 1.44e-02 1.09e-03 1.30e-02 -1.09e-02  
## 2933 -1.71e-03 -6.87e-03 -4.56e-03 2.72e-04 -9.33e-03 -8.29e-04 -5.08e-05  
## 2934 -6.36e-03 6.85e-03 -6.25e-03 -8.66e-03 8.26e-03 -2.53e-03 1.66e-03  
## 2935 -1.52e-03 -1.62e-02 -3.73e-02 -1.13e-02 4.36e-03 -1.27e-02 -1.24e-02  
## 2936 -7.68e-03 -1.96e-02 -4.33e-02 -2.81e-02 7.94e-03 -3.84e-02 -2.36e-02  
## 2937 -9.79e-04 1.44e-03 -1.33e-03 -1.32e-03 1.97e-03 -1.78e-03 3.24e-04  
## 2938 6.02e-04 -7.51e-04 5.72e-05 -6.77e-04 -5.51e-04 -7.25e-04 -2.53e-04  
## 2939 -6.36e-05 3.09e-03 -7.89e-04 2.60e-03 1.99e-03 7.65e-04 -4.43e-03  
## 2940 1.50e-02 1.08e-02 -3.69e-03 4.22e-03 4.40e-03 -4.42e-03 1.19e-02  
## 2941 -1.98e-02 1.46e-02 -7.85e-03 6.09e-03 5.01e-03 4.78e-03 1.87e-02  
## 2942 -6.46e-03 -1.01e-02 -5.37e-03 -2.71e-03 -1.38e-02 8.01e-03 1.19e-03  
## 2943 2.15e-03 8.79e-03 -6.07e-03 -2.19e-03 -1.30e-02 5.08e-03 1.24e-02  
## 2944 -8.05e-04 -1.43e-02 -2.46e-02 1.64e-02 -7.72e-03 -1.41e-03 8.50e-03  
## 2945 -2.17e-04 6.08e-04 1.17e-04 -6.34e-04 -2.18e-04 -8.36e-04 1.54e-05  
## 2946 1.20e-02 7.29e-03 -1.84e-03 2.12e-03 3.46e-03 -9.93e-03 -2.70e-03  
## 2947 3.66e-03 7.10e-03 -2.32e-03 -1.30e-02 1.07e-02 -7.48e-04 -2.42e-03  
## 2948 1.06e-02 -4.56e-03 -5.12e-04 -3.06e-03 -4.99e-03 7.11e-04 -7.96e-04  
## 2949 -2.78e-02 1.26e-02 1.00e-02 6.80e-03 1.90e-02 -8.88e-04 1.00e-02  
## 2950 2.28e-02 1.36e-02 9.82e-03 -5.58e-03 -2.95e-03 -2.63e-03 3.78e-03  
## 2951 -2.12e-04 -9.12e-03 7.85e-03 -4.37e-03 -1.62e-03 -4.61e-03 7.19e-03  
## 2952 2.29e-03 1.03e-02 -1.00e-02 1.18e-02 6.05e-04 1.03e-02 1.15e-02  
## 2953 -8.31e-03 -1.95e-02 -1.72e-02 7.74e-03 4.69e-03 3.45e-03 -1.10e-02  
## 2954 8.85e-03 -5.55e-03 -7.92e-04 1.61e-03 2.81e-03 -1.01e-02 -1.64e-03  
## 2955 1.02e-02 1.12e-02 -3.43e-03 -6.08e-03 -1.24e-02 6.50e-03 -3.53e-03  
## 2956 -5.81e-03 -1.41e-02 1.14e-02 -9.66e-03 -2.52e-03 -1.13e-02 8.07e-03  
## 2957 4.25e-03 8.63e-03 -2.28e-03 2.85e-03 3.64e-03 2.09e-03 -5.16e-03  
## 2958 6.52e-03 2.15e-02 3.21e-03 2.16e-02 2.38e-02 2.78e-02 -3.20e-02  
## 2959 7.18e-03 -3.99e-03 -5.62e-04 -1.98e-03 -4.16e-03 -8.51e-04 -6.14e-03  
## 2960 2.71e-03 6.39e-03 -2.57e-03 -1.10e-02 9.48e-03 -2.65e-03 -1.10e-02  
## 2961 3.85e-02 -2.03e-02 2.04e-02 -2.48e-02 -8.14e-04 -1.55e-02 1.83e-04  
## 2962 -6.38e-03 -1.87e-02 3.95e-02 1.41e-02 -5.55e-03 -7.84e-03 2.13e-02  
## 2963 -8.98e-05 2.05e-03 -1.32e-03 -2.24e-03 2.87e-03 -1.94e-03 1.07e-04  
## 2964 -1.32e-03 1.87e-02 -1.28e-02 7.21e-03 4.83e-03 1.34e-02 1.48e-02  
## 2965 -2.44e-04 -4.79e-04 -8.11e-05 4.37e-05 -5.54e-04 -6.11e-04 1.60e-04  
## 2966 2.19e-02 -1.12e-02 -2.54e-02 -7.20e-03 3.45e-03 1.67e-05 -1.26e-02  
## 2967 -3.79e-03 2.50e-03 -2.06e-04 6.08e-05 2.57e-03 9.39e-04 3.97e-03  
## 2968 -9.93e-04 -1.42e-03 1.93e-04 -6.64e-05 1.47e-03 -1.38e-03 -2.63e-03  
## 2969 -1.44e-02 2.61e-02 1.74e-02 5.15e-04 3.65e-02 -1.36e-02 -3.25e-02  
## 2970 -1.24e-02 -1.92e-02 1.56e-02 -1.39e-02 -2.99e-03 -7.77e-03 9.41e-03  
## 2971 -1.85e-03 1.08e-02 -2.10e-03 2.74e-03 4.38e-03 1.07e-03 -5.97e-03  
## 2972 1.46e-02 6.45e-03 3.05e-04 1.09e-02 -1.40e-02 -2.47e-03 -1.24e-02  
## 2973 1.16e-02 7.46e-03 -1.72e-03 1.75e-03 3.74e-03 -1.13e-02 -3.13e-03  
## 2974 1.30e-03 1.22e-02 -7.66e-03 7.28e-03 2.49e-03 1.09e-02 1.34e-02  
## 2975 -2.51e-03 2.50e-03 7.28e-03 3.63e-03 -5.84e-04 4.31e-03 -5.24e-04  
## 2976 6.18e-04 1.87e-03 5.68e-04 -2.41e-03 -1.05e-03 -4.63e-03 2.02e-03  
## 2977 2.02e-03 -3.09e-03 5.58e-04 -3.72e-03 -2.01e-03 -7.22e-03 -1.43e-03  
## 2978 9.05e-04 8.40e-04 -8.67e-05 -2.84e-04 -8.56e-04 1.43e-03 1.43e-04  
## 2979 -5.61e-03 -5.41e-03 -2.64e-04 -7.06e-04 5.67e-03 2.67e-03 7.88e-03  
## 2980 3.46e-03 -4.63e-03 -2.24e-03 -8.11e-03 7.44e-03 -1.86e-03 -6.84e-03  
## 2981 7.77e-03 -8.57e-03 -4.12e-03 8.81e-03 4.10e-03 -2.49e-03 -3.89e-03  
## 2982 -1.77e-02 -6.56e-03 -2.32e-03 -1.15e-03 -7.23e-03 -2.56e-03 1.29e-02  
## 2983 -2.24e-06 -1.38e-05 2.98e-06 -7.70e-06 -1.02e-05 -3.65e-06 4.84e-06  
## 2984 -1.19e-03 2.69e-03 -2.65e-03 -2.41e-03 3.53e-03 -3.91e-03 5.12e-04  
## 2985 1.16e-02 6.43e-03 1.73e-03 9.14e-03 -1.39e-02 -9.85e-03 -2.59e-03  
## 2986 1.70e-02 -1.59e-02 1.10e-02 -6.32e-03 -4.37e-03 1.08e-02 -2.24e-02  
## 2987 -5.06e-03 -1.24e-02 2.48e-02 -1.51e-02 8.06e-03 8.91e-03 1.43e-02  
## 2988 -7.19e-03 8.23e-03 -2.98e-03 2.70e-03 3.64e-03 -2.87e-03 1.25e-02  
## 2989 2.54e-03 3.95e-03 9.24e-04 -4.23e-03 -3.36e-03 -9.69e-03 4.04e-05  
## 2990 4.85e-04 -5.65e-04 2.84e-04 7.23e-04 -8.80e-04 -6.00e-04 -1.10e-03  
## 2991 -1.64e-02 -1.25e-02 -5.80e-03 3.57e-03 3.81e-03 -2.62e-02 1.93e-02  
## 2992 1.01e-02 -1.07e-02 -5.14e-03 6.35e-03 3.14e-03 2.92e-03 -2.23e-02  
## 2993 2.03e-02 -2.03e-02 -3.47e-02 1.75e-02 -1.19e-02 -1.30e-02 1.92e-03  
## 2994 -1.35e-02 1.87e-02 -1.32e-02 5.52e-03 5.41e-03 -1.32e-04 1.84e-02  
## 2995 4.70e-03 3.66e-03 6.33e-05 -3.19e-03 -3.88e-03 -2.80e-04 -3.88e-04  
## 2996 8.18e-03 -1.15e-02 9.83e-03 -6.13e-03 -2.42e-03 -2.32e-03 6.40e-03  
## 2997 4.74e-03 5.26e-03 -9.66e-04 1.84e-03 2.87e-03 -3.76e-03 -1.29e-03  
## 2998 4.42e-03 5.33e-03 -2.98e-04 3.75e-03 2.67e-03 2.68e-03 -2.20e-03  
## 2999 1.35e-02 -1.76e-02 4.50e-03 -3.29e-02 4.47e-02 -1.13e-02 4.20e-03  
## 3000 5.84e-03 -1.12e-02 4.77e-03 1.09e-02 1.37e-02 -6.52e-03 -1.07e-02  
## 3001 1.03e-02 -7.74e-03 1.93e-02 6.30e-03 -9.44e-04 3.58e-03 -2.75e-03  
## 3002 1.75e-02 -1.14e-02 -2.37e-02 -9.57e-03 4.41e-03 6.70e-04 5.37e-03  
## 3003 1.92e-02 1.76e-02 -3.57e-02 -1.75e-02 6.43e-03 -1.35e-02 -2.06e-02  
## 3004 1.39e-03 -4.09e-03 -1.88e-04 1.58e-03 2.52e-03 -4.93e-03 -9.71e-05  
## 3005 1.77e-02 9.64e-03 -3.41e-03 2.78e-03 4.34e-03 -1.47e-02 -1.93e-02  
## 3006 -1.55e-02 1.25e-02 3.36e-02 3.03e-02 -3.92e-02 9.25e-03 -2.39e-03  
## 3007 1.12e-04 -2.03e-03 6.55e-04 -1.76e-03 -1.43e-03 -4.80e-03 4.78e-04  
## 3008 -2.48e-04 -1.64e-03 -5.89e-05 3.67e-04 1.50e-03 3.67e-04 2.07e-03  
## 3009 9.41e-04 -1.23e-02 -6.76e-03 9.93e-03 3.80e-03 -4.32e-03 -2.33e-02  
## 3010 -7.87e-03 1.42e-02 2.58e-02 -1.67e-02 8.66e-03 3.68e-03 -6.51e-03  
## 3011 -2.86e-03 -2.38e-03 -2.32e-04 2.75e-04 2.35e-03 3.42e-04 -2.69e-05  
## 3012 -3.16e-03 1.78e-02 8.01e-03 -5.73e-03 -4.87e-03 9.61e-03 1.03e-02  
## 3013 4.56e-03 -4.53e-03 7.44e-04 -3.85e-03 -4.36e-03 -1.02e-03 -8.00e-04  
## 3014 -8.83e-05 1.30e-04 3.47e-04 2.02e-04 8.35e-06 2.71e-04 -1.68e-04  
## 3015 -1.56e-02 2.77e-02 -4.55e-04 2.10e-02 2.94e-02 -1.09e-02 6.79e-03  
## 3016 -3.24e-03 2.58e-03 7.79e-04 4.81e-03 -5.48e-03 5.73e-04 5.08e-03  
## 3017 5.27e-03 5.49e-03 -8.83e-04 1.62e-03 3.05e-03 -6.05e-03 -1.55e-03  
## 3018 7.27e-03 -6.28e-03 -8.48e-04 1.59e-03 3.15e-03 -7.99e-03 -1.66e-03  
## 3019 -5.63e-03 -5.33e-03 -2.35e-04 -7.54e-04 5.56e-03 1.33e-03 7.83e-03  
## 3020 4.87e-03 4.38e-03 1.43e-03 6.89e-03 -9.58e-03 -3.08e-03 -9.12e-04  
## 3021 6.81e-04 -1.32e-03 7.41e-05 1.37e-04 1.24e-03 -3.29e-03 1.46e-03  
## 3022 3.47e-03 1.18e-02 1.33e-02 2.16e-02 -1.47e-02 -3.76e-04 5.29e-03  
## 3023 1.22e-02 -7.49e-03 -1.97e-03 2.50e-03 3.34e-03 -5.95e-03 -2.36e-03  
## 3024 -2.99e-02 -2.38e-02 7.16e-03 -6.53e-03 -1.01e-02 9.90e-03 -2.42e-02  
## 3025 1.39e-02 -2.18e-02 5.12e-03 1.47e-02 2.52e-02 2.32e-02 3.90e-02  
## 3026 9.55e-03 -1.12e-02 7.81e-03 -3.63e-03 -3.28e-03 -1.67e-03 -1.06e-02  
## 3027 3.67e-02 2.05e-02 -3.38e-02 2.19e-02 -1.09e-02 -1.97e-02 -3.03e-02  
## 3028 -4.15e-04 1.30e-03 6.48e-05 6.71e-04 9.88e-04 -2.44e-03 2.26e-04  
## 3029 5.46e-04 -3.17e-03 -3.32e-03 -3.00e-03 4.28e-03 -6.25e-03 7.06e-04  
## 3030 1.17e-02 -1.09e-02 7.94e-03 -4.17e-03 -3.31e-03 -1.72e-03 6.27e-03  
## 3031 -2.40e-02 -1.70e-02 3.09e-02 -2.44e-02 1.09e-02 8.50e-04 2.12e-02  
## 3032 9.99e-05 1.08e-03 -4.55e-04 1.34e-03 3.88e-04 2.04e-03 1.88e-03  
## 3033 3.86e-04 1.49e-03 -2.31e-04 1.05e-03 8.92e-04 2.37e-04 1.22e-04  
## 3034 -1.45e-03 -7.58e-03 1.37e-02 -5.59e-03 5.07e-03 -5.86e-03 1.09e-04  
## 3035 1.90e-04 5.04e-04 1.12e-03 -3.83e-04 4.75e-04 3.00e-04 8.29e-04  
## 3036 9.72e-03 -2.90e-02 2.63e-02 2.84e-02 -3.71e-02 4.26e-02 -4.02e-03  
## 3037 3.12e-03 1.09e-02 6.96e-04 1.57e-02 -2.44e-02 -9.12e-03 -6.21e-03  
## 3038 3.39e-02 -2.40e-02 1.76e-02 -2.20e-02 -7.14e-03 -3.71e-02 -4.37e-02  
## 3039 1.14e-02 1.76e-02 -3.82e-02 -1.00e-02 4.75e-03 2.77e-02 -2.06e-02  
## 3040 1.10e-02 1.98e-02 7.31e-03 -4.65e-03 -6.41e-03 1.54e-02 7.97e-03  
## 3041 2.14e-03 -5.45e-03 -4.05e-03 -7.49e-03 7.14e-03 3.38e-03 -1.21e-03  
## 3042 2.41e-03 -6.81e-03 -6.57e-03 -7.35e-03 7.39e-03 -6.05e-03 -5.30e-04  
## 3043 5.59e-03 1.89e-02 2.02e-02 3.15e-02 -2.36e-02 -7.34e-03 -2.51e-02  
## 3044 -1.01e-02 -1.17e-02 -3.28e-03 3.11e-03 4.25e-03 -9.95e-03 -3.93e-03  
## 3045 -3.59e-02 2.64e-02 3.83e-03 -7.67e-03 -1.32e-02 3.71e-02 7.21e-03  
## 3046 -1.66e-03 1.28e-02 8.14e-03 -4.94e-03 -2.46e-03 -5.92e-03 -1.36e-02  
## 3047 -7.91e-03 5.38e-03 -2.38e-04 -8.81e-04 5.77e-03 2.94e-03 7.76e-03  
## 3048 9.49e-04 7.86e-03 -6.39e-03 -1.30e-02 1.09e-02 6.68e-03 -1.45e-02  
## 3049 -2.35e-03 3.98e-03 -1.63e-03 3.85e-04 -5.47e-03 -5.56e-03 8.94e-04  
## 3050 1.67e-05 -4.90e-03 -1.51e-03 1.18e-02 -1.18e-02 -3.36e-03 9.05e-04  
## 3051 4.69e-02 -1.95e-02 9.25e-03 -4.75e-02 5.47e-02 -1.95e-02 -3.29e-03  
## 3052 7.04e-05 1.14e-03 9.00e-05 -2.81e-04 -1.07e-03 -4.40e-04 -1.56e-03  
## 3053 1.11e-03 1.67e-03 2.15e-04 -1.22e-03 -1.52e-03 -6.16e-04 1.39e-04  
## 3054 8.93e-03 2.32e-02 -5.67e-04 -3.64e-02 4.67e-02 1.12e-02 3.88e-02  
## 3055 7.10e-05 -1.58e-04 -1.64e-05 -1.89e-05 -1.42e-04 3.04e-04 -1.87e-04  
## 3056 -6.68e-03 1.03e-02 -8.22e-03 -1.86e-02 1.56e-02 -9.51e-03 1.56e-02  
## 3057 -8.66e-03 -1.16e-02 -2.15e-02 -1.19e-02 4.78e-03 -7.15e-03 9.97e-03  
## 3058 -8.78e-03 8.65e-03 2.17e-02 -1.53e-02 7.95e-03 2.31e-03 1.36e-02  
## 3059 4.20e-03 -1.71e-02 -1.63e-02 1.60e-02 -8.69e-05 9.36e-03 -8.74e-03  
## 3060 -2.25e-02 -1.60e-02 -1.16e-02 8.84e-03 2.52e-03 5.29e-03 1.98e-02  
## 3061 -1.12e-02 1.23e-02 -5.26e-03 3.10e-03 4.82e-03 -1.08e-02 -5.60e-03  
## 3062 -2.49e-02 -2.02e-02 -1.69e-02 9.24e-03 3.19e-03 2.68e-03 -6.77e-03  
## 3063 2.41e-03 -1.34e-02 1.02e-02 -5.02e-03 -3.00e-03 -4.81e-03 -1.12e-02  
## 3064 -2.76e-03 9.14e-03 -9.33e-03 -1.09e-02 1.08e-02 -4.28e-03 5.24e-04  
## 3065 1.18e-02 -7.28e-03 -1.96e-03 2.61e-03 3.21e-03 -4.61e-03 -2.26e-03  
## 3066 1.08e-02 -8.65e-03 -2.91e-03 3.25e-03 3.89e-03 -4.67e-03 1.21e-02  
## 3067 2.51e-03 1.59e-03 5.00e-05 -3.76e-04 -1.51e-03 -6.15e-04 -2.76e-03  
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## 3069 1.72e-03 -3.80e-03 -1.91e-03 4.61e-03 1.91e-03 6.93e-05 6.37e-03  
## 3070 1.00e-02 -5.93e-03 -2.00e-03 -2.83e-03 -7.28e-03 2.02e-03 -1.16e-02  
## 3071 -7.42e-04 6.10e-03 -7.73e-03 -5.72e-03 6.81e-03 -6.11e-03 2.46e-04  
## 3072 -1.04e-02 2.27e-02 6.02e-03 -8.39e-03 -1.14e-02 6.95e-03 9.84e-03  
## 3073 1.58e-04 -1.23e-04 4.35e-05 1.82e-04 -2.09e-04 1.10e-05 -1.73e-05  
## 3074 3.90e-03 7.40e-03 -1.56e-02 -5.32e-03 2.44e-03 5.88e-06 5.37e-03  
## 3075 -3.33e-02 1.60e-02 8.30e-03 -7.11e-03 -6.08e-03 5.95e-03 1.65e-02  
## 3076 -2.58e-02 1.10e-02 -5.72e-03 2.87e-03 4.56e-03 -1.91e-02 1.92e-02  
## 3077 1.87e-02 -1.34e-02 8.19e-03 -5.00e-03 -4.67e-03 -3.46e-03 -1.38e-02  
## 3078 -2.07e-04 3.00e-04 -6.11e-05 3.02e-04 1.35e-04 2.57e-04 -4.41e-04  
## 3079 -3.62e-04 -4.20e-04 6.12e-05 7.34e-05 4.37e-04 -8.81e-04 5.96e-04  
## 3080 3.83e-03 5.63e-03 -7.81e-04 2.02e-03 3.48e-03 -8.40e-03 -8.29e-04  
## 3081 -1.58e-02 -1.00e-02 8.38e-03 -4.73e-03 -1.76e-03 -5.08e-03 9.74e-03  
## 3082 1.39e-02 1.81e-02 -1.32e-02 1.09e-02 1.31e-03 7.04e-03 -1.10e-02  
## 3083 5.48e-03 9.94e-03 8.70e-03 -4.99e-03 -1.90e-03 -1.82e-03 4.75e-03  
## 3084 -1.83e-05 -4.02e-04 -1.12e-04 1.34e-04 3.88e-04 1.36e-05 -1.92e-05  
## 3085 -5.25e-03 3.97e-03 5.31e-04 -5.36e-03 -1.90e-03 -1.03e-03 6.60e-04  
## 3086 2.39e-03 -1.65e-02 6.54e-03 -4.63e-03 -7.23e-03 8.64e-03 1.22e-02  
## 3087 4.81e-03 -3.81e-03 -1.13e-03 -8.20e-03 6.74e-03 -1.08e-02 5.18e-06  
## 3088 2.37e-02 1.90e-02 9.87e-03 -4.16e-03 -5.21e-03 2.98e-02 -2.65e-02  
## 3089 1.87e-05 3.91e-03 1.10e-03 6.91e-03 -8.31e-03 -9.96e-05 -7.55e-04  
## 3090 -6.61e-04 -6.65e-03 -2.71e-03 5.53e-03 2.85e-03 2.37e-03 -1.88e-03  
## 3091 -1.54e-02 1.67e-02 -1.21e-02 8.69e-03 3.28e-03 1.21e-02 1.71e-02  
## 3092 -1.10e-04 -1.82e-03 -1.30e-03 -1.98e-03 2.55e-03 1.46e-03 3.45e-03  
## 3093 5.83e-03 4.97e-03 1.78e-03 7.30e-03 -1.07e-02 -6.76e-03 -1.20e-03  
## 3094 1.05e-02 -1.66e-02 -3.15e-02 2.41e-02 -1.19e-02 -1.11e-02 -1.83e-02  
## 3095 9.89e-04 -3.58e-03 -2.56e-04 1.65e-03 2.15e-03 -2.51e-03 4.14e-05  
## 3096 6.09e-03 -1.08e-02 -1.34e-02 -1.28e-02 1.15e-02 4.67e-03 -3.15e-03  
## 3097 -5.55e-03 -8.34e-03 -7.69e-03 1.00e-02 3.22e-04 7.22e-03 4.76e-04  
## 3098 -1.23e-02 2.45e-02 6.77e-04 -7.27e-03 -1.20e-02 5.06e-03 1.07e-02  
## 3099 -4.10e-02 2.27e-02 -6.10e-02 -1.28e-02 1.88e-03 4.11e-02 1.16e-02  
## 3100 -2.86e-02 2.06e-02 4.27e-02 1.56e-02 -7.40e-03 -4.88e-03 -1.13e-02  
## 3101 -2.36e-03 5.15e-03 -1.17e-03 3.08e-03 1.89e-03 2.33e-03 -1.33e-03  
## 3102 5.28e-04 1.45e-03 1.25e-04 -1.38e-03 -9.61e-04 -1.50e-03 -4.89e-04  
## 3103 -1.51e-04 1.74e-04 1.48e-04 1.66e-04 -2.40e-04 3.39e-04 -2.83e-05  
## 3104 5.82e-03 -6.60e-03 -1.63e-04 1.46e-02 -1.57e-02 1.28e-03 9.87e-03  
## 3105 3.03e-04 1.09e-03 -3.69e-04 1.17e-03 6.00e-04 1.01e-03 -1.35e-03  
## 3106 7.45e-03 -6.16e-03 -7.53e-04 1.48e-03 3.13e-03 -8.53e-03 -1.87e-03  
## 3107 2.61e-02 -2.55e-02 1.66e-02 -5.49e-03 3.61e-02 3.15e-02 -5.07e-03  
## 3108 8.25e-05 -1.32e-04 1.03e-04 1.23e-04 -1.64e-04 1.83e-04 -5.94e-05  
## 3109 -5.89e-03 1.70e-02 -2.12e-02 -2.60e-02 1.92e-02 5.18e-03 -6.27e-03  
## 3110 1.89e-02 1.19e-02 -2.44e-03 4.77e-03 4.29e-03 2.03e-03 -1.01e-02  
## 3111 -4.54e-03 1.36e-02 1.24e-02 -7.99e-03 -2.34e-03 -5.43e-03 9.15e-03  
## 3112 -1.22e-02 -9.96e-03 2.13e-02 1.26e-02 -3.24e-03 -9.72e-06 1.30e-02  
## 3113 3.02e-03 -5.67e-03 1.26e-02 2.18e-03 -1.05e-02 -2.63e-03 -9.01e-04  
## 3114 9.58e-05 4.46e-04 -8.99e-05 3.86e-04 2.61e-04 6.00e-04 4.13e-05  
## 3115 7.89e-03 1.33e-02 -2.28e-02 1.69e-02 -8.14e-03 -1.47e-03 4.55e-03  
## 3116 5.60e-05 -9.76e-05 -6.31e-05 -1.15e-04 1.59e-04 1.99e-04 -1.21e-04  
## 3117 1.27e-03 2.27e-02 -5.89e-02 -1.60e-02 3.02e-03 -5.25e-03 1.19e-02  
## 3118 -3.69e-04 -7.49e-04 -2.19e-03 -1.44e-04 1.18e-03 -2.35e-03 -1.27e-04  
## 3119 -2.45e-02 1.57e-02 -1.21e-02 8.27e-03 3.04e-03 -6.79e-04 2.07e-02  
## 3120 -8.41e-04 -5.54e-03 -7.95e-04 -1.90e-05 5.33e-03 1.98e-03 -2.26e-03  
## 3121 5.49e-03 5.38e-03 -7.86e-04 1.51e-03 3.02e-03 -6.52e-03 -1.77e-03  
## 3122 3.54e-03 -4.02e-03 -2.96e-04 -2.93e-03 -4.44e-03 8.04e-04 6.50e-03  
## 3123 1.58e-02 2.21e-02 1.50e-02 -1.31e-02 -5.63e-03 -1.06e-02 -3.29e-02  
## 3124 6.46e-03 4.38e-03 1.41e-03 6.56e-03 -9.24e-03 -6.38e-03 -9.60e-04  
## 3125 -3.28e-03 5.52e-03 -6.76e-03 -5.54e-03 6.66e-03 -3.08e-03 5.96e-04  
## 3126 5.50e-03 5.84e-03 -1.50e-03 -9.48e-03 8.70e-03 -1.39e-03 -1.98e-03  
## 3127 -2.92e-03 4.06e-03 -1.04e-02 2.95e-03 -3.95e-03 1.20e-03 6.41e-03  
## 3128 -1.66e-02 1.72e-02 -8.80e-03 3.79e-03 5.04e-03 5.46e-03 1.86e-02  
## 3129 3.40e-04 2.03e-03 -1.77e-03 -2.39e-03 2.62e-03 3.25e-03 3.67e-03  
## 3130 3.00e-03 -1.58e-03 -8.74e-05 -8.20e-04 -1.68e-03 1.37e-03 -1.07e-04  
## 3131 -1.59e-03 1.57e-02 -3.24e-02 -1.83e-02 7.64e-03 -1.15e-02 8.29e-03  
## 3132 2.26e-02 1.59e-02 1.16e-02 -8.04e-03 -2.68e-03 -5.19e-03 -2.01e-02  
## 3133 1.62e-02 -9.55e-03 -4.73e-03 -2.46e-03 -1.34e-02 -5.20e-03 -3.84e-03  
## 3134 7.61e-03 1.97e-02 7.50e-03 -5.10e-03 -6.34e-03 1.93e-02 8.16e-03  
## 3135 2.10e-02 -2.15e-02 6.76e-03 -5.38e-03 -8.13e-03 3.92e-02 -3.42e-02  
## 3136 -2.50e-02 1.42e-02 -1.02e-02 7.82e-03 3.35e-03 6.25e-03 1.93e-02  
## 3137 -1.46e-02 -1.36e-02 -2.83e-02 -7.98e-03 3.79e-03 -8.86e-03 -6.73e-03  
## 3138 -2.50e-02 -2.49e-02 3.52e-03 -6.01e-03 -1.40e-02 3.64e-02 7.69e-03  
## 3139 2.89e-02 1.08e-02 -1.59e-03 -8.41e-03 -1.20e-02 1.98e-03 -2.65e-02  
## 3140 5.25e-03 5.20e-03 -8.06e-04 1.60e-03 2.90e-03 -5.32e-03 -1.68e-03  
## 3141 3.96e-03 1.31e-02 1.07e-02 -5.47e-03 -3.36e-03 4.46e-03 -1.59e-02  
## 3142 -2.05e-02 1.22e-02 4.67e-03 1.21e-02 1.57e-02 -1.43e-02 -9.40e-03  
## 3143 1.27e-02 -1.56e-02 -1.43e-02 -2.91e-02 2.15e-02 1.16e-02 1.62e-02  
## 3144 -1.17e-02 -7.69e-03 -5.00e-03 7.25e-03 1.32e-03 8.16e-03 1.25e-02  
## 3145 7.61e-03 -1.06e-02 -1.93e-03 3.72e-03 3.32e-03 5.35e-03 -7.11e-03  
## 3146 -2.25e-02 1.15e-02 -8.10e-03 5.47e-03 3.58e-03 -4.79e-03 2.03e-02  
## 3147 -1.51e-02 1.23e-02 -4.03e-03 -1.01e-02 -1.47e-02 4.84e-03 1.80e-02  
## 3148 6.03e-03 -9.40e-03 -4.65e-03 7.89e-03 2.77e-03 5.74e-04 1.31e-02  
## 3149 -5.36e-04 -8.28e-03 -3.26e-03 5.22e-03 2.92e-03 2.45e-03 -1.52e-02  
## 3150 -2.00e-02 -1.73e-02 3.97e-02 1.11e-02 -3.82e-03 -1.49e-03 1.68e-02  
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## 3152 4.13e-03 -4.15e-03 -9.05e-04 2.21e-03 1.87e-03 2.93e-03 -8.19e-04  
## 3153 3.14e-02 -1.94e-02 7.04e-03 -7.35e-03 -8.55e-03 6.90e-03 6.44e-03  
## 3154 1.23e-03 -1.98e-02 1.50e-02 4.07e-02 -2.90e-02 -1.73e-03 1.03e-02  
## 3155 -3.30e-03 2.65e-02 5.14e-02 1.88e-02 -8.96e-03 8.44e-03 -2.35e-02  
## 3156 2.05e-03 4.20e-03 3.47e-05 1.48e-04 4.10e-03 -5.39e-03 -9.40e-03  
## 3157 3.70e-04 3.24e-03 -1.86e-04 1.41e-03 2.19e-03 -3.55e-03 -1.58e-04  
## 3158 -1.20e-03 1.28e-02 -7.30e-03 8.23e-03 4.21e-03 6.16e-03 -2.98e-02  
## 3159 -1.81e-02 1.44e-02 2.89e-02 1.77e-02 -6.43e-03 1.09e-02 -4.97e-03  
## 3160 7.18e-03 1.55e-02 -1.39e-02 1.28e-02 1.99e-03 1.48e-02 1.45e-02  
## 3161 9.22e-04 2.03e-03 2.74e-04 -1.58e-03 -1.86e-03 -6.14e-04 2.29e-04  
## 3162 2.30e-05 6.88e-03 -2.86e-03 -1.38e-02 1.00e-02 -3.72e-03 -2.18e-03  
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## 3167 1.11e-03 -2.93e-03 -2.19e-04 1.78e-03 2.05e-03 -4.66e-03 4.92e-04  
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## 3174 2.91e-02 -2.33e-02 2.21e-02 3.33e-02 -3.14e-02 -2.47e-02 -3.81e-02  
## 3175 4.82e-05 -2.73e-03 -1.99e-04 1.68e-03 1.85e-03 -1.81e-03 3.74e-04  
## 3176 7.10e-03 -6.20e-03 -8.64e-04 1.65e-03 3.09e-03 -7.38e-03 -1.60e-03  
## 3177 -1.21e-03 1.41e-03 7.47e-04 1.67e-03 -2.12e-03 -2.40e-04 2.13e-03  
## 3178 -1.14e-02 -8.73e-03 -6.15e-03 -1.26e-02 1.23e-02 -7.42e-03 1.54e-02  
## 3179 1.39e-02 -1.33e-02 -2.93e-02 2.60e-02 -1.23e-02 2.14e-02 -1.86e-02  
## 3180 -7.50e-04 7.53e-04 4.58e-04 7.56e-04 -1.04e-03 1.87e-04 1.22e-03  
## 3181 3.64e-02 1.95e-02 -4.29e-02 -9.34e-03 3.50e-03 3.08e-02 -2.64e-02  
## 3182 1.01e-04 2.66e-03 -2.74e-04 5.67e-04 2.19e-03 -4.04e-03 -1.27e-03  
## 3183 4.52e-03 1.20e-02 -7.47e-03 -5.81e-03 -1.66e-02 8.07e-03 1.41e-02  
## 3184 -7.32e-03 2.15e-02 6.97e-03 -8.29e-03 -8.54e-03 7.91e-03 9.77e-03  
## 3185 6.56e-03 -4.51e-03 1.87e-04 -3.67e-03 -4.31e-03 -1.60e-03 -6.11e-04  
## 3186 -6.25e-04 5.66e-04 -6.24e-05 -2.33e-05 -6.70e-04 4.18e-04 1.24e-03  
## 3187 -9.83e-03 1.30e-02 3.01e-02 9.27e-03 -2.90e-03 -1.61e-02 1.72e-02  
## 3188 -6.36e-05 -7.29e-04 1.60e-04 -7.62e-04 -4.46e-04 -1.17e-03 -1.69e-04  
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## 3190 -1.22e-02 2.18e-02 -4.07e-02 2.47e-02 -1.53e-02 -1.98e-02 -2.62e-02  
## 3191 -8.45e-03 -1.55e-02 -1.04e-02 7.13e-03 4.17e-03 8.74e-03 1.66e-02  
## 3192 1.90e-03 -4.80e-03 -7.18e-05 1.38e-03 3.05e-03 -9.21e-03 -2.32e-04  
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## 3194 6.67e-03 1.41e-02 -1.55e-02 -1.81e-02 1.64e-02 -9.11e-03 -4.66e-03  
## 3195 2.28e-04 1.79e-03 5.31e-04 -2.29e-03 -1.02e-03 -3.45e-03 1.99e-03  
## 3196 -1.48e-02 -1.92e-02 2.55e-02 2.38e-02 -2.08e-02 -1.35e-02 9.40e-03  
## 3197 6.16e-05 -4.42e-03 -1.32e-03 4.47e-03 2.00e-03 -1.41e-04 -7.35e-03  
## 3198 -3.60e-04 1.43e-02 -6.67e-03 4.20e-03 4.56e-03 -9.11e-03 -9.18e-03  
## 3199 -7.40e-03 5.26e-03 2.29e-03 5.19e-03 -8.19e-03 3.96e-03 8.34e-03  
## 3200 1.57e-03 1.43e-03 2.79e-04 2.81e-03 -2.95e-03 9.44e-04 8.41e-05  
## 3201 -1.61e-04 2.06e-04 7.55e-05 -5.05e-05 2.73e-04 3.85e-04 -7.88e-05  
## 3202 6.68e-03 -5.97e-03 -9.06e-04 1.81e-03 2.94e-03 -5.46e-03 -1.46e-03  
## 3203 1.44e-02 -6.71e-03 -1.75e-03 2.34e-03 3.06e-03 -1.03e-02 -2.58e-03  
## 3204 4.03e-03 6.26e-03 -5.58e-03 -8.45e-03 8.25e-03 6.99e-05 -1.15e-02  
## 3205 -2.79e-03 7.08e-03 6.50e-03 -3.20e-03 -1.38e-03 -3.57e-03 6.50e-03  
## 3206 7.45e-04 2.22e-03 -2.51e-04 3.38e-04 2.11e-03 -3.59e-03 -5.36e-04  
## 3207 1.94e-03 -2.96e-03 -2.50e-04 1.53e-03 1.79e-03 -3.25e-03 1.96e-05  
## 3208 -5.04e-03 1.08e-02 -1.22e-02 -1.71e-02 1.32e-02 8.74e-03 1.43e-02  
## 3209 -3.24e-03 -4.08e-03 -7.11e-04 -1.54e-03 -4.21e-03 1.65e-03 7.48e-03  
## 3210 -1.92e-02 1.08e-02 2.17e-02 1.49e-02 -3.76e-03 -2.16e-03 -1.42e-04  
## 3211 -1.07e-02 1.25e-02 -1.55e-02 -1.92e-02 1.48e-02 3.52e-03 -1.63e-03  
## 3212 7.43e-04 2.32e-02 1.43e-03 2.09e-02 2.39e-02 1.54e-02 8.66e-03  
## 3213 1.34e-02 -7.88e-03 -1.86e-03 2.04e-03 3.63e-03 -1.07e-02 -2.77e-03  
## 3214 -5.70e-03 2.21e-03 -1.78e-03 3.16e-03 4.93e-04 1.74e-03 4.52e-03  
## 3215 6.32e-04 -2.53e-03 3.61e-04 -1.59e-03 -1.97e-03 -3.05e-03 -3.23e-03  
## 3216 1.73e-03 -3.70e-03 1.68e-03 3.97e-03 -5.50e-03 2.85e-04 4.40e-03  
## 3217 -9.01e-03 1.13e-02 -4.64e-03 2.55e-03 3.96e-03 -1.64e-02 1.71e-02  
## 3218 -8.66e-03 1.01e-02 -3.30e-03 3.23e-03 4.08e-03 -1.37e-02 -3.66e-03  
## 3219 -8.79e-03 1.11e-02 -8.46e-03 -2.39e-02 1.64e-02 -2.19e-02 1.69e-02  
## 3220 -2.81e-02 1.59e-02 6.68e-03 -6.88e-03 -4.80e-03 -3.76e-03 3.96e-02  
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## 3222 4.95e-03 5.51e-03 -9.84e-04 1.78e-03 3.02e-03 -4.88e-03 -1.32e-03  
## 3223 1.75e-04 1.18e-02 -2.68e-03 -1.12e-02 -1.45e-02 -9.93e-04 -5.37e-03  
## 3224 7.87e-04 9.50e-03 -6.90e-03 -8.15e-04 -1.36e-02 -4.20e-03 -1.68e-03  
## 3225 -1.52e-03 9.27e-03 8.65e-03 -5.53e-03 -1.33e-03 -6.02e-03 7.00e-03  
## 3226 1.79e-03 -2.58e-03 -2.80e-04 5.92e-04 2.27e-03 -6.66e-03 -1.30e-03  
## 3227 2.18e-02 -7.63e-03 -1.13e-03 4.18e-03 3.69e-03 1.04e-02 -7.65e-03  
## 3228 -9.19e-04 1.62e-03 4.82e-05 -9.21e-04 -1.55e-03 7.00e-04 -4.99e-05  
## 3229 -9.79e-03 1.42e-02 3.11e-02 -2.70e-02 1.20e-02 -2.71e-02 1.90e-02  
## 3230 -4.87e-05 -7.88e-04 2.03e-04 -5.31e-04 -5.71e-04 -7.90e-04 2.31e-04  
## 3231 1.50e-04 1.36e-03 4.26e-04 -1.49e-03 -5.80e-04 -2.66e-03 -2.42e-03  
## 3232 -3.48e-03 1.00e-02 -5.26e-03 5.29e-03 3.85e-03 -8.33e-04 -2.04e-02  
## 3233 -4.26e-04 -1.73e-03 2.93e-05 2.57e-04 1.56e-03 -3.76e-03 -6.77e-04  
## 3234 2.01e-05 -7.20e-05 1.78e-05 -4.54e-05 -5.55e-05 -8.98e-05 2.24e-05  
## 3235 -2.92e-03 8.49e-03 -2.35e-03 3.44e-03 3.21e-03 3.01e-03 -3.70e-03  
## 3236 1.93e-04 2.31e-02 2.47e-02 2.87e-02 -3.19e-02 2.08e-02 -2.42e-03  
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## 3244 5.78e-03 -9.11e-03 -1.53e-02 1.43e-02 -5.66e-03 9.23e-04 4.97e-03  
## 3245 1.17e-02 -1.10e-02 -2.30e-03 -9.14e-03 -1.22e-02 -1.69e-03 -5.90e-03  
## 3246 5.20e-03 5.74e-03 -2.24e-03 -1.16e-02 9.50e-03 -8.78e-03 -4.86e-04  
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## 3248 2.26e-03 7.32e-03 3.88e-04 -5.71e-03 -7.18e-03 -4.24e-03 -1.20e-02  
## 3249 2.41e-02 -1.35e-02 -9.08e-03 -3.93e-03 -1.99e-02 5.64e-03 -7.55e-03  
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## 3255 -2.82e-02 -1.68e-02 -1.05e-02 6.54e-03 4.11e-03 -3.00e-03 2.20e-02  
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## 3271 -4.67e-04 -2.49e-03 -4.39e-04 -4.86e-03 4.53e-03 -4.94e-03 6.20e-04  
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## 3273 1.64e-03 2.90e-03 5.39e-04 -2.66e-03 -2.56e-03 -3.84e-03 1.37e-04  
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## 3275 -7.33e-04 2.40e-03 5.71e-04 -1.74e-03 -2.26e-03 -1.30e-03 2.88e-04  
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## 3278 -1.71e-03 6.54e-03 -7.19e-03 -7.12e-03 8.01e-03 -4.89e-03 -9.76e-04  
## 3279 -7.67e-04 6.75e-04 1.08e-04 6.39e-05 6.95e-04 -2.06e-03 -1.59e-04  
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## 3289 1.93e-02 -1.45e-02 -9.04e-03 6.19e-03 4.31e-03 -6.33e-03 -3.58e-02  
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## 3291 -5.64e-03 6.27e-03 -5.13e-04 -8.47e-04 6.24e-03 7.69e-04 8.08e-03  
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## 3296 9.20e-04 -1.61e-03 1.43e-04 -9.21e-04 -1.39e-03 8.49e-04 2.34e-04  
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## 3309 6.65e-03 5.55e-03 -7.64e-04 1.42e-03 3.03e-03 -9.13e-03 -1.82e-03  
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## 3311 3.92e-03 6.29e-03 1.18e-02 -4.66e-03 3.79e-03 -5.63e-03 -1.87e-03  
## 3312 4.65e-03 -5.82e-03 -3.73e-03 -1.03e-02 9.88e-03 -4.30e-03 8.76e-03  
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## 3316 1.04e-02 1.21e-02 2.59e-02 -1.81e-02 9.83e-03 -2.17e-03 -7.61e-03  
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## 3334 -7.35e-03 5.20e-03 -4.12e-04 -5.16e-04 5.36e-03 2.78e-03 7.94e-03  
## 3335 2.35e-03 8.68e-03 -1.86e-02 -6.84e-03 2.99e-03 2.03e-03 6.98e-03  
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## 3349 -1.29e-03 -1.98e-03 -6.51e-04 2.04e-03 7.36e-04 2.64e-03 3.74e-03  
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## 3354 7.95e-03 5.78e-03 -1.88e-03 2.92e-03 2.68e-03 1.75e-03 -1.79e-03  
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## 3357 -2.45e-02 2.01e-02 6.82e-03 -6.16e-03 -9.85e-03 1.25e-02 1.33e-02  
## 3358 9.28e-04 3.05e-03 -1.91e-03 -3.82e-03 4.45e-03 3.62e-04 4.75e-03  
## 3359 -2.37e-02 1.28e-02 1.50e-02 2.28e-02 -1.68e-02 -6.91e-03 1.10e-02  
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## 3361 -8.55e-03 1.43e-02 -1.39e-02 -2.30e-02 1.89e-02 -1.55e-03 1.70e-02  
## 3362 1.33e-03 1.17e-03 -2.39e-04 1.27e-03 5.89e-04 -2.26e-05 -2.13e-03  
## 3363 -5.03e-03 -1.12e-02 -9.94e-03 1.19e-02 1.25e-03 -7.44e-04 -2.55e-03  
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## 3367 5.57e-03 1.08e-02 2.14e-02 1.57e-02 -5.66e-03 2.20e-03 -4.29e-03  
## 3368 1.16e-02 9.20e-03 -1.88e-02 -5.93e-03 3.21e-03 1.65e-03 4.93e-03  
## 3369 -5.06e-03 2.10e-02 -5.69e-02 -1.22e-02 5.68e-04 8.29e-03 1.32e-02  
## 3370 -2.09e-04 4.08e-03 -1.96e-04 1.30e-04 3.52e-03 -1.02e-02 -2.13e-03  
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## 3374 7.27e-03 -6.11e-03 -7.84e-04 1.54e-03 3.08e-03 -7.94e-03 -1.78e-03  
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## 3377 3.61e-04 -2.56e-03 2.00e-04 -2.33e-05 2.40e-03 -6.02e-03 2.73e-03  
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## 3379 1.51e-03 1.49e-02 6.76e-03 1.29e-02 1.89e-02 2.73e-03 -1.52e-02  
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## 3387 -5.82e-03 -4.40e-03 -9.01e-04 -1.03e-03 -4.52e-03 7.04e-03 7.13e-04  
## 3388 -5.18e-03 5.48e-03 -4.96e-03 -5.93e-03 6.83e-03 -1.02e-02 1.84e-03  
## 3389 -3.04e-03 6.00e-03 -1.92e-03 4.04e-03 3.19e-03 -1.23e-03 -9.81e-03  
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## 3398 8.35e-03 -5.51e-03 -9.06e-04 1.82e-03 2.73e-03 -8.35e-03 -1.34e-03  
## 3399 -5.42e-04 -1.68e-03 4.14e-04 3.16e-03 -3.35e-03 2.89e-04 5.82e-05  
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## 3401 2.67e-04 -2.47e-03 -3.34e-04 1.55e-03 1.38e-03 1.14e-03 2.73e-04  
## 3402 1.29e-04 -4.10e-04 1.01e-03 -3.88e-04 4.61e-04 8.55e-04 1.12e-04  
## 3403 2.23e-03 2.17e-02 7.52e-03 -7.10e-03 -8.95e-03 1.53e-02 9.06e-03  
## 3404 1.02e-03 -2.70e-03 5.89e-03 -1.88e-03 2.18e-03 -3.51e-03 -8.66e-06  
## 3405 7.07e-03 -1.90e-02 5.93e-03 -6.64e-03 -8.76e-03 1.48e-02 1.15e-02  
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## 3409 -2.39e-03 -1.30e-03 -1.63e-04 1.11e-03 6.95e-04 1.09e-03 2.64e-03  
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## 3411 1.48e-02 1.21e-02 1.15e-03 1.96e-02 -2.65e-02 7.17e-03 -8.91e-03  
## 3412 7.61e-03 -6.93e-03 3.16e-04 -6.59e-03 -7.63e-03 -4.11e-03 -2.27e-03  
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## 3419 4.39e-03 -1.12e-02 8.69e-03 -5.33e-03 -2.33e-03 -7.49e-03 -9.61e-03  
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## 3423 -1.08e-02 -2.09e-02 -3.64e-02 1.93e-02 -1.24e-02 -1.46e-03 8.43e-03  
## 3424 -1.12e-03 1.15e-03 2.05e-06 3.21e-04 1.10e-03 -1.92e-03 -2.56e-04  
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## 3426 -6.18e-03 -1.23e-02 1.47e-02 1.99e-02 -1.38e-02 -5.88e-03 7.79e-03  
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## 3433 -4.91e-04 -1.12e-02 1.28e-02 1.92e-02 -1.30e-02 -3.31e-03 6.67e-03  
## 3434 2.61e-02 -2.56e-02 -4.72e-02 1.54e-02 -1.78e-02 5.27e-02 -2.57e-03  
## 3435 -5.89e-03 3.21e-03 1.73e-04 -4.58e-04 3.59e-03 9.20e-04 4.93e-03  
## 3436 2.97e-03 -3.79e-03 -2.95e-04 -1.89e-03 -3.82e-03 1.29e-03 -7.08e-04  
## 3437 1.07e-02 1.43e-02 -9.37e-03 1.08e-02 1.73e-03 1.44e-02 1.23e-02  
## 3438 6.01e-03 7.98e-03 1.66e-02 -8.92e-03 6.67e-03 -2.63e-03 8.43e-03  
## 3439 -8.46e-03 5.11e-03 -3.44e-03 -8.92e-03 8.28e-03 1.72e-03 1.00e-02  
## 3440 4.48e-03 -1.03e-02 -1.01e-02 -1.49e-02 1.36e-02 -7.57e-04 -2.90e-03  
## 3441 4.72e-03 -6.85e-03 -5.67e-03 9.11e-03 1.14e-03 -2.12e-03 -2.10e-03  
## 3442 -2.31e-02 1.00e-02 -7.81e-03 9.27e-03 2.92e-03 -2.35e-03 1.67e-03  
## 3443 -1.27e-02 -2.14e-02 -6.02e-04 2.14e-02 2.46e-02 9.30e-03 8.94e-03  
## 3444 -4.96e-04 -9.46e-03 -5.92e-03 -8.96e-04 -1.22e-02 -4.02e-03 -1.36e-04  
## 3445 -4.80e-03 7.93e-03 1.42e-02 -5.74e-03 4.85e-03 -5.65e-03 -1.03e-03  
## 3446 -2.29e-02 7.64e-03 1.51e-02 -7.34e-03 5.40e-03 2.60e-03 1.57e-02  
## 3447 -1.04e-02 1.21e-02 -5.06e-03 3.04e-03 4.80e-03 -1.09e-02 -5.97e-03  
## 3448 -5.55e-03 -8.26e-03 -8.90e-03 -7.30e-03 8.08e-03 -3.35e-03 2.34e-05  
## 3449 -1.02e-04 -1.24e-02 2.77e-02 -3.94e-03 -2.06e-02 4.72e-03 1.58e-02  
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## 3451 -1.80e-04 4.80e-04 1.12e-04 -6.14e-04 -1.79e-04 -1.29e-04 7.12e-04  
## 3452 1.37e-02 -7.74e-03 -1.72e-03 1.90e-03 3.62e-03 -1.14e-02 -3.07e-03  
## 3453 6.86e-04 1.46e-02 1.23e-02 -1.12e-02 -1.59e-03 -6.73e-03 -1.53e-02  
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## 3455 8.43e-03 -1.05e-02 -9.97e-03 -1.42e-02 1.10e-02 6.19e-03 1.26e-02  
## 3456 1.09e-04 -4.59e-04 -8.36e-05 -1.18e-04 -5.03e-04 7.75e-04 1.39e-05  
## 3457 8.15e-03 -1.01e-02 9.01e-03 -4.45e-03 -1.49e-03 -3.93e-03 5.86e-03  
## 3458 -6.43e-03 1.39e-02 -1.18e-02 1.25e-02 2.47e-03 9.25e-03 -3.43e-03  
## 3459 3.83e-03 -1.30e-02 -1.54e-02 -2.23e-02 1.59e-02 1.14e-03 1.61e-02  
## 3460 -8.92e-03 1.19e-02 -5.22e-03 3.70e-03 4.36e-03 -1.06e-02 -4.98e-03  
## 3461 -4.66e-04 -1.02e-03 1.71e-04 -7.02e-06 9.80e-04 -2.34e-03 1.20e-03  
## 3462 4.67e-03 -8.24e-03 -1.71e-02 -5.73e-03 2.62e-03 -4.27e-03 -6.38e-03  
## 3463 7.51e-03 5.05e-03 5.39e-04 -5.57e-03 -5.05e-03 -8.75e-03 -1.19e-03  
## 3464 -1.15e-02 -2.18e-02 4.54e-02 1.87e-02 -8.50e-03 1.24e-02 2.01e-02  
## 3465 6.00e-03 9.46e-03 -1.02e-03 -8.39e-03 -1.03e-02 -7.60e-03 -3.03e-03  
## 3466 1.52e-04 -2.19e-03 -3.35e-04 1.48e-03 1.21e-03 1.81e-03 2.89e-04  
## 3467 -1.26e-03 -1.22e-02 2.21e-02 1.75e-02 -6.13e-03 5.98e-03 -4.88e-03  
## 3468 -2.10e-02 -1.93e-02 2.05e-02 2.62e-02 -2.00e-02 -1.45e-03 7.99e-03  
## 3469 -3.54e-03 6.66e-03 1.51e-02 1.79e-03 -1.36e-02 4.02e-03 4.08e-04  
## 3470 3.54e-03 -4.27e-03 9.30e-04 -4.15e-03 -3.49e-03 -9.34e-03 9.99e-05  
## 3471 -9.84e-03 8.78e-03 1.63e-02 -6.95e-03 5.86e-03 -6.24e-03 7.63e-04  
## 3472 -1.99e-02 -1.81e-02 -1.55e-02 1.06e-02 2.34e-03 2.46e-03 -5.92e-03  
## 3473 1.68e-02 -1.03e-02 -4.38e-03 8.34e-03 4.27e-03 -1.24e-03 -2.44e-02  
## 3474 1.18e-02 2.03e-02 7.67e-03 -5.52e-03 -6.40e-03 1.27e-02 7.80e-03  
## 3475 1.68e-03 -3.10e-03 1.33e-03 3.79e-03 -5.38e-03 -7.97e-03 -1.49e-03  
## 3476 -8.79e-03 -1.35e-02 -5.69e-03 4.75e-03 4.31e-03 -1.09e-02 -2.46e-02  
## 3477 -4.82e-03 9.57e-03 -4.72e-03 5.29e-03 2.90e-03 -3.45e-03 -3.28e-03  
## 3478 -7.24e-03 -1.34e-02 -8.84e-03 7.65e-03 3.27e-03 8.97e-03 1.38e-02  
## 3479 -3.45e-03 -1.32e-02 2.55e-02 -1.69e-02 8.62e-03 8.43e-03 1.60e-02  
## 3480 1.03e-02 -1.21e-02 9.65e-03 -4.50e-03 -2.47e-03 5.76e-03 6.43e-03  
## 3481 -5.92e-03 7.37e-03 -4.75e-03 7.76e-03 2.49e-03 -3.02e-03 1.22e-04  
## 3482 -4.82e-04 2.44e-03 -3.12e-04 6.70e-04 2.04e-03 -1.93e-03 -1.11e-03  
## 3483 -7.19e-03 1.31e-02 -7.01e-03 5.99e-03 4.25e-03 -1.23e-03 -2.91e-02  
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## 3486 2.63e-03 3.33e-03 -1.73e-03 -5.20e-03 5.06e-03 1.31e-03 -8.97e-04  
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## 3488 -4.53e-03 1.23e-02 -5.34e-03 3.88e-03 4.16e-03 -1.63e-02 -4.80e-03  
## 3489 -4.03e-03 1.13e-02 7.34e-03 8.63e-03 1.55e-02 4.38e-03 5.42e-03  
## 3490 1.22e-02 -9.35e-03 -1.92e-02 -5.99e-03 3.09e-03 3.72e-03 5.31e-03  
## 3491 -1.29e-02 1.08e-02 -6.30e-03 7.21e-03 2.93e-03 2.36e-03 1.50e-02  
## 3492 -2.24e-02 -2.03e-02 3.99e-02 -3.66e-02 1.52e-02 -1.27e-02 2.18e-02  
## 3493 2.97e-02 -2.14e-02 1.64e-02 -1.94e-02 -3.92e-03 -2.53e-02 -3.33e-02  
## 3494 -2.92e-02 2.61e-02 3.67e-03 -6.33e-03 -1.31e-02 3.49e-02 6.04e-03  
## 3495 -3.60e-03 -8.69e-03 -1.00e-02 -9.86e-03 9.51e-03 -3.11e-03 -3.48e-04  
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## 3497 -1.71e-04 7.63e-03 -4.30e-03 7.54e-03 2.81e-03 5.63e-03 1.11e-02  
## 3498 -3.50e-03 5.80e-03 -4.62e-03 7.72e-03 7.87e-04 -6.86e-04 -2.30e-05  
## 3499 6.69e-04 -3.83e-03 -2.31e-04 3.35e-04 3.35e-03 -8.74e-03 -2.01e-03  
## 3500 -1.93e-02 1.22e-02 -7.92e-03 4.54e-03 3.88e-03 -1.57e-02 2.00e-02  
## 3501 4.26e-04 1.58e-02 -1.22e-02 1.02e-02 2.99e-03 6.69e-03 -7.82e-03  
## 3502 5.44e-03 5.55e-03 -8.55e-04 1.56e-03 3.09e-03 -6.59e-03 -1.65e-03  
## 3503 1.57e-04 -2.55e-04 -1.47e-04 4.00e-04 6.52e-05 -4.03e-04 2.35e-05  
## 3504 -1.04e-02 1.21e-02 -5.05e-03 3.03e-03 4.80e-03 -1.09e-02 -5.99e-03  
## 3505 -2.01e-02 -1.98e-02 -1.69e-02 9.12e-03 3.24e-03 -1.32e-03 -7.69e-03  
## 3506 -2.16e-04 2.98e-04 -6.65e-05 3.12e-04 2.05e-04 4.40e-04 -3.90e-04  
## 3507 1.20e-03 2.76e-03 7.01e-03 3.62e-03 -1.24e-04 3.48e-03 -4.30e-03  
## 3508 7.02e-03 3.91e-03 1.19e-04 -3.36e-03 -3.94e-03 -5.31e-03 -4.71e-04  
## 3509 -5.90e-04 3.69e-03 -1.04e-03 3.53e-05 -4.56e-03 -4.05e-03 7.55e-04  
## 3510 6.69e-03 8.37e-03 -3.13e-03 4.05e-03 3.39e-03 1.17e-04 -3.88e-03  
## 3511 1.10e-02 -1.87e-02 7.64e-03 -5.52e-03 -7.18e-03 1.88e-02 1.02e-02  
## 3512 -3.31e-02 -3.27e-02 2.57e-02 3.19e-02 -3.89e-02 1.60e-02 -4.78e-02  
## 3513 5.86e-03 5.74e-03 -7.89e-04 1.38e-03 3.24e-03 -8.45e-03 -1.86e-03  
## 3514 -2.31e-02 1.50e-02 3.13e-02 2.02e-02 -7.33e-03 9.78e-03 -5.04e-03  
## 3515 6.64e-03 -4.98e-03 -2.14e-03 -9.60e-03 7.55e-03 -1.72e-03 -9.07e-04  
## 3516 5.66e-04 1.51e-03 7.06e-05 3.33e-04 1.46e-03 -1.87e-03 -2.03e-04  
## 3517 3.20e-04 4.43e-04 3.00e-05 -2.40e-04 -4.15e-04 2.24e-04 6.69e-05  
## 3518 -3.00e-04 1.51e-03 1.06e-03 1.42e-03 -2.12e-03 2.12e-03 -2.63e-04  
## 3519 4.06e-03 9.28e-03 -1.90e-02 -8.13e-03 4.32e-03 1.73e-04 6.26e-03  
## 3520 -4.70e-03 1.93e-02 -3.09e-02 1.86e-02 -1.04e-02 -3.42e-03 7.62e-03  
## 3521 1.48e-02 -1.81e-02 -5.07e-02 -1.28e-02 3.41e-03 1.14e-02 1.15e-02  
## 3522 5.48e-03 -1.23e-02 1.24e-02 2.33e-02 -1.45e-02 1.11e-02 5.31e-03  
## 3523 -3.56e-02 -2.49e-02 7.48e-03 -1.09e-02 -1.18e-02 4.71e-03 8.52e-03  
## 3524 -1.34e-02 2.01e-02 3.92e-02 -3.56e-02 1.50e-02 -7.03e-03 1.78e-02  
## 3525 1.80e-02 -1.25e-02 -4.61e-03 6.61e-03 3.57e-03 8.47e-03 -2.84e-02  
## 3526 2.05e-03 -2.91e-03 -2.14e-04 1.47e-03 1.78e-03 -3.45e-03 -8.61e-05  
## 3527 -1.42e-02 2.04e-02 9.79e-03 -1.04e-02 -4.29e-03 -4.56e-03 1.36e-02  
## 3528 5.17e-03 -5.65e-03 -7.56e-04 2.15e-03 3.29e-03 -7.92e-03 -7.84e-04  
## 3529 -2.59e-02 2.43e-02 7.60e-04 -5.60e-02 5.90e-02 7.75e-04 -3.68e-02  
## 3530 -8.98e-05 3.75e-03 -1.55e-03 2.23e-04 -4.82e-03 -4.20e-03 3.60e-04  
## 3531 -6.13e-03 -1.97e-02 -1.70e-02 6.99e-03 5.10e-03 1.63e-03 -1.28e-02  
## 3532 -2.58e-03 4.39e-03 -1.60e-04 -3.22e-03 -4.75e-03 -6.28e-04 -1.11e-03  
## 3533 3.70e-03 -4.02e-03 2.87e-04 -3.58e-04 4.47e-03 3.57e-03 -8.58e-03  
## 3534 1.81e-02 -1.83e-02 8.30e-03 -6.51e-03 -6.90e-03 1.00e-02 7.85e-03  
## 3535 -1.49e-03 2.06e-03 4.23e-04 -3.57e-04 2.55e-03 2.56e-03 -3.73e-03  
## 3536 -1.82e-03 -6.36e-03 -5.16e-03 -8.96e-03 8.56e-03 7.63e-03 1.11e-02  
## 3537 7.78e-03 5.44e-03 -6.16e-04 -3.00e-03 -5.50e-03 -1.26e-03 7.45e-03  
## 3538 1.35e-03 -2.37e-03 1.69e-03 2.16e-03 -3.05e-03 3.25e-03 -1.01e-03  
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## 3540 -9.42e-03 -1.54e-02 -1.50e-02 1.61e-02 -3.96e-04 1.05e-02 -3.12e-03  
## 3541 -3.01e-04 -3.62e-03 1.48e-03 3.85e-03 -5.67e-03 7.90e-04 5.47e-03  
## 3542 -2.00e-03 -2.89e-03 -7.03e-03 2.05e-03 -2.81e-03 1.73e-03 4.53e-03  
## 3543 -3.36e-03 1.96e-03 -1.26e-03 2.75e-03 2.91e-04 5.47e-04 9.93e-04  
## 3544 -1.94e-03 -4.75e-03 -4.79e-04 5.83e-04 4.56e-03 -3.85e-04 -1.54e-03  
## 3545 4.99e-03 -1.71e-02 1.19e-02 -1.29e-02 -2.30e-03 -1.61e-02 -2.06e-02  
## 3546 4.97e-03 1.19e-02 3.21e-03 -1.73e-02 2.80e-02 -2.43e-03 -1.18e-02  
## 3547 -2.21e-03 2.37e-03 -1.79e-03 3.38e-03 4.87e-04 -3.49e-03 8.17e-04  
## 3548 2.41e-04 -1.46e-03 3.73e-04 -1.71e-03 -9.01e-04 -2.37e-03 1.84e-03  
## 3549 -2.12e-02 -1.84e-02 -4.42e-03 2.67e-02 -4.14e-02 1.01e-03 2.28e-02  
## 3550 1.15e-02 -1.26e-02 1.14e-02 -8.27e-03 -2.26e-03 -4.50e-03 5.61e-03  
## 3551 2.16e-03 3.31e-03 7.38e-04 -3.34e-03 -2.85e-03 -6.71e-03 -2.47e-05  
## 3552 2.31e-02 -1.07e-02 2.54e-02 1.31e-02 -3.25e-03 6.62e-03 1.07e-02  
## 3553 -1.12e-02 1.41e-02 -6.88e-03 -6.23e-03 -1.73e-02 -9.45e-03 -3.63e-03  
## 3554 -2.86e-04 6.89e-04 1.16e-06 4.45e-04 5.11e-04 -6.02e-04 1.57e-04  
## 3555 -1.42e-02 9.41e-03 -3.22e-03 3.25e-03 4.25e-03 -4.19e-03 -3.78e-03  
## 3556 1.62e-02 -1.70e-02 1.26e-02 -1.11e-02 -2.49e-03 -1.04e-02 4.13e-03  
## 3557 2.23e-04 -9.66e-03 -1.80e-02 -6.62e-03 3.17e-03 -1.47e-03 7.71e-03  
## 3558 -4.04e-03 1.76e-02 3.37e-02 1.87e-02 -7.17e-03 7.49e-03 -7.97e-03  
## 3559 -1.31e-02 5.90e-03 -5.49e-03 7.97e-03 8.36e-04 -8.65e-04 1.62e-03  
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## 3563 2.15e-02 -1.41e-02 -1.03e-02 9.87e-03 3.06e-03 1.33e-02 1.30e-02  
## 3564 2.08e-04 3.24e-03 -2.55e-04 1.54e-03 2.17e-03 -2.32e-03 -5.11e-05  
## 3565 -4.19e-04 1.46e-03 4.41e-04 -1.24e-03 -1.09e-03 -2.62e-03 4.34e-04  
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## 3567 -2.12e-02 -1.73e-02 3.38e-02 1.74e-02 -7.94e-03 9.25e-03 1.95e-02  
## 3568 9.94e-03 -3.89e-03 -4.70e-04 -2.47e-03 -4.37e-03 4.28e-04 -7.64e-04  
## 3569 1.37e-02 -7.94e-03 -1.83e-03 1.95e-03 3.68e-03 -1.15e-02 -2.86e-03  
## 3570 -3.22e-03 7.53e-03 -5.55e-03 8.43e-03 1.22e-03 1.99e-02 1.31e-02  
## 3571 9.88e-05 -5.62e-05 -1.60e-05 1.05e-06 -6.25e-05 1.66e-04 -8.13e-05  
## 3572 3.78e-03 -2.59e-02 7.50e-03 -1.87e-02 -1.08e-02 -1.45e-02 6.73e-03  
## 3573 1.98e-03 -4.93e-03 -1.71e-03 3.95e-03 2.04e-03 7.41e-03 -1.63e-03  
## 3574 -9.76e-03 1.18e-02 -9.46e-03 -4.59e-03 -1.89e-02 5.98e-03 -1.34e-03  
## 3575 -4.14e-02 2.06e-02 -4.07e-03 -3.03e-02 4.41e-02 -1.58e-02 1.92e-02  
## 3576 -2.27e-03 -5.87e-03 -1.43e-03 5.06e-04 5.29e-03 -1.65e-03 -9.77e-04  
## 3577 -1.44e-02 -2.06e-02 -1.47e-02 7.59e-03 5.32e-03 4.83e-03 2.11e-02  
## 3578 1.21e-03 5.26e-03 -8.30e-04 -2.62e-03 -6.10e-03 3.73e-03 8.64e-03  
## 3579 -1.12e-02 1.68e-02 -1.41e-02 -3.28e-02 2.23e-02 8.41e-04 1.95e-02  
## 3580 -1.36e-02 9.48e-03 2.24e-02 -1.30e-02 9.22e-03 1.39e-03 1.43e-02  
## 3581 1.66e-03 -2.29e-02 5.00e-03 -6.80e-03 -1.03e-02 1.21e-02 -3.20e-02  
## 3582 -5.81e-03 -9.21e-03 -1.67e-02 -7.11e-03 2.84e-03 -2.83e-03 8.40e-03  
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## 3584 1.54e-03 8.66e-03 -3.29e-03 -4.53e-03 -1.17e-02 7.40e-04 -1.67e-02  
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## 3586 -1.45e-02 1.47e-02 7.75e-03 -4.86e-03 -6.21e-03 -1.07e-02 -1.69e-02  
## 3587 7.92e-03 1.96e-02 7.53e-03 -5.09e-03 -6.28e-03 1.90e-02 7.85e-03  
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## 3589 -6.51e-03 -1.32e-02 -7.61e-03 5.07e-03 4.01e-03 -8.58e-03 1.78e-02  
## 3590 1.24e-02 1.14e-02 -2.56e-02 -7.69e-03 3.96e-03 7.76e-03 -1.26e-02  
## 3591 -1.25e-02 2.23e-02 5.50e-03 -7.32e-03 -1.16e-02 9.35e-03 1.13e-02  
## 3592 5.58e-03 1.64e-02 -1.44e-02 -2.78e-02 1.93e-02 9.81e-03 1.73e-02  
## 3593 -1.84e-02 1.21e-02 3.36e-02 7.16e-03 -1.82e-03 -1.36e-02 -5.30e-03  
## 3594 5.75e-03 -2.58e-03 -2.21e-04 -8.36e-04 -2.89e-03 3.56e-03 -4.88e-03  
## 3595 5.52e-03 -1.90e-02 -4.34e-02 -1.70e-03 4.07e-02 -1.51e-02 6.27e-03  
## 3596 5.41e-04 -3.71e-04 -4.95e-05 -1.06e-04 -3.94e-04 9.82e-04 1.90e-05  
## 3597 1.14e-02 -5.73e-03 -3.63e-03 5.62e-03 1.49e-03 3.59e-03 -1.22e-02  
## 3598 2.88e-02 -1.86e-02 6.32e-03 -5.07e-03 -8.42e-03 1.37e-02 6.40e-03  
## 3599 2.44e-03 1.79e-03 -1.16e-04 -1.05e-03 -1.97e-03 2.80e-03 -1.14e-04  
## 3600 -2.39e-03 7.16e-03 -4.08e-03 5.22e-03 2.35e-03 6.90e-03 -2.57e-03  
## 3601 -8.10e-03 -9.17e-03 -1.02e-02 -8.06e-03 8.79e-03 -3.47e-03 1.54e-03  
## 3602 -2.98e-03 -4.93e-03 3.43e-04 1.96e-03 2.92e-03 -1.55e-03 -5.98e-04  
## 3603 4.52e-02 -1.77e-02 1.67e-02 -1.69e-02 -2.37e-03 -1.31e-02 -3.60e-04  
## 3604 -1.89e-03 -9.07e-03 -8.09e-03 1.15e-02 6.46e-04 -2.50e-03 -1.59e-03  
## 3605 -1.14e-02 9.54e-03 9.47e-03 -6.79e-03 -8.91e-04 -4.17e-03 8.63e-03  
## 3606 -8.39e-03 8.58e-03 -3.77e-03 7.61e-03 3.37e-03 -6.24e-03 1.26e-02  
## 3607 -2.35e-02 1.65e-02 -1.50e-02 1.06e-02 2.51e-03 3.58e-03 -5.75e-03  
## 3608 -7.77e-03 9.19e-03 2.14e-02 1.39e-02 -3.04e-03 8.58e-03 1.44e-02  
## 3609 5.21e-04 -1.06e-03 5.29e-04 1.17e-03 -1.62e-03 -8.14e-04 -2.12e-03  
## 3610 -9.21e-03 -1.41e-02 -3.19e-02 2.63e-03 2.68e-02 -7.49e-03 1.00e-02  
## 3611 -3.48e-03 -2.95e-03 5.91e-03 -2.32e-03 2.18e-03 2.61e-04 4.96e-03  
## 3612 -1.07e-02 1.58e-02 -3.02e-02 2.34e-02 -1.11e-02 3.85e-03 -1.47e-02  
## 3613 -1.24e-03 4.56e-03 -1.87e-03 -1.81e-03 -6.07e-03 6.04e-03 -8.47e-03  
## 3614 -7.79e-03 6.98e-03 -1.08e-03 -8.01e-04 7.08e-03 8.29e-04 -1.35e-03  
## 3615 9.41e-03 1.01e-02 2.19e-02 -1.47e-02 8.45e-03 5.79e-03 1.20e-02  
## 3616 1.62e-02 2.03e-02 5.96e-03 1.92e-02 2.23e-02 3.45e-02 -2.89e-02  
## 3617 -6.44e-03 5.58e-03 -2.16e-04 -8.75e-04 5.87e-03 3.06e-03 7.44e-03  
## 3618 -2.44e-02 1.43e-02 2.62e-02 -1.89e-02 9.02e-03 3.25e-03 2.20e-02  
## 3619 3.45e-03 -1.06e-02 2.02e-02 3.14e-03 -2.15e-02 1.25e-03 -1.83e-03  
## 3620 8.74e-04 3.01e-03 1.27e-03 3.52e-03 -5.03e-03 -8.10e-03 -1.45e-03  
## 3621 5.75e-03 5.95e-03 8.85e-04 9.95e-03 -1.32e-02 1.50e-03 -2.34e-03  
## 3622 1.09e-03 -3.71e-03 -2.51e-04 1.66e-03 2.24e-03 -2.78e-03 5.80e-06  
## 3623 1.73e-02 9.79e-03 -1.35e-03 3.75e-03 4.43e-03 6.20e-03 -8.05e-03  
## 3624 2.86e-03 4.68e-03 3.47e-04 -3.51e-03 -3.79e-03 -8.90e-03 -6.76e-03  
## 3625 -4.39e-02 2.58e-02 4.60e-03 -9.22e-03 -1.27e-02 4.46e-02 5.83e-03  
## 3626 -1.05e-02 1.86e-02 -4.53e-02 3.51e-02 -1.79e-02 2.28e-02 1.12e-02  
## 3627 -8.43e-03 -1.74e-02 -1.91e-02 -2.87e-02 1.93e-02 5.78e-03 -6.21e-03  
## 3628 -3.06e-02 -2.12e-02 4.58e-02 1.26e-02 -6.74e-03 -6.40e-03 2.32e-02  
## 3629 -8.37e-05 2.25e-04 5.34e-04 3.95e-04 -5.04e-05 -2.69e-04 1.62e-05  
## 3630 2.76e-04 1.59e-03 8.43e-04 1.76e-03 -2.57e-03 -3.96e-03 1.74e-03  
## 3631 6.64e-03 -4.14e-03 1.18e-03 6.20e-03 -8.34e-03 -3.48e-03 -8.00e-04  
## 3632 -2.31e-02 -2.53e-02 4.62e-03 -8.89e-03 -1.38e-02 1.81e-02 6.39e-03  
## 3633 -1.07e-03 1.98e-02 -4.63e-02 3.62e-02 -1.87e-02 2.60e-02 1.04e-02  
## 3634 -7.96e-03 -1.23e-02 2.01e-02 -9.19e-03 6.33e-03 -8.14e-03 -1.19e-03  
## 3635 -5.68e-03 -1.42e-02 -2.29e-02 1.81e-02 -8.10e-03 -4.35e-03 9.06e-03  
## 3636 5.62e-04 -2.71e-03 -4.67e-04 2.82e-03 1.09e-03 -6.93e-04 -3.66e-04  
## 3637 1.88e-02 -1.84e-02 3.59e-02 2.19e-02 -8.78e-03 1.17e-02 -1.66e-02  
## 3638 -1.40e-04 2.08e-04 9.80e-05 2.97e-04 -3.31e-04 -3.86e-04 -3.37e-05  
## 3639 -3.59e-04 7.94e-04 2.72e-04 1.65e-03 -1.58e-03 1.87e-04 -1.07e-03  
## 3640 6.28e-03 -5.50e-03 -8.50e-04 1.86e-03 2.69e-03 -3.70e-03 -1.49e-03  
## 3641 -1.63e-02 6.77e-03 -3.25e-03 6.06e-03 2.09e-03 3.44e-03 1.27e-02  
## 3642 -3.33e-02 1.87e-02 4.19e-02 1.31e-02 -6.06e-03 -2.90e-03 2.11e-02  
## 3643 -8.95e-03 -1.14e-02 -7.15e-03 -1.44e-03 -1.54e-02 -9.34e-04 4.50e-04  
## 3644 3.05e-04 -2.52e-03 1.81e-04 1.13e-05 2.36e-03 -5.68e-03 2.73e-03  
## 3645 -8.51e-04 1.69e-03 4.42e-03 2.69e-03 4.21e-05 4.70e-03 -2.41e-03  
## 3646 6.74e-06 -6.26e-05 1.50e-04 -5.66e-05 6.89e-05 1.45e-04 1.71e-05  
## 3647 3.37e-02 1.94e-02 -4.32e-02 -9.81e-03 3.71e-03 3.44e-02 -2.69e-02  
## 3648 2.76e-03 5.35e-03 -2.38e-03 -7.47e-03 7.90e-03 -3.40e-03 7.96e-03  
## 3649 2.68e-03 -1.28e-02 -1.34e-02 -2.14e-02 1.57e-02 7.66e-03 1.46e-02  
## 3650 4.76e-03 -2.63e-03 -1.40e-03 -4.57e-03 4.00e-03 1.27e-03 -3.19e-04  
## 3651 -8.54e-03 2.98e-03 7.81e-03 -3.91e-03 3.61e-03 7.58e-04 6.69e-04  
## 3652 2.54e-03 -1.93e-03 -2.58e-05 -8.32e-04 -1.81e-03 -1.58e-03 -2.76e-03  
## 3653 2.22e-03 -8.23e-03 -1.16e-03 2.99e-03 2.82e-03 4.52e-04 -3.92e-03  
## 3654 1.21e-04 3.43e-03 -3.49e-03 -3.32e-03 4.25e-03 -2.65e-03 1.14e-04  
## 3655 -7.47e-03 9.58e-03 -2.90e-03 3.46e-03 4.13e-03 -1.71e-02 1.51e-02  
## 3656 -1.74e-02 -9.66e-03 -6.03e-03 9.92e-03 1.89e-03 2.08e-03 1.41e-02  
## 3657 2.26e-02 2.32e-02 7.16e-03 -8.12e-03 -7.84e-03 1.04e-02 5.99e-03  
## 3658 -5.49e-03 -2.11e-02 -1.60e-02 9.67e-03 4.27e-03 1.71e-02 1.73e-02  
## 3659 -2.65e-03 1.05e-02 -2.52e-03 2.45e-03 4.22e-03 -3.11e-03 -4.86e-03  
## 3660 -1.96e-03 2.17e-03 -2.04e-03 -2.08e-03 3.03e-03 -2.18e-03 5.59e-04  
## 3661 6.06e-03 2.07e-02 1.47e-02 3.49e-03 2.89e-02 -6.72e-03 1.36e-03  
## 3662 -1.83e-02 -1.67e-02 4.17e-02 -3.54e-03 -2.75e-02 -1.38e-02 2.21e-02  
## 3663 2.65e-03 8.09e-03 -3.80e-03 -1.35e-02 1.22e-02 -7.29e-03 -2.08e-03  
## 3664 1.55e-02 1.26e-02 -1.15e-02 1.32e-02 1.18e-03 7.16e-03 -6.56e-03  
## 3665 7.70e-03 -3.41e-03 -5.61e-04 -1.72e-03 -3.81e-03 1.15e-03 -5.77e-03  
## 3666 9.71e-03 1.07e-02 8.94e-03 -3.95e-03 -2.04e-03 3.04e-03 5.00e-03  
## 3667 -5.84e-04 2.46e-02 2.08e-02 3.01e-02 -3.08e-02 -6.42e-03 4.01e-02  
## 3668 1.76e-03 -1.64e-02 1.73e-02 -1.63e-02 -1.08e-03 -9.64e-03 6.25e-03  
## 3669 2.00e-02 2.17e-02 6.28e-03 -5.53e-03 -7.81e-03 1.90e-02 6.27e-03  
## 3670 7.39e-03 -6.50e-03 -8.86e-04 1.57e-03 3.26e-03 -8.74e-03 -1.61e-03  
## 3671 9.93e-04 2.87e-03 -5.72e-05 1.85e-03 1.76e-03 1.42e-03 -7.17e-04  
## 3672 -1.41e-02 -1.18e-02 -3.19e-03 2.04e-03 4.08e-03 -1.36e-02 1.74e-02  
## 3673 2.42e-02 9.56e-03 -3.27e-04 -6.54e-03 -9.30e-03 4.68e-03 -2.06e-02  
## 3674 -3.64e-02 -2.38e-02 5.63e-03 -5.62e-03 -1.19e-02 3.56e-02 9.38e-03  
## 3675 1.49e-02 -1.89e-02 1.14e-02 4.21e-02 -2.95e-02 1.12e-02 -2.97e-02  
## 3676 1.51e-03 -1.48e-02 -2.53e-02 1.60e-02 -7.69e-03 -3.28e-03 7.27e-03  
## 3677 1.86e-02 -1.30e-02 9.09e-03 -3.82e-03 -3.37e-03 3.34e-03 -1.45e-02  
## 3678 8.43e-03 -5.48e-03 1.50e-03 6.51e-03 -8.98e-03 -5.98e-03 -2.92e-03  
## 3679 -2.19e-02 1.27e-02 -1.30e-02 1.26e-02 7.09e-04 9.31e-03 -7.38e-04  
## 3680 -1.97e-04 4.24e-03 -2.45e-03 -5.98e-03 6.15e-03 2.97e-03 7.27e-03  
## 3681 1.62e-02 1.31e-02 1.10e-02 -6.48e-03 -1.96e-03 -2.48e-03 4.40e-03  
## 3682 -4.88e-03 -2.10e-02 4.01e-03 1.32e-02 2.15e-02 3.39e-03 -2.42e-02  
## 3683 1.59e-03 -1.38e-02 -1.20e-02 1.43e-02 3.28e-04 5.82e-03 -6.47e-03  
## 3684 1.58e-02 1.10e-02 -2.38e-02 -6.55e-03 3.49e-03 3.35e-03 -1.20e-02  
## 3685 -2.53e-02 1.85e-02 1.36e-02 -1.28e-02 -4.19e-03 -6.68e-03 -1.85e-02  
## 3686 3.52e-04 -5.94e-03 -4.15e-03 -8.79e-03 8.89e-03 -2.59e-03 -1.03e-02  
## 3687 3.86e-02 -1.34e-02 -4.47e-03 -1.15e-02 -1.63e-02 -1.20e-02 -3.48e-02  
## 3688 -6.93e-04 -5.53e-03 -1.85e-03 5.19e-03 2.60e-03 -5.22e-04 -9.44e-03  
## 3689 -7.24e-03 3.02e-02 8.51e-03 -4.15e-03 3.80e-02 3.58e-02 -6.38e-03  
## 3690 1.57e-02 -1.63e-02 -1.23e-02 -7.07e-03 -2.30e-02 8.08e-03 -9.00e-03  
## 3691 -1.12e-02 2.17e-02 1.00e-02 4.59e-02 -3.05e-02 1.40e-02 9.66e-03  
## 3692 -1.94e-03 -1.26e-02 -6.02e-03 -5.44e-03 -1.57e-02 5.35e-03 -2.16e-03  
## 3693 -3.62e-03 -9.28e-03 -8.87e-03 1.04e-02 -4.70e-05 9.16e-03 -1.80e-03  
## 3694 4.20e-03 -3.64e-03 -1.62e-03 -6.30e-03 5.53e-03 -1.11e-03 -1.20e-03  
## 3695 -4.65e-02 -2.59e-02 -4.51e-03 -4.37e-02 5.68e-02 -1.60e-03 7.80e-03  
## 3696 6.84e-04 -1.72e-03 2.25e-04 -9.88e-04 -1.38e-03 -2.23e-03 -2.19e-03  
## 3697 7.58e-03 1.41e-02 -3.09e-02 -1.37e-02 5.01e-03 -4.30e-03 6.82e-03  
## 3698 9.41e-04 3.06e-03 1.43e-03 4.84e-03 -6.20e-03 -4.58e-03 -2.14e-06  
## 3699 -1.08e-03 6.91e-04 1.94e-04 -5.91e-05 7.90e-04 -3.11e-04 1.16e-03  
## 3700 4.24e-03 4.08e-03 -3.51e-04 6.69e-05 3.94e-03 -3.04e-03 3.68e-03  
## 3701 -5.78e-03 1.35e-02 -1.01e-02 9.36e-03 1.78e-03 1.13e-02 -6.15e-03  
## 3702 6.77e-04 -3.86e-03 -2.15e-04 2.89e-04 3.38e-03 -9.34e-03 -2.02e-03  
## 3703 -1.73e-03 2.51e-03 1.96e-04 1.03e-03 2.03e-03 -5.08e-03 4.73e-04  
## 3704 -1.43e-02 1.25e-02 -5.77e-03 3.94e-03 5.07e-03 -1.09e-02 -2.62e-02  
## 3705 1.73e-03 3.12e-03 6.11e-04 -2.99e-03 -2.74e-03 -5.27e-03 1.89e-04  
## 3706 6.19e-04 -3.15e-04 -4.90e-05 -5.44e-05 -3.96e-04 1.81e-05 -5.36e-04  
## 3707 -7.78e-04 1.36e-03 -6.85e-05 1.20e-03 7.68e-04 1.46e-03 -3.37e-05  
## 3708 2.65e-02 -1.65e-02 -3.05e-02 2.07e-02 -9.69e-03 -1.40e-02 -2.40e-02  
## 3709 3.72e-04 -3.94e-03 3.32e-04 -9.67e-05 3.98e-03 -2.35e-03 -9.82e-04  
## 3710 -2.23e-02 2.00e-02 4.28e-02 1.52e-02 -7.48e-03 4.44e-03 1.82e-02  
## 3711 -9.58e-03 8.68e-03 1.14e-02 1.75e-02 -1.18e-02 -4.02e-03 6.67e-03  
## 3712 -2.93e-03 6.16e-03 -2.76e-03 4.71e-03 1.94e-03 3.65e-03 -2.43e-03  
## 3713 3.73e-03 -1.10e-02 -1.31e-02 -1.30e-02 1.19e-02 6.35e-03 -1.99e-03  
## 3714 6.25e-04 1.49e-03 -1.75e-04 9.64e-04 9.22e-04 -2.37e-04 -5.14e-05  
## 3715 4.51e-04 -3.02e-03 -1.02e-03 2.60e-03 8.61e-04 3.39e-03 -6.72e-04  
## 3716 -2.95e-02 2.63e-02 3.74e-03 -6.68e-03 -1.31e-02 3.29e-02 6.22e-03  
## 3717 -9.23e-04 3.14e-03 8.75e-04 5.13e-03 -6.05e-03 -1.97e-03 5.45e-03  
## 3718 6.07e-03 -4.37e-03 1.02e-04 -3.38e-03 -4.21e-03 -4.78e-04 -4.11e-04  
## 3719 -5.16e-04 -5.30e-04 8.87e-05 6.60e-05 5.49e-04 -1.14e-03 7.17e-04  
## 3720 1.79e-02 1.26e-02 8.66e-03 -3.54e-03 -2.88e-03 7.70e-05 -1.47e-02  
## 3721 -1.24e-03 -1.51e-02 1.07e-02 -8.02e-03 -1.82e-03 -5.68e-03 8.19e-03  
## 3722 -1.36e-03 6.90e-03 6.55e-03 -3.33e-03 -1.18e-03 -4.07e-03 5.30e-03  
## 3723 -2.71e-03 -1.26e-03 4.84e-04 -1.64e-03 -3.61e-04 -4.50e-04 2.34e-03  
## 3724 1.37e-04 -7.36e-04 1.79e-04 -8.12e-04 -4.56e-04 -1.56e-03 -2.22e-04  
## 3725 -2.21e-02 2.10e-02 2.73e-02 2.37e-02 -2.10e-02 -2.44e-03 8.08e-03  
## 3726 -2.76e-02 1.85e-02 -1.32e-02 5.73e-03 4.69e-03 -3.94e-03 2.14e-02  
## 3727 8.09e-03 -5.15e-03 8.26e-04 -2.95e-03 -5.12e-03 -7.22e-03 -9.45e-03  
## 3728 -3.51e-03 -2.30e-03 1.02e-03 4.03e-03 -4.44e-03 -2.90e-03 4.87e-03  
## 3729 -1.24e-03 -3.67e-03 8.13e-03 6.46e-03 -1.36e-03 -5.36e-03 1.46e-06  
## 3730 2.28e-04 -2.15e-02 -2.39e-02 -4.50e-02 2.90e-02 -3.19e-03 -1.44e-02  
## 3731 7.55e-03 -4.90e-03 -7.60e-04 2.16e-03 2.91e-03 -1.10e-02 -6.90e-04  
## 3732 5.41e-03 1.81e-02 9.19e-03 -6.21e-03 -5.02e-03 1.14e-02 3.47e-02  
## 3733 -5.22e-03 9.97e-03 -7.25e-03 8.86e-03 2.54e-03 1.23e-02 1.42e-02  
## 3734 2.12e-03 4.07e-03 -9.39e-04 2.58e-03 2.38e-03 -2.01e-03 -6.59e-03  
## 3735 -1.65e-02 -1.90e-02 -9.01e-03 -1.79e-02 -2.38e-02 -6.94e-03 2.44e-02  
## 3736 4.98e-05 -1.62e-03 5.41e-04 -2.59e-04 2.03e-03 2.35e-03 -5.89e-04  
## 3737 1.63e-02 -9.35e-03 -6.95e-03 9.58e-03 1.67e-03 9.32e-03 -4.48e-03  
## 3738 5.14e-03 -2.27e-02 -6.43e-03 -3.43e-02 4.95e-02 1.33e-02 8.75e-03  
## 3739 -2.24e-02 1.06e-02 -6.30e-03 7.26e-03 3.93e-03 -5.08e-03 1.68e-02  
## 3740 -4.38e-03 -1.19e-02 8.95e-03 -4.94e-03 -3.03e-03 -8.53e-03 -7.91e-03  
## 3741 1.16e-02 1.28e-02 1.21e-02 2.73e-02 -1.68e-02 6.85e-03 -1.49e-02  
## 3742 1.81e-02 -1.11e-02 -1.25e-03 -1.11e-02 -1.25e-02 -5.19e-03 -2.45e-02  
## 3743 -2.95e-06 4.27e-04 -4.00e-05 4.40e-04 2.36e-04 6.47e-06 -8.56e-05  
## 3744 3.19e-04 -6.48e-03 -1.26e-02 -4.49e-03 2.12e-03 -2.15e-03 6.08e-03  
## 3745 2.35e-02 -1.01e-02 2.83e-02 -1.76e-02 1.12e-02 -2.84e-03 -9.22e-03  
## 3746 1.05e-02 6.71e-03 -6.62e-03 -7.25e-03 6.87e-03 -3.84e-04 -1.94e-03  
## 3747 1.38e-03 -1.81e-03 9.17e-05 -1.91e-03 -1.01e-03 -1.54e-03 -2.00e-04  
## 3748 -1.52e-02 9.71e-03 -2.94e-03 1.78e-03 4.23e-03 -1.35e-02 1.60e-02  
## 3749 5.81e-03 5.88e-03 -8.45e-04 1.42e-03 3.30e-03 -8.54e-03 -1.75e-03  
## 3750 1.40e-02 -1.13e-02 9.57e-03 -4.43e-03 -2.23e-03 2.26e-03 4.57e-03  
## 3751 2.77e-02 -1.64e-02 9.97e-03 -3.95e-03 -5.78e-03 3.08e-02 -2.61e-02  
## 3752 -2.02e-03 -2.02e-03 -1.58e-04 1.75e-03 8.78e-04 -4.99e-05 2.25e-04  
## 3753 2.19e-03 -8.63e-03 -1.87e-03 2.96e-03 3.99e-03 -9.87e-03 -3.66e-03  
## 3754 -2.49e-03 -1.12e-02 9.31e-03 -5.80e-03 -2.14e-03 -2.23e-03 8.56e-03  
## 3755 -1.04e-02 1.79e-02 -1.26e-02 6.85e-03 3.87e-03 -2.83e-03 1.68e-02  
## 3756 -1.13e-03 9.31e-04 6.65e-04 8.87e-04 -1.39e-03 3.01e-04 1.59e-03  
## 3757 -5.20e-03 1.19e-02 -7.02e-03 6.21e-03 3.56e-03 -4.54e-03 -2.52e-02  
## 3758 7.70e-03 -1.17e-02 1.10e-02 2.35e-02 -1.54e-02 3.01e-04 -1.20e-02  
## 3759 4.79e-03 -5.58e-03 -1.00e-03 2.68e-03 3.29e-03 -8.54e-03 -9.23e-03  
## 3760 1.15e-02 -7.92e-03 -2.19e-03 2.80e-03 3.65e-03 -8.80e-03 -1.45e-02  
## 3761 -1.67e-02 1.89e-02 -4.94e-02 -1.20e-02 3.07e-03 1.18e-02 1.40e-02  
## 3762 -4.41e-04 9.60e-04 -7.65e-04 -8.90e-04 1.22e-03 -1.78e-03 3.50e-04  
## 3763 -4.77e-03 -1.00e-02 -1.23e-02 -1.28e-02 1.09e-02 6.23e-03 -9.93e-04  
## 3764 1.18e-02 -5.32e-03 -1.54e-03 -2.35e-03 -6.12e-03 6.35e-03 -8.69e-03  
## 3765 -1.09e-05 1.99e-03 7.57e-04 2.73e-03 -3.47e-03 -2.58e-03 -8.67e-04  
## 3766 9.35e-03 -1.13e-02 7.84e-03 -3.66e-03 -3.34e-03 -1.51e-03 -1.05e-02  
## 3767 -8.88e-03 -1.21e-02 9.91e-03 2.22e-02 -1.51e-02 -5.88e-03 -8.44e-03  
## 3768 3.65e-02 2.11e-02 8.98e-03 -4.55e-03 -6.62e-03 3.11e-02 -3.09e-02  
## 3769 7.38e-03 7.49e-03 1.98e-02 1.14e-03 -1.41e-02 1.82e-03 -1.59e-02  
## 3770 2.07e-03 -1.43e-02 -2.89e-02 -1.98e-02 8.09e-03 -6.18e-03 1.02e-02  
## 3771 -1.04e-02 7.02e-03 -5.17e-03 -1.20e-02 1.13e-02 4.65e-03 7.10e-06  
## 3772 -6.05e-04 2.04e-03 -3.20e-04 6.98e-04 1.68e-03 -8.72e-04 -8.00e-04  
## 3773 -6.55e-03 1.22e-02 -5.56e-03 4.71e-03 4.28e-03 -1.57e-02 -2.41e-02  
## 3774 -1.67e-02 -3.47e-02 -1.06e-01 -1.10e-02 5.24e-02 4.07e-03 5.37e-02  
## 3775 7.29e-04 -6.90e-04 -5.56e-05 1.92e-04 7.84e-04 -1.83e-04 -2.07e-04  
## 3776 9.63e-06 2.06e-03 -2.56e-04 1.32e-03 1.35e-03 8.00e-04 7.00e-06  
## 3777 -5.31e-03 -2.03e-02 -7.29e-03 3.31e-02 -4.68e-02 6.67e-03 -1.04e-02  
## 3778 6.03e-03 -9.74e-03 -1.24e-02 -9.56e-03 9.01e-03 1.66e-03 -2.20e-03  
## 3779 2.16e-03 -1.24e-02 -2.46e-02 -1.59e-02 6.74e-03 -8.02e-03 8.18e-03  
## 3780 -9.83e-04 -9.78e-03 -1.66e-02 1.49e-02 -5.91e-03 -3.85e-04 7.62e-03  
## 3781 -1.19e-02 1.52e-02 -1.07e-02 -8.33e-03 -2.15e-02 -1.56e-03 -1.88e-03  
## 3782 -4.38e-03 -9.24e-03 -6.36e-03 9.54e-03 -1.12e-05 6.88e-03 1.27e-02  
## 3783 -5.06e-04 -3.31e-02 1.70e-02 3.78e-02 -4.62e-02 4.11e-02 -5.17e-02  
## 3784 4.79e-03 5.13e-03 -9.14e-04 1.80e-03 2.81e-03 -3.75e-03 -1.38e-03  
## 3785 -1.63e-02 -2.82e-02 4.40e-04 -8.51e-03 -1.85e-02 6.80e-02 3.07e-03  
## 3786 -2.68e-02 1.75e-02 -1.27e-02 6.42e-03 4.28e-03 -2.05e-03 2.06e-02  
## 3787 8.74e-03 1.26e-02 -2.52e-02 -1.24e-02 5.31e-03 -8.66e-03 -1.27e-02  
## 3788 6.18e-03 -5.75e-03 -9.54e-04 1.95e-03 2.78e-03 -3.83e-03 -1.26e-03  
## 3789 8.73e-03 1.10e-02 -7.71e-03 -2.29e-02 1.61e-02 -3.72e-03 -7.49e-03  
## 3790 -2.17e-02 1.88e-02 -1.44e-02 9.12e-03 4.69e-03 9.32e-03 2.18e-02  
## 3791 3.30e-03 1.99e-02 1.07e-02 -9.76e-03 -5.00e-03 5.25e-03 3.83e-02  
## 3792 8.24e-03 7.19e-03 -5.23e-03 -9.79e-03 9.96e-03 -6.72e-04 -1.39e-02  
## 3793 -1.42e-03 1.35e-02 -1.14e-02 1.29e-02 7.19e-04 1.07e-02 -4.93e-03  
## 3794 -3.37e-02 2.71e-02 7.21e-03 -2.09e-02 -8.58e-03 -2.26e-02 5.32e-02  
## 3795 -8.63e-04 -7.55e-04 -1.67e-05 1.79e-03 -1.67e-03 -2.82e-04 3.68e-04  
## 3796 4.13e-05 1.41e-02 -3.21e-02 -1.24e-02 5.15e-03 -6.79e-03 7.91e-03  
## 3797 5.81e-03 5.87e-03 -8.40e-04 1.42e-03 3.30e-03 -8.53e-03 -1.76e-03  
## 3798 3.97e-02 -2.66e-02 2.20e-02 3.26e-02 -3.80e-02 1.91e-02 -7.52e-03  
## 3799 -1.87e-02 1.72e-02 -1.33e-02 8.00e-03 4.71e-03 2.73e-03 -7.06e-03  
## 3800 1.87e-02 -1.07e-02 -2.37e-02 -6.40e-03 3.25e-03 3.26e-03 -1.21e-02  
## 3801 -1.45e-02 -1.67e-02 3.56e-02 1.38e-02 -5.40e-03 4.06e-03 1.73e-02  
## 3802 -1.72e-02 -1.40e-02 1.63e-02 2.18e-02 -1.58e-02 -6.29e-03 1.08e-02  
## 3803 8.58e-03 -5.39e-03 5.19e-04 -5.22e-03 -5.06e-03 -7.62e-03 -1.12e-03  
## 3804 4.37e-06 3.59e-05 -8.44e-06 3.41e-05 2.05e-05 6.74e-05 5.49e-06  
## 3805 -7.34e-03 9.45e-03 -6.31e-04 -1.06e-02 -1.12e-02 -1.25e-02 -3.06e-03  
## 3806 6.11e-03 9.42e-03 -1.03e-03 2.00e-03 4.38e-03 -1.52e-03 -5.24e-03  
## 3807 4.76e-03 4.25e-03 -7.45e-04 2.12e-03 2.33e-03 -5.69e-03 -5.15e-04  
## 3808 -4.84e-03 4.47e-03 -2.92e-03 7.80e-04 -6.32e-03 -6.47e-03 1.14e-03  
## 3809 -4.78e-03 -3.35e-03 1.68e-03 3.18e-03 -4.78e-03 1.10e-03 5.28e-03  
## 3810 1.00e-02 1.12e-02 9.36e-03 -4.44e-03 -2.11e-03 2.70e-03 5.44e-03  
## 3811 2.40e-03 3.04e-03 7.91e-03 4.75e-04 -4.65e-03 -2.89e-03 -5.02e-03  
## 3812 7.44e-04 9.83e-04 9.18e-05 -8.98e-04 -6.35e-04 -1.65e-03 -3.62e-04  
## 3813 1.09e-03 -3.66e-03 -3.04e-03 -4.65e-03 5.61e-03 -5.69e-03 5.14e-04  
## 3814 -8.54e-03 5.62e-03 -3.06e-03 5.15e-03 2.22e-03 3.43e-03 1.09e-02  
## 3815 7.76e-03 4.37e-03 7.91e-03 -2.90e-03 2.22e-03 -8.02e-04 -1.80e-03  
## 3816 9.58e-03 9.37e-03 -1.97e-02 -6.21e-03 3.32e-03 4.04e-03 5.71e-03  
## 3817 2.69e-02 -1.99e-02 -1.26e-02 -1.63e-02 -2.56e-02 1.16e-02 -1.72e-02  
## 3818 -3.49e-03 -6.18e-03 2.65e-03 6.02e-03 -8.97e-03 1.49e-03 8.39e-03  
## 3819 -3.61e-03 1.38e-02 -6.66e-03 4.43e-03 4.48e-03 -4.38e-03 -8.66e-03  
## 3820 5.23e-04 1.89e-03 -2.71e-04 6.03e-04 1.44e-03 -2.49e-03 -7.50e-04  
## 3821 1.96e-03 -4.96e-03 -6.49e-05 1.37e-03 3.16e-03 -9.84e-03 -2.30e-04  
## 3822 1.22e-04 2.89e-03 1.17e-03 3.62e-03 -4.96e-03 -5.59e-03 -1.30e-03  
## 3823 -3.40e-04 -1.54e-02 -2.48e-02 1.72e-02 -8.92e-03 -2.20e-03 7.12e-03  
## 3824 -8.53e-03 -9.38e-03 9.89e-03 1.67e-02 -1.11e-02 -3.44e-03 7.48e-03  
## 3825 1.16e-02 -1.66e-02 -3.00e-02 2.13e-02 -1.25e-02 7.69e-03 5.42e-03  
## 3826 7.50e-03 -4.96e-03 -3.50e-03 -6.93e-03 7.02e-03 1.05e-03 -9.71e-03  
## 3827 1.74e-02 1.42e-02 -7.57e-03 8.66e-03 3.97e-03 1.62e-04 -3.41e-02  
## 3828 -2.31e-02 2.93e-02 5.47e-03 3.26e-03 3.39e-02 -1.54e-02 1.21e-03  
## 3829 1.37e-03 -2.14e-03 2.77e-04 -1.46e-03 -1.81e-03 -8.07e-04 2.36e-04  
## 3830 9.20e-05 4.54e-04 2.50e-04 5.11e-04 -5.74e-04 -4.25e-04 6.33e-04  
## 3831 -1.57e-02 1.22e-02 6.63e-03 -5.77e-03 -5.22e-03 -8.74e-03 -1.01e-02  
## 3832 1.53e-02 -1.81e-02 -1.82e-02 1.61e-02 4.68e-04 6.51e-03 -1.23e-02  
## 3833 6.56e-03 -4.55e-03 1.79e-04 -3.70e-03 -4.36e-03 -1.64e-03 -5.67e-04  
## 3834 -1.50e-04 3.65e-04 8.69e-04 -3.39e-04 4.11e-04 5.01e-04 -4.42e-04  
## 3835 -6.26e-03 -1.48e-02 -2.43e-02 1.77e-02 -9.24e-03 -4.42e-03 1.10e-02  
## 3836 -4.64e-03 -1.74e-02 -1.96e-02 -2.81e-02 2.06e-02 5.65e-03 -6.75e-03  
## 3837 2.65e-02 -1.19e-02 -2.53e-02 2.29e-02 -1.02e-02 4.15e-03 -1.50e-02  
## 3838 -5.10e-02 2.39e-02 7.33e-03 -2.31e-02 -8.87e-03 -1.10e-03 5.19e-02  
## 3839 1.09e-02 -1.35e-02 9.78e-03 -5.20e-03 -3.05e-03 -1.37e-03 -1.32e-02  
## 3840 -6.56e-04 -1.20e-02 -2.11e-03 -1.04e-02 -1.33e-02 -1.00e-02 -3.30e-03  
## 3841 1.15e-02 6.52e-03 -1.80e-03 2.49e-03 2.92e-03 -6.80e-03 -2.24e-03  
## 3842 -3.85e-03 -1.10e-02 -3.31e-03 2.76e-03 4.69e-03 -5.73e-03 -5.21e-03  
## 3843 -1.26e-02 2.38e-02 2.49e-02 2.71e-02 -3.49e-02 3.71e-02 1.80e-04  
## 3844 -7.44e-04 -5.00e-04 1.56e-04 6.24e-04 -7.55e-04 5.91e-05 1.41e-04  
## 3845 1.29e-04 -4.13e-04 3.37e-05 -1.67e-04 -3.38e-04 3.39e-04 1.13e-04  
## 3846 1.42e-02 7.15e-03 -1.68e-03 2.01e-03 3.21e-03 -1.41e-02 -2.79e-03  
## 3847 -2.02e-02 9.99e-03 -9.26e-03 1.06e-02 1.04e-03 7.75e-03 -4.45e-04  
## 3848 1.85e-02 -7.71e-03 -8.78e-03 -1.12e-02 1.00e-02 8.73e-04 -3.26e-03  
## 3849 9.05e-04 1.31e-03 -1.34e-04 -4.65e-04 -1.62e-03 2.26e-03 -2.27e-04  
## 3850 7.06e-03 8.00e-03 -9.67e-03 -9.54e-03 8.33e-03 -8.55e-04 -1.03e-03  
## 3851 7.36e-03 5.25e-03 -9.20e-04 1.78e-03 2.60e-03 -8.24e-03 -1.26e-03  
## 3852 3.35e-03 1.71e-03 -3.96e-04 1.65e-03 6.47e-04 4.85e-04 -6.36e-04  
## 3853 -2.70e-03 -9.09e-03 -8.00e-03 1.11e-02 1.33e-03 -3.30e-03 -1.02e-03  
## 3854 -1.39e-02 1.00e-02 -1.89e-03 1.80e-02 -2.55e-02 -7.25e-03 1.82e-02  
## 3855 1.48e-03 -1.09e-02 7.07e-04 2.11e-02 -2.39e-02 -2.11e-03 1.41e-02  
## 3856 9.03e-04 -1.81e-03 1.07e-04 1.14e-04 1.71e-03 -4.90e-03 2.04e-03  
## 3857 3.05e-02 2.10e-02 -2.32e-02 -3.41e-02 2.42e-02 1.05e-02 -1.96e-02  
## 3858 -6.50e-03 1.37e-02 1.39e-02 -1.17e-02 -1.43e-03 -9.39e-03 8.20e-03  
## 3859 1.25e-02 -7.40e-03 1.65e-03 1.02e-02 -1.48e-02 -1.03e-02 -1.35e-02  
## 3860 7.73e-04 -3.16e-03 4.90e-04 -2.18e-03 -2.44e-03 -5.15e-03 -4.00e-03  
## 3861 6.69e-03 -7.79e-03 -4.36e-03 -1.33e-02 1.30e-02 -8.53e-03 -3.78e-03  
## 3862 -5.66e-04 1.79e-02 1.02e-02 1.22e-02 2.39e-02 2.65e-03 -2.32e-02  
## 3863 -6.27e-03 1.18e-02 -1.34e-02 -1.53e-02 1.47e-02 -3.62e-03 -2.40e-03  
## 3864 7.15e-04 -4.86e-03 -4.14e-03 -5.22e-03 6.21e-03 7.87e-03 7.88e-03  
## 3865 -7.86e-03 -8.68e-03 7.43e-03 -4.27e-03 -1.16e-03 -3.45e-03 7.35e-03  
## 3866 1.05e-02 1.73e-02 -5.31e-03 -1.42e-02 -2.17e-02 1.79e-02 1.72e-02  
## 3867 1.16e-03 7.86e-04 -7.99e-05 2.53e-04 7.22e-04 -2.10e-04 -1.77e-03  
## 3868 -4.81e-03 -1.22e-02 -4.74e-03 4.31e-03 3.69e-03 -6.76e-03 -5.07e-03  
## 3869 -1.32e-02 -1.93e-02 -4.64e-02 7.80e-05 3.56e-02 5.08e-03 7.25e-03  
## 3870 6.20e-03 1.98e-02 -1.86e-02 1.35e-02 2.91e-03 8.24e-03 -1.25e-02  
## 3871 -1.82e-02 2.08e-02 5.13e-03 1.27e-02 2.29e-02 1.15e-02 -2.94e-02  
## 3872 -3.86e-04 -6.52e-04 2.15e-04 -1.33e-04 7.95e-04 1.25e-03 -1.83e-04  
## 3873 2.50e-02 -1.91e-02 6.38e-03 -5.26e-03 -8.37e-03 1.93e-02 6.66e-03  
## 3874 1.54e-02 9.87e-03 -1.38e-03 -5.26e-03 -1.15e-02 -2.54e-03 -1.99e-02  
## 3875 3.41e-03 -5.74e-03 2.27e-03 6.15e-03 -8.88e-03 -1.23e-03 6.16e-03  
## 3876 -5.68e-03 1.16e-02 -4.96e-03 3.79e-03 4.16e-03 -1.26e-02 -5.37e-03  
## 3877 -4.63e-03 -1.62e-02 -1.30e-02 9.17e-03 3.84e-03 2.31e-03 -6.95e-03  
## 3878 6.51e-03 -1.68e-02 -1.61e-02 -3.19e-02 2.18e-02 6.16e-03 -8.77e-03  
## 3879 -1.90e-02 -2.04e-02 -1.71e-02 8.08e-03 3.76e-03 -4.51e-03 -9.26e-03  
## 3880 -1.37e-05 -6.05e-03 1.10e-02 -3.87e-03 3.85e-03 -7.49e-03 8.44e-04  
## 3881 2.45e-02 -1.67e-02 1.12e-02 -7.20e-03 -5.31e-03 -5.23e-03 -2.05e-02  
## 3882 1.27e-02 1.25e-02 8.54e-03 -4.59e-03 -2.80e-03 -8.46e-04 -1.39e-02  
## 3883 1.47e-03 3.02e-03 -1.88e-04 1.35e-03 1.92e-03 -4.45e-03 -1.74e-04  
## 3884 -1.11e-02 2.94e-02 2.88e-02 2.75e-02 -3.10e-02 2.44e-02 -4.66e-04  
## 3885 -3.86e-03 3.95e-03 -2.41e-03 -5.91e-03 5.97e-03 -1.12e-04 -5.59e-03  
## 3886 6.08e-03 -4.27e-03 -8.97e-04 2.10e-03 1.99e-03 -1.60e-03 -9.03e-04  
## 3887 -2.16e-03 -1.39e-02 3.31e-02 8.40e-03 -2.38e-03 -6.35e-03 -7.68e-03  
## 3888 -3.29e-04 -6.75e-04 -4.85e-04 -6.72e-04 9.12e-04 -8.41e-04 2.90e-04  
## 3889 -4.49e-04 -1.61e-03 1.45e-06 2.91e-04 1.40e-03 -1.26e-03 1.90e-03  
## 3890 5.53e-04 -1.09e-03 7.34e-05 -5.52e-04 -9.46e-04 9.50e-04 1.97e-04  
## 3891 -2.01e-04 4.11e-04 1.31e-04 -8.00e-05 5.14e-04 6.62e-04 -1.20e-04  
## 3892 1.27e-03 -1.86e-03 -6.23e-04 1.81e-03 9.09e-04 2.50e-03 -2.69e-03  
## 3893 1.89e-02 -1.13e-02 2.01e-02 -1.07e-02 6.67e-03 2.15e-03 -7.06e-03  
## 3894 6.56e-04 -1.16e-03 1.00e-04 -6.34e-04 -1.00e-03 6.79e-04 1.67e-04  
## 3895 -8.43e-04 3.36e-03 -3.03e-03 -3.31e-03 4.17e-03 -6.19e-03 7.55e-04  
## 3896 -1.18e-02 -1.13e-02 -4.01e-03 2.81e-03 4.62e-03 -1.51e-02 1.69e-02  
## 3897 -8.60e-03 6.72e-03 -5.11e-03 6.68e-03 9.75e-04 1.07e-02 1.12e-02  
## 3898 2.99e-03 2.58e-03 -1.42e-04 -1.74e-03 -2.86e-03 3.76e-03 -8.02e-05  
## 3899 1.77e-02 1.91e-02 8.81e-03 -6.10e-03 -6.53e-03 2.67e-02 -2.62e-02  
## 3900 1.09e-02 1.27e-02 1.07e-02 2.65e-02 -1.77e-02 9.02e-04 -1.37e-02  
## 3901 -8.65e-03 1.32e-02 -6.72e-03 7.59e-03 3.88e-03 1.75e-02 1.48e-02  
## 3902 3.60e-03 -4.28e-03 9.91e-03 -3.60e-03 3.72e-03 -8.38e-03 -2.55e-05  
## 3903 -5.07e-04 1.90e-03 1.39e-04 8.30e-04 1.46e-03 -4.48e-03 2.79e-04  
## 3904 -1.23e-02 1.88e-02 1.93e-02 -2.05e-02 2.75e-04 -7.91e-03 8.22e-03  
## 3905 1.39e-02 -2.41e-02 6.57e-03 -1.25e-02 -1.10e-02 -5.47e-03 7.61e-03  
## 3906 4.62e-04 -1.04e-03 -2.18e-04 4.83e-05 -1.24e-03 -1.28e-03 2.09e-04  
## 3907 5.54e-04 -2.07e-03 1.14e-03 2.33e-03 -3.45e-03 -4.58e-03 2.30e-03  
## 3908 -1.86e-04 1.31e-03 -2.34e-04 1.03e-03 8.29e-04 1.68e-03 1.24e-04  
## 3909 -5.87e-03 -5.41e-03 -4.96e-03 -6.43e-03 6.65e-03 2.15e-03 9.76e-03  
## 3910 -2.96e-02 1.56e-02 -6.19e-03 -1.67e-02 -1.99e-02 -2.97e-03 2.23e-02  
## 3911 2.80e-02 -1.26e-02 -3.01e-02 -7.67e-03 3.11e-03 3.98e-03 -1.45e-02  
## 3912 2.36e-03 -1.33e-02 7.98e-03 9.11e-03 1.82e-02 -7.30e-03 -1.49e-02  
## 3913 -5.96e-03 8.34e-03 8.07e-03 -4.86e-03 -1.34e-03 -1.25e-03 7.47e-03  
## 3914 -6.27e-03 2.33e-03 -1.58e-03 3.44e-03 4.91e-04 -9.78e-04 1.40e-03  
## 3915 9.68e-03 -7.48e-03 -5.23e-03 -1.32e-02 1.09e-02 3.86e-03 -1.53e-02  
## 3916 -1.03e-02 1.16e-02 1.95e-02 -9.64e-03 5.56e-03 5.70e-03 -2.07e-03  
## 3917 1.14e-02 -1.06e-02 8.09e-03 -3.23e-03 -2.22e-03 -4.16e-03 -1.06e-02  
## 3918 2.95e-02 2.22e-02 1.29e-02 5.11e-03 2.84e-02 -3.97e-05 -4.27e-04  
## 3919 2.16e-04 -5.94e-03 -3.37e-03 -9.53e-03 8.50e-03 1.62e-03 -9.64e-03  
## 3920 -8.85e-03 9.78e-03 -5.68e-03 4.19e-03 3.90e-03 -4.94e-03 1.42e-02  
## 3921 -5.18e-02 -2.57e-02 1.24e-02 5.21e-02 -3.77e-02 4.76e-02 8.00e-03  
## 3922 1.37e-02 -1.85e-02 -2.04e-02 -3.30e-02 2.22e-02 7.89e-03 1.74e-02  
## 3923 -4.54e-03 3.59e-03 -8.79e-04 -1.25e-03 -4.49e-03 2.23e-03 6.22e-04  
## 3924 2.65e-03 -3.56e-03 -1.42e-03 3.45e-04 -4.81e-03 -1.34e-03 1.60e-04  
## 3925 1.44e-02 -6.51e-03 -3.66e-03 -1.28e-02 9.91e-03 5.63e-03 -3.66e-03  
## 3926 3.28e-03 9.90e-03 -2.07e-02 -7.10e-03 3.76e-03 1.54e-03 7.83e-03  
## 3927 6.08e-03 4.80e-03 -8.68e-04 1.81e-03 2.45e-03 -5.25e-03 -1.27e-03  
## 3928 -2.33e-03 -5.42e-03 1.96e-03 7.93e-03 -1.05e-02 -4.95e-03 9.20e-03  
## 3929 7.96e-04 2.86e-03 1.20e-03 3.39e-03 -4.81e-03 -7.57e-03 -1.37e-03  
## 3930 2.14e-02 9.51e-03 -1.77e-03 3.92e-03 3.09e-03 1.13e-03 -7.86e-03  
## 3931 1.48e-02 -6.91e-03 -1.81e-03 2.32e-03 3.15e-03 -1.12e-02 -2.55e-03  
## 3932 -3.78e-03 -1.01e-02 -2.07e-03 2.80e-03 4.56e-03 -4.51e-03 -3.36e-03  
## 3933 1.26e-02 1.40e-02 2.30e-03 -1.99e-02 3.16e-02 -3.40e-03 -1.45e-02  
## 3934 -1.43e-02 1.12e-02 -7.69e-03 6.05e-03 2.97e-03 -9.10e-03 1.85e-02  
## 3935 1.39e-02 5.85e-03 -2.25e-04 -5.22e-03 -5.97e-03 -1.02e-02 -1.56e-03  
## 3936 1.01e-02 -1.86e-02 7.35e-03 -4.95e-03 -7.27e-03 2.15e-02 1.07e-02  
## 3937 -1.61e-02 1.16e-02 3.25e-02 6.84e-03 -1.61e-03 -1.39e-02 -6.28e-03  
## 3938 2.80e-03 -3.65e-03 6.88e-04 -3.21e-03 -3.02e-03 -5.77e-03 1.92e-04  
## 3939 1.00e-02 2.36e-02 4.35e-03 -5.37e-03 -1.04e-02 2.14e-02 -3.47e-02  
## 3940 -2.89e-02 2.06e-02 5.48e-03 -8.76e-03 -8.20e-03 -7.30e-03 -2.07e-02  
## 3941 5.27e-03 -8.65e-03 -2.06e-03 3.57e-03 3.58e-03 -3.90e-03 -4.26e-03  
## 3942 -1.08e-02 -7.88e-03 -3.40e-03 -7.09e-04 -9.72e-03 -1.18e-03 1.29e-02  
## 3943 -1.68e-03 -9.63e-03 6.36e-04 1.53e-02 -1.99e-02 3.33e-03 -1.57e-02  
## 3944 1.68e-02 -1.46e-02 -2.91e-02 -2.15e-02 8.56e-03 -8.06e-03 4.96e-03  
## 3945 -2.16e-04 -4.59e-03 1.74e-03 5.17e-03 -7.66e-03 -1.68e-03 6.68e-03  
## 3946 -7.91e-04 -2.26e-03 -1.42e-03 3.24e-03 3.91e-04 -2.66e-03 2.35e-04  
## 3947 1.85e-02 1.45e-02 -3.17e-02 -9.93e-03 4.28e-03 -1.69e-03 -1.41e-02  
## 3948 -2.34e-03 2.34e-02 3.94e-02 -3.39e-02 1.50e-02 4.95e-03 -1.66e-02  
## 3949 -4.45e-03 1.35e-02 -1.40e-02 -2.46e-02 1.82e-02 4.32e-03 1.99e-02  
## 3950 -1.65e-02 7.94e-03 1.04e-02 1.65e-02 -1.09e-02 -6.72e-03 8.90e-03  
## 3951 -1.74e-02 6.56e-03 -7.06e-03 -7.53e-03 9.21e-03 -6.85e-03 3.00e-03  
## 3952 1.00e-02 -1.50e-02 1.62e-02 2.63e-02 -1.75e-02 9.98e-03 4.86e-03  
## 3953 -2.54e-03 3.60e-03 -2.17e-03 4.55e-03 8.11e-04 3.64e-03 -1.56e-04  
## 3954 5.04e-03 -1.28e-02 -3.46e-03 4.48e-03 4.86e-03 -3.28e-03 -9.29e-03  
## 3955 -8.22e-03 -1.33e-02 -7.73e-03 4.15e-03 4.23e-03 -1.24e-02 1.76e-02  
## 3956 2.22e-03 8.38e-03 -1.53e-02 1.43e-02 -5.53e-03 2.26e-03 5.78e-03  
## 3957 1.65e-03 3.12e-03 5.00e-04 -3.63e-03 -1.91e-03 -7.83e-03 -1.33e-03  
## 3958 -1.81e-04 -3.57e-04 -7.56e-05 5.48e-05 -4.28e-04 -4.55e-04 1.65e-04  
## 3959 -1.04e-03 -1.29e-02 2.19e-02 -1.16e-02 7.84e-03 -8.86e-03 -3.14e-03  
## 3960 6.75e-06 -4.79e-04 1.43e-04 -6.99e-05 5.62e-04 7.57e-04 -1.32e-04  
## 3961 1.02e-03 -2.18e-03 -7.94e-04 -3.71e-03 3.51e-03 7.84e-04 1.63e-04  
## 3962 4.49e-04 3.28e-03 1.45e-03 3.79e-03 -5.54e-03 -8.58e-03 -1.67e-03  
## 3963 -1.51e-02 1.79e-02 -8.49e-03 -1.75e-02 -2.25e-02 -1.19e-02 2.19e-02  
## 3964 4.27e-05 2.10e-04 3.23e-05 -9.29e-05 -2.20e-04 7.60e-05 -5.56e-06  
## 3965 -4.32e-03 2.87e-02 3.08e-03 -2.05e-02 -1.99e-02 4.13e-02 4.03e-02  
## 3966 -3.88e-04 4.61e-03 -2.26e-03 4.21e-03 1.33e-03 5.58e-03 -6.33e-04  
## 3967 7.36e-03 -5.24e-03 -7.40e-04 -1.83e-03 -6.09e-03 2.01e-03 8.18e-03  
## 3968 4.18e-03 6.87e-03 -4.25e-03 -1.03e-02 1.04e-02 1.62e-03 -1.38e-02  
## 3969 7.18e-03 1.10e-02 -2.18e-02 -1.09e-02 5.50e-03 -9.27e-04 5.68e-03  
## 3970 2.11e-02 1.94e-02 1.05e-02 -5.38e-03 -5.18e-03 3.00e-02 -2.72e-02  
## 3971 3.06e-04 1.36e-03 -8.67e-04 -1.44e-03 1.83e-03 -1.12e-03 2.14e-03  
## 3972 -2.25e-02 2.08e-02 -1.42e-02 7.71e-03 6.14e-03 1.91e-02 1.98e-02  
## 3973 -2.31e-04 -4.63e-04 6.66e-05 3.29e-05 4.38e-04 -8.14e-04 5.51e-04  
## 3974 -1.23e-02 -1.44e-02 1.40e-02 -1.18e-02 -1.42e-03 -1.02e-02 1.06e-02  
## 3975 -2.43e-02 -2.15e-02 4.49e-02 1.69e-02 -8.23e-03 3.53e-03 -1.21e-02  
## 3976 1.41e-03 -1.91e-03 -4.03e-04 -4.95e-03 4.05e-03 -6.32e-03 2.39e-03  
## 3977 2.47e-02 -1.70e-02 1.02e-02 -4.38e-03 -5.73e-03 3.49e-02 -2.64e-02  
## 3978 -8.85e-04 2.90e-03 2.10e-04 -1.24e-04 2.68e-03 -5.96e-03 2.97e-03  
## 3979 1.13e-02 1.02e-02 2.13e-02 -1.51e-02 8.86e-03 -5.54e-03 -5.71e-03  
## 3980 1.50e-03 -9.18e-04 6.24e-04 1.05e-03 -1.35e-03 5.49e-04 -5.02e-04  
## 3981 1.39e-02 1.23e-02 1.07e-02 -6.17e-03 -1.79e-03 -1.16e-04 3.72e-03  
## 3982 2.49e-03 1.57e-03 -4.82e-04 1.64e-03 6.33e-04 6.92e-04 -2.83e-03  
## 3983 5.14e-03 -1.23e-02 -6.90e-04 1.86e-02 -2.74e-02 -9.73e-03 1.58e-02  
## 3984 -1.37e-02 2.05e-02 -1.70e-02 1.11e-02 3.61e-03 1.41e-02 2.19e-02  
## 3985 -1.38e-02 1.11e-02 8.85e-03 -4.73e-03 -2.58e-03 -8.34e-03 1.04e-02  
## 3986 1.82e-04 1.72e-03 5.87e-04 -2.33e-03 -7.34e-04 -2.88e-04 2.48e-03  
## 3987 5.30e-03 6.13e-03 -1.92e-03 -1.40e-02 1.19e-02 -3.51e-03 6.05e-03  
## 3988 1.03e-02 1.87e-02 -3.23e-02 1.73e-02 -1.21e-02 1.23e-02 1.87e-03  
## 3989 1.16e-02 -2.08e-02 4.67e-03 -3.81e-02 4.84e-02 -8.43e-03 -2.88e-02  
## 3990 -1.24e-03 1.48e-03 2.68e-05 8.73e-04 1.17e-03 -1.25e-03 3.97e-04  
## 3991 -1.37e-03 -1.22e-03 -8.57e-04 -1.36e-03 1.71e-03 7.52e-04 3.98e-04  
## 3992 2.02e-04 2.20e-03 -3.09e-04 -1.13e-03 -2.51e-03 3.34e-03 -3.46e-04  
## 3993 1.58e-02 1.15e-02 -2.51e-02 -7.00e-03 3.62e-03 3.58e-03 -1.19e-02  
## 3994 1.12e-03 -1.84e-02 3.34e-02 2.27e-02 -9.76e-03 7.11e-03 -1.09e-02  
## 3995 3.81e-03 8.10e-03 -2.80e-03 -1.43e-03 -9.24e-03 -1.01e-02 -8.62e-04  
## 3996 -5.47e-03 -4.69e-03 1.00e-04 -5.61e-04 4.76e-03 9.09e-04 6.41e-03  
## 3997 -2.53e-04 -3.94e-04 -1.32e-05 2.91e-04 2.70e-04 1.67e-04 1.21e-04  
## 3998 -3.47e-03 -5.15e-03 2.39e-03 5.16e-03 -7.51e-03 -1.55e-03 7.18e-03  
## 3999 -4.27e-02 -2.26e-02 7.79e-03 -6.50e-03 -1.03e-02 3.53e-02 4.63e-02  
## dfb.MltL dfb.IntS dfb.OnlB dfb.OnlS dfb.DvcP dfb.TchS dfb.StTV  
## 1 4.49e-03 4.95e-03 -2.29e-02 1.08e-02 8.08e-03 9.58e-03 7.15e-03  
## 2 -3.08e-03 5.74e-03 4.00e-03 -4.61e-03 -6.28e-03 5.77e-03 2.39e-03  
## 3 5.48e-03 -2.04e-02 4.20e-02 4.14e-02 -5.72e-03 -1.88e-02 -1.38e-04  
## 4 -1.32e-04 -1.66e-03 2.50e-03 -2.16e-03 -2.61e-03 -2.47e-03 1.86e-03  
## 5 1.46e-02 1.77e-04 -9.05e-03 -6.76e-03 -6.85e-03 -5.91e-03 -1.35e-02  
## 6 -1.12e-02 4.83e-03 -3.69e-03 6.02e-05 1.55e-02 -3.95e-03 7.36e-03  
## 7 1.74e-02 -6.17e-03 -2.65e-02 7.29e-03 1.26e-02 8.24e-03 -2.54e-02  
## 8 3.45e-03 7.83e-04 8.80e-03 -1.61e-02 7.07e-03 9.50e-03 4.12e-03  
## 9 -1.42e-02 1.51e-02 -1.49e-02 -8.59e-03 1.92e-02 3.16e-02 7.97e-03  
## 10 3.00e-03 -3.77e-03 2.46e-03 2.19e-03 -2.60e-03 -3.85e-03 -1.17e-03  
## 11 -4.66e-03 1.32e-02 6.75e-03 -1.55e-02 3.69e-03 7.77e-03 2.10e-03  
## 12 -3.27e-04 -7.96e-04 -1.58e-04 1.77e-04 2.04e-04 5.40e-04 -7.95e-05  
## 13 2.30e-03 3.70e-03 1.47e-02 1.11e-02 -5.35e-03 1.24e-02 -1.85e-03  
## 14 -1.11e-02 9.39e-03 2.27e-02 -1.22e-02 2.25e-02 -1.70e-02 1.23e-02  
## 15 -1.71e-02 -2.66e-02 1.31e-02 -2.78e-02 -1.69e-02 -2.35e-02 -8.91e-03  
## 16 -4.14e-04 1.76e-03 2.73e-04 8.25e-04 -3.45e-05 6.26e-04 -1.75e-04  
## 17 -3.86e-04 -4.94e-04 -2.58e-05 -3.72e-05 -7.52e-05 -1.14e-04 -1.49e-04  
## 18 1.04e-04 3.09e-05 3.80e-03 -1.30e-03 -1.86e-04 3.91e-03 1.42e-04  
## 19 1.08e-02 -2.89e-02 -1.91e-02 -3.15e-02 4.72e-02 4.42e-02 -1.45e-02  
## 20 -2.15e-02 -1.23e-02 -2.66e-02 8.69e-03 -2.71e-02 1.11e-02 2.95e-02  
## 21 -4.81e-03 -4.98e-03 -7.73e-03 -5.32e-03 2.68e-02 -8.31e-03 -1.80e-02  
## 22 -7.25e-04 -2.82e-03 -7.01e-04 -3.76e-04 -1.36e-04 -1.19e-04 -8.45e-04  
## 23 -3.92e-04 2.81e-02 8.18e-03 9.79e-03 8.56e-03 9.33e-03 1.12e-02  
## 24 8.07e-04 1.40e-03 -7.59e-04 1.32e-03 9.05e-04 -8.37e-04 6.37e-04  
## 25 1.23e-03 -7.05e-04 1.62e-03 1.44e-03 -1.20e-03 2.21e-03 -4.25e-04  
## 26 -4.44e-03 6.22e-03 -9.75e-03 -1.03e-02 2.75e-03 5.72e-03 3.58e-04  
## 27 -9.83e-03 1.25e-03 2.06e-02 -1.40e-02 -2.66e-02 -1.43e-02 1.22e-02  
## 28 -7.76e-03 -8.22e-03 3.42e-02 -2.18e-02 -1.50e-02 -1.72e-02 -1.22e-02  
## 29 -2.74e-03 -2.51e-03 2.12e-03 2.41e-03 1.54e-03 1.51e-03 2.47e-03  
## 30 1.19e-02 -3.93e-02 -1.17e-02 -1.12e-02 -1.49e-02 -1.58e-02 2.84e-02  
## 31 1.14e-04 -9.60e-04 -2.51e-04 -6.84e-04 -6.59e-04 -9.64e-04 1.87e-03  
## 32 -2.83e-02 -1.52e-02 7.15e-03 -3.48e-03 -4.06e-02 5.61e-03 -2.12e-02  
## 33 -6.52e-04 3.83e-04 -1.46e-03 -9.80e-04 -1.70e-03 -1.20e-03 7.99e-04  
## 34 -1.28e-04 -6.41e-03 -1.74e-03 -2.11e-03 -1.67e-03 -1.87e-03 -2.68e-03  
## 35 -6.66e-03 2.78e-02 6.97e-03 9.53e-03 5.45e-03 7.00e-03 1.31e-03  
## 36 -3.54e-04 1.58e-03 1.87e-04 8.69e-04 -5.60e-03 1.36e-03 1.70e-03  
## 37 1.56e-02 1.72e-04 -9.48e-03 -6.76e-03 -7.36e-03 -5.99e-03 -1.39e-02  
## 38 -1.86e-02 4.04e-04 1.48e-02 1.05e-02 -1.67e-02 8.19e-03 1.46e-02  
## 39 -1.22e-02 1.01e-02 2.23e-02 -6.20e-03 2.04e-02 -1.11e-02 9.57e-03  
## 40 -1.28e-02 5.65e-03 -4.72e-03 -1.53e-04 1.79e-02 -4.88e-03 9.40e-03  
## 41 -4.08e-03 1.60e-02 -1.25e-02 1.00e-02 5.43e-03 9.11e-03 3.85e-03  
## 42 -1.14e-03 -2.41e-03 1.00e-03 1.12e-03 -1.80e-03 -2.34e-03 2.19e-03  
## 43 -7.86e-04 -2.15e-03 -1.69e-04 1.78e-04 -1.14e-04 4.12e-05 -2.57e-04  
## 44 -2.24e-03 -1.48e-03 1.67e-03 1.63e-03 1.89e-03 1.24e-03 3.00e-03  
## 45 2.09e-02 1.65e-03 -2.00e-02 -2.06e-02 6.40e-03 -2.05e-02 -2.57e-02  
## 46 7.09e-03 5.28e-03 1.78e-02 1.05e-02 1.54e-02 8.08e-03 2.51e-02  
## 47 -3.67e-03 1.93e-02 -2.00e-02 9.65e-03 4.25e-03 8.38e-03 1.74e-03  
## 48 1.23e-02 1.58e-03 -6.49e-03 -3.14e-03 -7.42e-03 -5.19e-03 1.65e-02  
## 49 2.72e-03 3.03e-03 2.99e-03 -2.50e-03 3.86e-03 -1.69e-03 -2.45e-03  
## 50 -3.62e-03 -4.26e-03 -5.40e-03 2.16e-03 4.03e-03 2.85e-03 -3.42e-03  
## 51 8.54e-03 1.58e-04 -1.85e-02 8.52e-03 1.52e-02 6.11e-03 -2.31e-02  
## 52 1.74e-02 2.13e-02 2.69e-02 3.54e-02 -1.42e-02 -1.12e-02 1.69e-02  
## 53 1.71e-02 8.08e-03 7.86e-03 -2.04e-02 7.01e-03 -2.21e-02 -2.52e-02  
## 54 -1.20e-02 3.70e-03 2.05e-02 -3.14e-03 -4.88e-03 -4.46e-04 -9.22e-03  
## 55 8.23e-04 -3.48e-04 6.62e-04 7.12e-04 7.99e-04 8.25e-04 -9.07e-04  
## 56 -8.47e-03 -4.29e-05 -5.91e-03 1.55e-05 -8.82e-03 -1.89e-03 9.03e-03  
## 57 1.33e-03 2.04e-04 1.33e-02 -9.14e-03 1.34e-02 1.06e-02 -2.64e-03  
## 58 1.28e-03 -3.28e-03 -3.24e-03 8.48e-03 -3.21e-03 -8.79e-03 -6.48e-04  
## 59 1.79e-03 -4.93e-04 -5.44e-06 1.84e-04 1.20e-04 2.05e-04 -2.87e-07  
## 60 -1.25e-04 5.81e-04 8.75e-03 7.26e-03 -2.24e-05 -2.24e-03 1.50e-03  
## 61 6.92e-03 2.93e-04 1.94e-02 9.75e-03 -1.61e-02 1.15e-02 -6.65e-03  
## 62 3.20e-03 6.49e-04 -7.97e-03 8.83e-03 1.23e-02 7.55e-03 -1.26e-02  
## 63 8.42e-04 2.00e-04 1.46e-03 1.30e-03 1.64e-03 -2.68e-03 -1.57e-03  
## 64 -3.62e-03 8.72e-03 5.56e-03 8.52e-03 -1.06e-02 -8.74e-03 5.14e-03  
## 65 -1.26e-02 9.98e-04 -5.33e-03 -2.44e-03 -1.03e-02 -4.81e-03 1.06e-02  
## 66 -4.33e-03 1.01e-02 -2.91e-02 7.41e-03 1.07e-02 -2.63e-02 -2.30e-02  
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## 68 -3.11e-03 5.31e-03 -6.06e-03 6.47e-03 -3.75e-03 -3.04e-03 -3.81e-03  
## 69 1.46e-03 1.27e-03 -1.50e-04 -5.90e-04 -3.47e-04 -5.15e-04 -5.87e-06  
## 70 -1.64e-02 -1.74e-02 1.20e-02 -3.24e-02 -3.06e-02 1.11e-02 1.66e-02  
## 71 -2.64e-03 1.43e-02 5.85e-03 1.03e-02 5.20e-03 -1.78e-02 3.08e-03  
## 72 -7.49e-04 -9.31e-04 9.29e-06 -1.45e-04 -2.04e-04 -2.77e-04 -1.57e-04  
## 73 4.68e-04 -3.04e-03 8.56e-03 -3.85e-03 -6.41e-04 -3.17e-03 3.93e-04  
## 74 -5.33e-04 2.15e-04 -1.47e-06 1.86e-05 6.18e-06 1.39e-05 2.10e-05  
## 75 -2.59e-03 4.00e-03 5.35e-03 -1.70e-02 6.16e-03 -1.65e-02 7.74e-03  
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## 77 -5.75e-03 1.31e-02 5.59e-03 6.97e-03 6.04e-03 6.69e-03 6.02e-03  
## 78 -2.87e-03 7.98e-03 -1.26e-02 -1.11e-02 3.39e-03 7.24e-03 9.33e-04  
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## 80 5.28e-03 -2.50e-03 -1.27e-04 -7.04e-04 -6.58e-04 -9.96e-04 -5.54e-04  
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## 82 3.29e-03 -2.24e-03 9.22e-03 -2.36e-02 1.42e-02 1.27e-02 -1.77e-02  
## 83 1.74e-02 5.61e-03 -1.01e-02 -7.68e-03 2.80e-02 -7.20e-03 -1.69e-02  
## 84 -1.65e-02 -1.39e-02 -1.19e-02 8.94e-03 -1.08e-02 -1.75e-02 -5.35e-03  
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## 86 2.67e-02 -1.45e-02 -4.47e-02 -3.65e-04 1.78e-02 8.11e-03 -2.34e-02  
## 87 -6.40e-03 1.07e-02 6.77e-03 -9.31e-03 6.73e-03 8.92e-03 -1.29e-02  
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## 98 1.32e-03 2.85e-02 7.49e-03 9.53e-03 8.29e-03 9.68e-03 1.06e-02  
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## 109 7.55e-03 7.78e-03 1.66e-02 1.25e-02 2.16e-02 1.49e-02 -6.63e-03  
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## 116 -1.52e-02 -2.18e-02 -2.93e-02 -3.34e-02 1.18e-02 1.09e-02 -2.71e-02  
## 117 -5.54e-04 2.17e-03 4.92e-03 -4.11e-03 5.20e-03 7.07e-03 3.46e-03  
## 118 -1.39e-02 1.11e-02 -6.98e-03 2.86e-02 -1.06e-02 -6.49e-03 1.17e-02  
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## 125 -4.34e-04 -5.74e-03 -1.14e-03 -1.23e-03 -1.63e-03 -1.98e-03 -1.74e-03  
## 126 -1.16e-02 -6.62e-03 1.09e-02 -9.65e-03 1.28e-02 -7.47e-03 -7.43e-03  
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## 129 1.47e-04 -6.53e-03 -1.95e-03 -2.31e-03 -2.04e-03 -2.20e-03 -2.68e-03  
## 130 -3.65e-03 -1.79e-04 -5.97e-03 -9.35e-03 8.59e-03 6.87e-03 -6.94e-03  
## 131 2.15e-02 1.23e-04 1.43e-02 7.31e-03 1.61e-02 8.27e-03 3.43e-02  
## 132 -4.37e-03 2.09e-02 3.63e-02 4.43e-02 3.26e-02 -2.28e-02 2.96e-02  
## 133 3.46e-03 -5.80e-03 -3.82e-03 -5.22e-03 -3.62e-03 2.54e-03 -2.35e-03  
## 134 -5.14e-03 -1.01e-02 -1.00e-02 -9.18e-03 -1.32e-02 -1.20e-02 -1.93e-02  
## 135 8.91e-03 -4.76e-02 -1.25e-02 -1.97e-02 -9.81e-03 -1.68e-02 -4.80e-03  
## 136 4.34e-03 -1.44e-03 -6.44e-05 -1.82e-04 1.05e-05 2.89e-04 -1.10e-04  
## 137 -1.78e-02 -9.01e-03 1.37e-02 -2.42e-02 9.44e-03 9.55e-03 1.20e-02  
## 138 2.19e-03 1.33e-03 -3.69e-04 -8.27e-04 -3.90e-04 -4.60e-04 -1.57e-04  
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## 140 1.33e-02 -1.11e-03 -7.01e-03 -4.02e-03 -5.38e-03 -1.62e-03 -1.05e-02  
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## 142 -4.31e-02 -1.24e-02 -1.13e-02 3.74e-02 -1.53e-02 3.91e-02 -1.61e-02  
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## 144 1.79e-03 -1.87e-03 -3.34e-03 -6.10e-03 6.26e-03 6.16e-03 6.12e-03  
## 145 -9.35e-04 3.21e-04 6.96e-06 6.15e-05 -4.62e-05 1.89e-04 1.85e-04  
## 146 2.90e-04 -7.57e-04 -2.99e-04 -6.70e-04 1.96e-03 -7.21e-04 -7.20e-04  
## 147 -2.04e-04 -3.65e-03 -1.04e-03 -5.26e-04 -4.00e-04 2.28e-04 -9.69e-04  
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## 149 -3.81e-03 8.94e-03 -7.74e-03 6.39e-03 -7.80e-03 7.42e-03 -9.46e-03  
## 150 -3.92e-03 5.64e-03 -1.67e-02 8.33e-03 -1.66e-02 -1.67e-02 1.08e-02  
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## 165 -6.96e-04 -2.64e-03 -3.30e-04 1.62e-04 -1.70e-04 1.11e-04 -3.27e-04  
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## 173 -4.52e-03 8.20e-03 -1.38e-02 1.06e-02 -7.83e-03 -6.89e-03 -7.21e-03  
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## 177 -1.17e-02 -3.13e-03 -9.19e-03 -4.23e-03 -5.71e-03 -1.20e-03 -1.09e-02  
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## 184 -4.11e-03 6.46e-03 4.63e-03 -7.11e-03 -5.81e-03 8.02e-03 -6.29e-03  
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## 188 4.44e-03 5.63e-04 8.92e-03 1.17e-02 8.81e-03 -1.95e-02 6.93e-03  
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## 191 5.11e-03 4.04e-03 4.60e-03 -4.55e-03 4.71e-03 -4.94e-03 4.83e-03  
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## 193 3.58e-03 2.33e-03 -5.55e-04 -1.17e-03 -6.23e-04 -6.23e-04 9.49e-05  
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## 219 -4.11e-04 -6.20e-04 3.71e-04 -7.01e-04 2.75e-04 3.09e-04 2.98e-04  
## 220 -2.35e-02 -2.60e-03 1.32e-02 6.65e-03 1.43e-02 9.88e-03 -2.94e-02  
## 221 1.53e-02 -1.09e-04 -9.60e-03 -7.14e-03 -7.15e-03 -6.11e-03 -1.38e-02  
## 222 -2.94e-03 1.07e-03 -1.79e-04 -2.91e-04 -2.97e-04 -2.85e-05 2.60e-04  
## 223 -5.27e-04 -4.86e-03 -1.06e-03 -1.07e-03 -8.32e-04 -7.76e-05 -5.44e-04  
## 224 8.90e-03 -3.46e-02 -1.49e-02 -2.57e-02 -1.39e-02 4.38e-02 -8.60e-03  
## 225 -9.45e-04 -4.36e-03 -9.94e-04 -1.30e-03 -9.26e-04 -2.33e-04 -1.25e-03  
## 226 8.49e-04 9.74e-04 1.01e-02 -2.17e-02 1.53e-02 1.59e-02 -1.40e-02  
## 227 -4.26e-03 3.29e-03 5.88e-03 -7.80e-03 -6.61e-03 -6.08e-03 -6.01e-03  
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## 229 1.32e-02 -9.11e-03 1.52e-02 1.05e-02 1.61e-02 -3.21e-02 2.68e-02  
## 230 2.10e-03 1.55e-03 -1.75e-03 -1.62e-03 2.81e-03 -1.17e-03 -1.74e-03  
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## 232 -9.71e-03 -9.57e-03 -5.41e-03 -8.62e-03 8.10e-03 -9.60e-03 1.02e-02  
## 233 1.23e-02 1.27e-02 -6.06e-03 3.00e-02 -8.51e-03 -7.37e-03 -1.83e-02  
## 234 3.07e-03 1.89e-03 -4.33e-04 -7.52e-04 -4.97e-04 -5.72e-04 2.32e-04  
## 235 1.09e-02 -5.50e-03 -1.44e-03 -2.45e-03 -2.27e-03 -3.35e-03 -2.85e-03  
## 236 -3.62e-02 -3.23e-02 3.63e-02 -1.04e-02 -3.50e-03 -9.88e-03 -2.26e-03  
## 237 2.12e-03 5.35e-03 9.34e-03 1.34e-02 1.07e-02 -9.71e-03 1.02e-02  
## 238 1.80e-02 3.15e-03 1.39e-02 8.70e-03 1.02e-02 4.91e-03 1.75e-02  
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## 241 -2.22e-03 -4.58e-03 1.70e-03 -5.49e-03 1.06e-03 1.34e-03 1.82e-03  
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## 246 -1.88e-02 -1.25e-02 1.16e-02 -3.56e-02 9.90e-03 7.28e-03 1.24e-02  
## 247 1.04e-02 1.74e-02 6.74e-03 8.65e-03 -1.09e-02 9.20e-03 9.75e-03  
## 248 1.91e-02 4.27e-03 2.42e-02 -6.23e-03 -7.67e-03 -3.61e-03 -1.27e-02  
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## 250 7.15e-03 -9.34e-03 -1.08e-02 -1.55e-02 -1.13e-02 1.29e-02 1.89e-02  
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## 254 9.53e-03 5.52e-03 -8.96e-03 6.77e-03 -6.94e-03 -7.23e-03 -6.78e-03  
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## 291 -1.09e-02 -3.23e-03 -1.18e-02 -5.39e-03 -7.73e-03 -1.69e-03 -1.29e-02  
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## 293 -1.22e-02 -9.88e-03 -1.16e-02 1.34e-02 -1.23e-02 -1.40e-02 1.55e-02  
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## 305 9.68e-03 -7.85e-04 -1.53e-02 1.18e-02 1.05e-02 7.60e-03 1.64e-02  
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## 332 -6.81e-04 -4.73e-03 -1.22e-03 -1.50e-03 -1.22e-03 -2.28e-04 -1.15e-03  
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## 343 9.16e-04 9.08e-04 -8.40e-04 -1.10e-03 -1.52e-03 9.36e-04 4.38e-04  
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## 379 -2.46e-03 -1.67e-03 1.86e-03 1.59e-03 1.26e-03 9.75e-04 1.95e-03  
## 380 1.52e-02 -9.50e-03 1.29e-02 1.49e-02 -1.98e-02 -2.31e-02 2.06e-02  
## 381 -1.27e-02 -7.59e-03 -7.69e-03 1.07e-02 -9.45e-03 -1.14e-02 1.25e-02  
## 382 7.72e-03 -3.80e-02 3.98e-02 -1.94e-02 -8.83e-03 -1.70e-02 -4.29e-03  
## 383 3.66e-04 4.85e-04 4.66e-04 6.23e-04 3.06e-04 4.94e-04 4.10e-04  
## 384 -1.29e-02 6.66e-03 2.07e-02 -9.75e-04 -5.62e-03 -2.79e-03 -1.43e-02  
## 385 3.92e-03 -1.55e-04 -9.74e-03 1.28e-02 -6.04e-03 1.88e-02 -2.64e-04  
## 386 5.60e-03 2.49e-02 8.23e-03 1.32e-02 8.97e-03 1.79e-02 1.35e-02  
## 387 -7.22e-03 1.74e-03 1.88e-02 -1.92e-02 3.20e-02 -1.01e-02 -2.71e-02  
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## 389 8.72e-03 4.57e-04 1.77e-02 1.03e-02 -1.97e-02 9.93e-03 2.86e-02  
## 390 -3.91e-03 2.31e-02 6.62e-03 1.04e-02 4.62e-03 8.54e-03 2.97e-03  
## 391 1.50e-02 2.23e-04 1.68e-02 6.26e-03 2.13e-02 1.05e-02 -1.57e-02  
## 392 1.91e-02 7.79e-03 -2.21e-02 5.52e-03 -1.92e-02 -2.54e-02 -1.87e-02  
## 393 -7.59e-03 3.29e-02 8.14e-03 8.98e-03 4.28e-03 6.93e-03 2.21e-03  
## 394 -8.88e-04 -4.89e-03 -1.10e-03 -1.57e-03 -1.66e-03 -2.06e-03 -2.12e-03  
## 395 7.90e-03 6.48e-03 2.08e-02 7.32e-03 2.29e-02 6.63e-03 -1.40e-02  
## 396 -2.07e-03 -1.59e-03 1.51e-03 1.65e-03 1.19e-03 9.11e-04 1.71e-03  
## 397 1.19e-02 -2.52e-02 1.52e-02 -3.14e-02 -1.72e-02 -2.99e-02 -1.13e-02  
## 398 3.06e-02 3.42e-03 2.54e-02 -1.67e-02 -1.51e-02 -1.23e-02 -2.09e-02  
## 399 1.69e-05 -4.65e-03 1.04e-02 6.54e-03 -1.73e-02 -2.59e-02 -1.46e-02  
## 400 -7.43e-04 -1.80e-03 -1.93e-04 7.41e-05 -1.85e-04 -1.06e-04 -3.10e-04  
## 401 -5.82e-04 -1.23e-03 -1.69e-04 -1.17e-04 -1.33e-04 -9.83e-05 -4.26e-04  
## 402 -6.42e-04 -2.96e-03 -5.94e-04 -2.55e-04 -2.61e-04 1.50e-04 -8.61e-04  
## 403 -2.64e-03 -7.30e-03 -4.47e-02 -2.58e-02 1.82e-02 -2.50e-02 5.86e-03  
## 404 4.89e-03 -4.78e-03 -5.81e-03 2.54e-03 -4.72e-03 4.39e-03 -2.24e-03  
## 405 -9.76e-04 -1.97e-03 -3.70e-04 -1.05e-04 1.26e-04 1.01e-03 8.35e-05  
## 406 1.61e-03 1.19e-03 -7.70e-05 5.28e-05 -2.49e-05 -9.18e-05 1.35e-04  
## 407 1.83e-03 -2.04e-03 1.07e-02 -7.42e-03 -5.17e-03 8.60e-03 -5.07e-03  
## 408 -2.73e-02 -4.29e-03 -2.46e-02 6.74e-03 1.92e-02 7.44e-03 -1.40e-02  
## 409 1.81e-04 2.68e-02 7.55e-03 1.27e-02 1.09e-02 1.03e-02 9.84e-03  
## 410 -3.26e-04 2.77e-02 8.49e-03 1.39e-02 1.10e-02 1.09e-02 1.03e-02  
## 411 -1.22e-02 4.11e-03 1.95e-02 -1.71e-03 -3.53e-03 -4.13e-04 -8.13e-03  
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## 413 1.28e-02 4.79e-03 1.68e-02 1.11e-02 1.16e-02 6.03e-03 1.80e-02  
## 414 5.88e-03 -7.83e-03 -7.89e-03 8.59e-03 -1.20e-02 -1.55e-02 1.06e-02  
## 415 -2.46e-02 5.56e-03 1.75e-02 1.09e-02 1.19e-02 4.98e-03 1.41e-02  
## 416 -1.63e-02 -3.67e-03 -1.92e-02 1.18e-02 9.36e-03 7.67e-03 1.26e-02  
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## 418 4.49e-03 -1.24e-03 -1.58e-05 3.18e-05 -2.20e-05 2.28e-04 1.45e-04  
## 419 2.52e-02 5.14e-03 2.78e-02 -1.56e-02 -1.85e-02 -1.23e-02 -3.08e-02  
## 420 1.36e-02 4.54e-03 -6.90e-03 -3.53e-03 2.46e-02 -3.28e-03 -1.21e-02  
## 421 1.96e-02 -8.88e-03 -2.87e-03 -4.83e-03 -4.47e-03 -5.25e-03 -3.42e-03  
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## 425 3.42e-03 -7.19e-03 -1.39e-02 -1.41e-02 -1.57e-02 9.08e-03 3.84e-03  
## 426 7.29e-03 1.90e-02 8.05e-03 7.64e-03 4.93e-03 3.06e-03 1.72e-03  
## 427 3.57e-03 -1.19e-03 -1.23e-02 9.94e-03 -1.02e-02 1.27e-02 -5.00e-03  
## 428 2.07e-02 6.09e-04 1.33e-02 1.12e-02 1.66e-02 8.30e-03 3.24e-02  
## 429 1.72e-02 1.35e-03 1.49e-02 9.00e-03 1.07e-02 6.55e-03 1.77e-02  
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## 431 2.08e-02 3.25e-02 2.50e-03 1.27e-02 1.46e-02 2.28e-02 1.22e-02  
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## 436 1.89e-03 -3.92e-03 9.34e-03 8.42e-03 -1.65e-02 -1.91e-02 -1.77e-02  
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## 445 -2.24e-02 3.74e-03 1.55e-02 1.26e-02 1.62e-02 9.32e-03 2.37e-02  
## 446 -6.54e-03 4.49e-03 1.63e-02 -1.99e-02 1.96e-02 -2.25e-02 8.38e-03  
## 447 1.52e-02 -1.16e-03 -9.96e-03 -9.92e-03 -8.73e-03 -7.43e-03 -1.44e-02  
## 448 1.24e-03 -4.54e-04 2.17e-05 4.43e-06 5.98e-06 3.44e-05 -1.01e-05  
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## 453 -1.99e-03 -4.24e-03 -7.12e-03 5.28e-03 -6.26e-03 -9.93e-03 -5.89e-03  
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## 457 -1.06e-02 -8.61e-03 -9.56e-03 1.01e-02 -8.46e-03 -1.09e-02 -7.56e-03  
## 458 -2.80e-03 3.88e-03 -4.72e-03 5.51e-03 -2.83e-03 -2.43e-03 -2.86e-03  
## 459 -2.56e-04 -6.50e-03 -1.96e-03 -2.23e-03 -1.81e-03 -2.54e-03 -2.55e-03  
## 460 2.70e-02 -5.19e-04 1.15e-02 6.55e-03 8.73e-03 5.49e-03 1.99e-02  
## 461 -4.59e-05 -5.22e-03 -1.18e-03 -1.42e-03 -1.70e-03 -1.69e-03 -1.85e-03  
## 462 -9.21e-03 1.91e-02 -2.14e-02 6.58e-03 1.01e-02 9.41e-03 -1.98e-02  
## 463 -1.30e-02 5.86e-03 -3.90e-03 -1.90e-03 1.64e-02 -4.68e-03 7.61e-03  
## 464 -1.17e-02 6.28e-03 1.95e-02 4.69e-04 -7.20e-03 -3.17e-03 9.79e-03  
## 465 -2.39e-05 -1.51e-03 -2.26e-04 -1.25e-03 -6.07e-06 -9.72e-04 7.13e-05  
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## 468 3.76e-04 3.15e-03 -2.26e-03 8.11e-03 9.29e-03 7.12e-03 -4.69e-03  
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## 472 7.69e-03 -3.54e-02 -7.12e-03 -9.57e-03 -9.56e-03 -1.26e-02 -1.50e-02  
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## 474 -2.33e-03 3.62e-03 3.80e-03 -5.86e-03 3.00e-03 -7.57e-03 9.71e-04  
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## 479 1.23e-02 1.24e-02 -5.88e-03 -3.06e-03 -1.18e-02 2.53e-02 9.22e-03  
## 480 2.34e-02 -2.08e-03 -1.75e-02 -1.65e-02 -1.34e-02 -1.14e-02 -1.93e-02  
## 481 -3.72e-04 -9.08e-04 -1.01e-04 4.38e-04 3.20e-04 7.33e-04 1.72e-04  
## 482 5.24e-03 9.76e-03 -2.48e-02 4.42e-02 3.74e-02 -2.24e-02 -2.98e-02  
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## 485 1.60e-02 6.71e-03 2.46e-02 -6.15e-03 -9.75e-03 -7.07e-03 2.12e-02  
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## 487 2.35e-02 -1.16e-02 -4.01e-02 2.52e-03 1.88e-02 9.19e-03 -2.08e-02  
## 488 -3.77e-04 -7.40e-04 3.33e-04 -8.56e-04 2.40e-04 2.91e-04 2.93e-04  
## 489 -1.58e-02 8.19e-05 -7.24e-03 -4.77e-03 -4.80e-03 -3.61e-03 -1.20e-02  
## 490 8.12e-04 1.60e-03 -3.13e-03 8.92e-03 -2.08e-03 1.10e-02 5.71e-04  
## 491 -5.08e-03 2.28e-02 -2.76e-02 7.30e-03 6.02e-03 1.04e-02 -3.27e-02  
## 492 1.56e-02 1.22e-02 -9.99e-03 3.12e-02 -7.77e-03 -8.14e-03 -1.27e-02  
## 493 4.06e-03 1.06e-02 -5.57e-03 5.32e-03 5.23e-03 4.20e-03 4.32e-03  
## 494 5.81e-05 -6.76e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.22e-03 -2.63e-03  
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## 500 8.78e-03 -1.82e-02 -1.16e-02 -1.45e-02 -7.74e-03 -1.15e-02 -4.61e-03  
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## 502 -2.86e-04 -6.63e-04 -4.80e-04 3.13e-04 -4.39e-04 -4.70e-04 -3.72e-04  
## 503 -7.33e-03 -6.32e-03 7.20e-03 -5.35e-03 -5.87e-03 -7.16e-03 6.11e-03  
## 504 -4.75e-03 -3.64e-03 2.98e-03 3.02e-03 3.89e-03 2.40e-03 6.30e-03  
## 505 -1.25e-02 8.01e-03 2.20e-02 -2.44e-03 2.25e-02 -3.10e-03 -1.96e-02  
## 506 2.30e-02 -4.12e-03 1.27e-02 8.37e-03 -3.76e-02 7.37e-03 2.13e-02  
## 507 1.15e-02 1.21e-02 -4.64e-03 -2.42e-03 -1.12e-02 2.59e-02 9.72e-03  
## 508 -1.80e-02 9.91e-03 -1.11e-02 -1.00e-02 -8.70e-03 3.37e-02 -1.68e-02  
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## 511 3.35e-03 -6.27e-03 1.62e-02 -1.68e-02 -8.64e-03 1.11e-02 -4.70e-03  
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## 514 1.15e-02 -2.20e-02 -1.39e-02 -1.83e-02 -1.78e-02 -1.98e-02 1.15e-02  
## 515 -1.55e-02 1.78e-02 -2.45e-02 -1.73e-02 2.01e-02 3.68e-02 1.06e-02  
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## 518 2.79e-02 1.06e-02 -1.88e-02 3.56e-02 -1.30e-02 -7.77e-03 -1.52e-02  
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## 521 1.80e-02 3.14e-02 9.75e-03 8.32e-03 5.25e-03 3.63e-03 2.91e-03  
## 522 3.17e-03 4.46e-03 1.47e-02 1.10e-02 1.35e-02 7.22e-03 1.84e-02  
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## 536 1.99e-03 1.21e-03 -6.94e-03 1.01e-02 9.73e-03 5.72e-03 1.11e-02  
## 537 -2.43e-03 3.73e-03 -4.78e-03 -4.31e-03 -6.12e-03 4.86e-03 1.95e-03  
## 538 -1.46e-02 2.61e-03 -2.84e-03 8.90e-03 1.27e-02 9.41e-03 -1.43e-03  
## 539 1.31e-03 -1.41e-03 8.16e-04 -1.81e-03 5.86e-04 5.66e-04 6.18e-04  
## 540 -1.81e-04 1.22e-03 1.18e-04 7.13e-04 4.10e-05 4.65e-04 -1.54e-04  
## 541 2.78e-02 3.37e-02 6.82e-03 7.76e-03 7.36e-03 8.80e-03 1.25e-02  
## 542 9.23e-05 -6.40e-03 -1.79e-03 -2.09e-03 -2.10e-03 -2.13e-03 -2.71e-03  
## 543 -1.24e-02 1.46e-03 -6.91e-03 -2.18e-03 -7.74e-03 -3.98e-03 1.75e-02  
## 544 -8.07e-03 2.05e-02 -1.77e-02 4.03e-02 -1.96e-02 3.79e-02 4.35e-02  
## 545 -2.06e-02 4.56e-03 1.44e-02 1.23e-02 1.60e-02 1.27e-02 2.46e-02  
## 546 3.25e-02 3.26e-03 2.21e-02 -1.61e-02 -2.08e-02 -1.38e-02 2.35e-02  
## 547 1.31e-03 -2.19e-03 -3.18e-03 8.80e-03 1.24e-02 -7.55e-03 -1.58e-03  
## 548 3.59e-03 -7.77e-03 -7.92e-03 -1.51e-02 -9.68e-03 1.12e-02 -1.05e-02  
## 549 -6.30e-04 -5.18e-03 -1.33e-03 -1.82e-03 -1.66e-03 -2.09e-03 -2.21e-03  
## 550 4.14e-05 -5.27e-04 -2.98e-04 -1.22e-03 -2.21e-04 3.22e-03 9.72e-05  
## 551 -5.28e-05 5.84e-04 3.91e-05 3.16e-04 1.83e-06 2.06e-04 -1.09e-04  
## 552 2.24e-03 1.85e-03 -2.30e-04 -7.85e-04 -5.40e-04 -6.72e-04 5.78e-05  
## 553 7.72e-03 -2.39e-03 -3.75e-04 -1.01e-04 -5.03e-06 6.44e-04 1.53e-04  
## 554 -1.45e-02 3.88e-03 2.46e-02 -1.22e-02 -1.29e-02 -8.59e-03 -1.81e-02  
## 555 3.27e-03 4.39e-03 3.44e-03 -3.68e-03 -3.86e-03 3.97e-03 3.48e-03  
## 556 -1.68e-04 -6.27e-03 -1.61e-03 -1.91e-03 -1.73e-03 -1.80e-03 -2.71e-03  
## 557 -1.19e-03 1.03e-03 -2.01e-03 -1.74e-03 1.91e-03 -1.72e-03 -3.15e-03  
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## 559 -3.39e-03 1.54e-02 6.48e-03 9.83e-03 4.88e-03 -2.12e-02 3.67e-03  
## 560 2.60e-03 -3.82e-03 -5.98e-03 1.16e-02 1.74e-02 -1.18e-02 -1.67e-03  
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## 562 -4.90e-03 1.30e-02 5.28e-03 -2.17e-02 9.70e-03 1.11e-02 -1.98e-02  
## 563 1.60e-03 5.27e-03 1.43e-02 1.14e-02 -3.50e-03 1.42e-02 9.80e-04  
## 564 -3.10e-03 9.04e-03 5.01e-03 8.11e-03 -1.70e-02 -1.68e-02 -2.00e-02  
## 565 6.17e-03 -5.13e-03 -7.60e-03 2.55e-03 3.35e-03 2.48e-03 -7.95e-03  
## 566 -1.57e-02 -1.78e-02 1.23e-02 -2.01e-02 2.01e-02 -1.75e-02 -6.81e-03  
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## 568 -1.10e-02 2.35e-03 -1.56e-02 -6.70e-03 1.94e-02 -1.06e-02 8.53e-03  
## 569 3.18e-03 -4.86e-03 -1.37e-02 1.07e-02 -1.42e-02 -1.27e-02 8.65e-03  
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## 572 -3.79e-03 1.03e-02 5.30e-03 1.01e-02 -1.18e-02 -1.06e-02 1.06e-02  
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## 575 9.99e-04 -7.82e-04 7.20e-04 6.91e-04 -1.47e-03 4.81e-04 7.67e-04  
## 576 8.45e-03 -7.82e-03 1.39e-02 -1.66e-02 -1.23e-02 1.45e-02 -1.14e-02  
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## 578 1.08e-02 -1.36e-02 -2.07e-02 -3.18e-02 1.45e-02 6.59e-03 2.14e-02  
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## 581 1.56e-02 1.22e-02 -1.12e-02 3.06e-02 -9.50e-03 -1.08e-02 -1.35e-02  
## 582 -1.05e-02 3.14e-03 -3.56e-03 4.49e-04 1.71e-02 -1.08e-03 1.32e-02  
## 583 -1.33e-04 -7.39e-03 -1.81e-03 -2.94e-03 -2.98e-03 -3.01e-03 -2.34e-03  
## 584 -2.45e-04 -8.49e-03 -2.33e-03 -4.01e-03 -3.45e-03 -3.33e-03 -3.11e-03  
## 585 -8.76e-03 3.86e-04 -3.27e-03 2.51e-04 -3.79e-03 -3.87e-04 1.23e-02  
## 586 -7.68e-04 1.17e-03 -8.20e-04 -8.12e-04 9.14e-04 1.34e-03 -1.36e-03  
## 587 -4.11e-04 -3.00e-03 -6.01e-04 -2.99e-05 -2.05e-04 1.37e-04 -4.23e-04  
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## 589 -5.21e-03 -5.46e-03 2.96e-03 2.52e-03 1.93e-03 1.76e-03 3.94e-03  
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## 595 -4.94e-02 -9.45e-03 -1.33e-02 4.18e-02 5.10e-02 4.37e-02 -5.20e-03  
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## 605 -2.78e-03 -4.15e-03 -5.65e-03 2.07e-03 1.22e-03 1.52e-03 2.45e-03  
## 606 -6.94e-04 6.67e-04 9.40e-04 -6.82e-04 -5.46e-04 -4.09e-04 -6.64e-04  
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## 608 -3.80e-04 2.72e-03 1.93e-04 1.15e-03 -3.05e-04 8.19e-04 -3.91e-04  
## 609 -3.35e-03 1.08e-02 -4.32e-02 3.83e-02 1.76e-02 -2.45e-02 1.51e-02  
## 610 -5.41e-03 -7.09e-03 3.27e-02 -1.74e-02 -1.22e-02 -1.43e-02 -1.21e-02  
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## 612 2.38e-03 1.64e-03 -4.03e-04 -7.97e-04 -3.75e-04 -6.15e-04 -1.38e-04  
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## 614 1.88e-03 2.74e-03 1.80e-03 2.55e-03 -1.44e-03 -1.36e-03 2.40e-03  
## 615 2.07e-02 2.76e-02 7.27e-03 1.01e-02 4.49e-03 7.13e-03 2.16e-03  
## 616 3.08e-03 9.78e-03 1.06e-02 1.00e-02 8.28e-03 9.32e-03 7.47e-03  
## 617 1.29e-03 -7.08e-04 1.42e-02 9.56e-03 -3.83e-03 -1.05e-02 -1.17e-03  
## 618 3.20e-03 -7.15e-03 -4.07e-03 -6.90e-03 5.32e-03 -9.07e-03 5.10e-03  
## 619 2.33e-02 -8.13e-03 -3.43e-02 7.06e-03 7.57e-03 5.83e-03 1.51e-02  
## 620 1.31e-03 1.05e-02 1.06e-02 8.05e-03 1.25e-02 7.24e-03 1.69e-02  
## 621 1.79e-03 -3.30e-03 -2.82e-03 -5.71e-03 -5.77e-03 7.49e-03 7.99e-03  
## 622 -1.93e-02 1.93e-03 1.53e-02 1.20e-02 -1.30e-02 1.34e-02 -9.10e-03  
## 623 -5.30e-04 -9.22e-04 -1.09e-04 3.45e-04 2.58e-04 7.19e-04 1.04e-05  
## 624 2.68e-03 3.11e-02 7.46e-03 9.43e-03 8.66e-03 9.78e-03 1.36e-02  
## 625 -2.34e-02 -1.17e-02 1.56e-02 1.02e-02 2.12e-02 -3.26e-02 -1.03e-02  
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## 628 -5.14e-05 -3.58e-04 -5.85e-04 6.00e-03 -2.38e-06 -2.31e-03 5.91e-04  
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## 631 6.19e-03 7.77e-03 4.79e-03 -6.82e-03 3.01e-03 3.78e-03 4.99e-04  
## 632 -5.45e-03 -5.46e-03 3.32e-03 2.84e-03 2.17e-03 2.01e-03 4.43e-03  
## 633 -5.62e-04 -3.39e-03 -8.46e-04 -4.67e-04 -3.64e-04 6.21e-05 -8.43e-04  
## 634 -4.87e-04 -4.13e-03 7.33e-03 -1.01e-02 1.00e-02 -8.17e-03 -7.54e-03  
## 635 -4.35e-03 2.24e-03 1.33e-02 -2.66e-02 1.88e-02 -2.60e-02 6.08e-03  
## 636 -1.42e-02 -4.88e-03 1.14e-02 1.25e-02 -5.06e-03 -8.44e-03 -7.79e-04  
## 637 -5.69e-03 -5.16e-03 3.94e-03 2.26e-03 5.34e-03 3.59e-03 -5.25e-03  
## 638 -6.60e-03 9.18e-03 -3.75e-02 3.73e-02 1.71e-02 -2.90e-02 9.24e-03  
## 639 -1.17e-02 5.88e-04 -6.05e-03 -2.76e-03 -8.15e-03 -3.08e-03 -1.75e-02  
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## 642 1.00e-02 2.96e-03 -3.44e-03 -2.33e-04 -7.92e-03 -4.20e-03 8.95e-03  
## 643 -2.03e-02 -1.58e-03 -1.08e-02 1.07e-02 -1.17e-02 1.13e-02 2.17e-02  
## 644 1.62e-02 -8.09e-03 -2.10e-03 -4.11e-03 -3.75e-03 -4.85e-03 -3.01e-03  
## 645 -8.34e-03 -5.16e-04 -6.38e-03 -2.55e-04 -9.72e-03 -1.53e-03 9.50e-03  
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## 647 5.53e-03 6.93e-03 5.20e-03 5.69e-03 -5.72e-03 -5.98e-03 -6.65e-03  
## 648 -1.26e-02 4.49e-03 2.07e-02 -1.73e-03 -6.11e-03 -1.24e-03 -1.32e-02  
## 649 -2.26e-02 3.96e-03 1.50e-02 1.10e-02 1.18e-02 5.62e-03 1.45e-02  
## 650 1.59e-02 7.26e-04 -9.66e-03 -7.14e-03 -7.45e-03 -6.42e-03 -1.35e-02  
## 651 1.30e-02 4.52e-03 -7.85e-03 -5.93e-03 2.64e-02 -6.47e-03 -1.51e-02  
## 652 9.58e-05 1.07e-04 -1.44e-06 -5.01e-05 -3.23e-05 -5.86e-05 -1.56e-05  
## 653 1.43e-02 -6.48e-03 -1.99e-03 -2.99e-03 -2.78e-03 -3.72e-03 -3.31e-03  
## 654 4.03e-03 2.52e-02 7.60e-03 1.26e-02 9.77e-03 1.57e-02 1.44e-02  
## 655 -2.15e-02 -1.95e-02 1.11e-02 5.99e-03 2.02e-02 -4.08e-02 -1.55e-02  
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## 659 -1.15e-03 -2.87e-03 -5.56e-04 -9.23e-04 -7.53e-04 -1.45e-03 -1.27e-03  
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## 661 -5.76e-03 2.46e-02 7.48e-03 1.08e-02 5.22e-03 8.49e-03 3.09e-03  
## 662 1.07e-04 -6.64e-03 -1.94e-03 -2.32e-03 -2.03e-03 -2.21e-03 -2.66e-03  
## 663 2.15e-04 4.02e-04 -2.07e-04 -2.03e-04 3.05e-04 3.85e-04 2.94e-04  
## 664 2.32e-03 1.76e-03 -3.28e-04 -8.97e-04 -5.12e-04 -6.77e-04 3.95e-05  
## 665 -1.98e-02 -6.27e-03 1.23e-02 9.22e-03 -3.84e-02 9.78e-03 2.24e-02  
## 666 1.61e-02 -8.41e-04 -1.05e-02 -1.03e-02 -9.25e-03 -7.80e-03 -1.46e-02  
## 667 -1.66e-03 3.54e-03 8.23e-03 6.83e-03 -1.57e-02 5.46e-03 5.82e-03  
## 668 9.97e-03 -4.79e-02 -1.39e-02 -2.08e-02 -1.01e-02 -1.70e-02 -6.20e-03  
## 669 2.18e-04 2.20e-05 3.98e-04 -7.11e-04 1.99e-04 3.37e-04 2.64e-04  
## 670 -3.48e-04 -4.57e-04 -9.38e-06 -7.98e-05 -9.64e-05 -1.32e-04 -1.05e-04  
## 671 -1.25e-03 4.10e-04 -3.41e-05 -1.29e-04 -1.01e-04 -8.39e-05 4.21e-06  
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## 674 7.16e-03 -8.16e-03 3.09e-02 -9.32e-03 -2.23e-02 -1.08e-02 3.01e-02  
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## 676 2.54e-03 -1.16e-03 -1.59e-04 -2.63e-04 -2.35e-04 -3.98e-04 -5.37e-04  
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## 679 5.39e-03 2.60e-05 -1.09e-02 1.11e-02 1.07e-02 6.37e-03 1.15e-02  
## 680 1.49e-02 1.56e-03 -7.66e-03 -7.55e-03 -1.14e-02 -6.87e-03 -2.25e-02  
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## 682 -2.50e-03 4.51e-03 5.33e-03 -2.02e-02 6.19e-03 -1.85e-02 -2.49e-02  
## 683 8.69e-03 -6.98e-03 1.74e-02 1.12e-02 -1.25e-02 -2.33e-02 -4.99e-03  
## 684 -1.99e-02 1.06e-03 1.30e-02 1.28e-02 1.15e-02 9.62e-03 1.90e-02  
## 685 -3.79e-03 1.61e-02 7.09e-03 1.06e-02 5.06e-03 -2.15e-02 4.03e-03  
## 686 4.63e-03 -2.40e-03 -4.17e-04 -1.10e-03 -7.34e-04 -1.04e-03 -9.52e-04  
## 687 8.18e-03 -2.83e-02 -1.05e-02 4.02e-02 -5.49e-03 -1.22e-02 5.29e-04  
## 688 -1.29e-03 4.06e-03 -6.87e-03 6.97e-03 5.23e-03 5.72e-03 3.92e-03  
## 689 5.44e-03 4.26e-03 1.43e-02 1.00e-02 1.37e-02 7.34e-03 1.87e-02  
## 690 -4.89e-05 -8.97e-03 -2.63e-03 -4.40e-03 -3.44e-03 -3.43e-03 -3.11e-03  
## 691 7.40e-03 2.26e-03 -6.82e-03 -6.25e-03 4.89e-03 -6.22e-03 4.90e-03  
## 692 2.89e-04 4.45e-04 1.33e-06 5.84e-07 4.47e-05 5.28e-05 1.03e-04  
## 693 -1.42e-02 -3.62e-05 -7.20e-03 -4.45e-03 -5.19e-03 -3.52e-03 -1.10e-02  
## 694 -2.36e-03 -4.88e-03 -1.25e-03 -2.63e-03 -1.70e-03 -2.26e-03 -1.90e-03  
## 695 -6.02e-04 -8.88e-03 -2.48e-03 -4.06e-03 -3.25e-03 -3.78e-03 -2.95e-03  
## 696 -1.17e-03 -2.36e-03 1.04e-03 -2.59e-03 7.14e-04 9.57e-04 9.84e-04  
## 697 8.86e-03 -3.76e-02 -1.22e-02 -1.69e-02 4.38e-02 -1.60e-02 -1.06e-02  
## 698 -2.03e-02 2.00e-03 -9.78e-03 1.08e-02 1.44e-02 1.00e-02 -1.18e-02  
## 699 -3.87e-03 -5.17e-03 -7.00e-03 2.26e-03 4.30e-03 3.08e-03 -4.55e-03  
## 700 1.59e-03 4.58e-03 2.39e-03 2.56e-03 -1.93e-03 2.83e-03 -2.50e-03  
## 701 1.16e-02 4.36e-03 1.53e-02 9.72e-03 1.46e-02 8.09e-03 -2.12e-02  
## 702 1.42e-02 2.82e-03 1.63e-02 8.72e-03 1.63e-02 8.27e-03 2.96e-02  
## 703 -2.60e-04 -8.82e-03 -2.38e-03 -4.10e-03 -3.50e-03 -3.37e-03 -3.08e-03  
## 704 -3.85e-03 1.89e-02 -1.92e-02 9.54e-03 4.26e-03 8.18e-03 1.75e-03  
## 705 2.73e-02 2.26e-02 2.80e-02 3.74e-02 -1.43e-02 -1.55e-02 -1.74e-02  
## 706 3.89e-03 -3.74e-03 2.95e-03 2.17e-03 -4.23e-03 2.67e-03 -2.61e-03  
## 707 1.32e-02 -1.34e-02 -2.33e-02 9.58e-03 2.27e-02 -2.98e-02 -1.09e-02  
## 708 -2.10e-02 -2.12e-03 1.47e-02 1.05e-02 -2.33e-02 8.43e-03 1.80e-02  
## 709 1.61e-02 1.43e-02 -1.80e-02 7.22e-03 -1.60e-02 8.84e-03 -1.50e-02  
## 710 -7.54e-04 2.80e-02 8.45e-03 1.00e-02 8.84e-03 9.50e-03 1.17e-02  
## 711 -1.84e-02 -1.30e-02 1.46e-02 1.29e-02 -2.38e-02 -2.93e-02 2.04e-02  
## 712 1.44e-03 -5.03e-04 1.26e-05 -6.71e-05 -1.53e-05 3.22e-05 -7.94e-05  
## 713 1.90e-02 -2.14e-02 1.40e-02 -2.72e-02 9.50e-03 -3.12e-02 1.59e-02  
## 714 -1.69e-03 5.59e-04 -4.08e-05 -9.75e-05 -1.21e-04 5.56e-05 7.67e-05  
## 715 7.22e-03 -4.91e-03 1.56e-02 -2.13e-02 1.27e-02 9.23e-03 -1.69e-02  
## 716 2.98e-04 2.40e-05 5.00e-04 -9.35e-04 2.47e-04 4.29e-04 3.30e-04  
## 717 1.22e-02 1.71e-03 1.62e-02 8.65e-03 1.62e-02 8.20e-03 2.82e-02  
## 718 5.66e-04 3.54e-03 1.04e-02 6.73e-03 -2.07e-02 1.20e-02 -1.65e-02  
## 719 1.04e-03 3.80e-03 1.64e-02 9.53e-03 -1.34e-02 4.67e-03 1.34e-02  
## 720 -3.21e-04 -3.22e-03 -6.66e-04 -2.21e-05 -1.96e-04 2.20e-04 -4.23e-04  
## 721 2.52e-03 1.81e-03 -3.72e-04 -8.67e-04 -5.82e-04 -6.17e-04 -1.04e-04  
## 722 -1.19e-02 9.00e-04 -5.72e-03 -3.32e-03 -7.06e-03 -3.23e-03 -1.72e-02  
## 723 9.20e-03 -4.25e-02 -1.16e-02 -1.48e-02 -7.25e-03 -1.40e-02 -5.54e-03  
## 724 -7.83e-03 -2.77e-03 -1.16e-02 -2.80e-03 -1.45e-02 -3.38e-03 1.10e-02  
## 725 -2.22e-03 -9.51e-03 -2.97e-03 -6.20e-03 -3.97e-03 -6.86e-03 -4.18e-03  
## 726 7.26e-03 -1.79e-03 -3.42e-04 3.30e-04 3.50e-04 9.74e-04 -1.48e-05  
## 727 -2.38e-02 -1.93e-03 1.39e-02 8.46e-03 1.46e-02 9.55e-03 -2.75e-02  
## 728 -1.71e-02 2.36e-02 2.60e-02 3.59e-02 3.38e-02 -1.16e-02 -1.82e-02  
## 729 -4.57e-04 -6.63e-04 4.18e-04 -7.39e-04 4.05e-04 3.68e-04 -7.15e-04  
## 730 -1.40e-02 1.37e-02 -3.11e-02 -2.36e-02 3.12e-02 4.16e-02 -3.25e-02  
## 731 -1.93e-04 -6.38e-03 -1.77e-03 -2.21e-03 -1.95e-03 -2.23e-03 -2.53e-03  
## 732 -1.97e-02 -3.44e-03 -1.86e-02 1.14e-02 1.00e-02 7.69e-03 1.58e-02  
## 733 4.21e-05 1.83e-04 8.23e-04 -2.27e-04 7.02e-04 7.06e-04 6.46e-04  
## 734 1.30e-02 -2.92e-03 1.41e-02 1.07e-02 -2.27e-02 9.35e-03 2.83e-02  
## 735 -6.20e-04 3.64e-03 9.46e-03 8.44e-03 -1.37e-02 1.00e-02 -1.16e-02  
## 736 1.13e-02 -1.39e-02 -1.65e-02 1.25e-02 -1.11e-02 -1.76e-02 -4.71e-03  
## 737 6.38e-03 3.27e-03 6.20e-04 1.04e-03 3.98e-04 1.19e-03 -7.70e-03  
## 738 8.17e-03 -3.88e-04 -1.72e-02 8.64e-03 1.03e-02 3.83e-03 1.28e-02  
## 739 -1.69e-03 -2.10e-03 1.36e-03 1.85e-03 1.08e-03 1.44e-03 1.97e-03  
## 740 2.23e-03 1.76e-03 1.95e-03 -1.44e-03 -2.16e-03 -1.41e-03 1.41e-03  
## 741 -1.65e-02 -2.13e-02 1.09e-02 -3.72e-02 -3.55e-02 1.16e-02 1.74e-02  
## 742 -1.69e-02 1.22e-02 -6.36e-03 3.17e-02 -1.24e-02 -7.80e-03 1.54e-02  
## 743 5.30e-04 -1.57e-04 2.54e-05 1.06e-05 -5.33e-06 -1.35e-06 8.31e-06  
## 744 -5.92e-03 2.65e-02 7.41e-03 9.50e-03 4.32e-03 8.74e-03 2.79e-03  
## 745 -3.03e-04 -8.26e-04 -1.10e-03 7.66e-03 -4.18e-04 -3.92e-03 8.00e-04  
## 746 3.65e-05 -8.34e-04 -1.22e-04 -6.48e-04 -5.24e-05 -5.32e-04 5.37e-05  
## 747 -2.13e-02 -4.00e-03 1.22e-02 9.76e-03 -3.75e-02 6.61e-03 2.02e-02  
## 748 4.15e-04 3.65e-04 3.27e-05 -9.51e-05 -8.92e-05 -1.11e-04 2.81e-05  
## 749 -9.50e-03 -1.26e-03 9.07e-03 7.39e-03 -3.40e-03 -5.47e-03 -2.94e-03  
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## 751 3.72e-03 -3.74e-03 1.95e-03 2.23e-03 1.67e-03 -5.71e-03 2.17e-03  
## 752 -3.09e-03 6.75e-04 5.23e-03 -1.65e-02 -1.69e-02 -1.57e-02 9.86e-03  
## 753 -1.68e-02 -2.32e-02 -3.21e-02 -3.68e-02 1.27e-02 1.13e-02 -3.01e-02  
## 754 -1.01e-02 3.41e-03 -5.75e-03 5.68e-04 1.66e-02 -2.56e-03 8.95e-03  
## 755 2.47e-03 1.97e-03 -6.35e-05 -3.95e-04 -3.57e-04 -4.45e-04 3.87e-04  
## 756 -8.24e-05 -6.32e-03 -1.71e-03 -2.04e-03 -2.05e-03 -2.14e-03 -2.63e-03  
## 757 2.01e-02 8.19e-03 2.51e-02 -8.82e-03 -1.28e-02 -9.55e-03 -2.57e-02  
## 758 -2.31e-04 9.98e-04 2.22e-04 6.26e-04 -2.71e-03 1.11e-03 -2.58e-03  
## 759 9.18e-07 -6.90e-03 -1.93e-03 -2.34e-03 -2.02e-03 -2.24e-03 -2.60e-03  
## 760 2.13e-02 -4.03e-04 -1.26e-02 -8.23e-03 -1.81e-02 -1.06e-02 1.27e-02  
## 761 1.55e-02 2.44e-04 -8.87e-03 -6.60e-03 -7.54e-03 -5.14e-03 -1.38e-02  
## 762 -5.30e-03 -7.44e-03 -9.99e-03 1.92e-03 5.36e-03 3.76e-03 -6.14e-03  
## 763 2.39e-03 1.55e-03 -3.08e-04 -7.76e-04 -4.22e-04 -4.31e-04 -1.23e-04  
## 764 3.16e-03 1.11e-02 1.18e-02 9.25e-03 1.20e-02 1.13e-02 -2.90e-02  
## 765 1.78e-02 -3.98e-03 -2.71e-02 8.59e-03 8.85e-03 5.91e-03 1.59e-02  
## 766 -6.59e-04 -2.74e-03 -5.82e-04 -3.61e-04 -1.96e-04 3.70e-05 -8.06e-04  
## 767 -1.59e-02 -4.16e-03 1.35e-02 1.08e-02 9.95e-03 -2.03e-02 1.29e-02  
## 768 -4.11e-03 8.60e-03 -1.20e-02 -1.01e-02 6.92e-03 9.69e-03 6.36e-03  
## 769 -9.20e-04 -7.76e-03 -1.97e-03 -3.64e-03 -2.76e-03 -3.07e-03 -2.90e-03  
## 770 -1.18e-02 9.02e-04 -6.07e-03 -9.06e-04 -9.90e-03 -4.32e-03 1.02e-02  
## 771 -1.81e-04 2.71e-02 7.43e-03 8.70e-03 8.71e-03 8.88e-03 1.11e-02  
## 772 1.39e-02 1.73e-02 -7.05e-03 3.14e-02 2.48e-02 -8.76e-03 -2.21e-02  
## 773 2.88e-02 4.59e-04 -1.86e-02 -1.29e-02 1.70e-02 -2.01e-02 5.02e-03  
## 774 -1.67e-05 -7.38e-04 -5.31e-04 -2.17e-03 -3.40e-04 5.56e-03 1.07e-04  
## 775 4.47e-03 4.09e-03 -2.30e-02 1.18e-02 1.18e-02 1.09e-02 1.58e-02  
## 776 -1.47e-02 5.68e-03 2.16e-02 -3.74e-03 -4.60e-03 -3.33e-03 -1.06e-02  
## 777 1.76e-03 -6.76e-03 -2.63e-03 -4.72e-03 -3.20e-03 -5.07e-03 1.03e-02  
## 778 9.31e-03 -4.68e-02 -1.27e-02 -1.97e-02 -1.00e-02 -1.68e-02 -5.38e-03  
## 779 3.17e-03 -4.06e-03 1.76e-03 -4.03e-03 -4.16e-03 1.62e-03 1.84e-03  
## 780 -5.22e-03 2.42e-02 7.48e-03 1.14e-02 5.22e-03 8.30e-03 3.79e-03  
## 781 -3.86e-03 5.90e-03 -8.77e-03 -9.04e-03 2.68e-03 5.19e-03 8.92e-04  
## 782 8.01e-03 -2.87e-02 -1.36e-02 -1.99e-02 -9.96e-03 3.90e-02 -8.74e-03  
## 783 5.79e-05 1.90e-04 2.20e-04 2.38e-04 -2.44e-04 2.99e-04 -1.71e-04  
## 784 -1.10e-02 1.83e-02 2.15e-02 3.69e-02 1.95e-02 -2.40e-02 1.17e-02  
## 785 -2.54e-03 -6.69e-03 -4.50e-03 1.95e-03 -3.78e-03 -5.00e-03 -2.09e-03  
## 786 9.56e-03 4.83e-03 5.87e-03 -9.38e-03 3.75e-03 -1.16e-02 1.41e-03  
## 787 1.36e-02 1.00e-02 -1.37e-02 -1.30e-02 8.90e-03 1.09e-02 -1.30e-02  
## 788 -6.96e-03 -5.58e-03 4.97e-03 3.23e-03 6.67e-03 4.27e-03 -5.54e-03  
## 789 1.10e-04 1.39e-04 -4.54e-04 2.43e-04 1.39e-04 1.79e-04 1.74e-04  
## 790 1.13e-03 1.37e-03 -1.14e-03 -1.40e-03 -1.41e-03 1.75e-03 1.43e-03  
## 791 -8.21e-04 -2.14e-03 -2.38e-04 4.24e-04 2.80e-04 1.45e-03 5.34e-04  
## 792 2.69e-04 -3.79e-04 -4.69e-04 3.25e-04 4.35e-04 2.34e-04 6.39e-04  
## 793 4.02e-03 8.92e-03 9.34e-03 8.91e-03 1.67e-02 1.31e-02 -2.12e-02  
## 794 -3.76e-03 1.07e-02 -2.51e-02 8.80e-03 7.63e-03 -2.44e-02 1.09e-02  
## 795 8.76e-03 -2.23e-03 1.36e-02 1.42e-02 1.33e-02 -1.80e-02 1.55e-02  
## 796 1.37e-02 -7.58e-03 -1.74e-03 -3.64e-03 -3.20e-03 -4.36e-03 -2.91e-03  
## 797 -2.13e-04 -5.60e-03 -1.19e-03 -1.23e-03 -1.57e-03 -1.81e-03 -1.88e-03  
## 798 -7.08e-03 -1.12e-02 -3.80e-02 -2.45e-02 1.68e-02 -3.10e-02 5.56e-03  
## 799 -6.46e-04 9.47e-03 1.43e-02 1.16e-02 1.20e-02 9.18e-03 1.26e-02  
## 800 -1.45e-02 1.01e-02 -6.24e-03 -2.68e-03 -1.11e-02 2.61e-02 1.01e-02  
## 801 4.43e-03 -1.27e-03 -1.93e-04 -1.48e-04 -9.33e-05 1.22e-04 2.67e-05  
## 802 -2.11e-03 3.38e-03 -2.27e-03 3.23e-03 2.80e-03 -1.86e-03 -3.19e-03  
## 803 1.39e-02 7.39e-03 2.35e-02 -3.43e-03 -8.36e-03 -6.11e-03 1.98e-02  
## 804 1.42e-03 5.73e-03 3.44e-03 3.42e-03 -1.43e-03 4.00e-03 -1.37e-03  
## 805 -3.29e-03 7.61e-03 5.12e-03 7.73e-03 -1.21e-02 -1.14e-02 3.35e-03  
## 806 2.30e-04 -1.03e-03 3.21e-03 -1.24e-03 -1.34e-04 -8.55e-04 1.42e-04  
## 807 -9.39e-03 3.11e-03 2.08e-02 -9.12e-03 -2.19e-02 -1.09e-02 1.16e-02  
## 808 1.41e-02 5.27e-04 -8.33e-03 -5.99e-03 -6.63e-03 -5.57e-03 -1.31e-02  
## 809 -8.28e-03 1.59e-03 1.97e-02 -2.44e-02 1.75e-02 -3.24e-02 7.52e-03  
## 810 -4.90e-03 1.16e-02 -6.34e-02 2.58e-02 -7.06e-02 1.91e-02 2.73e-03  
## 811 2.21e-03 -6.07e-04 -3.84e-05 1.47e-04 1.64e-04 1.67e-04 -6.12e-05  
## 812 -2.64e-04 1.21e-03 5.37e-03 -6.07e-03 5.01e-03 6.18e-03 3.27e-03  
## 813 -9.75e-04 -7.36e-03 -2.29e-03 -3.66e-03 -2.42e-03 -4.09e-03 -4.05e-03  
## 814 1.70e-02 3.53e-03 1.70e-02 8.05e-03 1.51e-02 8.37e-03 -2.65e-02  
## 815 1.16e-02 5.52e-03 -5.34e-03 -3.21e-03 1.98e-02 -5.74e-03 -1.96e-02  
## 816 -1.02e-02 -4.67e-03 -3.71e-03 7.79e-03 -3.05e-03 -6.07e-03 -4.47e-04  
## 817 -1.56e-02 2.28e-02 2.46e-02 -5.43e-03 1.97e-02 3.03e-02 8.92e-03  
## 818 -9.95e-06 2.60e-05 1.46e-05 2.40e-05 -5.98e-05 3.24e-05 -5.50e-05  
## 819 2.30e-03 -4.12e-03 1.67e-02 1.08e-02 -5.90e-03 -1.45e-02 -1.37e-03  
## 820 -8.37e-04 7.89e-04 1.12e-03 -8.81e-04 -6.79e-04 -5.03e-04 -7.42e-04  
## 821 6.81e-03 -1.89e-03 -1.29e-02 1.01e-02 -1.09e-02 1.48e-02 -4.40e-03  
## 822 -3.38e-03 1.06e-02 5.48e-03 7.53e-03 -2.23e-02 -2.15e-02 -2.41e-02  
## 823 1.34e-03 -5.08e-04 2.87e-05 -6.16e-05 -9.58e-06 1.42e-05 -5.68e-05  
## 824 1.98e-02 1.27e-02 2.59e-02 -8.26e-03 2.76e-02 -1.03e-02 2.07e-02  
## 825 -7.51e-03 1.50e-03 -2.68e-03 1.31e-03 -6.12e-03 -3.65e-04 7.89e-03  
## 826 1.38e-02 -6.27e-03 -1.60e-03 -2.23e-03 -2.46e-03 -3.55e-03 -2.49e-03  
## 827 5.62e-02 -1.52e-03 1.64e-02 -4.40e-02 2.16e-02 -4.17e-02 1.99e-02  
## 828 6.35e-04 -3.10e-03 8.92e-03 8.17e-03 -1.39e-02 -1.71e-02 -1.43e-02  
## 829 -1.53e-02 3.14e-02 2.06e-02 3.09e-02 -5.22e-02 3.06e-02 1.37e-02  
## 830 9.74e-04 -2.92e-04 -1.42e-05 7.84e-05 6.61e-05 9.17e-05 -5.57e-06  
## 831 7.43e-03 -3.58e-03 4.47e-03 3.51e-03 5.47e-03 4.96e-03 -8.55e-03  
## 832 1.03e-02 -1.25e-03 -1.73e-02 1.01e-02 1.36e-02 8.17e-03 -1.91e-02  
## 833 1.21e-02 2.20e-04 -5.78e-03 -1.34e-03 -6.29e-03 -2.26e-03 1.68e-02  
## 834 2.82e-03 -4.62e-03 -6.61e-03 -1.40e-02 1.10e-02 6.02e-03 1.40e-02  
## 835 3.94e-03 -2.90e-03 -5.05e-03 2.31e-03 3.03e-03 2.95e-03 -4.95e-03  
## 836 8.25e-03 -4.73e-02 -1.22e-02 -1.93e-02 -9.45e-03 -1.64e-02 -5.18e-03  
## 837 -4.15e-03 1.57e-03 5.25e-03 -1.04e-02 -8.36e-03 -8.84e-03 -8.67e-03  
## 838 4.83e-04 5.07e-04 8.59e-06 -1.29e-04 -1.28e-04 -2.29e-04 4.09e-05  
## 839 -4.86e-03 -8.79e-03 -2.97e-02 -1.69e-02 1.56e-02 -2.08e-02 5.57e-03  
## 840 -4.15e-05 3.50e-04 8.05e-03 -3.54e-03 -6.75e-04 7.90e-03 1.92e-04  
## 841 6.89e-03 2.56e-02 3.49e-03 -6.63e-04 1.35e-03 -9.12e-04 5.55e-03  
## 842 2.51e-03 -9.28e-04 9.53e-03 -1.94e-02 6.88e-03 9.55e-03 4.38e-03  
## 843 1.00e-02 2.98e-03 -3.45e-03 -2.63e-04 -7.90e-03 -4.19e-03 8.78e-03  
## 844 -7.56e-04 -2.39e-03 -2.76e-04 1.35e-04 -1.77e-04 2.40e-05 -3.21e-04  
## 845 4.22e-03 -2.22e-03 2.62e-03 2.61e-03 1.96e-03 1.25e-03 2.90e-03  
## 846 1.73e-03 -2.16e-03 5.24e-03 -5.30e-03 5.40e-03 -6.35e-03 3.65e-03  
## 847 -2.74e-03 -2.88e-03 1.89e-03 2.29e-03 1.33e-03 1.35e-03 2.36e-03  
## 848 -5.22e-03 -5.40e-03 3.10e-03 2.56e-03 2.17e-03 1.89e-03 4.28e-03  
## 849 -6.45e-05 9.48e-04 3.51e-06 4.84e-04 -4.52e-05 3.01e-04 -2.17e-04  
## 850 1.38e-03 1.07e-03 -1.08e-03 -1.05e-03 1.82e-03 -7.12e-04 -1.09e-03  
## 851 1.88e-02 -8.30e-03 -3.25e-03 -4.17e-03 -3.41e-03 -4.20e-03 -4.02e-03  
## 852 -2.83e-03 5.41e-03 6.04e-03 -1.95e-02 6.29e-03 -1.82e-02 -2.44e-02  
## 853 2.47e-03 1.64e-03 -2.98e-04 -6.05e-04 -4.06e-04 -5.14e-04 1.83e-04  
## 854 -4.86e-03 -1.22e-02 -4.37e-02 -3.02e-02 1.47e-02 -3.48e-02 6.57e-04  
## 855 -3.80e-03 -5.22e-03 2.62e-03 2.50e-03 -8.93e-03 1.88e-03 4.20e-03  
## 856 8.14e-03 -3.76e-02 4.02e-02 -1.96e-02 -9.12e-03 -1.73e-02 -3.97e-03  
## 857 2.67e-04 -6.47e-04 -3.20e-04 -5.13e-04 1.15e-03 -8.86e-04 1.00e-03  
## 858 1.00e-03 1.66e-03 1.46e-03 1.72e-03 9.18e-04 1.14e-03 1.09e-03  
## 859 -6.86e-04 -1.90e-03 -3.84e-04 -2.84e-04 -2.19e-04 -1.50e-04 -6.14e-04  
## 860 5.70e-04 -8.14e-05 3.97e-03 -1.75e-03 -1.12e-03 4.10e-03 5.07e-03  
## 861 2.22e-02 3.37e-03 2.48e-02 -7.73e-03 -9.41e-03 -3.46e-03 -1.40e-02  
## 862 1.09e-02 7.35e-03 2.08e-02 -9.14e-04 -8.41e-03 -5.07e-03 1.01e-02  
## 863 -1.13e-02 5.29e-04 -8.92e-03 -2.45e-03 -1.27e-02 -5.83e-03 1.07e-02  
## 864 1.52e-02 1.70e-02 -1.02e-02 -9.69e-03 2.82e-02 3.32e-02 -1.98e-02  
## 865 -1.61e-03 1.93e-03 4.55e-03 5.03e-03 5.43e-03 -4.28e-03 -4.88e-03  
## 866 -5.00e-04 -8.47e-03 -2.21e-03 -3.94e-03 -3.38e-03 -3.35e-03 -2.99e-03  
## 867 -5.10e-03 -1.96e-02 -3.85e-02 -3.26e-02 -3.99e-02 -2.72e-02 -5.05e-02  
## 868 1.39e-02 -3.73e-03 -1.02e-03 -4.28e-04 -1.19e-04 1.85e-03 6.46e-04  
## 869 6.38e-05 -2.26e-04 7.72e-04 -2.57e-04 -1.41e-04 -2.40e-04 -2.09e-04  
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## 871 2.79e-03 2.16e-03 -3.47e-04 -8.19e-04 -3.99e-04 -6.76e-04 8.47e-05  
## 872 9.90e-03 -8.82e-03 3.00e-02 -1.69e-02 -2.76e-02 -1.88e-02 2.92e-02  
## 873 4.32e-03 4.43e-03 1.37e-02 1.25e-02 -4.66e-03 1.61e-02 -2.81e-04  
## 874 4.62e-03 1.01e-02 1.09e-02 8.74e-03 1.19e-02 1.18e-02 -3.03e-02  
## 875 1.86e-02 3.56e-02 -1.32e-02 3.52e-02 2.29e-02 3.09e-02 1.37e-02  
## 876 -3.53e-04 -1.84e-03 2.94e-03 -2.56e-03 -1.75e-03 -2.16e-03 -1.93e-03  
## 877 -2.10e-03 -1.75e-03 -2.40e-03 1.36e-03 2.25e-03 1.89e-03 -1.18e-03  
## 878 1.41e-02 1.71e-02 -1.55e-02 7.03e-03 3.42e-03 5.33e-03 1.28e-03  
## 879 1.41e-02 4.12e-02 3.01e-02 3.65e-02 2.41e-02 2.96e-02 1.38e-02  
## 880 -1.41e-03 -2.83e-03 -7.31e-04 -1.01e-03 -5.35e-04 -1.10e-03 -1.42e-03  
## 881 1.51e-02 5.72e-03 -7.78e-03 -7.09e-03 2.38e-02 -8.71e-03 -2.41e-02  
## 882 8.04e-04 -3.96e-03 9.06e-03 -4.40e-03 -1.34e-03 -4.05e-03 -1.24e-04  
## 883 -5.33e-04 -1.25e-03 3.96e-03 -3.27e-03 3.27e-03 -4.22e-03 2.57e-03  
## 884 2.30e-05 -8.82e-03 -2.64e-03 -4.38e-03 -3.44e-03 -3.41e-03 -3.16e-03  
## 885 -2.51e-02 -7.62e-03 1.24e-02 3.04e-03 -3.99e-02 6.81e-03 -3.09e-02  
## 886 1.41e-02 -2.09e-02 -2.52e-02 -3.58e-02 -2.04e-02 1.63e-02 -1.28e-02  
## 887 -2.14e-02 4.75e-03 1.53e-02 1.32e-02 2.04e-02 1.49e-02 -4.59e-03  
## 888 -9.61e-03 2.36e-02 1.54e-02 3.72e-02 2.96e-02 -2.90e-02 2.83e-02  
## 889 9.17e-03 -1.35e-02 1.07e-02 -1.27e-02 -1.34e-02 -1.63e-02 1.09e-02  
## 890 -1.06e-02 9.46e-03 2.23e-02 -1.47e-02 2.28e-02 -1.73e-02 1.09e-02  
## 891 1.21e-02 -5.16e-04 1.74e-02 8.55e-03 -3.03e-02 4.94e-03 1.95e-02  
## 892 -6.73e-03 -1.72e-02 -1.63e-02 -1.94e-02 -1.43e-02 -1.64e-02 -1.10e-02  
## 893 1.64e-03 7.09e-04 1.20e-02 1.04e-02 9.76e-03 -1.08e-02 1.09e-02  
## 894 1.37e-02 -1.62e-02 -2.18e-02 -3.03e-02 1.26e-02 9.37e-03 2.05e-02  
## 895 9.68e-06 -1.28e-04 -1.64e-05 -8.02e-05 3.82e-06 -4.77e-05 1.70e-05  
## 896 2.74e-03 2.09e-03 -5.77e-03 1.19e-02 -3.21e-03 1.48e-02 -1.59e-04  
## 897 1.68e-02 2.85e-02 -1.03e-02 3.53e-02 -1.68e-02 3.08e-02 1.60e-02  
## 898 5.05e-03 -7.64e-03 -9.63e-03 -1.65e-02 1.20e-02 8.17e-03 1.57e-02  
## 899 3.77e-05 -6.32e-03 -1.77e-03 -2.08e-03 -2.10e-03 -2.15e-03 -2.70e-03  
## 900 -1.44e-02 5.45e-03 -4.99e-03 -2.07e-03 1.83e-02 -5.99e-03 1.02e-02  
## 901 1.98e-02 1.43e-02 -1.20e-02 3.54e-02 -1.87e-02 -1.34e-02 1.71e-02  
## 902 -1.23e-02 -5.34e-03 -4.10e-03 -8.12e-03 -3.64e-03 1.05e-02 -1.82e-03  
## 903 4.82e-03 -5.01e-03 2.60e-03 2.39e-03 1.86e-03 -7.84e-03 2.89e-03  
## 904 -8.60e-03 3.72e-03 -2.88e-03 1.40e-03 1.31e-02 -1.43e-03 6.77e-03  
## 905 -7.24e-03 2.98e-02 7.53e-03 7.95e-03 7.89e-03 1.09e-02 -3.22e-02  
## 906 -4.75e-03 8.64e-03 -1.30e-02 8.57e-03 7.66e-03 -1.10e-02 8.66e-03  
## 907 -2.65e-04 -5.03e-03 -9.37e-04 -1.16e-03 -1.66e-03 -1.61e-03 -1.76e-03  
## 908 2.00e-04 -6.93e-04 -5.24e-04 5.73e-03 -1.72e-04 -1.69e-03 9.50e-04  
## 909 1.67e-02 4.50e-03 2.48e-02 -4.95e-03 -6.36e-03 -2.92e-03 -1.12e-02  
## 910 2.03e-02 -5.75e-03 -3.40e-02 5.81e-03 1.38e-02 4.46e-03 -3.38e-02  
## 911 4.26e-05 -7.42e-04 8.31e-03 -4.19e-03 -1.36e-03 6.76e-03 -2.78e-04  
## 912 -5.93e-04 -2.87e-03 -6.41e-04 -3.74e-04 -2.31e-04 7.04e-05 -8.28e-04  
## 913 -1.78e-03 7.70e-04 -1.18e-04 8.62e-06 -2.72e-05 6.65e-05 3.18e-05  
## 914 -1.16e-02 -8.70e-04 -4.74e-03 -1.48e-03 -3.69e-03 4.59e-04 -7.94e-03  
## 915 -2.17e-02 -9.67e-03 1.48e-02 -3.05e-02 9.81e-03 6.97e-03 1.22e-02  
## 916 7.52e-04 1.31e-03 1.13e-03 1.40e-03 6.79e-04 8.04e-04 9.31e-04  
## 917 1.49e-02 -1.47e-03 1.64e-02 1.06e-02 -3.01e-02 8.58e-03 2.07e-02  
## 918 -1.81e-02 -1.88e-02 -2.23e-02 1.16e-02 -1.61e-02 -2.16e-02 -5.32e-03  
## 919 2.03e-04 -1.02e-04 -1.29e-05 -2.56e-05 -1.62e-05 -5.04e-05 -4.81e-05  
## 920 -5.98e-04 -5.68e-03 -1.44e-03 -1.94e-03 -1.74e-03 -2.16e-03 -2.27e-03  
## 921 1.84e-02 2.42e-03 1.47e-02 9.23e-03 1.11e-02 5.38e-03 1.94e-02  
## 922 3.45e-03 5.22e-03 -3.85e-03 -4.93e-03 4.84e-03 5.01e-03 -4.95e-03  
## 923 -1.85e-02 -1.29e-02 -1.87e-02 -2.41e-02 1.01e-02 7.91e-03 1.08e-02  
## 924 -1.69e-03 -2.10e-04 -3.62e-03 -3.17e-03 -3.75e-03 -3.59e-03 2.65e-03  
## 925 -1.29e-02 3.64e-03 2.00e-02 -1.95e-03 -3.25e-03 -4.04e-04 -7.82e-03  
## 926 1.83e-02 1.16e-02 2.57e-02 -9.02e-03 3.04e-02 -9.01e-03 -1.81e-02  
## 927 3.95e-04 5.65e-05 -1.06e-03 6.14e-03 7.74e-03 -2.65e-03 2.46e-04  
## 928 -1.94e-02 1.33e-03 1.44e-02 1.47e-02 -1.32e-02 1.48e-02 2.72e-02  
## 929 -1.79e-02 -4.64e-03 -2.13e-02 1.16e-02 1.02e-02 8.65e-03 1.32e-02  
## 930 -9.41e-03 -2.64e-03 -6.21e-03 1.04e-02 9.28e-03 -6.54e-03 9.74e-03  
## 931 2.91e-03 1.97e-03 -3.95e-05 -4.24e-04 -3.95e-04 -1.47e-04 3.71e-04  
## 932 -9.39e-03 1.46e-04 -3.62e-03 -3.39e-04 -4.79e-03 -4.98e-04 -1.18e-02  
## 933 3.04e-03 -3.62e-03 7.77e-03 -1.07e-02 7.42e-03 -1.08e-02 5.75e-03  
## 934 2.73e-02 6.69e-04 1.08e-02 -2.41e-04 1.29e-02 -9.47e-06 -4.06e-02  
## 935 -1.82e-02 1.06e-02 -8.81e-03 3.07e-02 -5.76e-03 -6.15e-03 -1.06e-02  
## 936 1.34e-03 -3.05e-03 -2.68e-03 7.59e-03 -2.32e-03 -6.04e-03 -4.72e-04  
## 937 -7.39e-04 -5.18e-03 -1.19e-03 -1.64e-03 -1.71e-03 -2.05e-03 -2.21e-03  
## 938 -5.30e-04 -1.34e-03 -6.35e-05 5.37e-05 -9.28e-05 6.01e-05 -2.69e-04  
## 939 2.63e-03 4.28e-03 -1.51e-02 1.08e-02 6.81e-03 8.39e-03 5.62e-03  
## 940 -2.40e-02 5.69e-04 1.49e-02 9.19e-03 1.58e-02 9.72e-03 2.79e-02  
## 941 1.78e-03 2.41e-03 2.18e-03 2.17e-03 9.39e-04 1.51e-03 1.95e-03  
## 942 3.98e-03 -7.22e-03 -7.65e-03 -1.53e-02 1.37e-02 9.35e-03 -6.98e-03  
## 943 -1.69e-02 -3.76e-04 -8.38e-03 -7.42e-03 -7.41e-03 -5.04e-03 -1.18e-02  
## 944 -5.00e-04 -7.74e-03 -1.82e-03 -3.12e-03 -2.82e-03 -3.15e-03 -2.11e-03  
## 945 1.25e-02 7.73e-05 1.99e-02 8.89e-03 -2.89e-02 6.65e-03 -2.12e-02  
## 946 -9.55e-03 1.62e-03 -1.26e-02 -2.83e-03 1.88e-02 -5.61e-03 9.89e-03  
## 947 5.58e-04 6.46e-04 -3.31e-05 -2.75e-04 -2.18e-04 -3.44e-04 -4.01e-05  
## 948 9.69e-03 -4.51e-02 -1.10e-02 -1.50e-02 -7.99e-03 -1.05e-02 -3.11e-03  
## 949 -1.83e-02 -5.92e-03 -2.69e-02 1.19e-02 1.01e-02 9.00e-03 1.53e-02  
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## 951 -1.76e-03 2.10e-03 4.04e-03 -7.28e-03 -9.91e-03 -8.25e-03 1.72e-03  
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## 953 1.01e-02 -4.71e-02 -1.23e-02 -1.99e-02 -1.08e-02 -1.59e-02 -4.95e-03  
## 954 -3.73e-03 1.37e-03 -4.21e-04 -6.24e-04 -3.80e-04 -1.60e-04 8.27e-05  
## 955 -3.13e-03 9.45e-03 5.53e-03 -1.57e-02 -1.91e-02 9.61e-03 2.57e-03  
## 956 1.12e-02 -1.01e-03 -1.05e-02 -9.93e-03 -1.02e-02 -9.97e-03 5.43e-03  
## 957 -2.23e-02 -3.32e-03 -1.74e-02 1.10e-02 1.41e-02 9.72e-03 -1.79e-02  
## 958 2.48e-03 3.81e-04 8.78e-03 -2.02e-02 7.97e-03 7.36e-03 2.86e-03  
## 959 -1.19e-03 -4.44e-03 -9.85e-04 -1.46e-03 -9.88e-04 -4.58e-04 -9.03e-04  
## 960 -6.81e-03 1.55e-02 6.47e-03 -2.30e-02 7.69e-03 8.26e-03 -2.92e-02  
## 961 -2.30e-04 -2.36e-04 -2.59e-04 1.79e-04 1.87e-04 1.79e-04 -2.63e-04  
## 962 8.33e-03 -4.15e-02 -1.10e-02 -1.43e-02 -6.81e-03 -1.36e-02 -5.89e-03  
## 963 1.58e-02 2.54e-02 -8.36e-03 3.34e-02 -1.62e-02 3.14e-02 1.62e-02  
## 964 1.09e-03 2.97e-02 8.57e-03 1.06e-02 9.31e-03 1.07e-02 1.31e-02  
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## 966 8.80e-03 -5.57e-03 3.59e-03 2.47e-03 4.18e-03 2.09e-03 9.05e-03  
## 967 -8.99e-03 1.94e-03 -2.42e-03 4.08e-04 -5.55e-03 -2.25e-03 6.97e-03  
## 968 1.16e-02 2.57e-03 -4.64e-03 -2.83e-03 -1.03e-02 -5.89e-03 1.00e-02  
## 969 5.44e-03 -7.90e-03 -9.60e-03 -1.72e-02 1.12e-02 7.96e-03 -1.46e-02  
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## 971 5.65e-03 -1.06e-02 3.23e-02 -1.51e-02 -1.32e-02 -6.73e-03 -9.35e-03  
## 972 -3.19e-04 4.19e-04 -2.04e-04 4.30e-04 4.40e-04 -1.68e-04 -1.85e-04  
## 973 -7.13e-03 2.05e-02 -6.46e-02 2.62e-02 4.74e-03 1.66e-02 -2.23e-03  
## 974 1.41e-02 5.91e-04 -8.34e-03 -6.00e-03 -6.66e-03 -5.57e-03 -1.31e-02  
## 975 1.98e-02 3.03e-03 1.40e-02 1.19e-02 1.13e-02 7.53e-03 1.75e-02  
## 976 -3.66e-03 -2.86e-03 1.72e-02 -2.13e-02 1.57e-02 -2.45e-02 7.04e-03  
## 977 -1.57e-03 1.97e-03 2.25e-03 -2.02e-03 1.77e-03 -2.48e-03 1.09e-03  
## 978 -1.31e-03 -6.33e-03 -1.40e-03 -2.84e-03 -2.38e-03 -2.71e-03 -2.67e-03  
## 979 4.51e-04 4.44e-04 -2.45e-05 -2.20e-04 -1.38e-04 -2.35e-04 -5.49e-05  
## 980 -3.65e-03 7.86e-03 4.40e-03 -5.76e-03 3.07e-03 5.52e-03 1.50e-03  
## 981 -1.10e-02 1.71e-03 -3.58e-03 -1.15e-03 -5.54e-03 -2.46e-03 -1.39e-02  
## 982 -4.19e-03 1.49e-03 -2.84e-04 -5.40e-04 -2.53e-04 -3.60e-05 2.90e-04  
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## 984 -5.30e-03 2.08e-02 6.47e-03 9.27e-03 4.65e-03 7.43e-03 1.77e-03  
## 985 -7.08e-05 -6.24e-03 -1.74e-03 -2.09e-03 -1.67e-03 -1.85e-03 -2.69e-03  
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## 987 -2.53e-04 -4.87e-04 -4.59e-05 -7.85e-06 -3.92e-05 -6.08e-05 -1.16e-04  
## 988 -4.54e-03 -2.67e-04 4.12e-03 -1.69e-03 -1.83e-03 4.34e-03 3.95e-03  
## 989 -1.02e-03 3.21e-04 -5.72e-06 -5.69e-05 -4.58e-05 -5.98e-05 8.46e-05  
## 990 4.45e-03 -1.20e-03 -1.42e-04 3.84e-04 2.68e-04 5.78e-04 2.55e-05  
## 991 7.65e-03 -2.05e-03 -4.04e-04 5.79e-04 4.53e-04 1.13e-03 1.46e-04  
## 992 -4.39e-04 -1.14e-03 -2.09e-04 2.65e-04 3.17e-04 7.95e-04 -4.83e-05  
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## 994 3.04e-02 -4.76e-03 -2.25e-02 -1.61e-02 -1.53e-02 -1.13e-02 -2.17e-02  
## 995 -7.60e-03 8.57e-04 -2.23e-03 1.23e-03 -4.80e-03 -5.48e-04 7.18e-03  
## 996 3.33e-03 2.18e-03 -2.63e-04 -6.19e-04 -6.41e-04 -3.32e-04 2.56e-04  
## 997 -4.22e-03 1.55e-02 4.91e-03 8.82e-03 1.20e-02 -2.40e-02 -2.09e-02  
## 998 1.19e-02 6.21e-03 -5.03e-03 -1.30e-03 1.70e-02 -6.19e-03 7.72e-03  
## 999 -1.02e-02 -4.00e-03 -1.26e-02 -6.08e-03 -8.71e-03 -1.11e-03 -1.36e-02  
## 1000 -2.06e-02 7.54e-04 1.35e-02 1.08e-02 1.01e-02 7.75e-03 2.03e-02  
## 1001 -1.28e-04 -1.34e-04 4.16e-07 5.40e-05 3.69e-05 8.49e-05 -1.54e-06  
## 1002 -8.82e-04 -4.73e-03 -1.13e-03 -1.65e-03 -1.53e-03 -2.04e-03 -2.01e-03  
## 1003 2.32e-03 1.03e-02 2.12e-02 1.21e-02 2.40e-02 1.29e-02 -6.52e-03  
## 1004 -1.56e-02 1.01e-02 -1.15e-02 -8.16e-03 -1.31e-02 3.21e-02 -2.49e-02  
## 1005 1.60e-02 -9.37e-04 -1.03e-02 -1.02e-02 -9.11e-03 -7.72e-03 -1.43e-02  
## 1006 -1.38e-02 1.19e-02 -1.78e-02 3.63e-02 -2.06e-02 -1.27e-02 1.48e-02  
## 1007 -2.72e-03 -4.94e-03 -1.28e-03 -2.60e-03 -1.22e-03 -2.47e-03 -1.72e-03  
## 1008 -3.94e-03 1.53e-02 6.60e-03 -2.06e-02 3.80e-03 9.65e-03 1.44e-03  
## 1009 9.74e-04 8.39e-04 1.61e-03 1.49e-03 -4.19e-03 1.38e-03 1.59e-03  
## 1010 -2.19e-02 -2.05e-02 1.12e-02 6.00e-03 2.06e-02 -4.07e-02 -1.55e-02  
## 1011 -3.89e-03 1.93e-02 -1.99e-02 1.01e-02 4.31e-03 8.69e-03 1.65e-03  
## 1012 1.31e-02 -4.33e-02 -1.38e-02 -2.07e-02 4.13e-02 -2.00e-02 -2.40e-02  
## 1013 1.52e-02 -5.69e-02 -1.63e-02 -2.76e-02 -2.35e-02 -2.91e-02 -2.65e-02  
## 1014 -3.03e-03 -2.71e-03 2.38e-03 2.16e-03 2.46e-03 2.02e-03 -5.01e-03  
## 1015 2.36e-03 -1.27e-03 -1.02e-04 -5.29e-04 -4.15e-04 -6.39e-04 -5.42e-04  
## 1016 5.47e-03 -1.86e-03 9.28e-03 1.02e-02 1.26e-02 -2.65e-02 1.74e-02  
## 1017 -1.40e-03 -6.35e-03 -1.44e-03 -3.03e-03 -2.74e-03 -3.14e-03 -2.57e-03  
## 1018 -3.25e-03 5.70e-03 3.96e-03 -4.43e-03 2.48e-03 3.56e-03 9.86e-04  
## 1019 -1.79e-03 2.98e-03 2.71e-03 -2.94e-03 2.61e-03 -3.64e-03 1.31e-03  
## 1020 -2.48e-02 -1.02e-02 -4.03e-02 2.88e-03 1.25e-02 5.15e-03 -3.61e-02  
## 1021 -2.74e-02 7.34e-04 1.85e-02 1.05e-02 -1.89e-02 7.90e-03 2.82e-02  
## 1022 -2.18e-02 3.94e-03 1.61e-02 1.12e-02 1.10e-02 7.72e-03 1.61e-02  
## 1023 -6.34e-03 -3.72e-03 -1.34e-03 -2.86e-03 -5.95e-04 -2.07e-03 -1.95e-04  
## 1024 -8.44e-03 3.71e-03 -2.63e-03 1.47e-03 1.28e-02 -1.31e-03 6.59e-03  
## 1025 4.68e-03 -3.22e-03 1.22e-02 -1.06e-02 -7.82e-03 1.15e-02 -8.41e-03  
## 1026 -1.34e-02 -2.30e-03 -1.39e-02 -7.14e-03 -1.25e-02 -6.20e-03 2.08e-02  
## 1027 1.39e-02 2.25e-02 -9.29e-03 3.17e-02 -1.01e-02 3.29e-02 2.33e-02  
## 1028 -1.82e-02 3.75e-03 1.44e-02 1.08e-02 9.49e-03 6.43e-03 1.23e-02  
## 1029 1.43e-02 1.24e-02 5.89e-03 7.33e-03 8.86e-03 -1.62e-02 -1.37e-02  
## 1030 1.14e-02 4.51e-03 -4.12e-03 5.45e-04 1.69e-02 -3.18e-03 9.15e-03  
## 1031 -1.84e-03 6.35e-04 2.30e-05 -9.08e-05 -1.02e-04 -7.45e-06 2.06e-04  
## 1032 7.41e-03 -6.04e-03 -9.03e-03 2.34e-03 1.46e-03 1.48e-03 3.49e-03  
## 1033 -1.49e-03 4.49e-04 -4.38e-05 -8.35e-05 -8.41e-05 -5.09e-05 7.00e-05  
## 1034 -1.19e-05 6.75e-05 1.19e-05 4.10e-05 3.91e-06 2.58e-05 -8.08e-06  
## 1035 3.82e-03 4.14e-03 8.73e-03 8.21e-03 -2.04e-02 1.30e-02 -1.75e-02  
## 1036 -2.00e-02 6.32e-03 1.51e-02 1.19e-02 1.52e-02 1.12e-02 2.09e-02  
## 1037 3.47e-02 2.08e-02 2.67e-02 3.82e-02 -1.91e-02 -1.69e-02 -2.16e-02  
## 1038 1.68e-02 8.02e-04 -7.76e-03 -3.02e-03 -1.32e-02 -4.84e-03 1.19e-02  
## 1039 -8.02e-04 -3.15e-03 -4.03e-04 -5.92e-04 -6.69e-04 -4.80e-05 -6.65e-04  
## 1040 -1.94e-02 2.76e-03 1.44e-02 1.39e-02 1.15e-02 8.68e-03 1.70e-02  
## 1041 3.20e-02 -4.12e-03 -2.39e-02 -1.79e-02 -1.68e-02 -1.16e-02 -2.39e-02  
## 1042 -1.82e-03 4.30e-03 3.85e-03 -5.59e-03 3.99e-03 -5.95e-03 1.68e-03  
## 1043 8.10e-03 -1.34e-03 1.77e-02 9.23e-03 -1.67e-02 1.10e-02 -7.09e-03  
## 1044 6.56e-04 4.31e-04 6.20e-04 -5.11e-04 -5.79e-04 -5.17e-04 -8.75e-04  
## 1045 -3.86e-03 1.60e-02 7.02e-03 1.03e-02 5.16e-03 -2.16e-02 4.33e-03  
## 1046 -1.36e-03 -3.39e-03 -6.88e-04 -1.17e-03 -8.65e-04 -6.43e-04 -8.47e-04  
## 1047 -3.30e-04 2.70e-02 7.54e-03 8.79e-03 8.83e-03 8.95e-03 1.14e-02  
## 1048 -5.71e-03 6.94e-03 -1.17e-02 -1.04e-02 3.06e-02 3.90e-02 -2.35e-02  
## 1049 9.97e-04 9.20e-03 1.10e-02 1.03e-02 1.19e-02 9.79e-03 1.72e-02  
## 1050 1.20e-02 1.27e-02 8.52e-03 9.15e-03 -9.97e-03 -1.12e-02 -8.48e-03  
## 1051 -6.62e-03 -6.78e-03 -1.18e-02 -1.42e-02 3.02e-02 -1.66e-02 -2.40e-02  
## 1052 -7.78e-03 -1.90e-03 -1.74e-02 -7.62e-03 -2.07e-02 -9.19e-03 1.06e-02  
## 1053 -7.78e-04 -1.50e-03 -2.38e-04 -1.70e-04 -2.63e-04 -2.32e-04 -4.95e-04  
## 1054 1.38e-02 1.37e-03 -6.94e-03 -4.27e-03 -8.78e-03 -5.65e-03 -1.92e-02  
## 1055 1.59e-02 1.21e-02 -1.05e-02 3.20e-02 -1.03e-02 -9.59e-03 2.33e-02  
## 1056 1.24e-02 3.73e-03 -4.83e-03 -1.52e-03 -9.79e-03 -4.99e-03 9.69e-03  
## 1057 -1.57e-02 1.04e-02 -1.37e-02 -8.17e-03 -1.39e-02 3.38e-02 2.06e-02  
## 1058 -1.08e-03 -2.63e-03 -3.54e-04 -5.64e-04 -4.52e-04 -3.85e-04 -4.93e-04  
## 1059 -5.56e-04 -1.04e-03 -1.06e-03 -4.85e-03 -8.22e-04 9.52e-03 4.08e-05  
## 1060 -3.85e-03 7.31e-03 4.60e-03 6.15e-03 3.59e-03 -8.24e-03 1.82e-03  
## 1061 -2.02e-03 3.75e-03 4.14e-03 -1.20e-02 5.09e-03 -1.18e-02 -1.72e-02  
## 1062 -2.29e-03 5.05e-03 4.52e-03 -5.45e-03 4.34e-03 -6.16e-03 2.37e-03  
## 1063 -1.57e-02 1.17e-02 -1.51e-02 3.48e-02 -1.35e-02 -1.05e-02 2.63e-02  
## 1064 4.51e-04 3.77e-04 8.31e-06 -1.25e-04 -1.19e-04 -1.44e-04 9.43e-06  
## 1065 -1.64e-02 -1.87e-02 1.24e-02 -2.31e-02 1.39e-02 -2.44e-02 2.11e-02  
## 1066 -8.66e-03 2.32e-03 2.18e-02 -1.23e-02 -2.72e-02 -1.37e-02 1.45e-02  
## 1067 -3.01e-03 5.88e-03 4.65e-03 -6.80e-03 4.37e-03 -8.04e-03 1.73e-03  
## 1068 1.71e-02 1.44e-04 -1.08e-02 -1.06e-02 -9.80e-03 -8.21e-03 -1.44e-02  
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## 1070 5.40e-04 -1.40e-04 7.81e-03 1.09e-02 -5.68e-03 -6.83e-03 -4.97e-03  
## 1071 -1.26e-02 6.13e-03 -3.18e-03 9.10e-04 1.71e-02 -3.98e-03 9.03e-03  
## 1072 -4.31e-05 -7.00e-03 -1.93e-03 -2.35e-03 -2.02e-03 -2.25e-03 -2.57e-03  
## 1073 2.54e-03 -5.11e-03 -5.23e-03 1.00e-02 1.14e-02 -1.39e-02 1.57e-02  
## 1074 2.51e-03 -1.23e-03 -2.48e-05 -3.70e-04 -3.77e-04 -6.23e-04 -3.66e-04  
## 1075 -1.87e-02 4.62e-02 2.58e-02 4.04e-02 2.42e-02 3.59e-02 1.54e-02  
## 1076 1.91e-03 6.01e-03 -6.42e-03 1.17e-02 1.17e-02 1.03e-02 1.26e-02  
## 1077 -2.08e-02 5.54e-04 1.38e-02 1.14e-02 9.98e-03 8.06e-03 2.00e-02  
## 1078 -7.59e-04 -1.15e-03 -1.46e-04 -7.76e-05 7.55e-05 4.10e-04 -7.65e-05  
## 1079 7.42e-03 1.06e-03 1.93e-02 6.75e-03 -1.91e-02 7.88e-03 -1.00e-02  
## 1080 1.25e-02 2.17e-03 -5.73e-03 -3.23e-03 -8.12e-03 -5.00e-03 -1.82e-02  
## 1081 5.40e-04 6.80e-04 5.51e-07 -2.25e-05 7.58e-05 1.55e-04 1.83e-04  
## 1082 1.75e-02 2.63e-03 -1.05e-02 -5.83e-03 2.72e-02 -4.34e-03 -1.50e-02  
## 1083 1.61e-02 9.88e-04 -7.26e-03 -2.96e-03 -1.26e-02 -4.79e-03 1.23e-02  
## 1084 9.01e-03 -1.31e-02 1.24e-02 -1.50e-02 1.02e-02 -1.89e-02 1.06e-02  
## 1085 -8.79e-03 3.85e-03 -5.00e-03 5.72e-04 1.49e-02 -1.92e-03 7.91e-03  
## 1086 1.90e-02 2.10e-03 1.47e-02 9.23e-03 9.98e-03 6.34e-03 1.81e-02  
## 1087 3.58e-03 -5.31e-03 -5.49e-03 -8.80e-03 -4.46e-03 1.03e-02 -3.47e-03  
## 1088 -5.98e-03 9.46e-03 6.53e-03 7.90e-03 -9.24e-03 -9.70e-03 -8.43e-03  
## 1089 9.08e-03 -6.00e-03 5.55e-03 2.90e-03 7.01e-03 4.37e-03 -6.83e-03  
## 1090 -1.85e-04 6.07e-04 -2.60e-03 3.83e-04 2.18e-04 5.86e-04 -3.07e-03  
## 1091 6.35e-03 8.50e-03 -6.42e-03 5.58e-03 -6.63e-03 5.86e-03 -8.48e-03  
## 1092 -2.28e-02 -3.84e-03 1.14e-02 4.85e-03 1.40e-02 9.44e-03 -3.18e-02  
## 1093 -3.50e-03 5.76e-05 4.50e-03 -1.88e-02 -1.55e-02 -1.61e-02 -1.60e-02  
## 1094 2.52e-02 -3.84e-03 -1.61e-02 -1.19e-02 -2.29e-02 -1.70e-02 7.11e-03  
## 1095 -1.30e-04 3.22e-04 1.30e-04 2.24e-04 -5.73e-04 4.17e-04 -5.25e-04  
## 1096 2.37e-02 1.82e-02 7.57e-03 1.10e-02 5.02e-03 -2.57e-02 5.23e-03  
## 1097 1.64e-02 -8.30e-03 -2.42e-03 -4.58e-03 -4.06e-03 -4.63e-03 -3.29e-03  
## 1098 -9.03e-04 -3.79e-03 -5.88e-04 -8.12e-04 -1.11e-03 -1.58e-03 -1.36e-03  
## 1099 7.89e-03 -2.87e-02 3.85e-02 -1.68e-02 4.51e-02 -1.62e-02 -9.95e-03  
## 1100 3.41e-03 -3.81e-03 -6.10e-03 1.09e-02 1.56e-02 -1.14e-02 -1.78e-03  
## 1101 -1.31e-03 -2.33e-03 -3.73e-04 -8.05e-04 -6.32e-04 -6.28e-04 -6.44e-04  
## 1102 -2.50e-02 -9.48e-04 1.29e-02 8.43e-03 1.62e-02 8.99e-03 3.26e-02  
## 1103 9.72e-04 3.60e-03 -3.13e-03 8.36e-03 1.13e-02 9.59e-03 -1.37e-03  
## 1104 -2.60e-03 9.44e-04 -5.78e-05 -1.81e-04 -1.89e-04 1.73e-05 2.76e-04  
## 1105 -2.36e-03 8.00e-04 -8.68e-05 -1.61e-04 -1.17e-04 -7.23e-05 2.16e-04  
## 1106 -6.81e-03 1.42e-02 -1.07e-02 7.17e-03 3.84e-03 5.01e-03 2.35e-03  
## 1107 1.83e-04 1.02e-04 6.90e-04 6.00e-04 7.48e-04 -1.13e-03 -5.77e-04  
## 1108 1.42e-02 3.47e-02 -8.66e-03 3.46e-02 2.76e-02 3.14e-02 -2.60e-02  
## 1109 -2.19e-03 -2.46e-03 1.63e-03 1.77e-03 1.22e-03 1.45e-03 2.20e-03  
## 1110 -1.33e-02 8.98e-05 -2.02e-02 -1.33e-02 3.17e-02 -8.90e-03 -2.26e-02  
## 1111 1.31e-02 -5.55e-03 -2.60e-02 6.10e-03 1.96e-02 9.05e-03 -1.49e-02  
## 1112 5.80e-03 8.90e-03 4.58e-03 6.38e-03 4.42e-03 -4.91e-03 3.32e-03  
## 1113 8.55e-03 -3.66e-03 -8.43e-04 -1.73e-03 -1.37e-03 -1.50e-03 -1.40e-03  
## 1114 3.68e-03 5.30e-03 1.42e-02 1.23e-02 -7.76e-03 1.49e-02 2.30e-02  
## 1115 5.90e-03 -9.62e-03 -1.07e-02 -1.96e-02 1.57e-02 1.06e-02 -8.47e-03  
## 1116 1.11e-03 1.03e-03 -3.59e-03 1.77e-03 8.99e-04 1.34e-03 1.33e-03  
## 1117 -1.95e-02 2.16e-03 1.39e-02 1.21e-02 1.16e-02 8.65e-03 1.51e-02  
## 1118 4.50e-03 2.54e-03 3.82e-03 -4.54e-03 -3.56e-03 -3.56e-03 -4.00e-03  
## 1119 -5.41e-04 -1.56e-02 -1.46e-02 -1.35e-02 -2.36e-02 -2.21e-02 2.05e-02  
## 1120 -3.03e-03 3.80e-03 -6.30e-03 -5.71e-03 -7.54e-03 6.24e-03 2.49e-03  
## 1121 -5.31e-03 1.73e-02 -1.83e-02 7.77e-03 3.58e-03 7.32e-03 1.43e-03  
## 1122 -8.71e-03 6.85e-03 2.03e-02 -5.91e-03 1.90e-02 -7.91e-03 1.01e-02  
## 1123 1.69e-02 4.18e-03 -1.12e-02 -1.06e-02 2.95e-02 -9.44e-03 -1.84e-02  
## 1124 -1.91e-03 8.58e-04 -5.02e-03 -3.98e-03 -6.00e-03 -4.23e-03 2.57e-03  
## 1125 -1.43e-03 -5.90e-03 -1.40e-03 -2.92e-03 -2.39e-03 -2.95e-03 -2.45e-03  
## 1126 6.79e-03 6.05e-03 2.01e-02 8.14e-03 1.64e-02 5.50e-03 -2.22e-02  
## 1127 -5.77e-04 -9.09e-04 -7.27e-05 8.14e-05 9.57e-05 3.88e-04 7.06e-05  
## 1128 -3.53e-02 -2.65e-02 -1.13e-02 4.15e-02 -1.05e-02 -1.47e-02 4.93e-02  
## 1129 -1.21e-02 1.29e-02 -4.89e-03 -5.51e-04 1.65e-02 2.62e-02 8.89e-03  
## 1130 2.10e-04 -5.39e-03 -1.29e-03 -1.48e-03 -1.76e-03 -1.65e-03 -1.94e-03  
## 1131 -1.46e-02 -1.04e-02 -1.30e-02 -1.57e-02 9.06e-03 8.83e-03 1.07e-02  
## 1132 1.19e-05 -1.36e-03 -2.20e-04 -1.15e-03 -5.80e-05 -9.21e-04 7.67e-06  
## 1133 2.52e-03 1.73e-03 -3.53e-04 -8.85e-04 -4.56e-04 -5.38e-04 -1.93e-05  
## 1134 3.03e-03 1.83e-03 -4.06e-04 -9.02e-04 -4.64e-04 -3.87e-04 -1.03e-04  
## 1135 2.22e-02 1.53e-02 6.79e-03 -2.49e-02 6.11e-03 9.14e-03 -2.91e-02  
## 1136 -1.56e-03 -3.88e-03 -1.32e-03 -1.43e-03 -6.42e-04 -1.65e-03 -1.69e-03  
## 1137 1.26e-02 1.41e-03 -1.12e-02 -8.42e-03 -7.42e-03 -4.91e-03 -7.65e-03  
## 1138 -2.40e-04 -7.53e-03 -1.72e-03 -3.14e-03 -3.01e-03 -2.81e-03 -2.24e-03  
## 1139 2.01e-02 2.57e-03 1.47e-02 7.27e-03 9.89e-03 1.19e-03 1.92e-02  
## 1140 1.69e-02 1.91e-02 -1.79e-02 9.46e-03 5.10e-03 6.55e-03 2.04e-03  
## 1141 -5.09e-03 -1.00e-02 -1.01e-02 -9.18e-03 -1.32e-02 -1.20e-02 -1.93e-02  
## 1142 -1.84e-02 -7.31e-03 1.38e-02 -2.08e-02 9.80e-03 8.39e-03 1.16e-02  
## 1143 7.23e-04 -1.91e-03 5.25e-03 -5.25e-03 5.24e-03 -6.15e-03 3.57e-03  
## 1144 3.14e-02 3.49e-02 6.91e-03 6.87e-03 6.83e-03 9.69e-03 -3.82e-02  
## 1145 -9.42e-03 1.88e-03 -2.46e-03 4.50e-04 -5.68e-03 -2.31e-03 7.37e-03  
## 1146 1.51e-02 6.22e-03 -7.70e-03 -3.40e-03 1.80e-02 -7.33e-03 6.59e-03  
## 1147 -1.55e-03 3.69e-03 -1.59e-02 8.14e-03 9.39e-03 7.61e-03 1.23e-02  
## 1148 1.06e-04 -6.09e-03 -1.74e-03 -2.01e-03 -1.97e-03 -1.98e-03 -2.76e-03  
## 1149 -5.89e-03 2.71e-02 6.84e-03 9.17e-03 7.92e-03 1.01e-02 -2.81e-02  
## 1150 -3.68e-03 5.37e-03 4.16e-03 -4.53e-03 -4.70e-03 5.06e-03 -6.12e-03  
## 1151 2.15e-03 -7.42e-04 4.44e-06 3.21e-06 1.19e-05 1.01e-04 -1.94e-05  
## 1152 -2.42e-03 -4.39e-03 2.04e-03 -5.18e-03 1.97e-03 2.00e-03 3.55e-03  
## 1153 7.91e-04 6.39e-04 -1.17e-05 -2.22e-04 -1.16e-04 -2.68e-04 8.72e-05  
## 1154 8.57e-04 1.39e-03 -6.45e-03 1.16e-02 -9.27e-03 1.08e-02 -8.53e-03  
## 1155 3.10e-03 -5.67e-03 -6.99e-03 -1.31e-02 1.07e-02 7.23e-03 1.36e-02  
## 1156 1.21e-02 3.67e-04 -5.44e-03 -1.45e-03 -6.41e-03 -1.72e-03 1.53e-02  
## 1157 -2.73e-02 -1.30e-02 1.59e-02 -4.18e-02 2.05e-02 9.96e-03 -1.81e-02  
## 1158 -7.40e-03 -6.35e-03 3.08e-02 -1.61e-02 -1.09e-02 -1.50e-02 -1.22e-02  
## 1159 2.55e-03 -1.67e-03 -3.12e-03 1.67e-03 1.89e-03 1.73e-03 -2.89e-03  
## 1160 -1.43e-02 6.33e-03 2.26e-02 -3.00e-03 -8.04e-03 -4.88e-03 2.06e-02  
## 1161 -1.43e-03 -1.66e-03 1.26e-03 1.39e-03 1.38e-03 1.48e-03 -2.90e-03  
## 1162 -6.77e-04 -1.86e-03 -3.46e-04 -2.49e-04 -1.84e-04 -1.07e-04 -5.84e-04  
## 1163 2.44e-02 1.77e-02 6.53e-03 -2.41e-02 2.94e-03 8.81e-03 1.49e-04  
## 1164 1.51e-02 2.56e-02 8.45e-03 1.03e-02 6.66e-03 1.01e-02 5.17e-03  
## 1165 -2.25e-04 -3.14e-03 -6.94e-04 -3.97e-05 -2.18e-04 2.25e-04 -4.74e-04  
## 1166 -3.36e-03 2.58e-03 -7.64e-03 5.48e-03 -8.65e-03 5.80e-03 -1.06e-02  
## 1167 -6.33e-05 3.57e-04 5.29e-05 2.26e-04 2.16e-05 1.52e-04 -5.98e-05  
## 1168 5.04e-02 -6.41e-03 1.83e-02 -2.81e-02 -4.40e-02 -3.20e-02 8.37e-03  
## 1169 1.22e-02 -3.51e-03 -2.62e-02 6.89e-03 2.08e-02 6.88e-03 -1.53e-02  
## 1170 1.23e-04 2.88e-02 8.53e-03 1.41e-02 1.08e-02 1.08e-02 1.07e-02  
## 1171 1.97e-02 2.40e-02 -1.95e-02 1.08e-02 5.65e-03 1.12e-02 4.37e-03  
## 1172 1.98e-02 -1.25e-02 1.33e-02 -3.60e-02 8.83e-03 8.61e-03 1.39e-02  
## 1173 -1.60e-02 2.06e-02 2.35e-02 -1.26e-03 1.89e-02 2.52e-02 9.39e-03  
## 1174 5.44e-03 7.51e-03 4.72e-03 -4.94e-03 -3.80e-03 8.16e-03 -4.45e-03  
## 1175 1.67e-02 1.81e-02 -9.93e-03 -5.73e-03 1.93e-02 2.81e-02 7.76e-03  
## 1176 8.45e-03 -9.96e-03 -1.57e-02 9.27e-03 1.50e-02 -3.10e-02 -1.86e-02  
## 1177 -2.44e-03 5.21e-03 2.96e-03 4.21e-03 2.92e-03 -2.68e-03 2.17e-03  
## 1178 1.47e-02 -3.57e-02 -1.21e-02 -9.01e-03 3.82e-02 -1.19e-02 4.31e-02  
## 1179 -1.79e-03 -2.42e-03 8.01e-03 -1.40e-02 -9.39e-03 7.67e-03 -9.13e-03  
## 1180 -1.69e-02 -9.01e-04 1.39e-02 1.12e-02 1.64e-02 -1.21e-02 -2.32e-03  
## 1181 -1.71e-02 -1.65e-02 1.23e-02 -3.16e-02 -2.57e-02 1.12e-02 -2.08e-02  
## 1182 -2.94e-02 -3.20e-02 -5.27e-03 -6.79e-03 -6.87e-03 -8.82e-03 -1.23e-02  
## 1183 1.20e-03 1.26e-03 1.42e-03 -1.09e-03 1.07e-03 -1.46e-03 5.74e-04  
## 1184 -1.38e-03 6.04e-03 1.41e-02 1.10e-02 -5.98e-04 1.20e-02 1.01e-03  
## 1185 -1.85e-02 -8.11e-03 1.49e-02 1.22e-02 -1.03e-02 -1.62e-02 -2.52e-03  
## 1186 -2.00e-02 -9.99e-03 9.22e-03 8.22e-03 -3.18e-02 1.13e-02 3.24e-02  
## 1187 9.45e-03 -1.01e-02 -1.59e-02 -2.37e-02 1.87e-02 1.59e-02 -9.21e-03  
## 1188 1.14e-03 4.13e-04 -9.07e-04 -6.62e-04 -1.01e-03 -6.30e-04 5.97e-04  
## 1189 -1.32e-02 4.86e-03 -5.17e-03 -1.18e-03 2.01e-02 -4.03e-03 1.47e-02  
## 1190 -2.38e-03 4.22e-03 2.89e-03 3.91e-03 -1.64e-03 -1.55e-03 -1.73e-03  
## 1191 -5.11e-03 1.69e-02 -1.53e-02 9.46e-03 4.45e-03 7.57e-03 1.97e-03  
## 1192 -1.04e-02 2.38e-02 -2.35e-02 7.75e-03 7.99e-03 6.57e-03 9.94e-03  
## 1193 -2.51e-03 -2.95e-03 2.05e-03 1.80e-03 -5.04e-03 1.50e-03 2.62e-03  
## 1194 -1.27e-03 -6.87e-03 -1.81e-03 -3.26e-03 -2.39e-03 -3.24e-03 -2.71e-03  
## 1195 -6.00e-04 -6.68e-04 -1.14e-05 9.29e-06 5.05e-05 2.26e-04 -2.84e-05  
## 1196 1.62e-02 -8.39e-03 1.26e-02 -2.75e-02 1.01e-02 8.05e-03 1.21e-02  
## 1197 9.63e-03 -9.72e-03 -1.57e-02 1.12e-02 1.98e-02 -1.98e-02 -6.36e-03  
## 1198 -5.65e-03 1.95e-02 -1.90e-02 8.92e-03 3.72e-03 7.97e-03 2.19e-03  
## 1199 4.57e-02 -2.29e-03 2.16e-02 -2.38e-02 -3.98e-02 -2.89e-02 1.05e-02  
## 1200 -3.48e-04 9.66e-05 -8.50e-06 -2.46e-05 -1.60e-05 -1.90e-05 1.52e-05  
## 1201 9.15e-04 8.24e-03 9.35e-03 1.07e-02 7.77e-03 7.42e-03 6.35e-03  
## 1202 -1.43e-02 2.41e-04 -6.02e-03 -3.43e-03 -4.57e-03 -2.88e-03 -1.04e-02  
## 1203 -2.15e-02 -2.69e-05 1.33e-02 9.94e-03 9.99e-03 8.59e-03 1.95e-02  
## 1204 -5.34e-03 1.51e-02 6.66e-03 8.43e-03 1.05e-02 -2.29e-02 -1.89e-02  
## 1205 1.20e-02 1.59e-03 -6.24e-03 -2.98e-03 -7.23e-03 -5.09e-03 1.66e-02  
## 1206 2.51e-03 -4.83e-03 -4.46e-03 -7.86e-03 -7.39e-03 8.82e-03 1.02e-02  
## 1207 2.22e-02 -2.08e-03 -1.55e-02 -1.19e-02 -1.10e-02 -7.95e-03 -1.90e-02  
## 1208 -3.49e-02 -2.70e-02 -1.17e-02 -1.59e-02 -1.31e-02 3.94e-02 -2.03e-02  
## 1209 -2.10e-02 3.35e-04 1.32e-02 9.44e-03 1.01e-02 8.20e-03 1.85e-02  
## 1210 3.59e-03 2.31e-03 -6.09e-04 -1.20e-03 -6.69e-04 -6.57e-04 2.61e-05  
## 1211 -1.21e-02 7.33e-04 -9.28e-03 -4.41e-03 -1.06e-02 -5.11e-03 -2.08e-02  
## 1212 1.42e-02 1.45e-03 -7.46e-03 -5.39e-03 -9.16e-03 -5.60e-03 -2.07e-02  
## 1213 1.74e-03 1.43e-03 -1.87e-04 -6.27e-04 -4.24e-04 -5.26e-04 -6.88e-05  
## 1214 3.01e-03 -1.59e-03 -2.80e-04 -7.71e-04 -5.18e-04 -9.72e-04 -6.76e-04  
## 1215 -1.39e-02 5.11e-03 2.29e-02 -6.16e-03 -1.24e-02 -7.44e-03 2.24e-02  
## 1216 7.02e-03 1.84e-02 9.21e-03 6.97e-03 8.61e-03 6.30e-03 -1.02e-02  
## 1217 1.83e-02 1.37e-02 5.89e-03 -1.95e-02 7.14e-03 8.89e-03 6.57e-03  
## 1218 3.56e-03 1.10e-02 1.07e-02 1.02e-02 8.08e-03 9.22e-03 7.92e-03  
## 1219 5.61e-03 -5.92e-03 -7.81e-03 2.45e-03 3.76e-03 2.50e-03 6.55e-03  
## 1220 -1.35e-02 -5.12e-05 -6.57e-03 -4.06e-03 -4.70e-03 -3.15e-03 -1.07e-02  
## 1221 9.33e-03 -4.34e-02 -1.26e-02 -1.69e-02 -7.73e-03 -1.40e-02 -8.01e-03  
## 1222 -3.38e-03 2.58e-03 -1.32e-02 -1.17e-02 -2.11e-02 3.51e-02 2.21e-02  
## 1223 -3.02e-03 1.11e-03 -1.73e-04 -2.86e-04 -2.90e-04 -5.11e-06 2.84e-04  
## 1224 8.53e-03 -9.70e-03 -1.15e-02 -1.34e-02 -1.31e-02 1.14e-02 1.10e-02  
## 1225 6.27e-03 -5.25e-03 1.86e-02 -2.48e-02 1.91e-02 1.15e-02 -9.55e-03  
## 1226 -2.76e-03 -3.10e-03 -3.84e-03 1.64e-03 1.89e-03 1.65e-03 -4.07e-03  
## 1227 6.61e-03 4.45e-04 -1.14e-02 9.71e-03 1.18e-02 6.88e-03 -1.43e-02  
## 1228 -4.13e-03 7.72e-03 4.97e-03 -1.32e-02 -1.32e-02 8.35e-03 6.44e-03  
## 1229 3.11e-02 -5.03e-03 -2.30e-02 -1.75e-02 -2.18e-02 -1.36e-02 2.65e-02  
## 1230 -3.71e-03 1.34e-03 -3.02e-04 -5.28e-04 -2.89e-04 -1.01e-04 1.66e-04  
## 1231 -8.06e-03 -5.77e-03 -2.54e-03 -4.88e-03 8.69e-03 -4.23e-03 -1.30e-03  
## 1232 2.48e-03 -3.72e-03 -4.88e-03 9.31e-03 -6.43e-03 -1.18e-02 -6.20e-03  
## 1233 -1.33e-02 3.52e-04 -6.64e-03 -3.87e-03 -5.06e-03 -3.14e-03 -1.11e-02  
## 1234 -5.43e-04 -2.88e-03 -7.17e-04 -4.11e-04 -3.49e-04 -2.54e-06 -8.24e-04  
## 1235 -7.83e-03 4.78e-05 -5.33e-03 -9.15e-05 -7.87e-03 -1.72e-03 8.21e-03  
## 1236 -5.30e-03 2.08e-02 -2.44e-02 8.04e-03 6.02e-03 9.48e-03 -2.91e-02  
## 1237 -1.50e-03 -6.35e-03 -1.45e-03 -3.11e-03 -2.56e-03 -3.14e-03 -2.42e-03  
## 1238 1.70e-02 1.54e-02 7.35e-03 -2.05e-02 6.53e-03 8.20e-03 7.64e-03  
## 1239 1.52e-03 8.39e-04 7.65e-03 -1.33e-02 6.22e-03 7.18e-03 3.11e-03  
## 1240 8.96e-03 -4.65e-02 -1.24e-02 -1.95e-02 -9.90e-03 -1.67e-02 -5.28e-03  
## 1241 4.81e-03 3.18e-02 7.30e-03 9.89e-03 9.39e-03 1.14e-02 1.48e-02  
## 1242 -3.19e-02 8.83e-04 1.62e-02 4.41e-03 2.26e-02 6.94e-03 -1.71e-02  
## 1243 7.13e-03 -1.04e-02 -1.23e-02 -2.16e-02 1.63e-02 1.11e-02 -9.13e-03  
## 1244 1.09e-02 -2.95e-03 -1.57e-02 1.28e-02 -1.75e-02 1.14e-02 1.53e-02  
## 1245 -1.80e-02 1.04e-02 -1.07e-02 -8.95e-03 -1.30e-02 3.21e-02 2.12e-02  
## 1246 8.50e-03 -4.68e-02 -1.23e-02 -1.93e-02 -9.58e-03 -1.64e-02 -5.53e-03  
## 1247 1.85e-03 -3.20e-04 9.34e-03 9.01e-03 -1.30e-03 -4.50e-03 2.82e-04  
## 1248 1.55e-02 6.39e-03 2.65e-02 -1.01e-02 -8.64e-03 -8.01e-03 -1.39e-02  
## 1249 1.07e-04 -6.34e-03 -1.88e-03 -2.23e-03 -1.91e-03 -2.07e-03 -2.71e-03  
## 1250 1.44e-02 1.14e-03 -7.38e-03 -4.53e-03 -9.15e-03 -5.85e-03 -1.98e-02  
## 1251 -1.04e-02 2.11e-05 9.07e-03 8.78e-03 -2.86e-03 -5.65e-03 -3.27e-03  
## 1252 -7.78e-03 -4.33e-04 -1.70e-02 -1.93e-02 -1.44e-02 3.76e-02 -1.39e-02  
## 1253 -2.13e-03 -3.15e-03 -4.48e-03 1.71e-03 1.24e-03 1.21e-03 1.65e-03  
## 1254 -3.11e-03 1.12e-02 9.63e-03 9.82e-03 1.14e-02 8.63e-03 1.22e-02  
## 1255 3.95e-04 3.25e-04 -3.33e-05 -1.44e-04 -9.60e-05 -1.85e-04 1.29e-06  
## 1256 4.11e-02 -4.49e-03 2.11e-02 -2.22e-02 -3.65e-02 -2.44e-02 1.22e-02  
## 1257 -4.79e-03 2.18e-02 -2.37e-02 9.16e-03 3.78e-03 8.96e-03 2.73e-03  
## 1258 -1.50e-02 -2.49e-02 1.14e-02 -2.99e-02 1.00e-02 -3.28e-02 1.50e-02  
## 1259 -6.95e-03 2.03e-02 -1.97e-02 9.70e-03 4.60e-03 7.94e-03 3.10e-03  
## 1260 -9.14e-04 -5.96e-03 1.63e-02 -2.14e-02 -3.10e-02 -1.23e-02 -3.97e-02  
## 1261 -6.40e-03 9.20e-04 5.99e-03 5.30e-03 6.74e-03 -1.99e-03 5.99e-04  
## 1262 -1.44e-02 -5.08e-04 1.21e-02 -9.66e-03 1.33e-02 9.93e-03 -3.91e-03  
## 1263 2.55e-02 -1.50e-02 1.23e-02 -4.92e-02 7.62e-03 4.16e-03 1.43e-02  
## 1264 -1.71e-04 -2.65e-04 1.57e-04 -2.98e-04 1.59e-04 1.51e-04 2.39e-04  
## 1265 -8.50e-03 1.95e-02 1.78e-02 3.61e-02 1.61e-02 -3.89e-02 8.25e-03  
## 1266 2.84e-07 -1.09e-06 -3.01e-07 -5.63e-07 -4.18e-08 -3.91e-07 6.98e-08  
## 1267 -2.94e-03 9.85e-04 -1.38e-04 -3.23e-04 -2.26e-04 -1.11e-04 7.51e-05  
## 1268 -1.74e-04 -2.86e-03 -2.81e-03 -3.26e-03 -3.03e-03 -2.92e-03 -4.00e-03  
## 1269 -2.18e-04 -5.22e-03 -1.26e-03 -1.38e-03 -1.56e-03 -1.95e-03 -1.80e-03  
## 1270 6.58e-03 -1.07e-02 -1.19e-02 -1.97e-02 -1.77e-02 5.40e-03 1.04e-02  
## 1271 3.84e-04 1.55e-03 1.09e-02 -5.04e-03 1.19e-02 1.06e-02 -4.20e-04  
## 1272 3.96e-03 -4.62e-03 4.17e-03 2.27e-03 -5.20e-03 3.28e-03 -2.63e-03  
## 1273 -9.30e-05 -4.06e-05 -7.68e-06 -2.91e-05 -1.53e-05 -2.98e-05 -2.54e-05  
## 1274 1.95e-03 1.32e-03 -2.18e-04 -1.97e-04 -4.12e-05 -8.19e-05 -3.41e-05  
## 1275 6.66e-05 -4.38e-03 5.34e-03 -6.14e-03 -4.02e-03 -5.10e-03 -4.13e-03  
## 1276 -1.60e-03 -3.71e-03 -7.08e-04 -1.10e-03 -5.50e-04 -6.54e-04 -8.57e-04  
## 1277 7.75e-06 -1.44e-03 -2.34e-04 -1.21e-03 -6.14e-05 -9.72e-04 1.39e-05  
## 1278 -1.19e-03 -2.41e-03 -3.78e-04 -7.22e-04 -5.77e-04 -4.64e-04 -7.82e-04  
## 1279 -5.90e-03 3.20e-02 4.38e-03 4.79e-03 1.06e-02 1.17e-02 -2.80e-02  
## 1280 -2.54e-05 4.63e-04 9.00e-03 -3.96e-03 -7.92e-04 8.80e-03 3.43e-04  
## 1281 1.83e-03 1.29e-03 -2.20e-04 -6.51e-04 -3.69e-04 -4.42e-04 -1.21e-04  
## 1282 1.18e-02 1.27e-03 -4.20e-03 2.02e-04 -8.27e-03 -1.89e-03 8.98e-03  
## 1283 -3.27e-03 1.22e-02 4.49e-03 1.03e-02 -1.58e-02 -1.51e-02 -1.45e-02  
## 1284 1.44e-02 -1.94e-02 -2.06e-02 9.04e-03 -1.85e-02 -2.82e-02 -8.14e-03  
## 1285 1.64e-03 1.19e-03 -5.72e-05 -3.18e-04 -2.19e-04 -3.20e-04 1.37e-04  
## 1286 -4.44e-03 -1.76e-03 3.58e-03 3.07e-03 4.80e-03 3.96e-03 -1.87e-03  
## 1287 -5.04e-04 -1.06e-03 5.57e-04 6.61e-04 4.12e-04 -1.20e-03 7.07e-04  
## 1288 1.99e-02 1.30e-02 -1.38e-02 3.30e-02 -1.26e-02 -1.15e-02 -1.54e-02  
## 1289 -7.84e-04 -1.15e-03 6.87e-04 -1.34e-03 4.42e-04 4.75e-04 6.14e-04  
## 1290 2.62e-04 -9.73e-04 -6.69e-04 4.94e-03 -2.01e-04 -1.64e-03 8.36e-04  
## 1291 1.04e-02 -4.89e-02 -1.38e-02 -2.06e-02 -1.05e-02 -1.72e-02 -5.32e-03  
## 1292 -1.25e-03 -2.20e-03 -2.48e-03 1.13e-03 -2.79e-03 9.49e-04 1.32e-03  
## 1293 -2.58e-02 2.06e-03 1.57e-02 9.22e-03 1.63e-02 7.43e-03 -2.68e-02  
## 1294 2.29e-02 1.91e-03 1.29e-02 1.13e-02 1.09e-02 7.36e-03 1.82e-02  
## 1295 1.67e-03 -4.70e-03 -1.22e-02 -1.22e-02 -8.95e-03 1.16e-02 -8.88e-03  
## 1296 1.26e-02 -4.71e-02 -1.39e-02 -1.74e-02 -8.55e-03 -1.39e-02 -5.86e-03  
## 1297 6.44e-05 -6.97e-04 -5.80e-04 4.66e-03 -7.40e-05 -1.62e-03 7.06e-04  
## 1298 6.11e-03 -5.62e-03 4.21e-03 2.81e-03 -6.60e-03 4.06e-03 -4.04e-03  
## 1299 -1.91e-03 1.82e-03 2.52e-03 -1.81e-03 -1.49e-03 -1.10e-03 -1.44e-03  
## 1300 3.62e-03 2.34e-03 -5.80e-04 -1.20e-03 -6.44e-04 -6.46e-04 9.18e-05  
## 1301 -9.41e-03 -2.21e-04 -6.89e-03 -1.86e-03 -8.51e-03 -1.06e-03 -1.63e-02  
## 1302 -7.65e-03 1.83e-02 7.62e-03 7.09e-03 -1.85e-02 8.76e-03 -2.07e-02  
## 1303 -7.44e-03 4.02e-02 6.73e-03 2.44e-02 6.00e-03 2.28e-02 4.32e-03  
## 1304 -2.39e-03 8.03e-04 -4.67e-03 -4.20e-03 -4.67e-03 -3.66e-03 4.31e-03  
## 1305 -9.47e-03 -6.08e-04 -7.01e-03 -1.19e-03 -6.95e-03 -1.35e-03 1.58e-02  
## 1306 -1.24e-02 -9.87e-04 -1.00e-02 -4.40e-03 -9.45e-03 -5.25e-03 1.83e-02  
## 1307 -8.13e-03 -1.96e-03 -1.43e-02 -6.38e-03 -1.71e-02 -7.66e-03 8.93e-03  
## 1308 -1.41e-03 1.84e-03 -9.90e-03 8.10e-03 -9.50e-03 9.05e-03 1.18e-02  
## 1309 3.90e-03 3.26e-03 3.72e-03 -3.73e-03 3.80e-03 -3.77e-03 3.50e-03  
## 1310 -1.33e-02 2.41e-02 2.25e-02 -1.74e-02 2.04e-02 3.79e-02 9.04e-03  
## 1311 -1.86e-02 1.98e-02 2.38e-02 -3.20e-02 3.15e-02 3.73e-02 -3.90e-02  
## 1312 -4.74e-04 -9.81e-04 -3.44e-05 5.01e-04 3.55e-04 7.72e-04 1.65e-04  
## 1313 -4.41e-04 -8.16e-03 -2.32e-03 -4.05e-03 -3.23e-03 -3.39e-03 -3.00e-03  
## 1314 1.86e-02 -7.98e-03 -2.98e-03 -3.82e-03 -3.45e-03 -4.09e-03 -4.01e-03  
## 1315 -5.03e-03 1.03e-02 5.81e-03 -2.43e-02 -2.32e-02 1.19e-02 1.09e-02  
## 1316 -8.62e-04 2.84e-02 7.09e-03 1.21e-02 1.15e-02 1.01e-02 8.88e-03  
## 1317 -1.21e-02 -8.84e-03 -9.90e-03 -1.12e-02 -9.13e-03 1.20e-02 1.70e-02  
## 1318 3.79e-03 -1.42e-03 3.21e-03 2.89e-03 4.78e-03 3.71e-03 -2.72e-03  
## 1319 -1.24e-03 -7.59e-03 -1.92e-03 -3.34e-03 -2.57e-03 -3.25e-03 -2.96e-03  
## 1320 -4.39e-04 1.83e-04 -8.43e-06 2.42e-05 -5.07e-07 2.90e-05 3.64e-05  
## 1321 1.83e-03 2.76e-02 5.62e-03 6.01e-03 8.06e-03 9.65e-03 8.79e-03  
## 1322 1.33e-02 -8.29e-04 -7.24e-03 -3.89e-03 -5.14e-03 -2.23e-03 -1.02e-02  
## 1323 -3.89e-04 -3.65e-03 -4.35e-03 -4.79e-03 4.93e-03 -4.82e-03 -6.39e-03  
## 1324 -4.73e-03 -8.40e-03 -3.68e-02 -2.41e-02 1.47e-02 -2.96e-02 4.35e-03  
## 1325 -3.67e-03 7.87e-03 5.14e-03 7.74e-03 -1.13e-02 -1.12e-02 3.30e-03  
## 1326 3.46e-03 2.11e-03 -3.32e-04 -7.69e-04 -6.01e-04 -3.84e-04 3.80e-04  
## 1327 -3.25e-03 4.55e-03 4.69e-03 -6.09e-03 4.31e-03 -6.60e-03 2.53e-03  
## 1328 4.70e-03 1.21e-02 1.17e-02 1.16e-02 8.82e-03 1.08e-02 8.95e-03  
## 1329 -3.27e-03 1.21e-03 -4.46e-05 -1.19e-04 -1.77e-04 -7.42e-05 3.90e-04  
## 1330 -4.21e-04 -1.65e-03 4.88e-03 -5.00e-03 4.13e-03 -5.80e-03 3.13e-03  
## 1331 -3.77e-03 -1.44e-02 -1.28e-02 -1.06e-02 -9.35e-03 -8.33e-03 -8.14e-03  
## 1332 8.41e-03 -4.25e-02 -1.12e-02 -1.45e-02 -6.83e-03 -1.37e-02 -5.64e-03  
## 1333 -1.88e-02 -4.79e-03 -2.22e-02 1.19e-02 1.08e-02 8.04e-03 1.37e-02  
## 1334 -5.87e-05 -8.48e-05 -7.87e-06 1.85e-05 2.15e-05 4.43e-05 -7.70e-06  
## 1335 -3.92e-04 2.81e-02 8.18e-03 9.79e-03 8.56e-03 9.33e-03 1.12e-02  
## 1336 -3.73e-03 3.23e-03 1.51e-02 -2.39e-02 1.81e-02 -2.50e-02 8.52e-03  
## 1337 8.28e-03 -3.86e-02 -1.03e-02 -1.15e-02 -9.70e-03 -1.48e-02 4.18e-02  
## 1338 -5.06e-04 -1.56e-03 -2.94e-04 5.60e-04 4.56e-04 1.37e-03 7.62e-05  
## 1339 -9.74e-04 1.18e-03 1.05e-03 -9.86e-04 -7.78e-04 1.27e-03 -8.67e-04  
## 1340 -1.44e-03 -4.22e-03 -8.23e-04 -1.27e-03 -1.28e-03 -2.16e-03 -1.74e-03  
## 1341 2.08e-03 4.55e-03 1.79e-02 1.21e-02 -6.66e-03 1.44e-02 -1.26e-03  
## 1342 -1.52e-02 3.83e-03 -8.59e-03 -5.09e-03 2.38e-02 -5.70e-03 -2.36e-02  
## 1343 -1.01e-03 -2.11e-03 -4.13e-04 -1.21e-04 1.32e-04 1.07e-03 1.07e-04  
## 1344 1.64e-02 6.75e-04 -9.09e-03 -4.68e-03 -1.03e-02 -5.95e-03 1.87e-02  
## 1345 -3.42e-03 3.77e-03 -1.48e-02 7.00e-03 1.21e-02 7.78e-03 -1.36e-02  
## 1346 -2.23e-03 -3.66e-03 1.96e-03 1.50e-03 2.62e-03 -4.07e-03 -1.84e-03  
## 1347 -9.77e-04 -6.84e-03 -1.41e-03 -2.68e-03 -2.39e-03 -2.88e-03 -1.99e-03  
## 1348 1.56e-03 1.12e-03 -4.60e-03 1.88e-03 8.37e-04 1.42e-03 1.37e-03  
## 1349 1.95e-04 2.09e-04 -3.75e-06 4.18e-05 4.67e-05 8.21e-05 4.02e-05  
## 1350 -1.70e-02 9.67e-03 -1.24e-02 -7.66e-03 -1.26e-02 3.32e-02 2.12e-02  
## 1351 -6.71e-04 -7.67e-03 -2.01e-03 -3.61e-03 -3.09e-03 -3.15e-03 -3.05e-03  
## 1352 2.22e-02 8.83e-04 1.37e-02 8.52e-03 9.60e-03 6.25e-03 1.90e-02  
## 1353 5.89e-03 -1.41e-02 -1.15e-02 -2.08e-02 -1.13e-02 1.14e-02 -7.26e-03  
## 1354 -1.95e-02 2.04e-03 1.33e-02 1.22e-02 1.14e-02 8.92e-03 1.71e-02  
## 1355 -1.04e-02 1.35e-03 -4.41e-03 -4.61e-04 -7.77e-03 -3.42e-03 8.57e-03  
## 1356 -8.17e-03 1.74e-04 -4.57e-03 3.10e-04 -7.20e-03 -1.44e-03 8.34e-03  
## 1357 -1.92e-02 5.27e-03 2.69e-02 -7.14e-03 -6.88e-03 -5.05e-03 -1.15e-02  
## 1358 1.52e-02 4.08e-04 -9.12e-03 -6.51e-03 -7.15e-03 -5.82e-03 -1.37e-02  
## 1359 -3.84e-03 -3.98e-03 2.71e-03 2.43e-03 1.58e-03 1.66e-03 3.60e-03  
## 1360 2.96e-03 -1.75e-03 2.55e-03 1.77e-03 1.59e-03 1.03e-03 2.31e-03  
## 1361 1.11e-02 -8.03e-03 3.35e-02 -2.00e-02 -2.46e-02 -1.58e-02 -2.86e-02  
## 1362 -1.18e-02 5.03e-04 -6.47e-03 -2.23e-03 -7.53e-03 -3.09e-03 1.62e-02  
## 1363 2.21e-03 2.50e-03 -9.71e-03 1.05e-02 1.16e-02 4.17e-03 1.35e-02  
## 1364 -3.63e-03 -2.39e-03 3.68e-03 -1.92e-03 -2.16e-03 -2.47e-03 3.38e-03  
## 1365 1.29e-02 9.57e-03 -1.23e-02 -1.37e-02 3.31e-03 6.53e-03 9.33e-04  
## 1366 -9.56e-04 -1.48e-03 -1.43e-04 2.31e-06 1.21e-04 6.65e-04 -5.72e-05  
## 1367 1.11e-02 5.20e-04 -5.03e-03 -9.88e-04 -5.71e-03 -2.02e-03 1.59e-02  
## 1368 -2.24e-02 -6.55e-03 -2.60e-02 8.91e-03 1.96e-02 1.19e-02 -1.38e-02  
## 1369 2.09e-04 -5.71e-03 -1.33e-03 -1.53e-03 -1.80e-03 -1.68e-03 -1.94e-03  
## 1370 -2.20e-04 1.31e-04 -2.68e-04 -2.31e-04 -1.90e-04 -1.29e-04 -2.04e-04  
## 1371 -1.13e-04 -1.20e-04 8.78e-06 2.29e-05 1.62e-05 4.69e-05 9.26e-06  
## 1372 8.03e-03 -3.26e-02 -6.78e-03 -1.01e-02 2.78e-02 -2.18e-02 2.22e-02  
## 1373 -5.73e-03 -5.43e-03 3.46e-03 2.60e-03 4.04e-03 2.87e-03 8.47e-03  
## 1374 5.96e-03 1.20e-02 -6.59e-03 6.20e-03 5.20e-03 4.84e-03 -1.19e-02  
## 1375 8.08e-04 1.99e-03 2.09e-03 1.92e-03 2.58e-03 1.98e-03 -2.44e-03  
## 1376 -8.59e-03 -1.92e-03 -2.32e-03 6.41e-03 8.57e-03 -4.93e-03 -8.52e-04  
## 1377 -1.93e-02 6.82e-04 1.23e-02 1.19e-02 1.13e-02 9.08e-03 1.83e-02  
## 1378 3.12e-03 -1.21e-03 -7.13e-05 -1.02e-04 -2.54e-04 -4.91e-04 -3.51e-04  
## 1379 -3.37e-02 -3.86e-02 -8.83e-03 -1.12e-02 -4.77e-03 -1.02e-02 -2.89e-03  
## 1380 2.41e-02 -3.34e-03 -1.64e-02 -1.22e-02 -1.20e-02 -8.05e-03 -1.85e-02  
## 1381 -8.82e-03 -5.51e-03 8.37e-03 -5.79e-03 -2.35e-03 -3.35e-03 -5.72e-04  
## 1382 -9.46e-04 -1.53e-03 7.93e-04 -1.80e-03 4.78e-04 5.62e-04 6.86e-04  
## 1383 -4.10e-03 1.60e-03 -1.83e-04 -3.97e-04 -2.59e-04 2.42e-05 2.70e-04  
## 1384 -6.19e-03 2.09e-02 7.14e-03 7.98e-03 -2.26e-02 9.64e-03 -2.37e-02  
## 1385 -1.09e-02 6.66e-03 2.24e-02 -6.97e-03 2.43e-02 -5.39e-03 -2.66e-02  
## 1386 7.20e-03 -8.12e-03 4.12e-03 2.96e-03 4.39e-03 -1.11e-02 -7.90e-03  
## 1387 1.34e-02 -8.10e-03 -2.21e-02 9.69e-03 -2.76e-02 7.30e-03 1.84e-02  
## 1388 -3.70e-04 -7.30e-04 -7.25e-05 -1.42e-05 -5.72e-05 -8.83e-05 -1.62e-04  
## 1389 -2.14e-05 -6.67e-03 -1.78e-03 -2.10e-03 -2.09e-03 -2.15e-03 -2.65e-03  
## 1390 1.65e-03 -3.75e-03 -2.81e-03 9.19e-03 -2.73e-03 -6.73e-03 3.71e-04  
## 1391 -3.03e-02 -5.07e-02 -1.92e-02 -1.86e-02 3.01e-02 -2.71e-02 2.75e-02  
## 1392 -3.98e-03 -1.02e-02 -3.98e-02 -2.62e-02 1.50e-02 -3.18e-02 3.46e-03  
## 1393 -2.05e-02 -9.94e-03 9.30e-03 5.42e-03 -3.62e-02 1.03e-02 3.30e-02  
## 1394 1.48e-02 -1.77e-02 1.35e-02 -2.39e-02 9.57e-03 -2.76e-02 1.29e-02  
## 1395 -6.17e-04 -2.19e-03 -2.95e-04 1.09e-04 -1.96e-04 2.64e-05 -3.76e-04  
## 1396 7.85e-05 -5.55e-03 -1.26e-03 -1.48e-03 -1.75e-03 -1.69e-03 -1.89e-03  
## 1397 1.04e-02 9.62e-03 1.97e-02 9.14e-04 1.64e-02 -3.12e-03 9.12e-03  
## 1398 -2.42e-03 -1.31e-02 -1.52e-02 -1.38e-02 -1.54e-02 -1.40e-02 -2.36e-02  
## 1399 -8.78e-03 3.05e-02 6.62e-03 6.20e-03 1.21e-02 1.22e-02 -2.52e-02  
## 1400 2.17e-03 -6.39e-04 -1.38e-04 4.31e-05 5.88e-05 2.06e-04 -2.03e-04  
## 1401 -1.56e-02 -6.29e-04 -7.56e-03 -6.79e-03 -6.63e-03 -4.51e-03 -1.17e-02  
## 1402 -8.02e-04 3.11e-04 -4.36e-05 9.31e-06 8.68e-06 -1.31e-05 6.66e-06  
## 1403 3.13e-03 -3.18e-03 7.64e-03 -1.00e-02 1.13e-02 -7.23e-03 1.34e-02  
## 1404 4.47e-04 -9.43e-04 1.06e-02 -6.57e-03 -2.48e-03 8.68e-03 -1.18e-03  
## 1405 6.64e-03 -5.83e-04 1.83e-02 1.19e-02 -1.76e-02 1.01e-02 2.84e-02  
## 1406 -7.42e-03 9.91e-04 -1.68e-03 1.44e-03 -4.21e-03 -3.06e-04 6.93e-03  
## 1407 -2.75e-02 -1.32e-02 -2.65e-02 4.98e-03 -2.34e-02 1.01e-02 -1.30e-02  
## 1408 1.81e-02 4.57e-03 -1.08e-02 -6.03e-03 2.40e-02 -8.16e-03 1.81e-02  
## 1409 -8.24e-04 2.22e-03 7.12e-04 8.66e-04 1.29e-03 1.43e-03 -3.91e-03  
## 1410 1.07e-02 -9.46e-03 1.46e-02 1.13e-02 -1.56e-02 -2.31e-02 -1.34e-02  
## 1411 -1.00e-02 -2.22e-03 -2.43e-03 -5.93e-03 9.36e-03 8.08e-03 -2.06e-03  
## 1412 -1.80e-03 9.56e-04 5.71e-03 6.21e-03 -2.50e-03 -3.60e-03 -1.66e-03  
## 1413 -8.13e-03 2.15e-02 -2.00e-02 8.06e-03 3.81e-03 5.74e-03 1.15e-03  
## 1414 1.01e-03 1.49e-03 -4.19e-03 8.54e-03 1.04e-02 6.14e-03 1.39e-02  
## 1415 9.31e-04 6.99e-04 -5.40e-05 -6.59e-05 -9.49e-06 -6.88e-05 -4.65e-05  
## 1416 2.79e-03 1.43e-03 -9.32e-03 1.01e-02 1.78e-02 9.56e-03 -6.70e-03  
## 1417 -1.02e-02 3.00e-04 -4.65e-03 -4.62e-04 -6.09e-03 -6.85e-04 -1.36e-02  
## 1418 -4.71e-05 2.29e-04 4.13e-05 1.44e-04 2.31e-05 9.77e-05 -2.44e-05  
## 1419 -1.08e-02 4.90e-03 -5.65e-03 -9.40e-04 1.60e-02 -4.60e-03 7.24e-03  
## 1420 -2.45e-05 -3.52e-05 1.84e-07 1.13e-06 -6.00e-06 -5.54e-06 -8.22e-06  
## 1421 -5.57e-03 1.10e-02 5.12e-03 6.78e-03 -2.11e-02 -2.41e-02 -1.81e-02  
## 1422 5.39e-04 -2.08e-03 -8.27e-04 -1.87e-03 -1.77e-03 -2.59e-03 2.62e-03  
## 1423 -1.95e-02 1.31e-03 1.41e-02 1.01e-02 -1.82e-02 5.81e-03 1.35e-02  
## 1424 -3.32e-02 -3.79e-02 -8.23e-03 -1.03e-02 -4.57e-03 -9.55e-03 -3.68e-03  
## 1425 5.54e-04 -1.47e-04 -4.00e-06 4.56e-05 2.84e-05 3.65e-05 1.50e-06  
## 1426 8.36e-03 -3.25e-03 -8.28e-04 -8.08e-04 -6.65e-04 -6.72e-04 -1.32e-03  
## 1427 7.84e-03 1.16e-02 6.89e-03 7.62e-03 6.98e-03 -9.33e-03 -1.13e-02  
## 1428 -1.04e-03 -2.97e-03 -5.06e-04 -9.36e-04 -8.08e-04 -1.29e-03 -1.30e-03  
## 1429 -2.64e-03 1.01e-03 -1.77e-02 -1.75e-02 5.60e-03 -1.68e-02 -2.23e-02  
## 1430 -1.39e-02 1.01e-02 -6.18e-03 -2.43e-03 -1.11e-02 2.58e-02 9.23e-03  
## 1431 1.49e-03 -7.01e-03 -5.22e-03 -1.43e-02 -6.94e-03 8.43e-03 -5.30e-03  
## 1432 -1.20e-02 4.58e-03 -4.11e-03 -9.43e-04 1.80e-02 -3.47e-03 1.28e-02  
## 1433 1.59e-02 2.36e-02 7.21e-03 8.98e-03 4.51e-03 6.01e-03 2.13e-03  
## 1434 -6.10e-03 1.49e-02 6.69e-03 8.06e-03 -1.12e-02 7.94e-03 4.92e-03  
## 1435 1.46e-02 3.91e-03 -7.93e-03 -4.21e-03 2.49e-02 -3.55e-03 -1.31e-02  
## 1436 -4.79e-04 -2.52e-03 -4.57e-04 -4.63e-05 -1.28e-04 8.88e-05 -4.79e-04  
## 1437 2.28e-03 3.93e-03 -1.08e-02 1.00e-02 1.93e-02 1.08e-02 -7.16e-03  
## 1438 -1.17e-02 -2.69e-03 1.05e-02 -7.17e-03 -3.55e-03 1.05e-02 -1.43e-03  
## 1439 -3.81e-03 1.20e-02 6.37e-03 1.01e-02 -2.28e-02 -2.15e-02 6.32e-03  
## 1440 -9.30e-03 -9.48e-03 -5.02e-03 -6.48e-03 -2.97e-03 -3.56e-03 -1.22e-04  
## 1441 2.07e-02 -1.38e-02 1.38e-02 6.62e-03 2.05e-02 -4.10e-02 -1.46e-02  
## 1442 2.73e-02 3.09e-02 7.56e-03 9.63e-03 3.57e-03 8.35e-03 3.86e-03  
## 1443 -2.15e-02 1.18e-02 -1.18e-02 -1.27e-02 -1.08e-02 3.58e-02 -1.75e-02  
## 1444 -1.06e-03 -4.63e-03 -9.82e-04 -1.52e-03 -1.36e-03 -1.91e-03 -1.89e-03  
## 1445 -1.04e-03 -7.01e-03 -2.10e-03 -3.37e-03 -2.48e-03 -3.99e-03 -4.07e-03  
## 1446 -5.63e-04 -6.94e-03 -1.69e-03 -2.92e-03 -2.70e-03 -3.06e-03 -2.16e-03  
## 1447 1.98e-02 1.14e-02 5.91e-03 -2.04e-02 -2.02e-02 9.53e-03 -2.41e-02  
## 1448 -3.15e-03 -1.01e-04 9.94e-03 -2.18e-02 1.13e-02 6.84e-03 -1.60e-02  
## 1449 -2.40e-02 -5.78e-03 -2.28e-02 7.52e-03 1.88e-02 1.15e-02 -1.26e-02  
## 1450 -1.65e-03 -5.12e-03 -7.66e-04 -2.00e-03 -1.90e-03 -2.65e-03 -1.49e-03  
## 1451 6.19e-03 -1.25e-02 -8.43e-03 -9.46e-03 -6.52e-03 -7.59e-03 1.85e-02  
## 1452 -1.14e-02 5.59e-03 2.05e-02 -1.66e-03 -1.03e-02 -4.33e-03 1.05e-02  
## 1453 6.75e-03 -7.24e-03 1.79e-02 1.35e-02 -8.82e-03 -1.81e-02 -7.01e-04  
## 1454 1.73e-04 2.93e-02 8.14e-03 9.85e-03 8.27e-03 9.18e-03 1.15e-02  
## 1455 -1.36e-02 1.45e-03 -4.04e-03 9.72e-03 -2.71e-03 1.27e-02 3.58e-04  
## 1456 -1.68e-02 1.02e-02 2.42e-02 -3.79e-03 2.69e-02 -4.52e-03 -1.30e-02  
## 1457 1.39e-02 -1.87e-02 1.30e-02 -2.38e-02 1.46e-02 -2.58e-02 -1.97e-02  
## 1458 -8.54e-04 -1.50e-03 -2.70e-04 -1.95e-04 -1.58e-04 -3.31e-04 -4.29e-04  
## 1459 1.70e-02 -9.38e-04 -1.12e-02 -1.08e-02 -9.76e-03 -8.09e-03 -1.52e-02  
## 1460 -2.72e-03 4.86e-03 4.92e-03 -1.41e-02 6.74e-03 -1.45e-02 6.82e-03  
## 1461 -1.66e-02 -7.21e-03 -2.80e-02 1.15e-02 9.59e-03 8.10e-03 1.53e-02  
## 1462 -4.34e-03 1.25e-02 6.36e-03 -1.50e-02 3.53e-03 7.51e-03 1.66e-03  
## 1463 1.92e-02 1.96e-02 8.16e-03 1.01e-02 1.29e-02 -1.76e-02 -1.50e-02  
## 1464 2.05e-03 -2.43e-03 -4.11e-03 -7.41e-03 8.34e-03 7.35e-03 9.83e-03  
## 1465 -1.54e-02 1.13e-02 -2.09e-02 -1.46e-02 -2.76e-02 3.80e-02 1.45e-02  
## 1466 -2.93e-04 -5.65e-03 -1.51e-03 -1.87e-03 -1.93e-03 -2.10e-03 -2.51e-03  
## 1467 1.25e-02 -1.66e-03 1.41e-02 9.18e-03 -2.20e-02 8.63e-03 -1.94e-02  
## 1468 -1.53e-02 -1.12e-03 -1.11e-02 -7.52e-03 -7.75e-03 -4.32e-03 -1.49e-02  
## 1469 -1.24e-02 3.77e-03 -9.76e-03 -3.17e-03 1.91e-02 -7.52e-03 9.06e-03  
## 1470 6.35e-03 -5.15e-03 -1.25e-02 1.02e-02 -1.51e-02 9.06e-03 2.33e-02  
## 1471 -4.55e-05 4.82e-04 -1.73e-03 8.04e-03 1.08e-02 -4.56e-03 -4.06e-04  
## 1472 1.28e-05 -6.62e-03 -1.90e-03 -2.30e-03 -2.01e-03 -2.22e-03 -2.62e-03  
## 1473 -6.23e-03 1.03e-02 1.41e-02 3.30e-02 -4.92e-02 -3.98e-02 9.46e-03  
## 1474 -1.22e-02 9.05e-03 2.25e-02 -9.14e-03 2.15e-02 -1.39e-02 1.05e-02  
## 1475 -2.21e-03 6.78e-03 1.02e-02 8.70e-03 -1.14e-02 1.30e-02 -9.05e-03  
## 1476 5.94e-05 3.20e-04 5.88e-03 7.66e-03 -7.39e-03 -7.72e-03 5.68e-03  
## 1477 1.01e-03 1.65e-03 1.42e-03 1.68e-03 8.90e-04 1.12e-03 1.06e-03  
## 1478 -3.02e-02 -1.02e-02 1.34e-02 1.69e-03 -3.49e-02 9.14e-03 -1.67e-02  
## 1479 2.01e-04 -1.34e-04 2.12e-04 1.93e-04 -2.50e-04 2.18e-04 -2.37e-04  
## 1480 -1.29e-02 2.70e-03 -1.96e-03 8.36e-03 -1.31e-03 9.64e-03 3.53e-04  
## 1481 -7.97e-03 -2.98e-04 -7.12e-03 -6.16e-04 -9.88e-03 -2.34e-03 8.89e-03  
## 1482 6.77e-03 -2.09e-02 4.04e-02 -2.05e-02 -9.06e-03 4.20e-02 -5.78e-03  
## 1483 3.28e-03 -3.69e-04 -8.20e-03 1.18e-02 -7.65e-03 1.50e-02 -1.84e-03  
## 1484 -3.39e-03 1.42e-02 6.13e-03 -1.68e-02 4.60e-03 9.58e-03 1.31e-03  
## 1485 -1.65e-03 2.04e-03 -4.78e-03 -3.80e-03 2.44e-03 -4.34e-03 1.48e-03  
## 1486 3.90e-03 1.01e-02 -4.94e-03 5.43e-03 -6.33e-03 5.17e-03 -8.56e-03  
## 1487 9.23e-05 -6.40e-03 -1.79e-03 -2.09e-03 -2.10e-03 -2.13e-03 -2.71e-03  
## 1488 -1.26e-02 3.40e-03 2.15e-02 -1.91e-03 -8.30e-03 -2.26e-03 2.12e-02  
## 1489 -1.61e-02 -1.83e-02 1.08e-02 -3.14e-02 -2.92e-02 1.04e-02 1.45e-02  
## 1490 4.40e-03 2.22e-02 4.02e-03 4.16e-03 4.80e-03 1.18e-03 2.55e-03  
## 1491 3.86e-03 -6.92e-03 -6.05e-03 -9.28e-03 -7.62e-03 6.72e-03 1.14e-02  
## 1492 -2.67e-04 -8.65e-03 -2.46e-03 -4.18e-03 -3.21e-03 -3.28e-03 -3.14e-03  
## 1493 -1.11e-02 -5.13e-03 -5.48e-03 -8.95e-03 6.19e-03 5.66e-03 6.70e-03  
## 1494 -1.32e-02 -3.23e-03 -1.06e-02 -6.88e-03 -8.44e-03 -2.39e-03 -1.22e-02  
## 1495 2.04e-03 -6.81e-04 -8.53e-03 9.08e-03 -1.21e-02 6.29e-03 2.01e-02  
## 1496 -1.04e-03 4.30e-03 9.91e-03 8.05e-03 -1.84e-02 8.80e-03 1.53e-02  
## 1497 -5.00e-04 -1.32e-03 -2.75e-04 3.49e-04 3.62e-04 9.93e-04 2.79e-05  
## 1498 6.18e-03 9.44e-03 5.42e-03 -6.89e-03 3.91e-03 5.58e-03 2.06e-03  
## 1499 5.05e-03 3.89e-03 2.09e-02 1.16e-02 -1.30e-02 1.57e-02 -4.86e-03  
## 1500 -2.30e-02 1.97e-03 1.59e-02 1.15e-02 1.12e-02 8.76e-03 1.87e-02  
## 1501 -1.16e-02 -5.43e-04 -4.85e-03 -1.43e-03 -3.43e-03 -1.14e-04 -7.90e-03  
## 1502 -1.49e-03 5.01e-04 3.55e-03 -3.32e-03 -1.72e-03 4.78e-03 -1.97e-03  
## 1503 1.15e-03 1.07e-03 2.56e-05 -2.26e-04 -2.05e-04 -3.49e-04 1.62e-04  
## 1504 -2.31e-02 -1.04e-02 -2.47e-02 7.99e-03 -2.60e-02 7.30e-03 2.74e-02  
## 1505 2.05e-02 4.45e-03 -1.39e-02 -9.79e-03 2.90e-02 -9.37e-03 -2.02e-02  
## 1506 -5.17e-03 -4.83e-03 3.87e-03 2.69e-03 3.49e-03 2.92e-03 -8.57e-03  
## 1507 2.08e-03 1.48e-03 -2.64e-04 -2.62e-04 -1.10e-04 -2.15e-04 1.49e-05  
## 1508 2.05e-02 1.17e-03 1.54e-02 7.90e-03 1.45e-02 7.55e-03 -2.79e-02  
## 1509 -3.66e-03 -1.44e-02 -1.26e-02 -1.05e-02 -9.15e-03 -8.13e-03 -8.56e-03  
## 1510 2.48e-03 1.86e-03 -3.78e-04 -8.83e-04 -3.49e-04 -7.24e-04 8.40e-05  
## 1511 9.19e-03 9.90e-03 6.34e-03 7.73e-03 -8.94e-03 -9.02e-03 8.80e-03  
## 1512 2.00e-02 9.43e-04 1.23e-02 6.61e-03 2.07e-02 8.73e-03 -1.86e-02  
## 1513 3.06e-03 -1.05e-03 1.59e-02 -1.54e-02 1.77e-02 1.33e-02 -4.70e-03  
## 1514 -4.25e-04 -6.21e-03 -1.50e-03 -1.87e-03 -1.75e-03 -1.94e-03 -2.55e-03  
## 1515 -9.96e-03 1.15e-02 3.60e-02 3.95e-02 -1.34e-02 -1.72e-02 -1.65e-02  
## 1516 -5.51e-04 -8.31e-03 -2.43e-03 -3.93e-03 -3.22e-03 -3.73e-03 -3.05e-03  
## 1517 1.73e-03 3.99e-04 -1.43e-03 -1.14e-03 -1.64e-03 -1.26e-03 4.50e-04  
## 1518 1.64e-02 -1.47e-02 4.32e-02 4.63e-02 4.68e-02 -2.72e-02 -2.02e-02  
## 1519 -4.80e-03 2.38e-02 6.52e-03 9.78e-03 4.78e-03 7.95e-03 2.40e-03  
## 1520 2.51e-03 -6.54e-03 -4.31e-03 8.60e-03 -5.22e-03 -1.11e-02 -2.14e-03  
## 1521 -5.67e-04 -5.30e-03 -9.82e-04 -1.11e-03 -1.52e-03 -1.90e-03 -1.65e-03  
## 1522 -2.16e-02 -1.37e-02 -4.10e-02 5.63e-03 1.91e-02 1.17e-02 -2.06e-02  
## 1523 3.96e-03 2.61e-03 -6.20e-04 -1.14e-03 -7.75e-04 -5.98e-04 -3.46e-05  
## 1524 -9.18e-03 2.69e-02 8.49e-03 9.28e-03 8.43e-03 9.78e-03 1.19e-02  
## 1525 1.88e-03 1.46e-03 1.69e-05 -3.98e-04 -3.10e-04 -3.21e-04 3.38e-04  
## 1526 1.53e-02 2.04e-02 -8.97e-03 -1.10e-02 2.51e-02 3.30e-02 -2.99e-02  
## 1527 1.10e-02 -6.13e-03 -1.09e-03 -2.99e-03 -2.83e-03 -4.19e-03 -2.30e-03  
## 1528 -6.19e-04 -4.94e-03 -1.23e-03 -1.68e-03 -1.44e-03 -1.82e-03 -2.19e-03  
## 1529 2.07e-02 3.63e-03 -1.44e-02 -1.34e-02 3.03e-02 -1.11e-02 -2.04e-02  
## 1530 3.41e-03 2.08e-03 -6.02e-04 -1.18e-03 -6.17e-04 -6.26e-04 -2.23e-05  
## 1531 1.92e-02 3.25e-03 -1.82e-02 -1.70e-02 3.98e-03 -2.05e-02 -7.19e-04  
## 1532 7.95e-03 -4.55e-03 3.63e-03 3.26e-03 4.52e-03 2.64e-03 8.13e-03  
## 1533 -6.34e-04 -1.52e-03 5.39e-04 -1.39e-03 -1.43e-03 5.94e-04 6.01e-04  
## 1534 -1.35e-02 6.71e-03 2.21e-02 -1.90e-03 -1.01e-02 -4.91e-03 1.13e-02  
## 1535 -3.56e-03 1.25e-02 6.19e-03 -1.29e-02 4.26e-03 8.28e-03 1.62e-03  
## 1536 -1.23e-02 -1.60e-03 -4.60e-03 7.67e-03 -8.67e-03 5.29e-03 9.16e-03  
## 1537 3.22e-03 2.33e-03 -2.04e-04 -5.26e-04 -4.59e-04 -4.65e-04 4.48e-04  
## 1538 -7.67e-04 -7.43e-04 1.55e-05 2.90e-05 4.96e-05 2.47e-04 2.42e-05  
## 1539 1.80e-02 -1.36e-03 -1.13e-02 -1.12e-02 -1.04e-02 -7.39e-03 -1.55e-02  
## 1540 -7.23e-03 1.82e-02 7.31e-03 8.13e-03 -1.84e-02 6.69e-03 4.68e-03  
## 1541 1.18e-03 1.61e-03 -4.08e-03 9.35e-03 -2.66e-03 1.25e-02 -2.39e-05  
## 1542 1.78e-03 1.45e-03 -8.13e-05 -4.02e-04 -2.81e-04 -4.55e-04 2.56e-04  
## 1543 -2.30e-03 -2.67e-03 1.28e-02 -3.05e-02 1.23e-02 -3.50e-02 1.13e-03  
## 1544 -1.72e-02 -7.27e-03 1.41e-02 1.27e-02 1.48e-02 -2.39e-02 -1.45e-02  
## 1545 8.37e-03 -4.14e-02 -1.10e-02 -1.43e-02 -6.84e-03 -1.36e-02 -5.96e-03  
## 1546 2.46e-02 -5.91e-03 1.18e-02 4.09e-03 -4.57e-02 1.34e-03 2.29e-02  
## 1547 6.79e-03 -1.72e-03 -4.98e-04 9.81e-05 2.57e-04 7.83e-04 -1.48e-04  
## 1548 7.53e-03 8.10e-03 -7.33e-03 7.96e-03 8.36e-03 -4.88e-03 -5.47e-03  
## 1549 -1.53e-02 -7.76e-03 1.33e-02 1.14e-02 -1.38e-02 -1.79e-02 1.46e-02  
## 1550 -1.15e-03 -4.54e-03 -9.55e-04 -1.53e-03 -1.42e-03 -2.02e-03 -1.83e-03  
## 1551 5.04e-02 2.43e-02 1.87e-02 3.49e-02 1.59e-02 -4.32e-02 8.34e-03  
## 1552 1.38e-02 1.97e-02 2.70e-02 -9.05e-03 -1.23e-02 3.09e-02 2.19e-02  
## 1553 1.85e-02 1.82e-03 -1.66e-02 -1.63e-02 3.81e-03 -1.76e-02 1.37e-03  
## 1554 -1.46e-02 1.07e-02 2.36e-02 -4.44e-03 2.35e-02 -6.68e-03 -2.26e-02  
## 1555 -9.23e-05 -6.56e-03 -1.72e-03 -2.06e-03 -2.06e-03 -2.15e-03 -2.61e-03  
## 1556 3.17e-05 -1.64e-03 3.82e-03 -3.67e-03 4.25e-03 -3.75e-03 -5.34e-03  
## 1557 -1.43e-02 2.49e-04 -6.02e-03 -3.43e-03 -4.57e-03 -2.88e-03 -1.04e-02  
## 1558 3.55e-03 -5.22e-03 7.50e-03 -1.04e-02 6.52e-03 -1.32e-02 4.59e-03  
## 1559 -2.19e-02 2.18e-03 1.24e-02 9.46e-03 1.09e-02 4.95e-03 1.62e-02  
## 1560 -7.94e-03 8.77e-04 -3.24e-03 1.11e-03 -6.14e-03 -8.29e-04 7.83e-03  
## 1561 -1.62e-02 -2.39e-03 -7.25e-03 9.92e-03 -1.27e-02 7.63e-03 1.25e-02  
## 1562 1.45e-03 -2.04e-03 7.24e-04 -1.56e-03 5.95e-04 -1.87e-03 6.49e-04  
## 1563 -7.40e-03 2.37e-02 5.15e-03 5.50e-03 -2.55e-02 1.13e-02 -2.24e-02  
## 1564 2.71e-02 -3.71e-02 -4.38e-02 3.24e-04 -3.56e-02 -5.32e-02 -1.83e-02  
## 1565 -6.26e-03 2.14e-02 7.62e-03 1.07e-02 5.22e-03 7.44e-03 3.70e-03  
## 1566 -7.99e-05 -1.15e-04 3.02e-06 5.72e-05 3.99e-05 7.76e-05 1.00e-05  
## 1567 1.86e-04 -5.77e-03 -1.33e-03 -1.53e-03 -1.80e-03 -1.69e-03 -1.93e-03  
## 1568 1.06e-02 -4.57e-02 -1.19e-02 -1.60e-02 -8.25e-03 -1.10e-02 -2.92e-03  
## 1569 -1.24e-02 -7.09e-03 -6.46e-03 -9.41e-03 -7.17e-03 1.05e-02 1.54e-02  
## 1570 -4.93e-04 -2.23e-03 -2.92e-04 4.51e-05 -3.18e-04 1.33e-04 -4.33e-04  
## 1571 5.51e-02 4.03e-03 1.64e-02 -3.29e-02 1.81e-02 -3.36e-02 9.94e-03  
## 1572 -3.53e-04 3.39e-04 -2.55e-04 3.92e-04 -3.67e-04 -3.98e-04 1.94e-04  
## 1573 2.42e-02 1.76e-02 -1.73e-02 -1.92e-02 1.89e-02 2.83e-02 6.83e-03  
## 1574 7.74e-03 -2.78e-02 -1.19e-02 -1.52e-02 -1.25e-02 3.80e-02 4.27e-02  
## 1575 1.61e-02 -6.49e-05 -7.40e-03 -3.00e-03 -9.27e-03 -2.39e-03 -1.81e-02  
## 1576 1.68e-02 1.96e-02 -2.01e-02 1.01e-02 -1.77e-02 1.08e-02 1.20e-02  
## 1577 2.36e-03 -3.70e-03 -1.48e-02 9.70e-03 7.08e-03 -1.92e-02 6.45e-03  
## 1578 2.39e-03 4.14e-03 2.79e-03 -2.49e-03 2.52e-03 2.98e-03 -4.29e-03  
## 1579 2.39e-02 2.95e-02 7.74e-03 9.85e-03 3.89e-03 7.27e-03 3.34e-03  
## 1580 -3.56e-03 3.75e-03 -6.76e-03 6.51e-03 -4.94e-03 8.95e-03 -4.93e-03  
## 1581 5.75e-03 4.35e-03 4.52e-03 -5.45e-03 6.33e-03 -5.06e-03 -5.72e-03  
## 1582 1.82e-04 -7.41e-04 2.38e-03 -7.50e-04 -9.43e-05 -5.25e-04 1.79e-04  
## 1583 -6.88e-04 2.41e-04 -1.65e-05 -7.17e-05 -6.49e-05 -6.15e-05 -8.01e-07  
## 1584 4.42e-03 -5.15e-03 -9.95e-03 1.27e-02 2.12e-02 -1.89e-02 -4.47e-03  
## 1585 -7.04e-03 2.02e-02 -2.92e-02 5.74e-03 -3.08e-02 8.81e-03 -3.33e-02  
## 1586 2.44e-03 1.57e-03 -3.74e-04 -9.11e-04 -4.36e-04 -5.40e-04 -4.62e-05  
## 1587 -9.34e-04 -5.09e-03 -1.09e-03 -1.61e-03 -1.35e-03 -1.85e-03 -2.03e-03  
## 1588 3.53e-02 -6.46e-03 -2.73e-02 -1.76e-02 -2.24e-02 -1.43e-02 2.56e-02  
## 1589 -1.02e-04 -5.07e-03 -1.27e-03 -1.37e-03 -1.55e-03 -1.89e-03 -1.84e-03  
## 1590 -2.79e-03 9.76e-04 -2.65e-04 -4.10e-04 -2.24e-04 -2.96e-04 4.05e-05  
## 1591 1.37e-02 5.07e-03 2.28e-02 -3.63e-03 -5.12e-03 -2.38e-03 -1.01e-02  
## 1592 -2.25e-02 2.40e-05 1.32e-02 1.02e-02 1.07e-02 7.69e-03 2.02e-02  
## 1593 4.08e-03 -4.65e-03 -6.59e-03 -9.24e-03 -6.27e-03 1.12e-02 -6.73e-03  
## 1594 -1.52e-04 -2.18e-04 -3.21e-05 5.04e-05 6.61e-05 1.06e-04 -2.13e-05  
## 1595 4.25e-03 -4.42e-03 1.89e-03 -5.62e-03 1.43e-03 1.49e-03 1.67e-03  
## 1596 -1.07e-02 3.50e-03 -2.63e-03 1.15e-03 1.67e-02 -6.82e-04 1.29e-02  
## 1597 6.29e-03 -1.34e-03 -1.20e-02 1.10e-02 -1.32e-02 1.26e-02 -1.09e-02  
## 1598 2.40e-02 -6.76e-04 -1.51e-02 -7.10e-03 -1.87e-02 -1.07e-02 1.10e-02  
## 1599 -3.59e-02 -2.62e-02 -1.07e-02 4.12e-02 -1.09e-02 -1.57e-02 -1.26e-02  
## 1600 6.01e-04 8.15e-04 -1.81e-03 6.50e-03 -2.89e-03 5.88e-03 -2.92e-03  
## 1601 8.54e-04 7.20e-04 1.01e-05 5.88e-05 5.39e-06 -6.85e-05 9.20e-05  
## 1602 -1.78e-03 -5.18e-04 1.74e-03 -6.02e-04 -5.47e-05 -4.96e-04 1.00e-04  
## 1603 1.90e-02 1.86e-02 2.68e-02 -6.40e-03 -1.34e-02 3.64e-02 -2.31e-02  
## 1604 -1.12e-03 -4.52e-03 -1.13e-03 -1.58e-03 -1.11e-03 -5.62e-04 -1.02e-03  
## 1605 4.01e-03 -9.85e-03 1.34e-02 -1.11e-02 -4.63e-03 -9.36e-03 -1.45e-03  
## 1606 4.44e-03 -4.42e-03 4.08e-03 2.03e-03 -5.97e-03 3.09e-03 -3.46e-03  
## 1607 -2.70e-03 -2.63e-03 2.01e-03 2.30e-03 1.50e-03 1.43e-03 2.51e-03  
## 1608 -5.03e-03 -6.88e-03 1.30e-02 -5.00e-02 2.69e-02 -3.87e-02 -5.13e-02  
## 1609 -1.07e-03 -3.42e-03 -7.08e-04 -1.20e-03 -1.16e-03 -1.71e-03 -1.54e-03  
## 1610 2.93e-04 3.47e-04 5.31e-04 5.25e-04 -1.01e-03 5.07e-04 -9.45e-04  
## 1611 -1.16e-03 -1.61e-03 -1.83e-04 -4.47e-04 -3.27e-04 -5.09e-04 -4.80e-04  
## 1612 3.29e-04 2.71e-04 -2.49e-05 -3.99e-05 -2.16e-05 -6.54e-05 -3.52e-05  
## 1613 1.25e-02 9.25e-03 5.68e-03 7.88e-03 -1.36e-02 -1.36e-02 3.38e-03  
## 1614 1.96e-02 4.68e-03 2.10e-02 -3.38e-03 -1.38e-02 -5.85e-03 1.24e-02  
## 1615 -3.13e-03 -2.46e-03 2.37e-03 2.23e-03 2.50e-03 1.81e-03 -5.05e-03  
## 1616 3.64e-03 5.56e-04 8.42e-03 1.14e-02 7.93e-03 -1.70e-02 6.24e-03  
## 1617 -1.07e-02 -4.06e-03 -1.80e-02 -9.35e-03 -1.52e-02 -8.69e-03 2.05e-02  
## 1618 -4.66e-04 3.63e-04 -5.79e-04 -4.53e-04 6.62e-04 -5.39e-04 5.68e-04  
## 1619 3.26e-03 4.31e-03 -8.16e-03 1.11e-02 1.72e-02 1.48e-02 -3.14e-03  
## 1620 -6.67e-03 -7.29e-03 1.89e-02 -2.28e-02 -3.74e-02 -2.60e-02 9.65e-03  
## 1621 1.83e-02 5.52e-03 -1.09e-02 -8.25e-03 2.80e-02 -7.56e-03 -1.76e-02  
## 1622 1.13e-02 4.39e-03 4.57e-03 -9.24e-03 3.49e-03 -1.10e-02 5.26e-04  
## 1623 -2.05e-02 -6.55e-03 -2.83e-02 9.90e-03 9.76e-03 8.51e-03 1.77e-02  
## 1624 1.33e-02 -2.56e-03 -2.70e-02 6.60e-03 1.53e-02 4.14e-03 -2.86e-02  
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## 1627 -1.49e-02 1.47e-02 -1.17e-02 3.31e-02 2.91e-02 -4.88e-03 -1.34e-02  
## 1628 -9.65e-03 4.23e-03 2.07e-02 -1.87e-02 1.72e-02 -2.67e-02 5.92e-03  
## 1629 -4.53e-03 2.53e-02 6.73e-03 1.06e-02 4.98e-03 8.93e-03 2.40e-03  
## 1630 -1.87e-04 -5.97e-05 -4.57e-04 -4.71e-04 -2.86e-04 9.20e-04 -3.46e-04  
## 1631 -6.68e-03 2.72e-02 5.71e-03 8.83e-03 -2.35e-02 1.86e-02 -1.90e-02  
## 1632 2.68e-03 -1.23e-03 -1.98e-04 -3.01e-04 -2.71e-04 -4.39e-04 -5.84e-04  
## 1633 -7.61e-04 8.64e-04 2.65e-03 3.14e-03 2.40e-03 -3.41e-03 1.75e-03  
## 1634 5.66e-04 1.62e-03 -1.62e-03 6.42e-03 -3.15e-03 5.90e-03 6.89e-03  
## 1635 1.45e-02 -4.60e-02 -1.36e-02 -1.33e-02 -7.39e-03 -9.23e-03 -3.86e-03  
## 1636 -6.06e-04 -2.96e-03 -4.30e-04 1.64e-04 -1.89e-04 1.90e-04 -3.49e-04  
## 1637 -3.73e-03 -3.12e-03 2.98e-03 3.28e-03 2.18e-03 2.08e-03 3.59e-03  
## 1638 -1.34e-03 -3.95e-03 -8.10e-04 -1.23e-03 -1.25e-03 -2.08e-03 -1.72e-03  
## 1639 -1.86e-02 -1.02e-02 1.44e-02 1.11e-02 -1.45e-02 -2.23e-02 2.48e-02  
## 1640 -1.59e-02 2.41e-02 2.46e-02 3.73e-02 2.37e-02 -1.51e-02 1.39e-02  
## 1641 -8.36e-03 -6.71e-03 -1.90e-02 -7.87e-03 -1.51e-02 -5.23e-03 2.25e-02  
## 1642 -2.42e-03 -1.89e-03 1.81e-03 1.40e-03 -2.14e-03 2.39e-03 -1.16e-03  
## 1643 1.83e-02 1.51e-03 -1.10e-02 -6.35e-03 -1.15e-02 -7.26e-03 2.06e-02  
## 1644 2.74e-03 -1.30e-03 1.56e-02 -1.49e-02 9.58e-03 5.13e-03 1.05e-02  
## 1645 -4.86e-03 8.52e-03 -1.14e-02 8.38e-03 4.11e-03 -1.40e-02 3.01e-03  
## 1646 -1.31e-02 6.23e-04 -4.64e-03 -3.67e-03 -7.38e-03 -3.75e-03 -1.60e-02  
## 1647 1.11e-02 8.34e-04 -4.78e-03 -5.68e-04 -5.82e-03 -1.87e-03 1.62e-02  
## 1648 2.62e-03 -2.50e-03 7.37e-03 -1.47e-02 -1.58e-02 8.27e-03 4.99e-03  
## 1649 1.09e-03 7.61e-04 -4.92e-05 -2.59e-04 -2.41e-04 -2.11e-04 -6.38e-06  
## 1650 -1.40e-04 -2.94e-03 -7.04e-04 -6.95e-05 -2.54e-04 1.89e-04 -5.42e-04  
## 1651 1.01e-02 -5.08e-02 -1.51e-02 -2.36e-02 -1.06e-02 -1.74e-02 -7.57e-03  
## 1652 3.86e-03 -6.09e-03 -5.30e-03 -8.66e-03 -9.04e-03 6.68e-03 7.78e-03  
## 1653 1.23e-02 -6.99e-03 -1.76e-03 -4.20e-03 -3.25e-03 -4.64e-03 -3.14e-03  
## 1654 -1.18e-02 1.68e-02 -3.53e-02 3.69e-02 2.03e-02 -2.63e-02 1.22e-02  
## 1655 -2.27e-03 -4.93e-03 1.99e-03 -5.18e-03 -4.37e-03 2.12e-03 -4.08e-03  
## 1656 6.50e-03 -3.76e-03 -8.34e-04 -1.70e-03 -1.39e-03 -2.80e-03 -1.91e-03  
## 1657 -2.69e-04 -1.37e-03 -6.68e-03 1.03e-02 -8.50e-03 9.66e-03 -4.15e-03  
## 1658 1.56e-02 1.64e-04 -9.52e-03 -6.79e-03 -7.39e-03 -6.01e-03 -1.40e-02  
## 1659 -6.97e-03 -6.85e-03 -2.43e-02 -1.19e-02 -2.61e-02 -1.22e-02 1.13e-02  
## 1660 -8.68e-03 -5.87e-03 -2.50e-02 -1.53e-02 -2.82e-02 -1.52e-02 1.30e-02  
## 1661 2.23e-02 1.17e-03 1.48e-02 9.31e-03 1.04e-02 6.71e-03 2.10e-02  
## 1662 -5.32e-04 -1.56e-03 -2.60e-04 5.88e-04 4.86e-04 1.39e-03 1.09e-04  
## 1663 1.41e-02 -5.94e-03 -2.06e-03 -2.97e-03 -1.88e-03 -1.55e-03 -2.01e-03  
## 1664 7.74e-03 -2.00e-02 -1.03e-02 -1.74e-02 -1.02e-02 -1.58e-02 -5.82e-03  
## 1665 2.29e-02 8.35e-04 1.32e-02 8.16e-03 9.23e-03 6.03e-03 1.86e-02  
## 1666 7.81e-03 -3.52e-02 -1.01e-02 -1.18e-02 4.13e-02 -1.06e-02 -7.50e-03  
## 1667 -4.77e-03 -1.71e-03 -1.00e-03 -2.58e-03 -1.10e-03 4.13e-03 -5.53e-04  
## 1668 -6.46e-03 -5.86e-03 4.20e-03 2.24e-03 6.20e-03 4.12e-03 -6.85e-03  
## 1669 -1.81e-02 4.59e-02 2.62e-02 4.05e-02 2.37e-02 3.73e-02 1.56e-02  
## 1670 5.11e-03 -1.18e-03 -1.24e-04 4.75e-04 2.79e-04 6.37e-04 1.36e-04  
## 1671 2.53e-02 -3.07e-03 -1.79e-02 -1.03e-02 -1.58e-02 -1.07e-02 2.30e-02  
## 1672 2.50e-02 -1.51e-02 1.19e-02 -4.21e-02 7.97e-03 8.51e-03 1.51e-02  
## 1673 9.20e-03 -2.17e-03 -6.62e-04 4.91e-04 4.49e-04 1.25e-03 2.57e-04  
## 1674 7.49e-04 -4.88e-03 -1.65e-03 -4.10e-03 -2.50e-03 -4.92e-03 8.46e-03  
## 1675 -7.84e-03 3.08e-02 9.10e-03 9.72e-03 4.50e-03 6.95e-03 3.96e-03  
## 1676 3.59e-03 -1.63e-03 -1.21e-04 -5.96e-04 -5.51e-04 -9.03e-04 -4.30e-04  
## 1677 -2.61e-03 8.94e-04 -1.72e-04 -2.68e-04 -2.53e-04 -7.40e-06 1.81e-04  
## 1678 -4.12e-04 -7.78e-04 3.97e-04 5.00e-04 3.29e-04 -1.02e-03 4.50e-04  
## 1679 -7.73e-05 -1.25e-04 -7.89e-06 5.05e-05 3.84e-05 7.69e-05 7.92e-06  
## 1680 1.25e-02 2.07e-02 7.77e-03 9.28e-03 4.22e-03 5.72e-03 2.89e-03  
## 1681 -2.68e-02 4.54e-03 1.70e-02 9.95e-03 1.22e-02 4.28e-03 1.75e-02  
## 1682 -4.11e-02 -2.95e-02 3.75e-02 -2.70e-02 -1.25e-02 4.92e-02 -9.69e-03  
## 1683 1.12e-02 -4.09e-03 -1.04e-03 -6.70e-04 -6.55e-04 -7.45e-04 -7.54e-04  
## 1684 -7.25e-05 -7.19e-05 6.72e-07 2.77e-05 1.86e-05 4.17e-05 -7.39e-07  
## 1685 5.97e-03 -1.18e-02 -2.24e-02 -2.39e-02 -1.78e-02 1.26e-02 -1.65e-02  
## 1686 8.60e-04 -3.20e-03 -2.43e-03 -7.51e-03 8.27e-03 6.01e-03 -6.55e-03  
## 1687 2.33e-03 1.79e-03 -2.22e-04 -7.42e-04 -4.59e-04 -5.25e-04 1.69e-05  
## 1688 -1.64e-03 8.56e-03 8.78e-03 9.50e-03 7.42e-03 8.08e-03 7.09e-03  
## 1689 -2.40e-04 1.76e-03 2.21e-04 9.09e-04 -2.20e-04 6.19e-04 -1.76e-04  
## 1690 -5.53e-03 -1.11e-02 -1.13e-02 -9.14e-03 -1.23e-02 -1.25e-02 3.18e-02  
## 1691 3.96e-03 5.18e-03 -3.63e-03 4.69e-03 3.94e-03 -4.71e-03 -5.71e-03  
## 1692 -1.19e-02 1.43e-03 -4.09e-03 -1.40e-03 -6.05e-03 -2.72e-03 -1.48e-02  
## 1693 6.96e-03 -4.56e-03 4.12e-03 2.50e-03 4.41e-03 2.48e-03 8.25e-03  
## 1694 2.01e-04 1.46e-04 -3.71e-04 2.66e-03 2.35e-03 -1.32e-03 2.52e-03  
## 1695 -1.55e-03 -2.39e-03 -1.78e-04 -6.35e-04 -5.75e-04 -5.32e-04 -5.39e-04  
## 1696 8.14e-04 8.42e-04 1.11e-05 -1.92e-04 -2.03e-04 -3.40e-04 9.76e-05  
## 1697 -5.40e-03 -2.75e-03 1.57e-02 -3.25e-02 1.68e-02 -3.63e-02 4.62e-03  
## 1698 -1.47e-02 1.75e-02 -1.02e-02 3.43e-02 2.12e-02 -9.90e-03 1.29e-02  
## 1699 3.81e-03 -4.59e-03 -1.68e-02 1.01e-02 7.44e-03 -2.05e-02 6.58e-03  
## 1700 -1.17e-02 5.55e-03 -2.32e-03 6.40e-04 1.52e-02 -3.26e-03 6.70e-03  
## 1701 3.49e-03 -5.91e-03 -6.14e-03 1.00e-02 -9.88e-03 -1.58e-02 1.06e-02  
## 1702 5.71e-04 -6.23e-04 -8.30e-04 3.64e-03 -1.06e-03 -1.70e-03 -1.11e-03  
## 1703 -2.04e-02 -4.18e-03 1.14e-02 9.17e-03 -3.67e-02 6.33e-03 1.86e-02  
## 1704 5.12e-03 -1.45e-02 -5.75e-03 -8.40e-03 3.17e-02 3.37e-02 2.65e-02  
## 1705 1.23e-02 1.43e-02 7.40e-03 9.24e-03 -1.10e-02 -1.06e-02 -1.35e-02  
## 1706 2.58e-02 -1.90e-02 1.07e-02 9.05e-03 -3.64e-02 -4.15e-02 2.04e-02  
## 1707 -2.12e-04 8.15e-05 -4.42e-06 1.08e-05 9.57e-07 1.44e-05 1.49e-05  
## 1708 1.36e-02 1.96e-02 -1.38e-02 9.70e-03 5.53e-03 9.27e-03 3.97e-03  
## 1709 3.46e-03 3.62e-03 -3.45e-03 3.76e-03 2.30e-03 -5.24e-03 1.02e-03  
## 1710 -8.93e-04 -1.17e-03 8.37e-04 9.11e-04 9.82e-04 -1.49e-03 -1.13e-03  
## 1711 8.30e-04 6.53e-04 -1.16e-04 -4.22e-04 -2.16e-04 -3.67e-04 -8.60e-05  
## 1712 -7.31e-03 2.74e-02 6.50e-03 7.95e-03 7.94e-03 9.86e-03 1.14e-02  
## 1713 3.07e-03 1.98e-03 -1.57e-04 -5.29e-04 -5.01e-04 -2.35e-04 2.99e-04  
## 1714 -7.01e-04 -2.42e-03 -4.52e-04 -2.32e-04 -2.22e-04 2.38e-05 -7.77e-04  
## 1715 -1.93e-02 -3.99e-02 -4.22e-02 3.99e-03 -3.26e-02 -4.32e-02 -1.41e-02  
## 1716 -2.37e-02 -1.19e-02 -4.14e-02 1.75e-03 1.18e-02 4.81e-03 -3.76e-02  
## 1717 1.83e-02 1.32e-02 -1.29e-02 3.35e-02 -9.11e-03 -1.04e-02 -1.38e-02  
## 1718 -2.89e-03 1.98e-03 -1.07e-02 8.06e-03 -8.77e-03 1.14e-02 -7.33e-03  
## 1719 -4.48e-04 -1.24e-03 -1.04e-04 7.24e-04 4.61e-04 1.14e-03 3.00e-04  
## 1720 2.79e-02 -3.83e-03 8.27e-03 3.42e-03 2.10e-02 7.87e-03 -2.28e-02  
## 1721 2.16e-02 7.78e-04 1.40e-02 8.97e-05 2.06e-02 4.40e-03 -2.31e-02  
## 1722 1.41e-02 2.25e-02 7.25e-03 8.97e-03 4.99e-03 5.42e-03 2.33e-03  
## 1723 1.53e-02 1.02e-02 -1.51e-02 7.71e-03 6.79e-03 -1.83e-02 -2.02e-02  
## 1724 -2.54e-04 2.25e-04 3.27e-04 -2.15e-04 -1.63e-04 -1.14e-04 -2.27e-04  
## 1725 7.97e-04 -1.48e-03 -1.43e-03 -2.31e-03 -2.33e-03 3.27e-03 3.23e-03  
## 1726 -3.05e-02 -3.24e-02 -5.58e-03 -5.53e-03 -6.23e-03 -8.79e-03 3.65e-02  
## 1727 1.33e-02 -7.65e-04 -7.24e-03 -3.90e-03 -5.17e-03 -2.25e-03 -1.02e-02  
## 1728 1.49e-03 4.38e-03 -6.41e-03 1.08e-02 1.65e-02 9.82e-03 -3.98e-03  
## 1729 2.38e-04 -6.29e-03 -1.95e-03 -2.29e-03 -2.04e-03 -2.17e-03 -2.73e-03  
## 1730 -3.51e-03 -8.22e-03 -9.07e-03 -5.78e-03 -1.53e-02 -1.17e-02 2.06e-02  
## 1731 -3.82e-04 2.48e-03 2.97e-04 1.11e-03 -1.72e-04 8.17e-04 -2.81e-04  
## 1732 -4.20e-04 2.70e-02 7.60e-03 8.84e-03 8.90e-03 9.00e-03 1.15e-02  
## 1733 -6.78e-03 2.83e-02 7.92e-03 1.02e-02 4.89e-03 8.29e-03 3.77e-03  
## 1734 8.52e-04 -1.90e-03 -1.57e-03 5.83e-03 -3.16e-03 -4.62e-03 6.09e-03  
## 1735 1.41e-02 5.91e-04 -8.34e-03 -6.00e-03 -6.66e-03 -5.57e-03 -1.31e-02  
## 1736 -1.53e-03 -3.75e-03 -5.38e-04 -1.45e-03 -1.31e-03 -1.97e-03 -1.30e-03  
## 1737 2.30e-02 1.67e-02 -2.56e-02 6.68e-03 -2.57e-02 9.47e-03 1.21e-02  
## 1738 1.32e-02 8.11e-03 2.23e-02 -3.29e-03 -7.82e-03 -5.95e-03 1.87e-02  
## 1739 -1.96e-03 7.14e-04 -1.58e-07 -8.33e-05 -1.43e-04 2.79e-05 1.61e-04  
## 1740 -1.62e-02 -1.12e-02 -1.09e-02 -1.60e-02 -8.63e-03 1.42e-02 -4.99e-03  
## 1741 7.16e-04 5.75e-04 -7.58e-05 -1.05e-04 -4.71e-05 -1.33e-04 -3.75e-05  
## 1742 9.06e-05 -8.10e-04 -1.24e-04 -5.13e-04 -4.47e-05 -2.88e-04 7.54e-05  
## 1743 -1.28e-02 1.64e-03 -5.50e-03 -3.07e-03 -7.21e-03 -3.27e-03 -1.72e-02  
## 1744 1.20e-03 9.00e-04 -6.27e-05 -3.37e-04 -2.79e-04 -3.07e-04 7.47e-05  
## 1745 5.54e-03 -1.19e-02 -1.08e-02 9.43e-03 -1.10e-02 -2.25e-02 -5.37e-03  
## 1746 -1.16e-02 -1.74e-03 1.00e-02 1.01e-02 -4.10e-03 -5.76e-03 1.59e-02  
## 1747 -1.63e-02 1.05e-02 -9.74e-03 -5.57e-03 -1.09e-02 3.12e-02 1.94e-02  
## 1748 -2.99e-03 7.09e-03 3.69e-03 -4.89e-03 3.38e-03 5.28e-03 1.30e-03  
## 1749 5.31e-05 -6.52e-04 -1.56e-04 -4.46e-04 -4.22e-04 -6.29e-04 1.22e-03  
## 1750 -1.81e-03 2.06e-03 -1.53e-03 -1.94e-03 2.08e-03 2.35e-03 -2.01e-03  
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## 1752 -5.57e-03 7.94e-03 5.68e-03 6.46e-03 -5.30e-03 -7.01e-03 -6.05e-03  
## 1753 -5.40e-03 -6.50e-04 -1.70e-03 5.33e-03 4.69e-03 -2.90e-03 5.14e-03  
## 1754 2.73e-03 1.91e-03 -2.73e-04 -6.18e-04 -4.28e-04 -5.50e-04 3.23e-04  
## 1755 -7.65e-04 -4.58e-03 -1.13e-03 -1.63e-03 -1.52e-03 -1.98e-03 -2.03e-03  
## 1756 4.30e-03 8.30e-03 3.90e-03 4.98e-03 -5.64e-03 4.07e-03 2.51e-03  
## 1757 1.18e-03 -4.26e-04 -1.66e-05 -8.85e-05 -1.35e-05 1.06e-05 -7.47e-05  
## 1758 1.03e-02 -3.14e-03 -1.82e-02 9.08e-03 1.37e-02 7.90e-03 -1.97e-02  
## 1759 -6.12e-03 2.86e-02 7.94e-03 1.03e-02 4.70e-03 9.54e-03 3.75e-03  
## 1760 -3.03e-03 -3.49e-03 -4.31e-03 1.54e-03 2.13e-03 1.76e-03 -4.71e-03  
## 1761 2.21e-03 -5.58e-03 -4.73e-03 -1.00e-02 -4.43e-03 1.17e-02 -2.30e-03  
## 1762 -1.41e-03 -2.93e-03 -2.33e-04 -4.70e-04 -6.11e-04 -4.50e-04 -3.13e-04  
## 1763 8.05e-05 -6.88e-04 -1.16e-04 -4.55e-04 -2.35e-05 -2.92e-04 7.78e-05  
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## 1765 1.07e-03 -7.40e-04 -4.49e-03 7.34e-03 -6.86e-03 5.98e-03 1.34e-02  
## 1766 -1.02e-02 2.13e-02 1.99e-02 3.62e-02 2.05e-02 -1.40e-02 1.26e-02  
## 1767 1.38e-02 9.95e-04 -6.09e-03 -5.82e-04 -9.70e-03 -3.14e-03 9.48e-03  
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## 1769 2.00e-03 1.45e-03 -2.05e-04 -2.07e-04 -6.34e-05 -1.53e-04 3.65e-05  
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## 1771 1.02e-03 -3.07e-03 9.25e-03 -4.94e-03 -1.12e-03 -3.72e-03 -1.38e-04  
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## 1773 1.47e-02 1.43e-02 7.58e-03 8.86e-03 4.60e-03 -1.85e-02 3.07e-03  
## 1774 -4.06e-03 1.41e-03 -3.63e-04 -5.48e-04 -3.76e-04 -9.01e-05 9.95e-05  
## 1775 -1.82e-02 -2.73e-02 -3.57e-02 -4.43e-02 1.14e-02 1.19e-02 -3.27e-02  
## 1776 7.86e-03 2.64e-02 2.35e-03 -6.42e-04 2.21e-03 -1.82e-03 5.99e-03  
## 1777 1.86e-03 1.28e-03 -8.26e-03 1.03e-02 -7.49e-03 1.20e-02 -3.19e-03  
## 1778 2.00e-02 2.02e-02 9.15e-03 8.83e-03 9.00e-03 -2.89e-02 1.16e-02  
## 1779 1.48e-02 8.61e-04 -9.83e-03 -7.65e-03 -7.14e-03 -6.51e-03 -1.52e-02  
## 1780 9.40e-04 2.74e-02 7.09e-03 8.64e-03 8.67e-03 9.27e-03 1.10e-02  
## 1781 -2.88e-03 -2.60e-03 1.86e-03 2.09e-03 1.45e-03 1.26e-03 2.11e-03  
## 1782 3.41e-02 2.80e-02 2.60e-02 -2.55e-02 3.61e-02 4.34e-02 -3.15e-02  
## 1783 6.24e-03 -7.19e-03 1.76e-02 -2.45e-02 -1.19e-02 1.50e-02 -7.13e-03  
## 1784 4.35e-04 3.54e-04 -4.84e-06 -6.77e-06 -3.07e-05 -5.08e-05 3.41e-05  
## 1785 -1.81e-03 3.10e-03 -8.97e-03 6.82e-03 5.00e-03 3.84e-03 3.27e-03  
## 1786 1.95e-02 4.17e-04 -1.10e-02 -9.45e-03 -1.43e-02 -9.29e-03 -2.41e-02  
## 1787 -2.94e-03 3.46e-03 -3.82e-03 -3.69e-03 -5.02e-03 4.41e-03 1.93e-03  
## 1788 8.17e-03 6.45e-03 -8.05e-03 -9.93e-03 4.25e-03 5.28e-03 -1.34e-02  
## 1789 -4.19e-03 1.61e-03 -3.03e-04 -5.01e-04 -3.60e-04 -5.65e-05 1.97e-04  
## 1790 -4.19e-03 -4.28e-03 2.56e-03 2.09e-03 1.84e-03 1.62e-03 3.10e-03  
## 1791 -1.46e-02 2.47e-03 -1.09e-02 -8.46e-03 2.27e-02 -7.60e-03 -2.61e-02  
## 1792 2.09e-02 1.74e-02 7.38e-03 7.51e-03 1.14e-02 -2.54e-02 -1.99e-02  
## 1793 -1.57e-04 -2.16e-04 -1.74e-05 6.65e-05 5.27e-05 1.32e-04 -2.25e-05  
## 1794 5.31e-03 -2.44e-03 -4.41e-04 -5.93e-04 -3.48e-04 -5.97e-04 -8.88e-04  
## 1795 -1.42e-02 1.08e-02 -5.48e-03 2.89e-02 -9.34e-03 -5.94e-03 1.29e-02  
## 1796 -5.27e-03 2.57e-02 6.62e-03 8.75e-03 4.29e-03 8.67e-03 2.34e-03  
## 1797 -2.18e-02 2.66e-03 1.51e-02 1.06e-02 1.07e-02 7.96e-03 1.76e-02  
## 1798 2.30e-03 -1.27e-03 -8.37e-03 -6.11e-03 -7.71e-03 1.04e-02 5.58e-03  
## 1799 4.72e-04 -3.81e-03 -5.05e-03 -4.40e-03 -4.04e-03 -3.10e-03 6.37e-03  
## 1800 -1.13e-03 -2.83e-03 -2.88e-04 -5.76e-04 -8.67e-04 -1.40e-03 -9.71e-04  
## 1801 -4.70e-03 -8.01e-03 3.83e-03 2.87e-03 5.56e-03 -9.28e-03 -4.17e-03  
## 1802 1.30e-03 -3.87e-04 -2.14e-05 1.05e-04 9.02e-05 1.30e-04 -4.05e-06  
## 1803 1.50e-02 5.06e-03 -9.41e-03 -9.46e-03 2.73e-02 -8.61e-03 -1.68e-02  
## 1804 -1.58e-02 3.61e-03 2.44e-02 -8.84e-03 -8.53e-03 -5.98e-03 -1.48e-02  
## 1805 -8.68e-03 -3.56e-03 -1.25e-02 -5.05e-03 -1.26e-02 -2.42e-03 -2.20e-02  
## 1806 -8.37e-05 3.63e-04 7.15e-05 2.02e-04 2.51e-04 3.15e-04 -5.07e-04  
## 1807 1.74e-02 -2.69e-04 1.63e-02 7.88e-03 -3.67e-02 4.17e-03 2.08e-02  
## 1808 -2.59e-02 -5.45e-03 1.35e-02 9.22e-03 -2.09e-02 1.88e-02 -7.56e-03  
## 1809 -3.81e-03 1.10e-02 4.12e-03 6.44e-03 -2.58e-02 -2.73e-02 -2.11e-02  
## 1810 -3.72e-04 -8.54e-04 -8.40e-05 4.19e-04 3.05e-04 6.88e-04 1.65e-04  
## 1811 3.02e-03 1.76e-03 -3.44e-04 -7.11e-04 -5.48e-04 -3.45e-04 1.59e-04  
## 1812 2.19e-04 -6.34e-03 -1.95e-03 -2.30e-03 -2.04e-03 -2.18e-03 -2.72e-03  
## 1813 -5.03e-04 4.42e-03 -2.71e-03 8.20e-03 1.21e-02 8.48e-03 -1.51e-03  
## 1814 2.55e-03 4.32e-03 1.22e-02 9.56e-03 8.57e-03 4.90e-03 9.49e-03  
## 1815 6.39e-05 4.08e-06 1.30e-04 -2.90e-04 1.12e-04 1.24e-04 1.64e-04  
## 1816 -6.20e-03 2.59e-02 7.65e-03 1.15e-02 5.94e-03 8.58e-03 3.61e-03  
## 1817 -9.79e-03 -4.81e-03 -1.45e-02 -8.56e-03 -1.59e-02 -4.00e-03 -2.44e-02  
## 1818 -1.19e-02 -2.99e-03 -1.82e-02 -1.01e-02 -1.48e-02 -9.20e-03 2.04e-02  
## 1819 2.24e-02 5.99e-03 2.70e-02 -1.10e-02 -1.08e-02 -9.11e-03 -1.68e-02  
## 1820 3.88e-03 2.64e-03 -4.85e-04 -1.04e-03 -6.62e-04 -5.05e-04 9.39e-05  
## 1821 1.51e-02 1.90e-02 -1.57e-02 8.01e-03 3.54e-03 5.86e-03 1.81e-03  
## 1822 1.71e-03 1.72e-03 -7.08e-03 9.97e-03 1.33e-02 7.17e-03 1.82e-02  
## 1823 -2.24e-03 -9.80e-04 9.74e-03 -1.65e-02 1.09e-02 8.70e-03 -1.19e-02  
## 1824 5.01e-03 -2.16e-03 -4.90e-04 -6.48e-04 -5.04e-04 -7.88e-04 -8.85e-04  
## 1825 2.34e-02 8.44e-04 1.29e-02 7.59e-03 9.37e-03 5.75e-03 1.92e-02  
## 1826 2.65e-05 3.43e-05 -2.24e-06 -1.66e-05 -9.81e-06 -2.42e-05 -5.50e-06  
## 1827 1.62e-02 4.23e-03 -1.55e-02 -1.63e-02 3.52e-03 -1.98e-02 1.07e-04  
## 1828 1.05e-02 -1.70e-02 -1.99e-02 -9.63e-03 -2.34e-02 -8.76e-03 2.72e-02  
## 1829 -2.47e-03 1.28e-02 5.05e-03 -1.54e-02 3.75e-03 8.40e-03 1.15e-04  
## 1830 9.80e-03 -4.45e-02 -1.09e-02 -1.49e-02 -8.15e-03 -1.07e-02 -2.77e-03  
## 1831 -6.53e-03 2.90e-02 7.75e-03 1.04e-02 5.09e-03 8.94e-03 3.86e-03  
## 1832 2.13e-02 1.29e-02 -1.37e-02 -8.21e-03 -1.93e-02 3.14e-02 1.03e-02  
## 1833 5.41e-04 3.15e-02 8.65e-03 1.05e-02 8.28e-03 9.26e-03 1.33e-02  
## 1834 4.59e-03 1.50e-03 -1.33e-02 9.44e-03 1.54e-02 6.18e-03 2.24e-02  
## 1835 1.38e-02 -3.95e-03 -1.41e-03 -9.00e-04 -1.61e-04 1.64e-03 -2.67e-04  
## 1836 -9.04e-03 2.40e-02 -6.60e-02 2.13e-02 2.35e-03 1.64e-02 -2.15e-03  
## 1837 2.35e-03 -1.05e-03 -1.65e-04 -2.58e-04 -2.42e-04 -5.63e-04 -4.80e-04  
## 1838 -6.89e-03 7.82e-03 6.95e-03 -1.33e-02 -1.05e-02 8.45e-03 -1.05e-02  
## 1839 3.55e-03 2.16e-03 -5.76e-04 -1.16e-03 -5.76e-04 -5.53e-04 2.52e-05  
## 1840 1.60e-03 -1.80e-03 1.74e-03 1.75e-03 1.92e-03 -2.38e-03 3.00e-03  
## 1841 -1.80e-03 1.23e-03 -4.55e-03 4.52e-03 -5.90e-03 4.17e-03 3.43e-03  
## 1842 -5.95e-04 -2.51e-03 -6.75e-04 -4.41e-04 -4.09e-04 -1.78e-04 -8.29e-04  
## 1843 1.85e-03 1.41e-03 -2.34e-04 -7.39e-04 -3.92e-04 -5.60e-04 -6.42e-06  
## 1844 -6.53e-04 -1.16e-03 -1.49e-04 -1.09e-04 -1.89e-04 -1.75e-04 -3.90e-04  
## 1845 1.14e-02 -4.46e-02 -1.31e-02 -1.59e-02 -7.95e-03 -1.43e-02 -5.99e-03  
## 1846 8.27e-03 6.54e-03 -8.89e-03 -1.13e-02 -1.29e-02 4.71e-03 1.77e-03  
## 1847 -4.05e-03 -1.10e-02 -1.05e-02 -1.01e-02 -1.37e-02 -1.15e-02 -1.95e-02  
## 1848 9.67e-03 -4.56e-02 -1.27e-02 -1.96e-02 -1.03e-02 -1.69e-02 -5.39e-03  
## 1849 9.14e-03 -4.70e-02 -1.30e-02 -2.02e-02 -9.74e-03 -1.70e-02 -5.31e-03  
## 1850 -6.55e-03 1.69e-03 3.16e-02 -5.12e-03 2.97e-02 -8.74e-03 -1.72e-02  
## 1851 -2.26e-04 -2.11e-04 1.16e-05 2.97e-05 1.98e-05 6.22e-05 3.55e-05  
## 1852 2.45e-02 -3.00e-02 3.58e-02 4.27e-02 -1.30e-02 -1.91e-02 -2.14e-03  
## 1853 6.46e-03 -6.62e-03 -8.35e-03 2.49e-03 5.56e-03 3.65e-03 -5.06e-03  
## 1854 2.35e-02 1.15e-02 -1.73e-02 3.48e-02 -1.23e-02 -1.16e-02 -1.66e-02  
## 1855 4.03e-02 1.83e-03 2.21e-02 -1.99e-02 -2.65e-02 -1.71e-02 -3.96e-02  
## 1856 3.04e-03 1.85e-03 -3.80e-04 -8.92e-04 -4.42e-04 -3.72e-04 -6.20e-05  
## 1857 9.06e-03 -4.64e-02 -1.30e-02 -2.01e-02 -9.63e-03 -1.66e-02 -6.11e-03  
## 1858 -1.74e-03 -4.86e-03 -1.08e-02 6.81e-03 -1.27e-02 -1.68e-02 -1.46e-02  
## 1859 1.39e-02 -4.84e-03 -1.94e-03 -1.50e-03 -8.76e-04 -1.07e-03 -1.57e-03  
## 1860 -9.12e-03 2.28e-02 7.91e-03 1.07e-02 -1.46e-02 1.07e-02 1.25e-02  
## 1861 5.73e-03 3.44e-03 -1.52e-02 1.01e-02 2.15e-02 1.28e-02 -8.55e-03  
## 1862 1.04e-03 -2.97e-03 8.48e-03 -4.47e-03 8.77e-03 -4.58e-03 -1.15e-03  
## 1863 1.41e-02 7.04e-03 2.63e-02 -6.25e-03 -9.98e-03 -7.68e-03 2.30e-02  
## 1864 -5.34e-03 2.58e-02 6.68e-03 8.81e-03 4.34e-03 8.73e-03 2.42e-03  
## 1865 -4.06e-03 1.42e-03 -2.43e-04 -4.49e-04 -2.76e-04 -7.98e-06 1.91e-04  
## 1866 -5.79e-03 2.91e-02 7.66e-03 9.97e-03 4.74e-03 9.49e-03 4.07e-03  
## 1867 5.58e-03 -7.55e-03 -9.69e-03 -1.61e-02 1.11e-02 7.95e-03 1.62e-02  
## 1868 8.91e-04 8.90e-04 -7.77e-05 -4.31e-04 -2.65e-04 -4.50e-04 -1.02e-05  
## 1869 4.80e-03 -5.08e-03 2.37e-03 2.51e-03 3.19e-03 -7.05e-03 4.94e-03  
## 1870 2.89e-03 1.94e-03 -2.66e-03 -2.13e-03 3.83e-03 -1.60e-03 -2.55e-03  
## 1871 3.11e-05 -2.21e-04 -4.62e-05 -1.55e-04 -1.06e-05 -9.88e-05 1.63e-05  
## 1872 4.92e-03 7.56e-03 1.85e-02 1.19e-02 2.24e-02 1.46e-02 -5.52e-03  
## 1873 -5.17e-03 -4.58e-03 3.56e-03 3.30e-03 2.35e-03 1.97e-03 4.65e-03  
## 1874 -4.39e-04 -8.76e-03 -2.37e-03 -4.09e-03 -3.04e-03 -3.14e-03 -3.13e-03  
## 1875 1.41e-02 6.18e-04 -8.35e-03 -6.00e-03 -6.67e-03 -5.57e-03 -1.31e-02  
## 1876 -1.14e-02 1.60e-03 -3.80e-03 -1.26e-03 -5.77e-03 -2.56e-03 -1.43e-02  
## 1877 1.41e-03 -6.04e-03 -1.61e-02 -1.91e-02 8.18e-03 8.69e-03 8.87e-03  
## 1878 -6.29e-03 1.18e-02 7.01e-03 -1.38e-02 6.19e-03 7.73e-03 7.40e-03  
## 1879 -1.52e-02 3.29e-02 2.36e-02 3.77e-02 -2.19e-02 4.20e-02 3.12e-02  
## 1880 -2.38e-03 4.31e-03 -5.04e-03 -4.22e-03 2.73e-03 4.79e-03 8.93e-04  
## 1881 -3.30e-03 8.90e-04 -9.27e-03 -9.03e-03 4.72e-03 -9.61e-03 5.05e-03  
## 1882 6.04e-03 -5.32e-03 -7.71e-03 2.77e-03 5.33e-03 3.44e-03 -5.09e-03  
## 1883 -1.75e-02 -3.89e-03 -1.30e-02 -1.09e-02 -1.00e-02 -6.62e-03 -1.47e-02  
## 1884 -4.02e-03 9.91e-03 -8.74e-03 7.57e-03 -9.66e-03 7.69e-03 3.34e-03  
## 1885 2.82e-03 4.47e-03 -2.04e-02 9.82e-03 7.39e-03 8.80e-03 7.02e-03  
## 1886 1.94e-03 2.82e-02 5.88e-03 1.02e-02 9.84e-03 1.04e-02 7.54e-03  
## 1887 9.63e-03 -4.49e-02 -1.13e-02 -1.55e-02 -7.80e-03 -1.07e-02 -3.25e-03  
## 1888 4.48e-03 1.60e-03 -3.60e-02 3.17e-03 1.62e-02 9.68e-03 -2.80e-02  
## 1889 2.06e-02 9.80e-03 -2.06e-02 -2.17e-02 5.18e-03 8.77e-03 7.00e-03  
## 1890 -3.37e-03 9.03e-03 1.10e-02 7.14e-03 1.36e-02 8.16e-03 -1.55e-02  
## 1891 -2.47e-03 -2.81e-03 1.74e-03 1.96e-03 -5.05e-03 1.34e-03 2.43e-03  
## 1892 4.40e-03 3.63e-04 -3.69e-03 -3.46e-03 -4.69e-03 -4.22e-03 8.12e-04  
## 1893 2.13e-02 -4.31e-02 3.72e-02 -1.74e-02 -1.04e-02 -1.04e-02 -3.20e-03  
## 1894 1.45e-02 -3.01e-04 -6.70e-03 -4.49e-03 -9.44e-03 -3.60e-03 -1.76e-02  
## 1895 -2.14e-02 -1.45e-02 -2.87e-02 7.68e-03 -2.80e-02 1.11e-02 3.01e-02  
## 1896 -3.50e-04 -1.29e-03 -1.90e-04 6.14e-04 4.67e-04 1.12e-03 2.77e-04  
## 1897 -6.79e-04 -3.00e-03 -5.98e-04 -2.47e-04 -2.96e-04 1.27e-04 -8.20e-04  
## 1898 -3.49e-03 -3.24e-03 2.34e-03 2.63e-03 1.89e-03 1.68e-03 2.78e-03  
## 1899 -2.64e-02 -7.48e-03 1.01e-02 1.77e-03 2.06e-02 1.10e-02 -1.98e-02  
## 1900 -1.21e-02 1.61e-02 2.12e-02 -2.48e-02 -3.12e-02 4.46e-02 -4.41e-02  
## 1901 8.69e-03 -3.68e-03 -7.94e-04 -1.75e-03 -1.43e-03 -1.63e-03 -1.29e-03  
## 1902 -2.07e-04 -3.65e-04 -5.53e-03 6.32e-03 4.80e-03 -6.41e-03 3.52e-03  
## 1903 -2.56e-03 -5.04e-04 -2.25e-02 -2.27e-02 8.36e-03 -1.90e-02 -2.04e-02  
## 1904 2.65e-03 1.90e-03 -1.78e-04 -4.83e-04 -4.00e-04 -4.52e-04 2.91e-04  
## 1905 -5.36e-04 -2.95e-03 -5.14e-04 1.03e-05 -1.59e-04 1.28e-04 -3.54e-04  
## 1906 3.55e-03 4.66e-03 -1.98e-02 1.13e-02 7.61e-03 9.33e-03 7.78e-03  
## 1907 -4.46e-04 2.56e-03 4.63e-05 8.22e-04 5.14e-04 1.12e-03 1.22e-03  
## 1908 -7.82e-04 -1.25e-03 -8.80e-05 -2.57e-04 -2.24e-04 -3.00e-04 -2.44e-04  
## 1909 1.79e-03 1.08e-03 -4.41e-03 9.82e-03 -6.94e-03 1.02e-02 -5.99e-03  
## 1910 2.64e-02 1.82e-02 6.07e-03 9.86e-03 7.99e-03 -2.59e-02 -2.94e-02  
## 1911 -5.33e-03 1.17e-02 6.87e-03 8.40e-03 4.75e-03 -1.49e-02 3.34e-03  
## 1912 -1.37e-02 7.72e-03 2.32e-02 -1.85e-02 3.46e-02 -1.44e-02 -2.60e-02  
## 1913 -2.69e-03 -3.18e-03 2.20e-03 2.34e-03 1.48e-03 2.08e-03 3.07e-03  
## 1914 -2.30e-03 3.32e-03 3.89e-03 -5.80e-03 2.96e-03 -7.19e-03 9.75e-04  
## 1915 7.48e-03 -3.87e-02 -1.13e-02 -1.85e-02 4.27e-02 -1.78e-02 -8.96e-03  
## 1916 -1.73e-03 -6.42e-03 -1.46e-03 -2.90e-03 -2.07e-03 -3.04e-03 -2.44e-03  
## 1917 -8.90e-04 -1.64e-03 7.47e-04 -1.87e-03 5.69e-04 6.85e-04 6.12e-04  
## 1918 1.72e-02 2.49e-02 8.04e-03 9.04e-03 7.55e-03 7.39e-03 -2.37e-02  
## 1919 6.77e-04 7.88e-04 -1.26e-05 -3.07e-04 -2.32e-04 -3.81e-04 -9.76e-06  
## 1920 1.41e-02 3.95e-03 1.68e-02 9.73e-03 1.64e-02 5.36e-03 -2.67e-02  
## 1921 1.35e-03 2.56e-03 2.05e-03 2.37e-03 -1.26e-03 -1.17e-03 -1.66e-03  
## 1922 -9.13e-03 -5.02e-04 -2.60e-02 -1.38e-02 2.04e-02 -1.54e-02 7.39e-03  
## 1923 -1.06e-02 1.67e-02 -3.15e-02 -2.02e-02 1.82e-02 3.65e-02 4.98e-03  
## 1924 1.01e-02 2.95e-02 4.22e-03 1.13e-02 1.22e-02 1.61e-02 9.83e-03  
## 1925 -2.35e-02 -3.85e-03 1.15e-02 7.89e-03 1.54e-02 8.99e-03 3.54e-02  
## 1926 -3.21e-04 -8.69e-03 -2.42e-03 -4.16e-03 -3.18e-03 -3.25e-03 -3.09e-03  
## 1927 3.32e-03 -7.50e-03 -6.71e-03 1.10e-02 -5.04e-03 -1.10e-02 -9.87e-04  
## 1928 8.61e-05 -6.69e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.22e-03 -2.65e-03  
## 1929 -1.15e-03 -4.00e-03 -9.20e-04 -1.37e-03 -9.77e-04 -5.27e-04 -9.54e-04  
## 1930 1.50e-02 2.02e-02 2.84e-02 3.35e-02 -7.00e-03 -9.67e-03 -1.19e-02  
## 1931 -8.93e-04 -1.30e-03 -1.22e-04 -3.73e-04 -3.11e-04 -3.48e-04 -4.19e-04  
## 1932 7.16e-04 -4.89e-04 7.49e-04 6.67e-04 -7.15e-04 8.51e-04 -3.52e-04  
## 1933 -4.11e-04 -8.14e-04 -3.73e-05 4.90e-04 2.96e-04 7.14e-04 1.68e-04  
## 1934 -1.04e-04 -6.86e-03 -1.76e-03 -2.11e-03 -2.08e-03 -2.17e-03 -2.60e-03  
## 1935 -1.96e-05 -8.28e-03 -1.86e-03 -3.34e-03 -3.13e-03 -2.80e-03 -2.20e-03  
## 1936 -3.71e-03 -1.88e-03 2.70e-03 2.33e-03 3.92e-03 3.22e-03 -2.18e-03  
## 1937 -5.64e-03 2.77e-02 5.94e-03 9.78e-03 8.60e-03 1.04e-02 1.10e-02  
## 1938 7.09e-04 7.42e-04 3.71e-05 -1.69e-04 -1.60e-04 -3.09e-04 1.12e-04  
## 1939 2.79e-02 3.14e-02 6.72e-03 8.49e-03 3.79e-03 7.99e-03 2.50e-03  
## 1940 -5.91e-03 -1.82e-02 -1.90e-02 -2.21e-02 -1.53e-02 -1.74e-02 -1.40e-02  
## 1941 3.89e-03 2.40e-03 -7.29e-04 -1.31e-03 -7.49e-04 -6.92e-04 -2.12e-05  
## 1942 4.09e-03 1.63e-03 1.69e-02 1.01e-02 -1.31e-02 8.63e-03 -1.04e-02  
## 1943 6.53e-04 -1.41e-03 -1.06e-03 4.56e-03 -2.47e-03 -3.42e-03 4.68e-03  
## 1944 1.42e-02 1.33e-03 -7.15e-03 -6.52e-03 -1.05e-02 -6.87e-03 -2.03e-02  
## 1945 1.25e-04 -2.83e-04 1.48e-03 -4.38e-04 1.72e-03 -4.16e-04 -4.15e-05  
## 1946 -3.43e-03 -2.83e-03 1.59e-02 -2.37e-02 -3.24e-02 -1.83e-02 2.75e-02  
## 1947 -5.47e-03 1.75e-02 6.04e-03 8.96e-03 -1.82e-02 7.53e-03 3.83e-03  
## 1948 1.67e-02 -1.73e-02 1.40e-02 1.09e-02 -2.45e-02 -3.40e-02 3.15e-02  
## 1949 1.45e-02 7.21e-03 2.53e-02 -7.70e-03 -6.57e-03 -6.89e-03 -1.45e-02  
## 1950 -1.40e-02 3.27e-04 -6.03e-03 -3.45e-03 -4.60e-03 -2.89e-03 -1.05e-02  
## 1951 5.25e-03 4.32e-03 1.93e-02 1.04e-02 1.97e-02 1.01e-02 -7.95e-03  
## 1952 1.60e-04 -6.25e-04 -4.34e-04 -1.54e-03 -9.08e-04 3.85e-03 -1.20e-03  
## 1953 6.61e-03 8.31e-03 4.74e-03 -6.98e-03 2.84e-03 3.71e-03 4.41e-04  
## 1954 1.54e-02 -9.97e-03 -2.38e-02 8.37e-03 -2.91e-02 7.71e-03 1.68e-02  
## 1955 3.86e-03 -2.88e-03 -1.36e-02 1.10e-02 7.07e-03 -1.63e-02 5.69e-03  
## 1956 9.12e-03 -1.07e-02 -1.15e-02 1.10e-02 -1.47e-02 -1.87e-02 1.23e-02  
## 1957 6.48e-03 6.42e-03 -6.36e-03 -6.50e-03 3.23e-03 5.67e-03 1.26e-03  
## 1958 -1.96e-02 -1.44e-02 1.30e-02 -2.91e-02 -1.66e-02 1.90e-02 -8.40e-03  
## 1959 -1.95e-02 -7.69e-05 1.25e-02 1.15e-02 1.14e-02 8.83e-03 1.59e-02  
## 1960 -1.83e-04 2.36e-04 -1.68e-04 -1.80e-04 1.33e-04 2.07e-04 6.55e-05  
## 1961 1.65e-02 -3.50e-02 -1.99e-02 4.32e-02 -1.14e-02 -2.21e-02 -2.38e-03  
## 1962 1.69e-02 2.10e-02 -1.87e-02 8.02e-03 4.24e-03 4.45e-03 2.52e-04  
## 1963 -3.95e-02 -1.89e-02 3.24e-02 3.63e-02 3.93e-02 3.67e-02 -4.47e-02  
## 1964 -1.90e-02 -1.16e-03 -8.59e-03 1.11e-02 -7.66e-03 1.44e-02 -1.95e-03  
## 1965 -1.03e-03 7.46e-04 3.64e-03 -3.21e-03 -1.90e-03 5.42e-03 -2.25e-03  
## 1966 1.49e-02 9.01e-04 -8.16e-03 -4.41e-03 -9.19e-03 -5.47e-03 1.70e-02  
## 1967 -1.17e-03 -3.68e-03 -7.12e-04 -1.08e-03 -8.33e-04 -3.55e-04 -1.03e-03  
## 1968 1.47e-02 2.84e-03 1.53e-02 1.23e-02 1.66e-02 8.46e-03 2.92e-02  
## 1969 5.26e-03 -4.36e-03 -6.55e-03 2.41e-03 1.76e-03 1.53e-03 2.31e-03  
## 1970 -1.39e-02 -1.16e-03 -9.06e-03 -5.63e-03 -7.00e-03 -3.37e-03 -1.30e-02  
## 1971 -4.64e-04 -8.89e-04 -1.61e-04 2.28e-04 2.23e-04 5.97e-04 -1.50e-05  
## 1972 -7.66e-03 1.23e-03 -1.35e-03 1.81e-03 -4.15e-03 -1.47e-04 7.08e-03  
## 1973 1.34e-02 -2.91e-03 -2.57e-02 6.26e-03 1.52e-02 5.29e-03 -2.76e-02  
## 1974 1.45e-03 -2.04e-03 1.27e-03 -2.52e-03 1.21e-03 9.05e-04 1.84e-03  
## 1975 1.02e-04 1.00e-04 -6.87e-06 -1.63e-05 -1.03e-05 -3.11e-05 -5.56e-06  
## 1976 2.51e-02 -1.77e-02 -3.94e-02 4.18e-03 -3.76e-02 8.75e-03 3.38e-02  
## 1977 -1.01e-02 1.29e-02 -3.60e-02 -2.25e-02 1.96e-02 4.05e-02 8.83e-03  
## 1978 -4.44e-04 -4.54e-03 -9.00e-04 -1.21e-03 -1.48e-03 -1.63e-03 -1.60e-03  
## 1979 1.23e-02 7.15e-03 6.26e-03 -1.11e-02 1.02e-02 -9.87e-03 -1.06e-02  
## 1980 -1.38e-02 6.57e-03 2.32e-02 -5.81e-03 -1.03e-02 -5.43e-03 -2.16e-02  
## 1981 -5.81e-03 -1.06e-02 3.42e-02 -2.39e-02 -1.52e-02 -1.71e-02 -1.26e-02  
## 1982 3.12e-04 9.99e-06 -8.09e-04 4.15e-03 4.40e-03 -2.01e-03 5.33e-03  
## 1983 2.54e-02 1.28e-02 2.61e-02 -1.17e-02 2.93e-02 -1.32e-02 2.30e-02  
## 1984 -7.25e-03 1.66e-02 1.86e-02 3.84e-02 1.72e-02 -3.00e-02 1.14e-02  
## 1985 -3.97e-04 -1.25e-03 5.95e-03 -4.72e-03 6.99e-03 -3.98e-03 -6.25e-03  
## 1986 -1.01e-02 -1.39e-03 -7.56e-03 -1.66e-03 -7.07e-03 -1.60e-03 1.69e-02  
## 1987 6.84e-03 9.83e-03 -7.29e-03 6.20e-03 -6.04e-03 7.36e-03 -6.21e-03  
## 1988 -2.14e-02 -7.14e-03 -2.86e-02 7.34e-03 1.28e-02 9.45e-03 -2.67e-02  
## 1989 9.86e-03 -4.38e-02 -1.33e-02 -1.78e-02 -7.83e-03 -1.45e-02 -7.70e-03  
## 1990 -7.21e-04 -2.33e-03 -5.11e-04 -3.38e-04 -3.10e-04 -1.48e-04 -6.89e-04  
## 1991 1.33e-02 -7.01e-04 -7.24e-03 -3.91e-03 -5.19e-03 -2.26e-03 -1.03e-02  
## 1992 6.68e-03 -7.00e-03 -8.90e-03 2.56e-03 4.11e-03 2.97e-03 -9.31e-03  
## 1993 4.95e-04 -5.70e-05 9.36e-03 8.10e-03 -8.58e-04 -3.52e-03 1.36e-03  
## 1994 -4.68e-03 -9.95e-03 -9.04e-03 -9.25e-03 -1.78e-02 -1.29e-02 2.21e-02  
## 1995 -1.41e-02 -2.85e-03 -1.37e-02 -8.39e-03 -9.35e-03 -5.60e-03 -1.58e-02  
## 1996 -2.19e-02 -3.98e-03 1.30e-02 1.01e-02 -3.33e-02 6.85e-03 1.87e-02  
## 1997 -2.62e-04 -6.18e-03 -1.58e-03 -1.95e-03 -1.97e-03 -2.12e-03 -2.52e-03  
## 1998 -2.07e-04 -1.53e-04 1.18e-03 -7.87e-04 1.42e-03 -7.12e-04 -1.28e-03  
## 1999 5.06e-02 -1.45e-02 -4.22e-02 -3.47e-02 1.04e-02 -4.57e-02 -2.66e-03  
## 2000 -1.38e-02 2.85e-03 -1.18e-02 -5.10e-03 2.38e-02 -7.26e-03 1.77e-02  
## 2001 -9.12e-03 -7.11e-03 1.92e-02 -2.79e-02 -3.91e-02 -2.83e-02 7.76e-03  
## 2002 -3.96e-02 -4.68e-02 -9.90e-03 -1.56e-02 -6.93e-03 -1.22e-02 -1.98e-03  
## 2003 1.26e-02 2.06e-03 -5.74e-03 -3.22e-03 -8.16e-03 -5.05e-03 -1.82e-02  
## 2004 -1.87e-02 1.48e-02 -9.59e-03 -8.56e-03 2.69e-02 3.03e-02 -1.83e-02  
## 2005 -5.07e-03 -4.33e-03 3.23e-03 3.24e-03 4.11e-03 2.84e-03 7.22e-03  
## 2006 -1.42e-02 7.88e-04 -7.41e-03 -4.26e-03 -5.74e-03 -3.54e-03 -1.14e-02  
## 2007 3.00e-03 1.42e-03 2.97e-03 -2.98e-03 -2.49e-03 -3.17e-03 -2.86e-03  
## 2008 -1.50e-02 2.47e-02 2.36e-02 4.00e-02 3.09e-02 -1.93e-02 2.97e-02  
## 2009 -4.11e-04 -9.11e-04 -5.58e-05 1.52e-05 -1.11e-04 -2.65e-05 -2.15e-04  
## 2010 -2.78e-03 3.91e-03 -1.03e-02 7.61e-03 -1.15e-02 -1.07e-02 3.26e-03  
## 2011 1.41e-02 2.26e-02 7.97e-03 1.00e-02 4.77e-03 5.93e-03 3.23e-03  
## 2012 -1.33e-02 3.10e-05 -7.60e-03 -5.77e-03 -1.01e-02 -5.27e-03 -1.94e-02  
## 2013 2.45e-04 2.71e-04 2.01e-05 -6.61e-05 -8.26e-05 -1.08e-04 2.12e-05  
## 2014 8.40e-03 -4.22e-02 -1.14e-02 -1.50e-02 -6.63e-03 -1.38e-02 -5.79e-03  
## 2015 -4.05e-03 -5.40e-03 1.50e-02 -3.79e-02 1.19e-02 -4.04e-02 4.59e-03  
## 2016 -4.84e-03 5.84e-03 -5.22e-03 -6.10e-03 5.79e-03 6.39e-03 -5.79e-03  
## 2017 2.32e-03 1.36e-03 4.04e-04 6.46e-04 7.77e-05 4.21e-04 -1.23e-04  
## 2018 -2.36e-02 -8.42e-03 -3.00e-02 8.98e-03 1.50e-02 1.02e-02 2.96e-02  
## 2019 -1.16e-02 3.48e-03 1.94e-02 -2.52e-03 -4.08e-03 -1.49e-04 -8.58e-03  
## 2020 -2.19e-02 -4.15e-03 1.19e-02 1.09e-02 -2.05e-02 1.98e-02 -8.38e-03  
## 2021 -3.07e-05 7.02e-04 -7.48e-06 3.46e-04 -4.34e-05 2.14e-04 -1.79e-04  
## 2022 1.55e-04 -8.45e-04 -1.90e-03 7.35e-03 1.05e-02 -6.42e-03 -1.54e-03  
## 2023 -1.05e-03 -2.33e-03 -4.25e-04 -1.69e-04 -2.12e-04 -2.75e-04 -6.10e-04  
## 2024 -5.24e-04 -1.10e-03 -1.54e-04 4.25e-04 3.28e-04 9.34e-04 2.53e-05  
## 2025 6.20e-02 1.24e-02 1.56e-02 3.20e-02 -5.02e-02 -4.33e-02 -5.84e-02  
## 2026 1.98e-02 8.63e-03 -1.83e-02 -1.68e-02 3.14e-03 8.20e-03 -1.53e-04  
## 2027 3.10e-03 1.08e-02 1.07e-02 1.29e-02 8.83e-03 9.42e-03 7.98e-03  
## 2028 1.87e-02 1.24e-04 -9.82e-03 -6.60e-03 -1.62e-02 -8.55e-03 1.26e-02  
## 2029 1.17e-05 2.77e-02 8.24e-03 1.37e-02 1.07e-02 1.07e-02 9.82e-03  
## 2030 -1.44e-03 1.62e-03 -2.07e-03 -1.96e-03 -2.69e-03 2.36e-03 9.47e-04  
## 2031 -4.16e-03 5.33e-03 -6.71e-03 -7.54e-03 3.66e-03 5.10e-03 3.90e-03  
## 2032 2.48e-02 2.81e-03 1.09e-02 7.25e-03 1.05e-02 8.10e-04 1.69e-02  
## 2033 -2.51e-02 1.81e-03 1.39e-02 7.60e-03 9.83e-03 4.27e-03 2.03e-02  
## 2034 2.32e-02 -5.24e-04 -1.48e-02 -8.26e-03 -1.79e-02 -1.01e-02 9.47e-03  
## 2035 -1.61e-02 4.00e-03 2.48e-02 -8.49e-03 -8.92e-03 -6.07e-03 -1.50e-02  
## 2036 -4.40e-03 -4.16e-03 3.22e-03 2.92e-03 1.81e-03 1.93e-03 4.10e-03  
## 2037 -3.73e-04 -1.47e-03 -3.54e-04 4.06e-04 4.29e-04 1.23e-03 2.54e-05  
## 2038 1.22e-02 6.75e-03 -1.19e-02 7.39e-03 -1.43e-02 -1.52e-02 2.03e-03  
## 2039 -2.27e-02 3.49e-03 1.41e-02 1.04e-02 1.14e-02 5.17e-03 1.55e-02  
## 2040 -3.55e-04 -3.36e-03 -9.27e-04 -4.97e-04 -3.98e-04 1.11e-04 -9.31e-04  
## 2041 4.06e-04 -1.22e-03 -1.06e-03 5.93e-03 -4.83e-04 -2.12e-03 6.52e-04  
## 2042 4.40e-03 1.08e-02 1.07e-02 1.29e-02 8.52e-03 1.04e-02 7.83e-03  
## 2043 -5.07e-03 1.00e-02 4.43e-03 -3.44e-02 -2.73e-02 1.46e-02 -2.43e-02  
## 2044 1.84e-02 5.39e-03 -9.16e-03 -1.90e-03 1.75e-02 -5.88e-03 9.00e-03  
## 2045 1.29e-03 -6.53e-04 -4.44e-03 8.28e-03 -9.14e-03 5.45e-03 9.70e-03  
## 2046 1.06e-03 1.77e-03 1.67e-03 1.54e-03 2.08e-03 1.76e-03 -2.52e-03  
## 2047 2.77e-03 1.59e-03 -4.37e-04 -9.64e-04 -4.05e-04 -4.38e-04 -8.54e-05  
## 2048 7.69e-03 -8.52e-03 1.68e-02 1.01e-02 -1.22e-02 -2.18e-02 -4.92e-03  
## 2049 -1.33e-02 7.42e-03 2.46e-02 -1.90e-02 3.52e-02 -1.36e-02 -2.68e-02  
## 2050 -3.37e-02 -3.95e-02 -8.87e-03 -1.12e-02 -4.43e-03 -9.91e-03 -3.38e-03  
## 2051 7.75e-03 -1.59e-02 1.36e-02 -1.81e-02 -1.01e-02 -1.64e-02 -6.07e-03  
## 2052 4.66e-03 2.52e-04 -9.21e-03 1.02e-02 9.54e-03 6.24e-03 1.02e-02  
## 2053 -3.75e-02 -1.26e-02 -1.32e-02 4.20e-02 -1.93e-02 3.92e-02 3.62e-02  
## 2054 -5.90e-03 -4.85e-03 4.25e-03 3.89e-03 2.83e-03 2.36e-03 5.60e-03  
## 2055 1.11e-02 -6.35e-03 -1.77e-02 8.57e-03 -2.12e-02 8.54e-03 -1.67e-02  
## 2056 -4.84e-03 -4.62e-03 3.09e-03 2.62e-03 2.06e-03 1.91e-03 3.74e-03  
## 2057 1.00e-02 -4.43e-02 -1.46e-02 -2.33e-02 4.67e-02 -1.95e-02 -1.04e-02  
## 2058 4.66e-04 -1.75e-04 1.43e-05 -2.11e-05 -5.01e-06 -6.74e-07 -2.61e-05  
## 2059 -1.83e-03 1.59e-03 2.18e-03 -1.84e-03 2.54e-03 -1.65e-03 -1.85e-03  
## 2060 -3.26e-04 -6.53e-04 -4.71e-05 2.04e-05 -4.61e-05 -4.72e-05 -1.64e-04  
## 2061 1.12e-02 4.72e-03 1.71e-02 1.13e-02 1.59e-02 9.24e-03 -2.09e-02  
## 2062 4.31e-04 -1.46e-04 1.05e-05 -7.05e-06 -6.60e-06 -1.43e-05 6.44e-06  
## 2063 8.14e-04 1.19e-03 -6.12e-03 9.02e-03 -5.68e-03 1.03e-02 -3.02e-03  
## 2064 5.72e-03 -1.12e-02 -6.92e-03 -1.08e-02 1.02e-02 -1.27e-02 -1.03e-02  
## 2065 1.08e-02 1.23e-02 -4.41e-03 2.74e-02 -8.97e-03 -6.74e-03 1.17e-02  
## 2066 -3.77e-02 -3.41e-02 3.73e-02 4.39e-02 -1.39e-02 -2.30e-02 -2.42e-03  
## 2067 2.38e-04 1.08e-04 -3.69e-04 2.48e-03 2.52e-03 -1.01e-03 -7.24e-04  
## 2068 1.06e-04 2.08e-04 1.50e-05 7.75e-06 2.44e-05 1.85e-05 5.96e-05  
## 2069 -6.07e-04 -5.34e-03 -1.38e-03 -1.87e-03 -1.70e-03 -2.13e-03 -2.25e-03  
## 2070 3.69e-02 3.60e-02 2.08e-02 3.72e-02 -3.23e-02 3.72e-02 1.59e-02  
## 2071 4.00e-03 2.36e-03 2.11e-02 8.59e-03 -1.49e-02 9.50e-03 -7.09e-03  
## 2072 -4.28e-03 1.29e-02 5.58e-03 9.96e-03 8.32e-03 -1.08e-02 8.85e-03  
## 2073 1.58e-02 -3.14e-04 -1.02e-02 -9.99e-03 -9.10e-03 -7.60e-03 -1.46e-02  
## 2074 -3.87e-03 8.56e-03 -1.07e-02 -9.46e-03 4.39e-03 8.85e-03 2.88e-03  
## 2075 7.21e-04 -3.01e-03 -2.32e-03 -8.07e-03 1.06e-02 7.26e-03 -3.01e-03  
## 2076 6.01e-04 1.26e-03 -6.81e-04 -9.35e-04 -5.78e-04 1.40e-03 -8.38e-04  
## 2077 -2.04e-02 -2.77e-03 1.50e-02 1.17e-02 -2.56e-02 8.96e-03 1.94e-02  
## 2078 1.18e-02 -5.58e-03 -1.51e-03 -2.31e-03 -2.42e-03 -3.14e-03 -2.47e-03  
## 2079 3.20e-04 2.68e-02 7.45e-03 1.26e-02 1.08e-02 1.02e-02 9.64e-03  
## 2080 1.71e-02 7.19e-04 -1.16e-02 -1.17e-02 -1.01e-02 -8.96e-03 -1.61e-02  
## 2081 -8.23e-03 -3.05e-03 -1.11e-02 -2.75e-03 -1.37e-02 -3.14e-03 1.14e-02  
## 2082 2.24e-02 -1.13e-03 -1.53e-02 -1.20e-02 -1.63e-02 -1.04e-02 2.19e-02  
## 2083 -9.95e-03 9.74e-03 3.54e-02 3.88e-02 -1.11e-02 -1.88e-02 -6.37e-03  
## 2084 1.00e-02 1.64e-02 6.68e-03 8.99e-03 -1.19e-02 8.20e-03 4.67e-03  
## 2085 -1.70e-04 -9.69e-05 -1.26e-03 1.99e-03 -1.25e-03 -1.09e-03 1.32e-03  
## 2086 -1.04e-03 7.49e-04 7.39e-03 7.47e-03 5.11e-03 -1.33e-02 4.71e-03  
## 2087 1.26e-03 1.15e-03 -1.77e-04 -5.50e-04 -2.57e-04 -5.87e-04 -1.98e-05  
## 2088 -5.57e-03 -5.33e-03 4.12e-03 2.86e-03 3.76e-03 3.14e-03 -9.11e-03  
## 2089 1.35e-02 -6.55e-03 -1.91e-03 -2.61e-03 -2.53e-03 -3.07e-03 -2.89e-03  
## 2090 -8.20e-04 -4.79e-03 -1.07e-03 -1.53e-03 -1.61e-03 -1.98e-03 -2.11e-03  
## 2091 1.20e-02 1.94e-03 -5.95e-03 -2.51e-03 -7.34e-03 -4.96e-03 1.71e-02  
## 2092 -2.17e-04 2.81e-02 7.82e-03 9.10e-03 8.89e-03 9.02e-03 1.23e-02  
## 2093 -2.33e-02 -1.21e-02 9.62e-03 1.89e-03 -3.36e-02 1.19e-02 -1.60e-02  
## 2094 2.73e-02 -1.82e-02 8.64e-03 -4.55e-02 1.40e-02 1.00e-02 2.73e-02  
## 2095 8.50e-03 -4.25e-03 1.50e-02 1.16e-02 1.10e-02 -2.60e-02 1.43e-02  
## 2096 3.53e-04 3.39e-03 1.15e-02 8.63e-03 -2.58e-03 9.10e-03 -9.38e-04  
## 2097 -1.83e-02 2.95e-02 -2.91e-02 3.26e-02 2.38e-02 3.17e-02 -4.73e-02  
## 2098 1.82e-02 -4.34e-03 1.45e-02 9.56e-03 -3.30e-02 8.09e-03 2.10e-02  
## 2099 -2.63e-02 2.69e-03 1.49e-02 8.33e-03 1.15e-02 3.62e-03 1.87e-02  
## 2100 -1.15e-02 9.08e-04 -5.59e-03 -2.67e-03 -7.56e-03 -2.95e-03 -1.66e-02  
## 2101 -1.61e-02 -1.09e-03 -8.27e-03 -7.34e-03 -7.08e-03 -4.82e-03 -1.21e-02  
## 2102 -9.58e-04 1.52e-03 1.01e-03 -8.95e-04 1.03e-03 1.21e-03 9.11e-04  
## 2103 1.28e-02 -8.28e-03 -2.27e-02 8.13e-03 -2.36e-02 8.42e-03 2.71e-02  
## 2104 -5.18e-03 1.18e-02 5.21e-03 5.98e-03 3.32e-03 4.03e-03 1.45e-03  
## 2105 2.65e-03 -8.59e-04 -9.30e-05 9.11e-05 1.95e-04 3.27e-04 -1.13e-04  
## 2106 -2.05e-04 -6.34e-03 -1.63e-03 -1.97e-03 -1.91e-03 -2.03e-03 -2.61e-03  
## 2107 -1.21e-04 -1.37e-04 1.22e-05 7.61e-05 5.51e-05 9.28e-05 3.50e-05  
## 2108 5.53e-03 3.92e-03 3.52e-03 -3.72e-03 3.02e-03 -4.59e-03 1.40e-03  
## 2109 5.59e-03 -1.61e-03 -1.07e-02 1.16e-02 -1.13e-02 1.22e-02 2.31e-02  
## 2110 -2.36e-03 1.31e-03 -3.88e-03 -4.02e-03 2.16e-03 -4.94e-03 1.03e-03  
## 2111 7.29e-05 -1.05e-03 -2.05e-05 -6.05e-04 4.99e-05 -3.07e-04 2.77e-04  
## 2112 -3.92e-02 -3.66e-02 -8.19e-03 -1.41e-02 4.23e-02 -1.33e-02 -5.75e-03  
## 2113 1.74e-03 2.86e-03 2.59e-03 2.42e-03 1.38e-03 1.81e-03 2.19e-03  
## 2114 -2.44e-02 1.44e-03 1.59e-02 1.13e-02 1.59e-02 9.66e-03 3.01e-02  
## 2115 -7.05e-04 -1.11e-03 -9.32e-05 -2.45e-04 -2.19e-04 -2.94e-04 -2.37e-04  
## 2116 1.40e-03 9.19e-04 -2.81e-04 -6.35e-04 -3.49e-04 -4.61e-04 -1.97e-04  
## 2117 5.11e-05 -6.77e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.23e-03 -2.63e-03  
## 2118 2.54e-02 2.19e-02 7.55e-03 1.07e-02 1.46e-02 -2.24e-02 -1.85e-02  
## 2119 1.29e-02 -2.68e-03 -2.11e-02 9.90e-03 1.02e-02 6.72e-03 1.56e-02  
## 2120 -4.42e-03 -1.46e-02 -1.44e-02 -1.42e-02 -1.20e-02 -1.22e-02 -1.11e-02  
## 2121 1.13e-03 3.18e-03 2.23e-03 -1.33e-03 2.43e-03 2.69e-03 -1.33e-03  
## 2122 -4.51e-03 2.58e-02 6.67e-03 1.05e-02 5.16e-03 8.95e-03 2.84e-03  
## 2123 2.61e-03 1.31e-02 3.48e-02 3.78e-02 4.08e-02 -3.47e-02 -2.24e-02  
## 2124 9.07e-03 4.66e-03 -8.79e-03 -1.06e-02 -1.08e-02 5.88e-03 -1.30e-02  
## 2125 -1.41e-02 3.04e-04 -6.03e-03 -3.45e-03 -4.59e-03 -2.89e-03 -1.04e-02  
## 2126 -1.29e-02 1.24e-02 2.08e-02 3.61e-02 -3.32e-02 -3.10e-02 2.95e-02  
## 2127 -1.19e-05 -4.59e-04 1.09e-03 -7.93e-04 -7.61e-04 -6.58e-04 -1.15e-03  
## 2128 -6.16e-04 -1.65e-03 -2.37e-04 -2.35e-05 -1.61e-04 -1.30e-04 -3.09e-04  
## 2129 1.33e-02 -5.94e-04 -7.25e-03 -3.93e-03 -5.22e-03 -2.28e-03 -1.03e-02  
## 2130 7.73e-06 -6.60e-03 -1.78e-03 -2.10e-03 -2.09e-03 -2.15e-03 -2.66e-03  
## 2131 3.92e-03 -7.96e-03 -8.20e-03 -1.74e-02 1.56e-02 1.09e-02 -7.56e-03  
## 2132 2.09e-02 -8.08e-03 -3.12e-02 7.08e-03 1.32e-02 8.70e-03 -2.76e-02  
## 2133 9.27e-03 -2.97e-03 -7.18e-04 -3.27e-04 8.35e-05 9.33e-04 8.90e-05  
## 2134 4.12e-03 -3.97e-03 -5.50e-03 1.88e-03 2.85e-03 1.90e-03 -6.03e-03  
## 2135 -9.22e-03 3.16e-02 7.14e-03 6.95e-03 1.23e-02 1.28e-02 -2.57e-02  
## 2136 -1.21e-02 -4.38e-03 -1.97e-02 -1.55e-02 -1.99e-02 -1.04e-02 -3.18e-02  
## 2137 -7.58e-04 -4.19e-03 -7.86e-04 -1.03e-03 -1.15e-03 -1.67e-03 -1.44e-03  
## 2138 -3.62e-03 8.46e-03 5.19e-03 -8.34e-03 -9.48e-03 9.72e-03 7.52e-03  
## 2139 1.42e-02 2.62e-02 8.05e-03 1.06e-02 -1.15e-02 1.48e-02 -1.17e-02  
## 2140 -3.95e-03 1.61e-02 7.08e-03 1.04e-02 5.22e-03 -2.17e-02 4.43e-03  
## 2141 -1.67e-02 -3.59e-03 1.12e-02 1.05e-02 -2.80e-02 9.18e-03 1.69e-02  
## 2142 1.57e-03 -5.85e-03 -1.91e-03 -4.54e-03 -1.85e-03 -3.69e-03 -8.52e-04  
## 2143 -6.55e-04 -4.58e-03 -1.19e-03 -1.64e-03 -1.48e-03 -1.89e-03 -2.11e-03  
## 2144 -4.57e-05 -5.11e-03 -1.14e-03 -1.38e-03 -1.66e-03 -1.65e-03 -1.82e-03  
## 2145 6.33e-03 3.42e-03 1.91e-02 1.24e-02 -1.18e-02 1.71e-02 -3.00e-03  
## 2146 1.84e-02 1.23e-03 1.41e-02 6.92e-03 1.54e-02 7.44e-03 3.06e-02  
## 2147 -1.59e-04 6.81e-05 5.59e-06 1.80e-05 6.85e-06 8.06e-06 1.78e-05  
## 2148 2.86e-02 3.33e-02 7.50e-03 9.50e-03 3.82e-03 8.47e-03 3.13e-03  
## 2149 -2.15e-02 -2.19e-03 1.47e-02 1.09e-02 -2.67e-02 8.50e-03 1.91e-02  
## 2150 -2.12e-04 -3.31e-04 1.48e-05 1.89e-04 9.17e-05 2.80e-04 5.04e-05  
## 2151 -1.09e-02 -3.33e-03 -1.47e-02 -8.60e-03 -1.47e-02 -6.79e-03 -2.59e-02  
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## 2153 3.64e-03 -1.89e-03 -1.00e-02 1.11e-02 -7.96e-03 1.45e-02 -2.58e-03  
## 2154 4.35e-04 4.37e-04 5.69e-04 -3.39e-04 -2.65e-04 -2.30e-04 -2.94e-04  
## 2155 6.98e-03 -1.99e-03 -5.50e-04 1.54e-04 2.95e-04 9.80e-04 -3.56e-04  
## 2156 8.04e-03 -4.58e-03 3.44e-03 3.39e-03 2.79e-03 1.90e-03 4.41e-03  
## 2157 1.39e-02 5.08e-03 -8.39e-03 -6.28e-03 2.63e-02 -6.83e-03 -1.55e-02  
## 2158 1.30e-02 -9.07e-03 -2.21e-02 9.66e-03 -2.24e-02 9.60e-03 -1.96e-02  
## 2159 -9.57e-03 1.82e-03 -1.05e-02 -2.03e-03 1.78e-02 -4.29e-03 9.51e-03  
## 2160 4.20e-03 2.27e-03 2.67e-04 9.94e-04 6.17e-04 8.75e-04 8.34e-04  
## 2161 -7.10e-04 -3.04e-03 -6.12e-04 -2.47e-04 -3.45e-04 9.07e-05 -7.82e-04  
## 2162 2.19e-03 -6.45e-03 -3.22e-03 -5.72e-03 -5.51e-03 -7.48e-03 7.13e-03  
## 2163 -7.82e-03 4.21e-04 -4.12e-03 6.30e-04 -7.39e-03 -7.92e-04 8.18e-03  
## 2164 -1.13e-02 -1.75e-03 -6.26e-03 -2.43e-03 -4.60e-03 1.31e-04 -9.26e-03  
## 2165 2.97e-03 -2.78e-03 -3.72e-03 1.45e-03 1.08e-03 9.66e-04 1.72e-03  
## 2166 -2.53e-03 3.05e-03 4.53e-03 -6.27e-03 -8.47e-03 -6.06e-03 3.15e-03  
## 2167 -5.32e-03 2.28e-02 5.59e-03 9.84e-03 -2.46e-02 1.17e-02 1.33e-02  
## 2168 -4.62e-03 2.44e-02 6.60e-03 1.04e-02 4.98e-03 8.82e-03 2.17e-03  
## 2169 -2.04e-02 -9.47e-03 9.66e-03 8.57e-03 -3.20e-02 1.14e-02 3.34e-02  
## 2170 -7.88e-04 -2.44e-03 -4.20e-04 -2.09e-04 -2.32e-04 2.33e-07 -7.22e-04  
## 2171 2.90e-02 1.06e-02 -2.40e-02 -2.04e-02 -2.43e-02 3.84e-02 2.55e-02  
## 2172 1.74e-03 1.32e-03 -1.28e-04 -1.13e-04 -5.66e-05 -1.08e-04 -4.21e-06  
## 2173 -3.26e-04 -8.44e-04 -9.22e-04 -3.19e-03 -1.38e-03 6.48e-03 8.64e-03  
## 2174 1.25e-03 1.01e-03 -1.66e-05 -2.96e-04 -3.13e-04 -3.16e-04 9.21e-05  
## 2175 -3.86e-04 -3.40e-03 -8.25e-04 -3.28e-04 -3.66e-04 2.61e-04 -9.80e-04  
## 2176 -5.76e-03 -7.69e-04 -9.05e-04 4.55e-03 -8.85e-04 -2.39e-03 6.53e-03  
## 2177 5.25e-03 4.74e-03 -4.96e-03 5.33e-03 -4.41e-03 -5.09e-03 -4.12e-03  
## 2178 2.40e-03 -3.46e-04 1.14e-02 1.01e-02 -2.19e-03 -5.59e-03 1.29e-03  
## 2179 -3.85e-03 1.47e-02 6.62e-03 9.80e-03 5.09e-03 -2.07e-02 3.69e-03  
## 2180 -1.04e-02 3.30e-03 -2.64e-03 3.64e-04 1.65e-02 -8.15e-04 -1.26e-02  
## 2181 -4.23e-02 -3.97e-02 -2.06e-02 3.89e-02 -1.28e-02 -2.02e-02 -3.88e-03  
## 2182 1.05e-03 1.02e-03 -5.15e-05 -4.08e-04 -2.77e-04 -4.13e-04 -2.95e-05  
## 2183 1.92e-05 -2.29e-04 -1.61e-05 -1.45e-04 1.61e-05 -8.54e-05 5.15e-05  
## 2184 6.09e-04 7.58e-04 9.91e-03 1.01e-02 7.47e-03 -1.91e-02 6.95e-03  
## 2185 -4.05e-03 1.50e-03 -2.54e-04 -4.67e-04 -3.38e-04 -9.50e-05 1.97e-04  
## 2186 -2.14e-03 -4.01e-03 1.91e-03 -4.56e-03 1.12e-03 1.56e-03 1.79e-03  
## 2187 8.72e-03 1.69e-03 -2.84e-03 5.23e-04 -5.92e-03 -1.68e-03 7.25e-03  
## 2188 3.18e-05 -1.59e-05 2.48e-05 2.66e-05 1.67e-05 1.81e-05 2.47e-05  
## 2189 -6.07e-04 -7.76e-04 2.33e-05 -1.47e-04 -1.84e-04 -2.04e-04 -1.09e-04  
## 2190 1.20e-02 1.88e-03 -5.93e-03 -2.48e-03 -7.34e-03 -4.96e-03 1.74e-02  
## 2191 8.72e-03 -3.27e-03 -8.46e-04 -7.87e-04 -6.37e-04 -1.13e-03 -1.12e-03  
## 2192 -9.25e-04 -4.12e-03 -6.62e-04 -8.93e-04 -1.26e-03 -1.76e-03 -1.41e-03  
## 2193 2.69e-03 4.75e-03 3.22e-03 3.42e-03 2.98e-03 -4.71e-03 2.76e-03  
## 2194 1.58e-02 1.35e-02 7.93e-03 1.17e-02 -1.60e-02 -1.41e-02 8.14e-03  
## 2195 -2.98e-04 8.42e-05 -1.01e-05 -3.31e-05 -2.28e-05 -2.02e-05 -8.60e-06  
## 2196 -5.09e-03 1.70e-02 -1.39e-02 8.95e-03 7.24e-03 1.04e-02 -1.74e-02  
## 2197 -1.78e-03 2.87e-04 -3.30e-03 -2.94e-03 -2.47e-03 -2.17e-03 -3.04e-03  
## 2198 1.56e-02 -1.50e-03 -8.40e-03 -4.59e-03 -6.53e-03 -1.81e-03 -1.17e-02  
## 2199 1.79e-05 -1.00e-04 -1.96e-05 -6.08e-05 -4.16e-05 -7.48e-05 1.86e-04  
## 2200 -4.67e-03 1.76e-02 1.06e-02 3.21e-02 1.30e-02 -4.81e-02 3.64e-03  
## 2201 -2.51e-02 -5.47e-03 -2.07e-02 9.16e-03 -1.65e-02 1.54e-02 -7.44e-03  
## 2202 -5.60e-03 4.90e-03 2.01e-02 -1.60e-02 2.55e-02 -1.17e-02 -3.91e-02  
## 2203 1.43e-02 5.43e-03 -7.56e-03 -3.95e-03 2.13e-02 -6.33e-03 1.54e-02  
## 2204 -6.70e-03 3.13e-03 -1.21e-03 1.45e-03 1.01e-02 -4.08e-04 5.13e-03  
## 2205 -9.49e-04 -7.67e-03 -2.15e-03 -3.59e-03 -2.53e-03 -3.27e-03 -3.02e-03  
## 2206 5.42e-04 4.98e-04 6.50e-03 5.97e-03 -3.01e-04 -2.10e-03 6.39e-04  
## 2207 5.14e-03 -4.55e-03 1.60e-02 -1.70e-02 -8.50e-03 1.50e-02 -3.73e-03  
## 2208 -4.65e-04 -3.07e-03 -7.84e-04 -4.27e-04 -3.49e-04 6.97e-05 -8.55e-04  
## 2209 6.82e-03 -1.78e-03 -3.72e-04 4.96e-04 3.64e-04 9.56e-04 4.55e-05  
## 2210 1.78e-02 6.80e-03 2.36e-02 -6.59e-03 -1.13e-02 -7.73e-03 -2.27e-02  
## 2211 8.93e-05 8.98e-05 -2.61e-04 1.68e-04 1.42e-04 1.54e-04 -3.22e-04  
## 2212 2.07e-03 -8.49e-03 1.31e-02 -1.10e-02 -5.11e-03 -1.14e-02 -3.71e-03  
## 2213 -4.47e-03 -3.84e-03 2.95e-03 2.36e-03 2.01e-03 1.68e-03 3.48e-03  
## 2214 5.86e-03 -4.76e-03 -7.42e-03 2.13e-03 1.57e-03 1.26e-03 2.24e-03  
## 2215 -2.78e-02 3.94e-04 1.38e-02 5.83e-03 2.15e-02 7.87e-03 -1.83e-02  
## 2216 6.16e-03 -4.49e-03 3.02e-03 3.15e-03 -8.49e-03 2.19e-03 4.28e-03  
## 2217 1.00e-02 -7.07e-03 5.59e-03 2.31e-03 8.10e-03 4.56e-03 -8.03e-03  
## 2218 9.62e-03 -2.31e-03 1.84e-02 9.21e-03 -1.83e-02 1.17e-02 -6.85e-03  
## 2219 -1.33e-02 3.73e-03 2.29e-02 -8.50e-03 -1.39e-02 -8.15e-03 -2.54e-02  
## 2220 2.07e-02 4.14e-03 2.31e-02 -7.01e-03 -8.83e-03 -3.25e-03 -1.39e-02  
## 2221 -2.90e-04 5.63e-03 -1.47e-02 8.73e-03 1.02e-02 1.10e-02 -1.75e-02  
## 2222 5.09e-04 -3.46e-04 3.97e-03 -2.42e-03 4.38e-03 -2.85e-03 3.39e-03  
## 2223 -2.94e-04 -3.68e-04 -1.78e-05 -8.50e-05 -9.14e-05 -1.36e-04 -8.06e-05  
## 2224 -2.73e-04 4.53e-04 -1.69e-03 8.28e-03 1.18e-02 -5.19e-03 -3.82e-04  
## 2225 -2.02e-02 7.95e-04 1.23e-02 1.20e-02 1.20e-02 8.19e-03 1.77e-02  
## 2226 6.89e-04 6.04e-04 -6.77e-05 -3.10e-04 -1.97e-04 -2.97e-04 -9.42e-05  
## 2227 1.79e-02 -5.87e-04 -1.16e-02 -8.23e-03 -8.75e-03 -6.94e-03 -1.54e-02  
## 2228 5.54e-04 6.29e-04 -1.80e-05 -2.76e-04 -1.98e-04 -3.36e-04 -2.78e-05  
## 2229 -1.50e-03 7.92e-04 -1.79e-03 -2.18e-03 1.57e-03 -2.40e-03 -3.39e-03  
## 2230 6.81e-03 7.15e-03 -5.79e-03 7.10e-03 4.43e-03 -4.58e-03 3.35e-03  
## 2231 7.19e-03 5.57e-03 -6.68e-03 -7.43e-03 -7.84e-03 7.93e-03 -9.66e-03  
## 2232 -2.58e-02 1.63e-03 1.45e-02 7.60e-03 1.07e-02 4.34e-03 2.04e-02  
## 2233 -3.48e-05 1.45e-03 -1.46e-02 9.75e-03 -1.33e-02 1.18e-02 1.55e-02  
## 2234 -2.13e-02 -2.30e-02 9.64e-03 5.27e-03 2.05e-02 -4.68e-02 -1.75e-02  
## 2235 1.03e-03 7.89e-05 -3.71e-03 1.32e-03 -3.54e-03 2.18e-03 -2.54e-03  
## 2236 -1.97e-03 -2.27e-03 1.46e-03 1.90e-03 1.31e-03 1.57e-03 1.99e-03  
## 2237 7.05e-04 -2.41e-04 3.20e-05 1.52e-05 8.35e-06 1.85e-05 6.44e-06  
## 2238 3.10e-03 -1.33e-03 -1.89e-04 -2.23e-04 -2.67e-04 -5.22e-04 -4.14e-04  
## 2239 2.92e-04 3.39e-03 -7.88e-03 1.01e-02 1.92e-02 8.03e-03 -7.08e-03  
## 2240 -4.69e-02 -1.97e-02 3.98e-02 3.59e-02 -2.08e-02 3.99e-02 -1.10e-02  
## 2241 1.30e-04 3.36e-04 5.67e-03 5.23e-03 3.94e-05 -1.75e-03 6.48e-04  
## 2242 -1.56e-02 1.49e-02 -2.80e-03 2.80e-02 1.93e-02 -5.16e-03 1.06e-02  
## 2243 2.88e-04 3.05e-04 1.03e-07 -1.03e-04 -7.80e-05 -1.66e-04 3.15e-05  
## 2244 1.20e-02 1.13e-02 6.41e-03 -1.31e-02 3.27e-03 5.55e-03 1.04e-03  
## 2245 -5.59e-03 1.59e-02 6.76e-03 9.86e-03 1.19e-02 -2.10e-02 -1.80e-02  
## 2246 -7.24e-04 -2.71e-03 -5.12e-04 -2.39e-04 -2.55e-04 6.23e-05 -8.01e-04  
## 2247 -7.17e-03 2.37e-02 5.41e-03 5.17e-03 -2.62e-02 1.21e-02 -2.21e-02  
## 2248 1.79e-03 1.87e-03 -1.28e-04 -9.80e-05 1.67e-04 5.05e-04 5.36e-04  
## 2249 7.97e-03 -5.04e-03 4.03e-03 3.62e-03 4.12e-03 3.92e-03 9.13e-03  
## 2250 -2.95e-05 1.57e-04 5.46e-05 1.24e-04 1.13e-04 1.62e-04 -2.78e-04  
## 2251 -3.13e-03 1.36e-02 6.67e-03 -1.44e-02 4.24e-03 9.56e-03 1.97e-03  
## 2252 -9.21e-04 4.10e-04 -3.81e-03 -2.62e-03 -4.21e-03 -2.73e-03 1.47e-03  
## 2253 2.64e-03 4.17e-03 3.40e-03 3.69e-03 -2.04e-03 -2.70e-03 -2.33e-03  
## 2254 2.47e-04 -4.14e-04 -3.01e-04 2.70e-04 3.89e-04 -3.66e-04 -1.36e-04  
## 2255 -6.01e-04 -1.68e-03 -2.59e-04 6.32e-04 5.33e-04 1.48e-03 1.64e-04  
## 2256 1.62e-02 1.91e-02 -1.20e-02 -1.41e-02 3.07e-02 3.50e-02 -2.06e-02  
## 2257 9.64e-03 2.08e-02 8.97e-03 8.40e-03 4.98e-03 4.96e-03 3.30e-03  
## 2258 1.23e-02 1.52e-03 -6.49e-03 -3.12e-03 -7.42e-03 -5.21e-03 1.68e-02  
## 2259 1.44e-02 4.47e-02 3.34e-02 3.75e-02 3.07e-02 3.38e-02 -2.64e-02  
## 2260 1.84e-04 -9.97e-04 -2.50e-04 -6.95e-04 -1.09e-04 -3.95e-04 2.27e-05  
## 2261 -1.49e-02 2.03e-02 2.22e-02 -2.68e-03 1.79e-02 2.52e-02 7.55e-03  
## 2262 -1.37e-02 -8.86e-03 1.16e-02 -1.04e-02 -4.18e-03 -9.21e-03 -2.47e-03  
## 2263 2.33e-05 -1.66e-04 -3.06e-05 -1.14e-04 -8.66e-06 -7.40e-05 1.25e-05  
## 2264 -6.37e-04 -7.31e-04 -1.52e-05 1.34e-05 5.98e-05 2.64e-04 -3.05e-05  
## 2265 1.53e-02 -8.58e-04 -1.00e-02 -9.89e-03 -8.82e-03 -7.41e-03 -1.46e-02  
## 2266 1.11e-02 4.29e-03 -5.01e-03 -9.84e-04 1.81e-02 -2.86e-03 1.35e-02  
## 2267 -3.16e-02 4.39e-03 2.06e-02 8.67e-03 2.23e-02 9.57e-03 -1.20e-02  
## 2268 -4.14e-03 2.16e-02 6.84e-03 9.42e-03 -2.61e-02 9.83e-03 5.74e-03  
## 2269 -7.42e-04 -1.54e-03 -2.91e-04 -1.96e-04 -1.12e-04 -2.37e-04 -4.78e-04  
## 2270 2.38e-02 2.95e-02 -1.82e-02 3.61e-02 -2.37e-02 3.41e-02 1.39e-02  
## 2271 -1.51e-02 -7.40e-05 -7.14e-03 -4.92e-03 -5.22e-03 -3.00e-03 -1.21e-02  
## 2272 7.75e-03 -8.28e-03 1.68e-02 1.07e-02 -1.29e-02 -2.73e-02 -7.22e-03  
## 2273 -9.39e-03 2.28e-02 1.64e-02 -2.80e-02 1.89e-02 3.97e-02 7.90e-03  
## 2274 -5.48e-03 1.75e-02 7.01e-03 -2.29e-02 3.30e-03 7.32e-03 -4.52e-04  
## 2275 1.74e-03 -6.63e-04 -3.86e-06 -3.49e-04 -9.10e-05 -3.86e-04 -2.63e-04  
## 2276 2.65e-02 -2.00e-02 1.14e-02 1.47e-03 2.11e-02 -5.73e-02 -2.20e-02  
## 2277 -3.17e-02 -3.27e-02 -9.05e-03 -9.75e-03 3.60e-02 -1.27e-02 -1.79e-02  
## 2278 -1.54e-03 -7.80e-03 -3.92e-02 -1.96e-02 1.81e-02 -1.73e-02 7.82e-03  
## 2279 1.37e-02 4.61e-04 -8.25e-03 -5.95e-03 -6.54e-03 -5.39e-03 -1.33e-02  
## 2280 -2.38e-03 9.27e-03 5.57e-03 -1.41e-02 -1.83e-02 9.31e-03 2.99e-03  
## 2281 -1.29e-02 1.46e-02 -3.51e-02 3.72e-02 2.72e-02 -2.35e-02 -4.44e-02  
## 2282 -6.46e-03 1.31e-02 5.79e-03 7.62e-03 -2.37e-02 -2.74e-02 1.28e-02  
## 2283 -1.77e-03 8.40e-03 1.25e-02 -4.29e-02 5.89e-03 2.75e-02 -7.65e-04  
## 2284 -2.17e-02 -1.06e-02 -3.69e-02 6.18e-03 1.29e-02 9.86e-03 -3.10e-02  
## 2285 -1.10e-04 2.64e-04 -1.14e-03 2.65e-04 1.33e-05 2.35e-04 -7.82e-05  
## 2286 -3.21e-03 -3.18e-03 -9.62e-03 -6.59e-03 2.55e-02 -1.33e-02 2.10e-02  
## 2287 -1.17e-02 9.16e-04 -5.03e-03 -1.52e-03 -5.67e-03 -3.01e-03 1.48e-02  
## 2288 -2.02e-03 -1.24e-03 1.50e-03 1.16e-03 9.77e-04 7.78e-04 1.41e-03  
## 2289 -2.13e-03 -4.29e-03 1.89e-03 -5.08e-03 1.04e-03 1.58e-03 1.83e-03  
## 2290 -1.22e-02 1.02e-02 2.04e-02 -2.26e-04 1.71e-02 -4.95e-03 8.24e-03  
## 2291 -5.94e-03 -1.40e-02 -1.41e-02 -1.38e-02 -1.13e-02 -1.33e-02 -1.07e-02  
## 2292 -6.58e-03 2.98e-02 7.29e-03 1.00e-02 5.47e-03 7.14e-03 1.89e-03  
## 2293 -1.11e-02 1.79e-02 1.88e-02 -3.70e-02 1.24e-02 3.04e-02 3.33e-03  
## 2294 6.09e-04 3.67e-03 8.50e-03 7.64e-03 -4.00e-03 6.99e-03 8.78e-03  
## 2295 7.22e-04 -1.19e-03 7.76e-04 5.40e-04 -8.04e-04 -1.29e-03 -4.01e-04  
## 2296 -1.23e-02 1.35e-02 2.11e-02 3.56e-02 -3.83e-02 -3.21e-02 1.37e-02  
## 2297 2.40e-02 -1.61e-02 1.19e-02 8.90e-03 1.66e-02 -4.72e-02 3.39e-02  
## 2298 -3.09e-03 -3.12e-03 1.88e-03 2.15e-03 1.57e-03 1.37e-03 2.16e-03  
## 2299 6.48e-03 -2.99e-02 -1.18e-02 4.10e-02 -6.65e-03 -1.85e-02 -7.69e-04  
## 2300 -1.01e-02 -2.05e-03 -2.21e-03 -5.55e-03 9.26e-03 7.56e-03 -1.80e-03  
## 2301 1.15e-02 -4.48e-03 -2.14e-02 7.32e-03 1.79e-02 9.19e-03 -1.26e-02  
## 2302 -2.12e-02 7.63e-05 1.32e-02 9.87e-03 9.88e-03 8.54e-03 1.93e-02  
## 2303 -4.44e-03 1.15e-02 -1.59e-02 1.09e-02 8.41e-03 -1.38e-02 -1.75e-02  
## 2304 -4.26e-03 -1.45e-03 -7.10e-04 -2.11e-03 -8.41e-04 3.55e-03 -3.63e-04  
## 2305 2.16e-03 1.77e-03 1.21e-02 1.06e-02 1.26e-02 -6.99e-03 -4.33e-03  
## 2306 5.92e-04 1.24e-03 1.18e-03 1.40e-03 7.42e-04 8.39e-04 9.73e-04  
## 2307 -1.64e-02 -1.35e-02 1.45e-02 -1.53e-02 -8.53e-03 -1.58e-02 -4.52e-03  
## 2308 -7.26e-04 -2.62e-03 -5.46e-04 -3.29e-04 -2.79e-04 -5.13e-05 -6.94e-04  
## 2309 6.84e-03 -6.12e-03 1.51e-02 1.17e-02 -8.47e-03 -1.56e-02 -1.49e-03  
## 2310 -3.00e-03 -3.16e-03 1.80e-03 2.13e-03 1.51e-03 1.31e-03 2.36e-03  
## 2311 1.09e-02 1.31e-02 7.13e-03 8.12e-03 9.88e-03 -1.13e-02 -9.42e-03  
## 2312 -1.80e-04 -6.60e-03 -1.81e-03 -2.25e-03 -1.97e-03 -2.25e-03 -2.53e-03  
## 2313 3.57e-04 -9.33e-05 1.12e-05 4.37e-05 2.21e-05 2.71e-05 7.43e-06  
## 2314 -3.07e-05 7.60e-05 5.74e-05 1.57e-04 1.06e-04 -5.64e-04 1.68e-04  
## 2315 -2.37e-02 -2.27e-03 1.26e-02 8.93e-03 2.10e-02 1.14e-02 -1.45e-02  
## 2316 -2.42e-03 -1.65e-03 1.82e-03 1.85e-03 1.40e-03 1.17e-03 1.83e-03  
## 2317 1.76e-03 -8.87e-04 -6.82e-03 8.83e-03 -1.18e-02 7.12e-03 -1.16e-02  
## 2318 1.24e-03 1.11e-03 -2.12e-04 -5.74e-04 -2.89e-04 -6.17e-04 -5.48e-05  
## 2319 -1.24e-02 3.55e-03 -1.25e-02 -4.71e-03 2.00e-02 -9.20e-03 9.81e-03  
## 2320 -1.63e-02 1.24e-02 -1.09e-02 -7.17e-03 2.77e-02 3.66e-02 -1.62e-02  
## 2321 -5.75e-04 -7.38e-03 -1.59e-03 -2.77e-03 -2.73e-03 -2.90e-03 -2.22e-03  
## 2322 2.92e-04 -1.06e-03 -7.54e-04 4.14e-03 -5.22e-04 -2.36e-03 -7.31e-05  
## 2323 -2.82e-02 -3.68e-03 1.65e-02 7.00e-03 -2.91e-02 7.03e-03 -2.36e-02  
## 2324 9.72e-03 -2.00e-03 1.79e-02 8.45e-03 -2.04e-02 8.79e-03 -1.18e-02  
## 2325 2.41e-03 -1.68e-03 -3.88e-03 9.23e-03 1.00e-02 -7.61e-03 1.22e-02  
## 2326 1.46e-02 1.75e-02 -1.58e-02 8.45e-03 6.80e-03 6.64e-03 7.96e-03  
## 2327 1.25e-02 -5.08e-03 -1.13e-03 -2.10e-03 -1.36e-03 -1.83e-03 -1.11e-03  
## 2328 -4.54e-03 6.11e-03 4.91e-03 -5.87e-03 -5.91e-03 6.30e-03 -7.73e-03  
## 2329 -1.40e-03 -6.63e-04 1.14e-03 1.10e-03 -9.34e-04 1.78e-03 -3.14e-04  
## 2330 1.93e-02 1.83e-03 1.48e-02 2.89e-03 1.56e-02 2.10e-03 -3.42e-02  
## 2331 -3.56e-03 1.09e-02 6.13e-03 -2.03e-02 -2.37e-02 1.02e-02 3.20e-03  
## 2332 2.28e-02 -7.11e-04 -1.44e-02 -1.04e-02 -1.15e-02 -7.50e-03 -1.73e-02  
## 2333 -5.80e-03 1.31e-03 1.92e-02 -1.72e-02 1.76e-02 -2.22e-02 8.69e-03  
## 2334 3.77e-03 2.65e-03 -3.79e-04 -9.50e-04 -5.73e-04 -4.28e-04 1.72e-04  
## 2335 -8.76e-03 -8.41e-04 -7.00e-03 -6.41e-04 -9.55e-03 -2.27e-03 9.83e-03  
## 2336 -8.77e-04 -1.22e-04 4.83e-03 -5.02e-03 -4.71e-03 5.89e-03 6.09e-03  
## 2337 -1.29e-04 7.65e-04 1.54e-04 4.00e-04 -3.56e-05 2.76e-04 -3.50e-05  
## 2338 1.18e-02 -1.87e-02 1.42e-02 -2.33e-02 1.84e-02 -2.29e-02 -1.10e-02  
## 2339 -7.18e-03 2.99e-02 8.37e-03 1.10e-02 5.41e-03 9.14e-03 4.68e-03  
## 2340 1.64e-03 -2.58e-03 6.57e-03 -6.44e-03 -7.56e-03 -6.16e-03 6.27e-03  
## 2341 -3.94e-04 -7.28e-03 -1.44e-03 -2.67e-03 -2.63e-03 -2.30e-03 -2.40e-03  
## 2342 1.49e-05 1.77e-03 -1.23e-03 6.92e-03 -1.81e-03 7.00e-03 1.01e-02  
## 2343 1.15e-02 -3.90e-03 -1.27e-03 -7.97e-04 -8.08e-04 -7.33e-04 -1.03e-03  
## 2344 -5.46e-04 -5.39e-04 2.63e-03 -3.22e-03 -3.78e-03 1.96e-03 1.28e-03  
## 2345 -2.42e-04 3.32e-04 3.44e-04 -3.57e-03 8.06e-04 1.25e-03 -3.28e-03  
## 2346 2.74e-02 -1.25e-03 1.16e-02 3.54e-03 1.29e-02 6.91e-03 -3.50e-02  
## 2347 3.59e-03 -2.31e-03 3.48e-03 1.88e-03 3.99e-03 2.02e-03 -3.31e-03  
## 2348 -6.57e-04 -7.73e-03 -2.07e-03 -3.64e-03 -2.72e-03 -2.92e-03 -3.08e-03  
## 2349 -2.34e-02 -3.63e-03 1.09e-02 6.15e-03 1.52e-02 9.35e-03 3.35e-02  
## 2350 -3.62e-04 -9.79e-04 -1.16e-04 4.78e-04 3.53e-04 8.17e-04 1.91e-04  
## 2351 4.75e-03 -6.35e-03 3.10e-03 2.66e-03 -4.33e-03 -6.50e-03 -2.51e-03  
## 2352 -7.17e-03 1.61e-02 6.79e-03 6.72e-03 3.74e-03 4.83e-03 2.27e-03  
## 2353 -2.73e-04 -3.78e-04 2.59e-04 2.67e-04 3.02e-04 -4.25e-04 -3.39e-04  
## 2354 1.11e-04 1.25e-04 6.30e-06 7.47e-06 1.32e-05 3.81e-05 4.24e-05  
## 2355 1.23e-02 5.17e-03 -1.26e-02 -1.48e-02 -1.42e-02 6.65e-03 -1.77e-02  
## 2356 2.59e-03 1.88e-03 -3.22e-04 -8.41e-04 -5.38e-04 -5.71e-04 -3.43e-05  
## 2357 9.05e-03 -4.83e-02 -1.50e-02 -2.28e-02 -9.92e-03 -1.82e-02 -7.91e-03  
## 2358 -1.41e-03 -1.81e-04 7.81e-03 -1.36e-02 7.10e-03 6.05e-03 8.51e-03  
## 2359 -5.52e-03 2.79e-02 7.23e-03 9.48e-03 4.53e-03 9.15e-03 3.36e-03  
## 2360 2.08e-02 -1.14e-02 -3.10e-02 7.09e-03 -3.52e-02 6.12e-03 1.78e-02  
## 2361 1.84e-02 -1.63e-02 1.26e-02 7.86e-03 -2.64e-02 -3.85e-02 -2.38e-02  
## 2362 1.33e-02 -6.65e-04 -7.25e-03 -3.92e-03 -5.20e-03 -2.27e-03 -1.03e-02  
## 2363 1.18e-02 6.31e-03 -5.76e-03 -2.55e-03 2.13e-02 -6.06e-03 1.57e-02  
## 2364 9.68e-06 -3.32e-04 -1.26e-05 -1.93e-04 2.47e-05 -1.17e-04 7.44e-05  
## 2365 1.05e-04 -2.11e-04 6.25e-04 -1.85e-04 -9.70e-05 -1.80e-04 7.69e-04  
## 2366 4.73e-05 -2.35e-04 -6.55e-05 -1.71e-04 -2.23e-05 -1.07e-04 -1.90e-06  
## 2367 2.27e-02 -1.09e-02 -3.90e-03 -6.51e-03 -5.15e-03 -5.64e-03 -4.60e-03  
## 2368 -4.99e-03 -4.60e-03 3.28e-03 2.79e-03 2.15e-03 2.00e-03 4.04e-03  
## 2369 1.66e-04 -2.60e-04 -1.85e-04 -2.19e-04 -1.34e-04 1.89e-04 -1.01e-04  
## 2370 1.20e-04 -6.28e-03 -1.88e-03 -2.25e-03 -2.00e-03 -2.16e-03 -2.66e-03  
## 2371 -6.25e-04 -2.85e-04 -4.34e-05 -2.01e-04 -4.57e-06 -1.50e-04 8.44e-06  
## 2372 -6.72e-03 2.18e-02 -2.02e-02 9.79e-03 9.05e-03 1.37e-02 -2.31e-02  
## 2373 -2.75e-03 3.56e-03 -3.86e-03 -4.35e-03 1.70e-03 3.02e-03 7.18e-04  
## 2374 3.09e-02 -5.42e-03 -2.21e-02 -1.61e-02 -1.56e-02 -9.99e-03 -2.22e-02  
## 2375 -1.05e-02 9.01e-03 2.31e-02 -6.90e-03 1.90e-02 -8.26e-03 1.21e-02  
## 2376 3.07e-03 -5.74e-03 -6.14e-03 8.57e-03 1.32e-02 -1.42e-02 -4.07e-03  
## 2377 -4.93e-04 -3.04e-03 -7.79e-04 -4.35e-04 -3.61e-04 3.54e-05 -8.56e-04  
## 2378 6.83e-04 -3.00e-03 -4.55e-03 -3.82e-03 3.63e-03 -4.41e-03 2.10e-03  
## 2379 4.96e-04 9.34e-03 1.10e-02 1.05e-02 7.83e-03 7.63e-03 8.14e-03  
## 2380 5.60e-03 1.32e-03 1.90e-02 9.27e-03 -1.97e-02 6.52e-03 2.85e-02  
## 2381 4.51e-03 5.02e-03 -1.76e-02 1.19e-02 7.34e-03 9.66e-03 6.36e-03  
## 2382 -4.43e-03 9.52e-03 -6.13e-03 6.10e-03 2.97e-03 3.82e-03 1.77e-03  
## 2383 2.92e-02 -2.18e-02 -4.62e-02 1.68e-03 -3.60e-02 1.04e-02 -1.99e-02  
## 2384 -6.96e-03 3.08e-02 6.67e-03 8.92e-03 8.25e-03 1.11e-02 1.31e-02  
## 2385 -2.84e-03 -3.31e-03 -5.24e-03 2.28e-03 1.80e-03 2.40e-03 2.66e-03  
## 2386 -5.33e-04 -2.59e-03 -3.99e-04 1.05e-04 -1.77e-04 1.44e-04 -4.50e-04  
## 2387 2.88e-02 3.28e-02 6.63e-03 6.14e-03 6.63e-03 8.75e-03 -3.60e-02  
## 2388 1.92e-02 -6.32e-03 1.45e-02 5.71e-03 -3.27e-02 9.42e-03 -2.49e-02  
## 2389 -1.54e-02 1.24e-02 -2.16e-02 3.38e-02 2.01e-02 -2.38e-02 8.28e-03  
## 2390 1.06e-03 2.75e-03 -3.62e-03 7.95e-03 7.58e-03 6.30e-03 8.19e-03  
## 2391 1.10e-02 3.88e-03 1.87e-02 1.11e-02 -2.34e-02 1.28e-02 -1.83e-02  
## 2392 6.86e-03 -6.50e-03 -1.36e-02 -1.82e-02 1.56e-02 1.12e-02 1.88e-02  
## 2393 1.00e-02 2.88e-03 -3.38e-03 -1.24e-04 -7.99e-03 -4.24e-03 9.57e-03  
## 2394 4.42e-03 5.22e-03 -2.09e-02 1.17e-02 7.72e-03 9.74e-03 8.27e-03  
## 2395 2.75e-03 2.70e-03 9.13e-03 6.29e-03 -2.34e-02 1.26e-02 -1.90e-02  
## 2396 -1.13e-02 -2.49e-02 8.99e-03 -2.24e-02 -1.94e-02 -2.23e-02 2.07e-02  
## 2397 -4.52e-03 1.07e-02 -1.69e-02 8.73e-03 3.93e-03 -2.08e-02 2.54e-03  
## 2398 -5.60e-05 -5.21e-03 -1.17e-03 -1.41e-03 -1.68e-03 -1.68e-03 -1.83e-03  
## 2399 4.40e-03 -1.63e-03 2.39e-03 3.01e-03 2.30e-03 2.53e-03 3.33e-03  
## 2400 6.31e-03 -6.02e-03 -9.65e-03 -1.48e-02 1.25e-02 1.19e-02 -1.21e-02  
## 2401 1.36e-02 6.28e-03 -6.49e-03 -2.83e-03 1.87e-02 -6.92e-03 7.81e-03  
## 2402 1.17e-02 7.35e-03 2.05e-02 -1.40e-03 -9.04e-03 -5.46e-03 9.80e-03  
## 2403 1.51e-02 3.32e-06 -8.89e-03 -6.88e-03 -7.25e-03 -5.21e-03 -1.36e-02  
## 2404 5.19e-04 4.23e-04 -7.33e-05 -2.59e-04 -1.41e-04 -2.28e-04 -8.25e-05  
## 2405 8.29e-04 -5.77e-03 -1.31e-02 8.84e-03 -9.32e-03 -1.17e-02 -7.07e-03  
## 2406 6.95e-03 6.23e-04 -1.29e-02 1.20e-02 1.08e-02 6.49e-03 1.26e-02  
## 2407 -1.09e-04 -1.05e-04 -1.42e-04 8.77e-05 6.70e-05 5.38e-05 7.38e-05  
## 2408 1.54e-03 -1.91e-03 3.61e-02 -4.29e-02 -3.12e-02 4.40e-02 -2.31e-02  
## 2409 2.44e-03 -4.62e-03 5.35e-03 -6.59e-03 -6.00e-03 -4.74e-03 1.05e-02  
## 2410 -1.56e-03 -3.46e-03 -6.02e-04 -9.30e-04 -5.82e-04 -5.85e-04 -8.90e-04  
## 2411 -7.39e-03 -4.38e-03 -1.69e-02 -6.46e-03 -1.81e-02 -5.55e-03 1.14e-02  
## 2412 1.40e-02 -2.11e-03 1.54e-02 8.93e-03 -1.99e-02 1.78e-02 -7.78e-03  
## 2413 3.50e-03 -3.47e-03 -1.43e-02 1.03e-02 7.42e-03 -1.69e-02 5.45e-03  
## 2414 1.36e-02 -8.61e-03 -2.42e-02 8.50e-03 -3.14e-02 5.49e-03 1.80e-02  
## 2415 -2.58e-03 8.02e-03 4.54e-03 8.14e-03 -9.54e-03 -7.64e-03 3.83e-03  
## 2416 4.46e-03 -1.23e-03 8.11e-03 -1.96e-02 9.51e-03 1.04e-02 -2.28e-02  
## 2417 -3.39e-03 3.12e-03 7.76e-03 5.67e-03 -1.06e-02 5.14e-03 9.49e-03  
## 2418 -2.43e-02 5.82e-04 1.27e-02 6.32e-03 9.64e-03 3.80e-03 1.88e-02  
## 2419 -8.01e-04 -2.61e-03 -4.56e-04 -1.92e-04 -2.96e-04 1.04e-05 -6.94e-04  
## 2420 -6.60e-03 1.57e-02 1.42e-02 2.92e-02 9.53e-03 -5.47e-02 1.67e-03  
## 2421 -1.56e-03 -6.32e-03 -1.43e-03 -3.05e-03 -2.46e-03 -3.05e-03 -2.45e-03  
## 2422 1.92e-03 -9.75e-06 -1.86e-02 9.34e-03 -2.17e-02 8.63e-03 7.86e-03  
## 2423 -5.69e-03 -1.19e-02 -1.15e-02 -1.34e-02 -1.66e-02 -1.46e-02 -2.08e-02  
## 2424 -1.23e-02 3.43e-03 -1.92e-02 -8.93e-03 2.18e-02 -1.31e-02 9.56e-03  
## 2425 -9.87e-03 -3.65e-03 -4.00e-03 -6.89e-03 -6.29e-03 5.88e-03 6.66e-03  
## 2426 -3.41e-03 7.41e-03 4.52e-03 -5.12e-03 -6.76e-03 8.02e-03 3.63e-03  
## 2427 -4.34e-03 -1.47e-02 -1.23e-02 -9.91e-03 -9.17e-03 -7.86e-03 -8.08e-03  
## 2428 5.63e-03 -2.27e-03 -3.91e-04 -1.04e-03 -5.98e-04 -2.01e-03 -1.36e-03  
## 2429 3.88e-03 -8.34e-03 6.79e-03 -1.21e-02 -1.07e-02 -1.02e-02 1.28e-02  
## 2430 -2.21e-04 -5.39e-03 -1.17e-03 -1.22e-03 -1.64e-03 -1.90e-03 -1.83e-03  
## 2431 -6.32e-03 2.06e-02 7.68e-03 8.13e-03 -2.28e-02 1.04e-02 -2.35e-02  
## 2432 -2.05e-02 -7.26e-03 1.45e-02 -2.70e-02 9.11e-03 6.27e-03 1.09e-02  
## 2433 -2.70e-03 5.12e-03 -1.50e-02 -1.35e-02 -1.73e-02 8.79e-03 1.67e-03  
## 2434 -1.84e-02 2.41e-02 -6.44e-03 3.24e-02 -1.23e-02 2.85e-02 1.49e-02  
## 2435 -5.20e-04 -1.69e-03 -2.50e-04 -3.67e-05 -8.48e-05 -2.39e-05 -3.72e-04  
## 2436 -1.40e-03 -4.22e-03 -6.84e-04 -1.67e-03 -1.55e-03 -2.17e-03 -1.49e-03  
## 2437 -2.56e-02 2.50e-04 1.29e-02 7.08e-03 1.60e-02 6.65e-03 -3.39e-02  
## 2438 -9.93e-03 9.71e-05 -4.43e-03 1.34e-04 -4.97e-03 -5.45e-04 1.47e-02  
## 2439 1.07e-05 -3.98e-05 -2.90e-05 -1.02e-04 -1.24e-05 3.73e-04 6.33e-06  
## 2440 -9.37e-03 2.71e-03 1.95e-02 -3.38e-03 -1.42e-02 -4.92e-03 1.22e-02  
## 2441 -1.50e-02 -5.25e-03 1.27e-02 -1.65e-02 9.22e-03 8.52e-03 1.12e-02  
## 2442 -1.40e-02 5.52e-03 2.26e-02 -4.27e-03 -9.35e-03 -5.64e-03 2.11e-02  
## 2443 -1.98e-02 -6.60e-03 1.21e-02 8.56e-03 -3.56e-02 9.27e-03 2.11e-02  
## 2444 -1.04e-02 7.77e-03 1.85e-02 5.81e-04 1.62e-02 -2.64e-03 8.86e-03  
## 2445 -6.40e-03 2.00e-02 6.86e-03 7.54e-03 -2.25e-02 9.65e-03 -2.38e-02  
## 2446 1.46e-05 -1.73e-04 6.52e-04 -1.62e-04 5.25e-06 -1.13e-04 7.08e-05  
## 2447 -1.69e-02 1.70e-02 2.68e-02 3.34e-02 -2.85e-02 -2.36e-02 1.36e-02  
## 2448 -1.23e-02 -2.12e-03 -9.18e-03 -3.77e-03 -6.18e-03 -1.11e-03 -1.08e-02  
## 2449 2.56e-02 2.69e-03 1.30e-02 4.95e-03 8.42e-03 9.53e-04 1.86e-02  
## 2450 -2.26e-03 7.18e-04 -9.55e-05 -1.61e-04 -9.80e-05 -4.61e-05 1.80e-04  
## 2451 1.42e-02 1.92e-02 2.68e-02 -7.33e-03 -1.14e-02 3.13e-02 -2.33e-02  
## 2452 1.90e-04 -5.08e-05 3.09e-07 1.68e-05 1.06e-05 1.23e-05 9.87e-07  
## 2453 -1.92e-02 3.46e-04 -7.15e-03 1.02e-02 -8.98e-03 1.02e-02 -8.25e-03  
## 2454 3.47e-03 -2.25e-03 1.59e-02 -1.63e-02 -6.17e-03 1.66e-02 -2.76e-03  
## 2455 -7.30e-04 -8.13e-03 -2.14e-03 -3.82e-03 -2.89e-03 -3.12e-03 -3.01e-03  
## 2456 8.06e-04 6.50e-04 -8.06e-05 -3.70e-04 -1.75e-04 -3.06e-04 -6.55e-05  
## 2457 1.55e-03 1.64e-03 3.21e-05 1.62e-04 2.53e-04 5.17e-04 6.67e-04  
## 2458 -1.78e-03 -9.81e-04 -1.87e-02 -1.73e-02 5.56e-03 -1.63e-02 6.94e-03  
## 2459 2.30e-02 -3.25e-03 1.09e-02 4.63e-03 1.58e-02 5.89e-03 3.34e-02  
## 2460 -1.28e-02 2.31e-04 -6.32e-03 -3.92e-03 -4.61e-03 -3.07e-03 -1.05e-02  
## 2461 -4.97e-03 -9.36e-03 -1.03e-02 -9.33e-03 -1.39e-02 -1.26e-02 -1.91e-02  
## 2462 1.83e-03 1.27e-03 -2.40e-04 -6.43e-04 -3.77e-04 -4.25e-04 -1.60e-04  
## 2463 5.01e-03 -7.57e-04 1.51e-02 1.17e-02 1.76e-02 -1.46e-02 -2.58e-03  
## 2464 -5.46e-03 -1.49e-03 3.13e-02 -5.12e-03 -1.47e-02 -1.11e-02 2.30e-02  
## 2465 -8.56e-04 -1.88e-03 -2.68e-04 -1.50e-04 -2.51e-04 -1.45e-04 -5.46e-04  
## 2466 3.65e-04 -1.38e-04 1.31e-05 -1.18e-05 6.71e-06 -1.31e-05 -1.52e-05  
## 2467 -7.92e-03 1.59e-04 2.05e-02 -1.43e-02 -2.82e-02 -1.46e-02 1.43e-02  
## 2468 -5.58e-03 -4.50e-03 4.16e-03 2.57e-03 5.21e-03 3.65e-03 -4.78e-03  
## 2469 -4.02e-04 -5.19e-03 -1.07e-03 -1.16e-03 -1.57e-03 -1.90e-03 -1.75e-03  
## 2470 7.71e-03 -6.23e-03 -1.58e-02 9.34e-03 -1.61e-02 1.22e-02 -7.20e-03  
## 2471 -1.67e-03 -1.17e-03 -5.44e-04 -5.73e-04 -4.26e-04 -4.93e-04 2.33e-03  
## 2472 4.81e-03 -2.91e-03 2.61e-03 2.64e-03 1.84e-03 1.49e-03 2.76e-03  
## 2473 -2.00e-02 -1.93e-02 1.03e-02 -4.49e-02 1.38e-02 1.17e-02 2.89e-02  
## 2474 -4.84e-03 2.50e-02 6.85e-03 1.04e-02 5.20e-03 8.69e-03 2.87e-03  
## 2475 -1.09e-03 -9.64e-04 8.99e-04 7.44e-04 -1.47e-03 7.43e-04 -1.38e-03  
## 2476 -2.99e-03 -9.58e-03 -2.78e-02 -1.15e-02 -2.84e-02 -9.59e-03 1.38e-02  
## 2477 7.48e-04 -2.54e-04 -2.07e-05 -4.74e-05 4.14e-05 -1.16e-04 -1.20e-04  
## 2478 -6.63e-03 2.88e-02 7.79e-03 1.04e-02 5.09e-03 8.84e-03 3.84e-03  
## 2479 -1.24e-02 2.28e-02 2.15e-02 3.94e-02 2.95e-02 -1.43e-02 2.75e-02  
## 2480 -6.71e-04 -4.83e-03 -9.57e-04 -1.19e-03 -1.36e-03 -1.89e-03 -1.54e-03  
## 2481 -1.50e-02 3.24e-03 -9.95e-03 -6.22e-03 2.68e-02 -5.58e-03 -1.57e-02  
## 2482 1.14e-02 -4.20e-03 1.60e-02 1.51e-02 1.83e-02 -2.40e-02 2.96e-02  
## 2483 -1.65e-03 8.15e-04 -4.94e-03 -4.30e-03 2.13e-03 -5.20e-03 4.02e-04  
## 2484 1.75e-02 -3.11e-02 -2.32e-02 -2.79e-02 4.88e-02 4.69e-02 -1.52e-02  
## 2485 -2.66e-03 -1.50e-03 2.01e-03 2.12e-03 2.64e-03 2.48e-03 -3.33e-03  
## 2486 6.50e-03 6.96e-04 1.44e-02 1.47e-02 1.98e-02 -1.01e-02 -6.22e-04  
## 2487 -1.21e-03 -2.48e-03 -3.62e-04 -7.12e-04 -6.99e-04 -1.34e-03 -1.11e-03  
## 2488 -6.94e-03 2.01e-02 -1.32e-02 4.04e-02 -2.24e-02 3.56e-02 2.80e-02  
## 2489 2.56e-02 -1.16e-02 -4.29e-02 4.92e-03 1.41e-02 6.08e-03 3.31e-02  
## 2490 -1.41e-02 -6.25e-03 -2.18e-02 -1.69e-02 -1.65e-02 -1.01e-02 -2.05e-02  
## 2491 -1.54e-03 -2.47e-03 -2.98e-04 -6.49e-04 -4.58e-04 -6.14e-04 -6.29e-04  
## 2492 -4.07e-04 -8.45e-04 -1.28e-04 2.06e-04 2.38e-04 5.65e-04 -3.92e-05  
## 2493 -4.15e-04 -6.07e-03 -1.69e-03 -1.91e-03 -1.81e-03 -2.42e-03 -2.51e-03  
## 2494 -4.27e-03 7.44e-03 -1.07e-02 7.03e-03 3.68e-03 -1.31e-02 2.13e-03  
## 2495 -1.52e-03 2.03e-03 -2.38e-03 -2.24e-03 -2.63e-03 3.12e-03 -3.50e-03  
## 2496 -2.27e-04 2.40e-04 2.94e-04 -2.00e-04 3.55e-04 -1.99e-04 -2.42e-04  
## 2497 3.22e-03 2.07e-03 -3.93e-04 -8.89e-04 -4.87e-04 -3.69e-04 -5.71e-05  
## 2498 -3.19e-04 1.63e-04 -7.24e-06 2.51e-05 2.71e-05 7.39e-05 6.65e-05  
## 2499 2.31e-04 3.47e-04 1.03e-05 -1.23e-06 1.80e-05 5.36e-05 7.89e-05  
## 2500 1.51e-02 1.30e-02 -1.00e-02 3.16e-02 -7.67e-03 -8.87e-03 -1.29e-02  
## 2501 -1.08e-03 -2.00e-03 -1.47e-04 -3.38e-04 -3.69e-04 -3.47e-04 -3.87e-04  
## 2502 -7.54e-04 2.49e-04 -1.74e-05 2.35e-05 -3.92e-05 1.47e-04 1.44e-04  
## 2503 -2.19e-04 8.09e-05 -3.73e-06 1.41e-05 -1.28e-06 1.53e-05 1.09e-05  
## 2504 9.60e-04 -1.74e-03 -1.81e-03 7.76e-03 -9.12e-04 -3.02e-03 8.54e-04  
## 2505 -6.01e-04 2.52e-04 -2.94e-05 2.12e-05 -1.37e-05 3.15e-05 3.81e-05  
## 2506 -1.45e-02 -2.24e-04 -5.89e-03 -3.38e-03 -4.34e-03 -2.75e-03 -1.03e-02  
## 2507 -1.84e-02 -8.23e-03 1.24e-02 -1.94e-02 -1.32e-02 1.28e-02 2.13e-02  
## 2508 -3.17e-03 2.66e-03 4.30e-03 -7.24e-03 -7.41e-03 -6.29e-03 6.21e-03  
## 2509 1.31e-03 1.03e-03 -1.23e-04 -5.20e-04 -2.97e-04 -4.28e-04 -7.95e-05  
## 2510 -1.10e-02 2.98e-03 2.11e-02 -4.07e-03 -1.01e-02 -2.92e-03 -1.94e-02  
## 2511 5.66e-04 -2.36e-03 -6.81e-04 -1.64e-03 -3.42e-04 -9.20e-04 3.06e-05  
## 2512 -7.77e-03 1.67e-06 -5.49e-03 -2.05e-04 -8.01e-03 -1.83e-03 8.12e-03  
## 2513 1.42e-02 3.45e-04 -7.21e-03 -3.49e-03 -5.66e-03 -2.26e-03 -1.02e-02  
## 2514 1.72e-02 -9.06e-03 -3.12e-02 4.24e-03 1.92e-02 9.72e-03 -1.77e-02  
## 2515 2.92e-02 -1.20e-02 9.29e-03 1.58e-03 -4.42e-02 7.03e-03 -3.19e-02  
## 2516 -8.43e-04 5.60e-04 -1.48e-03 -1.02e-03 -9.39e-04 -6.10e-04 -1.07e-03  
## 2517 -8.03e-03 -4.42e-03 -1.54e-02 -6.74e-03 -1.50e-02 -3.59e-03 -2.44e-02  
## 2518 6.53e-03 8.31e-03 6.06e-03 6.35e-03 -5.68e-03 -6.97e-03 -4.86e-03  
## 2519 1.02e-03 8.97e-04 -1.04e-04 -4.47e-04 -2.54e-04 -4.02e-04 -4.79e-05  
## 2520 3.73e-03 2.52e-03 -6.50e-04 -1.12e-03 -5.78e-04 -8.05e-04 7.07e-05  
## 2521 -1.58e-04 5.58e-04 2.10e-04 4.66e-04 -1.62e-03 5.56e-04 -1.81e-03  
## 2522 -8.45e-04 2.80e-02 8.51e-03 1.01e-02 8.91e-03 9.54e-03 1.18e-02  
## 2523 -1.30e-02 1.48e-04 -6.19e-03 -2.87e-03 -7.53e-03 -3.74e-03 -1.72e-02  
## 2524 1.58e-02 1.63e-03 -9.01e-03 -4.60e-03 -9.71e-03 -6.75e-03 1.95e-02  
## 2525 2.83e-02 -4.39e-02 -2.82e-02 4.16e-02 4.04e-02 -3.73e-02 -2.86e-02  
## 2526 -2.03e-02 -2.68e-02 1.04e-02 5.93e-03 -2.99e-02 -4.09e-02 -1.27e-02  
## 2527 -9.27e-05 3.61e-05 -1.25e-06 5.29e-06 9.24e-07 6.80e-06 6.77e-06  
## 2528 -2.22e-02 -7.81e-03 1.67e-02 1.17e-02 -9.99e-03 -1.91e-02 -3.33e-03  
## 2529 -1.13e-03 1.05e-03 2.74e-03 -2.01e-03 3.61e-03 3.53e-03 -1.61e-03  
## 2530 4.03e-04 -2.65e-03 -6.58e-04 -1.72e-03 -1.02e-03 -1.96e-03 4.62e-03  
## 2531 -8.51e-04 -1.00e-03 7.19e-04 9.64e-04 5.52e-04 7.44e-04 9.55e-04  
## 2532 -5.75e-02 2.47e-02 6.23e-03 6.74e-03 4.08e-03 5.15e-03 9.62e-03  
## 2533 -4.28e-04 2.10e-03 3.76e-04 1.16e-03 -7.55e-05 6.77e-04 -5.05e-06  
## 2534 -7.27e-04 3.53e-03 8.14e-03 9.94e-03 1.02e-02 -7.60e-03 -8.53e-03  
## 2535 -2.50e-03 8.43e-04 -2.37e-04 -3.99e-04 -2.40e-04 -1.42e-04 -1.58e-05  
## 2536 9.83e-05 -3.75e-04 -1.00e-04 -2.80e-04 -5.90e-05 -1.64e-04 -7.59e-06  
## 2537 -9.79e-04 4.60e-04 2.44e-03 -1.84e-03 -1.09e-03 3.09e-03 -1.08e-03  
## 2538 -6.82e-03 1.28e-02 7.98e-03 9.19e-03 1.03e-02 -9.66e-03 -7.81e-03  
## 2539 -1.70e-02 1.16e-02 -7.18e-03 3.22e-02 -1.30e-02 -8.13e-03 1.55e-02  
## 2540 2.17e-02 1.39e-02 5.00e-03 -2.18e-02 -1.74e-02 1.51e-02 -1.77e-02  
## 2541 1.89e-03 -1.30e-03 -2.43e-03 1.49e-03 1.79e-03 1.58e-03 2.54e-03  
## 2542 -5.68e-03 4.61e-03 7.06e-03 -1.56e-02 9.09e-03 -1.38e-02 -1.39e-02  
## 2543 3.40e-05 1.53e-04 3.47e-04 2.46e-04 -4.40e-04 2.98e-04 -2.92e-04  
## 2544 -2.48e-02 1.15e-03 1.39e-02 7.19e-03 1.03e-02 4.21e-03 1.77e-02  
## 2545 4.21e-05 -6.56e-03 -1.91e-03 -2.30e-03 -2.02e-03 -2.22e-03 -2.64e-03  
## 2546 1.42e-03 9.79e-04 -2.05e-04 -5.90e-04 -2.84e-04 -4.06e-04 -1.19e-04  
## 2547 -6.21e-04 -5.04e-03 -1.20e-03 -1.57e-03 -1.48e-03 -1.74e-03 -2.32e-03  
## 2548 4.29e-03 -1.91e-03 -1.66e-04 -3.14e-04 -2.38e-04 -7.61e-04 -5.93e-04  
## 2549 -4.98e-04 -7.40e-03 -2.59e-03 -3.96e-03 -2.80e-03 -4.43e-03 -4.22e-03  
## 2550 -6.45e-03 2.11e-02 7.75e-03 9.17e-03 -2.28e-02 8.63e-03 5.15e-03  
## 2551 -5.22e-03 1.55e-02 6.97e-03 -2.40e-02 6.29e-03 1.10e-02 -2.88e-02  
## 2552 7.78e-03 -7.61e-03 1.42e-02 -1.94e-02 -1.80e-02 7.83e-03 1.32e-02  
## 2553 -5.07e-03 2.57e-02 7.04e-03 1.08e-02 5.42e-03 9.02e-03 3.21e-03  
## 2554 -8.07e-04 -1.44e-03 -1.96e-04 -1.47e-04 -2.35e-04 -2.28e-04 -4.48e-04  
## 2555 2.45e-05 -2.42e-04 -2.81e-05 -1.61e-04 6.67e-06 -9.89e-05 4.40e-05  
## 2556 -1.49e-02 1.87e-02 2.51e-02 3.96e-02 -2.27e-02 -1.65e-02 -3.27e-02  
## 2557 1.75e-04 -3.41e-04 -3.02e-04 -9.43e-04 -6.45e-04 2.46e-03 -7.54e-04  
## 2558 -8.47e-04 8.74e-04 2.15e-03 2.48e-03 2.94e-03 -1.32e-03 -8.75e-04  
## 2559 -1.20e-02 8.15e-03 2.21e-02 -3.77e-03 1.87e-02 -6.06e-03 1.08e-02  
## 2560 -3.47e-02 -2.30e-02 -1.17e-02 -1.54e-02 2.78e-02 2.95e-02 2.30e-02  
## 2561 9.08e-03 -2.76e-03 -5.80e-04 -1.47e-04 3.93e-05 9.64e-04 6.16e-05  
## 2562 -4.10e-03 -3.45e-03 2.72e-03 2.19e-03 1.77e-03 1.50e-03 3.20e-03  
## 2563 -7.42e-03 4.26e-03 1.80e-02 -2.15e-02 2.67e-02 -1.90e-02 2.34e-02  
## 2564 -3.36e-04 -7.07e-04 -7.69e-05 3.31e-04 2.32e-04 5.34e-04 1.12e-04  
## 2565 -2.71e-03 9.17e-04 -1.85e-04 -2.85e-04 -2.67e-04 -1.40e-05 1.92e-04  
## 2566 -1.05e-02 -1.22e-03 -1.25e-02 -4.67e-03 -1.64e-02 -6.95e-03 1.14e-02  
## 2567 -1.51e-02 -2.58e-03 1.35e-02 1.30e-02 -3.82e-03 -7.18e-03 1.79e-03  
## 2568 -2.67e-03 1.00e-03 -1.28e-04 -2.35e-04 -2.45e-04 1.47e-06 2.41e-04  
## 2569 7.48e-03 -3.60e-02 -7.51e-03 -1.02e-02 -9.15e-03 -1.26e-02 -1.51e-02  
## 2570 -7.27e-03 -3.11e-03 -1.56e-02 -4.60e-03 -1.78e-02 -5.82e-03 1.20e-02  
## 2571 -9.55e-04 -2.85e-03 -5.50e-04 -9.15e-04 -9.19e-04 -1.32e-03 -1.41e-03  
## 2572 -1.47e-02 -8.54e-03 -4.78e-03 9.72e-03 -5.16e-03 -1.09e-02 -1.08e-03  
## 2573 -9.53e-03 1.91e-03 -2.20e-03 6.10e-04 -5.44e-03 -2.18e-03 7.46e-03  
## 2574 2.55e-02 1.57e-02 -1.76e-02 -9.96e-03 2.08e-02 3.57e-02 8.80e-03  
## 2575 7.68e-04 7.54e-04 3.05e-06 -1.90e-04 -1.83e-04 -3.14e-04 7.63e-05  
## 2576 1.40e-02 -1.02e-02 1.91e-02 9.18e-03 2.20e-02 -4.06e-02 -1.21e-02  
## 2577 -5.10e-04 -5.54e-03 -1.43e-03 -1.87e-03 -1.58e-03 -1.93e-03 -2.37e-03  
## 2578 2.55e-02 -1.94e-02 -3.97e-02 3.14e-03 -3.53e-02 1.13e-02 -1.59e-02  
## 2579 2.10e-03 -2.07e-03 -2.62e-03 1.42e-03 1.58e-03 1.32e-03 2.89e-03  
## 2580 -3.63e-03 3.74e-03 -3.59e-03 -4.68e-03 2.80e-03 3.24e-03 -6.94e-03  
## 2581 -9.90e-05 -1.02e-04 1.65e-06 4.26e-05 2.93e-05 6.63e-05 -7.93e-07  
## 2582 -9.01e-04 -1.92e-03 -2.29e-04 -4.58e-04 -6.78e-04 -1.11e-03 -7.65e-04  
## 2583 -3.97e-04 -1.06e-03 -1.04e-04 -2.60e-05 -1.08e-04 -1.67e-05 -2.41e-04  
## 2584 -3.46e-03 1.30e-02 6.16e-03 9.97e-03 5.03e-03 -1.56e-02 2.86e-03  
## 2585 -1.10e-02 -5.52e-04 -5.40e-03 -1.79e-03 -3.83e-03 -3.27e-04 -8.42e-03  
## 2586 -2.19e-02 -8.89e-03 -2.35e-02 8.88e-03 -2.25e-02 7.22e-03 2.40e-02  
## 2587 3.52e-03 7.57e-04 -9.59e-03 1.07e-02 1.76e-02 9.82e-03 -6.09e-03  
## 2588 -5.36e-04 -5.34e-03 -1.33e-03 -1.74e-03 -1.81e-03 -2.07e-03 -2.35e-03  
## 2589 2.80e-03 1.95e-03 -4.70e-04 -1.03e-03 -6.05e-04 -6.94e-04 -2.42e-05  
## 2590 7.29e-04 -1.28e-03 -1.59e-03 6.03e-03 -7.18e-04 -2.63e-03 3.65e-04  
## 2591 3.89e-04 9.87e-04 8.02e-04 8.49e-04 -2.73e-04 -3.74e-04 -3.21e-04  
## 2592 -6.27e-03 1.74e-02 -1.39e-02 8.99e-03 7.26e-03 1.04e-02 -1.72e-02  
## 2593 5.10e-04 -2.38e-03 -1.63e-03 -5.07e-03 -1.84e-03 7.19e-03 -9.44e-04  
## 2594 -2.04e-02 -6.01e-03 1.30e-02 9.58e-03 -3.58e-02 9.82e-03 2.16e-02  
## 2595 6.95e-03 -4.33e-03 4.15e-03 3.42e-03 4.52e-03 2.75e-03 -8.51e-03  
## 2596 -1.92e-02 7.16e-04 1.24e-02 1.22e-02 1.10e-02 9.31e-03 1.76e-02  
## 2597 8.05e-05 -1.79e-04 -1.78e-04 1.41e-03 -2.48e-04 -5.27e-04 1.88e-03  
## 2598 1.09e-03 -3.02e-03 -1.90e-03 8.63e-03 -1.99e-03 -5.62e-03 6.54e-04  
## 2599 5.60e-06 -3.69e-05 -2.65e-06 -2.40e-05 -2.68e-07 -1.27e-05 6.13e-06  
## 2600 1.38e-02 -4.39e-03 1.52e-02 8.65e-03 -2.10e-02 1.22e-02 -1.14e-02  
## 2601 -1.06e-03 -2.46e-03 -4.12e-04 5.56e-05 2.02e-04 1.53e-03 2.48e-04  
## 2602 1.30e-02 -1.48e-02 -2.03e-02 -2.82e-02 1.71e-02 1.19e-02 -1.46e-02  
## 2603 1.33e-02 -3.72e-04 -6.96e-03 -3.45e-03 -5.27e-03 -2.07e-03 -1.03e-02  
## 2604 -1.04e-02 1.83e-02 -2.13e-02 3.65e-02 -1.72e-02 4.17e-02 -1.37e-02  
## 2605 -5.96e-03 5.26e-03 1.79e-02 -1.86e-02 1.95e-02 -2.03e-02 8.72e-03  
## 2606 1.09e-03 -1.30e-02 -2.57e-02 -2.74e-02 4.41e-02 -2.01e-02 -1.88e-02  
## 2607 1.86e-02 -7.33e-04 -1.14e-02 -8.40e-03 -9.25e-03 -6.18e-03 -1.57e-02  
## 2608 2.09e-02 1.03e-02 -2.13e-02 9.14e-03 1.06e-02 -2.15e-02 -1.81e-02  
## 2609 -1.51e-02 4.73e-03 2.15e-02 -3.82e-03 -3.95e-03 -3.15e-03 -1.00e-02  
## 2610 -7.30e-03 1.80e-02 -5.91e-02 2.65e-02 -5.38e-02 3.52e-02 -6.49e-02  
## 2611 -3.06e-03 -2.99e-03 1.99e-03 2.42e-03 1.61e-03 1.25e-03 2.72e-03  
## 2612 1.17e-02 -4.60e-02 -1.42e-02 -1.84e-02 -8.86e-03 -1.52e-02 -6.72e-03  
## 2613 1.33e-05 2.67e-02 7.68e-03 1.28e-02 1.10e-02 1.04e-02 1.01e-02  
## 2614 -5.65e-04 -1.38e-03 -1.66e-04 -1.13e-05 -1.05e-04 -1.01e-04 -2.70e-04  
## 2615 -1.30e-02 2.03e-02 2.21e-02 -7.41e-03 2.00e-02 3.38e-02 1.02e-02  
## 2616 -2.81e-03 1.89e-03 5.23e-03 -1.39e-02 -1.40e-02 -1.26e-02 -1.66e-02  
## 2617 3.00e-03 -3.17e-03 1.70e-03 -3.71e-03 1.15e-03 1.33e-03 1.45e-03  
## 2618 1.50e-02 2.92e-02 9.59e-03 1.07e-02 6.90e-03 8.06e-03 5.54e-03  
## 2619 2.28e-02 -1.32e-02 1.16e-02 -3.29e-02 8.81e-03 9.63e-03 1.38e-02  
## 2620 1.81e-02 7.21e-03 -1.67e-02 9.31e-03 -2.00e-02 -1.92e-02 5.51e-03  
## 2621 3.94e-03 -5.46e-03 -6.56e-03 -1.24e-02 8.26e-03 6.88e-03 8.80e-03  
## 2622 -8.83e-04 -9.99e-04 -3.15e-03 -3.30e-03 -3.01e-03 3.80e-03 3.73e-03  
## 2623 3.80e-03 -1.12e-03 -1.48e-04 1.61e-04 1.91e-04 4.40e-04 -1.55e-04  
## 2624 -1.17e-02 -3.05e-02 -2.71e-02 -2.98e-02 7.54e-03 -3.12e-02 1.24e-02  
## 2625 1.66e-02 3.64e-04 -1.03e-02 -9.84e-03 -9.70e-03 -7.77e-03 -1.47e-02  
## 2626 7.32e-04 -9.65e-04 4.56e-03 -1.80e-03 4.12e-03 -2.34e-03 4.00e-03  
## 2627 -8.42e-03 3.61e-03 -2.16e-03 1.66e-03 1.28e-02 -7.15e-04 6.81e-03  
## 2628 -3.29e-03 6.02e-03 -3.12e-03 4.27e-03 -3.09e-03 5.00e-03 4.40e-03  
## 2629 7.56e-04 -2.90e-03 -1.07e-03 -2.74e-03 5.06e-03 -3.18e-03 -2.78e-03  
## 2630 1.30e-02 1.21e-02 -7.25e-03 -5.21e-03 -1.02e-02 2.95e-02 1.85e-02  
## 2631 -8.45e-04 2.58e-04 -9.96e-06 -3.83e-05 -4.12e-05 -2.92e-05 3.95e-05  
## 2632 2.09e-04 -1.87e-03 -5.07e-04 -1.74e-03 -2.53e-04 -1.40e-03 -1.06e-04  
## 2633 -3.68e-06 -4.16e-04 1.17e-03 -6.09e-04 -9.27e-04 -6.85e-04 1.07e-03  
## 2634 4.67e-02 2.47e-02 2.08e-02 -3.24e-02 1.54e-02 2.92e-02 4.10e-03  
## 2635 -3.91e-02 -3.30e-02 -1.53e-02 4.20e-02 -7.43e-03 -1.58e-02 -1.38e-03  
## 2636 -1.67e-02 -2.12e-02 -2.10e-02 9.34e-03 -2.00e-02 -2.62e-02 2.50e-02  
## 2637 -2.52e-03 2.14e-03 -1.45e-02 -1.30e-02 3.77e-03 -1.54e-02 -2.58e-04  
## 2638 3.74e-02 -2.67e-04 -2.74e-02 -1.84e-02 2.54e-02 -1.63e-02 -4.18e-02  
## 2639 -1.22e-02 -3.88e-03 -1.57e-02 -8.86e-03 -1.47e-02 -7.74e-03 -2.64e-02  
## 2640 -5.89e-03 6.01e-04 3.61e-02 -1.55e-02 4.22e-02 -1.61e-02 -1.26e-02  
## 2641 -9.01e-05 -6.33e-03 -1.67e-03 -1.97e-03 -1.85e-03 -1.91e-03 -2.72e-03  
## 2642 -1.30e-03 1.42e-03 -1.06e-03 1.74e-03 -7.17e-04 -6.67e-04 -7.50e-04  
## 2643 -1.62e-04 -8.59e-03 -2.38e-03 -4.06e-03 -3.49e-03 -3.33e-03 -3.14e-03  
## 2644 1.23e-02 9.34e-03 6.40e-03 -1.35e-02 -1.58e-02 6.38e-03 2.08e-03  
## 2645 -1.50e-03 5.00e-04 -4.08e-05 -1.21e-04 -1.22e-04 -2.60e-05 9.99e-05  
## 2646 1.95e-02 -1.71e-02 1.26e-02 -3.42e-02 -3.22e-02 9.67e-03 1.56e-02  
## 2647 2.08e-02 3.86e-04 -1.23e-02 -5.39e-03 -1.63e-02 -9.20e-03 1.06e-02  
## 2648 -5.75e-03 2.85e-02 5.96e-03 1.00e-02 8.92e-03 1.08e-02 1.17e-02  
## 2649 6.99e-03 -7.57e-03 -8.75e-03 2.12e-03 -1.01e-02 2.00e-03 4.07e-03  
## 2650 1.04e-02 2.88e-03 -3.41e-03 -4.60e-04 -8.13e-03 -3.68e-03 8.15e-03  
## 2651 -1.70e-02 5.51e-03 2.36e-02 -5.32e-03 -7.99e-03 -5.57e-03 2.01e-02  
## 2652 -3.85e-03 7.96e-03 4.45e-03 6.38e-03 5.27e-03 -5.78e-03 5.36e-03  
## 2653 1.68e-02 1.57e-02 8.18e-03 -2.03e-02 7.09e-03 8.93e-03 8.24e-03  
## 2654 -3.44e-04 -6.96e-04 -5.34e-05 4.06e-04 2.32e-04 5.95e-04 1.08e-04  
## 2655 -1.17e-03 -1.27e-03 -1.70e-03 8.18e-04 5.87e-04 5.19e-04 9.10e-04  
## 2656 -4.85e-03 1.20e-02 7.09e-03 -1.50e-02 3.85e-03 8.44e-03 2.15e-03  
## 2657 2.88e-04 6.37e-04 6.77e-04 6.21e-04 8.70e-04 6.54e-04 -1.01e-03  
## 2658 -6.21e-03 -2.09e-03 -6.58e-03 -4.14e-03 2.39e-02 -1.21e-02 1.85e-02  
## 2659 2.22e-03 -5.05e-03 -4.52e-03 -9.43e-03 -4.28e-03 1.08e-02 -2.44e-03  
## 2660 1.70e-03 -2.20e-03 -3.23e-03 -6.87e-03 8.54e-03 7.56e-03 -5.96e-03  
## 2661 -1.55e-02 -1.51e-02 -1.29e-02 -1.65e-02 1.39e-02 -1.71e-02 1.80e-02  
## 2662 2.51e-03 -2.82e-03 1.58e-03 -3.48e-03 1.22e-03 1.09e-03 1.27e-03  
## 2663 -2.50e-04 1.57e-03 1.12e-04 7.57e-04 -1.60e-04 4.33e-04 -1.75e-04  
## 2664 -1.12e-03 2.87e-02 6.76e-03 7.72e-03 9.11e-03 8.50e-03 9.86e-03  
## 2665 -1.69e-02 1.83e-02 2.56e-02 3.35e-02 -1.17e-02 -9.18e-03 -2.16e-02  
## 2666 3.69e-03 -4.97e-03 1.22e-02 -7.84e-03 1.10e-02 -8.98e-03 -6.34e-03  
## 2667 2.15e-03 -3.46e-03 -3.94e-03 8.65e-03 1.23e-02 -1.03e-02 -3.04e-03  
## 2668 -6.20e-04 -1.57e-03 -2.65e-04 -2.01e-04 -1.31e-04 -9.04e-05 -5.03e-04  
## 2669 -1.36e-02 1.28e-02 -1.13e-02 3.35e-02 -1.54e-02 -9.72e-03 1.41e-02  
## 2670 -8.59e-04 -7.38e-03 -2.31e-03 -3.72e-03 -2.92e-03 -4.57e-03 -4.05e-03  
## 2671 4.17e-04 3.92e-04 -3.26e-05 -1.93e-04 -1.25e-04 -1.96e-04 -6.63e-05  
## 2672 -8.99e-04 -1.93e-03 -2.51e-04 -1.36e-04 -2.36e-04 -1.34e-04 -5.29e-04  
## 2673 1.57e-02 3.13e-04 -9.74e-03 -7.21e-03 -7.37e-03 -6.28e-03 -1.37e-02  
## 2674 -7.32e-04 -1.71e-03 -3.01e-04 -2.27e-04 -2.23e-04 -1.79e-04 -5.13e-04  
## 2675 -1.40e-02 -3.13e-04 -6.80e-03 -4.14e-03 -5.51e-03 -2.60e-03 -1.12e-02  
## 2676 9.65e-03 -5.43e-03 4.13e-03 3.04e-03 2.44e-03 1.80e-03 5.21e-03  
## 2677 -5.00e-05 -2.07e-04 5.43e-04 -3.42e-04 -4.40e-04 -3.71e-04 4.77e-04  
## 2678 -3.64e-02 -4.39e-02 -1.02e-02 -1.54e-02 -7.34e-03 -1.20e-02 -4.10e-03  
## 2679 -1.78e-02 9.89e-03 -9.49e-03 3.00e-02 -6.15e-03 -6.44e-03 -1.13e-02  
## 2680 6.24e-04 -1.39e-03 -1.87e-03 7.18e-03 1.02e-02 -5.52e-03 -9.52e-04  
## 2681 -1.06e-06 4.32e-06 3.66e-06 1.10e-05 5.99e-06 -3.74e-05 1.18e-05  
## 2682 -1.28e-02 1.78e-03 -9.91e-03 -4.16e-03 2.60e-02 -2.35e-03 -1.39e-02  
## 2683 -1.67e-02 -1.14e-02 1.30e-02 1.20e-02 -1.51e-02 -2.21e-02 2.44e-02  
## 2684 -1.60e-02 5.13e-03 2.41e-02 -4.37e-03 -5.35e-03 -2.96e-03 -1.10e-02  
## 2685 -5.04e-05 -2.20e-03 -3.14e-04 -1.82e-03 -6.49e-05 -1.48e-03 1.84e-04  
## 2686 1.53e-02 5.94e-04 -7.93e-03 -2.92e-03 -8.36e-03 -2.73e-03 1.76e-02  
## 2687 -4.98e-03 1.64e-02 6.14e-03 -1.85e-02 8.44e-03 1.41e-02 9.75e-03  
## 2688 -5.25e-03 1.24e-02 6.76e-03 -1.43e-02 3.55e-03 7.45e-03 1.18e-03  
## 2689 3.26e-03 2.37e-03 -1.63e-04 -5.06e-04 -4.28e-04 -4.50e-04 5.28e-04  
## 2690 -4.57e-04 -4.69e-03 -1.01e-03 -1.18e-03 -1.24e-03 -1.65e-03 -1.69e-03  
## 2691 1.61e-03 5.10e-04 -1.42e-03 -1.45e-03 -1.48e-03 -1.43e-03 1.69e-03  
## 2692 6.14e-04 6.33e-04 -3.03e-03 1.42e-03 2.15e-03 1.76e-03 -2.33e-03  
## 2693 -5.06e-03 -4.87e-03 3.59e-03 3.13e-03 2.23e-03 2.15e-03 4.85e-03  
## 2694 5.98e-05 -6.44e-03 -1.88e-03 -2.26e-03 -1.99e-03 -2.18e-03 -2.63e-03  
## 2695 1.21e-02 -1.35e-02 -2.01e-02 9.76e-03 1.58e-02 -3.61e-02 -2.20e-02  
## 2696 -2.88e-04 8.24e-03 8.70e-03 9.22e-03 6.50e-03 6.13e-03 4.73e-03  
## 2697 1.22e-03 1.36e-03 -1.24e-05 -2.25e-05 1.91e-04 4.09e-04 4.17e-04  
## 2698 -4.40e-03 2.47e-02 6.36e-03 1.01e-02 5.01e-03 8.68e-03 2.37e-03  
## 2699 -3.28e-02 -3.85e-02 -8.58e-03 -1.09e-02 -4.23e-03 -9.57e-03 -3.92e-03  
## 2700 -3.33e-03 6.38e-03 3.41e-03 4.21e-03 -3.26e-03 3.93e-03 4.02e-03  
## 2701 -2.77e-03 1.04e-03 -2.19e-04 -3.11e-04 -3.23e-04 -4.23e-05 1.93e-04  
## 2702 1.60e-02 5.27e-03 -9.27e-03 -9.37e-03 2.71e-02 -7.85e-03 -1.74e-02  
## 2703 1.08e-02 1.71e-02 -4.48e-03 -2.02e-03 1.91e-02 2.57e-02 8.78e-03  
## 2704 -1.06e-02 8.58e-03 -5.56e-03 2.62e-02 -8.49e-03 -3.30e-03 1.14e-02  
## 2705 -2.43e-03 2.06e-04 -2.06e-02 4.95e-03 -1.83e-02 7.23e-03 -1.65e-02  
## 2706 -9.66e-04 -2.12e-03 -3.43e-04 -1.43e-04 -1.19e-04 -1.90e-04 -5.93e-04  
## 2707 2.89e-02 -4.77e-03 -1.96e-02 -1.47e-02 -2.61e-02 -1.97e-02 7.80e-03  
## 2708 3.95e-03 4.34e-04 8.27e-03 -1.67e-02 6.99e-03 9.33e-03 3.91e-03  
## 2709 -4.89e-05 -8.97e-03 -2.63e-03 -4.40e-03 -3.44e-03 -3.43e-03 -3.11e-03  
## 2710 2.70e-03 -9.66e-04 1.15e-02 1.09e-02 -4.24e-03 -6.65e-03 1.74e-02  
## 2711 9.77e-03 -6.13e-03 -1.45e-03 -3.57e-03 -2.70e-03 -4.00e-03 -2.94e-03  
## 2712 -6.61e-03 2.24e-02 7.33e-03 1.01e-02 5.26e-03 7.01e-03 2.97e-03  
## 2713 -4.62e-03 -5.14e-03 2.55e-03 2.15e-03 1.64e-03 1.49e-03 3.75e-03  
## 2714 3.04e-04 1.36e-03 1.52e-03 1.38e-03 1.72e-03 1.31e-03 -1.47e-03  
## 2715 -1.03e-03 1.20e-03 1.17e-03 -8.54e-04 1.42e-03 -7.38e-04 -9.21e-04  
## 2716 -3.54e-02 -4.76e-02 -1.37e-02 -1.82e-02 -9.56e-03 -1.34e-02 -5.21e-03  
## 2717 1.48e-02 1.41e-04 -6.86e-03 -2.42e-03 -8.41e-03 -2.71e-03 -1.74e-02  
## 2718 1.04e-04 1.27e-04 3.16e-06 -5.99e-05 -3.74e-05 -7.50e-05 -1.26e-05  
## 2719 -9.52e-04 -4.65e-03 -1.04e-03 -1.54e-03 -1.33e-03 -1.83e-03 -1.97e-03  
## 2720 1.58e-03 1.81e-03 -1.80e-05 1.82e-05 1.60e-04 5.00e-04 5.07e-04  
## 2721 4.08e-03 1.07e-02 1.02e-02 1.21e-02 8.87e-03 1.01e-02 6.81e-03  
## 2722 -1.56e-04 -2.34e-04 7.68e-06 1.11e-04 6.73e-05 1.73e-04 4.01e-05  
## 2723 -1.06e-02 2.71e-03 -3.07e-03 6.33e-04 -7.11e-03 -2.83e-03 9.00e-03  
## 2724 1.31e-03 -5.85e-03 -1.38e-02 -1.45e-02 -9.95e-03 1.39e-02 -1.01e-02  
## 2725 -1.13e-02 1.24e-03 -4.04e-03 -1.63e-03 -5.68e-03 -2.70e-03 -1.42e-02  
## 2726 4.68e-03 -6.27e-03 -8.83e-03 1.13e-02 1.80e-02 -1.38e-02 -3.42e-03  
## 2727 2.31e-03 -5.24e-03 -3.89e-03 -8.30e-03 -4.50e-03 7.39e-03 -3.69e-03  
## 2728 -2.23e-04 -5.32e-03 -9.73e-04 -1.16e-03 -1.53e-03 -1.43e-03 -1.85e-03  
## 2729 -7.29e-03 3.23e-02 7.46e-03 8.69e-03 8.08e-03 1.06e-02 -3.36e-02  
## 2730 -5.12e-04 -5.79e-03 -1.53e-03 -2.01e-03 -1.81e-03 -2.20e-03 -2.35e-03  
## 2731 5.46e-03 6.39e-03 1.68e-02 8.81e-03 1.05e-02 3.37e-03 1.26e-02  
## 2732 2.42e-03 2.86e-03 -9.46e-03 1.07e-02 1.43e-02 5.61e-03 1.82e-02  
## 2733 1.63e-03 -1.53e-03 1.23e-02 8.98e-03 -2.83e-03 -7.45e-03 -6.94e-05  
## 2734 -1.82e-03 2.80e-03 2.08e-03 -1.68e-03 -1.35e-03 3.59e-03 -1.65e-03  
## 2735 1.00e-03 6.76e-04 1.20e-02 1.00e-02 1.37e-02 -7.68e-03 -1.11e-03  
## 2736 8.49e-03 -4.77e-02 -1.28e-02 -2.01e-02 -9.33e-03 -1.67e-02 -5.29e-03  
## 2737 1.06e-02 1.59e-03 -3.68e-03 6.02e-04 -7.35e-03 -2.07e-03 8.90e-03  
## 2738 -6.63e-03 -4.56e-03 4.93e-03 3.22e-03 6.16e-03 3.91e-03 -4.46e-03  
## 2739 -1.16e-03 -6.58e-04 -1.51e-04 -3.89e-04 -2.86e-05 -2.19e-04 8.52e-05  
## 2740 -1.58e-02 -3.15e-03 1.30e-02 1.24e-02 -4.40e-03 -8.32e-03 4.97e-04  
## 2741 -8.42e-03 5.51e-04 -3.02e-03 4.42e-04 -4.11e-03 9.49e-05 1.21e-02  
## 2742 -1.43e-04 -1.47e-04 2.05e-05 9.69e-05 5.89e-05 1.07e-04 3.84e-05  
## 2743 -3.55e-04 -7.88e-03 -2.28e-03 -3.97e-03 -3.18e-03 -3.31e-03 -3.03e-03  
## 2744 -4.70e-03 -7.77e-03 -7.84e-03 -5.02e-03 -1.43e-02 -1.12e-02 2.05e-02  
## 2745 1.12e-02 1.80e-02 7.93e-03 9.30e-03 -9.70e-03 1.15e-02 -9.15e-03  
## 2746 -3.46e-04 -5.25e-03 -1.55e-03 -1.84e-03 -1.23e-03 -1.73e-04 -1.18e-03  
## 2747 1.18e-03 1.05e-02 1.12e-02 1.11e-02 7.60e-03 7.88e-03 8.25e-03  
## 2748 -3.41e-03 2.08e-02 -3.06e-02 3.65e-02 -2.57e-02 4.90e-02 -1.54e-02  
## 2749 -1.10e-02 1.58e-03 -2.88e-03 -1.00e-03 -7.29e-03 -3.22e-03 8.37e-03  
## 2750 5.28e-03 -1.03e-02 7.30e-03 -1.39e-02 -1.56e-02 -1.48e-02 6.16e-03  
## 2751 -1.06e-03 -2.23e-03 -4.30e-04 -7.72e-04 -7.01e-04 -1.33e-03 -1.04e-03  
## 2752 4.40e-04 2.72e-02 6.98e-03 8.35e-03 8.23e-03 8.59e-03 1.03e-02  
## 2753 3.97e-04 -2.42e-04 3.35e-03 -1.43e-03 -1.64e-03 2.51e-03 2.68e-03  
## 2754 -1.86e-04 -6.30e-03 -1.74e-03 -2.18e-03 -1.92e-03 -2.20e-03 -2.51e-03  
## 2755 -5.83e-05 -6.21e-03 -1.74e-03 -2.09e-03 -1.67e-03 -1.85e-03 -2.70e-03  
## 2756 -1.37e-03 -3.48e-03 -5.86e-04 -1.05e-03 -6.58e-04 -4.38e-04 -8.27e-04  
## 2757 -2.02e-03 -1.19e-02 -1.04e-02 -7.35e-03 -1.20e-02 -7.58e-03 -1.68e-02  
## 2758 -1.50e-02 -6.42e-03 1.15e-02 1.32e-02 -6.69e-03 -1.03e-02 -1.44e-03  
## 2759 -5.77e-03 -1.77e-03 -1.73e-03 -3.15e-03 3.70e-03 3.11e-03 3.55e-03  
## 2760 5.26e-03 3.11e-04 -4.38e-03 -3.85e-03 -5.40e-03 -4.84e-03 8.25e-04  
## 2761 -2.17e-02 1.05e-03 1.43e-02 1.01e-02 1.07e-02 8.30e-03 1.83e-02  
## 2762 1.18e-03 -5.16e-03 -1.58e-03 -4.02e-03 -1.48e-03 -3.55e-03 -5.66e-04  
## 2763 6.33e-03 -6.05e-03 1.36e-02 1.07e-02 -1.36e-02 -1.75e-02 1.35e-02  
## 2764 -6.19e-04 -2.97e-03 -6.36e-04 -2.58e-04 -3.60e-04 1.01e-04 -8.20e-04  
## 2765 5.05e-03 3.18e-02 7.09e-03 9.72e-03 9.18e-03 1.13e-02 1.44e-02  
## 2766 -1.25e-02 5.25e-04 -7.48e-03 -2.27e-03 -1.12e-02 -4.59e-03 1.05e-02  
## 2767 -4.45e-03 1.04e-02 5.90e-03 -1.90e-02 -1.97e-02 9.85e-03 9.55e-03  
## 2768 -4.85e-03 -5.57e-03 3.37e-03 2.44e-03 -7.55e-03 3.08e-03 7.64e-03  
## 2769 1.12e-03 5.08e-03 8.17e-03 9.24e-03 -1.73e-02 7.20e-03 6.74e-03  
## 2770 -3.33e-03 1.37e-02 6.17e-03 1.02e-02 5.30e-03 -1.69e-02 3.29e-03  
## 2771 -3.47e-02 -3.79e-02 -3.58e-02 3.72e-02 -2.70e-02 4.87e-02 -1.29e-02  
## 2772 2.08e-02 4.42e-03 2.47e-02 -6.82e-03 -8.76e-03 -3.20e-03 -1.32e-02  
## 2773 -4.69e-04 -5.70e-03 -1.51e-03 -1.97e-03 -1.71e-03 -2.07e-03 -2.40e-03  
## 2774 -1.93e-02 -9.40e-04 -2.35e-02 1.36e-02 1.24e-02 1.43e-02 1.90e-02  
## 2775 -1.25e-02 6.92e-04 -6.35e-03 -1.97e-03 -7.01e-03 -3.58e-03 1.65e-02  
## 2776 1.39e-02 -6.59e-03 4.39e-02 3.60e-02 4.19e-02 3.09e-02 5.63e-02  
## 2777 5.05e-03 -7.17e-03 -2.62e-02 8.08e-03 1.16e-02 -3.11e-02 1.52e-02  
## 2778 5.13e-03 3.02e-03 4.07e-03 -4.25e-03 -3.15e-03 -2.64e-03 -3.29e-03  
## 2779 7.74e-03 -9.81e-03 -1.35e-02 -2.11e-02 1.30e-02 8.97e-03 1.85e-02  
## 2780 1.25e-02 1.93e-02 -6.56e-03 -4.18e-03 2.14e-02 2.79e-02 9.49e-03  
## 2781 1.20e-02 -1.06e-02 -1.67e-02 1.42e-02 -9.04e-03 -1.28e-02 -2.60e-03  
## 2782 -2.30e-03 4.70e-03 -4.70e-03 -3.79e-03 2.76e-03 5.00e-03 1.47e-03  
## 2783 -2.85e-03 9.11e-04 -3.00e-04 -4.27e-04 -2.73e-04 -6.21e-05 -9.30e-05  
## 2784 6.40e-04 -7.99e-04 -1.18e-03 -2.83e-03 3.89e-03 3.87e-03 3.95e-03  
## 2785 1.75e-02 -4.27e-03 1.50e-02 6.67e-03 -3.08e-02 9.36e-03 -2.40e-02  
## 2786 -1.40e-02 2.66e-02 1.84e-02 2.86e-02 -5.39e-02 1.98e-02 6.60e-03  
## 2787 -1.44e-03 1.97e-03 1.55e-03 -1.37e-03 -9.48e-04 2.44e-03 -1.16e-03  
## 2788 -4.63e-03 1.63e-02 -1.49e-02 8.83e-03 3.97e-03 7.01e-03 1.43e-03  
## 2789 2.50e-02 -1.55e-02 1.13e-02 -4.25e-02 8.00e-03 8.15e-03 1.48e-02  
## 2790 -3.63e-03 6.02e-03 -8.24e-03 -7.84e-03 3.01e-03 5.47e-03 5.54e-04  
## 2791 -1.17e-02 -1.74e-03 -7.13e-03 -2.94e-03 -4.55e-03 -6.64e-04 -9.35e-03  
## 2792 3.91e-03 -3.24e-03 1.53e-02 -1.67e-02 1.23e-02 8.27e-03 -1.38e-02  
## 2793 -1.02e-02 5.11e-03 -2.18e-03 9.28e-04 1.37e-02 -2.95e-03 6.40e-03  
## 2794 1.35e-02 6.45e-03 -6.15e-03 -1.67e-03 1.81e-02 -7.10e-03 8.31e-03  
## 2795 9.41e-04 1.38e-03 6.72e-05 8.16e-05 2.14e-04 2.80e-04 4.50e-04  
## 2796 -9.68e-04 -3.98e-03 -5.83e-04 -8.28e-04 -1.19e-03 -1.70e-03 -1.34e-03  
## 2797 1.24e-03 -1.93e-03 -2.73e-03 9.58e-03 1.27e-02 -7.45e-03 -6.70e-04  
## 2798 -1.15e-02 1.31e-02 -1.43e-02 -5.89e-03 1.83e-02 3.36e-02 8.85e-03  
## 2799 -4.54e-04 -5.22e-04 -3.47e-05 -1.41e-05 1.43e-05 1.55e-04 -5.50e-05  
## 2800 -3.31e-03 -2.42e-02 -2.05e-02 -2.77e-02 -2.33e-02 -2.64e-02 -1.69e-02  
## 2801 5.76e-03 -5.22e-03 4.53e-03 2.42e-03 -6.94e-03 3.72e-03 -3.47e-03  
## 2802 2.60e-03 3.50e-03 -2.64e-03 -2.97e-03 -2.03e-03 4.93e-03 -2.43e-03  
## 2803 -2.28e-04 -2.69e-03 -5.15e-04 -8.55e-05 -3.32e-04 2.46e-04 -5.06e-04  
## 2804 -2.01e-02 -2.10e-02 9.64e-03 -4.32e-02 1.93e-02 1.34e-02 -1.86e-02  
## 2805 -8.61e-04 1.44e-03 -1.44e-02 8.22e-03 -1.74e-02 5.46e-03 5.63e-03  
## 2806 9.41e-04 -1.10e-03 1.38e-02 9.70e-03 -3.54e-03 -1.02e-02 -5.44e-04  
## 2807 2.91e-04 2.71e-04 -2.81e-05 -1.62e-04 -8.51e-05 -1.61e-04 -4.00e-05  
## 2808 -5.32e-03 7.13e-03 1.39e-02 -3.74e-02 -5.40e-02 3.40e-02 5.74e-03  
## 2809 -1.75e-03 5.36e-04 -2.68e-05 -7.39e-05 -7.07e-05 -2.59e-05 1.14e-04  
## 2810 7.59e-04 1.21e-03 2.07e-03 1.70e-03 -3.91e-03 1.84e-03 3.51e-03  
## 2811 1.20e-02 1.70e-02 -7.19e-03 -4.93e-03 2.46e-02 2.95e-02 1.79e-02  
## 2812 5.27e-05 -5.30e-04 -4.64e-04 -1.98e-03 -3.25e-04 5.18e-03 1.02e-04  
## 2813 2.28e-04 2.07e-04 -6.05e-06 -8.08e-05 -7.31e-05 -9.84e-05 3.71e-06  
## 2814 2.87e-02 1.47e-02 -2.02e-02 3.68e-02 -2.60e-02 -1.78e-02 1.71e-02  
## 2815 -2.78e-03 8.50e-03 -1.58e-02 -1.42e-02 3.54e-03 8.45e-03 1.00e-04  
## 2816 1.32e-03 -6.36e-04 -1.03e-04 -1.76e-04 -1.31e-04 -2.47e-04 -3.05e-04  
## 2817 -1.12e-02 -7.32e-04 -4.76e-03 -1.53e-03 -3.74e-03 3.87e-04 -8.01e-03  
## 2818 -4.72e-02 -3.68e-03 4.04e-02 3.83e-02 4.47e-02 4.57e-02 -3.13e-02  
## 2819 -6.63e-04 -7.56e-04 -6.67e-05 -2.41e-05 9.72e-05 1.94e-04 -2.36e-05  
## 2820 1.68e-03 1.12e-03 -3.68e-05 -3.42e-04 -2.90e-04 -2.21e-04 1.07e-04  
## 2821 1.82e-02 -9.65e-03 -3.05e-03 -5.80e-03 -4.33e-03 -5.48e-03 -3.95e-03  
## 2822 -5.48e-03 2.14e-02 6.56e-03 1.07e-02 6.43e-03 9.64e-03 4.01e-03  
## 2823 -4.62e-03 2.19e-02 -2.40e-02 9.15e-03 3.74e-03 9.02e-03 2.68e-03  
## 2824 -3.28e-04 -1.99e-03 -4.97e-04 5.41e-04 6.09e-04 1.72e-03 1.49e-04  
## 2825 1.60e-02 -1.21e-03 -9.08e-03 -4.74e-03 -6.59e-03 -2.67e-03 -1.18e-02  
## 2826 3.33e-03 -4.19e-03 2.78e-03 2.00e-03 3.45e-03 -5.72e-03 -2.38e-03  
## 2827 -9.97e-03 7.51e-03 1.80e-02 -9.03e-04 1.83e-02 -1.69e-03 1.41e-02  
## 2828 6.08e-03 6.52e-03 -5.84e-03 6.10e-03 5.35e-03 -6.25e-03 -8.32e-03  
## 2829 3.42e-03 -3.75e-03 2.34e-03 2.09e-03 3.33e-03 -5.17e-03 -2.21e-03  
## 2830 -2.64e-04 -4.01e-04 -1.94e-05 2.70e-06 -3.90e-05 -7.56e-05 -7.56e-05  
## 2831 1.46e-04 1.29e-04 -1.32e-04 -1.51e-04 1.25e-04 -2.04e-04 4.72e-05  
## 2832 6.31e-03 1.81e-05 -1.26e-02 9.68e-03 1.73e-02 9.81e-03 -8.84e-03  
## 2833 1.76e-04 2.72e-02 7.17e-03 8.50e-03 8.44e-03 8.72e-03 1.06e-02  
## 2834 -2.02e-05 -1.99e-05 8.29e-08 7.48e-06 4.91e-06 1.12e-05 -4.78e-07  
## 2835 8.99e-04 9.15e-04 -5.91e-05 -4.27e-04 -2.55e-04 -4.49e-04 1.30e-05  
## 2836 -1.02e-02 -1.49e-02 -1.11e-02 -1.20e-02 7.91e-03 -1.59e-02 9.17e-03  
## 2837 3.91e-03 1.02e-02 9.89e-03 1.16e-02 8.97e-03 9.85e-03 6.89e-03  
## 2838 6.27e-03 -1.21e-02 6.60e-03 -1.72e-02 -1.59e-02 -1.64e-02 1.21e-02  
## 2839 1.20e-03 8.55e-04 -1.85e-04 -5.46e-04 -2.75e-04 -4.17e-04 -1.17e-04  
## 2840 -9.75e-03 7.82e-03 -2.53e-03 2.25e-02 -5.91e-03 -1.38e-03 1.01e-02  
## 2841 -1.66e-02 -2.67e-02 -2.95e-02 8.98e-03 -2.76e-02 -3.38e-02 2.95e-02  
## 2842 -6.26e-03 1.72e-02 6.55e-03 -2.73e-02 8.11e-03 1.18e-02 1.10e-02  
## 2843 1.23e-02 -2.45e-03 -2.03e-02 1.13e-02 1.05e-02 6.36e-03 1.29e-02  
## 2844 -3.88e-03 7.28e-03 5.21e-03 -7.18e-03 -9.33e-03 7.63e-03 3.54e-03  
## 2845 -6.62e-04 -5.62e-03 -1.32e-03 -1.76e-03 -1.81e-03 -2.12e-03 -2.31e-03  
## 2846 2.77e-03 -1.45e-03 1.86e-02 9.94e-03 1.91e-02 -2.37e-02 -6.31e-03  
## 2847 -1.80e-03 -1.47e-03 1.23e-03 1.25e-03 1.02e-03 8.18e-04 1.23e-03  
## 2848 4.62e-03 -2.24e-03 2.67e-03 2.68e-03 1.76e-03 1.43e-03 2.81e-03  
## 2849 2.67e-03 3.69e-03 1.32e-02 1.03e-02 -1.01e-02 9.04e-03 1.27e-02  
## 2850 1.66e-02 1.15e-02 6.59e-03 -1.68e-02 -1.63e-02 1.21e-02 -1.89e-02  
## 2851 6.13e-04 5.75e-04 -4.03e-05 -2.92e-04 -1.79e-04 -2.99e-04 -6.39e-05  
## 2852 2.86e-02 3.26e-02 6.99e-03 8.79e-03 3.85e-03 8.15e-03 3.02e-03  
## 2853 8.58e-04 -1.38e-03 8.94e-04 -1.56e-03 -1.25e-03 6.69e-04 -1.19e-03  
## 2854 -1.26e-03 -7.81e-03 -1.92e-03 -3.53e-03 -2.88e-03 -3.63e-03 -2.68e-03  
## 2855 -1.42e-03 -1.47e-03 1.22e-03 1.55e-03 9.32e-04 1.19e-03 1.54e-03  
## 2856 5.63e-04 3.55e-03 2.04e-02 9.35e-03 -9.66e-03 9.32e-03 -4.59e-03  
## 2857 1.21e-02 2.00e-03 -5.70e-03 -3.47e-03 -7.69e-03 -4.93e-03 -1.75e-02  
## 2858 1.70e-02 -3.46e-04 -1.00e-02 -7.37e-03 -8.22e-03 -5.51e-03 -1.45e-02  
## 2859 -4.57e-03 2.59e-02 6.71e-03 1.06e-02 5.20e-03 8.99e-03 2.90e-03  
## 2860 -3.22e-03 8.76e-03 -2.19e-02 7.23e-03 6.21e-03 -2.13e-02 -2.58e-02  
## 2861 2.78e-04 -5.91e-04 -5.65e-04 -1.17e-03 -3.01e-04 3.30e-03 -9.57e-05  
## 2862 -2.22e-02 -8.93e-03 -3.23e-02 7.94e-03 1.40e-02 9.76e-03 2.89e-02  
## 2863 -8.13e-04 -2.04e-03 -2.83e-04 -1.47e-04 -1.78e-04 -3.88e-05 -5.95e-04  
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## 2865 1.17e-02 2.52e-03 -4.90e-03 -1.36e-03 -8.89e-03 -4.90e-03 8.56e-03  
## 2866 1.60e-03 -4.01e-04 1.18e-02 1.12e-02 -9.43e-04 -5.15e-03 1.60e-03  
## 2867 -1.16e-02 -7.17e-05 -8.17e-03 -3.27e-03 -8.89e-03 -3.88e-03 1.68e-02  
## 2868 2.04e-04 -5.08e-05 -1.90e-06 1.89e-05 8.22e-06 1.59e-05 -5.77e-06  
## 2869 -1.12e-02 5.42e-04 -1.03e-02 -3.11e-03 -1.41e-02 -6.58e-03 1.15e-02  
## 2870 2.09e-03 1.41e-03 -1.05e-04 -4.77e-04 -3.58e-04 -3.02e-04 2.11e-04  
## 2871 -1.17e-02 -1.14e-03 -1.04e-02 -5.50e-03 -1.17e-02 -4.89e-03 -2.23e-02  
## 2872 -1.11e-03 -3.94e-03 -8.83e-04 -1.30e-03 -8.35e-04 -4.28e-04 -1.05e-03  
## 2873 -5.85e-03 -3.14e-03 1.66e-02 -2.14e-02 -3.42e-02 -1.93e-02 1.18e-02  
## 2874 -2.46e-02 -6.55e-03 1.50e-02 8.14e-03 -2.64e-02 1.06e-02 -2.04e-02  
## 2875 -2.25e-03 3.88e-04 1.59e-02 -1.83e-02 1.97e-02 -1.69e-02 1.17e-02  
## 2876 -2.37e-02 -2.31e-03 1.28e-02 7.54e-03 1.56e-02 9.66e-03 2.98e-02  
## 2877 -3.84e-03 4.88e-03 4.78e-03 -6.75e-03 5.62e-03 -6.69e-03 5.62e-03  
## 2878 -8.80e-03 3.03e-02 7.10e-03 6.74e-03 1.15e-02 1.19e-02 -2.45e-02  
## 2879 -2.37e-03 7.43e-04 -1.77e-04 -3.06e-04 -1.89e-04 -5.26e-05 -4.97e-05  
## 2880 -2.30e-03 -2.83e-03 1.60e-03 2.19e-03 1.43e-03 1.77e-03 2.39e-03  
## 2881 4.10e-04 -3.13e-03 -8.00e-04 -2.74e-03 -3.85e-04 -1.94e-03 9.67e-06  
## 2882 -1.02e-02 -7.88e-03 9.69e-03 -7.57e-03 -3.83e-03 -7.15e-03 -2.22e-03  
## 2883 8.11e-03 -4.21e-02 -1.09e-02 -1.43e-02 -6.69e-03 -1.36e-02 -5.58e-03  
## 2884 1.40e-02 -6.31e-04 -8.57e-03 -5.33e-03 -5.57e-03 -3.00e-03 -1.20e-02  
## 2885 -5.15e-04 -6.98e-04 -2.23e-03 -2.50e-03 -2.41e-03 3.03e-03 -3.25e-03  
## 2886 4.25e-02 -1.05e-02 -3.19e-02 -2.46e-02 -2.26e-02 -1.08e-02 -2.56e-02  
## 2887 1.21e-02 1.74e-03 -5.64e-03 -3.40e-03 -7.72e-03 -4.99e-03 -1.77e-02  
## 2888 5.11e-05 -6.77e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.23e-03 -2.63e-03  
## 2889 -4.54e-02 -2.75e-02 4.33e-02 4.22e-02 -1.01e-02 -2.02e-02 1.09e-03  
## 2890 2.92e-02 -2.48e-02 -4.06e-02 3.33e-02 4.85e-02 3.68e-02 -2.28e-02  
## 2891 -1.43e-03 -2.46e-03 -3.65e-04 -6.83e-04 -4.70e-04 -6.06e-04 -7.08e-04  
## 2892 -9.62e-04 -4.61e-03 -1.14e-03 -1.55e-03 -1.01e-03 -3.82e-04 -1.09e-03  
## 2893 1.43e-03 -5.02e-04 -3.71e-05 4.75e-05 1.01e-04 1.42e-04 -7.00e-05  
## 2894 5.42e-03 -1.30e-02 -1.76e-02 -1.58e-02 -1.07e-02 -8.22e-03 -9.19e-03  
## 2895 1.43e-03 3.14e-03 3.18e-03 2.96e-03 2.78e-03 2.48e-03 5.28e-03  
## 2896 1.46e-02 -1.15e-03 -8.46e-03 -5.45e-03 -5.86e-03 -2.32e-03 -1.20e-02  
## 2897 1.62e-04 1.41e-04 -5.00e-04 -1.69e-03 4.28e-03 4.22e-03 -1.62e-03  
## 2898 -2.05e-02 -1.29e-02 1.29e-02 -4.01e-02 8.53e-03 6.72e-03 1.34e-02  
## 2899 2.93e-03 -2.71e-03 -1.26e-02 1.05e-02 7.02e-03 -1.58e-02 5.91e-03  
## 2900 2.64e-02 -4.46e-03 -1.94e-02 -1.67e-02 -1.55e-02 -1.13e-02 -2.09e-02  
## 2901 -1.36e-02 -6.18e-03 1.16e-02 1.39e-02 -1.37e-02 -1.62e-02 1.63e-02  
## 2902 -3.92e-03 1.50e-02 7.20e-03 1.06e-02 4.75e-03 -1.90e-02 4.44e-03  
## 2903 1.86e-02 2.56e-04 -9.90e-03 -4.19e-03 -1.45e-02 -7.19e-03 1.04e-02  
## 2904 -1.37e-02 1.14e-02 -8.20e-03 3.18e-02 -1.27e-02 -6.95e-03 1.35e-02  
## 2905 -1.35e-03 2.29e-03 -1.79e-03 2.51e-03 1.51e-03 -1.96e-03 9.25e-04  
## 2906 4.59e-03 -1.44e-03 -2.92e-05 3.75e-05 5.97e-05 3.45e-04 1.05e-04  
## 2907 1.56e-02 5.83e-03 -9.49e-03 -9.68e-03 3.00e-02 -9.13e-03 -1.63e-02  
## 2908 1.33e-02 -8.37e-03 -2.66e-02 6.13e-03 -2.77e-02 5.08e-03 2.87e-02  
## 2909 -4.78e-05 -3.24e-04 -3.65e-04 -3.35e-04 -1.90e-04 -1.96e-04 -2.62e-04  
## 2910 -9.26e-03 2.27e-02 7.83e-03 8.21e-03 1.15e-02 1.23e-02 -1.34e-02  
## 2911 1.16e-03 1.91e-03 1.67e-03 1.94e-03 1.10e-03 1.30e-03 1.37e-03  
## 2912 -6.16e-04 -4.58e-03 6.15e-03 -9.48e-03 6.07e-03 -1.04e-02 6.42e-03  
## 2913 2.00e-03 1.54e-03 -1.59e-04 -1.27e-04 -9.41e-05 -1.27e-04 1.04e-05  
## 2914 4.43e-03 -4.00e-04 -3.03e-02 6.00e-03 -2.85e-02 7.81e-03 1.79e-02  
## 2915 -2.29e-03 5.07e-03 -7.75e-03 7.85e-03 1.06e-02 9.84e-03 -5.41e-03  
## 2916 7.86e-03 -5.22e-03 3.38e-03 2.58e-03 2.02e-03 1.62e-03 4.24e-03  
## 2917 -1.03e-02 1.81e-03 -4.00e-03 -1.76e-05 -7.66e-03 -3.15e-03 8.36e-03  
## 2918 2.41e-02 1.17e-02 -1.59e-02 3.63e-02 -1.97e-02 -1.32e-02 1.59e-02  
## 2919 -1.26e-02 -4.84e-03 1.11e-02 -1.09e-02 -8.50e-03 8.13e-03 -8.77e-03  
## 2920 1.82e-02 6.22e-03 2.61e-02 -8.55e-03 -8.51e-03 -7.49e-03 -1.50e-02  
## 2921 -1.39e-02 -2.85e-03 1.28e-02 1.18e-02 -3.13e-03 -7.90e-03 8.92e-04  
## 2922 1.31e-04 -1.05e-03 -1.39e-04 -6.82e-04 -1.49e-06 -4.24e-04 1.92e-04  
## 2923 -2.07e-02 -8.66e-04 1.22e-02 8.79e-03 9.77e-03 8.16e-03 1.92e-02  
## 2924 7.03e-03 2.64e-03 6.24e-04 9.85e-04 -7.64e-03 1.57e-03 -8.01e-03  
## 2925 1.73e-04 -1.44e-03 -2.12e-03 -1.79e-03 1.97e-03 -2.29e-03 1.37e-03  
## 2926 3.67e-03 -9.68e-04 -9.79e-05 2.81e-04 2.15e-04 3.66e-04 1.03e-04  
## 2927 1.26e-02 -1.05e-02 -2.45e-02 6.08e-03 -2.41e-02 9.22e-03 -1.25e-02  
## 2928 1.65e-03 -3.95e-03 -5.33e-03 1.28e-02 -2.49e-03 -9.13e-03 1.33e-03  
## 2929 -1.65e-03 6.70e-04 -5.57e-05 3.43e-05 3.86e-06 5.70e-05 6.90e-05  
## 2930 -6.35e-04 -4.21e-03 -8.09e-04 -9.50e-04 -1.15e-03 -1.51e-03 -1.63e-03  
## 2931 6.33e-03 -3.14e-03 2.97e-03 3.11e-03 1.97e-03 1.65e-03 3.43e-03  
## 2932 1.17e-02 -7.37e-03 -2.05e-02 6.91e-03 -1.96e-02 1.11e-02 -9.93e-03  
## 2933 1.78e-03 1.04e-03 -4.27e-03 9.14e-03 -5.96e-03 8.54e-03 1.51e-02  
## 2934 2.50e-03 -3.28e-03 -5.30e-03 1.05e-02 1.22e-02 -9.63e-03 1.47e-02  
## 2935 1.73e-02 2.26e-02 2.75e-02 -8.84e-03 3.13e-02 3.79e-02 -1.80e-02  
## 2936 6.82e-03 -1.39e-03 3.15e-02 -9.93e-03 3.00e-02 -1.36e-02 2.71e-02  
## 2937 2.21e-04 -4.37e-04 -5.15e-04 -1.34e-03 -7.82e-04 2.86e-03 -1.07e-03  
## 2938 4.60e-04 4.61e-04 1.42e-05 -1.17e-04 -1.05e-04 -2.00e-04 3.82e-05  
## 2939 5.78e-03 -1.74e-03 -3.65e-04 -4.74e-04 -1.58e-04 2.06e-04 -1.70e-04  
## 2940 4.18e-03 -1.43e-02 -1.65e-02 -1.87e-02 8.63e-03 -1.72e-02 -2.09e-02  
## 2941 -1.61e-02 -1.11e-02 1.17e-02 -2.72e-02 9.97e-03 1.02e-02 1.26e-02  
## 2942 4.94e-03 -2.03e-03 1.52e-02 1.20e-02 1.04e-02 -1.95e-02 1.36e-02  
## 2943 -1.71e-02 -3.91e-03 -8.81e-03 9.28e-03 -1.21e-02 8.72e-03 -9.79e-03  
## 2944 -7.67e-03 -2.26e-04 -1.71e-02 -5.78e-03 1.81e-02 -7.24e-03 9.21e-03  
## 2945 6.20e-04 -4.99e-04 -8.23e-04 6.06e-04 9.02e-04 7.01e-04 -4.42e-04  
## 2946 -3.21e-04 -8.61e-03 -2.47e-03 -4.19e-03 -3.23e-03 -3.33e-03 -3.16e-03  
## 2947 -3.98e-03 6.10e-03 5.35e-03 -1.00e-02 7.13e-03 -9.39e-03 7.53e-03  
## 2948 -1.58e-03 -5.28e-03 -8.19e-04 -1.93e-03 -1.94e-03 -2.53e-03 -1.73e-03  
## 2949 -1.33e-02 1.15e-02 2.28e-02 -4.47e-03 2.02e-02 -8.39e-03 9.32e-03  
## 2950 -1.58e-02 -1.88e-03 -9.23e-03 -8.04e-03 -7.56e-03 -5.02e-03 -1.30e-02  
## 2951 -1.09e-02 1.83e-03 -3.39e-03 4.10e-04 -7.17e-03 -2.86e-03 8.89e-03  
## 2952 -1.98e-02 -4.85e-03 -1.14e-02 8.44e-03 -1.15e-02 1.10e-02 -5.55e-03  
## 2953 2.62e-02 -7.91e-03 -3.77e-02 7.70e-03 7.83e-03 6.10e-03 1.86e-02  
## 2954 -5.67e-05 -6.24e-03 -1.67e-03 -1.96e-03 -1.85e-03 -1.90e-03 -2.73e-03  
## 2955 1.14e-02 -1.90e-02 -1.39e-02 -1.77e-02 1.21e-02 -2.01e-02 -1.56e-02  
## 2956 -1.36e-02 1.17e-02 -9.96e-03 3.23e-02 -1.37e-02 -8.46e-03 1.34e-02  
## 2957 -3.36e-03 9.40e-03 -1.56e-02 8.48e-03 3.89e-03 -1.71e-02 2.56e-03  
## 2958 -7.31e-03 -1.58e-03 -1.89e-02 -2.22e-02 -1.54e-02 3.89e-02 -1.67e-02  
## 2959 7.58e-03 -3.38e-03 -4.05e-04 -1.02e-03 -9.19e-04 -1.16e-03 -7.57e-04  
## 2960 1.08e-02 6.37e-03 5.14e-03 -8.76e-03 4.52e-03 -9.59e-03 2.37e-03  
## 2961 -1.22e-02 -4.24e-03 -3.31e-02 -2.52e-02 3.30e-02 -1.71e-02 -3.06e-02  
## 2962 7.46e-04 1.18e-02 1.18e-02 5.45e-03 1.77e-02 9.74e-03 -2.51e-02  
## 2963 8.73e-04 -2.40e-03 -1.12e-03 -1.65e-03 -3.65e-04 -1.16e-03 -1.33e-04  
## 2964 -1.81e-02 -1.75e-02 -3.66e-02 7.71e-03 -3.22e-02 1.11e-02 3.04e-02  
## 2965 1.13e-04 -2.74e-04 1.02e-03 -2.43e-04 -2.44e-06 -1.95e-04 8.40e-05  
## 2966 1.43e-02 -1.05e-03 -7.92e-03 -4.09e-03 -5.77e-03 -2.28e-03 -1.12e-02  
## 2967 -2.98e-03 -1.99e-03 2.20e-03 1.73e-03 1.48e-03 1.21e-03 2.21e-03  
## 2968 7.23e-04 1.30e-03 1.15e-03 1.33e-03 7.33e-04 9.03e-04 8.27e-04  
## 2969 5.07e-02 5.46e-03 1.55e-02 -2.78e-02 2.00e-02 -2.82e-02 6.51e-03  
## 2970 -1.72e-02 2.01e-02 2.69e-02 3.74e-02 -1.58e-02 -1.19e-02 -2.55e-02  
## 2971 -3.98e-03 1.54e-02 5.81e-03 1.06e-02 8.89e-03 -2.11e-02 1.10e-02  
## 2972 1.43e-02 -7.47e-03 -2.09e-03 -4.09e-03 -3.60e-03 -4.20e-03 -3.19e-03  
## 2973 1.19e-04 -8.61e-03 -2.66e-03 -4.35e-03 -3.45e-03 -3.39e-03 -3.23e-03  
## 2974 -1.54e-02 -1.70e-02 -1.70e-02 1.10e-02 -2.08e-02 -2.42e-02 1.64e-02  
## 2975 -3.18e-03 4.83e-03 3.42e-03 3.79e-03 -4.50e-03 -4.63e-03 2.06e-03  
## 2976 -2.65e-03 9.18e-04 -2.01e-04 -2.54e-04 -2.01e-04 -1.13e-04 1.86e-04  
## 2977 2.73e-03 2.03e-03 -2.37e-04 -5.43e-04 -5.05e-04 -5.66e-04 2.80e-04  
## 2978 -5.94e-04 -7.95e-04 -2.09e-05 -1.54e-04 -1.48e-04 -2.29e-04 -1.38e-04  
## 2979 -5.32e-03 -5.14e-03 3.31e-03 2.82e-03 2.16e-03 1.98e-03 4.29e-03  
## 2980 9.14e-03 -3.41e-03 -8.21e-04 -7.53e-04 -5.81e-04 -1.07e-03 -1.07e-03  
## 2981 8.89e-03 -1.51e-02 -1.12e-02 -1.37e-02 -7.10e-03 -8.49e-03 -2.58e-03  
## 2982 -1.26e-02 6.05e-03 1.06e-02 1.04e-02 9.25e-03 9.34e-03 1.09e-02  
## 2983 -6.44e-06 -6.69e-06 6.24e-07 4.12e-06 2.31e-06 4.49e-06 1.27e-06  
## 2984 1.59e-04 -8.42e-04 -8.15e-04 -2.57e-03 -5.13e-04 5.81e-03 1.77e-05  
## 2985 2.70e-04 -7.59e-03 -1.93e-03 -3.26e-03 -3.12e-03 -2.72e-03 -2.43e-03  
## 2986 -4.47e-03 -1.19e-02 -1.12e-02 -9.90e-03 -1.37e-02 -1.20e-02 -2.01e-02  
## 2987 -1.94e-02 -8.15e-03 1.52e-02 1.14e-02 -1.46e-02 -2.42e-02 -1.35e-02  
## 2988 3.62e-03 -2.80e-03 -1.38e-02 9.82e-03 6.85e-03 -1.64e-02 4.96e-03  
## 2989 -3.07e-04 -3.33e-03 -6.82e-04 -1.05e-05 -1.83e-04 2.59e-04 -4.05e-04  
## 2990 1.59e-04 3.13e-04 5.87e-04 5.21e-04 -7.19e-04 5.92e-04 -4.86e-04  
## 2991 3.63e-03 9.60e-03 1.00e-02 1.19e-02 9.03e-03 1.02e-02 6.45e-03  
## 2992 1.96e-02 1.26e-02 7.37e-03 -1.98e-02 -2.33e-02 8.95e-03 3.01e-03  
## 2993 -1.77e-03 -6.88e-03 1.54e-02 -1.95e-02 -2.93e-02 -1.16e-02 2.86e-02  
## 2994 -1.89e-02 -9.03e-03 -3.36e-02 8.22e-03 8.48e-03 7.98e-03 1.69e-02  
## 2995 -8.98e-04 -4.16e-03 -7.19e-04 -1.00e-03 -1.18e-03 -1.76e-03 -1.34e-03  
## 2996 -1.31e-02 9.90e-05 -7.54e-03 -2.61e-03 -7.94e-03 -4.15e-03 1.78e-02  
## 2997 -4.34e-04 -5.99e-03 -1.58e-03 -2.06e-03 -1.84e-03 -2.20e-03 -2.39e-03  
## 2998 -3.44e-03 2.63e-03 4.73e-03 -7.37e-03 -5.88e-03 -5.42e-03 -6.43e-03  
## 2999 -1.87e-02 9.37e-03 -2.09e-02 -1.67e-02 -1.46e-02 4.10e-02 -2.31e-02  
## 3000 1.23e-02 2.30e-03 -5.20e-03 -3.70e-03 -1.13e-02 -5.96e-03 1.01e-02  
## 3001 -2.66e-03 -7.84e-03 -2.06e-03 -5.14e-03 -3.91e-03 -5.99e-03 -4.01e-03  
## 3002 -1.18e-02 -2.10e-03 -8.59e-03 -3.52e-03 -5.74e-03 -9.49e-04 -1.06e-02  
## 3003 2.75e-02 1.86e-03 2.36e-02 -1.13e-02 -1.17e-02 -5.95e-03 -1.67e-02  
## 3004 -6.26e-04 -3.17e-03 -6.95e-04 -2.84e-04 -3.81e-04 1.14e-04 -8.38e-04  
## 3005 2.30e-02 -1.08e-02 -4.26e-03 -6.93e-03 -5.27e-03 -5.89e-03 -4.64e-03  
## 3006 9.62e-03 -4.54e-03 1.73e-02 -2.52e-02 1.01e-02 6.26e-03 1.34e-02  
## 3007 -4.27e-04 -9.89e-04 -5.13e-05 6.10e-04 3.83e-04 9.23e-04 2.31e-04  
## 3008 -2.01e-03 -1.71e-03 1.56e-03 1.18e-03 -2.01e-03 1.46e-03 -1.30e-03  
## 3009 1.74e-02 3.00e-02 9.61e-03 9.59e-03 1.38e-02 1.43e-02 -1.69e-02  
## 3010 7.94e-03 1.90e-03 1.89e-02 7.96e-03 -2.24e-02 6.20e-03 -1.92e-02  
## 3011 2.97e-03 -1.61e-03 1.90e-03 1.76e-03 1.37e-03 9.45e-04 1.70e-03  
## 3012 8.66e-03 -3.65e-02 -8.36e-03 -1.08e-02 -9.98e-03 -1.32e-02 -1.55e-02  
## 3013 -2.52e-03 2.63e-03 -6.93e-03 -5.47e-03 3.76e-03 -6.18e-03 2.65e-03  
## 3014 1.91e-04 -6.20e-05 1.88e-07 -1.19e-05 5.72e-06 -2.65e-05 -3.03e-05  
## 3015 1.61e-02 -3.19e-02 4.08e-02 -3.72e-02 -1.80e-02 4.89e-02 -1.11e-02  
## 3016 3.87e-04 -1.23e-03 3.19e-03 -2.90e-03 3.00e-03 -3.55e-03 2.02e-03  
## 3017 -1.43e-04 -6.20e-03 -1.75e-03 -2.17e-03 -1.93e-03 -2.19e-03 -2.53e-03  
## 3018 -3.08e-05 -6.45e-03 -1.75e-03 -2.07e-03 -2.07e-03 -2.14e-03 -2.65e-03  
## 3019 -5.26e-03 -4.94e-03 3.45e-03 2.93e-03 2.29e-03 2.13e-03 4.34e-03  
## 3020 -2.93e-04 -5.12e-03 -1.03e-03 -1.33e-03 -1.60e-03 -1.68e-03 -1.70e-03  
## 3021 -2.10e-03 6.66e-04 -1.72e-04 -2.86e-04 -1.86e-04 -6.62e-05 -7.23e-05  
## 3022 -1.19e-02 -8.95e-04 -9.10e-03 -4.06e-03 -9.25e-03 -4.27e-03 1.78e-02  
## 3023 -7.52e-04 -8.34e-03 -2.12e-03 -3.87e-03 -3.34e-03 -3.42e-03 -2.93e-03  
## 3024 -1.55e-02 3.70e-02 4.00e-02 4.06e-02 4.46e-02 4.00e-02 -1.25e-02  
## 3025 -3.64e-02 -5.93e-02 -1.85e-02 -2.45e-02 -1.42e-02 -2.20e-02 -1.14e-02  
## 3026 1.20e-02 1.89e-03 -5.93e-03 -2.48e-03 -7.34e-03 -4.96e-03 1.74e-02  
## 3027 3.85e-02 -9.37e-03 -2.70e-02 -1.68e-02 -1.79e-02 -6.96e-03 -2.27e-02  
## 3028 -3.58e-04 -7.98e-04 -1.37e-04 1.89e-04 2.17e-04 5.42e-04 -5.85e-05  
## 3029 1.97e-04 -1.36e-03 -1.12e-03 -3.22e-03 -6.92e-04 7.26e-03 -6.71e-05  
## 3030 -1.46e-02 9.55e-04 -4.95e-03 -2.80e-03 -7.28e-03 -3.86e-03 1.80e-02  
## 3031 -2.63e-02 5.16e-03 1.69e-02 1.02e-02 1.17e-02 4.34e-03 1.71e-02  
## 3032 -3.61e-04 -8.65e-04 1.54e-03 -1.45e-03 -1.25e-03 -1.37e-03 -1.73e-03  
## 3033 -6.27e-04 -1.33e-03 -1.85e-04 -1.53e-04 -1.14e-04 -1.11e-04 -4.03e-04  
## 3034 2.70e-04 -1.68e-03 -3.82e-03 -1.09e-02 1.51e-02 1.03e-02 -3.94e-03  
## 3035 -2.97e-04 -3.94e-04 -4.32e-04 -5.71e-04 -2.66e-04 -4.43e-04 -3.76e-04  
## 3036 -3.08e-03 8.65e-03 9.64e-03 -5.29e-02 3.14e-03 2.08e-02 -5.79e-03  
## 3037 -4.11e-03 1.98e-02 -2.12e-02 9.36e-03 3.42e-03 8.80e-03 2.97e-03  
## 3038 4.07e-03 -9.88e-03 3.67e-02 -2.60e-02 -1.90e-02 -1.74e-02 -1.13e-02  
## 3039 -4.67e-03 -8.43e-03 -1.22e-02 -1.01e-02 3.28e-02 -9.55e-03 -1.08e-02  
## 3040 8.43e-03 -4.21e-02 -1.15e-02 -1.50e-02 -6.65e-03 -1.38e-02 -5.84e-03  
## 3041 -6.09e-03 9.99e-03 -7.23e-03 6.69e-03 -7.50e-03 7.20e-03 7.39e-03  
## 3042 1.83e-03 -1.75e-03 1.24e-02 9.36e-03 -3.25e-03 -8.45e-03 -5.32e-04  
## 3043 3.13e-02 5.28e-03 2.77e-02 -1.71e-02 -2.23e-02 -1.36e-02 -3.22e-02  
## 3044 -4.85e-03 2.53e-02 6.94e-03 1.08e-02 5.13e-03 8.99e-03 2.63e-03  
## 3045 6.32e-04 2.84e-02 7.52e-03 9.00e-03 8.78e-03 9.23e-03 1.21e-02  
## 3046 1.49e-02 1.27e-02 -8.66e-03 -7.27e-03 -1.18e-02 2.99e-02 -2.35e-02  
## 3047 -5.17e-03 -4.97e-03 3.27e-03 2.70e-03 2.23e-03 1.95e-03 4.39e-03  
## 3048 1.21e-02 1.33e-02 7.23e-03 -1.42e-02 3.86e-03 5.68e-03 1.40e-03  
## 3049 7.47e-04 -7.75e-05 8.39e-03 7.23e-03 -8.47e-04 -3.31e-03 1.05e-03  
## 3050 6.40e-04 -1.40e-03 -1.47e-03 7.86e-03 1.02e-02 -5.26e-03 -4.22e-04  
## 3051 -1.22e-02 -1.06e-02 -3.23e-02 -2.54e-02 -2.23e-02 -1.44e-02 -2.73e-02  
## 3052 1.43e-03 1.59e-03 1.59e-03 -1.09e-03 1.66e-03 -1.01e-03 -1.88e-03  
## 3053 -5.68e-04 -1.47e-03 -2.24e-04 -5.10e-05 -1.49e-04 -1.42e-04 -3.18e-04  
## 3054 -3.70e-02 -4.82e-02 -1.71e-02 -2.32e-02 4.18e-02 -2.42e-02 -1.60e-02  
## 3055 2.35e-04 -7.19e-05 1.07e-05 3.11e-06 -4.44e-06 -4.61e-06 2.04e-06  
## 3056 4.66e-04 6.75e-03 9.08e-03 8.95e-03 -1.57e-02 1.23e-02 -1.74e-02  
## 3057 -1.03e-02 8.34e-03 1.97e-02 -8.07e-04 1.74e-02 -4.22e-03 9.22e-03  
## 3058 1.35e-03 -1.17e-03 8.51e-03 9.54e-03 -1.64e-02 -2.07e-02 6.91e-03  
## 3059 1.16e-02 -1.86e-03 1.84e-02 8.27e-03 -2.09e-02 1.24e-02 -9.17e-03  
## 3060 -2.13e-02 2.91e-03 1.51e-02 1.09e-02 1.04e-02 8.17e-03 1.66e-02  
## 3061 -5.89e-03 2.92e-02 7.74e-03 1.00e-02 4.82e-03 9.56e-03 4.18e-03  
## 3062 2.24e-02 2.46e-03 1.49e-02 9.45e-03 1.01e-02 6.62e-03 2.07e-02  
## 3063 1.43e-02 7.48e-03 2.47e-02 -4.11e-03 -9.15e-03 -6.21e-03 -1.99e-02  
## 3064 3.64e-03 -4.94e-03 -7.74e-03 -1.25e-02 1.32e-02 1.11e-02 1.66e-02  
## 3065 -8.70e-04 -8.06e-03 -2.01e-03 -3.75e-03 -3.25e-03 -3.39e-03 -2.89e-03  
## 3066 4.74e-03 -1.31e-02 -1.64e-02 -1.57e-02 9.44e-03 -1.58e-02 9.61e-03  
## 3067 2.13e-03 9.90e-04 -1.72e-03 -1.61e-03 -1.26e-03 -9.94e-04 -1.33e-03  
## 3068 -1.08e-03 -4.93e-04 8.45e-04 8.58e-04 1.04e-03 9.59e-04 -1.25e-03  
## 3069 -1.09e-03 -1.29e-03 -4.95e-03 -5.67e-03 -3.44e-03 7.93e-03 -3.71e-03  
## 3070 9.59e-03 7.30e-03 -9.13e-03 -9.94e-03 2.77e-03 5.00e-03 7.99e-04  
## 3071 1.92e-05 7.65e-04 -2.98e-03 8.38e-03 -2.89e-03 9.56e-03 -6.85e-04  
## 3072 8.98e-03 -2.35e-02 4.20e-02 3.80e-02 -1.06e-02 -2.37e-02 -1.29e-03  
## 3073 1.24e-04 -2.27e-04 -1.45e-04 1.17e-04 1.72e-04 -2.33e-04 -9.29e-05  
## 3074 -8.95e-03 2.72e-04 -3.55e-03 1.41e-04 -4.02e-03 -4.72e-04 1.27e-02  
## 3075 7.28e-03 -2.54e-02 3.72e-02 -5.94e-03 -1.14e-02 -1.34e-02 3.17e-02  
## 3076 4.51e-03 1.08e-02 9.83e-03 1.17e-02 8.83e-03 9.88e-03 6.96e-03  
## 3077 1.46e-02 7.96e-04 -7.97e-03 -5.86e-03 -1.06e-02 -7.23e-03 2.21e-02  
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## 3079 -7.16e-04 3.35e-04 1.45e-05 4.62e-05 6.22e-05 1.57e-04 1.27e-04  
## 3080 -7.85e-04 -5.06e-03 -1.35e-03 -1.73e-03 -1.16e-03 -3.42e-04 -1.06e-03  
## 3081 -1.23e-02 1.06e-02 2.02e-02 1.41e-03 1.63e-02 -3.49e-03 8.71e-03  
## 3082 1.96e-02 -2.03e-02 1.24e-02 8.39e-03 -2.76e-02 -3.73e-02 3.20e-02  
## 3083 -1.13e-02 5.40e-04 -6.60e-03 -2.52e-03 -6.91e-03 -3.80e-03 1.50e-02  
## 3084 4.35e-04 -4.45e-04 -6.00e-04 3.22e-04 2.63e-04 2.00e-04 3.25e-04  
## 3085 5.14e-03 -3.13e-03 3.22e-03 3.22e-03 2.51e-03 1.61e-03 3.76e-03  
## 3086 6.60e-03 -3.70e-02 -7.74e-03 -8.73e-03 -8.31e-03 -1.26e-02 4.02e-02  
## 3087 -7.21e-04 -3.55e-03 -8.04e-04 -2.58e-04 -9.28e-05 1.37e-04 -9.32e-04  
## 3088 -5.82e-03 -1.49e-02 -1.44e-02 -1.43e-02 -1.09e-02 -1.33e-02 -1.10e-02  
## 3089 -2.73e-03 5.47e-03 -5.76e-03 5.78e-03 3.24e-03 -5.79e-03 2.49e-03  
## 3090 -6.23e-03 1.40e-02 -9.65e-03 7.07e-03 6.06e-03 8.21e-03 -1.35e-02  
## 3091 -2.01e-02 -6.97e-03 1.08e-02 9.20e-03 -2.82e-02 1.11e-02 3.06e-02  
## 3092 -1.17e-03 -1.57e-04 -1.57e-03 2.94e-03 -9.10e-04 -1.50e-03 -8.30e-04  
## 3093 8.29e-05 -5.79e-03 -1.28e-03 -1.50e-03 -1.77e-03 -1.70e-03 -1.88e-03  
## 3094 2.65e-02 7.79e-03 2.47e-02 -1.05e-02 3.14e-02 -6.41e-03 -2.01e-02  
## 3095 -7.93e-04 -2.75e-03 -5.14e-04 -2.23e-04 -3.27e-04 8.08e-06 -7.31e-04  
## 3096 4.71e-03 -2.91e-03 -1.02e-02 9.30e-03 -1.41e-02 8.34e-03 -1.24e-02  
## 3097 3.73e-03 -2.56e-03 1.33e-02 -1.34e-02 8.30e-03 6.52e-03 8.78e-03  
## 3098 6.70e-03 -1.76e-02 -1.77e-02 3.65e-02 -1.42e-02 4.25e-02 -3.97e-03  
## 3099 2.12e-03 2.43e-02 8.08e-03 1.59e-02 1.15e-02 1.54e-02 1.25e-02  
## 3100 2.31e-02 3.05e-03 1.33e-02 4.95e-03 8.99e-03 1.06e-03 1.79e-02  
## 3101 -3.53e-03 8.30e-03 4.67e-03 6.63e-03 3.71e-03 -1.01e-02 1.70e-03  
## 3102 9.40e-04 8.32e-04 -3.64e-05 -2.79e-04 -1.95e-04 -3.77e-04 1.15e-04  
## 3103 -2.37e-05 1.96e-04 3.31e-05 1.30e-04 6.57e-06 8.27e-05 -1.18e-05  
## 3104 -1.17e-02 -1.06e-02 -6.01e-03 -9.12e-03 1.26e-02 -7.67e-03 -2.94e-03  
## 3105 1.69e-03 -6.85e-04 -1.89e-05 -1.24e-04 7.00e-06 3.74e-05 -8.63e-05  
## 3106 1.53e-04 -6.25e-03 -1.80e-03 -2.08e-03 -2.10e-03 -2.11e-03 -2.74e-03  
## 3107 -1.29e-03 -1.30e-02 1.05e-02 -4.61e-02 7.96e-03 -5.40e-02 -4.43e-03  
## 3108 -1.07e-05 9.45e-05 2.80e-05 7.68e-05 -2.80e-04 8.59e-05 -3.01e-04  
## 3109 1.09e-02 3.23e-03 1.83e-02 7.87e-03 2.21e-02 9.80e-03 -1.23e-02  
## 3110 -3.84e-03 9.28e-03 4.32e-03 7.80e-03 -1.87e-02 -2.06e-02 -1.76e-02  
## 3111 -1.72e-02 9.69e-03 2.49e-02 -6.15e-03 2.93e-02 -5.94e-03 -1.50e-02  
## 3112 -1.77e-02 -8.41e-04 -1.05e-02 1.13e-02 -1.02e-02 1.11e-02 1.97e-02  
## 3113 7.12e-04 -2.30e-03 -2.15e-03 7.84e-03 -2.51e-03 -7.26e-03 -4.30e-04  
## 3114 -2.36e-04 -4.04e-04 -5.74e-05 -5.96e-05 -5.46e-05 -7.50e-05 -1.45e-04  
## 3115 -8.25e-03 -3.59e-03 -1.37e-02 -5.08e-03 -1.21e-02 -2.89e-03 1.99e-02  
## 3116 1.43e-04 -5.49e-05 3.97e-06 -6.06e-06 9.74e-07 -7.52e-06 -7.77e-06  
## 3117 1.31e-02 -3.41e-02 -1.57e-02 -1.91e-02 -1.67e-02 4.42e-02 4.91e-02  
## 3118 7.01e-04 6.52e-04 4.19e-05 1.61e-04 1.35e-04 4.37e-04 3.07e-04  
## 3119 -2.15e-02 1.13e-03 1.45e-02 1.02e-02 1.08e-02 8.31e-03 1.72e-02  
## 3120 8.23e-03 -6.11e-03 3.14e-03 2.30e-03 -1.23e-02 1.83e-03 4.73e-03  
## 3121 4.83e-05 -5.99e-03 -1.81e-03 -2.18e-03 -1.97e-03 -2.16e-03 -2.63e-03  
## 3122 1.11e-03 -4.62e-03 -5.74e-03 -5.36e-03 3.52e-03 -7.14e-03 1.94e-03  
## 3123 -7.04e-04 -8.33e-03 3.25e-02 -1.81e-02 -1.28e-02 -1.43e-02 -1.13e-02  
## 3124 -1.96e-04 -5.19e-03 -1.05e-03 -1.30e-03 -1.44e-03 -1.46e-03 -1.80e-03  
## 3125 6.09e-04 7.59e-04 -3.09e-03 7.74e-03 -4.72e-03 7.77e-03 -4.68e-03  
## 3126 -3.64e-03 4.24e-03 4.31e-03 -7.90e-03 7.55e-03 -6.60e-03 -8.14e-03  
## 3127 -3.86e-03 -4.29e-03 3.29e-03 2.80e-03 3.18e-03 3.44e-03 -6.11e-03  
## 3128 -1.65e-02 -1.36e-02 1.17e-02 1.09e-02 1.04e-02 -3.91e-02 1.91e-02  
## 3129 -1.10e-03 -8.08e-04 -2.16e-03 2.91e-03 -2.09e-03 -2.90e-03 3.59e-03  
## 3130 -6.78e-04 -1.75e-03 -2.19e-04 -3.88e-04 -5.13e-04 -8.28e-04 -7.35e-04  
## 3131 -1.04e-02 6.93e-03 -1.79e-02 -8.21e-03 -2.05e-02 3.51e-02 1.15e-02  
## 3132 2.08e-02 -1.86e-03 -1.42e-02 -1.03e-02 -9.96e-03 -7.87e-03 -1.69e-02  
## 3133 7.00e-03 -1.03e-02 -1.08e-02 1.13e-02 -8.41e-03 -1.42e-02 -2.37e-03  
## 3134 8.75e-03 -4.21e-02 -1.16e-02 -1.51e-02 -6.86e-03 -1.41e-02 -5.46e-03  
## 3135 -9.36e-03 1.76e-05 -1.87e-02 -2.46e-02 -1.89e-02 4.10e-02 -1.34e-02  
## 3136 -1.90e-02 -3.80e-03 1.32e-02 1.19e-02 -2.69e-02 1.02e-02 1.90e-02  
## 3137 1.21e-02 2.19e-02 2.56e-02 -2.74e-03 2.29e-02 3.00e-02 -2.04e-02  
## 3138 -6.03e-04 2.81e-02 8.33e-03 9.92e-03 8.72e-03 9.43e-03 1.15e-02  
## 3139 2.17e-02 6.80e-03 -2.08e-02 7.21e-03 -2.15e-02 -2.15e-02 -2.26e-02  
## 3140 -6.27e-05 -5.81e-03 -1.74e-03 -2.13e-03 -1.93e-03 -2.16e-03 -2.58e-03  
## 3141 1.63e-02 7.48e-03 2.46e-02 -7.57e-03 -7.51e-03 -7.03e-03 -1.36e-02  
## 3142 1.29e-02 1.84e-02 2.50e-02 -4.98e-03 -1.25e-02 2.84e-02 1.06e-02  
## 3143 -2.08e-02 -2.04e-02 1.24e-02 -3.49e-02 -2.18e-02 1.49e-02 -1.30e-02  
## 3144 -1.30e-02 -2.87e-03 1.11e-02 -1.05e-02 8.00e-03 7.02e-03 7.91e-03  
## 3145 -3.39e-03 1.09e-02 5.37e-03 9.78e-03 -1.80e-02 -1.81e-02 1.11e-02  
## 3146 1.86e-03 1.05e-02 1.10e-02 1.02e-02 8.06e-03 8.60e-03 7.97e-03  
## 3147 -1.55e-02 -8.12e-03 1.25e-02 -2.17e-02 9.86e-03 9.36e-03 1.29e-02  
## 3148 -1.42e-02 -1.71e-02 1.18e-02 -1.61e-02 -1.21e-02 -1.39e-02 2.16e-02  
## 3149 1.43e-02 1.31e-02 6.35e-03 -1.35e-02 3.80e-03 6.77e-03 4.35e-04  
## 3150 -1.94e-02 -4.84e-03 -3.16e-02 9.31e-03 9.10e-03 5.07e-03 1.33e-02  
## 3151 -5.00e-04 -1.29e-03 -1.46e-04 -4.26e-05 -1.90e-04 -7.33e-05 -2.72e-04  
## 3152 -9.35e-04 -4.14e-03 -9.41e-04 -1.39e-03 -1.50e-03 -1.93e-03 -1.95e-03  
## 3153 1.12e-02 -5.02e-02 -1.47e-02 -2.14e-02 -1.09e-02 -1.73e-02 -6.12e-03  
## 3154 1.35e-02 -4.20e-02 -1.45e-02 -1.76e-02 4.51e-02 -1.57e-02 -1.03e-02  
## 3155 3.05e-02 -4.75e-03 7.64e-03 -6.19e-03 1.89e-02 1.60e-03 -2.83e-02  
## 3156 1.74e-03 3.46e-03 3.39e-03 2.23e-03 4.07e-03 3.27e-03 -5.13e-03  
## 3157 -5.57e-04 -2.72e-03 -6.48e-04 -3.70e-04 -3.17e-04 -1.67e-07 -7.85e-04  
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## 3159 9.26e-03 -8.03e-04 -2.00e-02 9.90e-03 1.62e-02 6.02e-03 2.37e-02  
## 3160 -2.38e-02 -1.17e-02 -2.28e-02 7.64e-03 -2.03e-02 1.32e-02 -9.25e-03  
## 3161 -6.92e-04 -1.75e-03 -2.32e-04 -1.91e-05 -1.58e-04 -1.44e-04 -2.91e-04  
## 3162 -3.73e-03 1.04e-02 5.11e-03 8.15e-03 4.62e-03 -1.34e-02 2.09e-03  
## 3163 3.97e-03 -2.60e-03 2.80e-03 2.18e-03 2.78e-03 1.89e-03 -5.34e-03  
## 3164 -1.18e-03 -1.66e-03 -1.55e-04 -5.03e-04 -4.86e-04 -5.09e-04 -4.92e-04  
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## 3166 1.30e-02 -1.27e-03 -2.32e-02 1.14e-02 2.21e-02 1.61e-02 -1.04e-02  
## 3167 -1.15e-03 -2.01e-03 -2.12e-04 4.16e-05 2.01e-04 1.04e-03 6.60e-05  
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## 3170 -4.55e-03 8.76e-03 9.80e-03 7.94e-03 1.29e-02 9.73e-03 -8.86e-03  
## 3171 2.16e-02 -4.39e-04 -1.09e-02 -7.23e-03 -1.43e-02 -4.73e-03 -2.24e-02  
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## 3173 1.06e-03 8.38e-04 -4.17e-03 1.88e-03 1.94e-03 1.97e-03 3.14e-03  
## 3174 4.48e-02 8.68e-03 -3.71e-02 3.76e-02 -3.32e-02 -2.40e-02 3.48e-02  
## 3175 -1.06e-03 -1.56e-03 -1.70e-04 3.21e-05 7.93e-05 7.96e-04 5.89e-05  
## 3176 -1.07e-04 -6.36e-03 -1.69e-03 -2.03e-03 -2.04e-03 -2.14e-03 -2.61e-03  
## 3177 -1.56e-03 -1.25e-03 1.23e-03 1.06e-03 1.25e-03 9.73e-04 -2.44e-03  
## 3178 -1.71e-02 1.89e-04 1.40e-02 1.31e-02 1.87e-02 -8.81e-03 -3.93e-04  
## 3179 -2.43e-03 -1.08e-02 -9.45e-03 -5.71e-03 -1.09e-02 -6.47e-03 2.82e-02  
## 3180 -6.76e-04 -1.25e-03 6.17e-04 -1.32e-03 4.59e-04 5.55e-04 5.68e-04  
## 3181 -4.64e-03 -1.73e-02 -1.43e-02 -1.49e-02 -1.20e-02 -1.04e-02 -8.69e-03  
## 3182 2.05e-03 1.48e-03 -3.09e-04 -7.95e-04 -4.40e-04 -5.63e-04 -7.05e-05  
## 3183 -1.95e-02 -7.23e-03 -1.60e-02 9.56e-03 -1.90e-02 9.94e-03 -1.45e-02  
## 3184 9.58e-03 -3.07e-02 -1.45e-02 3.92e-02 -7.82e-03 -1.93e-02 -2.46e-03  
## 3185 -7.54e-04 -4.43e-03 -8.20e-04 -1.01e-03 -1.39e-03 -1.84e-03 -1.56e-03  
## 3186 -3.26e-04 1.83e-04 9.29e-04 1.08e-03 -2.84e-04 -5.06e-04 -2.89e-04  
## 3187 2.40e-03 5.28e-03 -2.27e-02 8.04e-03 7.12e-03 6.20e-03 4.89e-03  
## 3188 5.27e-04 5.17e-04 3.58e-05 5.31e-05 4.48e-06 -6.83e-05 8.41e-05  
## 3189 -3.16e-04 -1.20e-03 -1.52e-04 7.05e-04 4.37e-04 1.17e-03 2.43e-04  
## 3190 5.77e-03 -1.37e-03 3.25e-02 -1.39e-02 2.76e-02 -1.48e-02 2.75e-02  
## 3191 -1.71e-02 -1.14e-02 -2.68e-02 1.12e-02 -2.97e-02 9.97e-03 1.73e-02  
## 3192 -3.56e-04 -3.75e-03 -8.97e-04 -3.11e-04 -3.84e-04 3.59e-04 -8.99e-04  
## 3193 1.77e-02 -4.20e-02 3.81e-02 -2.02e-02 -2.46e-02 -2.84e-02 3.11e-02  
## 3194 7.66e-03 -4.81e-03 -1.68e-02 1.05e-02 -1.27e-02 1.58e-02 -5.06e-03  
## 3195 -2.62e-03 9.42e-04 -1.87e-04 -2.52e-04 -2.28e-04 -1.69e-04 2.00e-04  
## 3196 -9.02e-03 7.47e-03 2.16e-02 -1.33e-02 2.14e-02 -1.59e-02 1.05e-02  
## 3197 5.41e-03 7.97e-03 -5.10e-03 6.59e-03 7.27e-03 -4.04e-03 -4.30e-03  
## 3198 -6.60e-03 3.00e-02 6.08e-03 8.15e-03 8.16e-03 1.07e-02 1.28e-02  
## 3199 -5.20e-03 -5.26e-03 3.57e-03 3.15e-03 2.21e-03 2.15e-03 5.02e-03  
## 3200 -7.43e-04 -1.40e-03 -8.31e-05 -2.89e-04 -2.81e-04 -2.13e-04 -2.85e-04  
## 3201 -9.18e-06 2.31e-04 4.54e-06 1.15e-04 -9.16e-06 7.35e-05 -5.71e-05  
## 3202 -2.88e-04 -6.12e-03 -1.59e-03 -1.96e-03 -1.99e-03 -2.16e-03 -2.54e-03  
## 3203 -4.87e-04 -8.09e-03 -2.15e-03 -3.72e-03 -3.08e-03 -3.04e-03 -3.20e-03  
## 3204 7.66e-03 1.19e-02 -8.89e-03 7.06e-03 -9.06e-03 7.75e-03 8.34e-03  
## 3205 -9.89e-03 1.87e-03 -2.17e-03 6.81e-04 -5.49e-03 -2.19e-03 7.80e-03  
## 3206 2.52e-03 -2.71e-03 -3.27e-03 1.56e-03 -2.98e-03 2.18e-03 3.61e-03  
## 3207 -7.44e-04 -2.56e-03 -4.71e-04 -2.29e-04 -2.50e-04 2.38e-05 -7.69e-04  
## 3208 -1.83e-02 -5.11e-03 -1.36e-02 9.99e-03 -1.84e-02 7.69e-03 1.47e-02  
## 3209 -3.62e-04 -4.73e-06 4.64e-03 -4.62e-03 -5.76e-03 5.40e-03 3.42e-03  
## 3210 4.35e-03 3.35e-03 -1.11e-02 1.08e-02 1.18e-02 8.12e-03 1.32e-02  
## 3211 8.10e-03 -2.21e-04 -1.51e-02 1.08e-02 1.10e-02 6.39e-03 1.45e-02  
## 3212 8.50e-03 -4.14e-02 -1.35e-02 -2.23e-02 4.37e-02 -1.86e-02 -1.11e-02  
## 3213 -2.47e-04 -8.75e-03 -2.36e-03 -4.08e-03 -3.48e-03 -3.34e-03 -3.08e-03  
## 3214 -5.15e-03 3.08e-04 -1.44e-03 4.17e-03 -2.49e-03 3.54e-03 4.05e-03  
## 3215 4.96e-03 -1.15e-03 -1.64e-04 4.20e-04 2.24e-04 5.67e-04 8.22e-05  
## 3216 -3.44e-03 -4.99e-03 -6.59e-03 1.95e-03 2.35e-03 2.20e-03 -6.61e-03  
## 3217 5.04e-03 1.16e-04 9.79e-03 1.11e-02 8.59e-03 -2.31e-02 7.98e-03  
## 3218 -4.86e-03 2.30e-02 6.34e-03 9.82e-03 5.18e-03 8.54e-03 2.14e-03  
## 3219 3.67e-03 4.10e-03 -1.91e-02 1.06e-02 8.17e-03 8.69e-03 5.35e-03  
## 3220 -3.23e-02 -2.06e-02 -5.98e-03 -7.16e-03 -1.23e-02 3.38e-02 2.70e-02  
## 3221 -7.56e-03 1.57e-02 7.28e-03 -2.82e-02 1.07e-02 1.30e-02 -2.31e-02  
## 3222 -3.74e-04 -6.30e-03 -1.67e-03 -2.14e-03 -1.88e-03 -2.23e-03 -2.43e-03  
## 3223 -8.09e-03 2.79e-02 8.63e-03 9.17e-03 7.85e-03 9.66e-03 -2.71e-02  
## 3224 3.87e-03 -7.20e-04 -8.53e-03 1.11e-02 -7.68e-03 1.36e-02 -1.63e-03  
## 3225 -1.08e-02 1.19e-03 -4.92e-03 -6.32e-04 -8.32e-03 -3.62e-03 9.17e-03  
## 3226 2.22e-03 1.49e-03 -2.61e-04 -7.34e-04 -3.94e-04 -4.35e-04 -9.42e-05  
## 3227 -2.39e-03 -2.02e-03 -1.54e-02 -1.45e-02 -1.28e-02 -1.23e-02 -1.32e-02  
## 3228 -1.34e-03 2.53e-03 -2.32e-03 -1.87e-03 1.44e-03 2.39e-03 6.70e-04  
## 3229 3.56e-03 7.56e-03 1.05e-02 8.73e-03 -2.95e-02 7.48e-03 9.75e-03  
## 3230 -2.85e-04 -3.86e-04 3.37e-06 2.27e-04 1.29e-04 2.86e-04 6.88e-05  
## 3231 2.00e-04 1.47e-03 1.47e-03 1.33e-03 1.82e-03 1.68e-03 -1.11e-03  
## 3232 1.87e-02 1.97e-02 -1.89e-02 9.11e-03 4.26e-03 6.88e-03 1.50e-03  
## 3233 1.51e-03 1.16e-03 -1.23e-04 -1.15e-04 -7.21e-05 -1.28e-04 -3.59e-05  
## 3234 -3.03e-05 -4.10e-05 4.19e-07 2.08e-05 1.31e-05 2.70e-05 3.16e-06  
## 3235 -4.62e-03 1.39e-02 6.92e-03 9.15e-03 4.72e-03 -1.78e-02 3.62e-03  
## 3236 -8.03e-03 1.27e-02 1.86e-02 3.23e-02 -4.85e-02 -3.84e-02 1.39e-02  
## 3237 -4.22e-04 2.81e-02 8.20e-03 9.81e-03 8.58e-03 9.34e-03 1.12e-02  
## 3238 -2.86e-04 -1.33e-03 -1.41e-04 5.92e-04 3.99e-04 1.22e-03 2.67e-04  
## 3239 2.07e-03 3.47e-03 -2.27e-02 8.60e-03 1.05e-02 9.62e-03 1.47e-02  
## 3240 2.16e-02 1.58e-02 6.45e-03 -2.22e-02 3.30e-03 8.14e-03 2.21e-04  
## 3241 2.70e-02 2.86e-02 3.02e-02 -2.62e-02 3.61e-02 4.31e-02 -2.96e-02  
## 3242 8.13e-03 -4.10e-02 -9.73e-03 -1.36e-02 -1.18e-02 -1.55e-02 4.31e-02  
## 3243 5.40e-05 -7.43e-04 -4.20e-04 4.73e-03 -9.17e-05 -1.38e-03 7.04e-04  
## 3244 -8.60e-03 -8.69e-06 -4.87e-03 -9.84e-04 -6.43e-03 -4.35e-04 -1.38e-02  
## 3245 -5.10e-03 1.57e-02 -1.87e-02 9.60e-03 -2.29e-02 8.62e-03 5.23e-03  
## 3246 -1.24e-03 -5.03e-03 -1.35e-03 -1.65e-03 -9.53e-04 -6.95e-04 -9.11e-04  
## 3247 -1.04e-02 1.67e-02 2.11e-02 3.65e-02 -2.07e-02 -1.10e-02 1.69e-02  
## 3248 1.31e-02 7.32e-03 6.67e-03 -9.63e-03 5.60e-03 -1.08e-02 4.29e-03  
## 3249 1.11e-02 -1.37e-02 1.59e-02 -2.88e-02 -1.79e-02 1.24e-02 -9.56e-03  
## 3250 -2.79e-02 -1.79e-02 -3.69e-02 2.07e-03 -3.16e-02 9.40e-03 -1.63e-02  
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## 3252 4.52e-03 -1.67e-03 3.31e-03 3.18e-03 2.73e-03 2.85e-03 4.05e-03  
## 3253 -2.33e-02 -7.53e-03 -2.90e-02 5.89e-03 1.85e-02 1.12e-02 -1.55e-02  
## 3254 4.78e-03 1.09e-02 1.06e-02 1.04e-02 8.47e-03 1.01e-02 7.90e-03  
## 3255 -1.98e-02 8.04e-04 1.31e-02 1.24e-02 1.14e-02 9.31e-03 1.68e-02  
## 3256 2.90e-02 2.01e-02 2.76e-02 -2.04e-02 -1.81e-02 4.39e-02 -2.43e-02  
## 3257 5.55e-03 -3.06e-03 2.88e-03 2.73e-03 2.28e-03 1.59e-03 3.12e-03  
## 3258 -1.59e-02 1.38e-06 -2.04e-02 -1.46e-02 2.82e-02 -1.21e-02 2.32e-02  
## 3259 -7.26e-03 -4.23e-03 -3.08e-03 6.54e-03 -5.04e-03 -6.92e-03 6.32e-03  
## 3260 -1.79e-02 -1.97e-02 1.38e-02 1.07e-02 -2.77e-02 -3.34e-02 -1.86e-02  
## 3261 2.84e-02 -3.70e-03 -2.08e-02 -1.56e-02 -1.44e-02 -9.85e-03 -2.27e-02  
## 3262 3.96e-03 2.46e-03 -6.71e-04 -1.27e-03 -6.89e-04 -6.24e-04 6.07e-05  
## 3263 -1.52e-05 -2.10e-05 -7.14e-07 9.26e-08 -2.26e-06 -4.73e-06 -4.31e-06  
## 3264 1.48e-02 1.53e-02 6.91e-03 -1.48e-02 1.07e-02 1.22e-02 -1.35e-02  
## 3265 8.20e-05 -4.12e-05 -3.61e-06 -1.06e-05 -8.59e-06 -1.93e-05 -1.88e-05  
## 3266 3.06e-02 -2.24e-02 9.69e-03 3.40e-03 2.05e-02 -5.34e-02 -1.93e-02  
## 3267 -8.44e-03 4.46e-03 1.67e-02 7.31e-04 -7.30e-03 -9.73e-04 8.85e-03  
## 3268 -1.68e-02 1.10e-02 -7.02e-03 2.85e-02 -5.16e-03 -5.28e-03 -1.02e-02  
## 3269 3.05e-02 -5.99e-03 -2.25e-02 -1.90e-02 -1.73e-02 -1.23e-02 -2.16e-02  
## 3270 -1.87e-02 -1.78e-02 -1.64e-02 9.84e-03 -1.45e-02 -2.24e-02 -6.22e-03  
## 3271 -7.53e-04 -1.29e-03 -1.88e-04 5.42e-04 4.97e-04 9.87e-04 1.32e-04  
## 3272 1.33e-02 1.38e-03 -6.54e-03 -3.98e-03 -8.47e-03 -5.46e-03 -1.88e-02  
## 3273 -5.92e-04 -2.47e-03 -4.42e-04 -4.05e-05 -2.08e-04 -3.39e-05 -3.94e-04  
## 3274 3.09e-04 6.20e-04 -2.89e-04 5.79e-04 6.07e-04 -2.80e-04 -2.93e-04  
## 3275 -1.65e-03 2.44e-03 2.68e-03 -2.28e-03 2.50e-03 -2.94e-03 1.48e-03  
## 3276 2.38e-03 -3.24e-03 2.58e-03 1.82e-03 2.92e-03 -4.21e-03 -1.63e-03  
## 3277 -1.85e-02 3.69e-03 -8.26e-03 1.21e-02 1.84e-02 1.57e-02 -1.64e-03  
## 3278 2.05e-03 2.15e-04 -5.38e-03 8.42e-03 -3.98e-03 9.51e-03 -2.28e-03  
## 3279 5.82e-04 5.78e-04 -3.99e-05 8.68e-05 1.26e-04 2.21e-04 1.22e-04  
## 3280 1.01e-02 4.51e-03 1.81e-02 9.08e-03 1.53e-02 8.41e-03 -2.07e-02  
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## 3282 -7.88e-03 -3.27e-03 -1.36e-02 -3.75e-03 -1.57e-02 -4.97e-03 1.08e-02  
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## 3285 8.88e-03 -1.59e-03 -1.48e-02 9.42e-03 1.25e-02 8.40e-03 -1.79e-02  
## 3286 5.04e-03 -3.27e-03 8.32e-03 -1.75e-02 -1.94e-02 1.09e-02 5.92e-03  
## 3287 -2.22e-03 3.12e-03 3.79e-03 -4.58e-03 2.72e-03 -6.34e-03 1.25e-03  
## 3288 5.05e-03 7.51e-04 -3.18e-02 6.26e-03 1.56e-02 1.32e-02 -2.37e-02  
## 3289 2.94e-02 2.56e-02 -3.18e-02 6.96e-03 6.33e-03 9.02e-03 1.07e-02  
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## 3291 -6.20e-03 -5.91e-03 3.72e-03 2.68e-03 4.52e-03 3.07e-03 9.17e-03  
## 3292 -6.38e-03 1.79e-02 7.18e-03 8.13e-03 -1.91e-02 7.52e-03 3.99e-03  
## 3293 3.03e-03 2.20e-03 2.55e-03 -2.21e-03 -1.65e-03 -1.48e-03 -2.18e-03  
## 3294 -1.78e-04 -6.28e-03 -1.65e-03 -2.00e-03 -2.02e-03 -2.14e-03 -2.58e-03  
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## 3296 -6.55e-04 -1.20e-03 -9.28e-05 4.06e-05 -1.44e-04 -1.60e-04 -2.27e-04  
## 3297 1.33e-02 -7.65e-04 -7.24e-03 -3.90e-03 -5.17e-03 -2.25e-03 -1.02e-02  
## 3298 -1.44e-02 7.11e-03 2.51e-02 -9.09e-03 1.98e-02 -1.74e-02 8.58e-03  
## 3299 -1.95e-02 5.86e-03 2.76e-02 -7.75e-03 -7.09e-03 -5.49e-03 -1.11e-02  
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## 3301 9.85e-03 5.65e-03 1.82e-02 8.22e-03 2.21e-02 7.71e-03 -1.44e-02  
## 3302 -1.57e-02 -1.90e-02 -2.65e-02 1.24e-02 9.63e-03 -3.48e-02 1.78e-02  
## 3303 2.70e-03 4.03e-03 -2.43e-03 3.87e-03 3.91e-03 -1.86e-03 -2.06e-03  
## 3304 8.60e-03 -1.99e-03 -6.52e-04 3.23e-04 4.50e-04 9.69e-04 -6.88e-05  
## 3305 -7.43e-04 -1.87e-03 -2.82e-04 -1.56e-04 -1.92e-04 -6.49e-05 -5.92e-04  
## 3306 1.28e-02 -1.52e-04 -6.12e-03 -3.22e-03 -7.94e-03 -3.25e-03 1.94e-02  
## 3307 -8.66e-04 -3.14e-03 -1.04e-02 -1.40e-02 6.51e-03 6.79e-03 -1.62e-02  
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## 3309 1.39e-04 -6.26e-03 -1.88e-03 -2.22e-03 -1.91e-03 -2.06e-03 -2.72e-03  
## 3310 -1.39e-02 -1.22e-03 -9.53e-03 1.18e-02 -1.16e-02 1.09e-02 1.31e-02  
## 3311 1.20e-03 -3.68e-03 -3.86e-03 7.79e-03 -3.25e-03 -9.16e-03 -1.61e-03  
## 3312 1.07e-03 -3.63e-03 -9.70e-03 -9.70e-03 -8.66e-03 8.94e-03 -1.18e-02  
## 3313 3.76e-03 -2.54e-03 2.78e-03 2.60e-03 -4.60e-03 3.18e-03 5.91e-03  
## 3314 -6.93e-03 -1.04e-02 -1.60e-02 -1.88e-02 3.79e-02 -1.72e-02 -1.46e-02  
## 3315 6.40e-03 -1.89e-02 -6.12e-03 3.87e-02 -1.19e-02 -1.59e-02 3.13e-02  
## 3316 -8.22e-03 1.61e-02 6.54e-03 -2.45e-02 7.12e-03 7.09e-03 7.05e-03  
## 3317 -8.82e-04 2.47e-04 -5.08e-05 -9.52e-05 -8.28e-05 -2.70e-05 1.48e-05  
## 3318 -9.79e-03 -3.49e-04 -4.87e-03 -9.44e-04 -5.84e-03 -8.39e-04 -1.35e-02  
## 3319 -9.01e-04 -3.38e-03 -4.44e-04 -7.77e-04 -1.17e-03 -1.43e-03 -1.24e-03  
## 3320 -1.81e-02 -6.01e-03 1.14e-02 1.15e-02 -3.38e-02 1.05e-02 2.03e-02  
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## 3325 -5.69e-03 1.45e-02 7.56e-03 1.00e-02 5.29e-03 -1.82e-02 4.18e-03  
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## 3327 8.96e-03 -4.57e-02 -1.25e-02 -1.93e-02 -9.82e-03 -1.63e-02 -6.19e-03  
## 3328 -1.64e-04 -5.12e-04 -5.49e-05 1.75e-04 1.28e-04 3.81e-04 3.61e-06  
## 3329 -1.09e-02 8.43e-03 2.07e-02 -1.03e-02 2.04e-02 -1.45e-02 9.21e-03  
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## 3331 1.31e-03 9.16e-04 -1.96e-04 -5.57e-04 -2.76e-04 -3.94e-04 -1.28e-04  
## 3332 2.35e-02 1.40e-03 1.39e-02 8.73e-03 9.67e-03 6.43e-03 2.00e-02  
## 3333 1.69e-02 1.79e-02 -1.09e-02 -9.03e-03 2.48e-02 3.17e-02 -2.91e-02  
## 3334 -5.45e-03 -4.94e-03 3.45e-03 2.78e-03 2.42e-03 2.00e-03 4.41e-03  
## 3335 -1.06e-02 -2.54e-05 -4.42e-03 4.28e-05 -4.84e-03 -6.43e-04 1.57e-02  
## 3336 -7.63e-03 1.80e-02 6.95e-03 7.22e-03 3.91e-03 3.58e-03 1.42e-03  
## 3337 -5.97e-04 -3.90e-03 -8.59e-03 -9.66e-03 -6.17e-03 1.01e-02 -6.76e-03  
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## 3339 -1.49e-02 -1.54e-03 -8.95e-03 -5.38e-03 -6.28e-03 -3.93e-03 -1.26e-02  
## 3340 7.14e-04 1.55e-03 -3.26e-03 7.93e-03 -3.48e-03 8.84e-03 -1.25e-03  
## 3341 2.88e-02 -8.09e-04 9.53e-03 1.93e-04 1.34e-02 1.00e-03 3.42e-02  
## 3342 -3.69e-04 -5.39e-04 -8.10e-06 2.63e-04 1.89e-04 3.66e-04 1.19e-04  
## 3343 -2.32e-04 2.41e-03 -3.77e-03 1.03e-02 -4.65e-03 1.13e-02 -1.44e-03  
## 3344 -1.10e-02 4.65e-03 -4.34e-03 -4.11e-04 1.58e-02 -3.87e-03 7.49e-03  
## 3345 7.80e-03 -4.28e-02 -1.08e-02 -1.42e-02 -6.51e-03 -1.36e-02 -5.14e-03  
## 3346 1.07e-02 -2.64e-02 4.02e-02 -2.43e-02 -1.08e-02 4.55e-02 -7.32e-03  
## 3347 -1.11e-02 9.76e-04 -3.69e-03 -1.46e-03 -5.24e-03 -2.47e-03 -1.37e-02  
## 3348 -2.31e-02 -9.92e-03 -3.27e-02 7.27e-03 1.48e-02 8.51e-03 2.87e-02  
## 3349 -4.19e-04 -9.29e-04 2.53e-03 -2.32e-03 2.93e-03 -2.59e-03 2.67e-03  
## 3350 3.70e-05 -3.35e-05 -5.82e-05 4.02e-04 -1.02e-04 -1.55e-04 3.70e-04  
## 3351 -3.63e-02 -4.62e-02 -1.26e-02 -1.90e-02 -8.38e-03 -1.28e-02 -6.51e-03  
## 3352 6.75e-03 -3.54e-02 -9.24e-03 -1.64e-02 3.83e-02 -1.86e-02 -2.07e-02  
## 3353 -2.02e-03 3.21e-03 3.49e-03 -5.17e-03 2.56e-03 -6.51e-03 7.96e-04  
## 3354 -1.28e-03 -6.79e-03 -1.69e-03 -3.38e-03 -2.77e-03 -3.27e-03 -2.61e-03  
## 3355 1.62e-02 5.50e-03 -9.39e-03 -4.43e-03 2.51e-02 -8.03e-03 1.92e-02  
## 3356 2.72e-03 3.04e-03 -2.76e-03 3.26e-03 -3.43e-03 -4.61e-03 2.80e-03  
## 3357 6.20e-03 -1.97e-02 4.07e-02 3.99e-02 -5.94e-03 -1.92e-02 -4.23e-04  
## 3358 -9.97e-04 -6.87e-04 -3.56e-03 4.12e-03 -2.04e-03 -2.82e-03 -2.01e-03  
## 3359 -1.49e-02 1.60e-02 -1.01e-02 3.34e-02 2.09e-02 -9.65e-03 1.21e-02  
## 3360 -4.79e-04 -9.85e-04 -1.84e-04 2.56e-04 2.54e-04 6.84e-04 -8.23e-06  
## 3361 -2.35e-02 -1.05e-04 1.52e-02 1.06e-02 -1.51e-02 1.69e-02 -5.21e-03  
## 3362 1.55e-03 7.73e-04 -1.28e-03 -1.26e-03 -9.40e-04 -7.16e-04 -1.11e-03  
## 3363 6.42e-03 -1.07e-03 -1.18e-02 1.18e-02 -1.28e-02 1.32e-02 2.38e-02  
## 3364 2.41e-02 2.05e-02 7.96e-03 -2.79e-02 3.31e-03 6.60e-03 -3.57e-04  
## 3365 -8.98e-04 -3.99e-03 -6.90e-03 -8.65e-03 -7.99e-03 4.96e-03 6.04e-03  
## 3366 3.41e-03 2.79e-02 6.15e-03 1.11e-02 1.15e-02 1.28e-02 9.03e-03  
## 3367 3.71e-03 -7.42e-03 -9.28e-03 8.94e-03 1.73e-02 -2.16e-02 -7.26e-03  
## 3368 -1.08e-02 -1.12e-03 -5.25e-03 -2.00e-03 -3.41e-03 -3.48e-04 -8.12e-03  
## 3369 7.64e-03 -2.33e-02 4.05e-02 3.89e-02 -7.21e-03 -1.55e-02 1.88e-03  
## 3370 3.76e-03 2.41e-03 -5.75e-04 -1.18e-03 -6.20e-04 -5.81e-04 1.02e-04  
## 3371 -1.99e-04 -7.53e-03 -1.79e-03 -2.95e-03 -2.98e-03 -3.03e-03 -2.29e-03  
## 3372 -2.06e-03 7.55e-04 -1.76e-05 -9.89e-05 -1.62e-04 2.79e-05 1.60e-04  
## 3373 7.75e-03 -5.05e-03 3.83e-03 3.04e-03 2.22e-03 1.91e-03 4.53e-03  
## 3374 5.60e-05 -6.21e-03 -1.74e-03 -2.04e-03 -2.07e-03 -2.11e-03 -2.69e-03  
## 3375 -6.65e-03 1.19e-03 -1.35e-03 1.51e-03 -4.20e-03 8.17e-05 6.23e-03  
## 3376 -3.10e-03 2.04e-03 3.94e-03 -4.86e-03 -3.82e-03 -3.52e-03 -4.20e-03  
## 3377 -3.75e-03 1.35e-03 -3.76e-04 -5.40e-04 -3.88e-04 -1.05e-04 2.86e-05  
## 3378 -1.35e-02 -3.70e-04 -7.37e-03 -4.52e-03 -5.92e-03 -2.80e-03 -1.18e-02  
## 3379 1.59e-02 4.61e-03 -1.05e-02 -8.71e-03 2.91e-02 -7.57e-03 -1.81e-02  
## 3380 -1.03e-02 1.57e-03 -5.04e-03 -5.80e-04 -8.67e-03 -3.71e-03 8.48e-03  
## 3381 2.35e-03 2.48e-03 2.55e-03 -2.30e-03 2.48e-03 -2.63e-03 2.28e-03  
## 3382 -4.54e-04 -6.17e-03 -1.49e-03 -1.90e-03 -1.92e-03 -2.14e-03 -2.43e-03  
## 3383 -2.39e-03 2.85e-03 2.58e-03 -2.66e-03 -3.49e-03 1.97e-03 9.49e-04  
## 3384 -2.12e-02 -4.54e-04 1.27e-02 9.20e-03 1.00e-02 8.36e-03 2.05e-02  
## 3385 3.61e-04 4.38e-04 3.84e-05 5.03e-05 3.89e-05 1.34e-04 1.49e-04  
## 3386 5.10e-05 -6.01e-03 -1.82e-03 -2.19e-03 -1.97e-03 -2.17e-03 -2.64e-03  
## 3387 -4.82e-03 1.08e-02 4.78e-03 5.54e-03 3.15e-03 4.23e-03 2.63e-03  
## 3388 5.05e-04 -1.69e-04 1.15e-02 9.65e-03 -5.19e-04 -4.15e-03 1.76e-03  
## 3389 9.84e-03 8.17e-03 -9.22e-03 -8.10e-03 4.39e-03 7.63e-03 1.69e-03  
## 3390 1.89e-03 -4.00e-03 -2.97e-03 -5.43e-03 -5.46e-03 4.49e-03 5.03e-03  
## 3391 -7.73e-03 -1.75e-03 -2.27e-03 -4.08e-03 7.66e-03 6.56e-03 -1.77e-03  
## 3392 -1.96e-03 -1.94e-03 1.35e-03 1.53e-03 1.01e-03 9.31e-04 1.57e-03  
## 3393 1.71e-03 -3.91e-03 -3.22e-03 -6.20e-03 -4.61e-03 8.08e-03 1.18e-02  
## 3394 7.63e-03 9.82e-03 6.14e-03 7.53e-03 -5.22e-03 -5.07e-03 -4.89e-03  
## 3395 1.77e-02 8.40e-04 1.34e-02 8.22e-03 1.51e-02 8.34e-03 -2.72e-02  
## 3396 3.44e-04 3.14e-04 -1.42e-06 4.19e-06 -6.76e-06 -6.62e-05 3.99e-05  
## 3397 -1.37e-02 5.75e-03 2.14e-02 -1.80e-03 -5.99e-03 -3.22e-03 -1.52e-02  
## 3398 -3.58e-04 -6.26e-03 -1.53e-03 -1.89e-03 -1.77e-03 -1.93e-03 -2.58e-03  
## 3399 -1.37e-03 2.37e-03 -2.13e-03 -1.73e-03 1.45e-03 2.54e-03 6.80e-04  
## 3400 1.67e-03 -4.60e-03 8.99e-03 -5.49e-03 6.05e-03 -8.47e-03 6.43e-03  
## 3401 -9.63e-04 -1.88e-03 -1.93e-04 -1.04e-04 -2.00e-04 -1.32e-04 -4.70e-04  
## 3402 -4.27e-04 -2.54e-04 -1.44e-06 -6.56e-05 -3.43e-06 -9.12e-05 -7.44e-05  
## 3403 9.64e-03 -3.87e-02 4.00e-02 -2.11e-02 -9.50e-03 -1.79e-02 -3.70e-03  
## 3404 3.61e-04 -2.77e-03 -8.94e-04 -2.63e-03 -5.05e-04 -2.16e-03 -1.29e-04  
## 3405 8.30e-03 -4.25e-02 -9.80e-03 -1.39e-02 -1.23e-02 -1.63e-02 4.72e-02  
## 3406 -4.12e-03 -1.51e-03 1.69e-02 -1.15e-02 -2.68e-02 -1.03e-02 1.19e-02  
## 3407 -1.00e-03 2.71e-03 -5.84e-03 -3.24e-03 3.68e-03 -3.13e-03 2.33e-03  
## 3408 -2.45e-02 1.31e-03 1.60e-02 8.89e-03 1.90e-02 1.07e-02 -1.14e-02  
## 3409 -1.31e-04 -5.42e-04 1.71e-03 -9.52e-04 -1.35e-03 -1.02e-03 1.52e-03  
## 3410 -3.66e-03 -2.34e-02 -4.60e-02 -3.35e-02 -3.87e-02 -2.87e-02 2.24e-02  
## 3411 -5.68e-03 1.49e-02 6.65e-03 -2.60e-02 9.32e-03 1.21e-02 -2.12e-02  
## 3412 -3.20e-03 7.20e-03 -1.20e-02 9.09e-03 4.36e-03 -1.30e-02 2.56e-03  
## 3413 3.83e-03 -7.87e-03 -6.61e-03 -1.22e-02 -6.43e-03 9.27e-03 -4.85e-03  
## 3414 -3.57e-03 3.71e-05 -2.83e-04 3.29e-03 3.43e-03 -1.19e-03 -5.96e-04  
## 3415 1.62e-02 9.27e-03 -1.64e-02 -1.90e-02 5.19e-03 8.11e-03 -2.41e-02  
## 3416 -1.69e-04 1.32e-03 1.66e-04 5.90e-04 6.87e-04 8.40e-04 -2.60e-03  
## 3417 7.42e-05 7.49e-05 -2.43e-04 1.62e-04 8.64e-05 1.02e-04 1.06e-04  
## 3418 7.04e-03 -3.29e-02 -1.54e-02 3.65e-02 -1.03e-02 -2.29e-02 -4.27e-03  
## 3419 1.36e-02 2.34e-03 -6.07e-03 -1.66e-03 -1.06e-02 -5.74e-03 1.00e-02  
## 3420 -1.98e-02 5.35e-03 1.52e-02 1.41e-02 1.28e-02 1.21e-02 1.74e-02  
## 3421 1.41e-02 5.73e-04 -8.34e-03 -5.99e-03 -6.65e-03 -5.57e-03 -1.31e-02  
## 3422 1.87e-02 3.74e-04 1.47e-02 4.75e-03 2.13e-02 8.59e-03 -1.76e-02  
## 3423 -9.94e-03 1.40e-02 -2.88e-02 4.14e-02 2.85e-02 -1.32e-02 2.96e-02  
## 3424 7.65e-04 9.76e-04 7.75e-06 -2.01e-05 1.03e-04 2.20e-04 2.82e-04  
## 3425 -7.14e-03 -3.43e-03 -2.91e-03 -4.16e-03 -3.34e-03 6.67e-03 8.64e-03  
## 3426 -1.09e-02 4.29e-03 -9.25e-03 -2.92e-03 1.75e-02 -6.56e-03 7.76e-03  
## 3427 -1.92e-03 -2.22e-03 1.20e-03 1.51e-03 8.61e-04 8.47e-04 1.54e-03  
## 3428 2.71e-03 -4.86e-03 -4.67e-03 -9.52e-03 -4.57e-03 1.02e-02 -2.69e-03  
## 3429 -2.77e-03 6.49e-03 5.65e-03 -8.95e-03 4.93e-03 -9.05e-03 3.13e-03  
## 3430 -2.17e-02 -1.64e-03 1.29e-02 9.19e-03 1.05e-02 8.55e-03 1.96e-02  
## 3431 -1.14e-03 -3.25e-03 -6.55e-04 -1.05e-03 -6.65e-04 -4.32e-04 -9.55e-04  
## 3432 9.19e-03 1.57e-02 -9.66e-03 8.42e-03 5.12e-03 7.62e-03 3.49e-03  
## 3433 -1.06e-02 6.14e-04 -6.92e-03 -1.64e-03 -1.10e-02 -4.17e-03 9.58e-03  
## 3434 3.25e-03 -1.36e-02 1.02e-02 -3.86e-02 6.46e-03 -4.54e-02 1.01e-04  
## 3435 -3.07e-03 -2.81e-03 2.09e-03 2.27e-03 1.77e-03 1.50e-03 2.45e-03  
## 3436 -2.96e-03 4.04e-03 -5.10e-03 -4.64e-03 -6.61e-03 5.48e-03 2.44e-03  
## 3437 -1.97e-02 -1.58e-02 1.37e-02 8.31e-03 -1.75e-02 -2.71e-02 -7.86e-03  
## 3438 -1.19e-02 -1.28e-02 -7.71e-03 -1.14e-02 -7.98e-03 -1.10e-02 -8.62e-03  
## 3439 -8.34e-05 1.38e-04 5.89e-03 -7.17e-03 -8.07e-03 7.29e-03 4.60e-03  
## 3440 6.42e-03 -6.07e-03 -1.14e-02 1.16e-02 1.84e-02 -1.67e-02 -4.71e-03  
## 3441 3.17e-03 -5.25e-03 -5.18e-03 -1.03e-02 -5.18e-03 1.13e-02 -2.97e-03  
## 3442 6.62e-03 2.06e-03 -1.14e-02 1.28e-02 1.21e-02 1.07e-02 1.35e-02  
## 3443 9.59e-03 -2.85e-02 -1.28e-02 -2.28e-02 -1.84e-02 4.04e-02 -2.28e-02  
## 3444 3.80e-03 -2.86e-04 -7.36e-03 1.13e-02 -9.69e-03 1.17e-02 -7.52e-03  
## 3445 -8.97e-05 2.13e-03 -4.70e-03 9.73e-03 -4.80e-03 1.05e-02 -1.80e-03  
## 3446 -1.89e-02 6.55e-03 1.40e-02 1.03e-02 1.11e-02 7.04e-03 1.19e-02  
## 3447 -5.54e-03 2.89e-02 7.46e-03 9.78e-03 4.58e-03 9.32e-03 3.80e-03  
## 3448 5.76e-04 4.92e-03 1.45e-02 9.77e-03 -4.25e-03 1.08e-02 -9.05e-04  
## 3449 -1.86e-04 1.99e-03 -1.74e-02 9.11e-03 -2.24e-02 5.86e-03 8.08e-03  
## 3450 9.97e-03 3.02e-03 -3.48e-03 -3.19e-04 -7.86e-03 -4.16e-03 8.46e-03  
## 3451 -4.76e-04 -5.99e-04 -7.78e-04 4.02e-04 2.87e-04 2.48e-04 3.59e-04  
## 3452 1.36e-05 -8.50e-03 -2.45e-03 -4.08e-03 -3.53e-03 -3.30e-03 -3.23e-03  
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## 3454 6.66e-03 -1.78e-03 -1.46e-04 2.38e-05 -1.02e-05 4.86e-04 2.61e-04  
## 3455 -1.89e-02 -8.17e-03 1.53e-02 1.03e-02 -9.09e-03 -1.77e-02 -3.31e-03  
## 3456 -4.77e-04 5.87e-04 -4.93e-04 -4.96e-04 3.38e-04 4.71e-04 1.22e-04  
## 3457 -1.20e-02 7.10e-04 -5.12e-03 -2.06e-03 -6.78e-03 -3.11e-03 -1.61e-02  
## 3458 1.07e-02 -7.75e-03 1.69e-02 -2.81e-02 1.42e-02 1.03e-02 -2.08e-02  
## 3459 -2.21e-02 -4.17e-03 -1.96e-02 9.70e-03 1.44e-02 8.78e-03 2.31e-02  
## 3460 -6.31e-03 2.76e-02 7.77e-03 9.77e-03 4.89e-03 9.19e-03 3.84e-03  
## 3461 -1.46e-03 5.91e-04 -9.44e-05 5.48e-06 -1.14e-05 6.13e-05 7.55e-06  
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## 3464 -3.18e-02 -1.16e-03 1.53e-02 3.17e-03 2.21e-02 7.86e-03 -1.95e-02  
## 3465 -4.80e-03 1.28e-02 6.84e-03 -1.62e-02 4.07e-03 8.39e-03 2.13e-03  
## 3466 -9.48e-04 -1.68e-03 -1.53e-04 -9.75e-05 -1.89e-04 -1.68e-04 -4.22e-04  
## 3467 4.02e-03 -1.66e-03 -1.06e-02 9.77e-03 -1.10e-02 9.26e-03 -6.97e-03  
## 3468 -1.18e-02 1.68e-02 -2.45e-02 -1.45e-02 1.87e-02 3.58e-02 7.65e-03  
## 3469 1.69e-03 -3.29e-03 -4.34e-03 -1.03e-02 7.77e-03 4.69e-03 7.89e-03  
## 3470 -4.00e-04 -3.22e-03 -5.57e-04 1.60e-04 -2.13e-04 3.04e-04 -4.00e-04  
## 3471 3.75e-04 1.26e-03 1.69e-02 -1.38e-02 1.76e-02 1.13e-02 -4.29e-03  
## 3472 1.84e-02 3.36e-03 1.52e-02 9.67e-03 1.01e-02 6.47e-03 1.81e-02  
## 3473 1.88e-02 1.37e-02 6.86e-03 -2.10e-02 -1.65e-02 1.47e-02 -1.58e-02  
## 3474 9.37e-03 -4.34e-02 -1.23e-02 -1.57e-02 -7.07e-03 -1.42e-02 -6.05e-03  
## 3475 2.91e-03 1.88e-03 -1.80e-04 -5.47e-04 -5.26e-04 -2.95e-04 2.47e-04  
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## 3477 -7.00e-03 2.20e-02 7.36e-03 8.34e-03 4.46e-03 7.22e-03 2.60e-03  
## 3478 -1.56e-02 -7.90e-03 -2.12e-02 1.07e-02 -2.46e-02 8.93e-03 1.43e-02  
## 3479 -2.32e-02 -6.45e-03 1.57e-02 -2.70e-02 1.44e-02 7.47e-03 2.08e-02  
## 3480 -1.55e-02 2.74e-04 -6.29e-03 -3.53e-03 -4.77e-03 -3.01e-03 -1.04e-02  
## 3481 4.26e-03 -4.08e-03 -6.61e-03 -9.94e-03 1.06e-02 9.83e-03 -9.54e-03  
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## 3484 1.34e-02 4.63e-04 -1.31e-02 -1.30e-02 -1.03e-02 -9.83e-03 -1.05e-02  
## 3485 1.09e-02 -3.87e-02 -1.39e-02 -1.81e-02 4.41e-02 -1.66e-02 -1.16e-02  
## 3486 -3.36e-03 3.83e-03 -4.28e-03 4.74e-03 -4.44e-03 -4.33e-03 -5.57e-03  
## 3487 4.68e-03 5.33e-03 -1.94e-02 1.14e-02 7.75e-03 9.66e-03 5.72e-03  
## 3488 -6.46e-03 2.64e-02 7.51e-03 9.54e-03 5.03e-03 9.31e-03 3.47e-03  
## 3489 -1.29e-02 8.92e-04 -8.05e-03 -3.85e-03 -8.23e-03 -4.21e-03 1.75e-02  
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## 3497 -9.35e-04 -1.32e-03 8.11e-03 -1.39e-02 -8.88e-03 1.15e-02 -8.37e-03  
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## 3500 3.24e-03 1.03e-02 1.06e-02 1.01e-02 8.14e-03 9.20e-03 7.67e-03  
## 3501 1.80e-02 -1.58e-02 1.30e-02 -3.27e-02 -3.02e-02 9.49e-03 1.59e-02  
## 3502 -4.96e-05 -6.25e-03 -1.81e-03 -2.21e-03 -1.97e-03 -2.20e-03 -2.59e-03  
## 3503 5.85e-05 -2.98e-04 -6.18e-05 -2.04e-04 -2.94e-05 -1.14e-04 6.22e-06  
## 3504 -5.52e-03 2.89e-02 7.45e-03 9.77e-03 4.56e-03 9.31e-03 3.77e-03  
## 3505 2.32e-02 1.40e-03 1.38e-02 8.64e-03 9.55e-03 6.25e-03 1.98e-02  
## 3506 5.35e-04 -1.53e-04 -1.29e-05 1.47e-05 1.88e-05 2.71e-05 -2.82e-05  
## 3507 4.59e-03 -2.14e-03 -4.41e-04 -1.06e-03 -5.73e-04 -1.54e-03 -1.32e-03  
## 3508 -7.38e-04 -4.57e-03 -8.12e-04 -1.04e-03 -1.04e-03 -1.53e-03 -1.52e-03  
## 3509 1.24e-03 -3.10e-03 7.58e-03 -3.33e-03 -8.20e-04 -2.31e-03 6.39e-04  
## 3510 -4.22e-03 7.58e-03 -1.39e-02 -1.43e-02 3.13e-03 7.30e-03 4.39e-04  
## 3511 8.45e-03 -4.41e-02 -1.12e-02 -1.47e-02 -6.76e-03 -1.40e-02 -4.45e-03  
## 3512 6.73e-02 4.69e-02 1.08e-02 3.07e-02 8.97e-03 2.58e-02 4.71e-03  
## 3513 1.87e-04 -6.43e-03 -1.95e-03 -2.30e-03 -2.04e-03 -2.19e-03 -2.70e-03  
## 3514 8.58e-03 6.66e-03 1.98e-02 7.82e-03 1.61e-02 5.37e-03 -2.34e-02  
## 3515 -9.84e-04 -5.04e-03 -1.24e-03 -1.59e-03 -1.57e-03 -2.34e-03 -2.16e-03  
## 3516 1.60e-03 -2.34e-03 1.59e-03 1.33e-03 -1.40e-03 -2.11e-03 -6.24e-04  
## 3517 -2.19e-04 -3.98e-04 -3.87e-05 -1.11e-05 -3.68e-05 -6.10e-05 -9.59e-05  
## 3518 -3.25e-04 1.53e-03 3.55e-04 8.87e-04 -9.45e-06 6.58e-04 1.76e-05  
## 3519 -9.84e-03 -1.84e-04 -5.48e-03 -1.20e-03 -6.46e-03 -1.05e-03 -1.42e-02  
## 3520 -7.86e-03 3.53e-03 1.90e-02 -1.32e-02 2.59e-02 -1.02e-02 2.31e-02  
## 3521 9.93e-03 -3.88e-02 -1.09e-02 -1.50e-02 4.20e-02 -1.23e-02 -5.99e-03  
## 3522 -1.42e-02 7.78e-04 -6.13e-03 -3.63e-03 -5.32e-03 -2.51e-03 -1.05e-02  
## 3523 4.02e-03 2.90e-02 7.59e-03 1.45e-02 1.18e-02 1.33e-02 1.12e-02  
## 3524 -2.33e-02 -6.32e-03 1.11e-02 5.57e-03 -4.17e-02 3.94e-03 2.13e-02  
## 3525 2.33e-02 1.39e-02 7.14e-03 8.11e-03 -2.38e-02 -2.41e-02 -2.50e-02  
## 3526 -6.48e-04 -2.50e-03 -5.18e-04 -2.60e-04 -2.87e-04 1.08e-05 -8.22e-04  
## 3527 1.14e-02 -3.55e-02 -1.09e-02 -1.30e-02 3.79e-02 -1.65e-02 -2.05e-02  
## 3528 -8.78e-04 -4.77e-03 -1.14e-03 -1.46e-03 -1.18e-03 -2.65e-04 -1.06e-03  
## 3529 4.46e-02 3.90e-02 2.10e-02 3.30e-02 -4.79e-02 2.78e-02 1.15e-02  
## 3530 9.82e-04 -1.69e-03 -1.83e-03 6.64e-03 -9.69e-04 -2.98e-03 7.78e-04  
## 3531 2.81e-02 -8.35e-03 -3.97e-02 6.79e-03 6.92e-03 5.61e-03 1.78e-02  
## 3532 -3.25e-03 9.14e-03 -7.51e-03 6.81e-03 -8.46e-03 6.34e-03 3.30e-03  
## 3533 8.96e-03 4.43e-03 3.04e-04 1.21e-03 7.49e-04 1.43e-03 1.92e-03  
## 3534 1.06e-02 -4.52e-02 -1.32e-02 -1.61e-02 -7.93e-03 -1.46e-02 -6.35e-03  
## 3535 4.64e-03 2.43e-03 2.61e-04 1.16e-03 5.38e-05 6.68e-04 -3.29e-04  
## 3536 -1.65e-03 2.06e-04 7.19e-03 -1.03e-02 6.82e-03 5.82e-03 -1.32e-02  
## 3537 8.71e-04 -7.23e-03 -7.31e-03 -7.12e-03 -6.48e-03 -6.36e-03 8.04e-03  
## 3538 -3.36e-04 2.38e-03 4.54e-04 9.68e-04 3.42e-04 1.14e-03 -5.89e-03  
## 3539 -1.64e-02 8.89e-03 2.64e-02 -1.25e-02 2.75e-02 -1.20e-02 2.47e-02  
## 3540 6.11e-03 5.45e-03 2.04e-02 1.01e-02 2.08e-02 1.10e-02 -9.01e-03  
## 3541 -3.66e-03 -5.25e-03 -6.54e-03 2.51e-03 1.62e-03 1.86e-03 3.16e-03  
## 3542 -2.52e-03 -2.80e-03 2.08e-03 2.24e-03 1.30e-03 1.90e-03 2.75e-03  
## 3543 3.45e-04 -1.27e-03 4.26e-03 -1.61e-03 4.14e-03 -2.22e-03 4.54e-03  
## 3544 5.82e-03 -3.19e-03 3.60e-03 2.41e-03 5.06e-03 2.86e-03 -5.24e-03  
## 3545 2.72e-02 1.19e-02 -2.01e-02 -1.27e-02 -2.49e-02 3.34e-02 9.98e-03  
## 3546 1.28e-02 1.77e-03 -6.85e-03 -4.75e-03 -8.21e-03 -5.88e-03 -1.98e-02  
## 3547 2.58e-04 -9.63e-04 -7.68e-04 -1.97e-03 -1.02e-03 4.91e-03 5.79e-03  
## 3548 -2.35e-03 8.36e-04 6.56e-05 -2.68e-05 -7.52e-05 -5.71e-05 2.97e-04  
## 3549 -2.12e-02 4.84e-04 1.50e-02 1.19e-02 1.01e-02 9.28e-03 2.04e-02  
## 3550 -1.27e-02 -9.18e-04 -1.06e-02 -4.41e-03 -1.02e-02 -5.46e-03 1.90e-02  
## 3551 -3.72e-04 -2.76e-03 -5.73e-04 -4.34e-05 -2.21e-04 9.78e-05 -4.60e-04  
## 3552 1.24e-04 -1.05e-02 -1.92e-02 -2.59e-02 -1.75e-02 9.41e-03 -1.77e-02  
## 3553 1.15e-02 5.13e-03 1.39e-02 1.15e-02 2.09e-02 1.43e-02 -9.14e-03  
## 3554 -2.67e-04 -4.39e-04 -6.52e-05 9.03e-05 1.01e-04 2.41e-04 -3.94e-05  
## 3555 -4.84e-03 2.42e-02 6.58e-03 9.96e-03 4.87e-03 8.14e-03 2.52e-03  
## 3556 -1.71e-02 9.36e-03 -1.82e-02 -1.39e-02 -1.38e-02 3.91e-02 -2.07e-02  
## 3557 -1.09e-02 4.51e-03 1.87e-02 -3.50e-05 -5.11e-03 -6.11e-04 -1.26e-02  
## 3558 1.34e-02 -1.07e-02 1.57e-02 -3.83e-02 1.51e-02 6.75e-03 2.43e-02  
## 3559 1.36e-03 2.79e-03 -4.21e-03 9.33e-03 1.09e-02 8.32e-03 1.32e-02  
## 3560 7.79e-03 -3.37e-02 3.76e-02 -1.44e-02 -6.20e-03 -1.44e-02 -4.14e-03  
## 3561 4.82e-03 4.54e-03 -4.25e-03 5.05e-03 -4.04e-03 -4.39e-03 -3.65e-03  
## 3562 2.02e-02 2.12e-02 2.77e-02 -1.25e-02 -1.59e-02 3.60e-02 -2.99e-02  
## 3563 -1.99e-02 -2.07e-02 -2.57e-02 7.92e-03 1.81e-02 -3.16e-02 -1.33e-02  
## 3564 -6.95e-04 -2.79e-03 -6.53e-04 -4.01e-04 -3.45e-04 -8.64e-05 -7.69e-04  
## 3565 -4.43e-04 -8.43e-04 -6.28e-05 3.97e-04 2.90e-04 6.18e-04 1.77e-04  
## 3566 -9.22e-03 1.90e-02 8.52e-03 8.50e-03 -1.74e-02 9.02e-03 1.18e-02  
## 3567 -2.80e-02 4.50e-03 1.78e-02 9.27e-03 1.66e-02 6.96e-03 2.79e-02  
## 3568 -1.45e-03 -4.66e-03 -7.24e-04 -1.71e-03 -1.69e-03 -2.23e-03 -1.67e-03  
## 3569 -1.42e-04 -8.82e-03 -2.42e-03 -4.12e-03 -3.52e-03 -3.34e-03 -3.12e-03  
## 3570 -3.12e-03 2.00e-04 9.88e-03 7.34e-03 1.14e-02 -1.54e-02 -8.98e-03  
## 3571 8.46e-05 -4.72e-05 -1.79e-06 -1.61e-05 -1.67e-05 -2.88e-05 -1.85e-05  
## 3572 2.29e-02 -3.73e-02 3.77e-02 -3.56e-02 -3.07e-02 3.65e-02 -3.45e-02  
## 3573 -3.99e-03 5.71e-03 -6.82e-03 -7.39e-03 4.00e-03 5.37e-03 -1.14e-02  
## 3574 8.57e-03 4.85e-04 1.69e-02 1.16e-02 -2.15e-02 7.70e-03 1.88e-02  
## 3575 6.10e-03 -1.85e-02 -9.46e-03 -1.27e-02 3.43e-02 3.53e-02 2.72e-02  
## 3576 7.11e-03 -4.68e-03 4.69e-03 3.01e-03 4.77e-03 2.81e-03 8.96e-03  
## 3577 -2.35e-02 -2.69e-03 1.26e-02 6.18e-03 1.42e-02 9.92e-03 -3.11e-02  
## 3578 -2.77e-04 -2.59e-03 -7.44e-03 7.56e-03 -5.02e-03 -7.04e-03 -4.23e-03  
## 3579 -1.86e-02 -1.24e-02 1.26e-02 -3.35e-02 9.78e-03 9.39e-03 1.51e-02  
## 3580 -1.52e-02 -8.90e-03 1.29e-02 -1.36e-02 1.44e-02 -1.51e-02 -1.18e-02  
## 3581 -1.39e-02 2.63e-02 -1.93e-02 3.63e-02 4.11e-02 3.89e-02 -1.54e-02  
## 3582 -9.69e-03 5.04e-03 1.77e-02 1.48e-03 -6.53e-03 -1.08e-03 9.98e-03  
## 3583 2.67e-02 1.82e-02 -3.00e-02 5.93e-03 -2.89e-02 8.61e-03 1.21e-02  
## 3584 1.34e-02 2.09e-02 7.10e-03 8.49e-03 7.36e-03 6.47e-03 8.30e-03  
## 3585 -1.08e-03 -1.47e-03 -1.69e-04 -4.15e-04 -3.08e-04 -4.80e-04 -4.54e-04  
## 3586 1.48e-02 3.54e-02 2.95e-02 3.29e-02 -9.57e-03 3.46e-02 -1.51e-02  
## 3587 8.86e-03 -4.18e-02 -1.16e-02 -1.51e-02 -6.93e-03 -1.41e-02 -5.63e-03  
## 3588 1.64e-02 -6.23e-04 -1.05e-02 -7.48e-03 -7.88e-03 -6.30e-03 -1.48e-02  
## 3589 3.50e-03 3.57e-03 -2.27e-02 1.06e-02 1.17e-02 1.09e-02 1.44e-02  
## 3590 1.45e-02 2.04e-05 -7.72e-03 -4.11e-03 -5.72e-03 -2.51e-03 -1.04e-02  
## 3591 7.28e-03 -2.28e-02 4.29e-02 3.85e-02 -9.50e-03 -2.28e-02 -3.04e-04  
## 3592 -2.33e-02 -1.30e-02 1.48e-02 9.24e-03 2.11e-02 -3.27e-02 -1.05e-02  
## 3593 -7.05e-03 3.01e-02 7.64e-03 1.03e-02 5.79e-03 7.40e-03 2.35e-03  
## 3594 3.90e-03 5.37e-04 -3.13e-03 -3.23e-03 -3.85e-03 -3.85e-03 -5.03e-03  
## 3595 -1.04e-02 4.22e-03 2.18e-02 -1.70e-02 3.45e-02 -8.22e-03 -2.60e-02  
## 3596 -2.31e-04 -3.88e-04 -2.38e-05 -8.22e-05 -1.20e-04 -2.22e-04 -1.59e-04  
## 3597 9.40e-03 4.79e-03 -9.09e-03 -1.03e-02 -1.24e-02 5.74e-03 1.46e-03  
## 3598 9.10e-03 -4.64e-02 -1.26e-02 -1.95e-02 -9.83e-03 -1.64e-02 -6.00e-03  
## 3599 -8.05e-04 -2.08e-03 -3.08e-04 -5.41e-04 -6.46e-04 -1.08e-03 -8.13e-04  
## 3600 -6.27e-03 1.45e-02 -1.19e-02 7.15e-03 3.58e-03 5.68e-03 2.00e-03  
## 3601 -2.22e-04 5.07e-03 1.67e-02 1.13e-02 -4.07e-03 1.24e-02 9.12e-05  
## 3602 -2.17e-03 5.07e-03 4.44e-03 -5.52e-03 4.28e-03 -6.19e-03 2.28e-03  
## 3603 -1.35e-02 -8.17e-03 -2.43e-02 -1.87e-02 -1.80e-02 -1.10e-02 -2.22e-02  
## 3604 2.51e-03 6.96e-04 -6.11e-03 1.03e-02 -6.05e-03 1.27e-02 -1.88e-03  
## 3605 -1.16e-02 5.72e-03 -5.00e-03 -4.62e-04 1.68e-02 -4.90e-03 8.33e-03  
## 3606 -1.45e-02 -3.98e-03 -8.01e-03 1.16e-02 1.67e-02 -7.77e-03 -1.35e-03  
## 3607 1.72e-02 3.24e-03 1.48e-02 8.99e-03 1.01e-02 6.07e-03 1.73e-02  
## 3608 -4.75e-03 6.77e-03 1.05e-02 7.13e-03 -1.10e-02 1.02e-02 -9.98e-03  
## 3609 5.55e-04 5.30e-04 -1.64e-03 9.61e-04 4.31e-04 6.98e-04 7.03e-04  
## 3610 -1.23e-02 8.88e-03 2.31e-02 -5.67e-03 1.97e-02 -6.60e-03 1.08e-02  
## 3611 -6.54e-03 -6.82e-04 -1.71e-03 -3.25e-03 5.25e-03 3.95e-03 5.43e-03  
## 3612 -1.24e-03 -5.39e-03 -8.83e-03 -3.91e-03 2.42e-02 -8.04e-03 2.03e-02  
## 3613 6.83e-03 1.07e-02 -7.10e-03 6.00e-03 3.02e-03 3.45e-03 1.47e-03  
## 3614 1.00e-02 -5.87e-03 3.83e-03 2.69e-03 2.42e-03 1.64e-03 5.23e-03  
## 3615 1.04e-04 -7.08e-03 -1.58e-02 7.30e-03 -1.64e-02 -2.19e-02 -1.88e-02  
## 3616 -5.64e-03 -1.63e-02 -1.62e-02 -1.70e-02 -1.18e-02 -1.37e-02 -1.29e-02  
## 3617 -4.97e-03 -5.40e-03 2.79e-03 2.32e-03 1.91e-03 1.68e-03 3.97e-03  
## 3618 -2.72e-02 3.88e-03 1.76e-02 1.04e-02 1.27e-02 4.61e-03 1.64e-02  
## 3619 1.71e-03 -9.15e-04 -7.21e-03 1.03e-02 -1.15e-02 7.04e-03 2.08e-02  
## 3620 2.81e-03 1.73e-03 -2.19e-04 -6.05e-04 -4.44e-04 -2.75e-04 2.43e-04  
## 3621 -3.58e-03 6.19e-03 -9.36e-03 6.91e-03 3.33e-03 -1.12e-02 2.30e-03  
## 3622 -7.69e-04 -2.88e-03 -5.83e-04 -2.63e-04 -3.66e-04 -1.12e-07 -7.76e-04  
## 3623 -2.36e-03 1.75e-03 5.43e-03 -1.85e-02 -1.86e-02 -1.64e-02 -2.10e-02  
## 3624 9.74e-03 -2.66e-03 -6.71e-04 -2.96e-04 -5.16e-05 7.86e-04 3.35e-04  
## 3625 2.35e-03 3.09e-02 7.17e-03 8.98e-03 8.03e-03 8.96e-03 1.25e-02  
## 3626 9.14e-03 -2.85e-02 -1.07e-02 3.84e-02 -6.04e-03 -1.14e-02 -1.21e-04  
## 3627 1.59e-02 -1.12e-03 1.57e-02 1.04e-02 -3.17e-02 7.29e-03 2.12e-02  
## 3628 -2.56e-02 9.11e-04 1.40e-02 7.62e-03 1.01e-02 4.45e-03 2.01e-02  
## 3629 3.29e-05 -2.28e-04 -6.49e-05 -1.76e-04 -1.50e-05 -1.42e-04 -2.82e-05  
## 3630 -2.23e-03 7.14e-04 -9.81e-05 -1.92e-04 -1.60e-04 3.63e-05 1.57e-04  
## 3631 -4.28e-04 -4.46e-03 -7.93e-04 -1.02e-03 -1.37e-03 -1.39e-03 -1.69e-03  
## 3632 2.00e-03 2.88e-02 7.72e-03 9.99e-03 8.93e-03 1.07e-02 1.16e-02  
## 3633 1.09e-02 -3.77e-02 3.80e-02 -1.65e-02 -8.38e-03 -1.08e-02 -1.43e-03  
## 3634 1.06e-03 6.03e-03 1.98e-02 1.17e-02 -8.19e-03 1.30e-02 -2.80e-03  
## 3635 -1.08e-02 7.81e-03 2.21e-02 -4.90e-03 2.28e-02 -4.21e-03 -2.44e-02  
## 3636 -3.04e-03 4.64e-03 3.45e-03 4.17e-03 -2.09e-03 -1.94e-03 -2.10e-03  
## 3637 1.56e-02 -1.10e-02 -3.00e-02 3.71e-03 -2.80e-02 8.16e-03 -1.56e-02  
## 3638 1.39e-04 1.74e-04 1.78e-05 1.68e-05 2.19e-05 5.25e-05 6.65e-05  
## 3639 1.60e-03 -4.17e-04 -6.75e-06 1.22e-04 6.38e-05 1.79e-04 1.15e-05  
## 3640 -3.19e-04 -5.56e-03 -1.50e-03 -1.87e-03 -1.93e-03 -2.12e-03 -2.51e-03  
## 3641 -1.19e-02 -3.60e-03 1.09e-02 1.14e-02 -8.29e-03 -1.03e-02 1.28e-02  
## 3642 -2.47e-02 1.90e-03 1.40e-02 7.33e-03 1.02e-02 4.15e-03 1.81e-02  
## 3643 4.33e-03 4.07e-03 1.64e-02 1.29e-02 -1.12e-02 1.26e-02 2.52e-02  
## 3644 -3.74e-03 1.33e-03 -3.55e-04 -5.26e-04 -3.77e-04 -1.13e-04 4.03e-05  
## 3645 2.49e-03 -7.88e-04 -1.51e-05 -4.75e-04 -1.62e-04 -5.47e-04 -3.09e-04  
## 3646 -6.50e-05 -3.38e-05 2.31e-06 -7.98e-06 1.05e-07 -1.34e-05 -9.85e-06  
## 3647 -4.38e-03 -1.68e-02 -1.45e-02 -1.50e-02 -1.23e-02 -1.06e-02 -8.51e-03  
## 3648 -4.29e-04 -4.12e-03 -6.41e-03 -6.38e-03 8.51e-03 -4.19e-03 -4.68e-03  
## 3649 -1.94e-02 -8.38e-03 -1.96e-02 1.08e-02 -1.88e-02 1.00e-02 2.39e-02  
## 3650 -1.11e-03 -3.03e-03 -5.76e-04 -9.07e-04 -8.45e-04 -1.48e-03 -1.43e-03  
## 3651 -4.00e-03 8.71e-03 -4.13e-03 5.19e-03 3.65e-03 4.45e-03 2.16e-03  
## 3652 3.66e-03 -1.21e-03 -1.18e-04 -5.72e-05 -2.94e-05 1.93e-04 -7.15e-05  
## 3653 -2.92e-03 9.39e-03 5.55e-03 9.14e-03 -1.52e-02 -1.39e-02 3.85e-03  
## 3654 6.89e-04 -2.17e-03 -1.69e-03 -3.88e-03 -1.37e-03 6.04e-03 -1.08e-03  
## 3655 3.56e-03 -1.36e-03 8.70e-03 1.15e-02 -1.53e-02 -1.43e-02 1.03e-02  
## 3656 -1.75e-02 5.75e-03 1.35e-02 1.10e-02 1.63e-02 1.23e-02 -4.40e-03  
## 3657 1.19e-02 -5.02e-02 -1.54e-02 -2.22e-02 -1.10e-02 -1.78e-02 -5.91e-03  
## 3658 -2.49e-02 -2.90e-03 1.15e-02 3.68e-03 1.93e-02 1.09e-02 -1.91e-02  
## 3659 -4.15e-03 1.60e-02 7.22e-03 1.04e-02 5.30e-03 -2.15e-02 4.53e-03  
## 3660 3.55e-04 -6.69e-04 -8.10e-04 -2.06e-03 -1.22e-03 4.34e-03 -1.54e-03  
## 3661 -8.82e-03 -7.73e-03 -2.85e-02 -1.68e-02 -2.26e-02 -1.24e-02 2.50e-02  
## 3662 -2.76e-02 3.81e-03 1.76e-02 1.45e-02 -1.47e-02 2.23e-02 -1.97e-03  
## 3663 -5.79e-03 1.23e-02 6.32e-03 -1.28e-02 7.19e-03 1.03e-02 -1.67e-02  
## 3664 8.39e-03 -1.59e-02 -1.39e-02 -2.43e-02 -1.40e-02 1.28e-02 -8.23e-03  
## 3665 6.76e-03 -3.63e-03 -6.84e-04 -1.24e-03 -1.33e-03 -2.21e-03 -1.76e-03  
## 3666 -1.39e-02 -8.77e-05 -6.30e-03 -3.88e-03 -4.50e-03 -3.04e-03 -1.04e-02  
## 3667 -2.43e-02 -6.40e-02 -2.70e-02 -2.45e-02 -3.21e-02 -2.85e-02 3.05e-02  
## 3668 -9.69e-03 3.18e-03 2.04e-02 -9.56e-03 -2.22e-02 -1.22e-02 1.17e-02  
## 3669 9.38e-03 -4.64e-02 -1.31e-02 -2.02e-02 -9.87e-03 -1.69e-02 -5.66e-03  
## 3670 -4.35e-05 -6.72e-03 -1.77e-03 -2.10e-03 -2.09e-03 -2.16e-03 -2.63e-03  
## 3671 -1.78e-03 1.51e-03 -4.04e-03 -3.42e-03 3.18e-03 -3.22e-03 -5.85e-03  
## 3672 4.90e-03 1.27e-03 9.74e-03 1.29e-02 9.23e-03 -2.04e-02 7.71e-03  
## 3673 1.75e-02 1.05e-03 -1.68e-02 -1.63e-02 8.46e-03 -1.57e-02 -1.58e-02  
## 3674 -4.43e-05 2.77e-02 8.28e-03 1.37e-02 1.08e-02 1.07e-02 9.90e-03  
## 3675 -6.47e-03 1.68e-04 -1.59e-02 -1.87e-02 -2.09e-02 3.84e-02 3.69e-02  
## 3676 -6.30e-03 -8.48e-04 -1.97e-02 -7.28e-03 1.78e-02 -8.27e-03 8.60e-03  
## 3677 1.41e-02 4.44e-04 -8.32e-03 -5.98e-03 -6.60e-03 -5.57e-03 -1.30e-02  
## 3678 7.53e-03 -8.47e-03 -8.82e-03 2.82e-03 -8.27e-03 4.64e-03 -4.31e-03  
## 3679 8.24e-03 4.56e-03 1.67e-02 1.05e-02 1.11e-02 6.45e-03 1.54e-02  
## 3680 -8.00e-04 -2.22e-03 4.99e-03 -5.88e-03 5.44e-03 -5.85e-03 -7.30e-03  
## 3681 -1.41e-02 -2.11e-03 -1.01e-02 -6.45e-03 -6.76e-03 -4.40e-03 -1.33e-02  
## 3682 2.62e-02 2.05e-02 2.98e-02 -2.03e-02 -3.11e-02 3.02e-02 1.06e-02  
## 3683 9.21e-03 -9.82e-04 1.54e-02 9.16e-03 -1.55e-02 1.11e-02 -9.07e-03  
## 3684 1.33e-02 -4.89e-04 -7.25e-03 -3.94e-03 -5.25e-03 -2.30e-03 -1.04e-02  
## 3685 -2.81e-03 3.59e-03 3.33e-02 -8.34e-03 2.89e-02 -1.61e-02 2.41e-02  
## 3686 8.01e-03 1.36e-02 -8.72e-03 7.25e-03 6.36e-03 7.14e-03 -1.27e-02  
## 3687 2.83e-02 1.80e-02 -2.94e-02 6.41e-03 -3.05e-02 9.42e-03 -3.17e-02  
## 3688 8.23e-03 1.02e-02 5.62e-03 -8.23e-03 5.76e-03 7.68e-03 -1.25e-02  
## 3689 -6.92e-03 2.16e-02 -6.47e-02 2.33e-02 4.93e-03 1.68e-02 -4.31e-03  
## 3690 1.32e-02 -4.42e-03 -2.40e-02 8.15e-03 1.89e-02 9.70e-03 -1.31e-02  
## 3691 9.51e-03 -3.24e-02 -1.44e-02 -2.14e-02 -1.08e-02 4.32e-02 -7.96e-03  
## 3692 1.06e-02 -6.05e-03 1.49e-02 -2.20e-02 1.33e-02 9.69e-03 -1.86e-02  
## 3693 4.27e-03 -1.25e-03 -7.78e-03 9.17e-03 -1.37e-02 6.51e-03 1.16e-02  
## 3694 -3.00e-03 3.80e-03 -5.70e-03 5.64e-03 -4.85e-03 -4.74e-03 5.15e-03  
## 3695 5.00e-03 3.14e-02 6.29e-03 1.32e-02 1.28e-02 1.35e-02 1.09e-02  
## 3696 3.32e-03 -8.01e-04 -4.95e-05 3.25e-04 2.00e-04 4.12e-04 2.98e-05  
## 3697 -1.49e-02 8.13e-03 -1.26e-02 3.26e-02 -7.56e-03 -4.16e-03 -1.10e-02  
## 3698 -3.50e-04 -2.68e-03 -4.47e-04 -5.33e-05 -2.93e-04 2.33e-04 -4.41e-04  
## 3699 -7.20e-04 -9.39e-04 6.08e-04 7.87e-04 8.89e-04 -1.08e-03 1.25e-03  
## 3700 -3.93e-03 -6.48e-03 -6.65e-03 1.71e-03 -5.76e-03 3.38e-03 -3.55e-03  
## 3701 1.52e-02 -1.18e-02 1.44e-02 1.11e-02 -2.48e-02 -3.06e-02 1.90e-02  
## 3702 3.58e-03 2.52e-03 -4.26e-04 -1.00e-03 -6.39e-04 -5.51e-04 1.15e-04  
## 3703 -5.27e-04 -1.46e-03 -2.84e-04 4.09e-04 4.34e-04 1.14e-03 7.91e-05  
## 3704 2.64e-02 3.10e-02 6.88e-03 1.07e-02 5.08e-03 8.56e-03 2.96e-03  
## 3705 -5.86e-04 -2.63e-03 -4.15e-04 2.64e-05 -1.41e-04 7.91e-05 -3.37e-04  
## 3706 4.06e-04 2.62e-04 -3.42e-04 -3.43e-04 4.49e-04 -4.00e-04 4.15e-04  
## 3707 -1.26e-03 1.53e-03 1.71e-03 -1.57e-03 1.80e-03 -1.62e-03 -2.80e-03  
## 3708 3.45e-02 -6.31e-03 -2.21e-02 -1.19e-02 -2.06e-02 -7.25e-03 -3.14e-02  
## 3709 5.37e-03 -5.86e-03 3.55e-03 3.05e-03 5.12e-03 -7.81e-03 -3.58e-03  
## 3710 -2.65e-02 1.95e-04 1.24e-02 4.44e-03 1.51e-02 4.88e-03 3.08e-02  
## 3711 -1.03e-02 5.67e-03 1.85e-02 -1.06e-03 -8.74e-03 -3.64e-03 8.85e-03  
## 3712 -4.85e-03 1.30e-02 5.21e-03 6.82e-03 -1.32e-02 5.72e-03 2.43e-03  
## 3713 4.01e-03 -3.62e-03 1.71e-02 -2.00e-02 1.70e-02 1.03e-02 -8.15e-03  
## 3714 -4.74e-04 -1.31e-03 -2.83e-04 -2.14e-04 -1.83e-04 -1.30e-04 -5.04e-04  
## 3715 -2.48e-03 3.80e-03 3.12e-03 -3.96e-03 -5.31e-03 3.25e-03 9.32e-04  
## 3716 5.44e-04 2.73e-02 7.06e-03 8.49e-03 8.43e-03 8.85e-03 1.06e-02  
## 3717 8.02e-04 -2.96e-03 -4.03e-03 -3.30e-03 3.37e-03 -3.79e-03 2.16e-03  
## 3718 -9.37e-04 -4.30e-03 -6.92e-04 -9.23e-04 -1.30e-03 -1.81e-03 -1.43e-03  
## 3719 -8.60e-04 4.45e-04 1.91e-05 6.26e-05 7.45e-05 2.01e-04 1.61e-04  
## 3720 1.37e-02 -8.00e-05 -8.55e-03 -6.43e-03 -6.40e-03 -5.57e-03 -1.32e-02  
## 3721 -1.67e-02 1.13e-02 -1.04e-02 -7.09e-03 -1.29e-02 3.31e-02 -2.43e-02  
## 3722 -8.88e-03 1.91e-03 -2.72e-03 2.24e-04 -5.83e-03 -2.42e-03 6.87e-03  
## 3723 -1.38e-03 -6.00e-04 1.12e-03 1.44e-03 1.08e-03 1.14e-03 1.44e-03  
## 3724 5.89e-04 5.08e-04 6.76e-07 3.16e-05 -9.61e-06 -6.89e-05 4.77e-05  
## 3725 -7.22e-03 5.87e-03 1.90e-02 -1.76e-02 2.04e-02 -1.95e-02 1.01e-02  
## 3726 -2.07e-02 -6.39e-04 1.24e-02 8.90e-03 9.82e-03 8.17e-03 1.91e-02  
## 3727 9.30e-03 4.40e-03 5.62e-03 -6.68e-03 -7.15e-03 -4.89e-03 -8.85e-03  
## 3728 3.26e-04 -5.34e-04 2.92e-03 -1.82e-03 3.17e-03 -1.95e-03 2.31e-03  
## 3729 1.46e-04 -7.78e-04 -1.13e-03 6.08e-03 -6.69e-04 -3.18e-03 1.82e-04  
## 3730 2.83e-02 -1.89e-03 1.03e-02 2.89e-03 1.32e-02 5.35e-03 -3.62e-02  
## 3731 -9.30e-04 -4.94e-03 -1.11e-03 -1.41e-03 -9.52e-04 -1.17e-04 -1.25e-03  
## 3732 -3.24e-02 -3.97e-02 -9.66e-03 -1.17e-02 -4.80e-03 -9.91e-03 -4.43e-03  
## 3733 -1.40e-04 4.11e-03 8.98e-03 7.41e-03 -1.49e-02 1.01e-02 -1.33e-02  
## 3734 8.58e-03 -3.32e-03 -1.00e-03 -1.03e-03 -7.41e-04 -8.37e-04 -1.33e-03  
## 3735 -2.22e-02 -1.62e-04 1.45e-02 1.20e-02 1.08e-02 8.59e-03 2.18e-02  
## 3736 -2.67e-04 1.64e-03 1.97e-04 7.87e-04 4.11e-04 8.27e-04 -4.34e-03  
## 3737 8.62e-03 -1.99e-02 -1.05e-02 -1.68e-02 -1.33e-02 -1.70e-02 -1.22e-02  
## 3738 7.98e-03 -3.44e-02 -1.65e-02 3.79e-02 -1.09e-02 -2.39e-02 -3.29e-03  
## 3739 -1.58e-02 -7.67e-05 -1.37e-02 1.26e-02 1.16e-02 1.16e-02 1.32e-02  
## 3740 1.25e-02 7.83e-03 2.27e-02 -1.09e-03 -9.83e-03 -5.74e-03 1.13e-02  
## 3741 1.47e-02 -2.15e-04 -8.53e-03 -6.65e-03 -6.93e-03 -5.07e-03 -1.31e-02  
## 3742 2.32e-02 1.24e-02 -2.11e-02 1.01e-02 3.62e-03 -2.37e-02 3.28e-03  
## 3743 -4.46e-04 5.90e-04 -5.28e-04 7.41e-04 -3.16e-04 -2.85e-04 -3.87e-04  
## 3744 -7.70e-03 1.20e-03 -1.57e-03 1.73e-03 -4.38e-03 -2.32e-04 7.15e-03  
## 3745 -5.55e-03 4.72e-03 5.91e-03 -2.10e-02 -1.60e-02 -1.66e-02 -1.58e-02  
## 3746 2.71e-03 -9.12e-03 1.14e-02 -9.99e-03 -4.70e-03 -9.87e-03 -2.93e-03  
## 3747 1.89e-03 -2.04e-03 -2.59e-03 1.51e-03 2.40e-03 1.46e-03 -1.76e-03  
## 3748 5.19e-03 1.09e-03 8.79e-03 1.18e-02 8.66e-03 -1.98e-02 6.88e-03  
## 3749 1.07e-04 -6.64e-03 -1.94e-03 -2.32e-03 -2.03e-03 -2.21e-03 -2.66e-03  
## 3750 -1.38e-02 7.04e-05 -6.99e-03 -4.09e-03 -5.25e-03 -3.27e-03 -1.13e-02  
## 3751 -6.43e-03 -1.47e-02 -1.39e-02 -1.36e-02 -1.09e-02 -1.31e-02 -1.07e-02  
## 3752 -1.99e-03 3.44e-03 2.38e-03 3.56e-03 -1.82e-03 -1.49e-03 3.35e-03  
## 3753 -3.15e-03 1.23e-02 5.51e-03 -1.49e-02 4.08e-03 8.77e-03 2.11e-04  
## 3754 -1.40e-02 5.23e-03 -5.37e-03 -1.17e-03 2.12e-02 -4.29e-03 1.61e-02  
## 3755 -1.85e-02 -7.43e-03 1.07e-02 7.63e-03 -3.66e-02 8.99e-03 1.99e-02  
## 3756 -8.60e-04 -1.55e-03 8.32e-04 1.01e-03 7.15e-04 -2.00e-03 9.95e-04  
## 3757 2.23e-02 2.89e-02 7.62e-03 8.46e-03 3.93e-03 6.92e-03 2.56e-03  
## 3758 1.36e-02 1.56e-03 -6.74e-03 -3.21e-03 -8.43e-03 -4.77e-03 1.72e-02  
## 3759 1.25e-02 -4.53e-03 -1.50e-03 -1.24e-03 -1.02e-03 -7.32e-04 -1.66e-03  
## 3760 1.83e-02 -8.08e-03 -2.83e-03 -3.75e-03 -3.36e-03 -4.12e-03 -3.83e-03  
## 3761 7.38e-03 -2.05e-02 -9.99e-03 3.91e-02 4.35e-02 -1.38e-02 -3.20e-03  
## 3762 3.55e-05 -5.96e-04 2.27e-03 -6.63e-04 5.85e-05 -4.29e-04 2.26e-04  
## 3763 4.60e-03 1.18e-03 -1.00e-02 9.66e-03 9.14e-03 5.32e-03 1.09e-02  
## 3764 9.68e-03 -5.55e-03 -7.60e-04 -2.61e-03 -2.48e-03 -3.86e-03 -2.01e-03  
## 3765 1.63e-03 1.25e-03 -6.68e-05 -4.07e-04 -3.50e-04 -3.55e-04 1.68e-04  
## 3766 1.19e-02 1.83e-03 -5.92e-03 -2.45e-03 -7.33e-03 -4.97e-03 1.77e-02  
## 3767 1.13e-02 1.26e-02 -3.99e-03 2.84e-02 -9.48e-03 -6.07e-03 1.20e-02  
## 3768 -6.58e-03 -1.73e-02 -1.62e-02 -1.92e-02 -1.40e-02 -1.61e-02 -1.16e-02  
## 3769 8.61e-03 1.58e-02 -1.06e-02 7.55e-03 -9.94e-03 9.04e-03 -9.29e-03  
## 3770 -9.16e-03 -1.25e-04 -1.70e-02 -5.24e-03 1.95e-02 -7.77e-03 1.04e-02  
## 3771 -8.80e-03 2.03e-02 8.28e-03 8.70e-03 8.19e-03 9.18e-03 -1.42e-02  
## 3772 1.34e-03 1.22e-03 -1.16e-04 -5.73e-04 -3.30e-04 -5.36e-04 3.26e-05  
## 3773 2.36e-02 2.74e-02 6.41e-03 9.81e-03 4.97e-03 8.00e-03 1.83e-03  
## 3774 -3.75e-02 -3.38e-02 2.82e-02 2.58e-02 3.08e-02 2.91e-02 5.76e-02  
## 3775 8.93e-04 -1.43e-03 -1.10e-03 -1.46e-03 9.21e-04 7.08e-04 -9.18e-04  
## 3776 -6.87e-04 -1.77e-03 -3.77e-04 -2.81e-04 -2.79e-04 -2.15e-04 -5.85e-04  
## 3777 2.29e-02 4.10e-04 1.44e-02 6.76e-03 1.31e-02 7.99e-03 -2.95e-02  
## 3778 1.58e-03 -1.02e-03 -6.10e-03 9.55e-03 -7.61e-03 9.72e-03 -3.28e-03  
## 3779 -8.45e-03 1.80e-03 -1.30e-02 -3.32e-03 1.75e-02 -5.92e-03 8.56e-03  
## 3780 -1.03e-02 3.25e-03 -4.54e-03 -5.58e-04 1.78e-02 -1.05e-03 -1.58e-02  
## 3781 1.26e-02 2.49e-03 1.60e-02 1.08e-02 1.09e-02 6.06e-03 1.76e-02  
## 3782 -1.73e-02 -2.22e-03 1.54e-02 1.03e-02 1.54e-02 -1.40e-02 -3.20e-03  
## 3783 5.95e-02 4.29e-02 1.75e-02 2.34e-02 3.65e-03 1.37e-02 1.39e-03  
## 3784 -3.55e-04 -5.81e-03 -1.59e-03 -2.05e-03 -1.84e-03 -2.18e-03 -2.42e-03  
## 3785 1.45e-03 2.47e-02 6.95e-03 3.70e-03 2.27e-03 -1.71e-03 7.54e-03  
## 3786 -2.06e-02 2.46e-04 1.28e-02 9.16e-03 9.85e-03 8.04e-03 1.82e-02  
## 3787 2.01e-02 -9.98e-04 -1.13e-02 -3.64e-03 -1.40e-02 -5.43e-03 1.02e-02  
## 3788 -5.02e-04 -5.88e-03 -1.44e-03 -1.85e-03 -1.89e-03 -2.14e-03 -2.41e-03  
## 3789 -4.97e-03 1.63e-02 -2.15e-02 8.46e-03 -2.47e-02 8.40e-03 4.35e-03  
## 3790 -2.47e-02 -1.68e-03 1.43e-02 7.08e-03 1.52e-02 9.93e-03 -2.75e-02  
## 3791 -3.38e-02 -4.45e-02 -1.20e-02 -1.35e-02 -5.73e-03 -1.07e-02 -3.94e-03  
## 3792 9.50e-03 1.05e-02 7.32e-03 -1.20e-02 -8.75e-03 1.05e-02 -9.09e-03  
## 3793 9.31e-03 -6.86e-03 1.78e-02 1.02e-02 2.03e-02 -2.74e-02 -8.06e-03  
## 3794 -4.84e-02 -1.39e-02 -2.56e-02 3.86e-02 5.15e-02 4.68e-02 -9.45e-03  
## 3795 2.42e-04 -5.11e-04 1.57e-03 -4.21e-04 -5.35e-04 -5.38e-04 1.47e-03  
## 3796 -1.60e-02 1.44e-02 2.35e-02 -8.51e-03 -9.04e-03 3.74e-02 -1.44e-02  
## 3797 1.14e-04 -6.62e-03 -1.94e-03 -2.32e-03 -2.03e-03 -2.21e-03 -2.66e-03  
## 3798 -8.33e-03 1.84e-03 1.59e-02 -4.48e-02 -5.17e-02 2.90e-02 1.90e-02  
## 3799 2.09e-02 -5.63e-03 -3.01e-02 1.00e-02 9.66e-03 6.84e-03 1.51e-02  
## 3800 1.33e-02 -4.94e-05 -6.98e-03 -3.52e-03 -5.37e-03 -2.15e-03 -1.05e-02  
## 3801 -2.29e-02 -3.52e-03 -2.66e-02 8.61e-03 9.31e-03 4.85e-03 1.48e-02  
## 3802 -1.30e-02 1.03e-02 2.32e-02 -3.15e-03 1.98e-02 -7.49e-03 9.93e-03  
## 3803 -1.73e-04 -5.29e-03 -1.19e-03 -1.23e-03 -1.65e-03 -1.89e-03 -1.87e-03  
## 3804 -2.22e-05 -3.28e-05 -3.31e-06 -4.29e-06 -4.00e-06 -6.81e-06 -1.12e-05  
## 3805 -4.63e-03 2.36e-02 6.76e-03 1.08e-02 5.16e-03 8.22e-03 3.38e-03  
## 3806 -1.99e-03 5.69e-03 5.63e-03 -1.59e-02 3.93e-03 -1.68e-02 1.77e-03  
## 3807 -1.04e-03 -3.98e-03 -8.95e-04 -1.28e-03 -7.79e-04 -3.53e-04 -1.11e-03  
## 3808 2.15e-04 2.14e-03 -1.78e-03 8.13e-03 -1.28e-03 9.57e-03 1.01e-03  
## 3809 -3.12e-03 -2.76e-03 2.43e-03 2.72e-03 1.79e-03 1.72e-03 2.85e-03  
## 3810 -1.44e-02 -4.32e-04 -6.82e-03 -4.20e-03 -4.77e-03 -3.21e-03 -1.07e-02  
## 3811 3.35e-03 4.19e-03 -3.52e-03 -3.64e-03 -3.50e-03 4.89e-03 3.98e-03  
## 3812 6.36e-04 4.99e-04 -3.94e-05 -1.91e-04 -1.17e-04 -2.22e-04 1.89e-05  
## 3813 1.39e-03 -3.70e-03 -2.15e-03 -3.87e-03 9.07e-03 -2.93e-03 -8.23e-04  
## 3814 -1.16e-03 1.27e-03 6.51e-03 -8.42e-03 5.38e-03 6.83e-03 3.64e-03  
## 3815 8.67e-04 -6.49e-03 -1.93e-03 -6.30e-03 -2.69e-03 -6.87e-03 -2.28e-03  
## 3816 -1.15e-02 -9.24e-04 -5.08e-03 -1.79e-03 -3.33e-03 -2.50e-04 -7.82e-03  
## 3817 2.75e-02 -1.70e-02 -3.99e-02 4.56e-03 -4.09e-02 7.87e-03 -2.91e-02  
## 3818 -5.95e-03 -5.47e-03 4.51e-03 3.16e-03 4.06e-03 3.38e-03 -9.37e-03  
## 3819 -6.98e-03 3.03e-02 6.63e-03 8.48e-03 8.26e-03 1.06e-02 1.31e-02  
## 3820 1.21e-03 8.82e-04 -1.60e-04 -5.40e-04 -2.58e-04 -4.11e-04 -8.69e-05  
## 3821 -3.30e-04 -3.91e-03 -9.49e-04 -3.30e-04 -3.95e-04 3.89e-04 -9.05e-04  
## 3822 2.59e-03 1.74e-03 -1.79e-04 -6.01e-04 -4.85e-04 -4.00e-04 3.03e-04  
## 3823 -6.90e-03 1.10e-03 1.92e-02 -6.82e-03 -2.05e-02 -6.80e-03 1.23e-02  
## 3824 -1.07e-02 6.00e-03 1.84e-02 6.25e-04 -6.70e-03 -2.33e-03 8.93e-03  
## 3825 -1.29e-02 5.65e-03 -1.40e-02 3.23e-02 -1.71e-02 -1.13e-02 -2.56e-02  
## 3826 6.32e-03 7.75e-03 -6.65e-03 6.25e-03 7.33e-03 -7.30e-03 -6.57e-03  
## 3827 2.63e-02 2.35e-02 4.60e-03 5.76e-03 -2.49e-02 1.10e-02 -2.33e-02  
## 3828 3.80e-02 -5.26e-02 -3.89e-02 3.89e-02 -4.21e-02 -4.59e-02 3.83e-02  
## 3829 -6.84e-04 -1.54e-03 -1.16e-04 1.04e-04 -1.29e-04 -6.78e-05 -2.60e-04  
## 3830 -4.88e-04 -7.87e-04 -5.90e-04 -7.42e-04 6.04e-04 6.26e-04 -3.38e-04  
## 3831 1.33e-02 2.19e-02 2.65e-02 -6.87e-03 1.85e-02 2.27e-02 6.90e-03  
## 3832 1.64e-02 -6.75e-03 1.56e-02 5.43e-03 -2.67e-02 1.18e-02 -1.29e-02  
## 3833 -7.91e-04 -4.48e-03 -8.01e-04 -9.95e-04 -1.38e-03 -1.84e-03 -1.53e-03  
## 3834 5.11e-04 -1.60e-04 9.63e-06 -1.59e-05 4.19e-05 -7.50e-05 -6.38e-05  
## 3835 -1.02e-02 2.15e-03 2.23e-02 -3.33e-03 -1.62e-02 -4.19e-03 1.48e-02  
## 3836 1.40e-02 1.80e-03 1.53e-02 8.90e-03 2.19e-02 9.77e-03 -1.50e-02  
## 3837 1.51e-02 -1.50e-03 -8.05e-03 -6.47e-03 -7.72e-03 -2.68e-03 -1.18e-02  
## 3838 -3.96e-02 -1.53e-02 -2.54e-02 3.92e-02 3.04e-02 2.94e-02 3.10e-02  
## 3839 1.44e-02 5.29e-03 -8.53e-03 -6.08e-03 2.82e-02 -6.91e-03 -1.58e-02  
## 3840 -6.72e-03 2.58e-02 8.52e-03 1.08e-02 4.91e-03 8.44e-03 4.57e-03  
## 3841 -7.73e-04 -7.75e-03 -2.06e-03 -3.70e-03 -2.83e-03 -3.09e-03 -2.99e-03  
## 3842 -3.84e-03 1.98e-02 -1.99e-02 1.02e-02 4.26e-03 8.66e-03 1.82e-03  
## 3843 -7.95e-03 1.57e-02 1.80e-02 3.19e-02 1.18e-02 -5.15e-02 4.93e-03  
## 3844 4.79e-04 -2.44e-04 5.51e-04 4.98e-04 3.68e-04 2.81e-04 4.72e-04  
## 3845 -2.48e-04 -2.24e-04 1.36e-05 4.15e-05 1.03e-05 6.88e-05 2.93e-05  
## 3846 -1.76e-04 -8.49e-03 -2.44e-03 -4.02e-03 -2.96e-03 -2.97e-03 -3.34e-03  
## 3847 6.81e-03 4.34e-03 1.33e-02 1.01e-02 9.71e-03 5.71e-03 1.09e-02  
## 3848 5.08e-03 -1.42e-02 -8.12e-03 -1.45e-02 1.40e-02 -1.47e-02 -6.66e-03  
## 3849 -1.49e-03 1.80e-03 -1.67e-03 2.01e-03 1.54e-03 -2.39e-03 -2.85e-03  
## 3850 1.94e-03 -7.69e-03 -4.47e-03 1.03e-02 -4.94e-03 -1.28e-02 -9.82e-04  
## 3851 -4.02e-04 -6.17e-03 -1.58e-03 -2.00e-03 -1.59e-03 -1.89e-03 -2.52e-03  
## 3852 -1.59e-03 2.89e-04 -1.91e-03 -2.08e-03 -1.59e-03 -1.45e-03 -1.86e-03  
## 3853 3.85e-03 -4.78e-04 -7.68e-03 1.03e-02 -9.75e-03 1.16e-02 -8.63e-03  
## 3854 1.28e-03 8.71e-03 1.06e-02 9.97e-03 7.26e-03 8.15e-03 7.28e-03  
## 3855 -1.59e-02 -1.14e-02 -1.43e-02 1.40e-02 -8.76e-03 -1.08e-02 -1.90e-04  
## 3856 -2.86e-03 8.76e-04 -2.46e-04 -3.90e-04 -2.38e-04 -5.95e-05 -4.87e-05  
## 3857 2.27e-02 -1.68e-02 -3.85e-02 1.52e-03 -3.22e-02 8.95e-03 -1.72e-02  
## 3858 -1.17e-02 4.53e-03 2.14e-02 -5.42e-03 -1.58e-02 -8.44e-03 1.20e-02  
## 3859 1.73e-02 -7.19e-03 -2.37e-03 -2.89e-03 -3.25e-03 -3.39e-03 -3.25e-03  
## 3860 6.31e-03 -1.48e-03 -2.03e-04 5.60e-04 3.43e-04 8.22e-04 2.08e-04  
## 3861 -6.83e-03 1.53e-02 -1.37e-02 8.99e-03 -9.54e-03 1.43e-02 -8.78e-03  
## 3862 2.57e-02 5.70e-03 2.65e-02 -1.48e-02 -1.26e-02 -1.02e-02 -1.96e-02  
## 3863 5.14e-03 2.51e-03 -1.25e-02 1.07e-02 1.94e-02 1.32e-02 -6.02e-03  
## 3864 -2.48e-03 9.14e-05 6.32e-03 -7.26e-03 -4.51e-03 6.90e-03 -4.55e-03  
## 3865 -1.03e-02 5.95e-03 -2.23e-03 1.04e-03 1.41e-02 -3.13e-03 6.89e-03  
## 3866 -1.98e-02 -2.29e-02 1.19e-02 1.08e-02 -2.24e-02 -3.42e-02 -8.34e-03  
## 3867 1.67e-04 9.78e-05 -1.12e-03 5.39e-04 -1.14e-03 7.48e-04 -7.89e-04  
## 3868 -6.14e-03 2.64e-02 7.66e-03 9.52e-03 4.29e-03 8.42e-03 2.96e-03  
## 3869 -1.12e-02 1.83e-02 2.07e-02 -1.88e-02 1.62e-02 3.19e-02 4.09e-03  
## 3870 1.83e-02 -8.33e-03 -3.21e-02 4.97e-03 2.02e-02 1.05e-02 -1.69e-02  
## 3871 -2.40e-03 6.07e-03 -1.83e-02 3.72e-02 2.54e-02 -3.04e-02 2.05e-02  
## 3872 -6.57e-05 6.98e-04 4.83e-05 3.82e-04 -1.65e-05 2.35e-04 -1.39e-04  
## 3873 9.13e-03 -4.61e-02 -1.25e-02 -1.95e-02 -9.98e-03 -1.67e-02 -5.53e-03  
## 3874 1.58e-02 1.26e-02 8.00e-03 9.80e-03 -1.27e-02 -1.43e-02 -1.01e-02  
## 3875 -5.56e-03 -6.87e-03 4.34e-03 2.72e-03 -8.43e-03 4.57e-03 -4.15e-03  
## 3876 -5.89e-03 2.63e-02 7.19e-03 9.16e-03 4.54e-03 8.75e-03 3.01e-03  
## 3877 2.07e-02 -1.21e-02 1.35e-02 -3.66e-02 8.80e-03 8.72e-03 1.45e-02  
## 3878 1.91e-02 -1.15e-02 1.45e-02 9.27e-03 1.55e-02 -4.04e-02 -2.47e-02  
## 3879 2.59e-02 5.74e-04 1.26e-02 7.77e-03 8.87e-03 5.95e-03 1.99e-02  
## 3880 -7.21e-04 -1.38e-03 -2.20e-03 -8.31e-03 1.31e-02 8.98e-03 -2.96e-03  
## 3881 1.98e-02 6.00e-03 2.82e-02 -1.26e-02 -1.13e-02 -9.60e-03 -1.62e-02  
## 3882 1.42e-02 1.79e-03 -6.90e-03 -6.34e-03 -1.06e-02 -6.91e-03 -2.01e-02  
## 3883 -5.27e-04 -2.66e-03 -6.41e-04 -3.87e-04 -2.66e-04 1.68e-05 -8.51e-04  
## 3884 -2.67e-03 1.21e-02 7.48e-03 -4.72e-02 8.00e-03 2.95e-02 -1.58e-03  
## 3885 5.33e-03 7.68e-03 4.36e-03 -4.96e-03 3.66e-03 4.99e-03 1.56e-03  
## 3886 -8.11e-04 -4.74e-03 -1.05e-03 -1.47e-03 -1.45e-03 -1.79e-03 -2.14e-03  
## 3887 -7.88e-03 2.57e-02 -2.47e-02 9.25e-03 4.16e-03 7.04e-03 2.34e-03  
## 3888 8.06e-05 -6.70e-04 -7.98e-05 -3.21e-04 7.40e-05 -2.30e-04 1.60e-04  
## 3889 -2.62e-03 8.86e-04 -5.43e-05 -2.46e-04 -1.90e-04 -1.45e-04 1.14e-04  
## 3890 -5.08e-04 -7.94e-04 -2.55e-05 4.50e-05 -8.39e-05 -1.19e-04 -1.44e-04  
## 3891 -4.36e-05 3.96e-04 6.71e-06 2.17e-04 -8.24e-06 1.42e-04 -1.08e-04  
## 3892 3.30e-03 -1.47e-03 -2.04e-04 -3.37e-04 -3.16e-04 -5.28e-04 -6.35e-04  
## 3893 5.39e-03 -1.23e-02 -1.19e-02 -2.35e-02 -1.29e-02 9.69e-03 -9.02e-03  
## 3894 -4.93e-04 -8.36e-04 -4.19e-05 4.51e-05 -9.34e-05 -1.12e-04 -1.69e-04  
## 3895 2.59e-04 -1.25e-03 -1.05e-03 6.03e-03 -2.17e-04 -2.23e-03 8.45e-04  
## 3896 4.93e-03 6.44e-04 9.12e-03 -1.79e-02 7.67e-03 1.08e-02 4.57e-03  
## 3897 -1.28e-02 -4.96e-03 -5.98e-03 9.35e-03 8.24e-03 -1.37e-02 9.91e-03  
## 3898 -1.10e-03 -3.01e-03 -4.33e-04 -7.50e-04 -9.09e-04 -1.51e-03 -1.02e-03  
## 3899 -5.58e-03 -1.29e-02 -1.35e-02 -1.38e-02 -1.62e-02 -1.55e-02 3.62e-02  
## 3900 1.41e-02 6.75e-04 -7.29e-03 -5.90e-03 -1.01e-02 -6.22e-03 2.01e-02  
## 3901 -1.64e-02 -1.42e-02 1.26e-02 1.11e-02 -2.06e-02 -2.72e-02 -1.66e-02  
## 3902 9.89e-04 -5.64e-03 -2.22e-03 -4.95e-03 -1.11e-03 -3.80e-03 -3.59e-04  
## 3903 -3.95e-04 -1.17e-03 -2.43e-04 2.65e-04 3.19e-04 8.39e-04 -7.16e-05  
## 3904 -9.69e-03 7.32e-03 1.94e-02 -1.34e-02 2.02e-02 -1.71e-02 8.85e-03  
## 3905 1.35e-02 -3.74e-02 -1.90e-02 3.99e-02 -1.30e-02 -2.38e-02 -2.28e-03  
## 3906 3.98e-04 -1.28e-03 -4.27e-04 -6.95e-04 -1.38e-04 -5.12e-04 6.06e-05  
## 3907 -2.94e-03 1.05e-03 -1.32e-04 -2.14e-04 -2.92e-04 2.26e-05 2.23e-04  
## 3908 -6.28e-04 -1.14e-03 -1.62e-04 -1.50e-04 -1.58e-04 -1.86e-04 -3.50e-04  
## 3909 -1.08e-02 -2.16e-03 9.36e-03 -6.27e-03 -6.17e-03 7.53e-03 8.50e-03  
## 3910 -1.86e-02 1.25e-03 1.26e-02 1.30e-02 1.11e-02 8.50e-03 1.86e-02  
## 3911 1.50e-02 -1.30e-03 -8.24e-03 -6.37e-03 -7.45e-03 -3.38e-03 -1.13e-02  
## 3912 1.98e-02 9.76e-04 -1.14e-02 -5.67e-03 -1.54e-02 -8.25e-03 9.80e-03  
## 3913 -1.10e-02 2.26e-03 -3.47e-03 2.75e-04 -7.29e-03 -3.07e-03 9.60e-03  
## 3914 3.73e-04 3.13e-04 5.36e-03 4.96e-03 -1.70e-03 -2.40e-03 5.39e-03  
## 3915 1.35e-02 6.38e-03 -1.29e-02 -1.24e-02 -1.56e-02 6.93e-03 1.84e-03  
## 3916 4.49e-04 7.44e-03 2.02e-02 8.76e-03 1.98e-02 6.74e-03 -8.31e-03  
## 3917 1.17e-02 1.86e-03 -5.30e-03 -2.98e-03 -7.58e-03 -4.66e-03 -1.76e-02  
## 3918 -1.02e-02 -1.56e-02 -2.96e-02 -2.35e-02 -2.84e-02 -2.09e-02 -4.34e-02  
## 3919 8.38e-03 9.04e-03 -8.31e-03 8.73e-03 7.39e-03 -8.63e-03 7.63e-03  
## 3920 3.96e-03 6.49e-04 -1.80e-02 9.76e-03 -1.99e-02 9.12e-03 6.85e-03  
## 3921 2.60e-03 2.97e-02 8.48e-03 1.38e-02 9.69e-03 1.22e-02 1.05e-02  
## 3922 -2.69e-02 -8.88e-03 1.40e-02 6.12e-03 -2.71e-02 1.26e-02 -1.21e-02  
## 3923 -4.65e-03 1.03e-02 4.57e-03 5.35e-03 3.31e-03 4.41e-03 2.47e-03  
## 3924 9.23e-04 -3.22e-03 7.26e-03 -3.45e-03 -1.34e-03 -3.31e-03 -1.21e-04  
## 3925 -4.37e-03 1.79e-03 -1.13e-02 -1.12e-02 5.92e-03 -1.19e-02 6.26e-03  
## 3926 -1.28e-02 2.60e-03 -4.80e-03 -1.47e-03 2.21e-02 -9.01e-04 -9.51e-03  
## 3927 -4.25e-04 -5.53e-03 -1.46e-03 -1.89e-03 -1.59e-03 -1.92e-03 -2.41e-03  
## 3928 2.51e-03 -4.79e-03 -7.58e-03 -5.90e-03 5.58e-03 -6.63e-03 4.08e-03  
## 3929 2.64e-03 1.66e-03 -1.77e-04 -5.58e-04 -4.09e-04 -2.60e-04 2.39e-04  
## 3930 -2.34e-03 6.02e-04 4.10e-03 -1.68e-02 -1.66e-02 -1.51e-02 7.53e-03  
## 3931 -5.03e-04 -8.40e-03 -2.19e-03 -3.80e-03 -3.12e-03 -3.08e-03 -3.19e-03  
## 3932 -3.57e-03 1.44e-02 6.49e-03 -1.61e-02 4.57e-03 9.67e-03 1.32e-03  
## 3933 1.43e-02 1.08e-03 -8.06e-03 -7.92e-03 -1.08e-02 -7.79e-03 -2.22e-02  
## 3934 1.16e-03 8.57e-03 1.00e-02 9.12e-03 7.54e-03 7.89e-03 6.36e-03  
## 3935 -8.10e-04 -6.97e-03 -1.47e-03 -2.65e-03 -2.22e-03 -2.62e-03 -2.17e-03  
## 3936 7.70e-03 -4.37e-02 -1.07e-02 -1.43e-02 -6.47e-03 -1.39e-02 -4.14e-03  
## 3937 -6.09e-03 2.93e-02 6.91e-03 9.62e-03 5.12e-03 6.87e-03 1.41e-03  
## 3938 -6.09e-04 -2.73e-03 -4.00e-04 1.39e-04 -2.04e-04 1.28e-04 -3.75e-04  
## 3939 -1.28e-02 1.62e-02 -2.06e-02 3.41e-02 -1.87e-02 3.95e-02 -1.14e-02  
## 3940 -1.17e-02 2.70e-02 -1.30e-02 3.97e-02 2.91e-02 3.34e-02 2.77e-02  
## 3941 -3.13e-03 9.12e-03 5.48e-03 -1.45e-02 -1.81e-02 9.25e-03 2.09e-03  
## 3942 -1.54e-02 4.95e-03 1.24e-02 1.04e-02 1.42e-02 1.04e-02 -2.46e-03  
## 3943 1.62e-02 1.43e-02 7.66e-03 -1.42e-02 4.34e-03 8.14e-03 2.12e-03  
## 3944 -5.47e-03 -6.45e-03 -2.10e-02 -7.79e-03 -2.18e-02 -7.82e-03 1.12e-02  
## 3945 -5.12e-03 -4.70e-03 3.52e-03 2.80e-03 3.67e-03 2.81e-03 7.22e-03  
## 3946 2.97e-04 -5.56e-04 -5.96e-04 4.07e-03 -3.01e-04 -1.39e-03 3.95e-04  
## 3947 1.63e-02 2.85e-03 -9.54e-03 -7.56e-03 2.73e-02 -5.12e-03 -1.46e-02  
## 3948 2.07e-02 -3.49e-06 1.32e-02 -6.67e-04 2.16e-02 2.77e-03 -2.27e-02  
## 3949 -1.39e-03 9.07e-03 1.12e-02 7.19e-03 1.60e-02 1.01e-02 -1.81e-02  
## 3950 -1.13e-02 9.16e-03 1.91e-02 5.02e-04 1.57e-02 -3.20e-03 7.84e-03  
## 3951 4.56e-04 5.47e-03 1.36e-02 1.17e-02 -1.57e-03 1.36e-02 1.23e-03  
## 3952 -1.46e-02 -1.55e-03 -1.16e-02 -7.23e-03 -8.91e-03 -4.48e-03 -1.42e-02  
## 3953 -5.19e-03 8.86e-03 4.84e-03 5.02e-03 -5.09e-03 5.46e-03 5.64e-03  
## 3954 -3.94e-03 2.21e-02 5.37e-03 8.29e-03 -2.39e-02 1.07e-02 -2.69e-02  
## 3955 4.19e-03 5.19e-03 -2.13e-02 1.02e-02 7.08e-03 9.31e-03 6.58e-03  
## 3956 -9.18e-03 -3.37e-04 -4.40e-03 -8.97e-04 -5.81e-03 -3.34e-04 -1.30e-02  
## 3957 2.63e-03 1.73e-03 -2.98e-04 -6.41e-04 -4.11e-04 -5.48e-04 2.72e-04  
## 3958 4.68e-05 -2.24e-04 7.97e-04 -1.68e-04 1.98e-05 -1.37e-04 8.41e-05  
## 3959 3.19e-03 2.89e-04 -1.14e-02 1.19e-02 -1.00e-02 1.42e-02 -3.70e-03  
## 3960 -6.94e-05 3.32e-04 7.36e-05 3.14e-04 -1.16e-03 2.57e-04 2.28e-05  
## 3961 -8.93e-04 -1.64e-03 -2.89e-04 -1.46e-04 -2.01e-04 -3.09e-04 -5.14e-04  
## 3962 3.22e-03 2.02e-03 -2.75e-04 -6.81e-04 -5.40e-04 -3.24e-04 3.16e-04  
## 3963 -2.05e-02 -1.03e-03 1.27e-02 1.02e-02 1.00e-02 7.77e-03 1.96e-02  
## 3964 -1.92e-04 2.31e-04 2.55e-04 -2.08e-04 2.86e-04 -2.46e-04 2.53e-04  
## 3965 -5.86e-02 1.58e-02 3.09e-03 -2.19e-03 -2.72e-03 -7.60e-03 2.70e-03  
## 3966 -4.62e-03 7.10e-03 4.96e-03 -7.46e-03 2.77e-03 4.32e-03 8.83e-04  
## 3967 -5.71e-04 -4.80e-03 6.53e-03 -7.43e-03 -4.94e-03 -6.04e-03 -4.42e-03  
## 3968 1.04e-02 1.03e-02 6.15e-03 -1.13e-02 -8.63e-03 1.02e-02 -9.51e-03  
## 3969 -9.48e-03 -1.33e-03 -8.69e-03 -3.02e-03 -9.00e-03 -2.17e-03 -1.76e-02  
## 3970 -5.47e-03 -1.50e-02 -1.49e-02 -1.47e-02 -1.12e-02 -1.35e-02 -1.06e-02  
## 3971 -2.66e-03 -1.72e-03 -5.75e-04 -1.09e-03 -2.07e-04 -6.34e-04 6.54e-05  
## 3972 -2.33e-02 -4.76e-03 9.38e-03 5.30e-03 2.09e-02 1.15e-02 -1.94e-02  
## 3973 -6.90e-04 2.69e-04 -3.57e-05 1.85e-06 -9.01e-06 1.21e-05 -2.80e-06  
## 3974 -1.30e-02 1.04e-02 2.27e-02 -4.33e-03 2.02e-02 -9.41e-03 9.79e-03  
## 3975 2.34e-02 1.62e-03 1.19e-02 6.23e-03 1.63e-02 3.76e-03 3.16e-02  
## 3976 -3.24e-03 9.97e-04 -1.75e-04 -3.05e-04 -8.64e-05 -8.29e-05 9.01e-05  
## 3977 -6.39e-03 -1.44e-02 -1.40e-02 -1.38e-02 -1.12e-02 -1.34e-02 -1.04e-02  
## 3978 -4.01e-03 1.45e-03 -4.67e-04 -6.79e-04 -4.07e-04 -1.64e-04 1.14e-04  
## 3979 -5.96e-03 9.47e-03 -1.71e-02 -1.85e-02 3.34e-03 5.67e-03 -8.43e-04  
## 3980 -3.00e-04 9.27e-04 2.77e-04 3.92e-04 5.08e-04 6.34e-04 -1.84e-03  
## 3981 -1.34e-02 -1.08e-03 -9.53e-03 -6.02e-03 -6.59e-03 -4.27e-03 -1.29e-02  
## 3982 2.12e-03 5.80e-04 -1.74e-03 -1.92e-03 -2.00e-03 -1.71e-03 -2.79e-03  
## 3983 4.63e-03 -1.50e-03 9.22e-03 -2.34e-02 9.60e-03 1.15e-02 1.29e-02  
## 3984 -2.84e-02 -3.93e-03 1.45e-02 5.45e-03 2.22e-02 1.23e-02 -1.56e-02  
## 3985 -1.77e-02 1.63e-02 2.49e-02 -4.13e-03 -8.24e-03 2.94e-02 -1.89e-02  
## 3986 -1.57e-03 -2.81e-03 1.28e-03 1.36e-03 1.04e-03 -3.70e-03 1.59e-03  
## 3987 -6.15e-03 -7.91e-03 3.52e-03 1.76e-03 -8.87e-03 3.87e-03 -5.30e-03  
## 3988 -3.24e-03 -6.03e-03 1.71e-02 -1.74e-02 -3.29e-02 -1.87e-02 9.31e-03  
## 3989 2.94e-02 1.42e-02 -2.40e-02 3.69e-02 -1.58e-02 -1.61e-02 -2.09e-02  
## 3990 -5.47e-04 -8.79e-04 -1.03e-04 2.51e-04 2.49e-04 5.80e-04 3.79e-05  
## 3991 -1.89e-03 3.09e-03 -1.17e-03 2.04e-03 1.83e-03 2.08e-03 1.83e-03  
## 3992 -1.99e-03 2.96e-03 -3.19e-03 -3.07e-03 1.53e-03 2.36e-03 4.88e-04  
## 3993 1.37e-02 -8.62e-04 -7.50e-03 -4.06e-03 -5.32e-03 -2.31e-03 -1.04e-02  
## 3994 1.03e-02 1.51e-05 1.99e-02 6.64e-03 -2.26e-02 9.29e-03 -1.14e-02  
## 3995 4.41e-03 -5.77e-03 -7.02e-03 1.11e-02 -3.92e-03 -7.38e-03 3.80e-04  
## 3996 -4.52e-03 -3.94e-03 2.96e-03 3.02e-03 3.81e-03 2.71e-03 6.63e-03  
## 3997 -1.95e-04 -2.04e-04 -1.76e-06 7.63e-05 5.19e-05 1.20e-04 -4.56e-07  
## 3998 -5.36e-03 -4.20e-03 4.29e-03 3.57e-03 5.81e-03 4.14e-03 -4.21e-03  
## 3999 -5.45e-02 2.49e-02 1.03e-02 1.65e-02 1.27e-02 1.40e-02 1.15e-02  
## dfb.StrM dfb.Cntr dfb.PprB dfb.PymM dfb.MntC dfb.TtlC dffit  
## 1 7.32e-03 7.29e-03 -1.26e-02 -1.31e-03 -1.02e-02 1.84e-02 6.94e-02  
## 2 2.84e-03 1.76e-03 3.45e-03 5.65e-03 1.86e-03 -1.18e-03 1.68e-02  
## 3 3.92e-04 -2.74e-03 2.54e-02 -2.08e-02 1.63e-02 2.90e-03 -9.12e-02  
## 4 2.21e-03 -8.72e-04 2.03e-03 -2.72e-03 2.06e-03 -1.59e-03 1.02e-02  
## 5 -1.31e-02 -8.91e-03 8.60e-03 -7.97e-04 -2.06e-02 2.82e-05 -3.88e-02  
## 6 7.22e-03 1.66e-04 3.06e-03 -2.64e-03 -6.66e-03 1.52e-02 -3.58e-02  
## 7 2.48e-02 -5.33e-03 -6.54e-03 -1.12e-02 1.22e-02 -1.09e-02 7.63e-02  
## 8 5.45e-03 -2.27e-03 1.08e-02 9.70e-03 6.18e-04 9.49e-03 4.65e-02  
## 9 7.76e-03 1.83e-02 5.14e-03 -9.01e-03 -3.88e-03 1.31e-02 -6.51e-02  
## 10 -1.11e-03 1.48e-03 -2.66e-03 2.95e-03 -9.98e-04 7.07e-04 -1.25e-02  
## 11 1.61e-03 -4.25e-03 -1.11e-02 1.03e-02 -3.70e-03 2.02e-03 3.77e-02  
## 12 -8.03e-06 3.03e-03 5.85e-04 -1.49e-03 -8.75e-04 1.39e-03 5.08e-03  
## 13 -1.05e-03 1.00e-04 1.65e-02 -1.55e-03 3.67e-03 8.82e-03 3.77e-02  
## 14 1.25e-02 2.76e-02 4.25e-03 2.60e-02 1.23e-02 -4.75e-03 -7.78e-02  
## 15 -8.57e-03 -1.84e-02 -7.99e-03 5.93e-03 1.13e-02 -1.87e-02 6.26e-02  
## 16 -2.05e-04 -1.09e-03 -2.57e-03 4.45e-05 -1.69e-04 -2.95e-03 -7.22e-03  
## 17 -1.32e-04 -5.95e-04 4.48e-04 9.73e-04 1.18e-04 -8.72e-04 2.40e-03  
## 18 2.62e-04 1.88e-03 2.59e-03 -1.87e-03 1.00e-03 3.28e-03 9.66e-03  
## 19 -1.47e-02 2.63e-02 -2.76e-02 2.16e-02 5.92e-03 -2.29e-04 -1.16e-01  
## 20 -2.22e-02 -5.97e-03 -8.69e-03 6.62e-03 1.67e-02 -1.69e-02 7.03e-02  
## 21 2.65e-02 -5.69e-03 1.22e-02 1.56e-03 1.86e-02 -1.30e-02 -7.99e-02  
## 22 -6.74e-04 1.80e-03 1.96e-03 -6.86e-03 -3.97e-03 3.50e-03 1.31e-02  
## 23 1.04e-02 1.96e-02 -1.80e-02 -1.38e-02 4.51e-02 -3.84e-02 -9.06e-02  
## 24 6.24e-04 1.16e-03 -7.71e-04 5.81e-06 -5.59e-05 -9.54e-05 3.49e-03  
## 25 -3.55e-04 3.49e-03 -1.56e-03 4.79e-04 2.13e-04 8.47e-04 -6.51e-03  
## 26 3.99e-04 -5.93e-03 -6.11e-03 -9.81e-03 -4.35e-03 -2.25e-03 2.67e-02  
## 27 1.49e-02 2.38e-02 4.75e-03 -1.27e-02 2.42e-03 -7.85e-03 -7.67e-02  
## 28 -1.16e-02 -3.90e-03 -2.53e-02 4.21e-03 3.82e-03 -2.81e-02 -1.07e-01  
## 29 2.30e-03 -1.44e-03 2.92e-03 -3.35e-04 4.65e-03 -8.87e-04 -1.11e-02  
## 30 3.01e-02 1.11e-02 1.39e-02 -2.20e-02 1.77e-02 4.28e-04 -8.90e-02  
## 31 1.98e-03 1.36e-03 -8.23e-04 1.89e-04 5.70e-04 1.05e-03 5.07e-03  
## 32 -1.99e-02 7.65e-03 -7.20e-03 -1.95e-02 1.87e-02 -4.06e-02 1.16e-01  
## 33 7.87e-04 3.99e-06 9.34e-04 1.62e-03 4.46e-04 -9.23e-04 4.90e-03  
## 34 -2.40e-03 -4.41e-03 4.12e-03 -1.35e-02 -1.09e-02 9.19e-03 2.31e-02  
## 35 2.73e-03 5.33e-03 1.67e-02 -2.69e-02 -1.19e-02 1.56e-02 5.93e-02  
## 36 -5.95e-03 -2.05e-03 -3.57e-03 2.43e-03 -2.09e-03 -4.12e-03 -1.25e-02  
## 37 -1.34e-02 -7.79e-03 9.50e-03 -8.75e-04 -2.10e-02 2.59e-04 -4.03e-02  
## 38 1.50e-02 -1.19e-02 -6.66e-03 -3.48e-03 1.02e-02 5.77e-03 4.63e-02  
## 39 1.01e-02 1.25e-02 3.74e-03 -8.62e-03 -2.24e-03 1.24e-02 -5.60e-02  
## 40 9.05e-03 2.05e-03 3.35e-03 1.82e-02 -3.56e-03 1.41e-02 -4.44e-02  
## 41 3.21e-03 1.19e-02 7.53e-03 8.03e-03 1.99e-03 2.82e-03 3.39e-02  
## 42 -1.65e-03 -1.38e-03 1.31e-03 -1.04e-04 7.81e-04 -2.50e-04 -6.00e-03  
## 43 -3.63e-04 7.62e-04 1.56e-03 2.61e-03 -2.05e-03 2.30e-03 9.19e-03  
## 44 -3.06e-03 -1.66e-03 2.08e-03 -4.91e-05 1.57e-03 6.86e-04 -8.33e-03  
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## 46 -1.87e-02 -1.49e-02 -5.26e-03 1.05e-02 7.90e-03 4.18e-03 5.80e-02  
## 47 1.58e-03 2.31e-03 1.26e-02 9.31e-03 -4.40e-03 4.07e-03 4.14e-02  
## 48 -1.76e-02 -6.07e-03 5.37e-03 -8.70e-04 -1.60e-02 6.93e-03 -3.97e-02  
## 49 -2.32e-03 3.09e-03 -2.23e-03 -5.02e-04 -2.06e-03 4.90e-04 1.03e-02  
## 50 -3.53e-03 -1.61e-03 4.54e-03 -6.17e-04 -8.64e-05 1.43e-03 -1.50e-02  
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## 52 1.75e-02 5.38e-03 6.67e-03 1.05e-02 -1.33e-02 2.50e-02 -7.00e-02  
## 53 8.35e-03 -1.19e-02 -7.50e-03 -5.67e-03 -1.71e-02 -5.27e-03 5.73e-02  
## 54 -9.25e-03 -7.52e-03 4.24e-03 7.97e-03 -8.70e-03 8.38e-03 -4.99e-02  
## 55 1.20e-03 6.58e-04 6.92e-04 2.46e-05 7.50e-04 2.87e-04 -3.55e-03  
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## 57 -2.82e-03 -1.30e-03 -3.75e-03 -7.30e-04 9.37e-05 1.07e-02 3.17e-02  
## 58 -8.78e-04 -3.28e-03 -2.26e-03 6.08e-03 -4.37e-03 7.26e-03 2.86e-02  
## 59 -5.96e-06 1.41e-03 5.53e-04 -6.70e-04 -3.82e-04 -2.28e-05 3.62e-03  
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## 61 -6.18e-03 -1.90e-02 -3.86e-03 1.12e-02 -2.64e-03 5.74e-03 5.70e-02  
## 62 1.71e-02 -1.35e-02 -2.24e-03 -1.17e-02 -1.73e-03 9.71e-03 4.48e-02  
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## 67 1.33e-02 1.02e-02 -6.72e-03 8.09e-03 1.22e-02 2.16e-03 4.16e-02  
## 68 -3.69e-03 8.01e-03 4.92e-03 6.30e-03 -5.82e-05 -3.31e-03 2.07e-02  
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## 76 -2.85e-03 7.82e-04 1.47e-02 6.60e-03 -9.07e-04 4.63e-03 3.79e-02  
## 77 -9.12e-03 1.58e-03 6.45e-03 -1.97e-03 -1.78e-04 2.45e-03 2.30e-02  
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## 79 -2.03e-02 -1.03e-02 -6.94e-03 4.31e-03 -1.69e-02 -9.82e-03 5.69e-02  
## 80 -7.41e-04 -2.00e-03 -4.38e-03 -1.45e-03 -2.89e-03 -2.04e-03 1.13e-02  
## 81 -1.86e-02 -4.50e-03 6.76e-03 -3.90e-04 -1.77e-02 6.39e-03 -5.04e-02  
## 82 -1.71e-02 -9.28e-03 1.70e-02 5.16e-04 -3.29e-03 6.65e-04 6.66e-02  
## 83 -1.73e-02 -2.81e-03 9.85e-03 2.58e-02 -1.84e-02 5.04e-03 -6.57e-02  
## 84 -5.63e-03 -1.79e-02 -3.33e-03 -1.42e-02 -1.17e-06 -3.59e-03 4.59e-02  
## 85 -6.68e-06 3.30e-04 -4.63e-04 -4.04e-04 -5.01e-05 -2.41e-04 1.20e-03  
## 86 -2.50e-02 3.68e-03 -5.06e-03 -1.69e-02 1.38e-02 -3.66e-02 9.22e-02  
## 87 7.30e-03 4.14e-03 -6.21e-03 -9.33e-03 -3.12e-03 1.57e-03 3.09e-02  
## 88 -4.55e-05 -1.70e-03 -1.14e-03 3.06e-03 -6.28e-04 1.29e-03 -7.25e-03  
## 89 7.27e-06 5.26e-04 -8.07e-04 7.24e-04 6.17e-05 -3.71e-04 1.82e-03  
## 90 1.38e-02 -9.63e-03 1.59e-02 1.42e-02 1.56e-04 2.77e-03 5.82e-02  
## 91 1.33e-02 -9.36e-03 1.62e-02 -1.63e-02 1.59e-02 -1.46e-03 5.03e-02  
## 92 1.75e-02 3.79e-03 2.76e-02 4.07e-04 3.02e-02 -9.78e-03 8.21e-02  
## 93 1.10e-03 -7.94e-04 1.79e-03 -3.12e-03 1.78e-03 -7.58e-04 -7.06e-03  
## 94 -3.47e-03 -1.51e-02 -2.32e-03 -7.59e-04 -6.85e-03 7.80e-03 3.29e-02  
## 95 -6.50e-05 5.74e-03 -1.99e-03 -3.81e-03 -2.06e-03 7.56e-03 1.70e-02  
## 96 -1.24e-02 -1.08e-03 1.10e-02 -4.09e-03 -1.78e-02 9.38e-03 -5.77e-02  
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## 98 9.94e-03 2.35e-02 -1.87e-02 -1.60e-02 4.08e-02 -3.20e-02 -8.75e-02  
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## 100 1.10e-02 6.53e-03 3.49e-03 -6.82e-03 -1.36e-03 1.39e-02 -6.17e-02  
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## 103 2.19e-02 2.83e-03 1.58e-02 -1.36e-02 1.11e-02 -4.87e-04 4.56e-02  
## 104 8.16e-03 -2.29e-03 7.98e-03 -4.97e-03 6.72e-04 -4.84e-03 2.98e-02  
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## 108 5.11e-03 5.08e-03 6.44e-03 9.11e-03 6.86e-03 2.42e-04 3.10e-02  
## 109 -6.31e-03 1.00e-02 2.36e-02 2.12e-02 1.47e-02 3.12e-03 5.71e-02  
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## 113 2.39e-02 -1.26e-02 -4.96e-03 7.69e-03 7.90e-03 -3.02e-04 5.35e-02  
## 114 -1.79e-02 4.60e-03 5.78e-03 -1.01e-02 -1.03e-02 -6.91e-03 -6.11e-02  
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## 116 2.11e-02 -2.65e-03 2.43e-02 1.34e-03 3.11e-02 -2.85e-02 8.56e-02  
## 117 4.13e-03 9.99e-03 3.73e-03 -6.15e-03 5.50e-03 1.17e-03 2.19e-02  
## 118 1.25e-02 3.53e-03 5.58e-03 -3.63e-03 -1.13e-02 1.80e-02 -5.56e-02  
## 119 7.36e-06 2.09e-04 8.04e-05 2.12e-04 5.14e-05 -8.79e-05 5.39e-04  
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## 122 -2.27e-03 -5.75e-03 4.41e-03 3.99e-03 -9.34e-03 7.08e-03 2.01e-02  
## 123 -1.06e-02 -7.84e-03 7.10e-03 -1.14e-03 -1.41e-02 3.47e-03 -3.70e-02  
## 124 1.94e-03 -3.55e-03 8.44e-03 8.72e-03 -3.85e-04 3.21e-03 3.50e-02  
## 125 -1.97e-03 -5.97e-03 3.71e-03 3.62e-03 -8.20e-03 7.20e-03 2.09e-02  
## 126 1.71e-02 1.92e-02 -7.58e-03 4.13e-03 1.50e-02 -5.15e-04 4.04e-02  
## 127 -1.73e-02 3.51e-03 7.46e-03 -7.40e-03 -6.44e-03 1.74e-03 -6.14e-02  
## 128 1.11e-04 -1.91e-04 1.16e-03 7.59e-04 9.41e-05 1.63e-03 -3.69e-03  
## 129 -2.51e-03 -4.64e-03 4.16e-03 3.21e-03 -1.08e-02 9.06e-03 2.13e-02  
## 130 -6.44e-03 -2.64e-03 -3.59e-03 5.71e-03 -2.06e-03 -4.84e-03 3.29e-02  
## 131 -3.09e-02 4.60e-03 -8.91e-03 6.03e-03 2.03e-02 -9.08e-03 7.42e-02  
## 132 2.94e-02 3.00e-02 1.82e-02 1.42e-02 2.21e-02 1.87e-02 -1.17e-01  
## 133 -2.49e-03 -2.54e-03 -2.74e-03 2.62e-03 -2.89e-03 6.80e-04 -1.31e-02  
## 134 3.06e-02 -7.19e-03 1.40e-02 2.76e-03 1.26e-02 -2.18e-02 -7.60e-02  
## 135 -5.71e-03 -4.45e-03 -2.48e-02 3.32e-03 1.02e-02 -2.28e-02 -7.22e-02  
## 136 -4.76e-05 3.77e-03 -3.87e-03 -1.26e-03 -1.65e-03 -1.05e-03 9.83e-03  
## 137 1.24e-02 -4.72e-03 -9.64e-03 -2.16e-02 1.62e-02 9.02e-04 5.35e-02  
## 138 -3.58e-05 -5.65e-04 -1.42e-03 -4.88e-03 -2.78e-03 5.04e-03 -1.11e-02  
## 139 3.39e-05 -5.67e-04 1.37e-03 -1.33e-03 -3.42e-04 1.12e-03 -3.71e-03  
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## 144 6.11e-03 7.75e-04 -3.58e-03 -3.16e-04 4.17e-03 2.67e-03 2.08e-02  
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## 146 2.25e-03 1.20e-03 -7.77e-04 2.21e-06 7.16e-04 1.06e-03 4.53e-03  
## 147 -8.10e-04 4.58e-03 2.38e-03 2.69e-03 -5.64e-03 6.80e-03 1.57e-02  
## 148 -5.47e-03 -8.87e-03 1.94e-02 2.21e-03 1.50e-02 -2.10e-02 -6.41e-02  
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## 151 -2.02e-02 -1.06e-02 -9.93e-03 1.61e-03 -1.28e-02 -5.67e-03 5.86e-02  
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## 156 -2.57e-02 -1.94e-03 -9.35e-03 -3.07e-02 2.20e-02 -1.72e-03 7.77e-02  
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## 159 7.83e-03 1.40e-02 4.17e-03 6.66e-03 2.79e-03 -1.70e-03 2.97e-02  
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## 289 -1.10e-02 -8.76e-03 7.00e-03 -1.91e-03 -1.46e-02 6.35e-03 -5.41e-02  
## 290 -5.44e-03 -1.74e-03 2.03e-02 2.03e-02 1.72e-02 -2.01e-02 -7.16e-02  
## 291 -1.34e-02 -2.19e-03 5.54e-03 -5.42e-03 -1.18e-02 7.24e-04 -4.78e-02  
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## 293 1.47e-02 6.94e-03 1.21e-02 1.35e-02 2.39e-02 -9.83e-03 4.85e-02  
## 294 -2.33e-02 1.03e-02 -5.92e-03 3.79e-03 1.75e-02 -2.16e-02 9.39e-02  
## 295 -2.19e-03 -6.43e-03 3.88e-03 4.06e-03 -7.71e-03 4.46e-03 1.74e-02  
## 296 -2.47e-03 -4.67e-03 4.29e-03 3.29e-03 -1.07e-02 9.12e-03 2.16e-02  
## 297 3.34e-03 2.22e-03 1.98e-03 1.68e-03 3.78e-03 1.89e-03 8.77e-03  
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## 310 -6.71e-03 -1.66e-03 -5.09e-03 -1.66e-03 -7.33e-03 -1.23e-03 2.65e-02  
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## 356 2.00e-02 -2.94e-03 6.48e-03 2.41e-02 -1.48e-02 2.47e-03 -5.25e-02  
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## 390 2.62e-03 6.08e-04 1.13e-02 -2.03e-03 -3.99e-03 1.20e-02 4.10e-02  
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## 403 6.67e-03 5.27e-02 7.10e-03 2.21e-03 1.97e-02 -4.46e-02 -1.17e-01  
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## 405 5.94e-05 7.76e-03 -5.76e-03 3.24e-03 -2.31e-03 2.28e-03 1.31e-02  
## 406 1.51e-04 -4.47e-04 2.81e-03 7.20e-05 -9.67e-04 3.94e-03 -8.31e-03  
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## 448 -4.75e-05 6.83e-04 -1.20e-03 -1.01e-03 -2.96e-04 -7.38e-04 3.14e-03  
## 449 -1.52e-02 -5.24e-03 -1.02e-02 4.47e-03 2.37e-02 -2.91e-02 8.74e-02  
## 450 6.70e-05 -2.17e-03 -4.53e-03 3.35e-03 -2.52e-03 -5.68e-03 -1.60e-02  
## 451 -1.71e-04 -8.90e-04 5.31e-04 1.16e-03 -4.74e-05 -1.20e-03 2.98e-03  
## 452 -1.95e-02 -1.19e-02 -9.15e-03 1.31e-02 -1.07e-02 -8.43e-03 5.17e-02  
## 453 -5.69e-03 -1.53e-02 -3.07e-03 -6.39e-03 -5.49e-03 -5.68e-03 3.17e-02  
## 454 2.22e-02 9.19e-03 8.96e-03 -7.54e-03 -2.16e-02 -9.30e-04 -6.87e-02  
## 455 7.40e-06 -1.20e-04 -1.42e-04 -3.99e-04 -7.95e-05 3.89e-04 -9.61e-04  
## 456 -1.49e-02 -1.03e-02 -5.10e-03 8.99e-03 4.45e-03 -2.47e-02 7.17e-02  
## 457 1.64e-02 2.64e-03 1.17e-02 -1.23e-02 1.16e-02 -4.41e-03 3.96e-02  
## 458 -2.95e-03 5.77e-03 4.07e-03 -5.01e-03 -3.01e-05 -2.36e-03 1.68e-02  
## 459 -2.38e-03 -5.04e-03 4.22e-03 3.64e-03 -1.07e-02 8.55e-03 2.48e-02  
## 460 1.94e-02 1.60e-02 -1.28e-02 1.64e-03 2.73e-02 -7.82e-03 6.86e-02  
## 461 -2.09e-03 -5.63e-03 3.14e-03 2.93e-03 -7.28e-03 5.96e-03 1.89e-02  
## 462 -2.03e-02 -8.84e-03 -6.61e-03 -1.93e-02 -1.73e-02 -4.46e-03 5.77e-02  
## 463 7.93e-03 2.51e-03 -1.85e-02 -2.11e-03 -1.53e-02 2.08e-02 -5.05e-02  
## 464 1.06e-02 -2.40e-03 2.31e-03 -2.11e-03 -7.84e-03 1.80e-02 -3.98e-02  
## 465 2.32e-04 1.74e-03 -8.07e-04 -1.43e-03 -1.28e-03 3.13e-03 6.92e-03  
## 466 -4.15e-03 3.38e-03 -3.42e-03 6.91e-03 4.60e-03 -3.58e-03 2.00e-02  
## 467 8.31e-04 7.20e-03 8.90e-03 5.05e-03 1.07e-03 7.04e-03 2.63e-02  
## 468 1.18e-02 -5.32e-04 -2.60e-03 5.45e-03 1.71e-03 8.77e-03 2.62e-02  
## 469 -1.62e-05 -1.06e-03 -4.74e-04 -1.44e-03 -5.16e-04 7.22e-04 -4.02e-03  
## 470 4.58e-02 1.12e-02 -2.77e-02 -2.48e-03 7.42e-03 -8.62e-03 -9.43e-02  
## 471 -1.08e-03 3.50e-03 3.85e-03 4.86e-03 -5.99e-03 3.70e-03 2.16e-02  
## 472 3.97e-02 -5.22e-03 1.57e-02 1.45e-03 1.69e-02 -8.70e-03 -6.87e-02  
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## 477 -1.41e-02 -1.37e-02 -4.94e-03 4.49e-03 -1.35e-02 -3.98e-03 4.93e-02  
## 478 8.17e-03 -1.00e-02 -9.28e-03 1.80e-03 -6.17e-03 -1.42e-02 4.66e-02  
## 479 9.95e-03 2.18e-03 4.57e-03 -1.94e-03 -1.70e-02 1.97e-02 -5.03e-02  
## 480 -1.85e-02 4.02e-03 -2.80e-02 3.39e-02 -3.26e-02 -5.30e-03 -8.08e-02  
## 481 1.08e-04 4.03e-03 5.80e-04 1.38e-03 -7.78e-04 2.07e-03 7.03e-03  
## 482 4.33e-02 4.75e-02 2.18e-02 3.08e-02 1.02e-02 1.77e-02 -1.39e-01  
## 483 -2.78e-02 2.76e-03 -7.30e-03 6.60e-03 1.79e-02 -8.32e-04 7.94e-02  
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## 485 -2.06e-02 -1.22e-03 7.28e-03 -2.69e-03 -1.78e-02 1.31e-02 -6.16e-02  
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## 487 -2.24e-02 -2.23e-04 -4.48e-03 7.58e-03 1.50e-02 -3.34e-02 8.43e-02  
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## 500 -4.10e-03 1.00e-03 1.55e-02 -3.94e-03 9.09e-03 -1.20e-02 4.14e-02  
## 501 8.70e-03 1.03e-02 -3.97e-03 7.95e-04 5.71e-03 6.54e-03 2.73e-02  
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## 511 -4.06e-03 -1.88e-02 -3.85e-03 8.09e-03 -4.17e-03 7.79e-03 4.51e-02  
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## 525 1.34e-02 4.42e-04 8.40e-03 4.05e-03 8.63e-03 2.73e-03 2.90e-02  
## 526 1.44e-04 9.13e-04 -5.74e-04 3.06e-05 -5.98e-04 1.90e-03 4.42e-03  
## 527 1.30e-02 -8.87e-04 -3.08e-03 -8.30e-04 3.57e-03 4.24e-03 2.72e-02  
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## 529 1.65e-02 1.29e-02 -3.33e-03 -7.13e-03 1.35e-03 6.17e-03 3.44e-02  
## 530 1.18e-04 4.32e-03 -3.74e-03 -1.87e-03 -1.22e-03 1.30e-03 8.48e-03  
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## 532 3.24e-02 1.13e-02 -1.07e-02 7.16e-04 2.85e-02 -1.21e-02 7.38e-02  
## 533 7.81e-04 -3.50e-03 -2.26e-03 -2.05e-04 -4.06e-03 1.37e-02 3.46e-02  
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## 536 1.08e-02 -1.28e-02 -3.14e-03 -9.18e-03 4.21e-03 6.31e-03 4.03e-02  
## 537 1.80e-03 1.34e-03 -4.59e-03 5.28e-03 -6.75e-04 -1.88e-03 1.58e-02  
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## 540 -1.32e-04 -8.21e-04 8.80e-04 1.15e-03 6.16e-04 -2.40e-03 -4.88e-03  
## 541 -3.53e-02 -7.20e-04 -1.23e-02 1.80e-02 -1.82e-02 8.68e-04 6.70e-02  
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## 544 -2.55e-02 1.72e-02 2.00e-02 2.00e-02 1.06e-02 -1.07e-03 -1.13e-01  
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## 546 -3.35e-02 1.71e-02 8.82e-03 -3.02e-02 -2.24e-02 3.20e-03 -8.89e-02  
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## 551 -9.73e-05 -4.04e-04 3.83e-04 5.14e-04 1.58e-04 -1.03e-03 -2.21e-03  
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## 553 -4.26e-05 8.26e-03 -6.59e-03 -3.28e-03 -3.71e-03 1.60e-03 1.74e-02  
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## 558 1.66e-02 2.89e-03 2.43e-02 1.57e-03 3.06e-02 5.96e-04 5.20e-02  
## 559 3.51e-03 -7.85e-04 -1.15e-02 -8.23e-04 -7.90e-03 6.50e-03 4.09e-02  
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## 580 1.17e-02 4.01e-02 -1.86e-02 -2.20e-02 3.96e-02 -2.56e-02 -1.02e-01  
## 581 -1.43e-02 -4.42e-03 -2.16e-02 -1.64e-02 -3.45e-02 1.10e-02 -6.55e-02  
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## 591 -3.53e-04 -1.18e-03 9.72e-04 6.32e-04 -6.23e-04 -1.22e-03 4.74e-03  
## 592 1.90e-03 -1.73e-03 -2.28e-03 2.26e-04 2.18e-03 -7.84e-04 -8.68e-03  
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## 594 3.69e-03 3.42e-03 1.35e-02 9.79e-03 -3.49e-03 1.16e-02 4.08e-02  
## 595 -6.98e-03 2.32e-02 2.77e-02 -2.93e-02 2.45e-02 1.93e-02 -1.15e-01  
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## 598 -1.20e-02 8.10e-03 -5.09e-03 -2.12e-03 6.39e-03 6.45e-03 4.44e-02  
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## 602 1.03e-02 5.30e-04 -4.41e-03 -6.84e-03 7.85e-03 7.79e-03 3.12e-02  
## 603 -2.71e-04 1.28e-02 1.13e-02 5.15e-03 7.39e-03 -1.06e-03 3.12e-02  
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## 606 -6.30e-04 9.36e-04 7.59e-04 -3.27e-04 6.04e-05 -3.25e-04 3.31e-03  
## 607 -1.05e-06 8.84e-07 -1.82e-06 5.60e-07 -1.02e-06 3.55e-07 -8.23e-06  
## 608 -4.36e-04 -1.47e-03 -3.95e-03 2.79e-03 7.56e-05 -5.31e-03 -1.16e-02  
## 609 1.04e-02 5.20e-02 -4.78e-02 2.67e-02 2.09e-02 -3.27e-02 -1.29e-01  
## 610 -1.05e-02 -9.79e-04 1.99e-02 1.93e-04 8.43e-03 -2.00e-02 -9.81e-02  
## 611 -9.75e-03 3.37e-02 -2.56e-02 -3.16e-02 2.82e-03 2.91e-02 -1.33e-01  
## 612 2.72e-05 -5.33e-04 -1.58e-03 -5.36e-03 -3.43e-03 5.94e-03 -1.43e-02  
## 613 -6.26e-03 7.63e-03 -4.90e-03 -3.27e-03 -3.75e-03 -8.44e-04 5.16e-02  
## 614 -2.08e-03 2.00e-03 1.70e-03 -1.83e-03 -2.89e-04 -6.13e-05 7.42e-03  
## 615 2.81e-03 -2.91e-03 1.48e-02 1.34e-02 -6.16e-03 4.14e-03 4.59e-02  
## 616 8.25e-03 3.80e-03 -1.25e-02 -1.43e-02 -7.62e-03 2.19e-02 5.78e-02  
## 617 -3.70e-04 -2.67e-03 -2.36e-03 -3.97e-04 -6.57e-03 1.32e-02 3.56e-02  
## 618 5.07e-03 -1.01e-02 -3.00e-03 -5.66e-03 1.46e-03 3.09e-04 2.41e-02  
## 619 1.43e-02 8.59e-03 -9.46e-03 -3.36e-02 1.71e-02 -1.26e-02 7.65e-02  
## 620 -2.98e-02 4.36e-04 -1.13e-02 -3.03e-02 -1.72e-02 1.92e-02 8.91e-02  
## 621 8.20e-03 5.79e-04 -3.94e-03 4.92e-03 3.78e-03 3.50e-03 2.31e-02  
## 622 2.52e-02 7.53e-03 -8.02e-03 6.91e-03 1.55e-02 2.57e-03 4.92e-02  
## 623 9.25e-05 3.89e-03 7.88e-04 1.75e-03 -5.62e-04 1.21e-03 6.51e-03  
## 624 1.20e-02 2.91e-02 -2.15e-02 6.37e-02 5.08e-02 -3.73e-02 -1.10e-01  
## 625 -1.10e-02 -1.45e-02 -5.73e-03 7.42e-03 1.44e-02 -1.01e-02 7.05e-02  
## 626 1.61e-02 -6.69e-03 2.30e-02 6.04e-03 1.71e-02 -1.16e-02 6.52e-02  
## 627 -1.46e-03 -3.96e-04 1.54e-02 -3.30e-04 -3.49e-03 1.03e-02 3.44e-02  
## 628 9.19e-04 3.92e-03 5.64e-03 3.20e-03 -2.46e-06 5.76e-03 1.63e-02  
## 629 2.83e-02 2.05e-02 -4.00e-02 6.10e-03 -2.22e-03 -1.14e-02 -9.55e-02  
## 630 1.06e-02 3.17e-02 3.05e-03 2.49e-02 1.04e-02 5.84e-03 -9.33e-02  
## 631 1.03e-03 -7.95e-03 6.00e-03 -6.10e-03 -2.71e-03 -7.10e-04 2.22e-02  
## 632 4.29e-03 -7.22e-04 -6.72e-03 -1.09e-04 6.86e-03 -3.50e-03 -2.13e-02  
## 633 -7.10e-04 3.08e-03 2.31e-03 3.02e-03 -4.03e-03 4.26e-03 1.30e-02  
## 634 -6.91e-03 -7.19e-04 -5.72e-03 -9.47e-03 -1.97e-03 -2.23e-03 3.35e-02  
## 635 8.00e-03 4.75e-02 5.94e-03 -2.14e-02 1.91e-02 -3.42e-02 -1.08e-01  
## 636 -1.65e-04 2.05e-02 1.39e-02 -1.40e-02 1.63e-02 -2.61e-03 4.60e-02  
## 637 -5.84e-03 -3.32e-03 -5.20e-03 -6.26e-04 2.64e-04 1.08e-03 -2.27e-02  
## 638 7.69e-03 -7.80e-05 1.11e-02 2.67e-02 9.65e-03 -2.15e-02 -1.08e-01  
## 639 1.67e-02 -3.08e-03 5.04e-03 -2.96e-03 -1.10e-02 7.72e-03 -4.42e-02  
## 640 1.62e-04 -1.70e-04 -1.60e-03 2.56e-03 -1.10e-03 4.51e-03 -9.77e-03  
## 641 -2.76e-02 4.15e-02 -3.71e-02 -1.39e-02 7.57e-03 -7.96e-03 -1.27e-01  
## 642 9.43e-03 -3.97e-03 3.76e-03 -5.42e-04 -1.16e-02 1.17e-02 -3.44e-02  
## 643 -1.06e-02 7.54e-03 -4.99e-03 -1.29e-02 5.20e-03 3.03e-03 5.17e-02  
## 644 -3.52e-03 -9.96e-03 -1.05e-02 -3.27e-04 -1.55e-02 4.52e-03 3.15e-02  
## 645 9.23e-03 -6.88e-05 1.53e-03 -3.95e-03 -1.73e-03 6.44e-03 -3.86e-02  
## 646 -5.68e-03 -9.12e-03 1.95e-02 -1.68e-02 1.30e-02 -1.93e-02 -6.54e-02  
## 647 6.42e-03 -2.08e-03 -4.01e-03 3.39e-03 -3.39e-03 -9.07e-04 1.99e-02  
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## 651 -1.51e-02 -6.14e-03 9.88e-03 -1.42e-02 -2.02e-02 7.75e-03 -5.04e-02  
## 652 -6.55e-06 -2.74e-04 -8.33e-05 -2.49e-04 -5.45e-05 5.63e-05 -6.69e-04  
## 653 -3.00e-03 -8.94e-03 5.50e-03 5.99e-03 -1.10e-02 2.79e-03 2.51e-02  
## 654 1.19e-02 2.22e-02 -2.19e-02 7.52e-03 5.15e-02 -3.10e-02 -1.08e-01  
## 655 -1.65e-02 -7.58e-03 -7.15e-03 -1.50e-02 2.33e-02 -2.72e-02 8.14e-02  
## 656 2.88e-03 -1.45e-03 3.71e-03 -7.06e-05 5.38e-03 -1.43e-03 -1.28e-02  
## 657 -2.72e-03 -5.98e-04 2.66e-03 -2.90e-03 -2.17e-03 -8.81e-04 9.99e-03  
## 658 4.45e-03 -2.43e-02 -1.34e-02 -1.72e-02 3.26e-02 -4.48e-02 -1.08e-01  
## 659 -1.17e-03 -5.63e-03 2.14e-03 -4.32e-03 -2.46e-03 -1.25e-03 1.05e-02  
## 660 -1.18e-02 -8.34e-03 1.83e-02 -1.61e-02 1.07e-02 -3.30e-02 -8.17e-02  
## 661 3.54e-03 -7.11e-04 1.27e-02 1.08e-02 -2.33e-03 8.39e-03 3.76e-02  
## 662 -2.48e-03 -4.66e-03 4.24e-03 3.26e-03 -1.07e-02 9.09e-03 2.14e-02  
## 663 -3.85e-04 2.81e-04 -2.50e-04 4.30e-04 -6.60e-05 -3.33e-05 1.11e-03  
## 664 9.84e-05 -1.29e-03 -1.71e-03 3.96e-03 -1.51e-03 3.63e-03 -1.11e-02  
## 665 2.25e-02 7.78e-03 -1.44e-02 2.14e-02 2.94e-02 -1.04e-02 7.38e-02  
## 666 -1.48e-02 -7.10e-03 -2.24e-02 -9.04e-05 -2.82e-02 2.19e-05 -4.81e-02  
## 667 6.64e-03 -1.35e-02 -7.30e-03 -1.11e-02 1.04e-03 -4.92e-03 4.44e-02  
## 668 -7.10e-03 -3.58e-03 -2.48e-02 -1.93e-02 5.76e-03 -2.01e-02 -7.38e-02  
## 669 2.20e-04 -1.81e-04 -5.63e-04 3.81e-04 -1.17e-04 3.56e-04 -2.11e-03  
## 670 -1.41e-04 -5.45e-04 -7.41e-04 -6.86e-04 -2.07e-04 -5.79e-04 2.00e-03  
## 671 2.03e-05 -5.41e-04 -4.73e-04 2.83e-04 -1.15e-04 8.47e-04 -2.76e-03  
## 672 -1.01e-02 -8.22e-03 6.52e-03 -1.20e-02 -1.47e-02 4.43e-03 -3.67e-02  
## 673 -3.90e-03 -1.03e-02 -9.50e-03 -7.07e-03 -1.49e-02 1.18e-03 2.88e-02  
## 674 2.92e-02 3.00e-02 8.27e-03 -1.42e-02 2.00e-02 1.46e-02 -1.15e-01  
## 675 7.39e-04 6.53e-03 -2.99e-03 4.46e-03 -1.00e-03 7.45e-03 2.37e-02  
## 676 -4.38e-04 -1.17e-03 1.22e-03 -2.17e-03 -1.05e-03 -1.27e-03 5.63e-03  
## 677 3.10e-02 -6.19e-03 1.39e-02 2.00e-03 1.35e-02 -2.21e-02 -7.68e-02  
## 678 -1.98e-02 1.01e-03 4.39e-02 2.80e-02 3.72e-02 -6.57e-02 1.23e-01  
## 679 1.15e-02 -9.91e-03 1.83e-02 -1.39e-02 9.68e-03 4.53e-03 4.58e-02  
## 680 2.07e-02 -2.38e-03 -2.12e-02 -3.09e-04 -2.60e-02 8.84e-03 -5.93e-02  
## 681 2.12e-04 -2.50e-04 3.23e-04 3.44e-04 2.47e-04 -1.74e-04 -1.49e-03  
## 682 7.95e-03 -5.97e-03 -1.04e-02 -1.06e-02 -9.10e-03 -5.17e-03 4.85e-02  
## 683 -3.73e-03 6.67e-03 -4.67e-03 -4.14e-03 -5.54e-04 4.90e-04 5.77e-02  
## 684 1.92e-02 1.03e-02 2.76e-02 1.84e-02 3.87e-02 -2.68e-03 6.33e-02  
## 685 3.96e-03 -7.71e-04 -1.15e-02 -3.94e-04 -7.63e-03 6.73e-03 4.19e-02  
## 686 -9.16e-04 -1.97e-03 -3.67e-03 -3.84e-03 -2.77e-03 -2.82e-03 1.11e-02  
## 687 -1.26e-03 -6.37e-03 2.10e-02 1.33e-03 2.25e-02 -1.15e-02 -8.89e-02  
## 688 4.12e-03 1.42e-03 6.48e-03 9.05e-03 6.89e-03 -4.30e-03 2.72e-02  
## 689 -1.50e-02 -1.50e-02 2.02e-02 -1.47e-02 6.73e-03 6.56e-03 5.14e-02  
## 690 -3.24e-03 -4.42e-03 -1.18e-02 4.57e-03 -1.66e-02 1.18e-02 2.93e-02  
## 691 -9.76e-03 6.12e-04 -4.78e-03 -6.72e-03 -3.80e-03 -3.18e-03 2.25e-02  
## 692 1.24e-04 4.90e-04 -3.43e-04 3.14e-04 2.99e-05 4.16e-04 -1.94e-03  
## 693 -1.09e-02 -7.74e-03 6.53e-03 1.01e-02 -1.34e-02 1.94e-03 -3.86e-02  
## 694 -1.58e-03 4.02e-03 -9.28e-03 6.72e-03 -9.09e-03 2.80e-03 2.68e-02  
## 695 -3.01e-03 -4.80e-03 -1.20e-02 5.40e-03 -1.72e-02 1.21e-02 3.47e-02  
## 696 9.45e-04 -1.05e-03 1.16e-03 1.32e-03 2.49e-03 -1.26e-03 -6.23e-03  
## 697 -9.72e-03 1.47e-03 2.32e-02 1.55e-04 1.56e-02 -1.22e-02 -8.89e-02  
## 698 1.98e-02 8.66e-03 -4.50e-03 -1.38e-02 7.52e-03 6.66e-03 5.31e-02  
## 699 -4.65e-03 -1.88e-03 5.36e-03 -6.87e-04 5.40e-05 6.45e-05 -1.79e-02  
## 700 2.79e-03 2.06e-03 -1.72e-03 -1.66e-03 -1.08e-03 5.75e-04 8.70e-03  
## 701 2.41e-02 -1.11e-02 2.61e-02 6.53e-03 1.37e-02 4.40e-04 5.88e-02  
## 702 -2.49e-02 -5.89e-03 -7.50e-03 7.74e-03 1.21e-02 4.39e-04 6.26e-02  
## 703 -3.14e-03 -4.85e-03 -1.18e-02 5.06e-03 -1.65e-02 1.15e-02 2.93e-02  
## 704 1.60e-03 1.48e-03 1.23e-02 9.36e-03 -4.19e-03 3.79e-03 4.01e-02  
## 705 -1.70e-02 8.87e-03 1.41e-02 3.27e-02 -2.34e-02 8.33e-03 -8.79e-02  
## 706 -2.58e-03 -3.50e-03 4.40e-03 -6.83e-03 -2.05e-03 2.52e-03 -1.64e-02  
## 707 -1.10e-02 1.84e-02 -3.81e-03 -2.39e-02 4.01e-03 -1.05e-02 7.73e-02  
## 708 1.83e-02 -7.29e-03 -9.26e-03 -7.32e-03 1.54e-02 1.85e-03 5.69e-02  
## 709 -1.54e-02 -1.46e-02 1.60e-02 -5.82e-03 -1.30e-02 -9.76e-03 5.02e-02  
## 710 1.09e-02 2.01e-02 -1.78e-02 -1.38e-02 4.67e-02 -3.92e-02 -9.17e-02  
## 711 2.03e-02 -9.54e-03 -1.04e-02 2.05e-02 2.20e-02 -8.57e-03 6.94e-02  
## 712 -6.01e-05 7.99e-04 -1.37e-03 -2.12e-04 -3.15e-04 -1.11e-03 3.72e-03  
## 713 1.48e-02 -9.19e-03 -1.20e-02 2.00e-02 2.51e-02 -1.68e-02 7.80e-02  
## 714 3.53e-05 -1.78e-04 -8.13e-04 -2.39e-03 -8.48e-04 2.86e-03 -5.77e-03  
## 715 1.89e-02 -1.34e-02 -5.55e-03 -4.36e-03 2.07e-03 6.13e-03 5.08e-02  
## 716 2.74e-04 -2.22e-04 -7.35e-04 4.87e-04 -1.56e-04 4.37e-04 -2.73e-03  
## 717 -2.38e-02 -7.88e-03 -6.14e-03 -2.52e-02 1.00e-02 1.50e-03 6.55e-02  
## 718 -1.51e-02 -1.29e-02 -8.99e-03 -9.54e-03 -1.23e-02 -1.81e-03 6.58e-02  
## 719 1.44e-02 -1.56e-02 -3.74e-03 2.04e-04 -7.39e-04 1.10e-02 4.83e-02  
## 720 -5.94e-04 3.48e-03 1.92e-03 2.46e-03 -4.51e-03 6.30e-03 1.53e-02  
## 721 1.33e-05 -9.96e-04 -1.70e-03 8.27e-04 -2.35e-03 4.61e-03 -1.10e-02  
## 722 1.58e-02 -3.21e-03 5.15e-03 -2.20e-03 -1.30e-02 8.30e-03 -4.35e-02  
## 723 -5.49e-03 -7.43e-03 1.97e-02 1.68e-03 1.54e-02 -2.08e-02 -6.50e-02  
## 724 1.05e-02 5.36e-03 1.68e-03 -6.88e-03 1.11e-03 9.05e-04 -4.81e-02  
## 725 -3.84e-03 -6.24e-03 -1.21e-02 7.18e-03 -1.99e-02 9.39e-03 4.19e-02  
## 726 1.99e-04 7.99e-03 2.04e-03 3.96e-03 -1.83e-03 1.42e-03 1.50e-02  
## 727 3.24e-02 4.78e-03 -1.06e-02 2.92e-03 3.09e-02 -1.13e-02 8.07e-02  
## 728 -2.07e-02 1.38e-02 -3.23e-02 9.08e-03 -1.64e-02 1.59e-02 -9.76e-02  
## 729 6.08e-04 -4.42e-04 4.33e-04 -1.14e-05 3.53e-04 2.46e-05 -2.01e-03  
## 730 -3.31e-02 3.05e-02 1.18e-02 -1.60e-02 -1.83e-02 -2.63e-03 -9.94e-02  
## 731 -2.37e-03 -5.38e-03 4.16e-03 3.58e-03 -9.44e-03 7.19e-03 1.98e-02  
## 732 1.37e-02 -4.39e-03 -8.87e-03 5.20e-03 2.01e-02 -2.24e-03 5.34e-02  
## 733 6.61e-04 5.18e-04 4.95e-04 -3.68e-04 6.91e-04 5.38e-04 2.00e-03  
## 734 -1.91e-02 -1.19e-02 2.76e-02 -2.35e-02 1.30e-02 -5.69e-03 7.32e-02  
## 735 -1.10e-02 -1.62e-02 1.62e-02 -6.96e-03 -3.72e-03 -1.70e-03 5.50e-02  
## 736 -4.41e-03 5.70e-03 2.21e-02 -5.40e-03 1.22e-02 -1.34e-02 5.27e-02  
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## 738 1.29e-02 -7.15e-03 -4.45e-03 -1.90e-02 3.00e-03 3.53e-03 5.82e-02  
## 739 1.68e-03 -1.45e-03 1.78e-03 1.89e-03 4.84e-03 -1.96e-03 -9.69e-03  
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## 742 1.48e-02 4.09e-03 -2.29e-02 -2.51e-03 -1.51e-02 2.14e-02 -6.23e-02  
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## 747 2.23e-02 8.11e-03 2.99e-02 2.10e-02 3.13e-02 -1.16e-02 8.86e-02  
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## 749 1.18e-02 -1.80e-03 -2.84e-03 -4.80e-04 3.19e-03 5.76e-03 2.34e-02  
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## 753 2.32e-02 9.12e-04 2.75e-02 2.24e-03 3.16e-02 -3.12e-02 9.38e-02  
## 754 8.25e-03 2.46e-03 2.33e-03 -4.16e-03 -1.19e-03 1.25e-02 -4.11e-02  
## 755 2.52e-04 -8.28e-04 -1.92e-03 3.60e-03 -2.20e-03 5.80e-03 -1.29e-02  
## 756 -2.40e-03 -5.17e-03 4.31e-03 3.65e-03 -1.04e-02 8.44e-03 2.09e-02  
## 757 2.46e-02 1.94e-03 7.41e-03 2.69e-02 -1.89e-02 9.96e-03 -7.65e-02  
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## 760 1.25e-02 7.45e-03 -2.81e-02 -4.44e-03 -1.91e-02 7.25e-03 -5.94e-02  
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## 762 -6.62e-03 -1.43e-03 -5.08e-03 4.68e-03 -1.93e-03 1.90e-04 -2.49e-02  
## 763 3.86e-05 -5.15e-04 -1.51e-03 -5.34e-03 -3.12e-03 5.82e-03 -1.23e-02  
## 764 1.95e-02 1.20e-03 -1.19e-02 1.58e-02 -7.66e-03 1.38e-02 7.22e-02  
## 765 1.46e-02 4.95e-05 -9.31e-03 2.33e-02 1.90e-02 -1.19e-02 6.30e-02  
## 766 -6.44e-04 1.59e-03 1.91e-03 -6.57e-03 -3.45e-03 3.12e-03 1.09e-02  
## 767 1.25e-02 -1.20e-02 -6.50e-03 5.76e-03 1.33e-02 2.39e-03 4.38e-02  
## 768 -1.51e-02 7.79e-03 7.28e-03 8.56e-03 -2.89e-04 -3.56e-03 3.58e-02  
## 769 -2.92e-03 -6.48e-03 -9.24e-03 -8.05e-03 -1.31e-02 6.96e-03 2.36e-02  
## 770 1.06e-02 2.74e-04 3.26e-03 -2.91e-03 -5.95e-03 8.97e-03 -3.67e-02  
## 771 1.02e-02 2.00e-02 -1.83e-02 -1.46e-02 4.58e-02 -3.92e-02 -9.11e-02  
## 772 2.03e-02 1.62e-03 1.09e-02 -1.72e-02 -1.88e-02 2.22e-02 -7.21e-02  
## 773 4.88e-03 -1.70e-02 9.35e-03 -9.83e-03 -1.92e-02 5.59e-03 -6.89e-02  
## 774 2.59e-04 3.60e-03 -1.60e-03 1.46e-04 -1.01e-03 5.25e-03 1.12e-02  
## 775 -2.59e-02 -4.45e-04 1.76e-02 1.21e-02 -2.25e-03 7.44e-03 7.24e-02  
## 776 -9.73e-03 -8.68e-03 6.05e-03 -1.53e-03 -1.62e-02 1.17e-02 -4.48e-02  
## 777 -3.56e-03 -1.89e-03 -3.01e-03 -3.10e-05 1.29e-03 1.69e-03 1.90e-02  
## 778 -6.26e-03 -4.86e-03 -2.49e-02 3.14e-03 8.42e-03 -2.20e-02 -7.13e-02  
## 779 2.10e-03 -1.44e-03 2.02e-03 -5.53e-05 1.35e-03 -5.42e-04 -1.04e-02  
## 780 3.44e-03 -9.50e-04 1.16e-02 9.96e-03 -2.27e-03 1.01e-02 4.14e-02  
## 781 4.04e-04 -5.79e-03 -6.25e-03 -3.70e-03 -3.69e-03 -1.04e-03 2.41e-02  
## 782 -8.58e-03 4.20e-04 2.03e-02 3.66e-04 1.01e-02 -1.06e-02 -7.61e-02  
## 783 -1.63e-04 2.03e-04 2.45e-04 2.35e-04 -1.98e-04 2.77e-04 -1.24e-03  
## 784 1.00e-02 -1.13e-02 8.31e-03 -1.55e-02 2.57e-03 6.05e-03 -8.58e-02  
## 785 -2.22e-03 -2.59e-03 -2.77e-03 2.62e-03 -1.71e-03 7.13e-08 -1.36e-02  
## 786 1.77e-03 -9.50e-03 -5.83e-03 -8.63e-03 -5.60e-03 -2.04e-03 2.95e-02  
## 787 -1.32e-02 4.39e-03 1.04e-02 3.15e-03 -5.49e-03 -7.58e-03 4.02e-02  
## 788 -6.23e-03 -2.74e-03 -6.11e-03 5.73e-03 2.79e-04 2.80e-03 -2.79e-02  
## 789 1.43e-04 -1.28e-04 -3.21e-04 2.51e-05 -2.01e-04 1.95e-04 -1.40e-03  
## 790 -2.00e-03 -7.25e-04 -1.05e-03 3.25e-05 -1.30e-03 -3.03e-04 5.24e-03  
## 791 2.58e-04 1.01e-02 -7.02e-03 3.19e-03 -3.46e-03 5.36e-03 1.77e-02  
## 792 -6.07e-04 -5.51e-04 -3.26e-04 1.99e-04 -1.05e-04 1.26e-04 -1.96e-03  
## 793 -1.97e-02 -1.65e-03 2.39e-02 -1.68e-02 -9.78e-03 1.15e-02 7.46e-02  
## 794 -2.85e-02 -3.37e-03 -1.12e-02 1.30e-02 -1.01e-02 -8.94e-03 6.39e-02  
## 795 1.58e-02 9.91e-03 1.63e-02 -5.46e-03 2.12e-02 8.94e-04 4.71e-02  
## 796 -3.27e-03 -1.03e-02 -8.83e-03 -1.30e-02 -1.39e-02 3.05e-03 3.02e-02  
## 797 -2.06e-03 -5.27e-03 3.56e-03 -2.20e-03 -9.24e-03 8.53e-03 2.06e-02  
## 798 4.63e-03 -9.34e-04 1.08e-02 -1.95e-02 6.89e-03 -3.14e-02 -9.37e-02  
## 799 1.32e-02 1.68e-02 -4.54e-03 9.77e-04 8.34e-03 1.15e-02 3.88e-02  
## 800 1.05e-02 4.21e-03 3.62e-03 -3.37e-03 -8.96e-03 1.70e-02 -4.83e-02  
## 801 -1.58e-04 3.48e-03 -4.09e-03 3.45e-03 -1.19e-03 -1.31e-03 1.00e-02  
## 802 2.85e-03 3.61e-03 -1.97e-03 -4.86e-04 -3.57e-04 -6.67e-05 9.85e-03  
## 803 -1.85e-02 -5.14e-03 5.75e-03 -1.53e-03 -1.71e-02 1.45e-02 -5.17e-02  
## 804 -1.35e-03 2.10e-03 -1.73e-03 -1.86e-03 -2.24e-03 1.86e-03 1.03e-02  
## 805 3.85e-03 -7.32e-03 7.56e-03 -5.31e-03 -2.32e-03 5.12e-05 2.79e-02  
## 806 2.71e-04 1.34e-03 -1.13e-03 7.45e-05 -1.94e-04 2.52e-03 6.44e-03  
## 807 1.27e-02 1.30e-02 2.88e-03 -1.02e-02 -5.05e-04 6.11e-05 -6.27e-02  
## 808 -1.26e-02 -9.32e-03 9.24e-03 -6.43e-05 -1.99e-02 2.04e-04 -3.88e-02  
## 809 7.39e-03 -4.30e-03 8.59e-03 2.79e-02 1.08e-02 -2.34e-02 -8.96e-02  
## 810 1.43e-03 -3.52e-02 2.03e-02 1.05e-03 -5.29e-03 -5.36e-02 -1.46e-01  
## 811 1.75e-05 1.71e-03 8.06e-04 6.24e-04 -2.86e-04 -7.01e-04 4.92e-03  
## 812 3.61e-03 2.17e-03 4.81e-03 -7.71e-03 4.78e-03 4.18e-04 2.38e-02  
## 813 -3.33e-03 -5.20e-03 5.94e-03 -1.60e-02 -1.51e-02 9.94e-03 3.28e-02  
## 814 3.10e-02 -3.70e-03 -7.20e-03 2.64e-02 1.57e-02 -4.57e-03 7.06e-02  
## 815 1.43e-02 -3.54e-03 6.69e-03 -1.26e-02 -1.68e-02 1.34e-02 -4.67e-02  
## 816 -9.35e-04 -2.56e-03 -2.77e-03 -6.30e-03 1.24e-03 3.08e-03 2.25e-02  
## 817 9.65e-03 1.32e-02 4.19e-03 -7.40e-03 -7.97e-03 2.87e-02 -6.73e-02  
## 818 -5.49e-05 -4.37e-05 3.17e-05 -3.81e-06 -3.93e-05 -2.12e-05 -1.57e-04  
## 819 -1.08e-03 -1.96e-02 -2.37e-03 8.10e-03 -6.32e-03 1.34e-02 4.32e-02  
## 820 -7.39e-04 1.04e-03 -1.08e-03 -2.92e-04 -5.07e-04 -6.42e-05 3.72e-03  
## 821 -4.58e-03 6.70e-03 -5.05e-03 8.26e-03 1.11e-05 2.56e-03 4.16e-02  
## 822 1.25e-02 -7.27e-03 -1.06e-02 -1.11e-02 -1.22e-02 -5.18e-03 5.38e-02  
## 823 -4.03e-05 6.50e-04 -1.31e-03 -1.29e-04 -1.07e-04 -1.37e-03 3.73e-03  
## 824 -2.74e-02 6.75e-03 8.41e-03 1.06e-02 -1.66e-02 1.71e-02 -7.45e-02  
## 825 7.62e-03 -3.06e-03 8.58e-04 1.28e-02 -2.71e-03 8.77e-03 -3.39e-02  
## 826 -2.69e-03 -9.13e-03 4.99e-03 5.68e-03 -9.95e-03 3.43e-03 2.61e-02  
## 827 -6.46e-02 3.98e-03 -4.35e-02 -2.23e-02 -3.56e-02 -2.07e-02 -1.35e-01  
## 828 1.38e-02 -1.61e-02 -7.83e-03 4.33e-03 -1.76e-03 -5.12e-03 4.89e-02  
## 829 1.30e-02 6.06e-03 -4.45e-02 -2.00e-02 -9.73e-03 -9.34e-03 -1.17e-01  
## 830 -1.45e-05 6.99e-04 3.04e-04 -3.49e-04 -1.40e-04 -1.65e-04 1.96e-03  
## 831 9.84e-03 1.02e-02 -6.33e-03 -1.40e-04 3.03e-03 1.44e-03 -2.69e-02  
## 832 2.29e-02 -1.18e-02 -5.22e-03 8.33e-03 6.42e-03 -4.45e-04 5.78e-02  
## 833 -1.54e-02 -6.55e-03 3.96e-03 -1.09e-03 -9.50e-03 4.97e-03 -4.17e-02  
## 834 -1.26e-02 -1.40e-02 -3.81e-03 7.14e-03 -3.87e-03 7.15e-03 4.49e-02  
## 835 5.00e-03 4.48e-03 -3.32e-03 3.81e-04 4.82e-04 1.89e-04 -1.49e-02  
## 836 -5.91e-03 -5.59e-03 -2.39e-02 -1.73e-02 8.32e-03 -2.16e-02 -7.32e-02  
## 837 -8.30e-03 -1.25e-02 -5.15e-03 -2.98e-03 -8.56e-03 -4.56e-03 2.74e-02  
## 838 4.51e-06 -9.87e-04 -4.54e-04 4.96e-04 -1.74e-04 4.97e-04 -2.71e-03  
## 839 3.62e-03 -1.02e-02 5.61e-03 -1.61e-02 5.17e-03 -1.99e-02 -8.10e-02  
## 840 5.89e-04 5.16e-03 -2.56e-03 2.59e-04 -4.96e-04 7.80e-03 1.76e-02  
## 841 5.94e-03 -1.15e-02 -1.75e-02 6.51e-02 3.46e-02 -3.68e-02 -1.18e-01  
## 842 5.57e-03 -2.07e-03 -1.12e-02 -2.11e-02 -4.97e-03 1.11e-02 5.31e-02  
## 843 9.25e-03 -4.00e-03 3.68e-03 -5.62e-04 -1.18e-02 1.17e-02 -3.42e-02  
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## 845 2.72e-03 -2.11e-03 3.43e-03 3.41e-03 3.57e-03 -3.08e-04 -1.37e-02  
## 846 3.98e-03 3.88e-03 4.24e-03 -4.53e-03 2.38e-03 3.88e-03 2.51e-02  
## 847 2.18e-03 -1.83e-03 3.12e-03 -2.71e-04 5.47e-03 -2.65e-03 -1.22e-02  
## 848 4.09e-03 -6.07e-04 -6.59e-03 -3.32e-04 6.49e-03 -3.13e-03 -2.06e-02  
## 849 -2.00e-04 -7.10e-04 6.48e-04 8.91e-04 4.06e-04 -2.06e-03 -3.91e-03  
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## 851 -3.69e-03 -6.03e-03 6.17e-03 4.86e-03 -1.59e-02 8.84e-03 3.21e-02  
## 852 8.37e-03 -6.60e-03 -1.04e-02 5.90e-04 -8.47e-03 -5.11e-03 4.68e-02  
## 853 5.12e-05 -6.60e-04 -1.84e-03 3.56e-04 -2.41e-03 5.48e-03 -1.18e-02  
## 854 1.30e-03 1.18e-03 1.08e-02 -2.00e-02 1.78e-03 -4.02e-02 -1.15e-01  
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## 863 1.10e-02 3.03e-03 3.04e-03 7.93e-03 -5.13e-03 5.88e-03 -4.13e-02  
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## 868 2.24e-04 1.86e-02 -1.10e-02 4.59e-03 -7.49e-03 8.74e-03 3.40e-02  
## 869 9.36e-04 3.22e-04 -2.93e-04 -3.12e-04 1.06e-04 5.28e-04 1.74e-03  
## 870 -2.08e-03 -3.92e-04 -3.79e-03 -1.50e-03 1.26e-03 5.69e-03 2.84e-02  
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## 872 2.93e-02 4.40e-02 1.05e-02 -1.92e-02 1.08e-02 1.83e-02 -1.26e-01  
## 873 -8.33e-05 1.92e-02 1.41e-02 -1.24e-02 9.40e-03 8.20e-03 4.71e-02  
## 874 1.88e-02 5.17e-03 -1.19e-02 -1.75e-02 -1.44e-02 2.20e-02 7.48e-02  
## 875 1.24e-02 2.18e-02 -2.87e-02 -5.71e-03 -2.65e-02 3.62e-02 -8.91e-02  
## 876 -1.70e-03 -2.40e-03 2.73e-03 -2.86e-03 3.02e-04 -1.44e-03 1.19e-02  
## 877 -1.41e-03 1.60e-03 -1.68e-03 -1.51e-03 3.95e-04 3.87e-04 -7.49e-03  
## 878 1.05e-03 -7.04e-03 -7.03e-03 -1.41e-02 -9.97e-03 -1.84e-03 3.97e-02  
## 879 1.44e-02 1.39e-02 8.83e-03 -4.99e-03 -1.95e-02 4.72e-02 -8.54e-02  
## 880 -1.06e-03 8.58e-04 2.71e-03 -3.44e-03 -4.16e-03 1.18e-03 1.42e-02  
## 881 1.89e-02 9.15e-04 -2.22e-02 -2.00e-03 -2.26e-02 1.41e-02 -5.99e-02  
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## 884 -3.29e-03 -4.44e-03 -1.17e-02 4.49e-03 -1.66e-02 1.17e-02 2.91e-02  
## 885 3.67e-02 6.56e-03 -9.22e-03 4.19e-03 1.79e-02 -1.83e-02 9.55e-02  
## 886 -1.13e-02 1.87e-02 -6.41e-03 -2.31e-02 4.44e-03 -2.25e-02 8.18e-02  
## 887 -5.27e-03 8.40e-03 2.04e-02 -5.98e-03 1.98e-02 2.96e-03 5.24e-02  
## 888 -5.10e-02 5.50e-02 1.34e-02 -2.41e-02 4.06e-03 -1.52e-02 -1.27e-01  
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## 890 1.26e-02 3.36e-02 5.45e-03 2.59e-02 9.20e-03 -3.05e-03 -8.38e-02  
## 891 2.10e-02 -5.76e-03 -7.43e-03 -7.74e-03 8.16e-03 1.01e-03 6.97e-02  
## 892 -1.32e-02 -7.50e-03 -2.41e-02 4.47e-03 6.55e-03 -3.94e-02 -8.96e-02  
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## 894 -2.46e-02 -9.72e-03 -7.49e-03 -7.17e-03 8.36e-03 -1.37e-02 6.37e-02  
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## 896 2.22e-04 1.66e-02 1.31e-02 6.16e-03 6.17e-03 6.70e-03 3.59e-02  
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## 902 -1.64e-03 -8.25e-06 -3.61e-03 -1.07e-03 2.82e-04 5.26e-03 2.61e-02  
## 903 2.84e-03 -2.44e-03 -3.78e-03 2.52e-04 1.38e-03 -7.72e-04 -1.51e-02  
## 904 6.29e-03 -1.34e-03 1.67e-03 -2.19e-03 -3.31e-03 1.26e-02 -3.27e-02  
## 905 1.31e-02 3.35e-03 -1.18e-02 -7.33e-04 -1.27e-02 6.68e-03 5.66e-02  
## 906 -1.55e-02 7.45e-03 -7.21e-03 -1.32e-02 -4.00e-03 -2.58e-03 3.71e-02  
## 907 -1.96e-03 -5.99e-03 3.26e-03 3.27e-03 -6.99e-03 5.65e-03 1.89e-02  
## 908 9.62e-04 3.86e-03 -1.57e-03 3.11e-03 -4.34e-04 6.03e-03 1.36e-02  
## 909 -1.09e-02 -7.62e-03 7.61e-03 -2.29e-03 -1.37e-02 6.57e-03 -5.60e-02  
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## 914 -8.29e-03 -8.81e-03 4.97e-03 -1.26e-03 -7.68e-03 2.92e-03 -3.98e-02  
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## 916 8.01e-04 -6.27e-04 1.41e-03 1.36e-03 2.40e-04 8.71e-04 -6.82e-03  
## 917 2.12e-02 -5.42e-03 -9.63e-03 7.81e-03 1.52e-02 -1.40e-03 6.18e-02  
## 918 -6.10e-03 1.32e-02 -8.27e-03 2.14e-02 1.93e-02 -2.32e-02 6.66e-02  
## 919 -4.10e-05 -1.67e-04 1.09e-04 -1.61e-04 -6.25e-05 -1.94e-04 5.50e-04  
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## 921 1.90e-02 4.00e-03 -1.06e-02 6.04e-03 2.18e-02 -2.38e-03 6.61e-02  
## 922 -4.88e-03 -1.49e-03 -2.49e-03 -8.36e-05 -5.29e-03 -5.07e-04 1.56e-02  
## 923 1.17e-02 -3.21e-03 2.14e-02 4.54e-03 2.05e-02 -8.47e-03 6.39e-02  
## 924 -5.14e-03 -5.57e-03 3.01e-03 -3.75e-03 -1.49e-03 -2.69e-03 1.29e-02  
## 925 -7.76e-03 -8.88e-03 4.43e-03 -1.92e-03 -9.00e-03 9.57e-03 -4.41e-02  
## 926 -1.75e-02 -8.97e-04 1.00e-02 -4.66e-03 -2.33e-02 1.60e-02 -6.44e-02  
## 927 -1.23e-04 4.26e-03 -1.75e-03 3.14e-05 6.61e-04 5.54e-03 1.50e-02  
## 928 -1.03e-02 1.00e-02 1.74e-02 6.15e-03 2.45e-02 -1.61e-03 5.57e-02  
## 929 1.30e-02 -6.20e-04 2.28e-02 -2.48e-02 2.25e-02 -3.14e-03 5.80e-02  
## 930 9.65e-03 1.59e-02 8.01e-03 -9.03e-03 1.53e-02 -1.02e-05 3.23e-02  
## 931 2.60e-04 -3.50e-05 -2.02e-03 8.87e-05 -3.11e-03 7.88e-03 -1.45e-02  
## 932 1.35e-02 -5.65e-03 2.82e-03 -1.61e-03 -5.80e-03 6.41e-03 -3.38e-02  
## 933 6.41e-03 9.69e-03 -1.04e-02 8.84e-03 1.66e-03 4.85e-03 3.95e-02  
## 934 3.45e-02 1.52e-02 -7.27e-03 5.17e-03 1.36e-02 -1.91e-02 1.05e-01  
## 935 -1.10e-02 -3.86e-03 1.03e-02 -2.76e-03 -1.76e-02 1.11e-02 -5.47e-02  
## 936 -4.65e-04 -2.74e-03 -2.04e-03 -1.15e-04 -3.54e-03 6.94e-03 1.97e-02  
## 937 -2.05e-03 -6.66e-03 3.73e-03 4.11e-03 -6.93e-03 3.59e-03 1.64e-02  
## 938 -2.95e-04 -6.48e-05 9.85e-04 -3.06e-03 -1.13e-03 9.02e-04 5.91e-03  
## 939 5.39e-03 -2.75e-03 1.25e-02 1.07e-05 9.41e-04 8.32e-03 4.99e-02  
## 940 -2.34e-02 -3.85e-03 -8.30e-03 -1.11e-02 1.63e-02 2.39e-03 6.01e-02  
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## 943 -1.25e-02 -5.98e-03 -2.25e-02 2.62e-02 -1.94e-02 2.39e-03 -5.45e-02  
## 944 -2.77e-03 -6.15e-03 -1.07e-02 4.59e-03 -1.32e-02 9.26e-03 2.79e-02  
## 945 3.50e-02 -1.14e-02 -6.28e-03 2.88e-02 8.35e-03 -4.69e-03 8.94e-02  
## 946 8.88e-03 9.59e-03 2.66e-03 -7.61e-03 3.33e-03 4.63e-03 -5.23e-02  
## 947 -1.72e-05 -1.39e-03 -5.07e-04 1.81e-03 3.56e-05 -6.52e-05 -3.71e-03  
## 948 -4.87e-03 -8.46e-03 -2.46e-02 -1.67e-02 1.33e-02 -1.97e-02 -8.33e-02  
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## 953 -6.00e-03 -4.51e-03 -2.53e-02 2.40e-02 1.25e-02 -2.44e-02 -8.85e-02  
## 954 1.05e-04 1.18e-04 -1.91e-03 2.73e-03 -1.24e-03 5.07e-03 -1.13e-02  
## 955 3.64e-03 -3.02e-03 9.29e-03 -2.71e-04 -2.27e-03 -7.46e-04 3.83e-02  
## 956 -1.32e-02 -1.05e-02 8.11e-03 -9.79e-03 -5.93e-03 -8.67e-03 3.23e-02  
## 957 2.37e-02 -9.43e-03 -6.06e-03 6.99e-03 1.56e-02 -3.04e-03 6.00e-02  
## 958 5.15e-03 2.42e-04 1.38e-02 -2.32e-02 -7.29e-03 1.44e-02 6.48e-02  
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## 960 8.45e-03 -2.78e-03 1.62e-02 -2.28e-02 -1.19e-02 1.50e-03 6.54e-02  
## 961 2.98e-04 -2.02e-04 -2.16e-04 2.12e-04 1.40e-04 2.50e-05 -1.05e-03  
## 962 -5.68e-03 -9.12e-03 1.95e-02 -1.68e-02 1.30e-02 -1.93e-02 -6.54e-02  
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## 964 1.22e-02 2.80e-02 -1.94e-02 9.89e-03 4.63e-02 -3.21e-02 -8.93e-02  
## 965 -2.09e-03 -5.42e-03 3.51e-03 2.98e-03 -8.03e-03 7.45e-03 2.11e-02  
## 966 -1.16e-02 -2.75e-03 -6.90e-03 -1.50e-04 5.01e-04 -8.73e-04 -2.89e-02  
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## 969 1.50e-02 -1.26e-02 -4.04e-03 -1.24e-02 -1.63e-03 3.68e-03 4.48e-02  
## 970 -4.14e-03 -2.52e-03 -2.84e-03 2.85e-03 2.92e-06 3.66e-04 -1.19e-02  
## 971 -1.05e-02 2.03e-02 1.50e-02 -1.39e-02 3.69e-03 1.11e-02 -1.12e-01  
## 972 -2.11e-04 2.71e-04 -2.10e-04 -2.48e-05 -1.17e-04 8.30e-05 1.09e-03  
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## 975 1.81e-02 3.96e-03 2.90e-02 3.38e-03 2.79e-02 -1.70e-03 6.16e-02  
## 976 5.99e-03 -5.97e-03 6.07e-03 -2.04e-02 1.52e-02 -2.24e-02 -8.67e-02  
## 977 1.04e-03 5.27e-05 -2.43e-03 -2.77e-03 -3.53e-05 2.66e-05 8.19e-03  
## 978 -2.62e-03 -7.56e-03 -7.33e-03 -1.10e-02 -1.04e-02 3.62e-03 2.13e-02  
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## 981 1.40e-02 -5.67e-03 4.06e-03 -1.12e-03 -1.14e-02 9.26e-03 -3.42e-02  
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## 989 4.33e-05 -4.26e-04 -4.37e-04 1.73e-04 -5.24e-05 8.66e-04 -2.47e-03  
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## 991 1.42e-04 8.89e-03 1.88e-03 -4.06e-03 -3.06e-03 3.94e-03 1.72e-02  
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## 993 -2.41e-02 2.45e-02 -3.76e-02 9.59e-03 -2.82e-02 9.59e-03 -9.85e-02  
## 994 -2.15e-02 8.95e-03 1.10e-02 9.73e-03 -2.39e-02 -9.82e-03 -6.64e-02  
## 995 6.97e-03 -3.59e-03 1.10e-03 -1.33e-03 -3.20e-03 8.46e-03 -2.68e-02  
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## 997 -2.08e-02 -7.36e-03 1.92e-02 -6.43e-04 -6.98e-03 -9.04e-03 5.83e-02  
## 998 7.71e-03 1.51e-04 4.39e-03 -2.34e-03 -1.18e-02 1.58e-02 -4.09e-02  
## 999 -1.41e-02 -2.70e-04 5.80e-03 -6.84e-03 -1.12e-02 7.71e-04 -5.19e-02  
## 1000 1.82e-02 7.52e-03 -1.40e-02 1.95e-02 3.07e-02 -2.94e-04 6.71e-02  
## 1001 9.23e-06 3.94e-04 1.31e-04 3.40e-04 3.65e-05 -6.98e-05 9.05e-04  
## 1002 -1.92e-03 -6.90e-03 3.30e-03 3.97e-03 -5.25e-03 1.33e-03 1.45e-02  
## 1003 -5.60e-03 1.11e-02 -2.79e-03 -2.26e-03 -5.44e-04 1.53e-02 5.81e-02  
## 1004 2.02e-02 6.82e-03 6.52e-03 -5.70e-03 -1.47e-02 1.19e-02 -6.11e-02  
## 1005 -1.46e-02 -6.91e-03 -2.25e-02 -5.02e-05 -2.78e-02 1.59e-04 -4.80e-02  
## 1006 1.58e-02 1.78e-02 7.60e-03 8.56e-03 -5.28e-03 5.80e-03 -7.36e-02  
## 1007 -1.43e-03 3.48e-03 -8.72e-03 5.11e-04 -8.99e-03 2.70e-03 2.57e-02  
## 1008 1.71e-03 1.40e-03 -1.32e-02 1.05e-02 -6.93e-03 5.02e-03 4.21e-02  
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## 1012 4.79e-02 2.35e-02 -2.74e-02 -4.36e-03 1.47e-02 2.44e-03 -1.08e-01  
## 1013 4.72e-02 -3.10e-02 -2.61e-02 2.17e-02 3.98e-03 -1.65e-02 -1.10e-01  
## 1014 4.28e-03 -1.87e-03 3.60e-03 -6.53e-03 2.29e-03 7.61e-04 -1.44e-02  
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## 1019 1.48e-03 8.90e-04 2.42e-03 3.87e-03 1.40e-03 -1.02e-03 1.19e-02  
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## 1023 8.27e-05 4.25e-03 -1.89e-03 -3.19e-03 -9.69e-05 3.19e-03 1.45e-02  
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## 1026 -2.43e-02 7.13e-03 6.74e-03 -6.35e-03 -1.27e-02 3.79e-03 -5.81e-02  
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## 1029 -1.39e-02 -1.47e-02 1.31e-02 -1.41e-02 -1.16e-02 -2.62e-03 4.48e-02  
## 1030 8.55e-03 -7.95e-04 3.38e-03 -2.24e-03 -4.88e-03 1.31e-02 -4.24e-02  
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## 1036 -8.93e-03 5.20e-03 -5.81e-03 7.78e-03 1.19e-02 9.37e-03 4.48e-02  
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## 1041 -2.21e-02 1.22e-02 1.28e-02 3.10e-02 -2.43e-02 -1.35e-02 -8.07e-02  
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## 1043 -7.54e-03 -2.02e-02 -4.22e-03 -1.88e-02 -2.36e-03 3.86e-03 5.82e-02  
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## 1046 -9.17e-04 6.13e-04 -6.18e-03 4.43e-03 -3.55e-03 -6.99e-06 1.28e-02  
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## 1076 1.28e-02 2.20e-02 -5.11e-03 -3.30e-04 9.32e-03 6.48e-03 4.24e-02  
## 1077 1.81e-02 7.65e-03 -1.34e-02 1.71e-03 2.93e-02 9.31e-04 6.49e-02  
## 1078 -5.87e-05 2.96e-03 -2.66e-03 -2.86e-03 -9.62e-04 2.23e-04 6.47e-03  
## 1079 -8.74e-03 -1.76e-02 -2.98e-03 1.16e-02 -9.82e-03 5.56e-03 6.40e-02  
## 1080 1.70e-02 -6.19e-03 6.20e-03 -7.13e-04 -1.66e-02 7.20e-03 -4.03e-02  
## 1081 2.11e-04 1.01e-03 -5.72e-04 3.58e-04 -2.49e-05 9.95e-04 -2.89e-03  
## 1082 -1.60e-02 -3.10e-03 8.25e-03 -3.72e-03 -1.39e-02 4.10e-03 -5.73e-02  
## 1083 1.14e-02 -7.19e-04 -2.39e-02 2.20e-02 -1.05e-02 6.88e-03 -5.69e-02  
## 1084 1.13e-02 -1.23e-02 1.55e-02 -1.51e-02 1.49e-02 -3.69e-03 4.87e-02  
## 1085 7.22e-03 1.31e-03 1.74e-03 5.45e-03 -1.65e-03 1.22e-02 -3.98e-02  
## 1086 1.80e-02 3.52e-03 -9.83e-03 -1.27e-02 1.99e-02 -1.25e-03 5.78e-02  
## 1087 -2.87e-03 -2.37e-04 1.05e-02 -8.18e-03 -6.41e-04 3.67e-03 2.71e-02  
## 1088 -8.13e-03 2.13e-03 -6.56e-03 -1.21e-02 -7.40e-03 -2.21e-03 3.36e-02  
## 1089 -7.43e-03 -3.15e-03 -6.10e-03 -6.07e-04 -3.45e-03 4.11e-03 -3.08e-02  
## 1090 4.04e-04 -7.59e-04 -1.42e-03 -1.21e-03 -1.24e-03 -1.75e-03 -5.76e-03  
## 1091 5.55e-03 3.57e-04 6.01e-03 -6.37e-03 -3.80e-03 -9.78e-04 2.24e-02  
## 1092 3.31e-02 1.25e-02 -1.07e-02 5.89e-04 3.05e-02 -1.38e-02 7.59e-02  
## 1093 -1.49e-02 -1.31e-02 1.36e-02 -1.85e-02 -7.11e-03 -1.51e-02 5.52e-02  
## 1094 8.92e-03 -2.08e-02 8.97e-03 -6.59e-03 -2.40e-02 3.79e-03 -6.54e-02  
## 1095 -5.07e-04 2.66e-04 -4.71e-04 -3.31e-04 -4.42e-04 -2.45e-04 -1.64e-03  
## 1096 4.15e-03 -4.16e-03 -1.23e-02 1.33e-02 -7.92e-03 1.28e-03 5.69e-02  
## 1097 -3.85e-03 -9.60e-03 -1.04e-02 -9.07e-04 -1.48e-02 3.75e-03 3.25e-02  
## 1098 -1.50e-03 -6.37e-03 2.64e-03 -2.21e-04 -4.44e-03 1.87e-03 1.26e-02  
## 1099 -7.90e-03 8.70e-04 2.25e-02 -2.14e-02 1.22e-02 3.34e-03 -9.75e-02  
## 1100 -2.96e-03 -6.18e-04 -3.39e-03 6.68e-03 2.43e-03 5.02e-03 3.38e-02  
## 1101 -7.03e-04 -1.01e-03 -4.17e-03 3.71e-03 -1.56e-03 -2.01e-03 9.68e-03  
## 1102 -2.90e-02 5.08e-03 -1.06e-02 4.36e-03 2.44e-02 -6.94e-03 7.81e-02  
## 1103 -1.23e-03 9.89e-03 9.15e-03 -6.03e-03 2.21e-03 8.38e-03 2.62e-02  
## 1104 1.51e-04 -3.27e-04 -1.35e-03 1.86e-03 -4.67e-04 3.55e-03 -8.00e-03  
## 1105 1.17e-04 -3.74e-04 -1.16e-03 1.10e-04 -6.12e-04 3.14e-03 -6.85e-03  
## 1106 1.91e-03 -7.30e-03 -6.43e-03 1.12e-02 -3.58e-03 -1.20e-03 3.28e-02  
## 1107 -6.68e-04 -8.05e-04 -5.76e-04 6.89e-04 -8.19e-04 7.01e-04 -3.36e-03  
## 1108 2.33e-02 9.79e-03 1.20e-02 2.84e-02 -2.15e-02 3.15e-02 -8.86e-02  
## 1109 1.85e-03 -1.34e-03 -3.08e-03 -4.84e-03 3.12e-03 -4.66e-04 -1.22e-02  
## 1110 -2.34e-02 1.48e-02 1.03e-02 6.02e-03 -1.24e-02 1.23e-04 -7.35e-02  
## 1111 -1.60e-02 -1.05e-02 -3.38e-03 -8.03e-03 6.93e-04 -8.68e-03 6.50e-02  
## 1112 3.41e-03 9.31e-03 -4.81e-03 -1.54e-03 -1.56e-04 1.45e-03 1.95e-02  
## 1113 -1.35e-03 -8.76e-04 -6.49e-03 1.73e-03 -5.33e-03 -2.35e-03 1.63e-02  
## 1114 -5.97e-03 2.22e-02 -7.09e-03 -1.60e-03 1.00e-02 7.15e-03 4.45e-02  
## 1115 -9.44e-03 -1.70e-02 -3.80e-03 -3.06e-03 -1.87e-03 1.79e-03 4.73e-02  
## 1116 1.10e-03 -1.05e-04 -2.46e-03 2.18e-03 -1.36e-03 1.52e-03 -1.08e-02  
## 1117 1.54e-02 -1.94e-03 2.20e-02 -1.11e-02 2.45e-02 4.95e-03 4.91e-02  
## 1118 -3.68e-03 -2.27e-03 -2.97e-03 -7.13e-04 -5.43e-03 -7.32e-04 1.35e-02  
## 1119 1.93e-02 -2.68e-02 1.40e-02 1.49e-02 8.03e-03 -1.17e-02 -8.84e-02  
## 1120 2.35e-03 3.07e-03 -5.48e-03 -6.87e-03 -1.31e-03 -1.18e-03 2.03e-02  
## 1121 1.06e-03 -3.11e-04 -9.21e-03 -1.94e-02 -1.03e-02 4.74e-03 4.17e-02  
## 1122 9.68e-03 1.21e-02 2.00e-03 -9.95e-03 8.76e-03 2.44e-03 -5.95e-02  
## 1123 -1.91e-02 -1.45e-03 -2.25e-02 -1.73e-02 -3.00e-02 8.14e-03 -6.35e-02  
## 1124 2.36e-03 1.16e-03 -4.81e-03 5.17e-03 2.71e-04 -3.33e-03 1.64e-02  
## 1125 -2.53e-03 -8.47e-03 -7.24e-03 2.80e-04 -7.98e-03 3.37e-04 1.79e-02  
## 1126 2.77e-02 -1.19e-02 -2.79e-03 -5.06e-03 2.73e-03 7.16e-03 6.83e-02  
## 1127 -3.01e-05 2.66e-03 -2.50e-03 -1.24e-03 -9.26e-04 7.20e-04 5.49e-03  
## 1128 -1.41e-02 9.29e-03 1.62e-02 3.50e-02 2.90e-02 2.25e-03 -1.03e-01  
## 1129 8.08e-03 5.25e-03 2.10e-03 1.67e-02 -2.19e-03 1.97e-02 -5.57e-02  
## 1130 -2.19e-03 -5.07e-03 3.17e-03 2.65e-03 -8.41e-03 7.69e-03 2.03e-02  
## 1131 1.00e-02 -8.18e-03 1.50e-02 4.28e-03 2.10e-02 -6.75e-03 4.74e-02  
## 1132 1.72e-04 1.57e-03 -7.59e-04 -1.30e-03 -1.31e-03 2.91e-03 6.44e-03  
## 1133 7.28e-05 -6.28e-04 -1.74e-03 5.63e-04 -2.59e-03 5.34e-03 -1.14e-02  
## 1134 9.38e-05 2.45e-04 -1.84e-03 -6.68e-03 -4.25e-03 8.13e-03 -1.57e-02  
## 1135 8.29e-03 -6.32e-03 -1.07e-02 -2.24e-02 -1.51e-02 -1.91e-03 6.25e-02  
## 1136 -1.22e-03 3.95e-03 3.64e-03 4.63e-03 -6.86e-03 4.28e-03 2.34e-02  
## 1137 -7.57e-03 1.30e-02 6.63e-03 -4.21e-03 -6.78e-04 -1.15e-02 3.69e-02  
## 1138 -2.87e-03 -6.34e-03 -1.03e-02 4.34e-03 -1.22e-02 8.15e-03 2.73e-02  
## 1139 1.86e-02 7.63e-03 -9.96e-03 -1.51e-02 1.84e-02 -2.36e-03 8.63e-02  
## 1140 2.16e-03 -3.42e-03 1.43e-02 -7.79e-03 -6.85e-03 6.41e-04 4.58e-02  
## 1141 3.05e-02 -7.21e-03 1.39e-02 2.74e-03 1.25e-02 -2.17e-02 -7.59e-02  
## 1142 1.20e-02 -8.31e-03 -8.41e-03 -1.74e-02 1.50e-02 2.48e-04 5.25e-02  
## 1143 4.10e-03 2.01e-03 4.36e-03 6.22e-03 4.90e-03 -4.52e-04 2.24e-02  
## 1144 1.35e-02 4.44e-03 -1.19e-02 5.19e-04 -2.05e-02 3.05e-03 7.02e-02  
## 1145 7.58e-03 -3.21e-03 2.08e-03 -1.32e-03 -7.31e-03 1.13e-02 -2.83e-02  
## 1146 7.71e-03 4.43e-03 5.80e-03 -1.56e-02 -1.62e-02 1.71e-02 -5.28e-02  
## 1147 -2.08e-02 -1.18e-02 -7.31e-03 5.94e-03 -2.65e-03 -4.51e-03 5.35e-02  
## 1148 -2.50e-03 -4.66e-03 4.09e-03 -2.58e-03 -1.12e-02 9.32e-03 2.03e-02  
## 1149 1.11e-02 -1.05e-03 1.68e-02 1.17e-02 -5.99e-03 4.30e-03 5.18e-02  
## 1150 4.61e-03 -6.64e-04 -3.72e-03 6.09e-03 -1.95e-03 -6.46e-04 1.73e-02  
## 1151 -7.78e-05 1.48e-03 -2.01e-03 -1.83e-03 -7.83e-04 -6.61e-04 5.20e-03  
## 1152 -4.75e-03 -1.85e-03 -3.34e-03 -1.98e-04 1.12e-03 -1.41e-04 -1.24e-02  
## 1153 4.21e-05 -1.04e-03 -6.69e-04 -2.00e-03 -6.87e-04 1.63e-03 -4.84e-03  
## 1154 2.33e-02 4.38e-03 -2.89e-03 3.95e-06 -2.79e-04 9.62e-03 4.45e-02  
## 1155 -1.19e-02 -1.40e-02 -3.73e-03 -6.69e-04 -6.13e-04 3.34e-03 3.82e-02  
## 1156 -1.51e-02 -6.59e-03 3.54e-03 -1.47e-03 -9.96e-03 5.55e-03 -4.26e-02  
## 1157 -1.70e-02 -6.94e-03 -6.64e-03 7.51e-03 7.70e-03 -9.70e-03 8.53e-02  
## 1158 -1.06e-02 -8.35e-03 1.91e-02 -1.55e-02 6.84e-03 -2.41e-02 -9.81e-02  
## 1159 2.87e-03 2.22e-03 2.01e-03 1.92e-03 1.52e-03 -5.49e-04 -9.36e-03  
## 1160 -1.78e-02 -2.32e-03 3.74e-03 2.16e-02 -9.03e-03 1.27e-02 -5.48e-02  
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## 1162 -4.91e-04 2.10e-04 1.37e-03 -2.12e-03 -1.73e-03 7.85e-04 6.17e-03  
## 1163 8.30e-04 4.11e-04 -1.32e-02 7.51e-04 -1.35e-02 3.23e-03 5.02e-02  
## 1164 5.40e-03 1.45e-02 -9.91e-03 -6.26e-03 -4.01e-03 5.26e-03 4.04e-02  
## 1165 -6.39e-04 3.56e-03 1.85e-03 2.33e-03 -4.76e-03 6.57e-03 1.54e-02  
## 1166 9.39e-03 -2.58e-03 -4.13e-03 3.69e-04 -5.26e-04 -8.18e-03 3.65e-02  
## 1167 -4.42e-05 -2.55e-04 2.71e-04 -3.61e-04 5.03e-05 -5.47e-04 -1.39e-03  
## 1168 9.99e-03 -7.18e-03 9.79e-03 -1.98e-02 -1.06e-02 -2.20e-02 -1.06e-01  
## 1169 -1.68e-02 -1.02e-02 -2.15e-03 1.04e-02 -1.68e-04 -7.96e-03 8.06e-02  
## 1170 1.09e-02 1.47e-02 3.69e-02 1.06e-02 5.56e-02 -3.93e-02 -9.21e-02  
## 1171 4.04e-03 2.07e-02 -1.14e-02 1.39e-02 -6.31e-03 1.66e-03 5.07e-02  
## 1172 1.45e-02 7.32e-04 -1.18e-02 -1.21e-02 1.96e-02 -9.11e-03 6.65e-02  
## 1173 9.86e-03 5.42e-03 3.29e-03 7.43e-03 -9.52e-03 3.23e-02 -5.87e-02  
## 1174 -3.86e-03 6.86e-03 4.62e-03 7.06e-03 -1.84e-03 -1.07e-03 2.09e-02  
## 1175 8.00e-03 1.05e-02 6.11e-03 -4.52e-03 -1.59e-02 2.19e-02 -5.99e-02  
## 1176 2.28e-02 -1.51e-02 -2.91e-03 9.47e-03 4.73e-04 -4.02e-03 6.48e-02  
## 1177 2.21e-03 5.59e-03 -3.09e-03 -3.58e-03 9.22e-04 1.02e-03 1.21e-02  
## 1178 -2.01e-02 9.89e-03 1.35e-02 3.43e-02 2.99e-02 -1.64e-03 -1.02e-01  
## 1179 -8.28e-03 -1.68e-02 -5.66e-03 5.50e-03 -5.78e-03 -5.26e-03 4.03e-02  
## 1180 -2.53e-03 -1.38e-05 -4.26e-03 7.07e-03 6.48e-03 5.64e-03 3.92e-02  
## 1181 2.49e-02 -1.11e-02 -1.20e-02 1.98e-02 1.86e-02 -1.77e-02 7.45e-02  
## 1182 3.55e-02 -5.08e-03 1.21e-02 -3.39e-04 1.90e-02 -2.86e-03 -6.57e-02  
## 1183 6.44e-04 -5.69e-04 -1.09e-03 -1.06e-03 -4.28e-04 -2.12e-04 4.70e-03  
## 1184 2.16e-03 1.16e-02 1.22e-02 -6.62e-03 1.01e-03 1.59e-02 3.71e-02  
## 1185 -2.40e-03 5.07e-03 -6.82e-03 7.01e-03 1.12e-02 -2.91e-03 4.65e-02  
## 1186 -2.53e-02 1.25e-03 3.01e-02 -1.73e-02 3.22e-02 -2.08e-02 8.39e-02  
## 1187 -9.55e-03 1.10e-02 -6.47e-03 7.68e-03 7.38e-03 -6.60e-03 5.29e-02  
## 1188 5.78e-04 1.23e-03 -9.96e-04 -2.44e-04 -1.47e-04 -4.54e-04 3.37e-03  
## 1189 -1.81e-02 -1.88e-03 4.89e-03 -2.36e-03 -1.09e-02 1.40e-02 -4.41e-02  
## 1190 -1.55e-03 3.08e-03 2.67e-03 3.89e-03 1.36e-05 -2.51e-04 1.10e-02  
## 1191 1.99e-03 -2.05e-03 1.15e-02 8.90e-04 -3.27e-03 3.07e-03 3.39e-02  
## 1192 -3.03e-02 -3.02e-03 -8.64e-03 4.13e-03 -1.78e-02 -6.73e-04 6.48e-02  
## 1193 2.50e-03 -1.83e-03 -3.15e-03 -2.44e-03 1.82e-03 -2.10e-04 -1.13e-02  
## 1194 -2.74e-03 -7.12e-03 -8.45e-03 -6.67e-03 -1.20e-02 5.26e-03 2.41e-02  
## 1195 -1.20e-05 1.42e-03 -1.56e-03 -1.52e-03 -2.86e-04 -3.93e-04 3.82e-03  
## 1196 1.32e-02 -4.55e-03 2.16e-02 4.88e-03 2.16e-02 -7.51e-03 6.38e-02  
## 1197 -7.20e-03 7.96e-03 -4.60e-03 -4.92e-03 7.04e-03 -6.01e-03 4.95e-02  
## 1198 1.72e-03 6.49e-05 -1.01e-02 1.22e-03 -8.87e-03 3.95e-03 3.94e-02  
## 1199 1.17e-02 -1.10e-02 8.63e-03 2.84e-02 -1.02e-02 -1.44e-02 -9.94e-02  
## 1200 4.49e-06 -1.41e-04 -1.44e-04 -3.87e-04 -7.61e-05 3.47e-04 -9.39e-04  
## 1201 6.58e-03 -4.91e-03 1.22e-02 -9.19e-03 1.70e-03 1.17e-02 4.62e-02  
## 1202 -1.02e-02 -8.40e-03 6.76e-03 -8.46e-04 -1.42e-02 4.04e-03 -3.61e-02  
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## 1204 -2.00e-02 -1.07e-02 -9.32e-03 -1.12e-02 -1.21e-02 -5.81e-03 6.06e-02  
## 1205 -1.73e-02 -6.34e-03 5.43e-03 -6.75e-04 -1.55e-02 6.76e-03 -3.94e-02  
## 1206 1.03e-02 2.10e-03 -5.08e-03 5.89e-03 5.78e-03 2.64e-03 2.87e-02  
## 1207 -1.72e-02 1.32e-03 1.22e-02 -4.13e-03 -2.54e-02 -2.85e-03 -5.83e-02  
## 1208 4.13e-02 1.38e-02 1.59e-02 -4.74e-03 1.72e-02 5.66e-03 -9.39e-02  
## 1209 1.78e-02 8.99e-03 -1.24e-02 1.50e-03 2.64e-02 1.84e-03 5.27e-02  
## 1210 1.19e-04 1.64e-04 -2.40e-03 4.24e-03 -3.47e-03 7.53e-03 -1.62e-02  
## 1211 1.95e-02 3.66e-04 5.00e-03 2.14e-02 -1.08e-02 5.10e-03 -5.07e-02  
## 1212 1.83e-02 -3.52e-03 7.28e-03 -1.61e-03 -1.84e-02 6.53e-03 -4.98e-02  
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## 1214 -6.72e-04 -2.28e-03 -2.59e-03 -3.25e-04 -1.34e-03 -3.43e-03 8.38e-03  
## 1215 -2.31e-02 2.31e-03 4.61e-03 9.30e-03 -8.53e-03 6.70e-03 -5.74e-02  
## 1216 -1.06e-02 -1.63e-02 -3.73e-03 -7.89e-04 -1.21e-02 2.68e-03 3.85e-02  
## 1217 -2.47e-02 -7.44e-03 1.38e-02 -1.88e-02 -9.31e-03 -2.40e-03 5.13e-02  
## 1218 8.50e-03 3.64e-03 -1.34e-02 1.27e-02 -5.51e-03 1.97e-02 5.83e-02  
## 1219 -8.33e-03 -1.88e-03 -4.03e-03 -9.13e-03 -1.92e-03 9.30e-04 -2.29e-02  
## 1220 -1.05e-02 -7.98e-03 6.25e-03 -1.45e-03 -1.47e-02 3.97e-03 -3.55e-02  
## 1221 -6.27e-03 -5.47e-03 2.13e-02 -1.80e-02 1.11e-02 -2.04e-02 -7.79e-02  
## 1222 2.14e-02 1.47e-02 1.19e-02 -3.81e-03 1.33e-02 1.23e-04 -9.31e-02  
## 1223 1.33e-04 -1.76e-04 -1.66e-03 2.15e-03 -6.36e-04 4.31e-03 -9.74e-03  
## 1224 1.18e-02 8.42e-03 1.24e-02 -1.37e-02 1.31e-02 -4.87e-03 4.39e-02  
## 1225 -9.28e-03 -1.79e-02 -4.82e-03 2.32e-02 1.02e-03 3.89e-03 6.18e-02  
## 1226 3.41e-03 -1.89e-03 -2.49e-03 1.14e-04 9.21e-04 -3.94e-04 -1.13e-02  
## 1227 1.67e-02 -1.44e-02 1.86e-02 6.52e-03 7.10e-03 6.19e-04 4.70e-02  
## 1228 -1.63e-02 -8.39e-03 8.68e-03 -6.06e-03 -5.74e-03 -2.35e-03 3.52e-02  
## 1229 -3.42e-02 1.99e-02 -3.32e-02 -8.34e-03 -2.94e-02 -1.56e-03 -8.73e-02  
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## 1231 -1.82e-03 -1.43e-03 -2.84e-03 3.10e-03 2.74e-03 2.78e-03 2.19e-02  
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## 1233 -1.08e-02 -8.01e-03 6.30e-03 -1.29e-03 -1.57e-02 4.38e-03 -3.60e-02  
## 1234 -7.08e-04 2.19e-03 1.99e-03 2.79e-03 -3.56e-03 3.37e-03 1.11e-02  
## 1235 7.92e-03 -1.62e-03 1.02e-03 -3.04e-03 -3.51e-03 7.23e-03 -3.28e-02  
## 1236 8.88e-03 -4.59e-04 -1.05e-02 -1.26e-02 -1.39e-02 4.61e-04 6.04e-02  
## 1237 -2.55e-03 -8.67e-03 -8.09e-03 5.78e-03 -8.41e-03 8.35e-04 2.03e-02  
## 1238 -2.46e-02 -1.02e-02 -9.62e-03 1.49e-02 -1.15e-02 -4.19e-03 5.01e-02  
## 1239 4.28e-03 -6.13e-03 9.33e-03 1.63e-03 5.86e-04 4.65e-03 4.05e-02  
## 1240 -6.16e-03 -5.61e-03 -2.47e-02 3.47e-03 8.71e-03 -2.25e-02 -7.11e-02  
## 1241 1.32e-02 3.94e-02 -2.27e-02 6.15e-02 4.73e-02 -2.56e-02 -1.09e-01  
## 1242 -1.68e-02 -2.35e-03 -4.54e-03 7.57e-03 9.97e-03 -5.96e-03 8.21e-02  
## 1243 -1.03e-02 -1.69e-02 -4.44e-03 8.16e-03 -4.04e-04 -2.57e-04 5.12e-02  
## 1244 1.50e-02 1.26e-02 1.63e-02 -1.74e-02 1.72e-02 -4.65e-03 5.51e-02  
## 1245 -2.45e-02 6.06e-03 -2.61e-02 -3.60e-03 -2.21e-02 1.63e-02 -6.81e-02  
## 1246 -6.24e-03 -5.83e-03 -2.39e-02 -1.73e-02 7.15e-03 -2.10e-02 -7.25e-02  
## 1247 8.27e-04 7.43e-03 8.66e-03 -5.98e-03 3.45e-03 5.29e-03 2.42e-02  
## 1248 -1.34e-02 -7.92e-03 -2.36e-02 -5.01e-04 -2.98e-02 1.05e-02 -5.86e-02  
## 1249 -2.50e-03 -4.54e-03 4.04e-03 -2.77e-03 -1.09e-02 9.06e-03 2.02e-02  
## 1250 1.88e-02 -4.10e-03 6.77e-03 -1.90e-03 -1.61e-02 6.03e-03 -4.32e-02  
## 1251 1.36e-02 8.69e-03 7.89e-03 -6.46e-04 7.23e-03 3.42e-03 2.89e-02  
## 1252 -1.49e-02 -9.29e-04 1.94e-02 1.97e-03 8.41e-03 -2.72e-02 -9.32e-02  
## 1253 1.57e-03 -7.07e-04 2.57e-03 -3.06e-04 2.93e-03 -1.54e-03 -9.99e-03  
## 1254 -1.59e-02 5.43e-03 1.35e-02 5.80e-03 3.74e-03 -5.55e-04 5.19e-02  
## 1255 -2.34e-05 -7.19e-04 -3.44e-04 -9.55e-04 -2.57e-04 5.00e-04 -2.33e-03  
## 1256 1.12e-02 -1.69e-02 -4.08e-02 8.04e-03 -1.46e-02 -1.17e-02 -1.03e-01  
## 1257 1.98e-03 5.31e-03 -1.24e-02 1.17e-02 -8.98e-03 4.59e-03 4.79e-02  
## 1258 1.50e-02 -1.88e-03 -1.33e-02 2.80e-03 2.76e-02 -1.68e-02 7.65e-02  
## 1259 2.60e-03 2.27e-04 -1.02e-02 1.97e-03 -7.89e-03 3.12e-03 4.63e-02  
## 1260 2.94e-02 3.40e-02 3.10e-03 2.23e-02 1.52e-02 -2.91e-02 -1.11e-01  
## 1261 3.55e-04 3.37e-03 -1.81e-03 -1.61e-04 2.45e-03 5.44e-03 1.45e-02  
## 1262 -3.57e-03 1.37e-04 1.19e-02 -2.32e-03 5.47e-03 6.97e-03 4.26e-02  
## 1263 1.59e-02 1.19e-02 -1.25e-02 4.04e-03 2.11e-02 -1.71e-02 9.27e-02  
## 1264 -3.03e-04 -1.88e-04 1.58e-04 1.66e-04 1.50e-04 -8.22e-06 -8.22e-04  
## 1265 7.58e-03 8.54e-04 1.34e-02 -2.20e-02 7.08e-03 -1.76e-02 -9.68e-02  
## 1266 7.86e-08 8.04e-07 1.35e-06 -1.03e-06 3.65e-07 1.08e-06 3.81e-06  
## 1267 1.19e-04 -5.46e-04 -1.22e-03 3.70e-04 -6.27e-04 3.08e-03 -7.30e-03  
## 1268 3.85e-03 -1.68e-03 -2.53e-03 2.02e-03 -3.26e-05 -3.01e-03 1.26e-02  
## 1269 -2.05e-03 -5.66e-03 3.16e-03 3.12e-03 -7.79e-03 6.33e-03 1.88e-02  
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## 1271 -4.64e-04 9.37e-03 -3.47e-03 -5.90e-03 1.39e-03 1.17e-02 2.72e-02  
## 1272 -2.77e-03 -4.55e-03 -3.24e-03 -7.51e-03 -2.99e-03 2.87e-03 -1.89e-02  
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## 1274 1.29e-04 -5.15e-05 3.30e-03 -7.89e-05 -1.57e-03 4.87e-03 -9.37e-03  
## 1275 -3.72e-03 -2.48e-03 5.56e-03 -2.40e-03 9.18e-04 -3.24e-03 2.28e-02  
## 1276 -8.37e-04 1.01e-03 -5.80e-03 -7.27e-03 -4.72e-03 1.50e-03 1.52e-02  
## 1277 1.86e-04 1.65e-03 -7.94e-04 -1.36e-03 -1.34e-03 3.02e-03 6.76e-03  
## 1278 -7.50e-04 -5.36e-04 -3.84e-03 -4.44e-03 -2.65e-03 -4.96e-04 9.34e-03  
## 1279 -2.84e-02 2.15e-03 -1.26e-02 1.50e-02 -1.98e-02 -1.52e-03 6.78e-02  
## 1280 7.51e-04 5.88e-03 -2.92e-03 4.55e-03 1.32e-04 8.08e-03 2.01e-02  
## 1281 8.56e-06 -1.02e-03 -1.21e-03 -4.17e-03 -2.16e-03 3.93e-03 -9.54e-03  
## 1282 8.89e-03 -3.61e-03 2.44e-03 -1.68e-03 -6.43e-03 8.26e-03 -3.88e-02  
## 1283 -1.36e-02 1.18e-02 1.43e-02 -1.07e-02 -3.46e-03 -1.08e-02 5.40e-02  
## 1284 -9.73e-03 -2.11e-02 -5.29e-03 8.45e-03 1.95e-03 -1.78e-02 6.24e-02  
## 1285 8.80e-05 -8.89e-04 -1.22e-03 -3.84e-03 -1.99e-03 4.29e-03 -9.44e-03  
## 1286 -2.20e-03 3.89e-03 -3.68e-03 3.53e-03 1.46e-03 3.00e-03 -1.52e-02  
## 1287 6.02e-04 -5.93e-04 -8.65e-04 -4.44e-05 9.14e-04 -1.40e-04 -3.13e-03  
## 1288 -1.62e-02 7.71e-05 -2.41e-02 -2.17e-03 -3.43e-02 8.34e-03 -7.69e-02  
## 1289 5.58e-04 -6.30e-04 -1.03e-03 7.93e-04 7.62e-04 -1.45e-04 -3.32e-03  
## 1290 6.54e-04 3.08e-03 -1.47e-03 -2.70e-03 -2.26e-04 4.87e-03 1.12e-02  
## 1291 -6.23e-03 -1.46e-03 -2.57e-02 1.94e-03 8.81e-03 -2.13e-02 -7.32e-02  
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## 1293 2.84e-02 -1.60e-03 3.30e-02 -3.00e-02 1.86e-02 6.73e-04 8.27e-02  
## 1294 1.88e-02 8.28e-03 3.09e-02 2.25e-03 3.17e-02 -5.24e-03 6.70e-02  
## 1295 -8.50e-03 2.59e-03 8.95e-03 2.53e-03 -6.42e-04 -6.77e-03 4.02e-02  
## 1296 -5.99e-03 -2.82e-04 2.05e-02 -2.45e-03 1.72e-02 -1.89e-02 -8.02e-02  
## 1297 7.11e-04 2.99e-03 -1.32e-03 1.40e-04 -6.46e-04 4.85e-03 1.05e-02  
## 1298 -3.68e-03 -3.75e-03 6.84e-03 -3.34e-04 -2.09e-03 2.61e-03 -2.18e-02  
## 1299 -1.45e-03 2.23e-03 -2.32e-03 3.36e-03 -2.80e-04 -9.14e-04 8.67e-03  
## 1300 1.86e-04 2.16e-04 -2.43e-03 4.35e-03 -3.42e-03 7.72e-03 -1.66e-02  
## 1301 1.68e-02 -3.11e-03 3.06e-03 1.80e-02 -4.17e-03 3.04e-03 -4.81e-02  
## 1302 1.09e-02 -9.75e-03 -7.76e-03 -1.62e-02 -1.20e-02 6.80e-04 4.72e-02  
## 1303 1.56e-03 3.24e-02 -5.38e-02 2.26e-03 1.28e-02 -5.24e-02 -1.39e-01  
## 1304 -6.08e-03 -2.28e-04 -3.91e-03 5.44e-03 -1.44e-03 -3.64e-03 1.55e-02  
## 1305 -1.60e-02 -3.36e-03 2.52e-03 -3.12e-03 -7.45e-03 6.09e-03 -4.04e-02  
## 1306 -2.04e-02 -4.76e-04 4.63e-03 -4.14e-03 -1.08e-02 4.30e-03 -4.40e-02  
## 1307 9.15e-03 8.12e-03 2.53e-03 -8.13e-03 -6.68e-03 1.92e-03 -4.99e-02  
## 1308 -1.10e-02 2.06e-03 -7.03e-03 -2.78e-03 -1.56e-04 -2.29e-03 3.69e-02  
## 1309 -5.69e-03 -6.86e-04 -2.96e-03 -3.89e-03 -3.05e-03 7.21e-04 1.40e-02  
## 1310 9.76e-03 3.70e-02 5.81e-03 -1.57e-02 7.48e-03 4.46e-03 -8.53e-02  
## 1311 -3.68e-02 -8.60e-03 1.82e-02 -1.76e-02 -2.97e-02 9.31e-03 -1.07e-01  
## 1312 1.41e-04 3.91e-03 7.05e-04 -1.93e-03 -8.84e-04 2.18e-03 7.00e-03  
## 1313 -3.13e-03 -5.88e-03 -1.08e-02 4.97e-03 -1.43e-02 8.44e-03 2.59e-02  
## 1314 -3.61e-03 -6.45e-03 6.29e-03 5.25e-03 -1.59e-02 8.69e-03 3.19e-02  
## 1315 -2.58e-02 -5.13e-03 -1.28e-02 1.27e-03 -9.88e-03 -6.70e-03 5.49e-02  
## 1316 1.12e-02 1.94e-02 4.00e-02 -1.40e-02 5.20e-02 -4.00e-02 -1.08e-01  
## 1317 -9.25e-03 4.35e-03 1.06e-02 1.25e-02 1.49e-02 -6.06e-03 4.21e-02  
## 1318 -2.59e-03 3.64e-03 4.24e-03 3.68e-03 9.81e-04 1.94e-03 -1.51e-02  
## 1319 -2.87e-03 -6.61e-03 -8.98e-03 -1.40e-02 -1.41e-02 7.65e-03 2.91e-02  
## 1320 2.89e-05 -9.43e-05 4.58e-04 2.98e-04 2.13e-05 6.41e-04 -1.47e-03  
## 1321 9.90e-03 2.92e-02 -1.78e-02 -1.74e-02 4.12e-02 -3.60e-02 -1.02e-01  
## 1322 -1.06e-02 -1.02e-02 6.52e-03 -6.16e-04 -1.30e-02 -6.72e-04 -4.13e-02  
## 1323 5.28e-03 -1.04e-03 -3.65e-03 -5.05e-03 9.03e-04 -2.91e-03 1.99e-02  
## 1324 3.16e-03 -3.29e-03 8.77e-03 2.56e-02 6.69e-03 -3.16e-02 -8.99e-02  
## 1325 3.79e-03 -8.38e-03 7.15e-03 2.18e-03 -1.75e-03 -1.38e-03 2.88e-02  
## 1326 1.87e-04 -1.46e-05 -2.43e-03 3.69e-03 -2.74e-03 7.58e-03 -1.63e-02  
## 1327 2.70e-03 3.67e-03 -6.16e-03 -3.15e-03 -3.27e-04 3.08e-04 2.10e-02  
## 1328 9.74e-03 8.60e-03 -1.44e-02 1.20e-02 -8.50e-03 2.79e-02 6.55e-02  
## 1329 2.56e-04 -4.72e-04 -1.57e-03 2.45e-03 -4.87e-04 4.05e-03 -9.65e-03  
## 1330 3.40e-03 -8.28e-04 -4.76e-03 6.93e-03 4.17e-03 -3.67e-03 2.06e-02  
## 1331 -1.01e-02 -1.27e-02 1.40e-02 2.59e-03 1.69e-02 -3.34e-02 -8.19e-02  
## 1332 -5.44e-03 -8.27e-03 2.00e-02 -1.73e-02 1.42e-02 -1.98e-02 -6.66e-02  
## 1333 1.36e-02 -4.48e-04 2.34e-02 -2.49e-02 2.33e-02 -4.38e-03 6.47e-02  
## 1334 -5.14e-07 2.19e-04 6.89e-05 -2.37e-04 -2.74e-05 2.24e-05 4.79e-04  
## 1335 1.04e-02 1.96e-02 -1.80e-02 -1.38e-02 4.51e-02 -3.84e-02 -9.06e-02  
## 1336 8.62e-03 4.44e-02 4.69e-03 2.58e-03 2.66e-02 -3.75e-02 -1.03e-01  
## 1337 -1.57e-02 -5.54e-04 1.65e-02 2.09e-02 1.83e-02 -1.21e-02 -8.67e-02  
## 1338 2.22e-04 7.88e-03 1.21e-03 2.25e-03 -1.78e-03 3.93e-03 1.22e-02  
## 1339 -8.60e-04 -7.32e-04 -7.71e-04 -8.21e-05 -9.07e-04 1.16e-04 3.58e-03  
## 1340 -1.62e-03 -7.66e-03 3.26e-03 4.58e-03 -4.08e-03 -4.52e-04 1.58e-02  
## 1341 -6.85e-04 2.84e-03 -4.04e-03 -1.42e-03 -2.17e-03 1.61e-02 4.12e-02  
## 1342 1.85e-02 4.60e-03 7.95e-03 -4.81e-03 -9.94e-03 1.12e-02 -5.82e-02  
## 1343 8.10e-05 8.36e-03 -6.09e-03 3.38e-03 -2.42e-03 2.46e-03 1.40e-02  
## 1344 -2.11e-02 -3.24e-03 6.47e-03 -2.31e-03 -1.58e-02 4.30e-03 -5.13e-02  
## 1345 -1.36e-02 -1.69e-02 -5.17e-03 7.63e-03 -6.76e-03 -6.86e-03 5.51e-02  
## 1346 -2.07e-03 -2.45e-03 -2.04e-03 -4.57e-03 -6.16e-04 1.14e-03 -1.10e-02  
## 1347 -2.52e-03 -7.11e-03 -9.03e-03 -1.29e-03 -1.10e-02 6.28e-03 2.28e-02  
## 1348 1.09e-03 -8.97e-05 -3.00e-03 2.57e-03 -1.45e-03 9.09e-04 -1.29e-02  
## 1349 6.40e-05 3.70e-04 3.57e-04 -2.02e-04 -3.33e-05 4.84e-04 -1.07e-03  
## 1350 -2.47e-02 7.40e-03 6.29e-03 -5.35e-03 -1.24e-02 1.05e-02 -6.24e-02  
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## 1352 1.89e-02 8.82e-03 -1.07e-02 -1.54e-02 2.28e-02 -3.50e-03 6.33e-02  
## 1353 -6.94e-03 -1.71e-02 -3.67e-03 -1.39e-02 -5.93e-03 2.06e-04 4.70e-02  
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## 1355 8.79e-03 -1.76e-03 2.48e-03 -2.26e-03 -7.07e-03 1.02e-02 -3.21e-02  
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## 1358 -1.33e-02 -8.22e-03 9.21e-03 -7.36e-04 -2.13e-02 8.44e-04 -3.98e-02  
## 1359 3.07e-03 -1.41e-03 -5.79e-03 4.06e-03 5.31e-03 -2.01e-03 -1.73e-02  
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## 1361 4.72e-02 4.47e-02 1.47e-02 2.77e-02 4.18e-03 2.00e-02 -1.38e-01  
## 1362 -1.71e-02 -3.20e-03 4.30e-03 -2.77e-03 -1.12e-02 8.20e-03 -4.37e-02  
## 1363 1.35e-02 -1.25e-02 -3.29e-03 1.07e-02 4.10e-03 6.18e-03 5.13e-02  
## 1364 3.59e-03 -9.46e-04 2.58e-03 1.66e-03 4.03e-03 1.24e-04 1.03e-02  
## 1365 9.25e-04 -7.44e-03 -7.63e-03 1.22e-02 -6.81e-03 -3.96e-03 3.57e-02  
## 1366 -9.46e-06 4.46e-03 -3.60e-03 -4.01e-03 -1.62e-03 1.06e-03 8.99e-03  
## 1367 -1.45e-02 -7.26e-03 3.74e-03 -6.64e-04 -9.40e-03 5.21e-03 -3.96e-02  
## 1368 -1.47e-02 -7.56e-03 3.05e-02 2.11e-02 2.11e-02 -1.54e-02 7.23e-02  
## 1369 -2.20e-03 -5.04e-03 3.36e-03 2.70e-03 -8.67e-03 8.18e-03 2.13e-02  
## 1370 -2.19e-04 2.80e-04 -2.92e-04 4.10e-04 -1.19e-04 -1.51e-04 1.06e-03  
## 1371 -1.68e-06 2.54e-04 -3.16e-04 -3.01e-04 -7.32e-05 -1.24e-05 7.28e-04  
## 1372 2.18e-02 -2.92e-02 1.67e-02 -1.91e-02 1.10e-02 9.40e-03 -8.17e-02  
## 1373 -1.08e-02 -1.42e-03 -6.75e-03 5.68e-03 2.81e-03 -9.55e-04 -2.56e-02  
## 1374 5.63e-03 -1.10e-02 -3.15e-03 -6.69e-03 -8.36e-03 1.44e-03 2.97e-02  
## 1375 -2.66e-03 -1.36e-03 2.83e-03 1.87e-03 -2.44e-03 3.59e-03 -1.21e-02  
## 1376 -1.43e-03 -1.81e-03 -1.96e-03 -5.00e-03 7.71e-04 5.33e-03 1.97e-02  
## 1377 1.83e-02 9.43e-03 2.66e-02 1.76e-02 3.75e-02 -2.94e-03 6.12e-02  
## 1378 -4.07e-04 -1.52e-03 1.26e-03 2.65e-03 -6.44e-04 -1.69e-03 6.69e-03  
## 1379 -3.51e-03 -7.80e-03 1.55e-02 3.61e-02 2.32e-02 -1.71e-02 -7.64e-02  
## 1380 -1.81e-02 1.22e-03 1.07e-02 -6.16e-03 -2.23e-02 -4.66e-03 -5.92e-02  
## 1381 -2.18e-04 8.01e-03 -4.47e-03 -1.24e-03 4.68e-03 1.36e-03 2.26e-02  
## 1382 6.27e-04 -8.49e-04 -1.33e-03 8.86e-05 9.29e-04 -4.47e-04 -4.17e-03  
## 1383 3.24e-04 3.38e-04 -1.95e-03 2.92e-03 -1.50e-03 6.29e-03 -1.25e-02  
## 1384 1.21e-02 -6.99e-03 -1.06e-02 -9.81e-03 -1.35e-02 2.06e-03 5.47e-02  
## 1385 2.07e-02 9.00e-03 4.78e-03 -1.02e-02 7.67e-04 8.31e-03 -6.78e-02  
## 1386 8.02e-03 -2.74e-03 -4.86e-03 -4.16e-04 -2.88e-04 9.68e-04 -2.46e-02  
## 1387 1.80e-02 -6.92e-03 -8.40e-03 8.48e-03 1.31e-02 -1.05e-02 6.46e-02  
## 1388 -1.93e-04 -3.64e-04 5.22e-04 -6.89e-04 -3.69e-04 -1.27e-04 2.51e-03  
## 1389 -2.41e-03 -4.83e-03 4.52e-03 3.61e-03 -1.10e-02 9.50e-03 2.22e-02  
## 1390 -1.48e-04 -3.19e-03 -2.60e-03 5.65e-03 -9.90e-04 6.40e-03 2.33e-02  
## 1391 2.64e-02 -7.96e-03 1.79e-02 -1.49e-02 3.29e-02 2.70e-03 -1.02e-01  
## 1392 2.21e-03 -2.09e-04 8.49e-03 1.59e-03 2.88e-03 -3.06e-02 -9.19e-02  
## 1393 -2.80e-02 2.91e-03 -1.22e-02 -1.67e-02 2.11e-02 -1.84e-02 8.09e-02  
## 1394 1.31e-02 -1.10e-02 -9.59e-03 6.24e-03 1.61e-02 -1.07e-02 5.82e-02  
## 1395 -4.82e-04 1.04e-03 1.53e-03 2.51e-03 -2.52e-03 2.75e-03 9.71e-03  
## 1396 -2.14e-03 -5.31e-03 3.31e-03 2.83e-03 -8.10e-03 7.32e-03 2.04e-02  
## 1397 8.97e-03 -2.34e-03 2.27e-03 7.32e-03 -6.02e-03 1.94e-02 -4.67e-02  
## 1398 3.54e-02 8.05e-03 1.61e-02 -2.63e-03 6.27e-03 -1.30e-02 -9.57e-02  
## 1399 -2.55e-02 -9.88e-04 -1.07e-02 5.93e-04 -1.65e-02 -1.21e-03 6.18e-02  
## 1400 -1.12e-04 1.78e-03 7.20e-04 -1.95e-03 -7.16e-04 -1.61e-04 4.68e-03  
## 1401 -1.21e-02 -7.19e-03 -2.01e-02 -8.87e-04 -2.17e-02 5.02e-03 -4.46e-02  
## 1402 4.30e-05 -2.07e-04 8.21e-04 7.14e-05 -3.78e-05 8.98e-04 -2.51e-03  
## 1403 -1.20e-02 2.40e-02 -1.16e-02 8.68e-03 5.51e-03 2.56e-03 5.15e-02  
## 1404 -6.61e-04 -2.56e-03 -2.83e-03 1.30e-04 -3.17e-03 9.55e-03 2.34e-02  
## 1405 -1.40e-02 -1.65e-02 -5.74e-03 -1.74e-02 4.94e-03 6.99e-03 6.17e-02  
## 1406 6.75e-03 -3.66e-03 1.08e-03 -1.13e-03 -3.28e-03 8.95e-03 -2.57e-02  
## 1407 -1.25e-02 -9.26e-03 -3.01e-03 -2.68e-02 1.27e-03 -1.22e-02 7.86e-02  
## 1408 -2.61e-02 2.61e-03 7.66e-03 -4.58e-03 -1.46e-02 8.78e-03 -6.08e-02  
## 1409 -3.92e-03 -1.93e-03 -2.41e-03 5.80e-06 -3.14e-03 -1.25e-03 -9.38e-03  
## 1410 2.50e-02 -1.72e-02 2.13e-02 6.31e-03 1.09e-02 -4.28e-03 5.76e-02  
## 1411 -2.15e-03 -6.84e-05 -2.51e-03 -9.73e-04 3.55e-04 6.92e-03 2.27e-02  
## 1412 -1.58e-03 3.82e-03 -3.85e-03 -2.29e-04 1.73e-03 -2.02e-03 1.98e-02  
## 1413 1.39e-03 -3.94e-04 -8.84e-03 -8.87e-03 -1.32e-02 3.40e-03 5.07e-02  
## 1414 -8.78e-03 -1.28e-02 -2.41e-03 -7.81e-03 -2.74e-03 1.21e-02 3.60e-02  
## 1415 7.15e-05 -4.99e-04 2.02e-03 -2.18e-03 -7.14e-04 2.28e-03 -5.29e-03  
## 1416 -7.28e-03 -1.69e-02 -1.64e-03 9.81e-03 -5.79e-03 1.13e-02 4.87e-02  
## 1417 1.57e-02 -4.76e-03 3.17e-03 7.45e-03 -5.38e-03 6.06e-03 -3.91e-02  
## 1418 -1.81e-05 -1.64e-04 1.65e-04 -9.87e-06 5.66e-05 -3.43e-04 -8.31e-04  
## 1419 7.16e-03 2.39e-03 3.33e-03 -4.03e-03 -6.92e-03 1.47e-02 -4.20e-02  
## 1420 -1.04e-05 -4.48e-05 2.90e-05 6.61e-05 7.24e-06 -4.98e-05 1.86e-04  
## 1421 -1.79e-02 -1.32e-02 -1.01e-02 3.07e-03 -1.39e-02 -1.52e-02 6.13e-02  
## 1422 2.77e-03 -1.09e-03 -1.34e-03 1.96e-03 -9.34e-05 1.25e-03 8.75e-03  
## 1423 1.48e-02 -1.20e-02 1.86e-02 6.85e-03 1.38e-02 6.16e-04 5.53e-02  
## 1424 -3.85e-03 -8.58e-03 1.60e-02 8.38e-04 1.85e-02 -1.33e-02 -6.50e-02  
## 1425 -9.09e-06 3.24e-04 1.67e-04 4.68e-04 2.51e-05 -2.70e-04 1.20e-03  
## 1426 -1.04e-03 9.00e-04 3.05e-03 -3.88e-03 -5.10e-03 1.56e-03 1.43e-02  
## 1427 7.88e-03 8.31e-04 -4.75e-03 -7.92e-03 -6.13e-03 1.84e-03 2.97e-02  
## 1428 -1.19e-03 -5.50e-03 2.21e-03 -4.69e-03 -2.66e-03 -6.83e-04 1.00e-02  
## 1429 6.41e-03 -7.39e-03 -9.23e-03 1.08e-02 -7.26e-03 -1.16e-02 4.94e-02  
## 1430 9.83e-03 4.33e-03 3.70e-03 -1.48e-02 -1.16e-02 1.92e-02 -5.00e-02  
## 1431 -4.47e-03 -1.61e-02 -1.88e-03 -5.50e-04 -1.28e-02 1.10e-02 3.86e-02  
## 1432 -1.60e-02 -3.32e-03 4.08e-03 -1.89e-03 -1.07e-02 1.35e-02 -4.00e-02  
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## 1435 -1.40e-02 -6.29e-03 7.07e-03 1.02e-02 -1.33e-02 5.08e-03 -5.30e-02  
## 1436 -5.63e-04 1.69e-03 1.57e-03 -3.77e-03 -3.41e-03 4.01e-03 1.08e-02  
## 1437 -6.84e-03 6.08e-03 -1.90e-03 -1.27e-02 -5.55e-03 9.40e-03 4.79e-02  
## 1438 -1.23e-03 -1.60e-03 9.10e-03 4.46e-03 6.30e-03 3.91e-03 2.82e-02  
## 1439 6.49e-03 -4.08e-03 -1.24e-02 1.20e-02 -6.32e-03 -1.39e-03 5.35e-02  
## 1440 -5.83e-04 1.01e-02 -5.14e-03 3.88e-03 8.25e-03 -3.09e-03 2.90e-02  
## 1441 -1.55e-02 -1.24e-02 -6.31e-03 2.56e-02 1.22e-02 -1.99e-02 7.86e-02  
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## 1444 -1.77e-03 -6.84e-03 3.28e-03 -2.47e-04 -4.86e-03 1.03e-03 1.32e-02  
## 1445 -3.30e-03 -5.55e-03 5.96e-03 -1.55e-02 -1.51e-02 9.69e-03 3.23e-02  
## 1446 -2.76e-03 -6.77e-03 -9.80e-03 4.59e-03 -1.19e-02 7.19e-03 2.50e-02  
## 1447 9.67e-03 -9.97e-03 1.30e-02 1.29e-02 -8.46e-03 -9.28e-03 5.32e-02  
## 1448 -1.46e-02 -1.76e-02 -5.90e-03 -3.32e-03 -9.92e-03 -5.54e-03 5.90e-02  
## 1449 -1.40e-02 -9.01e-03 -4.75e-03 6.55e-03 8.67e-03 -6.23e-03 6.00e-02  
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## 1453 -4.88e-04 4.31e-03 -5.50e-03 9.31e-03 7.36e-03 1.21e-03 4.88e-02  
## 1454 1.06e-02 2.00e-02 -1.88e-02 1.24e-02 4.70e-02 -4.01e-02 -9.05e-02  
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## 1456 -1.26e-02 -4.70e-03 7.64e-03 -2.71e-03 -1.50e-02 1.79e-02 -5.60e-02  
## 1457 2.18e-02 -1.37e-02 2.19e-02 -8.03e-03 1.58e-02 -1.17e-02 6.85e-02  
## 1458 -3.85e-04 -6.26e-04 1.19e-03 2.36e-03 -5.64e-04 -9.90e-04 6.40e-03  
## 1459 -1.54e-02 -6.35e-03 -2.29e-02 -5.89e-04 -2.93e-02 1.75e-04 -4.91e-02  
## 1460 -1.95e-02 -8.07e-03 9.65e-03 9.17e-03 -1.75e-03 -6.31e-03 3.97e-02  
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## 1462 1.26e-03 -4.03e-03 -1.06e-02 8.85e-04 -5.17e-03 3.38e-03 3.50e-02  
## 1463 -1.51e-02 8.87e-03 -8.96e-03 1.60e-02 -1.11e-02 -4.33e-03 5.27e-02  
## 1464 -6.96e-03 4.19e-04 -3.43e-03 -6.12e-03 5.68e-04 4.66e-03 2.48e-02  
## 1465 1.40e-02 2.84e-02 -3.77e-02 2.86e-02 -1.04e-02 6.23e-03 -8.98e-02  
## 1466 -2.31e-03 -5.84e-03 3.92e-03 3.77e-03 -8.89e-03 6.14e-03 1.84e-02  
## 1467 2.74e-02 -1.32e-02 2.60e-02 -7.49e-03 1.13e-02 -5.40e-03 6.57e-02  
## 1468 -1.36e-02 -1.31e-03 8.88e-03 1.06e-02 -1.71e-02 1.76e-03 -5.22e-02  
## 1469 8.76e-03 7.14e-03 4.15e-03 -5.82e-03 -3.48e-03 1.00e-02 -4.49e-02  
## 1470 -1.37e-02 -1.50e-02 -4.90e-03 -1.51e-02 4.61e-04 3.74e-03 5.27e-02  
## 1471 -1.07e-04 6.59e-03 8.47e-03 1.63e-04 1.40e-03 6.37e-03 2.32e-02  
## 1472 -2.45e-03 -4.86e-03 4.25e-03 3.37e-03 -1.04e-02 8.61e-03 2.11e-02  
## 1473 1.18e-02 7.31e-04 1.33e-02 -2.16e-02 5.20e-04 -3.16e-02 -1.11e-01  
## 1474 1.10e-02 1.86e-02 4.52e-03 -1.07e-02 3.96e-03 3.92e-03 -6.34e-02  
## 1475 -8.09e-03 2.86e-03 -7.97e-03 6.33e-03 -3.33e-03 -1.85e-03 4.75e-02  
## 1476 6.30e-03 3.05e-04 5.62e-03 8.21e-03 6.12e-03 -3.16e-03 2.69e-02  
## 1477 1.05e-03 -4.46e-04 2.05e-03 -1.78e-04 -5.69e-05 1.36e-03 -8.57e-03  
## 1478 -1.54e-02 4.16e-04 -5.88e-03 7.04e-03 1.70e-02 -2.74e-02 9.45e-02  
## 1479 3.84e-04 1.23e-04 2.13e-04 3.98e-05 9.71e-05 7.59e-05 -8.64e-04  
## 1480 6.47e-04 9.62e-03 -2.58e-03 5.53e-03 -5.30e-04 1.01e-02 2.79e-02  
## 1481 8.62e-03 -1.01e-04 1.17e-03 -3.84e-03 -3.39e-03 6.17e-03 -3.69e-02  
## 1482 -4.72e-03 2.90e-03 2.10e-02 2.18e-02 1.68e-02 -2.11e-04 -9.18e-02  
## 1483 -1.88e-03 3.81e-03 -3.64e-03 8.97e-03 -2.41e-05 8.17e-03 3.92e-02  
## 1484 1.99e-03 3.63e-04 1.03e-02 8.78e-03 -1.48e-03 4.00e-03 3.76e-02  
## 1485 1.16e-03 1.54e-03 -4.39e-03 4.57e-03 -2.78e-05 -2.01e-03 1.44e-02  
## 1486 6.52e-03 -8.70e-04 -2.75e-03 -4.45e-03 -8.27e-03 1.19e-03 2.43e-02  
## 1487 -2.48e-03 -4.79e-03 4.31e-03 3.46e-03 -1.10e-02 9.39e-03 2.17e-02  
## 1488 -1.76e-02 -2.18e-03 3.16e-03 -4.09e-03 -3.06e-03 8.50e-03 -5.31e-02  
## 1489 1.53e-02 -2.94e-03 -1.27e-02 -2.67e-02 1.98e-02 -1.24e-02 6.99e-02  
## 1490 4.71e-03 -2.14e-02 4.57e-02 -2.18e-02 3.76e-02 -3.46e-02 -1.05e-01  
## 1491 -8.49e-03 -1.32e-02 1.03e-02 -7.83e-03 1.48e-03 7.18e-06 3.22e-02  
## 1492 -3.21e-03 -4.92e-03 -1.09e-02 -2.87e-03 -1.60e-02 1.08e-02 2.69e-02  
## 1493 6.14e-03 -9.78e-03 -4.44e-03 -7.86e-03 5.94e-03 1.38e-03 2.97e-02  
## 1494 -1.33e-02 -3.99e-03 -2.37e-02 -3.11e-03 -1.69e-02 1.17e-03 -5.36e-02  
## 1495 -1.16e-02 -1.61e-02 -2.88e-03 9.86e-03 -7.14e-03 9.07e-03 4.94e-02  
## 1496 -1.89e-02 -1.38e-02 -8.89e-03 -5.49e-03 -4.75e-03 -2.03e-03 5.64e-02  
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## 1498 2.32e-03 1.41e-03 -5.49e-03 3.90e-03 -1.32e-03 -1.03e-03 2.15e-02  
## 1499 -3.18e-03 1.32e-02 -3.53e-03 -1.91e-02 -2.65e-03 1.30e-02 6.27e-02  
## 1500 1.83e-02 2.15e-03 -1.04e-02 4.75e-03 2.60e-02 2.39e-03 5.19e-02  
## 1501 -8.23e-03 -9.08e-03 4.69e-03 -8.61e-04 -8.69e-03 3.07e-03 -3.58e-02  
## 1502 -1.60e-03 2.45e-03 -2.60e-03 -2.46e-03 4.80e-05 -1.15e-03 1.35e-02  
## 1503 9.23e-05 -1.33e-03 -9.88e-04 7.11e-04 -8.38e-04 2.23e-03 -6.14e-03  
## 1504 -2.27e-02 -7.96e-03 -7.05e-03 -2.48e-02 5.77e-03 -8.86e-03 8.37e-02  
## 1505 -2.03e-02 7.12e-04 1.10e-02 -4.45e-03 -2.34e-02 4.26e-03 -5.86e-02  
## 1506 7.42e-03 -2.20e-03 -5.58e-03 -4.93e-04 3.27e-03 -2.73e-04 -2.24e-02  
## 1507 1.72e-04 -4.80e-04 3.75e-03 2.53e-03 -8.39e-04 4.07e-03 -1.00e-02  
## 1508 3.17e-02 -8.31e-04 -8.71e-03 6.07e-03 1.99e-02 -8.86e-03 7.82e-02  
## 1509 -1.04e-02 -1.29e-02 1.38e-02 -1.37e-02 1.42e-02 -3.11e-02 -8.09e-02  
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## 1512 -1.82e-02 -6.48e-03 3.71e-02 6.35e-03 1.63e-02 -1.57e-02 8.13e-02  
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## 1514 -2.26e-03 -5.31e-03 4.29e-03 -7.59e-03 -9.89e-03 7.73e-03 1.99e-02  
## 1515 4.27e-02 -1.02e-03 1.90e-02 1.53e-03 1.76e-02 -4.26e-03 -1.02e-01  
## 1516 -3.11e-03 -5.35e-03 -1.15e-02 5.35e-03 -1.66e-02 1.08e-02 3.27e-02  
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## 1518 5.77e-02 3.28e-02 2.42e-02 3.97e-02 3.33e-02 1.97e-02 -1.28e-01  
## 1519 2.76e-03 -1.82e-04 1.19e-02 9.68e-03 -3.86e-03 8.98e-03 3.61e-02  
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## 1522 -2.16e-02 3.43e-03 3.85e-02 2.14e-03 3.33e-02 -3.69e-02 9.46e-02  
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## 1524 -2.69e-02 -4.31e-03 -1.02e-02 2.85e-03 -1.02e-02 4.80e-03 4.97e-02  
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## 1526 2.04e-02 9.97e-03 -2.41e-02 1.38e-02 -3.09e-02 2.57e-02 -8.61e-02  
## 1527 -2.72e-03 -1.22e-02 -7.62e-03 1.88e-03 -8.77e-03 -2.70e-03 2.41e-02  
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## 1529 -2.14e-02 2.88e-03 -2.52e-02 -3.84e-03 -3.10e-02 6.25e-03 -6.64e-02  
## 1530 9.51e-05 1.10e-04 -2.22e-03 3.25e-04 -3.53e-03 7.39e-03 -1.50e-02  
## 1531 9.87e-05 -5.18e-03 1.20e-02 1.42e-03 -8.83e-03 -8.59e-03 5.35e-02  
## 1532 -1.01e-02 -2.56e-03 7.15e-03 5.80e-03 3.31e-03 -1.44e-03 -2.59e-02  
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## 1544 2.28e-02 -1.36e-02 2.04e-02 4.18e-03 2.14e-02 -3.82e-03 5.94e-02  
## 1545 -5.75e-03 -9.16e-03 1.95e-02 -1.68e-02 1.27e-02 -1.91e-02 -6.52e-02  
## 1546 2.45e-02 1.16e-02 -1.15e-02 5.87e-03 1.94e-02 -1.80e-02 1.00e-01  
## 1547 1.82e-05 7.28e-03 1.76e-03 3.50e-03 -1.85e-03 1.15e-03 1.38e-02  
## 1548 -5.74e-03 1.01e-02 7.00e-03 -7.56e-03 -1.45e-03 -2.22e-03 2.74e-02  
## 1549 1.41e-02 -1.47e-02 -6.36e-03 -1.27e-02 1.21e-02 6.68e-05 4.77e-02  
## 1550 -1.75e-03 -7.32e-03 3.26e-03 4.19e-03 -4.10e-03 -9.86e-05 1.41e-02  
## 1551 7.46e-03 -2.24e-03 1.43e-02 3.09e-02 -1.74e-03 -1.90e-02 -1.12e-01  
## 1552 -2.32e-02 1.41e-03 -2.57e-02 -1.56e-03 -3.06e-02 2.77e-02 -7.57e-02  
## 1553 1.21e-03 -6.00e-03 -9.35e-03 2.09e-03 -6.69e-03 -8.69e-03 4.21e-02  
## 1554 1.89e-02 2.02e-03 5.56e-03 7.95e-03 -9.31e-03 1.75e-02 -5.80e-02  
## 1555 -2.38e-03 -5.01e-03 4.47e-03 3.66e-03 -1.06e-02 9.03e-03 2.17e-02  
## 1556 4.50e-03 -9.58e-04 3.54e-03 -4.81e-03 2.03e-03 -8.63e-04 1.75e-02  
## 1557 -1.02e-02 -8.40e-03 6.75e-03 -8.50e-04 -1.42e-02 4.06e-03 -3.61e-02  
## 1558 4.93e-03 -6.37e-03 7.65e-03 7.67e-03 1.93e-03 4.70e-03 4.05e-02  
## 1559 1.74e-02 1.13e-02 3.00e-02 2.45e-04 2.86e-02 1.46e-04 7.19e-02  
## 1560 7.65e-03 -2.81e-03 1.19e-03 -1.90e-03 -3.90e-03 9.13e-03 -3.00e-02  
## 1561 1.23e-02 -1.17e-02 -4.85e-03 7.00e-03 7.95e-03 2.90e-03 4.08e-02  
## 1562 7.02e-04 -8.52e-04 8.27e-04 8.85e-04 8.45e-04 -5.71e-04 -4.47e-03  
## 1563 -2.18e-02 -7.29e-03 -1.07e-02 -1.18e-02 -2.15e-02 -6.21e-03 6.74e-02  
## 1564 -1.82e-02 -8.35e-03 -3.95e-03 8.59e-03 1.27e-02 -5.88e-02 1.16e-01  
## 1565 3.44e-03 -4.26e-03 1.10e-02 1.22e-03 -4.99e-04 6.62e-03 3.54e-02  
## 1566 8.22e-06 3.48e-04 9.03e-05 -3.71e-04 -6.77e-05 1.41e-04 7.60e-04  
## 1567 -2.19e-03 -5.06e-03 3.40e-03 2.73e-03 -8.66e-03 8.22e-03 2.14e-02  
## 1568 -5.03e-03 -7.28e-03 -2.57e-02 1.64e-03 1.51e-02 -2.13e-02 -8.31e-02  
## 1569 -7.15e-03 1.47e-03 -6.06e-03 5.27e-03 8.50e-03 -1.39e-03 3.30e-02  
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## 1571 9.50e-03 5.59e-02 -4.99e-02 -2.04e-02 2.86e-03 -3.35e-02 -1.39e-01  
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## 1573 7.13e-03 -1.08e-02 -3.04e-02 3.16e-02 -3.20e-02 2.12e-02 -9.52e-02  
## 1574 -1.91e-02 8.32e-03 1.72e-02 -2.14e-02 1.53e-02 1.47e-03 -8.69e-02  
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## 1576 -2.14e-02 1.36e-02 1.65e-02 -1.75e-02 -1.09e-02 -5.66e-03 6.42e-02  
## 1577 6.25e-03 -6.55e-03 -9.03e-03 1.20e-02 -2.57e-04 -3.14e-05 4.79e-02  
## 1578 2.40e-03 -1.02e-03 2.70e-03 -2.50e-03 -8.09e-04 1.62e-05 1.04e-02  
## 1579 2.69e-03 5.15e-04 -1.24e-02 -1.21e-02 -1.48e-02 1.09e-02 5.58e-02  
## 1580 -4.18e-03 8.95e-03 -4.08e-03 -5.85e-03 -2.44e-03 -3.21e-03 3.34e-02  
## 1581 -5.36e-03 -1.42e-03 5.62e-03 -1.56e-03 -3.44e-03 -1.31e-03 1.91e-02  
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## 1583 4.27e-06 -3.78e-04 -2.65e-04 6.12e-04 9.94e-06 3.14e-04 -1.59e-03  
## 1584 -4.48e-03 5.85e-03 -2.34e-03 9.36e-03 -1.51e-04 6.12e-03 5.25e-02  
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## 1592 1.97e-02 1.26e-02 -1.30e-02 2.12e-03 3.00e-02 -1.03e-03 6.99e-02  
## 1593 1.43e-02 1.43e-02 -5.50e-03 -7.85e-03 4.63e-03 -6.46e-04 3.30e-02  
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## 1595 1.83e-03 -1.51e-03 2.63e-03 2.71e-03 2.84e-03 -1.74e-03 -1.27e-02  
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## 1599 4.87e-02 9.85e-03 1.75e-02 3.56e-02 2.80e-02 2.45e-03 -9.75e-02  
## 1600 9.47e-03 -1.63e-03 6.81e-03 -2.06e-04 2.36e-03 4.83e-03 1.90e-02  
## 1601 9.97e-05 -5.46e-04 1.68e-03 1.71e-04 -4.20e-04 2.04e-03 -4.59e-03  
## 1602 1.40e-04 6.43e-04 -5.94e-04 1.26e-05 9.13e-05 1.37e-03 4.21e-03  
## 1603 2.44e-02 3.49e-03 5.71e-03 2.55e-02 -1.09e-02 1.75e-02 -8.37e-02  
## 1604 -1.10e-03 3.29e-03 -8.26e-03 4.69e-03 -6.04e-03 3.15e-03 1.70e-02  
## 1605 -9.63e-04 -1.90e-03 -4.88e-03 6.65e-03 1.34e-03 3.31e-03 3.25e-02  
## 1606 -3.30e-03 -5.06e-03 -3.53e-03 1.03e-03 -3.63e-03 1.44e-03 -1.77e-02  
## 1607 2.29e-03 -1.49e-03 2.89e-03 2.69e-03 5.17e-03 -1.59e-03 -1.18e-02  
## 1608 -5.03e-02 5.29e-03 -4.31e-02 -2.75e-02 -3.61e-02 -2.88e-02 -1.36e-01  
## 1609 -1.48e-03 -6.72e-03 2.52e-03 3.66e-03 -2.74e-03 -1.44e-03 1.18e-02  
## 1610 8.20e-04 -5.09e-04 6.27e-04 5.38e-04 -3.83e-04 4.98e-04 -3.13e-03  
## 1611 -4.68e-04 -1.29e-03 -2.48e-03 -2.45e-03 -1.07e-03 -1.78e-03 7.00e-03  
## 1612 1.01e-05 -4.02e-04 8.24e-04 -7.79e-04 -1.23e-04 5.48e-04 -1.91e-03  
## 1613 3.98e-03 -1.00e-02 8.81e-03 2.73e-03 -4.19e-03 -2.68e-03 3.29e-02  
## 1614 1.27e-02 1.42e-03 2.28e-03 -4.90e-03 -4.39e-03 8.11e-03 -5.51e-02  
## 1615 4.36e-03 -2.20e-03 3.48e-03 -2.40e-04 2.64e-03 3.90e-05 -1.32e-02  
## 1616 6.54e-03 -3.91e-03 1.09e-02 -1.98e-02 -2.34e-03 1.45e-02 5.16e-02  
## 1617 -2.78e-02 7.91e-03 5.00e-03 -8.46e-03 -1.09e-02 -3.40e-03 -5.84e-02  
## 1618 -9.36e-04 -1.96e-04 5.43e-04 8.34e-04 1.38e-05 -3.31e-04 2.36e-03  
## 1619 -3.35e-03 2.14e-02 -4.21e-03 -1.08e-02 3.43e-03 7.64e-03 4.16e-02  
## 1620 1.06e-02 -1.00e-02 7.16e-03 -1.85e-02 4.16e-04 -1.86e-02 -8.48e-02  
## 1621 -1.80e-02 -2.03e-03 9.81e-03 2.58e-02 -1.91e-02 4.70e-03 -6.65e-02  
## 1622 1.10e-03 -7.39e-03 7.06e-03 -1.06e-02 -3.98e-03 -1.45e-03 2.81e-02  
## 1623 1.61e-02 6.91e-03 -1.10e-02 2.03e-02 2.75e-02 -9.06e-03 6.37e-02  
## 1624 2.85e-02 -3.72e-03 -3.39e-03 1.04e-02 4.65e-03 -9.06e-03 7.81e-02  
## 1625 5.75e-03 -3.41e-03 -3.86e-03 3.73e-03 1.82e-04 5.10e-04 -1.87e-02  
## 1626 -1.24e-02 -1.40e-02 -2.89e-03 1.05e-02 -1.14e-02 -5.75e-03 6.54e-02  
## 1627 -1.54e-02 2.45e-03 8.87e-03 2.31e-02 -8.10e-03 1.10e-02 -7.60e-02  
## 1628 6.10e-03 -1.21e-02 7.41e-03 5.66e-03 -1.47e-03 -7.38e-03 -7.14e-02  
## 1629 2.98e-03 2.52e-03 1.31e-02 -1.57e-03 -6.08e-03 1.29e-02 3.84e-02  
## 1630 -3.23e-04 3.74e-04 5.03e-04 4.13e-04 2.58e-04 -4.14e-04 2.30e-03  
## 1631 -1.84e-02 2.52e-02 -1.35e-02 1.26e-03 -1.07e-02 -6.47e-03 6.75e-02  
## 1632 -4.81e-04 -1.24e-03 1.27e-03 -2.26e-03 -1.06e-03 -1.47e-03 5.94e-03  
## 1633 1.93e-03 -1.75e-03 2.57e-03 -7.09e-05 3.29e-03 -2.63e-03 1.14e-02  
## 1634 6.69e-03 6.08e-03 -2.96e-03 3.47e-04 4.09e-03 3.78e-03 1.68e-02  
## 1635 -4.93e-03 -8.16e-04 1.70e-02 -3.03e-03 1.99e-02 -1.56e-02 -8.13e-02  
## 1636 -4.84e-04 2.54e-03 1.99e-03 2.84e-03 -3.64e-03 4.91e-03 1.37e-02  
## 1637 3.35e-03 -1.44e-03 3.77e-03 3.41e-03 6.85e-03 -1.10e-03 -1.48e-02  
## 1638 -1.61e-03 -7.44e-03 3.05e-03 4.38e-03 -3.93e-03 -6.12e-04 1.51e-02  
## 1639 -1.18e-02 -1.64e-02 -6.91e-03 7.16e-03 9.90e-03 -2.21e-03 5.64e-02  
## 1640 1.38e-02 1.89e-02 7.24e-03 -2.77e-02 -3.09e-03 2.26e-02 -7.69e-02  
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## 1643 -2.28e-02 2.85e-04 7.43e-03 2.65e-02 -1.69e-02 2.79e-03 -6.24e-02  
## 1644 1.06e-02 -1.43e-02 -5.26e-03 8.29e-03 4.64e-03 6.78e-03 4.89e-02  
## 1645 2.53e-03 -7.42e-03 -6.84e-03 1.05e-02 -2.57e-03 -3.41e-03 3.21e-02  
## 1646 1.60e-02 -4.59e-03 -1.78e-02 -1.15e-02 -1.75e-02 1.12e-02 -4.45e-02  
## 1647 -1.45e-02 -7.45e-03 4.00e-03 -3.18e-04 -9.53e-03 5.53e-03 -4.02e-02  
## 1648 6.43e-03 -6.76e-03 8.97e-03 1.02e-02 5.65e-04 1.50e-03 4.66e-02  
## 1649 -4.00e-05 -9.26e-04 -7.84e-04 -2.40e-03 -1.10e-03 2.25e-03 -5.82e-03  
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## 1651 -6.84e-03 5.62e-04 -2.41e-02 -2.01e-02 6.22e-03 -2.28e-02 -8.72e-02  
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## 1658 -1.35e-02 -7.82e-03 9.49e-03 -8.69e-04 -2.10e-02 1.36e-04 -4.04e-02  
## 1659 1.16e-02 2.18e-02 3.99e-03 -1.32e-02 1.91e-03 -1.33e-02 -7.28e-02  
## 1660 1.21e-02 2.29e-02 -3.86e-02 2.61e-02 -5.80e-03 -1.31e-02 -8.42e-02  
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## 1662 2.56e-04 7.92e-03 1.22e-03 2.25e-03 -1.79e-03 4.05e-03 1.22e-02  
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## 1670 8.81e-05 4.97e-03 1.27e-03 2.91e-03 -1.18e-03 9.87e-04 1.07e-02  
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## 1673 1.58e-04 1.10e-02 1.79e-03 3.32e-03 -3.44e-03 4.94e-03 2.05e-02  
## 1674 -3.07e-03 -1.93e-03 -2.15e-03 2.75e-04 -1.72e-03 3.92e-03 1.78e-02  
## 1675 3.55e-03 3.67e-03 -1.27e-02 1.31e-02 -1.13e-02 1.34e-02 6.69e-02  
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## 1679 2.43e-06 3.82e-04 8.81e-05 -2.04e-04 -6.01e-05 1.25e-04 7.51e-04  
## 1680 2.70e-03 -9.59e-03 1.08e-02 1.22e-02 -1.21e-03 5.56e-04 4.06e-02  
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## 1682 -6.80e-03 2.80e-02 2.16e-02 -1.10e-02 2.06e-02 7.81e-03 -1.12e-01  
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## 1684 4.69e-06 1.91e-04 7.06e-05 1.87e-04 3.74e-05 -7.00e-05 4.80e-04  
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## 1686 1.03e-02 -1.17e-02 -2.27e-03 -2.72e-04 -2.53e-04 6.29e-03 2.83e-02  
## 1687 1.31e-04 -9.98e-04 -1.62e-03 8.45e-04 -2.22e-03 4.75e-03 -1.08e-02  
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## 1693 -9.75e-03 -2.51e-03 -5.61e-03 2.57e-04 -5.94e-04 1.52e-03 -2.41e-02  
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## 1699 6.46e-03 -3.23e-03 -9.89e-03 4.70e-04 -3.42e-03 4.77e-03 5.05e-02  
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## 1703 2.08e-02 7.06e-03 2.92e-02 1.63e-03 2.70e-02 -9.20e-03 8.31e-02  
## 1704 2.63e-02 1.29e-02 1.47e-02 -1.34e-03 1.96e-02 2.03e-02 -8.11e-02  
## 1705 1.28e-02 2.01e-02 -7.80e-03 -3.76e-03 -6.99e-03 -1.22e-03 4.70e-02  
## 1706 2.07e-02 -3.36e-03 -1.25e-02 4.51e-03 2.09e-02 -2.19e-02 8.25e-02  
## 1707 1.25e-05 -4.72e-05 2.22e-04 -9.42e-06 8.46e-07 3.12e-04 -6.85e-04  
## 1708 3.77e-03 1.16e-02 -8.46e-03 4.21e-03 -4.61e-03 6.93e-04 3.71e-02  
## 1709 1.05e-03 -5.73e-03 4.02e-03 -3.35e-03 -1.67e-03 -1.07e-03 1.40e-02  
## 1710 1.55e-03 7.25e-04 -1.12e-03 3.71e-05 8.18e-04 -2.21e-06 -4.22e-03  
## 1711 -3.34e-05 -1.26e-03 -6.28e-04 -2.02e-03 -6.15e-04 1.01e-03 -4.73e-03  
## 1712 -3.05e-02 2.14e-04 -1.16e-02 -1.32e-02 -1.40e-02 6.89e-03 5.41e-02  
## 1713 1.82e-04 -1.03e-04 -2.10e-03 1.21e-04 -3.07e-03 7.62e-03 -1.46e-02  
## 1714 -6.05e-04 1.08e-03 1.82e-03 -5.81e-03 -3.06e-03 2.47e-03 9.77e-03  
## 1715 -1.57e-02 -6.83e-03 -7.84e-03 4.98e-03 3.23e-02 -6.11e-02 1.08e-01  
## 1716 2.83e-02 1.40e-02 -6.38e-03 -4.03e-02 1.55e-02 -2.11e-02 1.05e-01  
## 1717 -1.41e-02 -1.99e-03 1.32e-02 1.37e-02 -2.39e-02 6.09e-03 -6.24e-02  
## 1718 -6.88e-03 6.16e-04 -5.62e-03 -2.08e-03 -3.21e-03 -4.29e-03 3.95e-02  
## 1719 2.34e-04 6.20e-03 8.48e-04 1.83e-03 -1.33e-03 3.58e-03 1.06e-02  
## 1720 -2.24e-02 4.08e-03 4.40e-02 4.29e-03 3.02e-02 -3.50e-02 1.06e-01  
## 1721 -2.23e-02 2.58e-03 -3.34e-03 8.07e-03 5.41e-03 -1.70e-02 8.70e-02  
## 1722 2.82e-03 -7.63e-03 1.25e-02 3.79e-03 -4.47e-03 1.73e-03 3.95e-02  
## 1723 8.47e-03 -1.13e-02 -6.05e-03 4.33e-03 -1.10e-02 -6.40e-03 4.39e-02  
## 1724 -1.92e-04 2.89e-04 2.75e-04 -3.29e-04 -3.42e-05 -5.65e-05 1.11e-03  
## 1725 3.44e-03 -6.16e-04 3.22e-03 -2.39e-03 1.90e-03 1.34e-03 1.04e-02  
## 1726 -1.23e-02 -5.38e-03 1.18e-02 5.86e-04 2.00e-02 -2.95e-03 -6.68e-02  
## 1727 -1.06e-02 -1.02e-02 6.41e-03 -6.42e-04 -1.32e-02 -5.20e-04 -4.11e-02  
## 1728 -4.23e-03 1.36e-03 1.71e-02 7.31e-03 1.16e-03 9.48e-03 4.37e-02  
## 1729 -2.55e-03 -4.60e-03 3.98e-03 3.09e-03 -1.08e-02 8.96e-03 2.09e-02  
## 1730 2.00e-02 -4.60e-06 1.02e-02 4.16e-04 1.33e-02 -8.93e-03 -6.95e-02  
## 1731 -3.16e-04 -1.24e-03 -3.49e-03 2.41e-03 -2.32e-04 -4.00e-03 -9.92e-03  
## 1732 1.05e-02 2.03e-02 -1.82e-02 -1.46e-02 4.68e-02 -3.98e-02 -9.18e-02  
## 1733 3.75e-03 2.34e-03 -1.26e-02 1.31e-02 -9.57e-03 1.16e-02 5.01e-02  
## 1734 6.12e-03 -1.18e-03 -2.10e-03 -3.20e-03 1.34e-03 3.66e-03 1.59e-02  
## 1735 -1.27e-02 -9.35e-03 9.11e-03 -9.83e-05 -2.02e-02 3.71e-04 -3.88e-02  
## 1736 -1.56e-03 -7.42e-03 -4.22e-03 -5.16e-03 -3.60e-03 -1.93e-03 1.35e-02  
## 1737 -2.85e-02 -5.84e-03 -9.45e-03 -2.26e-02 -1.96e-02 -7.96e-03 6.55e-02  
## 1738 -1.76e-02 -6.37e-03 4.43e-03 2.25e-02 -1.60e-02 1.34e-02 -5.47e-02  
## 1739 9.14e-05 -4.02e-04 -9.45e-04 1.16e-04 -4.87e-04 2.66e-03 -5.66e-03  
## 1740 -4.74e-03 3.85e-03 -5.74e-03 -1.26e-02 4.74e-03 -4.09e-03 4.26e-02  
## 1741 2.99e-05 -6.33e-04 1.54e-03 2.57e-04 -2.01e-04 1.16e-03 -3.52e-03  
## 1742 1.14e-04 6.70e-04 -4.45e-04 -6.67e-04 -1.34e-04 1.08e-03 2.92e-03  
## 1743 1.74e-02 -3.04e-03 5.15e-03 1.96e-02 -1.10e-02 7.52e-03 -4.99e-02  
## 1744 -5.38e-06 -1.21e-03 -9.53e-04 5.38e-04 -6.76e-04 1.87e-03 -5.84e-03  
## 1745 -5.05e-03 -1.96e-02 -1.59e-03 8.97e-03 -9.88e-03 4.26e-03 5.26e-02  
## 1746 -3.23e-03 1.15e-02 -5.12e-03 -7.28e-03 9.45e-03 2.62e-03 3.14e-02  
## 1747 -2.25e-02 4.52e-03 5.77e-03 -4.09e-03 -1.51e-02 1.50e-02 -5.88e-02  
## 1748 1.67e-03 3.22e-03 3.67e-03 -2.65e-03 2.39e-04 1.71e-03 1.63e-02  
## 1749 1.30e-03 8.59e-04 -5.23e-04 -5.36e-04 3.28e-04 7.29e-04 3.38e-03  
## 1750 -2.02e-03 -5.86e-04 -1.20e-03 -2.73e-04 -1.78e-03 2.32e-04 6.80e-03  
## 1751 2.09e-03 -4.41e-03 -8.53e-03 1.41e-03 -6.10e-03 -1.08e-03 3.55e-02  
## 1752 -5.25e-03 -1.38e-03 7.86e-03 -7.11e-03 -5.32e-03 -4.61e-04 2.72e-02  
## 1753 4.78e-03 5.25e-03 -2.52e-03 -3.26e-03 5.41e-03 1.90e-03 1.42e-02  
## 1754 1.54e-04 -6.29e-04 -2.09e-03 3.53e-03 -2.33e-03 5.94e-03 -1.36e-02  
## 1755 -1.94e-03 -6.63e-03 3.18e-03 3.79e-03 -5.53e-03 1.77e-03 1.43e-02  
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## 1757 -6.58e-05 6.45e-04 -1.12e-03 -1.97e-04 -2.61e-04 -9.10e-04 3.00e-03  
## 1758 2.24e-02 -1.09e-02 -4.73e-03 -2.07e-02 5.41e-03 -3.77e-04 6.07e-02  
## 1759 3.83e-03 5.30e-03 -1.29e-02 -8.37e-04 -1.03e-02 1.42e-02 4.36e-02  
## 1760 3.63e-03 -1.42e-03 -2.46e-03 -5.43e-03 -2.70e-04 5.53e-04 -1.31e-02  
## 1761 -1.98e-03 -1.24e-05 -3.58e-03 -7.97e-04 -3.14e-03 7.11e-03 2.75e-02  
## 1762 -6.21e-04 1.54e-04 -5.81e-03 4.16e-03 -3.00e-03 7.71e-04 1.24e-02  
## 1763 1.09e-04 6.24e-04 -4.38e-04 5.40e-05 -2.06e-04 1.08e-03 2.55e-03  
## 1764 -3.41e-03 -1.24e-03 2.54e-03 -1.75e-04 -1.89e-04 -5.99e-04 1.03e-02  
## 1765 -7.16e-03 -1.36e-02 -2.36e-03 -6.56e-03 -4.67e-03 8.26e-03 3.28e-02  
## 1766 1.13e-02 1.79e-02 3.86e-03 -1.17e-02 7.17e-03 6.67e-03 -7.54e-02  
## 1767 9.36e-03 -2.44e-03 2.45e-03 -2.18e-03 -7.28e-03 7.13e-03 -3.99e-02  
## 1768 -2.05e-02 -4.45e-03 -2.21e-02 2.36e-04 -2.26e-02 8.21e-03 -5.12e-02  
## 1769 1.90e-04 -3.51e-04 3.56e-03 2.35e-03 -1.03e-03 4.35e-03 -9.83e-03  
## 1770 1.28e-03 -3.78e-04 -1.32e-02 9.62e-03 -6.65e-03 5.68e-03 4.39e-02  
## 1771 4.77e-04 6.22e-03 -3.02e-03 4.40e-03 -1.07e-03 6.64e-03 2.30e-02  
## 1772 -1.43e-04 5.03e-04 -1.40e-03 -9.92e-04 -4.22e-04 -2.08e-03 5.35e-03  
## 1773 3.21e-03 -9.44e-03 -7.62e-03 -5.03e-03 -8.03e-03 4.03e-04 3.81e-02  
## 1774 1.71e-04 1.95e-04 -1.89e-03 9.68e-05 -1.47e-03 5.67e-03 -1.17e-02  
## 1775 2.53e-02 5.27e-03 -1.10e-02 2.64e-03 2.95e-02 -3.47e-02 9.30e-02  
## 1776 6.43e-03 -5.45e-03 -1.86e-02 6.44e-02 2.93e-02 -2.88e-02 -1.21e-01  
## 1777 -2.68e-03 3.87e-03 -2.90e-03 9.51e-03 -7.35e-03 1.17e-02 4.19e-02  
## 1778 -2.78e-02 -1.11e-02 -7.96e-03 5.82e-03 -1.75e-02 -3.71e-03 6.59e-02  
## 1779 -1.36e-02 -7.67e-03 9.77e-03 1.76e-05 -2.45e-02 6.08e-04 -5.10e-02  
## 1780 1.00e-02 2.30e-02 -1.88e-02 -1.63e-02 4.28e-02 -3.43e-02 -8.89e-02  
## 1781 2.17e-03 -1.60e-03 3.17e-03 -6.00e-05 4.47e-03 -2.03e-03 -1.12e-02  
## 1782 -3.08e-02 3.10e-02 1.47e-02 8.95e-03 -2.17e-02 7.97e-03 -1.07e-01  
## 1783 -5.17e-03 8.72e-03 -5.60e-03 -1.67e-02 -3.93e-03 5.50e-03 5.84e-02  
## 1784 2.73e-05 -4.31e-04 8.53e-04 6.72e-04 -1.31e-06 6.91e-04 -2.29e-03  
## 1785 3.51e-03 -1.11e-02 9.12e-03 4.91e-03 5.26e-03 -6.97e-03 3.47e-02  
## 1786 2.42e-02 1.32e-03 -2.64e-02 2.90e-02 -2.12e-02 2.58e-03 -6.62e-02  
## 1787 2.03e-03 7.53e-04 -3.71e-03 5.30e-03 -4.05e-04 -1.78e-03 1.44e-02  
## 1788 4.02e-03 -9.33e-03 -4.52e-03 -8.14e-03 -9.10e-03 -9.44e-04 2.89e-02  
## 1789 2.51e-04 2.84e-04 -2.03e-03 3.05e-03 -1.42e-03 6.04e-03 -1.27e-02  
## 1790 3.03e-03 -8.44e-04 -5.05e-03 -9.12e-03 3.38e-03 -6.39e-04 -1.83e-02  
## 1791 1.80e-02 6.40e-03 -2.43e-02 -2.04e-02 -1.70e-02 1.16e-02 -6.81e-02  
## 1792 -1.98e-02 -1.46e-02 -7.28e-03 -7.32e-03 -1.99e-02 -6.83e-03 6.03e-02  
## 1793 -8.27e-07 6.45e-04 1.91e-04 -3.10e-04 -8.62e-05 7.87e-05 1.25e-03  
## 1794 -7.12e-04 -6.68e-04 2.29e-03 -5.00e-03 -2.69e-03 -5.38e-04 1.05e-02  
## 1795 1.27e-02 1.52e-03 4.94e-03 -3.16e-03 -8.80e-03 1.84e-02 -4.98e-02  
## 1796 2.51e-03 4.68e-03 -1.20e-02 -2.59e-02 -1.35e-02 1.58e-02 4.84e-02  
## 1797 1.70e-02 -2.76e-04 -1.07e-02 2.06e-02 2.45e-02 1.46e-03 5.31e-02  
## 1798 5.87e-03 1.78e-02 3.61e-03 5.89e-03 4.83e-03 1.67e-03 3.53e-02  
## 1799 -5.20e-03 6.87e-03 -5.01e-03 6.19e-03 1.84e-03 -4.07e-03 2.12e-02  
## 1800 -1.11e-03 -6.35e-03 2.11e-03 3.35e-03 -1.96e-03 -1.03e-03 1.07e-02  
## 1801 -4.33e-03 -3.47e-03 -4.33e-03 -4.71e-04 -4.17e-04 9.03e-04 -2.13e-02  
## 1802 -1.53e-05 9.85e-04 3.98e-04 -4.89e-04 -2.25e-04 -1.28e-04 2.62e-03  
## 1803 -1.76e-02 -4.41e-03 -2.13e-02 -8.95e-04 -2.89e-02 8.94e-03 -5.78e-02  
## 1804 -1.39e-02 8.44e-04 7.92e-03 -6.74e-03 -1.64e-02 9.34e-03 -5.48e-02  
## 1805 1.96e-02 3.76e-03 4.08e-03 -7.56e-03 -4.95e-03 6.24e-04 -5.49e-02  
## 1806 -4.98e-04 2.71e-04 2.45e-04 -3.02e-05 -1.37e-04 -2.77e-04 -1.32e-03  
## 1807 2.23e-02 -9.57e-04 -9.59e-03 2.73e-02 1.25e-02 -5.92e-03 8.15e-02  
## 1808 -7.26e-03 2.69e-02 -9.22e-03 -2.91e-02 2.32e-02 -1.56e-02 8.28e-02  
## 1809 -2.10e-02 -8.56e-03 -1.17e-02 6.29e-04 -1.41e-02 -1.78e-02 6.59e-02  
## 1810 1.05e-04 3.74e-03 5.53e-04 1.33e-03 -6.96e-04 1.88e-03 6.56e-03  
## 1811 1.95e-05 -1.45e-04 -2.07e-03 9.42e-06 -2.91e-03 6.85e-03 -1.37e-02  
## 1812 -2.54e-03 -4.61e-03 4.02e-03 3.11e-03 -1.08e-02 8.98e-03 2.10e-02  
## 1813 -1.10e-03 9.57e-03 1.01e-02 -5.38e-03 2.62e-04 9.30e-03 2.82e-02  
## 1814 9.28e-03 -1.34e-02 1.29e-02 -9.02e-03 8.29e-03 6.63e-03 3.69e-02  
## 1815 -3.11e-04 -1.21e-04 -1.80e-04 7.57e-06 -1.63e-04 1.10e-04 -7.95e-04  
## 1816 4.09e-03 8.43e-04 1.33e-02 1.11e-02 -3.45e-03 1.06e-02 4.57e-02  
## 1817 2.15e-02 6.90e-03 -2.87e-02 -7.72e-03 -1.17e-02 9.21e-04 -6.76e-02  
## 1818 -2.76e-02 9.02e-03 5.72e-03 8.40e-03 -1.27e-02 -3.36e-03 -6.96e-02  
## 1819 -1.55e-02 -6.62e-04 1.06e-02 1.28e-02 -2.09e-02 3.64e-03 -6.10e-02  
## 1820 2.38e-04 6.59e-04 -2.53e-03 4.39e-03 -4.29e-03 9.28e-03 -1.80e-02  
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## 1822 -1.16e-02 -1.45e-02 -2.94e-03 8.73e-03 -4.04e-04 9.72e-03 4.49e-02  
## 1823 -1.18e-02 -1.65e-02 -6.32e-03 -1.24e-02 -5.23e-03 -2.12e-03 4.94e-02  
## 1824 -7.67e-04 -1.40e-03 2.07e-03 1.03e-03 -1.54e-03 -2.44e-03 9.33e-03  
## 1825 1.88e-02 1.00e-02 -1.18e-02 3.37e-03 2.45e-02 -5.26e-03 6.20e-02  
## 1826 -2.74e-06 -9.76e-05 -2.63e-05 -7.24e-05 -1.19e-05 -2.40e-06 -2.39e-04  
## 1827 5.08e-04 -8.21e-03 -8.28e-03 1.31e-02 -1.15e-02 -8.24e-03 4.93e-02  
## 1828 2.54e-02 3.35e-02 8.47e-03 -1.63e-02 1.49e-02 1.03e-02 -1.14e-01  
## 1829 8.25e-04 -4.70e-04 8.97e-03 -1.42e-03 -4.61e-03 5.34e-03 3.31e-02  
## 1830 -4.69e-03 -8.94e-03 -2.51e-02 2.94e-03 1.52e-02 -2.16e-02 -8.22e-02  
## 1831 3.94e-03 5.41e-03 -1.31e-02 -4.82e-04 -1.14e-02 1.47e-02 5.20e-02  
## 1832 1.12e-02 1.28e-02 5.55e-03 -6.03e-03 -1.76e-02 1.50e-02 -6.37e-02  
## 1833 1.19e-02 2.18e-02 -2.02e-02 6.67e-02 5.42e-02 -4.55e-02 -1.14e-01  
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## 1835 -4.87e-05 1.92e-02 -1.05e-02 -7.61e-03 -9.96e-03 9.32e-03 3.29e-02  
## 1836 -3.98e-03 -2.22e-02 -4.49e-02 3.45e-02 -1.64e-02 -4.22e-02 -1.40e-01  
## 1837 -4.10e-04 -1.61e-03 1.16e-03 1.02e-03 -4.32e-04 -2.33e-03 5.84e-03  
## 1838 -1.00e-02 -1.35e-02 -5.89e-03 4.38e-03 -9.28e-03 -3.91e-03 3.48e-02  
## 1839 1.50e-04 4.60e-04 -2.30e-03 1.67e-04 -3.95e-03 8.36e-03 -1.60e-02  
## 1840 -1.74e-03 1.07e-03 -1.68e-03 2.70e-04 1.02e-03 7.03e-04 -7.19e-03  
## 1841 3.64e-03 -1.78e-03 -3.48e-03 -3.54e-03 2.91e-03 -5.26e-03 2.10e-02  
## 1842 -7.37e-04 1.06e-03 1.75e-03 2.77e-03 -2.50e-03 1.42e-03 9.06e-03  
## 1843 6.19e-05 -1.32e-03 -1.36e-03 8.70e-04 -1.42e-03 3.09e-03 -8.64e-03  
## 1844 -3.40e-04 -6.20e-04 9.81e-04 1.93e-03 -4.76e-04 -7.62e-04 4.78e-03  
## 1845 -5.91e-03 -2.31e-03 2.01e-02 -6.91e-04 1.34e-02 -1.66e-02 -6.65e-02  
## 1846 2.53e-03 -9.79e-03 -5.29e-03 -1.30e-03 -1.03e-02 -2.86e-03 3.34e-02  
## 1847 3.02e-02 -5.88e-03 1.38e-02 1.17e-03 1.34e-02 -2.15e-02 -8.32e-02  
## 1848 -6.42e-03 -5.62e-03 -2.55e-02 2.44e-02 9.11e-03 -2.33e-02 -7.51e-02  
## 1849 -6.38e-03 -5.31e-03 -2.49e-02 2.74e-03 9.08e-03 -2.31e-02 -7.16e-02  
## 1850 3.09e-02 -5.44e-03 1.25e-02 1.31e-03 2.17e-02 -4.44e-03 -8.91e-02  
## 1851 1.77e-06 4.10e-04 -6.27e-04 5.45e-04 5.24e-05 -2.93e-04 1.39e-03  
## 1852 -3.60e-03 2.46e-02 2.14e-02 1.16e-02 2.42e-02 3.74e-03 -1.20e-01  
## 1853 -5.81e-03 -3.00e-03 -4.27e-03 -2.35e-04 -3.34e-03 1.96e-03 -2.38e-02  
## 1854 -1.68e-02 4.59e-03 1.50e-02 -6.19e-03 -2.39e-02 2.87e-03 -7.44e-02  
## 1855 2.92e-02 2.52e-02 9.12e-03 -1.52e-02 -1.59e-02 -6.12e-03 -9.86e-02  
## 1856 1.38e-04 2.81e-04 -1.85e-03 -6.78e-03 -4.26e-03 8.31e-03 -1.60e-02  
## 1857 -6.98e-03 -5.93e-03 -2.42e-02 -1.79e-02 5.67e-03 -2.05e-02 -7.22e-02  
## 1858 1.18e-02 -1.67e-02 -4.69e-03 6.59e-03 -5.09e-03 -9.68e-03 4.97e-02  
## 1859 -1.28e-03 5.80e-03 3.98e-03 4.82e-03 -9.13e-03 6.43e-03 2.77e-02  
## 1860 -1.70e-02 1.02e-02 1.26e-02 1.42e-02 -3.67e-03 1.02e-04 5.34e-02  
## 1861 -8.55e-03 1.36e-02 -3.21e-03 9.80e-03 -1.38e-03 6.56e-03 5.76e-02  
## 1862 -1.26e-03 -3.01e-03 -2.29e-03 -4.55e-03 -6.46e-04 6.50e-03 1.97e-02  
## 1863 -2.00e-02 -3.91e-03 -2.43e-02 -8.16e-04 -2.30e-02 1.64e-02 -6.17e-02  
## 1864 2.59e-03 4.75e-03 -1.20e-02 -2.60e-02 -1.34e-02 1.58e-02 4.85e-02  
## 1865 2.63e-04 2.65e-04 -1.84e-03 7.33e-05 -1.52e-03 6.00e-03 -1.17e-02  
## 1866 3.93e-03 6.35e-03 -1.37e-02 1.18e-02 -9.26e-03 1.36e-02 4.59e-02  
## 1867 -1.48e-02 -1.53e-02 -5.32e-03 7.79e-03 3.60e-03 -1.44e-03 4.50e-02  
## 1868 1.23e-05 -1.61e-03 -7.77e-04 2.40e-03 -1.58e-04 5.02e-04 -5.27e-03  
## 1869 -5.33e-03 -2.59e-03 3.89e-03 -3.62e-04 9.59e-04 1.21e-04 -1.60e-02  
## 1870 -2.43e-03 3.27e-03 2.77e-03 -5.76e-04 -8.23e-04 -1.40e-03 1.03e-02  
## 1871 2.45e-05 1.86e-04 -1.44e-04 1.21e-05 -7.42e-05 3.27e-04 8.00e-04  
## 1872 -5.55e-03 1.06e-02 -4.78e-03 -3.92e-03 4.25e-03 1.23e-02 5.09e-02  
## 1873 4.14e-03 -1.44e-03 -6.08e-03 -1.78e-05 6.42e-03 -1.73e-03 -2.01e-02  
## 1874 -3.14e-03 -4.89e-03 -1.05e-02 -1.01e-02 -1.61e-02 1.10e-02 2.80e-02  
## 1875 -1.27e-02 -9.37e-03 9.06e-03 -1.13e-04 -2.03e-02 4.42e-04 -3.88e-02  
## 1876 1.46e-02 -5.45e-03 4.28e-03 -1.23e-03 -1.13e-02 9.17e-03 -3.50e-02  
## 1877 -2.11e-02 -8.23e-03 -8.48e-03 -1.68e-02 -6.37e-03 -2.86e-03 5.25e-02  
## 1878 -1.84e-02 -9.47e-03 -8.61e-03 1.12e-02 -5.45e-03 -3.89e-04 3.92e-02  
## 1879 -3.14e-02 2.21e-02 6.15e-03 2.70e-02 1.66e-03 9.52e-03 -1.04e-01  
## 1880 1.06e-03 2.89e-03 3.45e-03 -5.67e-03 3.24e-04 -3.61e-04 1.45e-02  
## 1881 -1.35e-02 -8.73e-03 -5.79e-03 -3.69e-03 -4.62e-03 -4.91e-03 2.82e-02  
## 1882 -5.17e-03 -2.45e-03 6.76e-03 4.41e-03 -2.03e-03 1.62e-03 -2.18e-02  
## 1883 -1.53e-02 2.08e-04 -2.55e-02 -3.85e-03 -2.15e-02 -2.69e-05 -5.35e-02  
## 1884 3.70e-03 5.85e-03 6.38e-03 -9.50e-03 -5.15e-04 4.26e-04 2.62e-02  
## 1885 6.92e-03 1.29e-03 -1.15e-02 1.34e-02 -3.03e-03 8.14e-03 5.68e-02  
## 1886 9.49e-03 1.97e-02 3.79e-02 8.99e-03 5.14e-02 -4.01e-02 -1.02e-01  
## 1887 -5.17e-03 -8.94e-03 -2.46e-02 -1.68e-02 1.33e-02 -2.04e-02 -8.29e-02  
## 1888 -2.71e-02 6.83e-03 -8.72e-03 -1.95e-02 -2.44e-02 2.81e-03 9.86e-02  
## 1889 -2.78e-02 -7.38e-03 -1.03e-02 2.42e-03 -1.24e-02 -9.04e-03 5.74e-02  
## 1890 -1.49e-02 -1.77e-02 -6.74e-03 7.78e-03 -6.55e-03 -3.90e-03 6.18e-02  
## 1891 2.58e-03 -1.81e-03 2.43e-03 2.71e-03 3.07e-03 -1.54e-03 -1.28e-02  
## 1892 1.00e-03 -5.23e-03 2.97e-03 1.46e-03 -1.77e-03 -2.80e-03 1.22e-02  
## 1893 -3.64e-03 1.14e-02 1.66e-02 3.60e-02 2.66e-02 -4.40e-03 -1.10e-01  
## 1894 1.90e-02 -4.92e-03 -2.11e-02 -1.11e-03 -1.61e-02 6.06e-03 -5.27e-02  
## 1895 -2.32e-02 -3.53e-03 -8.81e-03 -1.16e-02 1.71e-02 -1.74e-02 7.37e-02  
## 1896 1.92e-04 6.34e-03 7.71e-04 1.63e-03 -1.49e-03 3.83e-03 1.08e-02  
## 1897 -6.39e-04 2.36e-03 2.23e-03 -7.39e-04 -3.95e-03 4.02e-03 1.12e-02  
## 1898 2.86e-03 -1.20e-03 3.91e-03 -3.23e-04 5.46e-03 -1.65e-03 -1.36e-02  
## 1899 -2.10e-02 9.29e-03 -8.21e-03 2.28e-03 3.22e-02 -2.87e-02 8.41e-02  
## 1900 2.97e-02 4.05e-02 8.57e-03 -1.90e-02 -5.10e-03 -4.33e-03 -1.11e-01  
## 1901 -1.28e-03 -1.33e-03 -6.73e-03 6.78e-03 -4.43e-03 -3.78e-03 1.82e-02  
## 1902 3.71e-03 9.80e-04 5.21e-03 -2.00e-03 4.42e-03 -2.37e-03 2.08e-02  
## 1903 -2.08e-02 -9.67e-03 -9.26e-03 1.55e-03 -1.19e-02 -1.77e-02 5.44e-02  
## 1904 1.76e-04 -5.78e-04 -1.95e-03 4.41e-04 -2.70e-03 6.41e-03 -1.31e-02  
## 1905 -5.16e-04 2.47e-03 1.84e-03 2.59e-03 -3.51e-03 4.69e-03 1.31e-02  
## 1906 6.95e-03 2.65e-03 -1.21e-02 -5.55e-04 -6.08e-03 1.53e-02 6.19e-02  
## 1907 -7.40e-03 -1.84e-03 -3.78e-03 -1.24e-04 -2.01e-03 -4.35e-03 -1.28e-02  
## 1908 -3.46e-04 -9.14e-04 -1.98e-03 -2.05e-03 -7.90e-04 -8.80e-04 4.90e-03  
## 1909 1.73e-02 9.39e-04 -3.45e-03 7.21e-03 1.66e-03 7.58e-03 3.36e-02  
## 1910 1.16e-02 -5.67e-03 1.87e-02 3.70e-04 -9.46e-03 -4.81e-03 6.18e-02  
## 1911 3.28e-03 -7.10e-03 -7.43e-03 -5.59e-03 -4.13e-03 2.56e-03 3.07e-02  
## 1912 -2.62e-02 2.08e-02 1.01e-02 2.73e-02 -6.29e-03 -5.16e-03 -8.95e-02  
## 1913 2.54e-03 -1.43e-03 -4.21e-03 -3.36e-04 5.01e-03 -1.09e-03 -1.41e-02  
## 1914 1.26e-03 -5.87e-03 4.56e-03 1.09e-03 -3.68e-04 -8.53e-04 1.71e-02  
## 1915 -1.05e-02 -1.15e-03 -2.29e-02 -1.86e-02 6.62e-03 -9.16e-03 -8.31e-02  
## 1916 -2.45e-03 -7.88e-03 -7.27e-03 -1.06e-02 -9.80e-03 2.66e-03 2.29e-02  
## 1917 6.75e-04 -6.40e-04 8.87e-04 -7.24e-05 1.28e-03 -4.58e-04 -4.14e-03  
## 1918 9.82e-03 -1.00e-02 1.58e-02 3.30e-03 -6.90e-03 -1.71e-04 5.04e-02  
## 1919 1.90e-05 -1.56e-03 -6.13e-04 2.15e-03 -1.27e-05 1.64e-04 -4.46e-03  
## 1920 2.89e-02 -5.65e-03 3.44e-02 -2.90e-02 1.31e-02 1.00e-03 9.00e-02  
## 1921 2.49e-03 1.43e-03 -1.31e-03 -1.34e-03 -5.89e-04 3.76e-04 6.50e-03  
## 1922 8.39e-03 2.92e-02 6.48e-03 -1.36e-02 2.28e-03 -9.35e-03 -7.63e-02  
## 1923 6.00e-03 4.02e-02 6.18e-03 2.69e-02 3.38e-03 -1.06e-02 -9.35e-02  
## 1924 1.24e-02 5.59e-02 4.07e-02 -3.32e-02 3.56e-02 3.38e-03 -1.11e-01  
## 1925 -3.13e-02 7.92e-03 -1.26e-02 1.63e-03 3.33e-02 -1.37e-02 8.61e-02  
## 1926 -3.16e-03 -4.90e-03 -1.10e-02 -2.89e-03 -1.60e-02 1.09e-02 2.70e-02  
## 1927 -9.94e-04 -7.91e-04 -2.89e-03 -9.66e-03 -8.31e-04 3.95e-03 3.23e-02  
## 1928 -2.47e-03 -4.67e-03 4.28e-03 3.28e-03 -1.07e-02 9.11e-03 2.15e-02  
## 1929 -1.02e-03 2.41e-03 -7.47e-03 4.46e-03 -5.47e-03 2.61e-03 1.53e-02  
## 1930 -1.12e-02 -5.42e-03 1.26e-02 -1.91e-03 -2.43e-02 1.77e-02 -6.75e-02  
## 1931 -4.09e-04 -1.12e-03 -1.99e-03 -2.00e-03 -7.99e-04 -1.49e-03 5.52e-03  
## 1932 -3.56e-04 2.37e-04 7.69e-04 8.08e-04 1.85e-04 2.41e-04 -3.00e-03  
## 1933 1.20e-04 3.71e-03 5.95e-04 1.44e-03 -6.80e-04 1.84e-03 6.61e-03  
## 1934 -2.36e-03 -4.85e-03 4.67e-03 3.71e-03 -1.09e-02 9.56e-03 2.25e-02  
## 1935 -2.89e-03 -5.30e-03 -1.13e-02 4.08e-03 -1.39e-02 1.10e-02 3.04e-02  
## 1936 -2.44e-03 3.03e-03 -3.23e-03 -2.81e-03 9.77e-04 1.43e-03 -1.31e-02  
## 1937 -2.90e-02 6.77e-04 1.66e-02 1.17e-02 -6.67e-03 5.50e-03 5.36e-02  
## 1938 5.72e-05 -1.34e-03 -6.64e-04 7.00e-04 -2.36e-04 8.93e-04 -4.08e-03  
## 1939 2.76e-03 6.72e-03 -1.32e-02 -1.53e-02 -1.76e-02 1.25e-02 5.68e-02  
## 1940 -1.42e-02 7.17e-04 -2.42e-02 -1.79e-02 -2.91e-03 -3.28e-02 -1.03e-01  
## 1941 7.80e-05 4.56e-04 -2.55e-03 4.29e-03 -3.83e-03 8.13e-03 -1.72e-02  
## 1942 2.24e-02 -1.74e-02 -4.46e-03 -2.33e-03 5.93e-04 1.04e-02 4.93e-02  
## 1943 4.71e-03 -1.25e-03 -1.61e-03 -2.46e-03 1.03e-03 2.95e-03 1.27e-02  
## 1944 1.90e-02 -4.49e-03 -2.10e-02 -6.48e-04 -2.36e-02 8.33e-03 -4.98e-02  
## 1945 -3.06e-05 6.05e-04 1.04e-03 -7.54e-04 5.23e-04 1.10e-03 3.44e-03  
## 1946 -4.36e-02 3.57e-02 4.50e-03 2.53e-02 3.75e-03 -2.70e-02 -1.11e-01  
## 1947 4.64e-03 -4.71e-03 1.08e-02 -7.94e-03 -4.31e-03 3.13e-03 4.06e-02  
## 1948 -1.92e-02 -1.62e-02 -8.32e-03 -2.43e-02 1.31e-02 -1.54e-02 8.12e-02  
## 1949 -1.21e-02 -7.67e-03 1.01e-02 -2.97e-04 -2.44e-02 9.12e-03 -6.11e-02  
## 1950 -1.02e-02 -8.43e-03 6.59e-03 -8.82e-04 -1.45e-02 4.22e-03 -3.59e-02  
## 1951 -8.91e-03 -1.86e-02 -2.83e-03 -1.75e-02 -7.13e-04 1.13e-02 5.84e-02  
## 1952 4.62e-03 2.77e-03 -1.30e-03 -1.73e-03 4.38e-04 3.01e-03 9.23e-03  
## 1953 9.16e-04 -8.08e-03 5.74e-03 3.22e-03 -2.58e-03 -1.15e-03 2.20e-02  
## 1954 1.66e-02 -4.84e-03 -8.16e-03 -2.40e-02 1.04e-02 -9.37e-03 6.57e-02  
## 1955 5.40e-03 -4.48e-03 1.05e-02 -4.50e-04 -1.59e-04 6.01e-03 4.65e-02  
## 1956 1.18e-02 -1.43e-02 1.48e-02 -3.84e-03 1.08e-02 -7.13e-03 4.66e-02  
## 1957 1.40e-03 2.40e-03 -4.72e-03 -6.06e-03 -2.77e-03 -1.59e-03 2.00e-02  
## 1958 -7.68e-03 1.52e-02 -1.02e-02 -8.61e-03 1.68e-02 -1.39e-02 6.39e-02  
## 1959 1.63e-02 4.19e-03 2.52e-02 -3.13e-02 2.87e-02 2.11e-03 6.12e-02  
## 1960 6.29e-05 -5.61e-05 -1.75e-04 3.01e-04 3.23e-05 -1.29e-04 7.62e-04  
## 1961 -3.57e-03 1.82e-02 2.68e-02 4.35e-02 1.95e-02 -8.76e-03 -1.03e-01  
## 1962 1.00e-03 -4.10e-03 1.60e-02 -7.51e-03 -1.12e-02 -2.19e-04 5.03e-02  
## 1963 6.06e-02 4.23e-02 3.48e-02 -1.42e-03 4.95e-02 1.08e-02 -1.54e-01  
## 1964 -2.23e-03 3.61e-03 -4.71e-03 1.76e-02 5.69e-03 3.46e-03 4.30e-02  
## 1965 -1.75e-03 3.02e-03 3.10e-03 2.39e-03 1.69e-03 -1.80e-03 1.45e-02  
## 1966 -1.97e-02 -4.33e-03 5.59e-03 -2.25e-03 -1.64e-02 5.77e-03 -4.80e-02  
## 1967 -9.92e-04 1.94e-03 -6.44e-03 -4.20e-03 -5.85e-03 3.21e-03 1.38e-02  
## 1968 -2.38e-02 -9.01e-03 2.90e-02 6.80e-03 2.39e-02 -6.22e-03 7.25e-02  
## 1969 2.31e-03 -8.69e-04 4.28e-03 -3.88e-03 2.13e-03 -1.21e-03 -1.60e-02  
## 1970 -1.27e-02 -4.91e-03 7.55e-03 -3.28e-03 -1.50e-02 2.46e-03 -4.64e-02  
## 1971 4.34e-05 3.44e-03 6.83e-04 1.55e-03 -4.25e-04 8.74e-04 5.78e-03  
## 1972 6.95e-03 -3.91e-03 1.24e-03 -8.23e-04 -3.24e-03 9.21e-03 -2.60e-02  
## 1973 2.80e-02 -3.14e-03 -3.48e-03 8.70e-03 4.34e-03 -5.46e-03 7.48e-02  
## 1974 -2.28e-03 -1.45e-03 -1.46e-03 -2.43e-03 -3.91e-04 5.99e-04 -6.72e-03  
## 1975 3.83e-06 -1.70e-04 2.55e-04 2.27e-04 2.38e-05 8.41e-05 -5.91e-04  
## 1976 -3.01e-02 1.41e-03 -9.67e-03 6.00e-03 1.78e-02 -3.33e-02 9.22e-02  
## 1977 8.00e-03 5.11e-02 6.79e-03 2.65e-03 1.60e-02 -1.71e-02 -1.01e-01  
## 1978 -1.83e-03 -6.24e-03 2.85e-03 3.19e-03 -5.31e-03 3.19e-03 1.61e-02  
## 1979 -1.01e-02 1.68e-03 9.65e-03 1.09e-02 -3.41e-03 -6.25e-03 3.77e-02  
## 1980 2.18e-02 9.62e-04 5.26e-03 2.20e-02 -1.20e-02 1.25e-02 -6.32e-02  
## 1981 -1.19e-02 5.87e-03 -2.67e-02 -2.28e-02 -1.89e-03 -1.68e-02 -1.09e-01  
## 1982 -1.55e-03 2.75e-03 -1.45e-03 -1.99e-03 1.45e-03 2.94e-03 1.06e-02  
## 1983 -3.20e-02 1.36e-02 8.95e-03 2.85e-02 -1.35e-02 1.08e-02 -8.62e-02  
## 1984 9.40e-03 -3.80e-03 1.02e-02 -2.06e-02 1.58e-02 -1.51e-02 -9.64e-02  
## 1985 7.94e-03 8.66e-03 -5.47e-03 -2.00e-03 3.69e-03 -2.82e-04 2.48e-02  
## 1986 -1.64e-02 -3.07e-03 2.74e-03 -3.40e-03 -5.60e-03 4.28e-03 -4.18e-02  
## 1987 -6.32e-03 -7.35e-04 7.50e-03 -1.88e-03 -6.19e-03 -1.06e-03 2.36e-02  
## 1988 2.56e-02 -4.12e-04 -7.57e-03 4.91e-03 1.89e-02 -1.41e-02 6.73e-02  
## 1989 -6.29e-03 -4.89e-03 2.07e-02 1.06e-03 1.34e-02 -2.27e-02 -7.70e-02  
## 1990 -6.06e-04 7.13e-04 1.69e-03 2.73e-03 -2.06e-03 1.07e-03 8.36e-03  
## 1991 -1.06e-02 -1.02e-02 6.31e-03 -6.67e-04 -1.35e-02 -3.70e-04 -4.09e-02  
## 1992 7.55e-03 -1.37e-03 -4.30e-03 -1.09e-02 -1.77e-03 9.29e-04 -2.67e-02  
## 1993 1.28e-03 4.92e-03 -2.65e-03 -4.32e-03 1.83e-03 6.38e-03 1.99e-02  
## 1994 2.06e-02 -4.49e-04 -2.47e-02 1.78e-03 1.04e-02 -1.20e-02 -8.43e-02  
## 1995 -1.55e-02 2.10e-04 8.43e-03 -5.50e-03 -1.67e-02 -5.72e-04 -4.70e-02  
## 1996 2.09e-02 3.27e-03 2.88e-02 -1.46e-02 2.57e-02 -6.77e-03 8.03e-02  
## 1997 -2.30e-03 -5.48e-03 4.27e-03 3.79e-03 -9.74e-03 7.66e-03 2.01e-02  
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## 2000 -2.58e-02 5.27e-03 6.51e-03 -1.98e-02 -1.04e-02 8.82e-03 -5.76e-02  
## 2001 9.70e-03 -8.80e-03 -3.97e-02 -3.77e-02 -1.91e-02 -1.16e-02 -1.00e-01  
## 2002 -3.13e-03 -1.77e-03 -2.50e-02 1.14e-03 1.82e-02 -1.54e-02 -7.80e-02  
## 2003 1.76e-02 -6.13e-03 6.44e-03 -6.50e-04 -1.61e-02 6.84e-03 -4.07e-02  
## 2004 -1.73e-02 3.03e-03 9.65e-03 -1.70e-02 -2.39e-02 1.94e-02 -7.34e-02  
## 2005 -8.22e-03 -2.15e-03 5.69e-03 4.66e-03 5.65e-03 -1.79e-03 -2.11e-02  
## 2006 -1.13e-02 -7.21e-03 6.53e-03 2.26e-02 -1.39e-02 2.46e-03 -4.48e-02  
## 2007 -2.76e-03 -6.72e-03 3.16e-03 1.67e-03 -3.30e-03 -5.20e-04 1.15e-02  
## 2008 -3.88e-02 3.21e-02 1.12e-02 -1.71e-02 -1.12e-04 8.30e-03 -1.01e-01  
## 2009 -2.44e-04 -3.61e-04 6.80e-04 -9.34e-04 -5.13e-04 2.93e-05 3.70e-03  
## 2010 2.99e-03 -7.02e-03 7.26e-03 -1.12e-02 -1.36e-03 -3.69e-03 3.12e-02  
## 2011 3.03e-03 -8.27e-03 1.16e-02 1.26e-02 -2.91e-03 2.89e-03 4.03e-02  
## 2012 1.80e-02 -1.62e-03 -2.15e-02 -2.70e-03 -1.87e-02 9.34e-03 -4.89e-02  
## 2013 -1.22e-06 -5.88e-04 -2.34e-04 7.01e-04 1.92e-05 1.10e-04 -1.63e-03  
## 2014 -5.77e-03 -8.76e-03 1.93e-02 -1.74e-02 1.37e-02 -2.01e-02 -6.61e-02  
## 2015 3.55e-03 6.65e-03 -4.80e-02 -2.40e-02 3.74e-03 -3.81e-02 -1.15e-01  
## 2016 -5.88e-03 -1.47e-04 -3.72e-03 7.32e-03 -3.64e-03 -1.48e-03 2.08e-02  
## 2017 -8.99e-05 -9.69e-04 -1.54e-03 -2.21e-03 -1.15e-03 -1.10e-03 -5.56e-03  
## 2018 -2.78e-02 1.18e-03 -8.27e-03 5.49e-03 2.34e-02 -1.51e-02 7.20e-02  
## 2019 -8.51e-03 -8.22e-03 4.12e-03 -2.79e-03 -9.75e-03 9.72e-03 -4.64e-02  
## 2020 -7.58e-03 2.67e-02 2.83e-02 3.96e-03 3.30e-02 -1.97e-02 7.67e-02  
## 2021 -1.66e-04 -5.33e-04 4.62e-04 6.45e-04 2.38e-04 -1.48e-03 -2.85e-03  
## 2022 -1.25e-03 -2.05e-03 9.80e-03 -5.19e-03 -1.71e-03 8.15e-03 2.58e-02  
## 2023 -4.99e-04 4.36e-04 1.88e-03 3.26e-03 -1.96e-03 7.06e-04 1.03e-02  
## 2024 1.29e-04 5.14e-03 9.16e-04 1.91e-03 -1.03e-03 2.18e-03 8.27e-03  
## 2025 3.10e-02 2.17e-03 1.96e-02 1.54e-03 -2.00e-02 -2.88e-02 -1.41e-01  
## 2026 -3.69e-04 -2.07e-03 1.12e-02 -1.98e-02 -5.82e-03 -2.72e-03 5.13e-02  
## 2027 8.22e-03 4.74e-04 1.36e-02 1.03e-02 2.11e-05 2.02e-02 5.73e-02  
## 2028 1.24e-02 4.15e-03 -2.58e-02 -3.39e-03 -1.69e-02 8.19e-03 -5.95e-02  
## 2029 1.02e-02 1.38e-02 3.68e-02 -1.41e-02 5.18e-02 -3.67e-02 -9.10e-02  
## 2030 9.00e-04 1.62e-04 -2.02e-03 -2.20e-03 -5.64e-04 -5.49e-04 7.26e-03  
## 2031 -1.14e-02 -8.18e-03 -4.59e-03 2.77e-03 -4.19e-03 -2.22e-03 2.54e-02  
## 2032 1.86e-02 1.53e-02 3.57e-02 1.82e-03 2.61e-02 -7.48e-03 9.21e-02  
## 2033 2.07e-02 2.00e-02 -1.22e-02 2.28e-02 2.85e-02 -1.36e-03 8.09e-02  
## 2034 1.11e-02 8.95e-03 5.55e-03 -6.17e-03 -1.44e-02 2.73e-03 -5.82e-02  
## 2035 -1.40e-02 -1.24e-04 8.30e-03 -5.84e-03 -1.57e-02 7.41e-03 -5.50e-02  
## 2036 3.58e-03 -1.58e-03 -5.98e-03 4.63e-03 6.18e-03 -2.22e-03 -1.88e-02  
## 2037 1.38e-04 7.33e-03 1.03e-03 1.90e-03 -1.89e-03 3.91e-03 1.13e-02  
## 2038 2.90e-03 -9.37e-03 1.07e-02 -1.13e-02 -9.25e-03 -3.93e-03 4.07e-02  
## 2039 1.66e-02 3.07e-03 2.75e-02 3.07e-03 2.57e-02 9.95e-04 6.52e-02  
## 2040 -7.90e-04 3.54e-03 2.24e-03 2.79e-03 -4.74e-03 5.23e-03 1.37e-02  
## 2041 7.05e-04 4.18e-03 -1.61e-03 -3.23e-03 -4.23e-04 5.30e-03 1.41e-02  
## 2042 8.10e-03 2.60e-03 1.36e-02 9.06e-03 -1.14e-03 2.35e-02 6.06e-02  
## 2043 -2.35e-02 -5.63e-03 -1.32e-02 9.24e-04 -1.31e-02 -1.93e-02 7.01e-02  
## 2044 8.14e-03 3.31e-03 2.77e-03 2.02e-02 -4.74e-03 8.31e-03 -5.41e-02  
## 2045 9.78e-03 -1.27e-02 -2.87e-03 -6.39e-03 1.89e-04 5.93e-03 3.31e-02  
## 2046 -2.72e-03 -1.30e-03 2.50e-03 1.59e-03 -2.34e-03 2.81e-03 -1.09e-02  
## 2047 6.64e-05 2.97e-05 -1.74e-03 -6.24e-03 -3.69e-03 7.14e-03 -1.44e-02  
## 2048 -4.64e-03 -2.21e-02 -3.74e-03 8.99e-03 -2.76e-03 2.03e-03 5.03e-02  
## 2049 -2.68e-02 2.50e-02 1.12e-02 2.76e-02 -3.24e-03 -6.12e-03 -9.59e-02  
## 2050 -3.73e-03 -7.51e-03 1.62e-02 1.01e-04 2.04e-02 -1.45e-02 -6.65e-02  
## 2051 -5.48e-03 -1.99e-02 -4.75e-03 -3.38e-03 -3.78e-03 -6.33e-04 4.34e-02  
## 2052 1.02e-02 -1.09e-02 1.66e-02 -1.21e-02 9.08e-03 3.65e-03 4.13e-02  
## 2053 3.55e-02 2.87e-02 1.59e-02 -8.92e-03 3.09e-02 2.10e-02 -1.06e-01  
## 2054 5.00e-03 -1.17e-03 -6.64e-03 5.56e-03 7.92e-03 -1.62e-03 -2.29e-02  
## 2055 2.39e-02 -1.46e-02 -6.23e-03 8.07e-03 4.07e-03 -6.29e-03 5.80e-02  
## 2056 3.67e-03 -8.57e-04 -5.70e-03 -5.14e-03 4.65e-03 -1.30e-03 -1.88e-02  
## 2057 -1.05e-02 1.01e-02 -2.43e-02 3.33e-05 9.98e-03 -1.18e-02 -9.85e-02  
## 2058 -2.04e-05 1.76e-04 -4.64e-04 -2.49e-05 -2.84e-05 -5.33e-04 1.36e-03  
## 2059 -1.91e-03 -1.11e-03 -1.49e-03 -2.05e-03 -1.35e-03 3.09e-04 7.30e-03  
## 2060 -1.78e-04 -2.66e-04 4.93e-04 -1.42e-03 -5.36e-04 1.65e-04 2.64e-03  
## 2061 2.65e-02 -1.04e-02 2.80e-02 7.22e-03 1.58e-02 1.95e-03 6.22e-02  
## 2062 -1.73e-05 1.30e-04 -4.51e-04 5.33e-04 5.85e-05 -5.32e-04 1.28e-03  
## 2063 -2.43e-03 1.19e-03 -2.09e-03 -9.34e-03 -9.40e-03 1.32e-02 3.61e-02  
## 2064 1.31e-02 -1.36e-02 1.28e-02 1.24e-02 6.18e-03 -2.90e-03 3.95e-02  
## 2065 1.18e-02 -1.75e-03 5.57e-03 -1.38e-03 -1.53e-02 1.97e-02 -4.96e-02  
## 2066 -2.86e-03 4.32e-02 2.42e-02 7.18e-03 2.92e-02 1.15e-02 -1.22e-01  
## 2067 2.90e-03 1.45e-03 1.86e-03 -2.35e-05 1.41e-03 1.54e-03 5.98e-03  
## 2068 6.65e-05 1.58e-04 -1.51e-04 4.11e-04 9.83e-05 7.59e-05 -9.04e-04  
## 2069 -2.13e-03 -6.40e-03 3.62e-03 3.84e-03 -6.96e-03 3.61e-03 1.62e-02  
## 2070 1.55e-02 3.05e-02 5.24e-03 7.32e-03 -2.29e-03 5.91e-03 -1.07e-01  
## 2071 -5.87e-03 -1.92e-02 -1.95e-03 1.14e-02 -9.51e-03 1.25e-02 6.31e-02  
## 2072 -1.49e-02 7.31e-03 9.11e-03 -6.38e-03 -3.18e-04 5.21e-04 3.44e-02  
## 2073 -1.49e-02 -7.83e-03 -2.19e-02 -8.35e-05 -2.92e-02 1.19e-03 -4.75e-02  
## 2074 2.23e-03 8.83e-03 -8.87e-03 8.36e-03 5.10e-04 -1.37e-03 3.05e-02  
## 2075 -3.54e-03 -1.27e-02 -2.03e-03 5.22e-03 -4.55e-03 1.02e-02 3.01e-02  
## 2076 -7.44e-04 8.62e-04 -6.46e-04 8.24e-05 -1.48e-03 2.93e-04 3.72e-03  
## 2077 1.86e-02 -7.52e-03 -1.04e-02 -8.42e-03 1.97e-02 -8.84e-04 6.01e-02  
## 2078 -2.70e-03 -9.27e-03 4.22e-03 5.10e-03 -7.48e-03 4.91e-04 2.35e-02  
## 2079 9.81e-03 1.40e-02 3.62e-02 -1.49e-02 5.19e-02 -3.72e-02 -9.07e-02  
## 2080 -1.53e-02 -4.93e-03 -2.38e-02 3.32e-02 -3.01e-02 -2.23e-03 -7.11e-02  
## 2081 1.09e-02 5.44e-03 1.67e-03 -7.07e-03 1.62e-03 1.92e-03 -4.76e-02  
## 2082 -2.81e-02 5.61e-03 -2.74e-02 -3.36e-03 -2.89e-02 3.09e-03 -6.98e-02  
## 2083 -7.38e-03 -3.11e-03 2.30e-02 1.57e-03 1.40e-02 -1.55e-02 -1.02e-01  
## 2084 5.43e-03 4.39e-03 8.09e-03 3.92e-03 -2.49e-04 -1.81e-04 3.04e-02  
## 2085 1.43e-03 1.59e-03 1.13e-03 -2.20e-04 1.54e-03 -1.08e-03 5.82e-03  
## 2086 4.52e-03 -1.30e-02 -5.79e-03 -1.77e-03 2.90e-03 -3.45e-03 3.44e-02  
## 2087 3.04e-05 -1.49e-03 -1.04e-03 9.32e-04 -1.02e-03 1.86e-03 -7.56e-03  
## 2088 8.08e-03 -2.07e-03 -5.94e-03 -5.63e-04 4.00e-03 -6.60e-04 -2.41e-02  
## 2089 -3.02e-03 -7.75e-03 4.69e-03 -7.53e-03 -1.10e-02 5.01e-03 2.66e-02  
## 2090 -1.95e-03 -6.79e-03 3.50e-03 4.07e-03 -6.20e-03 2.64e-03 1.54e-02  
## 2091 -1.74e-02 -6.49e-03 5.79e-03 -2.62e-04 -1.56e-02 7.07e-03 -4.00e-02  
## 2092 1.11e-02 2.11e-02 -1.89e-02 1.17e-02 5.02e-02 -4.23e-02 -9.27e-02  
## 2093 -1.61e-02 -2.12e-03 -9.40e-03 4.23e-03 2.09e-02 -2.99e-02 7.98e-02  
## 2094 -3.37e-02 2.97e-03 3.09e-02 2.22e-02 3.56e-02 -3.29e-02 9.95e-02  
## 2095 1.42e-02 -1.39e-02 -6.22e-03 -3.60e-03 9.75e-03 1.57e-03 5.17e-02  
## 2096 -3.13e-04 -2.31e-03 1.12e-02 -6.60e-03 -4.40e-04 1.08e-02 2.86e-02  
## 2097 2.10e-02 -5.42e-03 1.82e-02 -1.64e-02 -1.85e-02 9.54e-03 -1.03e-01  
## 2098 2.02e-02 -4.49e-03 -1.11e-02 -1.14e-02 1.95e-02 -6.87e-03 7.63e-02  
## 2099 1.92e-02 1.05e-02 -1.06e-02 3.86e-03 2.10e-02 3.60e-03 7.42e-02  
## 2100 1.64e-02 -3.33e-03 4.48e-03 7.56e-03 -1.03e-02 7.96e-03 -4.37e-02  
## 2101 -1.26e-02 -6.43e-03 -2.09e-02 -1.17e-03 -2.15e-02 4.08e-03 -4.58e-02  
## 2102 -1.63e-03 -4.17e-04 8.81e-04 -2.04e-04 1.15e-04 -1.29e-04 3.86e-03  
## 2103 -2.05e-02 -1.16e-02 -7.05e-03 9.01e-03 4.18e-03 -9.99e-03 6.50e-02  
## 2104 1.76e-03 -7.26e-03 6.64e-03 -6.98e-03 -9.57e-04 1.74e-03 2.24e-02  
## 2105 -1.13e-05 2.42e-03 9.29e-04 -2.53e-03 -7.85e-04 1.03e-04 5.89e-03  
## 2106 -2.35e-03 -5.07e-03 4.34e-03 -2.36e-03 -1.05e-02 8.61e-03 2.01e-02  
## 2107 2.38e-05 4.18e-04 1.08e-04 2.98e-04 3.39e-05 4.74e-05 8.86e-04  
## 2108 1.72e-03 6.69e-04 3.43e-03 1.72e-03 1.24e-04 -9.52e-04 1.38e-02  
## 2109 -1.01e-02 5.78e-03 -6.38e-03 -2.76e-03 6.03e-03 3.07e-03 4.35e-02  
## 2110 9.32e-04 -5.08e-03 -3.20e-03 4.71e-03 -1.31e-03 -1.56e-03 1.38e-02  
## 2111 3.20e-04 1.14e-03 -6.65e-04 1.06e-03 -1.69e-04 2.09e-03 4.54e-03  
## 2112 -7.59e-03 -8.12e-04 -2.32e-02 9.38e-04 1.57e-02 -4.62e-03 -8.47e-02  
## 2113 1.97e-03 6.78e-05 -4.04e-03 3.13e-03 -1.44e-03 3.22e-03 -1.60e-02  
## 2114 -2.31e-02 -6.00e-03 -9.38e-03 6.09e-03 2.10e-02 -9.32e-05 6.69e-02  
## 2115 -3.29e-04 -9.19e-04 -1.76e-03 -1.77e-03 -6.20e-04 -1.00e-03 4.42e-03  
## 2116 -1.19e-04 -1.13e-03 -9.58e-04 -3.10e-03 -1.48e-03 2.32e-03 -6.96e-03  
## 2117 -2.45e-03 -4.68e-03 4.34e-03 3.33e-03 -1.07e-02 9.14e-03 2.17e-02  
## 2118 -1.86e-02 1.68e-02 -1.09e-02 1.80e-02 -9.23e-03 -1.10e-02 6.66e-02  
## 2119 1.46e-02 -4.23e-03 -7.42e-03 7.45e-03 1.50e-02 -4.60e-03 5.33e-02  
## 2120 -1.20e-02 -7.31e-03 1.82e-02 1.62e-03 1.12e-02 -3.18e-02 -8.85e-02  
## 2121 -1.34e-03 1.60e-03 -1.35e-03 1.37e-03 -1.22e-03 1.17e-03 6.84e-03  
## 2122 3.24e-03 3.06e-03 1.30e-02 9.46e-03 -4.49e-03 1.18e-02 3.99e-02  
## 2123 -2.45e-02 -1.22e-02 3.10e-02 -1.70e-02 -1.28e-02 2.01e-02 -1.35e-01  
## 2124 5.38e-03 -1.08e-02 -5.21e-03 -2.24e-03 -9.24e-03 -4.49e-03 2.99e-02  
## 2125 -1.02e-02 -8.42e-03 6.64e-03 -8.72e-04 -1.45e-02 4.17e-03 -3.59e-02  
## 2126 -4.39e-02 -1.32e-02 1.44e-02 -1.75e-02 -1.44e-02 -7.89e-03 -1.04e-01  
## 2127 1.59e-03 9.93e-04 7.51e-04 -3.29e-04 8.12e-04 -5.35e-04 4.41e-03  
## 2128 -4.11e-04 5.09e-06 1.12e-03 2.08e-03 -1.20e-03 6.91e-04 6.44e-03  
## 2129 -1.07e-02 -1.03e-02 6.13e-03 -7.09e-04 -1.39e-02 -1.19e-04 -4.06e-02  
## 2130 -2.43e-03 -4.82e-03 4.47e-03 3.57e-03 -1.10e-02 9.47e-03 2.21e-02  
## 2131 -7.63e-03 -1.57e-02 -2.61e-03 -2.22e-03 -4.28e-03 6.64e-03 4.42e-02  
## 2132 2.82e-02 -2.31e-04 -7.46e-03 4.96e-03 1.93e-02 -1.72e-02 8.61e-02  
## 2133 -1.21e-04 1.13e-02 -7.59e-03 -9.31e-03 -6.06e-03 5.05e-03 2.34e-02  
## 2134 5.04e-03 -2.56e-03 -3.16e-03 4.24e-03 -6.49e-04 -2.03e-04 -1.65e-02  
## 2135 -2.58e-02 -4.29e-04 -1.06e-02 1.07e-03 -1.60e-02 -1.78e-03 6.37e-02  
## 2136 2.37e-02 1.55e-02 -3.13e-02 8.40e-03 -2.14e-02 -9.25e-04 -7.75e-02  
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## 2138 -1.16e-02 3.53e-03 5.70e-03 8.02e-03 9.00e-04 -2.72e-03 3.18e-02  
## 2139 -1.01e-02 2.80e-02 1.45e-02 5.56e-03 -7.29e-03 -2.69e-03 6.00e-02  
## 2140 4.17e-03 -1.15e-03 -1.18e-02 1.09e-02 -5.76e-03 4.95e-03 4.29e-02  
## 2141 1.76e-02 -1.59e-03 2.16e-02 1.99e-03 2.50e-02 -5.09e-03 5.75e-02  
## 2142 -7.04e-04 -2.43e-03 -2.11e-03 -3.65e-04 -2.07e-03 3.95e-03 1.50e-02  
## 2143 -1.98e-03 -6.22e-03 3.13e-03 -6.89e-04 -6.05e-03 2.41e-03 1.34e-02  
## 2144 -2.06e-03 -5.54e-03 3.08e-03 2.87e-03 -7.30e-03 6.08e-03 1.87e-02  
## 2145 -2.46e-03 8.90e-03 -5.61e-03 9.93e-03 4.79e-03 7.61e-03 4.94e-02  
## 2146 -2.87e-02 -1.80e-03 -8.64e-03 6.68e-03 1.54e-02 -6.64e-03 6.67e-02  
## 2147 1.63e-05 -4.51e-05 1.56e-04 1.13e-04 5.95e-06 2.16e-04 -4.94e-04  
## 2148 3.42e-03 7.15e-03 -1.36e-02 -2.30e-04 -1.65e-02 1.21e-02 5.65e-02  
## 2149 1.94e-02 -6.18e-03 -1.03e-02 6.98e-03 1.93e-02 -2.91e-03 6.13e-02  
## 2150 2.97e-05 1.20e-03 2.60e-04 6.72e-04 -4.85e-05 3.30e-04 2.54e-03  
## 2151 2.06e-02 5.99e-03 6.11e-03 -8.02e-03 -9.53e-03 -1.42e-03 -5.78e-02  
## 2152 1.92e-02 -4.50e-03 -2.11e-02 -6.01e-04 -2.34e-02 7.84e-03 -5.00e-02  
## 2153 -2.57e-03 5.24e-03 -3.61e-03 -1.32e-02 -1.54e-03 7.85e-03 4.11e-02  
## 2154 -2.86e-04 2.95e-04 -4.19e-04 3.52e-04 -3.75e-04 4.53e-05 1.56e-03  
## 2155 -7.27e-05 8.05e-03 1.99e-03 -6.93e-03 -3.40e-03 3.12e-03 1.59e-02  
## 2156 4.53e-03 -9.99e-04 6.31e-03 5.35e-03 6.89e-03 -2.64e-03 -2.29e-02  
## 2157 -1.57e-02 -5.85e-03 9.45e-03 -1.55e-03 -2.03e-02 7.04e-03 -4.93e-02  
## 2158 2.74e-02 -1.08e-02 2.77e-02 -7.75e-03 1.32e-02 -1.29e-02 7.06e-02  
## 2159 8.57e-03 6.69e-03 2.77e-03 -6.58e-03 3.90e-03 4.73e-03 -4.89e-02  
## 2160 -5.20e-03 -1.67e-03 1.83e-03 -2.94e-05 -1.90e-03 -2.29e-03 -9.41e-03  
## 2161 -6.23e-04 2.40e-03 2.28e-03 3.19e-03 -3.65e-03 3.67e-03 1.20e-02  
## 2162 7.55e-03 -8.89e-04 -3.55e-03 4.99e-03 1.67e-03 6.74e-04 2.35e-02  
## 2163 7.98e-03 -2.07e-03 1.29e-03 -2.69e-03 -3.15e-03 8.33e-03 -3.35e-02  
## 2164 -9.55e-03 -7.58e-03 5.26e-03 -1.27e-02 -9.33e-03 2.93e-03 -4.28e-02  
## 2165 1.44e-03 -1.37e-03 -2.44e-03 -4.48e-03 3.33e-04 -4.25e-05 -1.08e-02  
## 2166 3.53e-03 2.76e-03 -6.61e-03 1.86e-03 -4.76e-04 -2.11e-03 2.05e-02  
## 2167 -2.67e-02 -2.12e-03 1.68e-02 -2.29e-04 -7.19e-03 -1.17e-03 5.75e-02  
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## 2169 -2.50e-02 1.05e-03 3.02e-02 1.92e-03 3.49e-02 -2.29e-02 8.31e-02  
## 2170 -5.66e-04 9.73e-04 1.87e-03 -3.08e-03 -2.74e-03 2.09e-03 8.64e-03  
## 2171 -3.75e-02 2.22e-02 -3.50e-02 -8.30e-03 -3.09e-02 4.26e-03 -9.36e-02  
## 2172 1.68e-04 -4.63e-04 3.32e-03 2.07e-04 -1.07e-03 4.01e-03 -8.54e-03  
## 2173 -1.92e-03 6.19e-03 -2.37e-03 3.12e-04 -3.17e-04 6.66e-03 1.81e-02  
## 2174 2.03e-05 -1.39e-03 -9.84e-04 6.79e-04 -6.41e-04 1.88e-03 -6.23e-03  
## 2175 -7.64e-04 3.81e-03 2.41e-03 -1.40e-03 -5.45e-03 6.26e-03 1.41e-02  
## 2176 -1.09e-03 3.48e-03 -1.63e-03 2.29e-04 1.44e-03 3.06e-03 1.34e-02  
## 2177 -4.39e-03 -2.52e-03 -3.08e-03 -7.20e-04 -6.30e-03 -1.43e-03 1.68e-02  
## 2178 1.02e-03 9.25e-03 -4.46e-03 5.53e-03 3.14e-03 6.85e-03 2.70e-02  
## 2179 3.61e-03 -1.16e-03 -1.09e-02 -1.14e-02 -7.94e-03 6.77e-03 4.16e-02  
## 2180 1.24e-02 -4.00e-03 3.46e-03 -1.82e-03 -5.04e-03 1.12e-02 -3.81e-02  
## 2181 -4.22e-03 2.57e-02 -2.78e-02 -7.40e-03 1.07e-02 -9.04e-04 -1.07e-01  
## 2182 2.77e-05 -1.51e-03 -8.37e-04 9.02e-04 -6.56e-04 1.34e-03 -5.40e-03  
## 2183 5.98e-05 2.45e-04 -1.64e-04 2.35e-04 -1.03e-04 5.11e-04 1.01e-03  
## 2184 7.37e-03 -9.72e-03 -8.67e-03 3.61e-03 1.26e-03 2.38e-03 4.52e-02  
## 2185 2.44e-04 -5.64e-05 -1.87e-03 3.04e-03 -1.02e-03 5.12e-03 -1.16e-02  
## 2186 1.65e-03 -1.30e-03 -3.26e-03 -1.19e-04 2.68e-03 -9.24e-04 -1.03e-02  
## 2187 7.13e-03 -4.71e-03 1.69e-03 -8.87e-04 -7.41e-03 9.01e-03 -3.03e-02  
## 2188 2.22e-05 -2.89e-05 2.36e-05 2.79e-05 3.35e-05 1.67e-06 -1.22e-04  
## 2189 -2.02e-04 -9.74e-04 -1.39e-03 1.46e-03 3.73e-06 -1.28e-03 4.19e-03  
## 2190 -1.74e-02 -6.45e-03 5.92e-03 -2.26e-04 -1.54e-02 6.95e-03 -4.03e-02  
## 2191 -9.00e-04 1.86e-04 3.26e-03 5.42e-03 -3.85e-03 -7.39e-04 1.71e-02  
## 2192 -1.59e-03 -6.84e-03 2.86e-03 3.74e-03 -4.58e-03 1.91e-03 1.45e-02  
## 2193 -5.00e-03 -6.92e-03 3.78e-03 2.39e-03 -2.26e-03 -2.44e-04 1.47e-02  
## 2194 7.85e-03 7.89e-03 -1.06e-02 1.27e-02 -1.51e-03 -2.00e-03 4.50e-02  
## 2195 -2.13e-06 -1.42e-04 -1.03e-04 -2.93e-04 -5.49e-05 2.08e-04 -7.02e-04  
## 2196 8.10e-03 1.04e-02 1.05e-02 1.71e-03 -1.72e-03 -7.44e-04 3.76e-02  
## 2197 -2.85e-03 -9.70e-04 3.01e-03 -3.43e-03 -1.53e-03 -2.51e-03 1.03e-02  
## 2198 -1.19e-02 -8.44e-03 7.05e-03 -1.40e-02 -1.52e-02 6.31e-04 -4.93e-02  
## 2199 -5.77e-05 -8.10e-05 -5.85e-05 3.68e-06 -9.31e-06 1.01e-04 3.51e-04  
## 2200 4.88e-03 1.18e-02 1.57e-02 -2.57e-02 1.11e-02 -4.07e-02 -1.15e-01  
## 2201 -7.15e-03 1.76e-02 -5.90e-03 8.35e-03 8.20e-03 -8.05e-03 6.65e-02  
## 2202 2.43e-02 2.79e-02 4.81e-03 2.33e-02 1.35e-02 -1.38e-02 -9.58e-02  
## 2203 -2.22e-02 -1.49e-03 6.34e-03 -2.97e-03 -1.61e-02 1.23e-02 -5.39e-02  
## 2204 4.76e-03 -2.26e-03 1.17e-03 -1.62e-03 -3.53e-03 1.18e-02 -2.71e-02  
## 2205 -2.99e-03 -6.00e-03 -9.08e-03 -1.44e-02 -1.46e-02 8.35e-03 2.95e-02  
## 2206 9.30e-04 3.29e-03 5.06e-03 3.11e-03 1.94e-03 4.79e-03 1.50e-02  
## 2207 -2.97e-03 2.42e-03 -6.46e-03 1.94e-02 1.86e-03 4.22e-03 4.58e-02  
## 2208 -7.27e-04 2.81e-03 2.10e-03 2.77e-03 -4.14e-03 4.35e-03 1.22e-02  
## 2209 4.27e-05 7.61e-03 1.65e-03 -3.53e-03 -2.80e-03 3.28e-03 1.51e-02  
## 2210 2.16e-02 -1.88e-03 6.42e-03 -3.89e-03 -1.84e-02 1.24e-02 -5.57e-02  
## 2211 2.05e-04 -8.42e-05 2.09e-04 1.43e-04 -1.34e-04 2.07e-04 -9.58e-04  
## 2212 -2.70e-03 -1.68e-02 -1.96e-03 -7.82e-03 -9.95e-03 1.01e-02 3.80e-02  
## 2213 3.35e-03 -1.34e-03 -5.06e-03 3.49e-05 4.48e-03 -1.28e-03 -1.58e-02  
## 2214 2.17e-03 -1.18e-03 4.36e-03 -2.11e-04 3.12e-03 -3.33e-03 -1.67e-02  
## 2215 -1.72e-02 -4.02e-03 3.78e-02 5.05e-03 2.05e-02 -1.33e-02 8.49e-02  
## 2216 4.26e-03 -2.49e-03 4.17e-03 4.07e-03 4.26e-03 -1.76e-03 -1.97e-02  
## 2217 -8.16e-03 -1.48e-03 -6.45e-03 -9.25e-04 -4.77e-03 4.77e-03 -3.31e-02  
## 2218 -7.62e-03 -1.80e-02 -5.00e-03 -6.38e-03 7.74e-04 2.72e-03 5.90e-02  
## 2219 2.36e-02 4.69e-03 5.72e-03 -7.43e-03 -8.84e-03 5.44e-03 -5.93e-02  
## 2220 -1.35e-02 -5.05e-03 6.84e-03 -4.73e-03 -1.70e-02 6.67e-03 -6.13e-02  
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## 2222 3.57e-03 7.33e-03 2.27e-03 4.25e-03 4.69e-03 9.13e-04 1.75e-02  
## 2223 -1.21e-04 -5.25e-04 -6.41e-04 2.93e-04 -3.70e-05 -6.93e-04 1.70e-03  
## 2224 -2.17e-04 8.03e-03 -1.58e-03 -4.73e-03 -2.22e-03 9.83e-03 2.52e-02  
## 2225 1.79e-02 7.11e-03 2.60e-02 8.76e-04 3.33e-02 -7.72e-04 6.62e-02  
## 2226 -3.90e-05 -1.13e-03 -5.18e-04 -1.64e-03 -5.95e-04 8.81e-04 -3.92e-03  
## 2227 -1.49e-02 -5.91e-03 9.92e-03 -1.85e-03 -2.17e-02 -1.96e-03 -4.33e-02  
## 2228 4.05e-06 -1.41e-03 -4.94e-04 7.95e-04 -1.53e-05 6.75e-05 -3.47e-03  
## 2229 1.46e-03 -3.67e-03 -1.38e-03 2.71e-03 -1.56e-03 -8.16e-04 8.36e-03  
## 2230 3.04e-03 1.03e-02 3.82e-03 5.67e-03 2.32e-03 -7.92e-04 2.17e-02  
## 2231 6.85e-03 7.59e-04 -5.10e-03 -1.57e-03 -4.73e-03 -2.49e-03 2.42e-02  
## 2232 2.07e-02 1.71e-02 -1.17e-02 2.26e-02 2.86e-02 -9.49e-04 7.83e-02  
## 2233 -1.48e-02 8.22e-03 -9.54e-03 -5.82e-03 -4.32e-04 -1.69e-03 5.01e-02  
## 2234 -1.87e-02 -1.45e-03 -8.21e-03 3.28e-03 3.22e-02 -3.87e-02 9.39e-02  
## 2235 -2.69e-03 -1.35e-03 -2.07e-03 -1.45e-04 -4.70e-03 2.28e-03 -1.20e-02  
## 2236 1.89e-03 -1.12e-03 2.10e-03 -2.96e-04 4.39e-03 -1.27e-03 -1.07e-02  
## 2237 -1.89e-05 3.39e-04 -7.05e-04 -1.08e-04 -1.20e-04 -4.92e-04 1.75e-03  
## 2238 -4.72e-04 -1.39e-03 1.23e-03 7.59e-04 -7.58e-04 -1.64e-03 6.01e-03  
## 2239 -6.97e-03 -1.70e-02 -1.41e-05 1.10e-02 -1.16e-02 1.72e-02 5.45e-02  
## 2240 -1.08e-02 -1.02e-02 3.21e-02 -4.48e-02 9.02e-03 2.42e-02 -1.25e-01  
## 2241 9.37e-04 2.76e-03 4.45e-03 -2.63e-03 1.00e-03 5.06e-03 1.28e-02  
## 2242 1.10e-02 3.35e-03 6.19e-03 -2.68e-03 -9.92e-03 2.68e-02 -5.72e-02  
## 2243 2.04e-06 -7.12e-04 -2.91e-04 3.45e-04 -1.60e-05 1.64e-04 -1.74e-03  
## 2244 9.19e-04 -8.47e-03 -7.81e-03 -1.19e-02 -7.23e-03 4.24e-04 3.45e-02  
## 2245 -1.78e-02 -1.02e-02 1.76e-02 1.32e-02 -6.18e-03 -6.39e-03 5.39e-02  
## 2246 -6.23e-04 1.59e-03 2.03e-03 -3.66e-03 -3.42e-03 3.07e-03 1.00e-02  
## 2247 -2.18e-02 -6.72e-03 -1.12e-02 1.84e-03 -1.81e-02 -8.44e-03 6.14e-02  
## 2248 6.00e-04 3.81e-03 -1.67e-03 2.71e-03 -5.12e-04 3.82e-03 -9.47e-03  
## 2249 -9.17e-03 -2.62e-03 -6.49e-03 5.25e-03 3.50e-03 2.65e-04 -2.92e-02  
## 2250 -2.95e-04 -1.96e-04 1.38e-04 1.39e-04 -4.28e-05 -1.73e-04 -8.14e-04  
## 2251 1.97e-03 -1.47e-03 9.25e-03 8.34e-03 -2.20e-04 4.47e-03 4.01e-02  
## 2252 1.48e-03 1.01e-03 2.14e-03 -1.91e-03 6.98e-04 -2.08e-03 1.19e-02  
## 2253 -2.07e-03 -2.21e-03 3.63e-03 -3.25e-04 -2.83e-03 6.79e-04 1.10e-02  
## 2254 -1.65e-04 1.12e-04 -2.19e-04 -4.38e-04 -7.04e-05 1.13e-04 -1.19e-03  
## 2255 3.17e-04 8.40e-03 1.32e-03 2.40e-03 -1.71e-03 4.15e-03 1.29e-02  
## 2256 -2.15e-02 5.37e-03 -2.50e-02 1.49e-02 -3.37e-02 1.76e-02 -7.99e-02  
## 2257 3.51e-03 -1.10e-02 -6.23e-03 -1.86e-03 -6.41e-03 1.65e-03 3.75e-02  
## 2258 -1.77e-02 -6.03e-03 5.50e-03 -8.38e-04 -1.57e-02 6.77e-03 -3.99e-02  
## 2259 2.79e-02 1.24e-02 1.24e-02 2.99e-02 -2.07e-02 4.30e-02 -1.01e-01  
## 2260 5.98e-05 8.13e-04 -5.57e-04 -8.31e-04 -1.59e-04 1.08e-03 3.39e-03  
## 2261 8.30e-03 6.45e-03 3.52e-03 -1.63e-02 -1.25e-02 3.11e-02 -5.89e-02  
## 2262 -1.62e-03 -1.58e-03 -3.93e-03 -8.65e-03 -5.86e-04 4.16e-03 3.46e-02  
## 2263 2.05e-05 1.43e-04 -1.12e-04 1.41e-05 -6.95e-05 2.73e-04 6.29e-04  
## 2264 -1.14e-05 1.65e-03 -1.73e-03 -1.72e-03 -4.04e-04 -2.67e-04 4.21e-03  
## 2265 -1.47e-02 -7.88e-03 -2.13e-02 -1.42e-02 -2.96e-02 1.97e-03 -4.88e-02  
## 2266 -1.68e-02 -4.68e-03 3.83e-03 -1.65e-03 -1.08e-02 1.10e-02 -4.40e-02  
## 2267 -1.15e-02 -1.09e-02 -2.71e-03 9.59e-03 4.82e-03 7.36e-03 7.31e-02  
## 2268 5.26e-03 2.33e-04 -1.36e-02 -1.04e-03 -9.05e-03 7.54e-03 5.35e-02  
## 2269 -4.04e-04 -2.37e-04 1.17e-03 -1.52e-03 -1.23e-03 2.17e-05 5.84e-03  
## 2270 1.57e-02 2.35e-02 1.10e-02 -7.25e-03 -1.99e-02 2.02e-02 -8.95e-02  
## 2271 -1.09e-02 -6.45e-03 8.01e-03 -1.18e-03 -1.61e-02 3.83e-03 -4.55e-02  
## 2272 -5.60e-03 -2.25e-02 2.65e-02 9.55e-03 -7.63e-04 -1.97e-03 6.41e-02  
## 2273 8.53e-03 5.85e-02 6.40e-03 -2.23e-02 2.04e-02 -2.08e-02 -1.13e-01  
## 2274 7.14e-04 1.20e-03 -1.22e-02 4.50e-04 -1.39e-02 6.61e-03 5.20e-02  
## 2275 -1.80e-04 6.76e-04 -1.75e-03 1.79e-05 -3.41e-04 -2.65e-03 6.71e-03  
## 2276 -2.14e-02 -1.85e-03 -3.44e-03 -1.62e-02 1.11e-02 -3.35e-02 1.09e-01  
## 2277 3.78e-02 8.58e-03 1.44e-02 1.30e-02 2.54e-02 3.67e-03 -8.27e-02  
## 2278 7.31e-03 4.13e-02 3.97e-03 2.62e-03 2.55e-02 -4.14e-02 -1.12e-01  
## 2279 -1.28e-02 -9.56e-03 8.63e-03 -1.27e-02 -2.20e-02 2.01e-03 -3.99e-02  
## 2280 3.26e-03 -4.14e-03 7.96e-03 8.22e-03 -6.23e-04 -9.63e-04 4.13e-02  
## 2281 2.79e-02 4.46e-02 -3.79e-02 -1.84e-02 -9.09e-03 -8.70e-03 -1.20e-01  
## 2282 -2.62e-02 -7.13e-03 -1.07e-02 -1.07e-02 -1.82e-02 -4.57e-03 7.02e-02  
## 2283 -2.54e-03 -3.83e-02 1.14e-02 2.62e-02 1.62e-02 -4.07e-02 -1.22e-01  
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## 2285 -1.02e-04 -2.47e-04 -6.93e-04 -1.04e-03 -2.83e-04 -7.54e-04 -2.47e-03  
## 2286 1.93e-02 8.45e-03 1.14e-02 3.13e-02 2.09e-02 -3.46e-03 -8.92e-02  
## 2287 -1.48e-02 -4.95e-03 3.73e-03 -1.63e-03 -1.09e-02 8.50e-03 -3.56e-02  
## 2288 1.37e-03 -1.27e-03 -1.97e-03 2.45e-04 1.28e-03 2.07e-04 -6.41e-03  
## 2289 1.64e-03 -1.41e-03 -3.67e-03 2.45e-03 3.00e-03 -1.51e-03 -1.15e-02  
## 2290 8.69e-03 1.05e-03 2.79e-03 -3.51e-03 -8.00e-03 2.22e-02 -4.47e-02  
## 2291 -1.17e-02 -1.07e-02 1.80e-02 3.80e-03 1.22e-02 -3.59e-02 -8.05e-02  
## 2292 3.17e-03 6.00e-03 1.68e-02 -1.96e-03 -1.00e-02 1.44e-02 5.49e-02  
## 2293 2.58e-03 7.68e-03 -4.54e-02 -2.14e-02 -8.81e-03 -9.26e-03 -1.02e-01  
## 2294 8.69e-03 7.37e-03 -3.97e-03 3.67e-04 6.27e-03 5.09e-03 2.17e-02  
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## 2299 -1.51e-03 -2.03e-03 2.62e-02 2.04e-03 1.97e-02 -1.31e-02 -8.09e-02  
## 2300 -1.89e-03 -6.41e-04 -2.34e-03 -4.75e-04 6.07e-04 6.11e-03 2.17e-02  
## 2301 -1.46e-02 -1.36e-02 -3.77e-03 -2.26e-02 -1.56e-03 -2.23e-03 6.23e-02  
## 2302 1.88e-02 1.20e-02 -1.28e-02 1.34e-03 2.90e-02 2.20e-04 5.61e-02  
## 2303 1.06e-02 1.12e-02 -9.53e-03 1.13e-02 -1.36e-03 -4.94e-03 4.75e-02  
## 2304 -4.50e-04 -1.40e-03 -1.21e-03 -2.04e-03 -3.27e-04 2.71e-03 9.02e-03  
## 2305 1.64e-02 1.32e-02 -4.24e-03 -1.02e-03 7.37e-03 8.09e-03 3.32e-02  
## 2306 8.57e-04 -4.75e-04 1.32e-03 1.21e-03 1.27e-04 1.34e-03 -6.34e-03  
## 2307 -4.28e-03 -1.97e-02 -4.46e-03 6.84e-03 -1.20e-03 1.32e-03 5.04e-02  
## 2308 -5.95e-04 1.38e-03 1.89e-03 2.84e-03 -2.67e-03 2.17e-03 9.61e-03  
## 2309 -2.04e-03 4.54e-06 -5.66e-03 -3.10e-03 4.56e-03 9.89e-04 4.10e-02  
## 2310 2.38e-03 -1.36e-03 3.52e-03 3.29e-03 5.46e-03 -2.89e-03 -1.35e-02  
## 2311 -9.89e-03 7.52e-04 -5.87e-03 -1.12e-02 -9.61e-03 6.58e-04 3.56e-02  
## 2312 -2.37e-03 -5.24e-03 4.29e-03 3.58e-03 -9.70e-03 7.68e-03 2.04e-02  
## 2313 1.91e-06 1.87e-04 1.22e-04 3.40e-04 4.69e-05 -2.19e-04 8.24e-04  
## 2314 -6.62e-04 -2.96e-04 -3.74e-04 2.56e-04 -2.06e-04 -3.77e-04 -1.30e-03  
## 2315 -1.59e-02 -5.23e-03 3.30e-02 2.89e-03 3.01e-02 -1.54e-02 7.99e-02  
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## 2317 1.98e-02 -1.55e-02 -1.38e-03 -1.06e-02 -8.23e-03 1.14e-02 5.02e-02  
## 2318 -7.07e-06 -1.57e-03 -1.02e-03 9.61e-04 -9.02e-04 1.53e-03 -7.34e-03  
## 2319 9.33e-03 1.05e-02 4.22e-03 7.17e-03 -3.77e-04 5.61e-03 -4.95e-02  
## 2320 -1.73e-02 5.01e-03 7.99e-03 -6.34e-03 -9.60e-03 1.29e-02 -7.32e-02  
## 2321 -2.74e-03 -6.17e-03 -1.01e-02 -2.07e-03 -1.37e-02 9.76e-03 2.67e-02  
## 2322 3.98e-05 -2.15e-03 4.28e-03 3.46e-05 -8.15e-04 3.75e-03 1.03e-02  
## 2323 3.36e-02 -6.57e-03 -6.33e-03 -9.05e-03 1.17e-02 -8.05e-03 8.21e-02  
## 2324 -9.37e-03 -1.56e-02 3.67e-02 -2.43e-02 2.43e-03 -4.43e-03 7.90e-02  
## 2325 -5.44e-03 -4.50e-04 9.55e-03 4.68e-03 5.18e-03 4.01e-03 2.71e-02  
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## 2327 -1.07e-03 2.50e-03 -9.43e-03 7.76e-03 -8.48e-03 1.06e-03 2.61e-02  
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## 2331 3.89e-03 -1.94e-03 -1.34e-02 1.12e-02 -6.55e-03 -1.43e-03 4.66e-02  
## 2332 -1.70e-02 -1.63e-03 9.91e-03 2.81e-02 -2.07e-02 -4.95e-03 -6.36e-02  
## 2333 7.33e-03 -8.90e-03 4.12e-03 2.28e-02 9.08e-03 -9.36e-03 -8.28e-02  
## 2334 3.16e-04 7.15e-04 -2.48e-03 4.31e-03 -4.33e-03 9.58e-03 -1.80e-02  
## 2335 9.45e-03 1.95e-04 1.39e-03 -4.00e-03 -1.65e-03 5.77e-03 -3.78e-02  
## 2336 -6.03e-03 -1.68e-03 4.31e-03 -1.18e-03 2.49e-03 -2.25e-03 2.07e-02  
## 2337 -1.08e-04 -6.14e-04 -1.12e-03 7.33e-04 1.73e-06 -1.18e-03 -3.08e-03  
## 2338 -1.01e-02 -1.84e-02 2.38e-02 -1.96e-02 9.51e-03 -9.50e-03 6.40e-02  
## 2339 4.65e-03 5.06e-03 -1.34e-02 1.35e-02 -8.84e-03 1.28e-02 5.41e-02  
## 2340 7.69e-03 1.73e-02 4.90e-03 7.34e-03 4.20e-03 2.17e-03 3.87e-02  
## 2341 -2.78e-03 -5.74e-03 -9.01e-03 -1.45e-02 -1.35e-02 9.99e-03 2.91e-02  
## 2342 -1.83e-03 5.92e-03 -2.63e-03 3.61e-04 2.05e-03 6.31e-03 1.84e-02  
## 2343 -1.19e-03 3.34e-03 2.96e-03 4.02e-03 -6.81e-03 5.02e-03 2.12e-02  
## 2344 1.50e-03 -6.11e-03 2.53e-03 -2.55e-03 1.45e-03 -2.69e-03 1.31e-02  
## 2345 -3.24e-03 -1.49e-03 -2.13e-03 1.47e-03 -2.12e-03 -2.04e-03 -7.90e-03  
## 2346 3.32e-02 9.94e-03 -9.10e-03 3.71e-03 2.16e-02 -1.69e-02 8.06e-02  
## 2347 -3.67e-03 -4.52e-03 -3.15e-03 4.40e-03 -1.99e-03 1.59e-03 -1.58e-02  
## 2348 -3.05e-03 -5.79e-03 -9.02e-03 -1.46e-02 -1.42e-02 8.47e-03 2.66e-02  
## 2349 -3.19e-02 1.06e-02 -1.17e-02 1.49e-03 2.95e-02 -1.23e-02 7.43e-02  
## 2350 1.23e-04 4.52e-03 6.16e-04 1.42e-03 -9.67e-04 2.49e-03 7.83e-03  
## 2351 -2.29e-03 -4.29e-03 4.60e-03 3.52e-03 -9.16e-04 1.19e-05 -1.66e-02  
## 2352 2.28e-03 -8.76e-03 -6.03e-03 -2.73e-03 -2.76e-03 8.91e-04 2.88e-02  
## 2353 4.63e-04 2.18e-04 -3.20e-04 -5.41e-04 2.23e-04 5.93e-05 -1.36e-03  
## 2354 3.68e-05 1.80e-04 -1.17e-04 -1.03e-04 -5.43e-06 2.24e-04 -6.12e-04  
## 2355 5.96e-03 -1.05e-02 -6.24e-03 -1.10e-02 -1.40e-02 -5.80e-03 3.98e-02  
## 2356 8.83e-05 -8.47e-04 -1.75e-03 7.87e-04 -2.51e-03 5.18e-03 -1.16e-02  
## 2357 -7.18e-03 -2.31e-03 -2.39e-02 -1.81e-02 3.03e-03 -2.23e-02 -8.72e-02  
## 2358 -1.54e-02 -1.47e-02 -7.31e-03 5.25e-03 7.80e-04 -5.99e-03 4.25e-02  
## 2359 3.33e-03 5.68e-03 -1.31e-02 -1.56e-03 -1.10e-02 1.44e-02 4.31e-02  
## 2360 1.74e-02 -2.12e-04 -1.09e-02 6.10e-03 1.41e-02 -1.81e-02 7.78e-02  
## 2361 2.99e-02 -1.22e-02 3.10e-02 -2.77e-02 1.05e-02 -1.67e-02 9.15e-02  
## 2362 -1.07e-02 -1.02e-02 6.25e-03 -6.81e-04 -1.36e-02 -2.86e-04 -4.08e-02  
## 2363 -1.99e-02 -3.62e-03 5.97e-03 1.01e-02 -1.47e-02 1.24e-02 -4.82e-02  
## 2364 9.12e-05 3.30e-04 -2.13e-04 2.39e-05 -1.33e-04 7.01e-04 1.36e-03  
## 2365 -1.48e-04 3.31e-04 3.92e-04 -2.88e-05 2.81e-04 4.15e-04 1.51e-03  
## 2366 8.02e-06 1.99e-04 -1.48e-04 -2.08e-04 -1.09e-04 3.32e-04 8.37e-04  
## 2367 -4.48e-03 -5.33e-03 -1.33e-02 -3.10e-03 -2.39e-02 1.22e-02 4.05e-02  
## 2368 3.92e-03 -7.69e-04 -6.04e-03 -1.53e-04 5.21e-03 -1.46e-03 -1.88e-02  
## 2369 -9.24e-05 1.12e-04 1.36e-04 -4.83e-06 -4.01e-05 3.38e-05 -6.21e-04  
## 2370 -2.49e-03 -4.77e-03 4.02e-03 3.19e-03 -1.05e-02 8.60e-03 2.06e-02  
## 2371 3.53e-05 2.89e-04 -1.68e-04 -2.60e-04 -1.13e-04 5.05e-04 1.35e-03  
## 2372 1.17e-02 2.09e-02 -1.04e-02 1.26e-03 -5.27e-03 4.98e-04 5.21e-02  
## 2373 4.38e-04 -5.12e-03 -3.21e-03 1.83e-03 -1.26e-03 -1.13e-03 1.48e-02  
## 2374 -2.18e-02 9.58e-03 1.11e-02 -1.04e-02 -2.58e-02 -6.13e-03 -7.11e-02  
## 2375 1.08e-02 1.22e-02 -3.31e-02 2.31e-02 1.37e-03 8.54e-03 -7.32e-02  
## 2376 -5.13e-03 -1.77e-02 -1.70e-03 -9.18e-03 -3.61e-03 4.93e-03 3.74e-02  
## 2377 -7.32e-04 2.61e-03 2.08e-03 2.81e-03 -3.93e-03 3.97e-03 1.19e-02  
## 2378 2.41e-03 1.20e-03 3.50e-03 -2.08e-03 2.56e-03 -1.75e-03 1.62e-02  
## 2379 7.79e-03 -4.60e-03 -1.13e-02 2.12e-03 -3.71e-04 1.15e-02 5.21e-02  
## 2380 -1.63e-02 -1.52e-02 -4.45e-03 -3.35e-03 -2.35e-03 7.37e-03 6.49e-02  
## 2381 6.06e-03 1.43e-03 1.33e-02 9.19e-03 -7.86e-04 1.38e-02 5.79e-02  
## 2382 1.38e-03 -6.90e-03 5.81e-03 7.24e-03 3.49e-04 -1.04e-03 2.16e-02  
## 2383 -2.00e-02 -1.97e-03 4.09e-02 4.51e-03 2.66e-02 -5.44e-02 1.09e-01  
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## 2385 2.49e-03 4.98e-03 -3.71e-03 -2.86e-03 4.05e-03 -2.17e-03 -1.35e-02  
## 2386 -5.39e-04 1.92e-03 1.74e-03 -8.18e-04 -3.57e-03 4.37e-03 1.14e-02  
## 2387 1.21e-02 1.11e-03 -1.15e-02 9.99e-04 -1.99e-02 2.11e-03 6.51e-02  
## 2388 3.43e-02 -5.03e-03 -7.86e-03 -1.19e-02 1.35e-02 -1.35e-02 7.50e-02  
## 2389 8.54e-03 -1.08e-02 1.31e-02 -3.04e-02 -1.33e-02 1.03e-02 -8.26e-02  
## 2390 7.96e-03 8.86e-04 -3.26e-03 1.39e-04 4.85e-03 5.15e-03 2.50e-02  
## 2391 3.69e-02 2.44e-02 -7.56e-03 1.08e-02 1.12e-02 -1.30e-03 7.81e-02  
## 2392 -1.55e-02 1.06e-02 1.90e-02 -3.82e-03 9.65e-03 -2.77e-03 5.65e-02  
## 2393 1.00e-02 -3.84e-03 4.05e-03 -4.71e-04 -1.10e-02 1.16e-02 -3.51e-02  
## 2394 7.32e-03 4.47e-03 -1.31e-02 1.18e-02 -6.11e-03 1.66e-02 6.65e-02  
## 2395 -1.74e-02 -6.83e-03 -1.03e-02 -2.92e-02 -1.84e-02 3.55e-03 8.27e-02  
## 2396 -1.78e-02 -1.45e-02 1.72e-02 -2.23e-02 2.04e-02 -2.04e-02 7.34e-02  
## 2397 1.72e-03 -4.21e-03 -8.97e-03 1.01e-03 -8.65e-03 -6.47e-04 5.35e-02  
## 2398 -2.08e-03 -5.61e-03 3.14e-03 2.92e-03 -7.29e-03 6.02e-03 1.89e-02  
## 2399 3.18e-03 4.63e-03 2.78e-03 3.04e-03 5.50e-03 -7.99e-04 -1.38e-02  
## 2400 1.72e-02 5.81e-03 -6.18e-03 -2.92e-03 7.84e-03 -3.54e-04 4.18e-02  
## 2401 8.70e-03 3.25e-03 5.77e-03 -2.93e-03 -1.29e-02 1.59e-02 -5.01e-02  
## 2402 1.07e-02 -3.22e-03 3.14e-03 -1.86e-03 -1.29e-02 1.74e-02 -4.35e-02  
## 2403 -1.33e-02 -8.54e-03 8.56e-03 -1.42e-03 -2.02e-02 4.70e-04 -4.67e-02  
## 2404 -4.93e-05 -8.20e-04 -3.99e-04 -1.23e-03 -4.81e-04 6.76e-04 -2.89e-03  
## 2405 -7.46e-03 1.68e-03 -7.40e-03 -4.94e-03 -2.92e-03 -6.80e-03 4.27e-02  
## 2406 1.25e-02 -1.04e-02 1.99e-02 7.72e-03 1.37e-02 2.63e-05 4.85e-02  
## 2407 7.26e-05 -6.68e-05 1.04e-04 -8.44e-05 8.35e-05 -2.96e-06 -4.43e-04  
## 2408 -2.42e-02 -2.87e-03 -3.27e-02 -4.62e-02 -2.87e-02 1.92e-02 -1.49e-01  
## 2409 -7.75e-03 1.51e-02 4.56e-03 -5.45e-03 4.89e-03 -6.44e-04 3.67e-02  
## 2410 -8.34e-04 8.95e-04 -5.66e-03 -7.02e-03 -4.92e-03 1.75e-03 1.49e-02  
## 2411 1.17e-02 1.30e-02 1.98e-03 5.25e-03 1.67e-03 -3.30e-03 -6.36e-02  
## 2412 -7.16e-03 2.10e-02 -7.30e-03 -2.59e-02 1.13e-02 -8.28e-03 6.75e-02  
## 2413 5.76e-03 -4.10e-03 1.15e-02 -1.85e-04 5.78e-04 4.13e-03 4.43e-02  
## 2414 1.89e-02 -3.11e-03 -6.11e-03 -2.47e-02 5.81e-03 -6.22e-03 7.61e-02  
## 2415 4.42e-03 5.41e-03 5.76e-03 -1.07e-02 -6.90e-04 1.89e-03 2.65e-02  
## 2416 1.15e-02 -4.17e-03 1.29e-02 -1.25e-02 -4.43e-03 9.07e-03 5.95e-02  
## 2417 -1.17e-02 -1.70e-02 -4.92e-03 -7.15e-03 -9.04e-04 -6.69e-03 4.22e-02  
## 2418 1.93e-02 1.91e-02 -1.20e-02 5.01e-04 2.51e-02 1.99e-05 7.53e-02  
## 2419 -5.61e-04 1.40e-03 2.02e-03 3.06e-03 -2.80e-03 2.37e-03 1.01e-02  
## 2420 1.57e-04 -5.08e-02 1.56e-02 2.92e-02 -4.26e-03 -2.92e-02 -1.16e-01  
## 2421 -2.54e-03 -8.65e-03 -7.61e-03 2.32e-04 -8.20e-03 4.99e-04 1.87e-02  
## 2422 8.51e-03 -3.77e-03 -1.05e-02 -8.84e-03 -6.52e-03 3.81e-03 5.90e-02  
## 2423 3.29e-02 -4.72e-03 -2.38e-02 3.81e-03 6.13e-03 -2.30e-02 -8.50e-02  
## 2424 1.03e-02 2.08e-02 5.56e-03 2.51e-02 9.31e-04 -1.48e-03 -7.80e-02  
## 2425 7.07e-03 9.92e-04 -4.02e-03 -4.47e-04 3.22e-03 1.51e-03 2.46e-02  
## 2426 3.98e-03 1.16e-02 -6.55e-03 6.51e-03 1.94e-03 -3.45e-04 2.24e-02  
## 2427 -9.79e-03 -1.24e-02 1.49e-02 -1.37e-02 1.60e-02 -3.16e-02 -8.30e-02  
## 2428 -9.82e-04 -2.30e-03 3.27e-03 2.15e-03 -2.99e-03 -3.71e-03 1.54e-02  
## 2429 -1.25e-02 7.09e-03 8.10e-03 9.24e-03 4.19e-03 -3.48e-03 4.55e-02  
## 2430 -2.05e-03 -5.63e-03 3.45e-03 3.31e-03 -8.60e-03 7.59e-03 2.04e-02  
## 2431 1.24e-02 -7.27e-03 -1.03e-02 -9.90e-03 -1.15e-02 1.02e-03 5.71e-02  
## 2432 1.20e-02 -6.57e-03 -8.71e-03 -6.99e-03 1.34e-02 -2.19e-03 5.99e-02  
## 2433 2.29e-03 -3.80e-03 8.81e-03 6.50e-04 -2.44e-03 -5.55e-03 3.66e-02  
## 2434 1.47e-02 8.20e-03 5.70e-03 2.29e-02 -9.88e-03 2.71e-02 -7.02e-02  
## 2435 -4.17e-04 3.71e-04 1.11e-03 -4.03e-03 -1.91e-03 1.72e-03 7.08e-03  
## 2436 -1.81e-03 -7.59e-03 -5.24e-03 -3.05e-03 -5.23e-03 -2.40e-04 1.43e-02  
## 2437 3.46e-02 1.29e-02 3.94e-02 2.28e-02 3.53e-02 -1.51e-02 1.00e-01  
## 2438 -1.30e-02 -5.32e-03 2.60e-03 -1.62e-03 -6.19e-03 6.98e-03 -3.61e-02  
## 2439 1.07e-05 1.66e-04 2.44e-04 -4.44e-07 2.55e-05 3.08e-04 7.39e-04  
## 2440 1.23e-02 4.14e-03 9.00e-04 -6.78e-03 2.26e-03 5.20e-03 -5.12e-02  
## 2441 1.10e-02 -9.28e-03 1.44e-02 1.50e-02 2.16e-02 -2.17e-03 4.82e-02  
## 2442 -1.97e-02 -3.24e-05 4.07e-03 8.52e-03 -1.02e-02 1.26e-02 -5.29e-02  
## 2443 2.12e-02 4.67e-03 -1.34e-02 2.62e-03 2.65e-02 -8.99e-03 6.64e-02  
## 2444 8.61e-03 8.38e-05 1.50e-03 -3.74e-03 -1.58e-03 1.72e-02 -4.28e-02  
## 2445 1.22e-02 -6.40e-03 -1.05e-02 -2.21e-02 -1.34e-02 2.08e-03 5.80e-02  
## 2446 7.84e-05 2.00e-04 -2.04e-04 -2.62e-04 -5.07e-05 6.30e-04 1.27e-03  
## 2447 1.49e-02 -1.57e-02 -3.15e-02 -9.42e-03 -2.81e-02 2.26e-02 -9.29e-02  
## 2448 -1.13e-02 -5.38e-03 5.56e-03 9.18e-03 -8.13e-03 -6.65e-04 -4.52e-02  
## 2449 1.96e-02 1.84e-02 -1.04e-02 3.63e-03 1.90e-02 -5.16e-03 8.16e-02  
## 2450 9.85e-05 -2.63e-04 -1.09e-03 -1.49e-03 -8.07e-04 3.30e-03 -6.89e-03  
## 2451 2.30e-02 1.47e-03 7.70e-03 -2.93e-03 -2.08e-02 2.32e-02 -6.84e-02  
## 2452 -2.75e-06 1.05e-04 5.89e-05 1.67e-04 1.34e-05 -1.02e-04 4.20e-04  
## 2453 2.06e-02 4.75e-03 -4.19e-03 7.83e-03 3.90e-03 6.24e-03 4.46e-02  
## 2454 -1.28e-03 2.39e-02 -6.40e-03 -1.67e-03 2.27e-03 5.88e-03 5.00e-02  
## 2455 -3.04e-03 -5.96e-03 -9.72e-03 -8.77e-03 -1.42e-02 8.31e-03 2.51e-02  
## 2456 -1.30e-05 -1.08e-03 -6.11e-04 -1.98e-03 -7.75e-04 1.34e-03 -4.60e-03  
## 2457 5.81e-04 3.29e-03 -1.55e-03 2.09e-03 -6.65e-04 4.22e-03 -9.00e-03  
## 2458 -2.35e-02 -6.60e-03 -9.77e-03 -1.90e-02 -6.83e-03 -1.03e-02 5.36e-02  
## 2459 -3.35e-02 6.81e-03 -8.87e-03 -3.75e-02 1.93e-02 -1.46e-02 9.54e-02  
## 2460 -1.04e-02 -8.29e-03 5.81e-03 -1.35e-03 -1.52e-02 4.37e-03 -3.47e-02  
## 2461 3.22e-02 -6.74e-03 1.38e-02 3.66e-02 1.64e-02 -2.51e-02 -8.68e-02  
## 2462 -3.35e-05 -9.26e-04 -1.20e-03 -4.08e-03 -2.29e-03 4.00e-03 -9.34e-03  
## 2463 -3.52e-03 2.72e-04 -4.84e-03 7.13e-03 3.75e-03 7.39e-03 4.06e-02  
## 2464 2.32e-02 -1.86e-03 1.04e-02 6.72e-04 1.76e-02 -1.72e-03 -8.35e-02  
## 2465 -4.59e-04 -7.76e-05 1.53e-03 2.71e-03 -1.26e-03 6.46e-05 7.15e-03  
## 2466 -1.07e-05 1.29e-04 -3.78e-04 -3.85e-06 -2.64e-05 -4.46e-04 1.11e-03  
## 2467 1.52e-02 2.62e-02 2.99e-03 4.13e-03 9.02e-03 -1.07e-02 -7.80e-02  
## 2468 -5.29e-03 -3.27e-03 -4.81e-03 -4.23e-04 -3.62e-04 2.41e-03 -2.15e-02  
## 2469 -1.96e-03 -6.00e-03 3.37e-03 3.47e-03 -7.74e-03 6.34e-03 1.92e-02  
## 2470 -7.43e-03 -1.75e-02 -2.87e-03 1.03e-02 -2.56e-03 -9.78e-04 5.24e-02  
## 2471 -5.74e-04 1.34e-03 1.13e-03 1.71e-03 1.57e-03 2.68e-04 4.87e-03  
## 2472 2.68e-03 -1.96e-03 4.01e-03 -7.29e-03 3.39e-03 -2.86e-04 -1.61e-02  
## 2473 -3.20e-02 5.25e-03 -1.41e-02 2.16e-02 3.27e-02 -2.49e-02 8.89e-02  
## 2474 3.25e-03 1.77e-03 1.26e-02 9.60e-03 -4.15e-03 1.12e-02 3.84e-02  
## 2475 1.61e-03 -1.09e-03 1.09e-03 9.01e-05 4.23e-04 1.07e-04 -4.25e-03  
## 2476 1.27e-02 2.50e-02 1.03e-03 2.23e-02 1.66e-02 -2.51e-02 -8.57e-02  
## 2477 -5.77e-05 3.82e-04 4.35e-04 -6.23e-04 -1.35e-04 -7.74e-04 2.50e-03  
## 2478 3.92e-03 4.87e-03 -1.29e-02 -2.68e-04 -1.11e-02 1.43e-02 5.13e-02  
## 2479 -3.65e-02 2.81e-02 9.09e-03 -1.51e-02 1.81e-03 6.24e-03 -1.05e-01  
## 2480 -1.78e-03 -6.38e-03 3.07e-03 3.48e-03 -5.96e-03 3.95e-03 1.65e-02  
## 2481 -1.60e-02 -8.04e-04 8.21e-03 -4.56e-03 -1.54e-02 8.30e-03 -5.09e-02  
## 2482 -1.48e-02 1.19e-02 -8.95e-03 7.98e-03 2.01e-02 -3.93e-03 6.34e-02  
## 2483 5.02e-04 -4.42e-03 3.67e-03 -5.50e-03 -9.50e-04 -1.87e-03 1.43e-02  
## 2484 -1.58e-02 3.60e-02 2.63e-02 -1.13e-02 1.42e-02 6.04e-03 -1.13e-01  
## 2485 4.04e-03 3.27e-03 2.53e-03 -2.55e-03 3.02e-03 6.36e-04 -1.06e-02  
## 2486 -1.20e-03 2.10e-02 1.53e-02 1.57e-02 1.83e-02 1.26e-03 5.42e-02  
## 2487 -1.02e-03 -5.65e-03 2.01e-03 -1.44e-03 -1.88e-03 -1.69e-03 9.41e-03  
## 2488 2.67e-02 1.92e-02 1.67e-02 -2.89e-03 1.42e-02 9.52e-03 -1.08e-01  
## 2489 -3.63e-02 8.90e-03 -8.64e-03 6.43e-03 2.39e-02 -3.23e-02 1.02e-01  
## 2490 -2.12e-02 1.19e-02 -3.21e-02 1.01e-02 -2.52e-02 -6.31e-03 -7.12e-02  
## 2491 -6.19e-04 -7.38e-04 -4.17e-03 -1.76e-03 -2.48e-03 -8.55e-04 9.93e-03  
## 2492 3.34e-05 3.08e-03 6.40e-04 -1.50e-03 -7.30e-04 1.28e-03 5.16e-03  
## 2493 -2.29e-03 -5.48e-03 4.22e-03 3.95e-03 -1.04e-02 8.01e-03 2.39e-02  
## 2494 1.70e-03 -7.20e-03 -6.30e-03 2.67e-03 -4.13e-03 -2.75e-03 2.98e-02  
## 2495 2.29e-03 -2.00e-04 1.95e-03 2.84e-03 -1.12e-04 -1.19e-03 9.72e-03  
## 2496 -2.44e-04 -1.70e-04 2.50e-04 1.33e-04 -8.90e-05 4.69e-05 9.44e-04  
## 2497 1.23e-04 4.45e-04 -2.01e-03 -3.41e-03 -4.45e-03 8.71e-03 -1.55e-02  
## 2498 5.47e-05 3.51e-04 -1.96e-04 1.94e-05 9.05e-06 4.31e-04 -9.84e-04  
## 2499 9.16e-05 3.43e-04 -2.66e-04 6.33e-04 9.39e-05 2.43e-04 -1.36e-03  
## 2500 -1.29e-02 -6.41e-03 1.24e-02 -7.35e-04 -2.49e-02 8.25e-03 -5.70e-02  
## 2501 -5.29e-04 -6.78e-04 -3.35e-03 -3.76e-03 -2.03e-03 -4.23e-05 8.01e-03  
## 2502 7.11e-05 -1.53e-04 -5.04e-04 5.54e-04 3.31e-05 1.15e-03 -2.89e-03  
## 2503 1.09e-05 -5.43e-05 2.33e-04 -1.58e-04 -6.67e-06 3.14e-04 -7.09e-04  
## 2504 8.86e-04 6.51e-03 -2.32e-03 -1.43e-04 6.17e-05 6.34e-03 1.84e-02  
## 2505 2.75e-05 -1.25e-04 6.38e-04 4.13e-04 2.77e-05 8.65e-04 -2.05e-03  
## 2506 -1.00e-02 -8.38e-03 7.06e-03 -1.19e-02 -1.45e-02 4.54e-03 -3.75e-02  
## 2507 -1.28e-02 1.09e-02 1.70e-02 -1.75e-02 1.45e-02 -3.49e-03 6.27e-02  
## 2508 -9.44e-03 1.43e-03 -6.21e-03 -8.07e-03 -3.92e-03 -2.30e-03 2.55e-02  
## 2509 2.06e-05 -1.38e-03 -9.23e-04 -3.14e-03 -1.26e-03 2.33e-03 -7.24e-03  
## 2510 2.11e-02 3.67e-04 3.32e-03 -6.20e-03 -4.73e-03 8.66e-03 -5.46e-02  
## 2511 1.34e-04 2.31e-03 -1.29e-03 -2.03e-03 -3.55e-04 2.54e-03 7.92e-03  
## 2512 7.82e-03 -1.71e-03 9.99e-04 -3.02e-03 -3.41e-03 6.70e-03 -3.28e-02  
## 2513 -1.07e-02 -1.05e-02 6.50e-03 2.40e-02 -1.18e-02 -2.00e-03 -4.96e-02  
## 2514 -1.88e-02 -6.13e-03 -3.31e-03 -2.98e-02 3.75e-03 -1.49e-02 7.40e-02  
## 2515 4.01e-02 7.93e-03 -1.06e-02 5.06e-03 2.67e-02 -3.57e-02 1.09e-01  
## 2516 -1.09e-03 1.53e-03 1.11e-03 1.80e-03 1.58e-04 -1.29e-03 5.29e-03  
## 2517 2.08e-02 6.08e-03 4.00e-03 6.07e-03 -2.02e-03 -5.36e-03 -6.02e-02  
## 2518 -5.08e-03 -3.71e-03 -4.42e-03 9.54e-03 -5.73e-03 -2.26e-03 2.41e-02  
## 2519 -8.24e-06 -1.33e-03 -8.15e-04 7.45e-04 -6.85e-04 1.32e-03 -5.04e-03  
## 2520 2.43e-04 4.73e-04 -2.47e-03 4.94e-04 -4.43e-03 8.93e-03 -2.01e-02  
## 2521 6.25e-04 -7.35e-04 6.70e-04 -4.95e-05 -4.35e-04 -9.88e-04 -3.61e-03  
## 2522 1.11e-02 2.02e-02 -1.78e-02 -1.37e-02 4.71e-02 -3.93e-02 -9.20e-02  
## 2523 1.78e-02 -3.28e-03 5.29e-03 -2.56e-03 -9.63e-03 6.38e-03 -3.99e-02  
## 2524 -2.06e-02 -3.85e-03 5.67e-03 2.41e-02 -1.43e-02 2.89e-03 -5.13e-02  
## 2525 5.50e-02 -3.74e-05 -3.26e-02 1.10e-02 1.92e-02 7.92e-03 -1.50e-01  
## 2526 -1.29e-02 -1.02e-02 -8.72e-03 5.31e-03 2.50e-02 -3.92e-02 8.81e-02  
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## 2528 -2.30e-03 5.18e-03 -4.54e-03 -1.63e-02 5.97e-03 3.58e-04 5.80e-02  
## 2529 -1.50e-03 1.68e-03 2.26e-03 -8.16e-05 2.14e-03 -1.27e-03 1.03e-02  
## 2530 -1.34e-03 -1.38e-03 -1.30e-03 9.17e-05 -8.27e-05 2.16e-03 8.56e-03  
## 2531 8.12e-04 -8.69e-04 8.76e-04 9.70e-04 2.20e-03 -7.50e-04 -4.86e-03  
## 2532 7.75e-03 -4.08e-03 -2.18e-02 5.57e-02 3.57e-02 -9.15e-03 -1.10e-01  
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## 2536 9.67e-06 3.26e-04 -2.52e-04 6.51e-06 -1.44e-04 5.21e-04 1.39e-03  
## 2537 -9.73e-04 1.01e-03 -1.72e-03 1.87e-04 4.38e-04 -9.01e-04 8.27e-03  
## 2538 -8.58e-03 1.52e-03 -6.56e-03 1.11e-02 -2.11e-03 -1.08e-03 3.70e-02  
## 2539 1.49e-02 5.49e-03 -2.32e-02 -1.67e-02 -1.60e-02 2.21e-02 -6.54e-02  
## 2540 -1.61e-02 1.06e-02 1.42e-02 3.39e-03 -7.86e-03 -1.41e-02 6.14e-02  
## 2541 -2.36e-03 1.96e-03 1.69e-03 1.63e-03 9.06e-04 3.13e-04 -7.48e-03  
## 2542 -1.37e-02 -1.26e-02 -6.83e-03 -5.65e-03 -9.87e-03 -4.66e-03 3.92e-02  
## 2543 -3.18e-04 -4.40e-04 -2.86e-04 -5.85e-04 -5.56e-04 3.99e-04 -1.74e-03  
## 2544 1.83e-02 1.26e-02 -1.04e-02 -1.71e-02 2.07e-02 3.21e-03 7.11e-02  
## 2545 -2.47e-03 -4.85e-03 4.20e-03 3.34e-03 -1.04e-02 8.57e-03 2.10e-02  
## 2546 -3.48e-05 -1.03e-03 -9.84e-04 -3.28e-03 -1.62e-03 2.85e-03 -7.45e-03  
## 2547 -2.06e-03 -5.70e-03 3.55e-03 -9.99e-03 -7.85e-03 4.81e-03 1.74e-02  
## 2548 -4.61e-04 -1.78e-03 2.11e-03 1.41e-03 -1.14e-03 -2.49e-03 9.45e-03  
## 2549 -3.54e-03 -4.60e-03 5.95e-03 -3.24e-03 -1.61e-02 1.13e-02 3.20e-02  
## 2550 5.56e-03 -4.57e-03 -1.12e-02 1.34e-02 -7.07e-03 2.69e-03 4.45e-02  
## 2551 9.01e-03 -2.71e-03 -1.15e-02 7.09e-04 -1.08e-02 -3.36e-04 5.14e-02  
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## 2553 3.59e-03 2.44e-03 1.32e-02 9.88e-03 -3.33e-03 1.09e-02 3.96e-02  
## 2554 -3.89e-04 -7.34e-04 1.21e-03 2.35e-03 -3.71e-04 -1.17e-03 5.79e-03  
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## 2557 2.96e-03 1.56e-03 -9.87e-04 7.99e-05 4.03e-04 1.78e-03 5.63e-03  
## 2558 -8.44e-04 9.70e-04 1.91e-03 -1.51e-03 1.41e-03 -5.14e-04 7.82e-03  
## 2559 1.00e-02 6.60e-03 -2.70e-02 -1.90e-02 -6.17e-03 1.78e-02 -6.37e-02  
## 2560 2.22e-02 -1.50e-02 1.56e-02 1.26e-02 1.82e-02 1.93e-02 -8.90e-02  
## 2561 -1.05e-04 1.09e-02 -7.42e-03 -8.97e-03 -6.04e-03 4.92e-03 2.28e-02  
## 2562 3.05e-03 -1.53e-03 -5.01e-03 4.23e-03 4.28e-03 -1.65e-03 -1.56e-02  
## 2563 -4.61e-02 3.55e-02 7.35e-03 -1.98e-02 4.15e-03 -1.51e-02 -1.03e-01  
## 2564 6.06e-05 2.91e-03 4.64e-04 1.18e-03 -4.69e-04 1.26e-03 5.22e-03  
## 2565 7.08e-05 -2.11e-04 -1.45e-03 -4.57e-05 -7.30e-04 3.90e-03 -8.45e-03  
## 2566 1.17e-02 7.68e-03 3.43e-03 7.25e-03 -2.36e-03 1.33e-03 -5.08e-02  
## 2567 1.31e-03 1.60e-02 -6.43e-03 6.12e-03 1.18e-02 3.03e-03 3.86e-02  
## 2568 1.09e-04 -2.36e-04 -1.46e-03 1.91e-03 -6.33e-04 3.86e-03 -8.56e-03  
## 2569 3.86e-02 -5.19e-03 1.55e-02 -1.64e-02 1.55e-02 -7.94e-03 -6.96e-02  
## 2570 1.13e-02 8.62e-03 8.97e-04 2.07e-02 4.73e-03 -6.48e-03 -5.89e-02  
## 2571 -1.28e-03 -5.57e-03 2.18e-03 -4.54e-03 -2.76e-03 -8.94e-04 1.00e-02  
## 2572 -1.81e-03 -1.60e-02 -2.27e-03 -9.31e-03 -9.46e-04 6.25e-03 3.60e-02  
## 2573 7.67e-03 -3.32e-03 2.12e-03 -1.20e-03 -7.07e-03 1.14e-02 -2.82e-02  
## 2574 9.16e-03 2.28e-02 6.00e-03 -9.63e-03 -7.32e-03 1.40e-02 -8.52e-02  
## 2575 2.31e-05 -1.27e-03 -6.90e-04 6.52e-04 -3.72e-04 1.02e-03 -4.13e-03  
## 2576 -1.30e-02 -1.70e-02 -3.14e-03 9.46e-03 6.39e-03 -9.43e-03 9.55e-02  
## 2577 -2.17e-03 -5.63e-03 3.69e-03 -6.37e-03 -8.17e-03 5.32e-03 1.69e-02  
## 2578 -1.82e-02 -6.71e-03 -6.92e-03 7.17e-03 1.63e-02 -4.19e-02 1.03e-01  
## 2579 -2.92e-03 -1.75e-03 -1.94e-03 2.01e-03 4.89e-04 -2.02e-05 -9.71e-03  
## 2580 2.58e-03 -6.31e-03 -2.36e-03 -5.02e-04 -3.46e-03 -9.20e-04 1.59e-02  
## 2581 7.54e-06 3.03e-04 1.00e-04 2.61e-04 2.34e-05 -4.50e-05 6.94e-04  
## 2582 -8.67e-04 -5.12e-03 1.46e-03 2.62e-03 -8.05e-04 -2.08e-03 8.11e-03  
## 2583 -2.83e-04 -1.95e-04 7.27e-04 -1.19e-03 -7.43e-04 3.61e-04 4.15e-03  
## 2584 3.19e-03 -4.47e-03 1.00e-02 1.81e-04 -2.36e-03 4.14e-03 3.20e-02  
## 2585 -8.75e-03 -8.73e-03 4.48e-03 -1.21e-03 -9.61e-03 3.11e-03 -3.59e-02  
## 2586 -2.09e-02 -8.67e-03 2.69e-02 -2.30e-02 9.78e-03 -1.07e-02 7.77e-02  
## 2587 -7.59e-03 -1.81e-02 -2.22e-03 9.53e-03 -2.15e-03 8.57e-03 4.95e-02  
## 2588 -2.17e-03 -6.32e-03 3.78e-03 3.95e-03 -7.75e-03 4.61e-03 1.71e-02  
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## 2593 -7.97e-04 -1.73e-03 -2.22e-03 4.12e-03 -3.18e-03 7.00e-03 1.78e-02  
## 2594 2.19e-02 4.69e-03 -1.31e-02 3.26e-03 2.65e-02 -7.83e-03 6.71e-02  
## 2595 8.07e-03 -2.38e-03 6.70e-03 -5.93e-04 3.13e-03 9.62e-04 -2.45e-02  
## 2596 1.79e-02 9.29e-03 2.69e-02 -6.25e-05 3.45e-02 -6.73e-04 5.81e-02  
## 2597 -3.15e-04 6.89e-04 -5.09e-04 -6.11e-04 2.15e-04 1.10e-03 3.32e-03  
## 2598 2.08e-04 -2.98e-03 -2.27e-03 5.04e-03 -1.64e-03 7.84e-03 2.16e-02  
## 2599 7.85e-06 3.81e-05 -2.69e-05 3.90e-05 -1.72e-05 8.12e-05 1.69e-04  
## 2600 -9.99e-03 -1.51e-02 3.25e-02 -2.56e-02 8.76e-03 -8.37e-03 7.04e-02  
## 2601 2.61e-04 1.12e-02 -7.39e-03 3.81e-03 -3.53e-03 4.56e-03 1.79e-02  
## 2602 -1.44e-02 -1.38e-02 2.59e-02 6.67e-03 8.61e-03 -1.39e-02 6.42e-02  
## 2603 -1.06e-02 -1.05e-02 6.65e-03 -2.51e-04 -1.36e-02 -1.38e-04 -4.14e-02  
## 2604 -1.36e-02 1.50e-02 2.84e-02 2.76e-04 6.21e-03 -1.71e-02 -1.20e-01  
## 2605 9.11e-03 3.71e-02 4.60e-03 -1.90e-02 1.37e-02 -1.56e-02 -8.83e-02  
## 2606 -2.05e-02 3.87e-02 -3.09e-02 1.28e-02 -1.32e-02 4.72e-03 -1.35e-01  
## 2607 -1.52e-02 -5.59e-03 9.78e-03 -2.56e-03 -2.15e-02 -1.45e-03 -5.14e-02  
## 2608 -1.90e-02 -1.33e-02 1.82e-02 -8.42e-03 -1.08e-02 -1.33e-02 5.96e-02  
## 2609 -9.24e-03 -8.58e-03 6.32e-03 -1.30e-02 -1.55e-02 1.19e-02 -4.56e-02  
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## 2611 2.46e-03 -1.85e-03 3.19e-03 3.22e-03 6.04e-03 -2.90e-03 -1.38e-02  
## 2612 -5.34e-03 -1.20e-04 2.19e-02 4.32e-02 1.89e-02 -2.51e-02 -9.19e-02  
## 2613 1.02e-02 1.44e-02 3.66e-02 -1.49e-02 5.33e-02 -3.79e-02 -9.18e-02  
## 2614 -3.39e-04 -1.49e-04 9.49e-04 5.34e-05 -1.02e-03 5.30e-04 4.83e-03  
## 2615 9.77e-03 1.73e-02 2.30e-03 -9.84e-03 3.54e-03 1.62e-02 -6.98e-02  
## 2616 7.68e-03 -1.03e-02 -8.13e-03 1.86e-03 -7.79e-03 -6.22e-03 3.60e-02  
## 2617 1.45e-03 -1.35e-03 1.91e-03 -1.41e-04 2.07e-03 -4.29e-04 -9.17e-03  
## 2618 5.49e-03 1.47e-02 -1.03e-02 4.97e-03 -6.21e-03 5.22e-03 5.34e-02  
## 2619 1.38e-02 1.15e-03 2.41e-02 -1.55e-02 3.07e-02 -1.30e-02 8.18e-02  
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## 2627 6.36e-03 -1.35e-03 1.77e-03 -2.28e-03 -2.83e-03 1.33e-02 -3.37e-02  
## 2628 -4.05e-03 5.02e-03 -3.02e-03 5.08e-03 -3.85e-04 -3.05e-04 1.47e-02  
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## 2630 -2.13e-02 -5.87e-04 7.05e-03 -1.56e-03 -1.98e-02 1.55e-02 -6.25e-02  
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## 2632 1.03e-04 2.23e-03 -1.14e-03 1.37e-04 -1.62e-03 3.38e-03 8.53e-03  
## 2633 1.16e-03 1.35e-03 6.46e-04 -3.67e-04 1.20e-03 -2.14e-04 4.45e-03  
## 2634 4.71e-03 3.25e-03 1.18e-02 3.21e-02 -6.79e-03 -1.02e-02 -1.05e-01  
## 2635 -2.39e-03 1.29e-02 2.31e-02 -6.60e-03 2.00e-02 1.65e-03 -8.91e-02  
## 2636 -1.74e-02 -1.23e-02 -7.14e-03 -2.15e-02 1.17e-02 -1.56e-02 6.65e-02  
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## 2638 2.07e-02 2.54e-02 1.06e-02 -1.49e-02 -1.32e-02 -8.37e-03 -9.36e-02  
## 2639 2.27e-02 8.27e-03 6.70e-03 -8.29e-03 -8.91e-03 -1.68e-03 -5.75e-02  
## 2640 -1.36e-02 8.29e-03 2.05e-02 1.81e-02 1.37e-02 -5.43e-03 -1.03e-01  
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## 2642 -7.54e-04 1.34e-03 -9.63e-04 -1.74e-04 -7.22e-04 -3.28e-05 4.56e-03  
## 2643 -3.20e-03 -4.85e-03 -1.16e-02 4.93e-03 -1.66e-02 1.16e-02 2.90e-02  
## 2644 2.74e-03 -9.67e-03 -8.08e-03 3.98e-03 -7.81e-03 -2.92e-03 3.45e-02  
## 2645 3.63e-05 -4.28e-04 -7.27e-04 1.14e-04 -2.50e-04 1.73e-03 -4.15e-03  
## 2646 1.68e-02 -4.40e-03 -1.23e-02 -1.05e-02 1.55e-02 -1.36e-02 7.11e-02  
## 2647 1.12e-02 4.54e-03 4.88e-03 -4.52e-03 -1.17e-02 3.14e-03 -4.89e-02  
## 2648 -3.00e-02 1.93e-03 1.74e-02 1.19e-02 -5.86e-03 5.06e-03 5.58e-02  
## 2649 3.97e-03 -1.50e-03 -5.34e-03 1.28e-04 8.39e-04 -3.46e-03 -2.25e-02  
## 2650 8.61e-03 -3.83e-03 3.47e-03 -1.04e-03 -1.19e-02 1.18e-02 -3.81e-02  
## 2651 -1.79e-02 -1.78e-03 -2.22e-02 -1.42e-02 -2.07e-02 1.88e-02 -6.62e-02  
## 2652 -7.81e-03 2.21e-04 5.22e-03 2.37e-03 6.27e-04 -6.54e-04 1.93e-02  
## 2653 -2.46e-02 -9.92e-03 -9.22e-03 4.81e-03 -1.20e-02 -2.58e-03 4.86e-02  
## 2654 6.70e-05 3.13e-03 5.05e-04 1.27e-03 -6.11e-04 1.49e-03 5.65e-03  
## 2655 7.46e-04 -7.47e-04 -1.29e-03 8.42e-05 7.49e-04 -1.94e-04 -4.53e-03  
## 2656 1.81e-03 -3.81e-03 -1.02e-02 -8.21e-03 -3.91e-03 3.77e-03 3.82e-02  
## 2657 -1.07e-03 -7.24e-04 1.04e-03 -1.70e-03 -1.09e-03 1.13e-03 -4.48e-03  
## 2658 1.73e-02 6.17e-05 1.13e-02 1.35e-03 1.59e-02 -3.29e-03 -7.00e-02  
## 2659 -2.13e-03 -4.90e-04 -3.48e-03 -7.04e-04 -3.64e-03 6.75e-03 2.57e-02  
## 2660 1.05e-02 -2.05e-04 -3.36e-03 -6.00e-04 2.48e-03 4.46e-03 2.40e-02  
## 2661 -1.37e-02 7.48e-03 -7.19e-03 6.15e-03 1.04e-02 -8.12e-03 5.42e-02  
## 2662 1.41e-03 -1.30e-03 1.88e-03 1.24e-04 1.46e-03 -3.29e-04 -9.33e-03  
## 2663 -3.34e-04 -1.28e-03 -2.51e-03 4.41e-05 1.19e-04 -3.32e-03 -7.31e-03  
## 2664 1.12e-02 2.54e-02 -1.69e-02 -1.36e-02 4.39e-02 -4.13e-02 -1.07e-01  
## 2665 2.64e-02 4.18e-03 8.15e-03 -6.24e-03 -1.33e-02 2.04e-02 -6.94e-02  
## 2666 1.46e-02 -7.84e-04 -5.02e-03 1.24e-02 6.18e-03 4.27e-03 3.39e-02  
## 2667 -3.18e-03 -1.43e-02 1.32e-02 5.07e-03 -1.36e-03 7.48e-03 3.37e-02  
## 2668 -4.16e-04 8.16e-06 1.17e-03 -3.40e-03 -1.45e-03 5.77e-04 5.79e-03  
## 2669 1.38e-02 6.82e-03 5.05e-03 2.32e-02 -6.13e-03 1.06e-02 -6.27e-02  
## 2670 -3.33e-03 -5.25e-03 6.38e-03 4.84e-03 -1.55e-02 1.05e-02 3.33e-02  
## 2671 -3.15e-05 -8.08e-04 -3.26e-04 -1.01e-03 -3.58e-04 4.83e-04 -2.47e-03  
## 2672 -4.40e-04 -5.67e-05 1.58e-03 2.77e-03 -1.25e-03 9.61e-05 7.30e-03  
## 2673 -1.35e-02 -7.96e-03 8.84e-03 1.25e-02 -1.98e-02 -1.15e-03 -4.23e-02  
## 2674 -4.56e-04 -1.45e-04 1.30e-03 2.33e-03 -1.09e-03 -8.55e-05 6.25e-03  
## 2675 -1.10e-02 -7.24e-03 7.08e-03 -1.88e-03 -1.40e-02 3.66e-03 -4.36e-02  
## 2676 5.11e-03 -4.80e-04 -7.62e-03 7.02e-03 4.49e-03 -2.25e-03 -2.73e-02  
## 2677 5.50e-04 5.62e-04 3.37e-04 -1.09e-04 6.02e-04 -3.19e-04 2.17e-03  
## 2678 -5.00e-03 -4.11e-03 -2.41e-02 -1.82e-02 1.08e-02 -1.20e-02 -7.53e-02  
## 2679 -1.16e-02 -3.93e-03 1.04e-02 -1.67e-02 -1.85e-02 1.03e-02 -5.65e-02  
## 2680 -1.14e-03 -1.74e-03 -1.38e-03 -5.22e-03 -2.52e-03 9.02e-03 2.21e-02  
## 2681 -4.45e-05 -2.26e-05 -2.57e-05 1.67e-05 -8.79e-06 -3.00e-05 -8.88e-05  
## 2682 -1.49e-02 -1.08e-03 6.63e-03 -4.92e-03 -9.08e-03 5.96e-03 -5.38e-02  
## 2683 -1.27e-02 -1.49e-02 1.93e-02 4.97e-03 1.77e-02 -6.79e-03 5.69e-02  
## 2684 -1.01e-02 -7.13e-03 7.27e-03 -2.49e-03 -1.38e-02 1.09e-02 -5.37e-02  
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## 2686 -1.82e-02 -3.69e-03 4.76e-03 9.85e-03 -1.23e-02 4.79e-03 -5.48e-02  
## 2687 -2.31e-02 1.76e-02 -1.27e-02 1.07e-03 -4.66e-03 4.26e-04 4.90e-02  
## 2688 1.53e-03 -5.28e-03 -9.26e-03 2.30e-03 -4.70e-03 1.44e-03 3.12e-02  
## 2689 3.66e-04 -1.04e-04 -2.41e-03 4.04e-03 -3.09e-03 8.17e-03 -1.69e-02  
## 2690 -1.84e-03 -5.45e-03 2.91e-03 -5.60e-03 -7.03e-03 5.35e-03 1.63e-02  
## 2691 -2.17e-03 -7.22e-04 -1.27e-03 -1.76e-04 -1.60e-03 -4.79e-04 5.40e-03  
## 2692 -2.67e-03 -1.05e-03 -1.66e-03 -4.24e-03 -3.73e-03 2.99e-03 -1.15e-02  
## 2693 4.23e-03 -1.36e-03 -6.42e-03 4.94e-03 7.78e-03 -2.80e-03 -2.08e-02  
## 2694 -2.46e-03 -4.80e-03 4.13e-03 3.27e-03 -1.04e-02 8.66e-03 2.08e-02  
## 2695 2.67e-02 -1.21e-02 -2.90e-03 9.47e-03 5.63e-03 -9.86e-03 7.53e-02  
## 2696 5.63e-03 -9.15e-03 1.21e-02 3.63e-03 4.58e-03 1.54e-03 4.10e-02  
## 2697 4.77e-04 2.65e-03 -1.18e-03 4.34e-04 -4.44e-04 2.94e-03 -6.60e-03  
## 2698 2.84e-03 2.65e-03 1.28e-02 -1.94e-03 -5.77e-03 1.24e-02 3.76e-02  
## 2699 -4.12e-03 -8.46e-03 1.59e-02 -1.68e-02 1.73e-02 -1.25e-02 -6.65e-02  
## 2700 -4.30e-03 -9.94e-04 3.22e-03 -6.22e-04 -2.37e-04 6.20e-04 1.30e-02  
## 2701 5.18e-05 -2.19e-04 -1.58e-03 2.00e-03 -6.88e-04 3.94e-03 -9.03e-03  
## 2702 -1.81e-02 -3.77e-03 -2.14e-02 -1.28e-03 -2.90e-02 9.53e-03 -6.53e-02  
## 2703 9.04e-03 4.97e-03 5.90e-03 -2.16e-03 -1.49e-02 2.63e-02 -5.52e-02  
## 2704 1.07e-02 -1.40e-04 2.78e-03 -3.35e-03 -5.00e-03 1.44e-02 -4.67e-02  
## 2705 -1.54e-02 -1.63e-02 -6.27e-03 7.52e-03 -1.62e-02 -9.89e-03 6.74e-02  
## 2706 -4.61e-04 2.90e-04 1.69e-03 -2.35e-03 -2.10e-03 1.03e-03 8.49e-03  
## 2707 9.28e-03 -2.01e-02 8.64e-03 2.70e-02 -1.96e-02 -4.95e-03 -7.50e-02  
## 2708 5.16e-03 -1.49e-03 1.05e-02 9.01e-03 1.03e-04 9.92e-03 4.65e-02  
## 2709 -3.24e-03 -4.42e-03 -1.18e-02 4.57e-03 -1.66e-02 1.18e-02 2.93e-02  
## 2710 -3.28e-03 1.22e-02 -4.92e-03 -7.39e-03 6.43e-03 5.37e-03 3.30e-02  
## 2711 -2.89e-03 -1.14e-02 -6.40e-03 -8.54e-03 -8.74e-03 -3.76e-03 2.35e-02  
## 2712 3.36e-03 -4.12e-03 1.14e-02 1.13e-02 -1.70e-03 5.50e-03 3.86e-02  
## 2713 3.52e-03 -9.52e-04 -6.85e-03 5.24e-03 6.42e-03 -4.64e-03 -2.09e-02  
## 2714 -1.60e-03 -1.27e-03 1.87e-03 1.42e-03 -1.40e-03 2.17e-03 -7.59e-03  
## 2715 -8.97e-04 9.04e-04 -8.41e-04 -1.12e-04 -6.89e-04 1.62e-04 4.48e-03  
## 2716 -6.31e-03 3.93e-03 -2.73e-02 -2.66e-03 9.92e-03 -1.01e-02 -7.75e-02  
## 2717 1.80e-02 -5.04e-03 5.08e-03 -1.93e-03 -1.04e-02 4.11e-03 -4.57e-02  
## 2718 -1.91e-06 -3.62e-04 -9.63e-05 -2.91e-04 -2.10e-05 9.64e-06 -8.31e-04  
## 2719 -1.82e-03 -6.45e-03 3.24e-03 -4.45e-03 -5.36e-03 1.65e-03 1.35e-02  
## 2720 5.86e-04 3.33e-03 -1.50e-03 2.64e-03 -4.70e-04 3.51e-03 -8.56e-03  
## 2721 8.14e-03 4.14e-03 1.50e-02 -2.56e-03 -3.86e-03 2.39e-02 5.54e-02  
## 2722 2.21e-05 7.44e-04 1.71e-04 4.50e-04 2.98e-05 1.30e-04 1.63e-03  
## 2723 9.18e-03 -2.58e-03 2.21e-03 1.61e-02 -6.36e-03 1.11e-02 -3.63e-02  
## 2724 -8.96e-03 5.24e-03 1.13e-02 2.96e-03 2.17e-04 -7.86e-03 4.53e-02  
## 2725 1.44e-02 -5.28e-03 4.12e-03 -1.53e-03 -1.09e-02 8.70e-03 -3.46e-02  
## 2726 -3.94e-03 2.86e-03 -2.92e-03 -1.26e-02 2.24e-03 4.33e-03 4.03e-02  
## 2727 -3.21e-03 -1.28e-02 1.04e-02 -1.03e-03 -3.64e-03 4.85e-03 2.71e-02  
## 2728 -1.98e-03 -5.29e-03 3.41e-03 -6.78e-03 -8.17e-03 7.36e-03 1.99e-02  
## 2729 1.37e-02 4.57e-03 -1.28e-02 1.50e-02 -1.39e-02 6.73e-03 6.93e-02  
## 2730 -2.22e-03 -6.20e-03 3.87e-03 3.85e-03 -7.71e-03 4.63e-03 1.75e-02  
## 2731 1.34e-02 -1.16e-02 -4.63e-03 -1.60e-02 2.55e-03 9.83e-03 5.59e-02  
## 2732 -1.42e-02 -1.50e-02 2.11e-02 9.34e-03 1.11e-03 6.84e-03 5.33e-02  
## 2733 1.84e-04 -2.77e-03 -2.79e-03 -7.90e-04 -2.53e-03 1.08e-02 2.72e-02  
## 2734 -1.53e-03 2.49e-03 1.77e-03 -2.29e-03 -2.84e-04 1.17e-04 8.22e-03  
## 2735 -7.58e-04 -1.99e-03 1.18e-02 -7.18e-03 1.55e-03 1.10e-02 3.11e-02  
## 2736 -6.20e-03 -5.36e-03 -2.41e-02 -1.80e-02 8.42e-03 -2.21e-02 -7.37e-02  
## 2737 8.82e-03 -4.24e-03 2.36e-03 -1.01e-03 -6.83e-03 8.68e-03 -3.52e-02  
## 2738 -5.05e-03 -3.41e-03 -5.13e-03 5.40e-03 3.40e-04 2.95e-03 -2.41e-02  
## 2739 9.21e-05 5.76e-04 -4.29e-04 5.37e-04 2.50e-04 6.17e-04 2.40e-03  
## 2740 7.41e-04 1.79e-02 -6.24e-03 -2.27e-03 1.03e-02 1.76e-03 4.02e-02  
## 2741 -1.10e-02 -5.99e-03 2.13e-03 -1.20e-03 -6.14e-03 7.30e-03 -3.34e-02  
## 2742 2.81e-05 4.61e-04 1.29e-04 3.57e-04 4.51e-05 3.38e-05 1.01e-03  
## 2743 -3.15e-03 -5.81e-03 -1.06e-02 4.81e-03 -1.44e-02 8.61e-03 2.55e-02  
## 2744 1.99e-02 -2.55e-03 1.03e-02 1.68e-03 1.46e-02 -1.05e-02 -6.83e-02  
## 2745 -8.87e-03 2.56e-03 1.21e-02 -1.27e-02 -7.36e-03 1.19e-03 3.97e-02  
## 2746 -1.23e-03 7.31e-03 -1.01e-02 3.91e-03 -1.01e-02 9.47e-03 2.33e-02  
## 2747 7.92e-03 -4.10e-03 -1.20e-02 1.42e-02 -5.11e-04 1.18e-02 5.61e-02  
## 2748 -1.69e-02 4.98e-02 -3.10e-02 4.59e-02 -1.32e-02 4.06e-03 -1.48e-01  
## 2749 8.30e-03 -2.58e-03 -1.62e-02 -9.59e-03 -1.30e-02 1.43e-02 -3.77e-02  
## 2750 7.53e-03 -5.95e-03 8.87e-03 8.40e-03 1.60e-03 8.06e-04 4.69e-02  
## 2751 -9.95e-04 -5.37e-03 1.72e-03 8.49e-04 -1.25e-03 -2.42e-03 8.77e-03  
## 2752 9.31e-03 1.92e-02 -1.85e-02 -1.47e-02 4.31e-02 -3.79e-02 -8.91e-02  
## 2753 2.80e-03 -1.10e-03 2.28e-03 -1.66e-03 1.82e-03 1.85e-03 8.31e-03  
## 2754 -2.35e-03 -5.33e-03 4.11e-03 3.53e-03 -9.47e-03 7.29e-03 1.97e-02  
## 2755 -2.42e-03 -4.36e-03 3.97e-03 -1.32e-02 -1.09e-02 9.08e-03 2.26e-02  
## 2756 -8.32e-04 9.97e-04 -5.74e-03 -3.48e-03 -4.33e-03 1.51e-03 1.20e-02  
## 2757 3.03e-02 -4.11e-03 1.11e-02 -5.04e-04 1.61e-02 -1.67e-02 -7.89e-02  
## 2758 -7.72e-04 2.54e-02 1.57e-02 -1.67e-02 2.00e-02 -6.33e-03 5.40e-02  
## 2759 3.36e-03 -6.12e-03 4.32e-03 2.46e-03 4.35e-03 1.15e-03 1.53e-02  
## 2760 8.12e-04 -5.69e-03 2.96e-03 1.34e-03 -1.90e-03 -3.41e-03 1.39e-02  
## 2761 1.78e-02 5.12e-03 -1.14e-02 2.92e-03 2.55e-02 2.38e-03 5.11e-02  
## 2762 -4.51e-04 -2.52e-03 -2.06e-03 3.67e-03 -2.05e-03 4.11e-03 1.44e-02  
## 2763 1.32e-02 -1.59e-02 -5.46e-03 -1.16e-02 5.79e-03 3.16e-03 4.91e-02  
## 2764 -6.60e-04 2.49e-03 2.21e-03 3.06e-03 -3.89e-03 3.97e-03 1.20e-02  
## 2765 1.28e-02 3.91e-02 -2.27e-02 6.13e-02 4.66e-02 -2.55e-02 -1.08e-01  
## 2766 1.17e-02 3.90e-03 4.37e-03 -3.86e-03 -7.47e-03 1.01e-02 -4.56e-02  
## 2767 -2.22e-02 -9.02e-03 -1.19e-02 1.25e-02 -8.92e-03 -5.45e-03 5.12e-02  
## 2768 -6.42e-03 -2.41e-03 -5.04e-03 -1.00e-04 8.72e-04 5.54e-04 -2.01e-02  
## 2769 8.04e-03 -7.83e-03 1.17e-02 2.43e-03 6.42e-04 3.48e-03 4.78e-02  
## 2770 3.49e-03 -3.74e-03 1.04e-02 8.76e-03 -1.15e-03 3.33e-03 3.51e-02  
## 2771 -1.58e-02 3.98e-03 2.94e-02 -2.53e-02 2.01e-02 6.40e-03 -1.44e-01  
## 2772 -1.29e-02 -4.87e-03 7.32e-03 1.07e-02 -1.35e-02 4.50e-03 -6.41e-02  
## 2773 -2.23e-03 -5.86e-03 3.79e-03 -1.57e-03 -8.11e-03 5.15e-03 1.65e-02  
## 2774 1.79e-02 3.32e-02 -1.22e-02 1.95e-02 3.03e-02 -5.37e-03 6.53e-02  
## 2775 -1.67e-02 -3.80e-03 4.35e-03 -2.07e-03 -1.12e-02 7.76e-03 -3.89e-02  
## 2776 -3.55e-02 -3.33e-03 -3.03e-02 -4.04e-02 2.36e-03 3.60e-02 -1.37e-01  
## 2777 -2.88e-02 -1.85e-03 -1.03e-02 3.10e-04 -1.37e-02 2.96e-04 8.06e-02  
## 2778 -3.21e-03 5.10e-03 -3.98e-03 -4.78e-03 -3.09e-03 -1.21e-03 1.65e-02  
## 2779 -1.80e-02 -1.29e-02 -5.95e-03 8.27e-03 2.55e-03 -1.45e-03 5.24e-02  
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## 2781 -2.32e-03 2.96e-02 1.89e-02 6.44e-03 1.87e-02 -1.52e-02 6.04e-02  
## 2782 1.30e-03 2.56e-03 3.09e-03 4.39e-03 1.73e-03 -6.03e-04 1.55e-02  
## 2783 -9.26e-06 6.11e-06 -1.29e-03 -4.02e-03 -1.65e-03 4.43e-03 -9.23e-03  
## 2784 3.73e-03 -6.12e-04 -2.12e-03 -2.33e-05 2.46e-03 2.74e-03 1.41e-02  
## 2785 3.22e-02 -8.10e-03 -7.42e-03 -9.89e-03 9.58e-03 -9.93e-03 7.03e-02  
## 2786 6.92e-03 -4.86e-02 1.73e-02 -2.09e-02 -1.57e-02 -1.06e-02 -1.16e-01  
## 2787 -1.05e-03 1.59e-03 -1.26e-03 -1.39e-03 -9.91e-04 4.21e-04 5.71e-03  
## 2788 1.45e-03 -2.64e-03 1.08e-02 9.50e-04 -3.76e-03 2.37e-03 3.25e-02  
## 2789 1.51e-02 7.25e-03 -1.41e-02 2.64e-03 2.53e-02 -1.58e-02 7.59e-02  
## 2790 7.49e-04 -5.41e-03 6.31e-03 1.85e-03 -7.33e-04 -2.18e-03 2.16e-02  
## 2791 -9.84e-03 -7.05e-03 4.93e-03 -2.54e-03 -9.26e-03 2.23e-03 -3.92e-02  
## 2792 1.72e-02 -1.50e-02 -4.11e-03 -1.16e-02 6.62e-05 8.05e-03 4.78e-02  
## 2793 6.38e-03 -1.42e-03 2.69e-03 -1.65e-03 -7.55e-03 1.57e-02 -3.28e-02  
## 2794 8.38e-03 1.18e-03 5.09e-03 -2.39e-03 -1.11e-02 1.41e-02 -4.35e-02  
## 2795 5.04e-04 2.06e-03 -1.07e-03 2.23e-03 -9.42e-05 2.13e-03 -6.76e-03  
## 2796 -1.52e-03 -6.77e-03 2.79e-03 3.69e-03 -4.39e-03 1.83e-03 1.41e-02  
## 2797 -1.41e-03 -1.95e-03 -2.14e-03 -6.02e-04 -6.52e-04 9.15e-03 2.63e-02  
## 2798 7.92e-03 1.63e-02 3.23e-03 -9.03e-03 1.84e-03 1.11e-02 -6.56e-02  
## 2799 -4.23e-05 1.05e-03 -1.23e-03 -1.18e-03 -2.30e-04 -4.13e-04 3.01e-03  
## 2800 -1.96e-02 -4.24e-02 -2.50e-02 4.66e-02 -1.46e-03 -4.27e-02 -1.26e-01  
## 2801 -3.75e-03 -4.77e-03 -4.57e-03 5.11e-03 -3.36e-03 2.58e-03 -2.20e-02  
## 2802 -2.30e-03 3.62e-03 -2.42e-03 2.30e-03 -2.88e-03 -3.22e-04 1.12e-02  
## 2803 -6.50e-04 2.25e-03 1.62e-03 2.18e-03 -3.41e-03 4.44e-03 1.25e-02  
## 2804 -1.96e-02 -4.28e-03 3.12e-02 1.77e-03 3.88e-02 -3.57e-02 9.97e-02  
## 2805 6.96e-03 -9.84e-03 1.38e-02 4.55e-03 6.13e-04 -5.52e-03 5.19e-02  
## 2806 -2.93e-04 -3.86e-03 -2.40e-03 -7.35e-03 -4.88e-03 1.15e-02 3.53e-02  
## 2807 -1.96e-05 -6.57e-04 -2.43e-04 -7.42e-04 -1.82e-04 2.42e-04 -1.85e-03  
## 2808 7.27e-03 7.87e-03 9.24e-03 -2.47e-02 6.99e-03 -3.49e-02 -1.14e-01  
## 2809 7.12e-05 -3.67e-04 -7.53e-04 -2.15e-03 -6.22e-04 2.38e-03 -5.30e-03  
## 2810 -3.71e-03 -1.45e-03 -2.50e-03 2.44e-03 -2.54e-03 2.31e-03 -1.22e-02  
## 2811 -2.45e-02 3.48e-03 8.78e-03 -1.57e-02 -1.98e-02 2.27e-02 -6.60e-02  
## 2812 2.29e-04 3.36e-03 -1.58e-03 2.45e-03 -1.08e-03 5.14e-03 1.09e-02  
## 2813 -1.60e-05 -4.72e-04 -2.06e-04 2.10e-04 -3.46e-05 1.42e-04 -1.28e-03  
## 2814 1.76e-02 2.33e-02 -3.26e-02 1.22e-02 -2.38e-02 1.09e-02 -9.30e-02  
## 2815 4.15e-04 -1.17e-03 9.52e-03 -2.37e-04 -2.87e-03 -1.11e-03 3.44e-02  
## 2816 -2.61e-04 -7.75e-04 6.37e-04 -1.11e-03 -4.77e-04 -9.05e-04 3.10e-03  
## 2817 -8.34e-03 -8.80e-03 4.75e-03 -1.30e-03 -8.20e-03 3.16e-03 -3.91e-02  
## 2818 6.17e-02 7.46e-02 -3.79e-02 1.03e-02 3.37e-02 2.73e-02 -1.51e-01  
## 2819 -1.44e-05 1.68e-03 -1.77e-03 -1.74e-03 -4.62e-04 -2.78e-04 4.51e-03  
## 2820 5.76e-05 -8.96e-04 -1.17e-03 -3.82e-03 -1.76e-03 4.05e-03 -9.27e-03  
## 2821 -3.95e-03 -9.12e-03 -1.12e-02 -7.97e-04 -1.73e-02 4.03e-03 3.22e-02  
## 2822 4.49e-03 1.33e-02 8.62e-03 1.10e-03 1.92e-04 8.27e-03 3.49e-02  
## 2823 1.92e-03 5.79e-03 -1.25e-02 1.15e-02 -9.36e-03 5.03e-03 4.84e-02  
## 2824 2.98e-04 1.05e-02 1.32e-03 2.11e-03 -2.69e-03 6.06e-03 1.58e-02  
## 2825 -1.21e-02 -8.41e-03 7.17e-03 -1.48e-03 -1.45e-02 -1.28e-03 -4.53e-02  
## 2826 -2.62e-03 -3.83e-03 -2.42e-03 -2.50e-03 -2.04e-03 1.44e-03 -1.34e-02  
## 2827 -1.65e-02 -2.16e-03 2.25e-03 -4.20e-03 -7.34e-03 1.76e-02 -4.89e-02  
## 2828 5.31e-03 5.06e-04 6.24e-03 -1.75e-03 -2.51e-03 -1.00e-03 2.11e-02  
## 2829 -2.38e-03 -3.31e-03 3.30e-03 2.49e-03 -2.83e-04 7.33e-04 -1.27e-02  
## 2830 -1.03e-04 -3.80e-04 3.06e-04 6.86e-04 -1.39e-05 -3.80e-04 1.68e-03  
## 2831 5.66e-05 -8.31e-05 -1.21e-04 7.55e-06 -1.27e-04 -6.48e-05 6.60e-04  
## 2832 -9.05e-03 -1.52e-02 2.33e-02 7.06e-03 9.01e-04 5.19e-03 5.07e-02  
## 2833 9.68e-03 1.95e-02 -1.84e-02 -1.47e-02 4.42e-02 -3.84e-02 -8.99e-02  
## 2834 1.01e-06 5.10e-05 1.95e-05 5.24e-05 1.13e-05 -2.21e-05 1.33e-04  
## 2835 3.61e-05 -1.64e-03 -7.91e-04 2.47e-03 -1.44e-04 5.62e-04 -5.42e-03  
## 2836 8.41e-03 -1.05e-02 1.17e-02 1.21e-02 1.76e-02 -9.59e-03 4.41e-02  
## 2837 8.09e-03 3.91e-03 1.48e-02 -2.71e-03 -2.89e-03 2.26e-02 5.42e-02  
## 2838 -1.80e-02 -9.27e-03 1.09e-02 1.00e-02 -2.36e-03 -3.56e-03 5.49e-02  
## 2839 -4.52e-05 -1.21e-03 -8.53e-04 -2.80e-03 -1.16e-03 1.98e-03 -6.37e-03  
## 2840 9.54e-03 -2.01e-03 2.52e-03 -2.33e-03 -5.13e-03 1.62e-02 -4.23e-02  
## 2841 -2.25e-02 -9.03e-03 -9.59e-03 5.39e-03 2.10e-02 -3.13e-02 8.10e-02  
## 2842 -3.17e-02 2.76e-04 -1.41e-02 1.47e-02 -8.65e-03 -3.20e-03 6.69e-02  
## 2843 1.29e-02 -5.42e-03 2.41e-02 -2.14e-02 1.58e-02 -3.99e-03 6.08e-02  
## 2844 3.59e-03 4.10e-03 -7.25e-03 -3.42e-03 -9.21e-04 9.44e-04 2.36e-02  
## 2845 -2.13e-03 -6.48e-03 4.00e-03 4.15e-03 -7.68e-03 4.62e-03 1.76e-02  
## 2846 -5.90e-03 -2.04e-02 -1.42e-03 9.74e-03 -8.65e-03 1.33e-02 5.72e-02  
## 2847 1.28e-03 -1.05e-03 1.82e-03 -3.45e-03 2.00e-03 -2.17e-04 -7.03e-03  
## 2848 2.65e-03 -2.10e-03 3.54e-03 3.42e-03 3.62e-03 -3.77e-04 -1.39e-02  
## 2849 1.32e-02 2.26e-03 -5.24e-03 -8.54e-03 6.34e-03 7.49e-03 3.58e-02  
## 2850 1.09e-02 8.50e-03 -1.03e-02 -1.60e-02 -8.30e-03 -4.00e-03 5.04e-02  
## 2851 -1.18e-05 -1.22e-03 -4.80e-04 -1.53e-03 -4.00e-04 6.27e-04 -3.78e-03  
## 2852 3.17e-03 7.26e-03 -1.38e-02 -7.51e-04 -1.62e-02 1.15e-02 5.58e-02  
## 2853 1.33e-03 -1.11e-03 -8.75e-04 1.02e-03 -2.32e-04 3.09e-05 -4.02e-03  
## 2854 -2.75e-03 -6.87e-03 -1.05e-02 5.97e-03 -1.38e-02 7.52e-03 2.93e-02  
## 2855 1.36e-03 -1.14e-03 1.40e-03 -1.25e-04 3.29e-03 -7.60e-04 -7.02e-03  
## 2856 -3.45e-03 -1.95e-02 -1.08e-03 -1.30e-03 -1.26e-02 2.00e-02 5.66e-02  
## 2857 1.58e-02 -6.35e-03 5.55e-03 -1.01e-03 -1.67e-02 7.35e-03 -3.87e-02  
## 2858 -1.40e-02 -6.54e-03 9.77e-03 -1.93e-03 -2.07e-02 1.31e-04 -4.97e-02  
## 2859 3.29e-03 3.11e-03 1.31e-02 9.51e-03 -4.36e-03 1.17e-02 4.00e-02  
## 2860 8.14e-03 -4.22e-03 -8.70e-03 -2.22e-02 -1.23e-02 -5.65e-03 5.53e-02  
## 2861 -5.10e-05 1.76e-03 2.27e-03 -1.59e-03 4.83e-04 2.04e-03 6.71e-03  
## 2862 -2.97e-02 3.08e-03 -9.03e-03 4.45e-03 2.22e-02 -1.62e-02 7.33e-02  
## 2863 -4.67e-04 3.50e-04 1.61e-03 -2.37e-03 -1.99e-03 1.17e-03 7.03e-03  
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## 2865 8.96e-03 -2.63e-03 3.39e-03 -1.68e-03 -1.29e-02 1.16e-02 -3.53e-02  
## 2866 2.08e-03 9.77e-03 1.05e-02 5.74e-03 7.25e-03 5.59e-03 2.95e-02  
## 2867 -1.90e-02 -2.08e-03 4.46e-03 -3.48e-03 -1.12e-02 6.14e-03 -4.59e-02  
## 2868 -7.45e-06 1.24e-04 6.12e-05 5.17e-05 -2.47e-05 -6.17e-05 4.05e-04  
## 2869 1.16e-02 4.79e-03 2.88e-03 2.11e-02 -3.72e-03 4.01e-03 -4.81e-02  
## 2870 9.50e-05 -8.34e-04 -1.55e-03 3.69e-04 -1.74e-03 4.59e-03 -1.01e-02  
## 2871 1.94e-02 1.69e-03 5.87e-03 -5.52e-03 -1.09e-02 4.03e-03 -5.16e-02  
## 2872 -1.05e-03 2.21e-03 -6.65e-03 -4.50e-03 -5.87e-03 3.19e-03 1.42e-02  
## 2873 1.46e-02 3.79e-02 4.55e-03 -1.88e-02 8.87e-03 -2.22e-02 -9.77e-02  
## 2874 3.23e-02 -6.70e-03 -7.76e-03 -2.71e-02 1.69e-02 -7.53e-03 7.71e-02  
## 2875 1.07e-02 4.21e-02 2.59e-03 -2.20e-02 3.08e-02 -2.77e-02 -1.02e-01  
## 2876 -2.78e-02 2.94e-03 -9.34e-03 -3.36e-02 1.93e-02 -1.79e-03 7.26e-02  
## 2877 -1.00e-02 1.25e-03 -5.88e-03 2.73e-03 -1.67e-03 -2.21e-03 2.34e-02  
## 2878 -2.46e-02 -3.18e-03 -1.02e-02 1.63e-03 -1.74e-02 -2.67e-04 6.00e-02  
## 2879 1.60e-05 -2.31e-04 -1.00e-03 -3.10e-03 -1.18e-03 3.33e-03 -7.14e-03  
## 2880 2.23e-03 -1.45e-03 2.53e-03 2.59e-03 6.06e-03 -2.81e-03 -1.36e-02  
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## 2882 -1.86e-03 -1.36e-02 -2.55e-03 -6.38e-03 -1.65e-03 4.41e-03 2.78e-02  
## 2883 -5.38e-03 -8.93e-03 1.99e-02 -1.69e-02 1.41e-02 -1.99e-02 -6.62e-02  
## 2884 -1.15e-02 -8.84e-03 7.09e-03 -5.31e-04 -1.67e-02 -4.93e-04 -5.47e-02  
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## 2887 1.73e-02 -6.14e-03 6.20e-03 -8.75e-04 -1.55e-02 6.81e-03 -3.98e-02  
## 2888 -2.45e-03 -4.68e-03 4.34e-03 3.33e-03 -1.07e-02 9.14e-03 2.17e-02  
## 2889 5.64e-05 1.92e-02 -2.97e-02 -6.55e-03 1.57e-02 1.37e-02 -1.06e-01  
## 2890 -2.55e-02 1.39e-02 3.99e-02 7.41e-03 4.84e-03 1.24e-02 -1.35e-01  
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## 2892 -1.12e-03 4.01e-03 -8.19e-03 -8.56e-04 -7.28e-03 5.11e-03 1.70e-02  
## 2893 -1.49e-05 1.09e-03 5.60e-04 -1.30e-03 -1.92e-04 -4.48e-04 3.27e-03  
## 2894 -8.51e-03 2.78e-02 -1.20e-02 1.18e-02 1.51e-03 -1.28e-02 6.13e-02  
## 2895 -6.93e-03 -1.18e-03 -4.07e-03 3.63e-03 -2.92e-03 4.33e-03 -1.98e-02  
## 2896 -1.14e-02 -8.36e-03 7.63e-03 -9.69e-04 -1.51e-02 -1.05e-03 -5.24e-02  
## 2897 5.00e-03 3.31e-03 -1.66e-03 2.32e-03 1.62e-03 3.31e-03 1.10e-02  
## 2898 1.46e-02 8.01e-03 -1.29e-02 2.61e-03 2.13e-02 -7.37e-03 7.78e-02  
## 2899 5.48e-03 -6.10e-03 1.00e-02 8.82e-03 2.48e-03 2.56e-03 4.43e-02  
## 2900 -2.10e-02 5.07e-03 -2.83e-02 -2.37e-02 -3.64e-02 -2.66e-03 -6.87e-02  
## 2901 1.69e-02 9.52e-03 1.36e-02 4.40e-03 2.25e-02 -3.75e-03 4.99e-02  
## 2902 3.55e-03 -4.57e-03 -1.09e-02 1.04e-02 -5.22e-03 5.03e-03 4.24e-02  
## 2903 1.11e-02 3.02e-03 5.21e-03 -1.75e-02 -1.18e-02 6.70e-03 -5.29e-02  
## 2904 1.34e-02 5.13e-03 5.60e-03 -4.96e-03 -8.25e-03 1.69e-02 -5.85e-02  
## 2905 9.22e-04 1.03e-04 1.72e-03 9.03e-04 5.35e-04 -3.29e-04 6.22e-03  
## 2906 -2.54e-05 4.10e-03 -4.15e-03 -1.59e-03 -1.90e-03 -4.79e-05 1.02e-02  
## 2907 -1.74e-02 -3.26e-03 -2.31e-02 3.06e-02 -2.47e-02 5.79e-03 -6.81e-02  
## 2908 -2.40e-02 -9.06e-03 -5.85e-03 1.03e-02 -4.27e-04 -1.22e-02 7.59e-02  
## 2909 -2.21e-04 3.07e-04 3.71e-04 -8.56e-05 1.09e-04 -3.25e-04 1.56e-03  
## 2910 -1.33e-02 8.43e-03 -7.41e-03 -1.56e-02 -8.37e-03 2.36e-03 4.41e-02  
## 2911 1.32e-03 -3.80e-04 2.34e-03 1.98e-03 2.98e-04 1.47e-03 -1.02e-02  
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## 2914 -2.99e-02 1.15e-03 -1.25e-02 1.71e-02 -1.94e-02 6.47e-04 9.15e-02  
## 2915 -5.08e-03 1.18e-02 8.22e-03 -1.84e-03 3.64e-03 -2.43e-03 3.31e-02  
## 2916 3.80e-03 -1.46e-03 -6.21e-03 -1.15e-02 3.28e-03 -1.08e-03 -2.53e-02  
## 2917 8.67e-03 -1.90e-03 2.50e-03 -2.01e-03 -7.93e-03 1.13e-02 -3.21e-02  
## 2918 1.60e-02 1.37e-02 9.14e-03 -2.47e-02 -1.13e-02 9.86e-03 -7.83e-02  
## 2919 1.43e-02 -1.37e-02 1.11e-02 1.22e-02 7.85e-03 2.62e-04 3.95e-02  
## 2920 -1.37e-02 -5.45e-03 9.88e-03 -2.60e-03 -2.21e-02 7.17e-03 -5.40e-02  
## 2921 7.11e-04 -2.49e-03 1.18e-02 1.27e-02 1.02e-02 3.83e-03 3.53e-02  
## 2922 2.36e-04 1.13e-03 -7.19e-04 1.09e-03 -3.15e-04 1.95e-03 4.36e-03  
## 2923 1.86e-02 1.37e-02 -1.34e-02 1.44e-04 2.96e-02 -5.45e-04 5.69e-02  
## 2924 2.33e-03 -2.98e-03 -4.19e-03 3.57e-03 -4.50e-03 -4.91e-03 -1.74e-02  
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## 2926 4.30e-05 3.14e-03 9.84e-04 2.42e-03 -3.18e-04 -3.15e-04 7.59e-03  
## 2927 -1.30e-02 -1.43e-02 -2.30e-03 -2.49e-02 -5.74e-03 -9.44e-03 8.88e-02  
## 2928 1.69e-03 1.78e-02 -3.60e-03 8.08e-03 1.16e-03 7.87e-03 3.99e-02  
## 2929 1.38e-04 -2.65e-04 1.74e-03 1.20e-03 7.99e-05 2.01e-03 -4.94e-03  
## 2930 -1.71e-03 -5.63e-03 2.80e-03 -8.37e-03 -6.20e-03 4.04e-03 1.58e-02  
## 2931 3.23e-03 -1.98e-03 4.51e-03 4.13e-03 4.98e-03 -1.34e-03 -1.79e-02  
## 2932 -1.04e-02 -1.60e-02 -4.64e-03 2.40e-02 -2.84e-03 -7.01e-03 5.89e-02  
## 2933 -5.70e-03 -7.97e-04 -4.01e-03 6.43e-03 1.36e-03 6.28e-03 2.90e-02  
## 2934 -6.33e-03 3.96e-04 1.18e-02 -7.99e-03 7.27e-03 2.93e-03 3.31e-02  
## 2935 -1.79e-02 3.57e-03 1.02e-02 -2.09e-02 -1.84e-02 2.22e-02 -8.60e-02  
## 2936 2.53e-02 3.62e-02 9.74e-03 -1.56e-02 2.43e-02 1.96e-02 -1.18e-01  
## 2937 3.51e-03 2.07e-03 -1.16e-03 8.74e-05 1.85e-04 2.08e-03 6.84e-03  
## 2938 9.75e-06 -8.89e-04 -4.19e-04 -3.42e-04 -2.73e-04 6.55e-04 -2.61e-03  
## 2939 -1.68e-04 5.13e-03 -5.11e-03 4.48e-03 -1.69e-03 -1.85e-03 1.32e-02  
## 2940 1.04e-02 -7.67e-03 -8.48e-03 -1.91e-02 -6.04e-03 -4.38e-03 5.61e-02  
## 2941 1.33e-02 -9.82e-05 2.00e-02 1.42e-03 2.97e-02 -7.58e-03 5.71e-02  
## 2942 1.28e-02 -1.58e-02 -5.29e-03 7.76e-03 9.62e-03 4.56e-03 4.58e-02  
## 2943 1.87e-02 -1.40e-02 -4.47e-03 -3.01e-03 4.38e-03 3.20e-03 4.40e-02  
## 2944 8.01e-03 1.33e-02 2.74e-03 -9.82e-03 8.02e-03 -4.66e-03 -5.85e-02  
## 2945 -4.95e-04 4.48e-04 7.49e-04 6.53e-05 5.31e-05 3.23e-04 -2.68e-03  
## 2946 -3.23e-03 -5.21e-03 -1.08e-02 -2.70e-03 -1.55e-02 1.00e-02 2.64e-02  
## 2947 -1.39e-02 4.69e-03 -8.43e-03 9.28e-03 -1.72e-03 -3.36e-03 3.38e-02  
## 2948 -2.09e-03 -8.43e-03 -6.54e-03 -4.13e-03 -6.89e-03 9.09e-04 1.76e-02  
## 2949 1.06e-02 8.37e-03 3.67e-03 2.11e-02 -4.15e-03 1.67e-02 -6.10e-02  
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## 2951 9.20e-03 -2.17e-03 2.74e-03 -1.69e-03 -7.08e-03 1.16e-02 -3.23e-02  
## 2952 -5.95e-03 -1.61e-02 -3.70e-03 7.38e-03 -6.90e-04 2.78e-03 4.61e-02  
## 2953 1.71e-02 1.34e-02 -1.13e-02 2.42e-02 2.74e-02 -1.99e-02 8.08e-02  
## 2954 -2.43e-03 -4.61e-03 4.21e-03 -8.20e-03 -1.12e-02 9.45e-03 2.13e-02  
## 2955 1.71e-02 -1.48e-02 1.76e-02 4.83e-03 1.34e-02 -1.29e-02 5.62e-02  
## 2956 1.33e-02 6.43e-03 5.45e-03 -5.30e-03 -9.58e-03 1.60e-02 -5.64e-02  
## 2957 1.93e-03 -4.27e-03 -8.96e-03 9.96e-03 -5.59e-03 -1.86e-03 3.69e-02  
## 2958 -1.60e-02 3.61e-03 2.15e-02 -1.93e-02 4.10e-03 -2.63e-02 -1.06e-01  
## 2959 -9.95e-04 -9.02e-04 -5.99e-03 -2.74e-03 -4.98e-03 -4.90e-04 1.50e-02  
## 2960 2.62e-03 4.12e-03 -7.59e-03 2.71e-03 -2.69e-03 -2.07e-03 2.80e-02  
## 2961 -3.25e-02 3.19e-02 -3.77e-02 7.03e-03 -1.96e-02 -1.56e-02 -1.04e-01  
## 2962 -2.32e-02 3.96e-04 -8.92e-03 1.97e-03 -1.99e-02 9.56e-03 8.93e-02  
## 2963 3.80e-06 2.24e-03 2.91e-03 1.80e-03 1.13e-03 9.35e-04 8.19e-03  
## 2964 -2.70e-02 1.29e-03 2.98e-02 2.05e-03 3.24e-02 -3.30e-02 9.05e-02  
## 2965 1.09e-04 3.58e-04 6.39e-04 4.29e-04 2.24e-04 8.06e-04 2.11e-03  
## 2966 -1.13e-02 -9.38e-03 6.88e-03 -1.28e-02 -1.54e-02 6.61e-04 -4.41e-02  
## 2967 2.15e-03 -1.39e-03 -3.01e-03 1.86e-04 2.03e-03 5.02e-04 -9.61e-03  
## 2968 8.23e-04 -2.96e-04 1.51e-03 -1.74e-04 -3.17e-04 1.58e-03 -6.48e-03  
## 2969 8.91e-03 4.86e-02 8.37e-03 -2.05e-02 5.69e-03 -2.60e-02 -1.17e-01  
## 2970 3.02e-02 1.05e-02 9.32e-03 9.53e-03 -9.42e-03 1.45e-02 -7.83e-02  
## 2971 -2.44e-02 -4.93e-03 1.45e-02 1.09e-02 -3.00e-03 -1.80e-03 5.05e-02  
## 2972 -3.65e-03 -9.78e-03 -9.09e-03 -6.95e-03 -1.36e-02 2.77e-03 2.97e-02  
## 2973 -3.35e-03 -4.45e-03 -1.16e-02 4.39e-03 -1.67e-02 1.17e-02 2.88e-02  
## 2974 1.57e-02 -9.73e-03 -8.29e-03 5.20e-03 1.67e-02 -1.14e-02 5.59e-02  
## 2975 2.31e-03 -9.74e-04 -2.88e-03 2.48e-03 -1.09e-03 -1.10e-03 1.51e-02  
## 2976 7.11e-05 -2.69e-04 -1.39e-03 3.60e-05 -8.47e-04 3.73e-03 -8.15e-03  
## 2977 1.36e-04 -8.46e-04 -2.06e-03 3.76e-03 -2.28e-03 5.68e-03 -1.35e-02  
## 2978 -2.14e-04 -8.60e-04 -1.31e-03 -3.60e-04 -2.53e-04 -1.01e-03 3.20e-03  
## 2979 4.15e-03 -8.75e-04 -6.43e-03 -5.08e-05 6.39e-03 -2.99e-03 -2.04e-02  
## 2980 -8.36e-04 6.41e-04 3.40e-03 5.48e-03 -4.26e-03 3.69e-05 1.79e-02  
## 2981 -2.47e-03 1.99e-02 -7.51e-03 1.63e-02 9.44e-03 -1.11e-02 4.57e-02  
## 2982 1.04e-02 1.41e-02 -5.70e-03 -8.50e-04 1.33e-02 6.44e-03 3.00e-02  
## 2983 7.91e-07 1.96e-05 5.79e-06 1.68e-05 2.38e-06 -8.35e-07 4.58e-05  
## 2984 1.32e-04 3.84e-03 -1.87e-03 2.82e-03 -7.09e-04 4.77e-03 1.21e-02  
## 2985 -3.06e-03 -5.24e-03 -1.08e-02 3.74e-03 -1.41e-02 1.08e-02 2.90e-02  
## 2986 3.31e-02 -1.26e-03 1.52e-02 -1.70e-02 1.07e-02 -1.59e-02 -8.05e-02  
## 2987 2.47e-02 -1.65e-02 2.14e-02 7.02e-03 1.01e-02 -2.24e-03 6.43e-02  
## 2988 5.20e-03 -4.80e-03 1.07e-02 8.83e-03 5.01e-04 3.05e-03 4.32e-02  
## 2989 -5.80e-04 3.78e-03 1.98e-03 2.46e-03 -4.72e-03 6.75e-03 1.60e-02  
## 2990 -5.07e-04 -5.98e-04 6.89e-04 -1.63e-05 -6.81e-04 7.87e-04 -2.89e-03  
## 2991 7.93e-03 4.29e-03 1.54e-02 -2.70e-02 -5.59e-03 2.56e-02 6.10e-02  
## 2992 3.95e-03 -6.61e-03 -1.17e-02 1.41e-02 -1.01e-02 -3.41e-03 4.93e-02  
## 2993 -4.01e-02 3.30e-02 2.99e-03 -2.16e-02 1.01e-02 -2.36e-02 -1.09e-01  
## 2994 1.54e-02 1.23e-02 -1.20e-02 9.50e-04 2.78e-02 -1.19e-02 6.62e-02  
## 2995 -1.56e-03 -6.61e-03 2.74e-03 3.52e-03 -4.40e-03 1.88e-03 1.41e-02  
## 2996 -1.81e-02 -2.76e-03 4.80e-03 -2.52e-03 -1.04e-02 6.07e-03 -4.13e-02  
## 2997 -2.25e-03 -5.94e-03 3.98e-03 3.77e-03 -8.27e-03 5.52e-03 1.82e-02  
## 2998 -5.89e-03 -1.82e-04 6.22e-03 2.06e-03 -1.21e-03 -5.13e-03 2.24e-02  
## 2999 -2.12e-02 1.56e-02 1.20e-02 -7.97e-03 -2.31e-02 2.52e-03 -8.70e-02  
## 3000 1.12e-02 -4.40e-04 -2.00e-02 -1.21e-02 -2.09e-02 1.51e-02 -5.32e-02  
## 3001 -3.68e-03 -9.97e-03 -9.85e-03 8.09e-03 -1.39e-02 1.40e-03 3.33e-02  
## 3002 -1.11e-02 -5.89e-03 5.42e-03 -3.11e-03 -9.80e-03 1.16e-03 -4.23e-02  
## 3003 -1.65e-02 3.64e-03 7.87e-03 -8.78e-03 -1.66e-02 2.83e-03 -7.13e-02  
## 3004 -6.71e-04 2.80e-03 2.34e-03 3.17e-03 -4.04e-03 4.21e-03 1.27e-02  
## 3005 -4.67e-03 -5.17e-03 -1.38e-02 6.26e-03 -2.34e-02 1.14e-02 4.11e-02  
## 3006 1.34e-02 -9.82e-03 -8.57e-03 2.10e-02 1.06e-02 2.73e-03 7.35e-02  
## 3007 1.76e-04 4.85e-03 7.04e-04 1.60e-03 -1.05e-03 2.76e-03 8.47e-03  
## 3008 -1.19e-03 -2.13e-03 2.06e-03 1.70e-04 -4.63e-05 4.54e-04 -6.93e-03  
## 3009 -1.66e-02 1.32e-02 -8.27e-03 -6.82e-03 -1.38e-02 2.12e-03 5.35e-02  
## 3010 2.99e-02 -1.38e-02 -4.61e-03 1.07e-02 -2.99e-03 6.07e-03 6.80e-02  
## 3011 1.81e-03 -1.79e-03 2.76e-03 -2.14e-03 1.66e-03 -2.41e-05 -9.41e-03  
## 3012 3.94e-02 -3.96e-03 1.53e-02 3.21e-04 1.69e-02 -9.52e-03 -6.92e-02  
## 3013 2.18e-03 3.55e-03 -6.22e-03 6.42e-03 1.08e-03 -2.87e-03 2.13e-02  
## 3014 -1.54e-05 7.23e-05 1.12e-04 -1.70e-05 5.46e-07 -2.45e-04 6.60e-04  
## 3015 -8.74e-03 3.35e-02 -3.28e-02 -7.93e-03 1.92e-03 6.64e-03 -1.19e-01  
## 3016 2.17e-03 4.16e-05 2.49e-03 -1.70e-03 2.74e-03 -3.66e-04 1.37e-02  
## 3017 -2.37e-03 -5.31e-03 4.03e-03 3.48e-03 -9.49e-03 7.25e-03 1.95e-02  
## 3018 -2.42e-03 -5.00e-03 4.38e-03 3.60e-03 -1.07e-02 8.94e-03 2.15e-02  
## 3019 4.22e-03 -5.39e-04 -6.34e-03 -2.21e-04 5.73e-03 -1.60e-03 -1.99e-02  
## 3020 -1.95e-03 -5.98e-03 3.16e-03 3.14e-03 -6.48e-03 5.00e-03 1.82e-02  
## 3021 -1.42e-05 -2.82e-04 -8.95e-04 -2.72e-03 -1.05e-03 2.85e-03 -6.26e-03  
## 3022 -1.97e-02 -9.12e-04 4.58e-03 -4.28e-03 -1.03e-02 5.19e-03 -4.73e-02  
## 3023 -3.01e-03 -6.38e-03 -1.09e-02 5.63e-03 -1.41e-02 8.00e-03 2.64e-02  
## 3024 -1.38e-02 1.43e-02 2.83e-02 -2.35e-02 1.11e-02 9.85e-03 -1.26e-01  
## 3025 -1.02e-02 -2.91e-02 2.52e-02 1.51e-02 1.22e-02 -1.40e-02 -9.80e-02  
## 3026 -1.74e-02 -6.45e-03 5.90e-03 -2.30e-04 -1.54e-02 6.96e-03 -4.02e-02  
## 3027 -2.35e-02 1.61e-02 8.37e-03 -1.52e-02 -2.01e-02 -9.42e-03 -8.79e-02  
## 3028 1.20e-05 2.98e-03 5.97e-04 -1.46e-03 -8.01e-04 1.33e-03 5.01e-03  
## 3029 1.51e-04 5.17e-03 -2.08e-03 -3.30e-03 -1.04e-03 5.98e-03 1.49e-02  
## 3030 -1.65e-02 -4.64e-03 -1.95e-02 -4.44e-04 -1.63e-02 1.08e-02 -4.58e-02  
## 3031 1.77e-02 4.08e-04 -8.59e-03 7.00e-03 1.57e-02 6.96e-03 6.52e-02  
## 3032 1.85e-03 -1.36e-03 -1.10e-03 -1.11e-03 1.79e-04 -1.19e-03 6.12e-03  
## 3033 -3.39e-04 -2.58e-04 1.03e-03 -1.33e-03 -9.46e-04 3.43e-05 4.40e-03  
## 3034 -3.51e-03 1.05e-03 -2.47e-03 7.61e-03 -5.23e-03 1.20e-02 3.62e-02  
## 3035 -3.07e-04 2.90e-04 -4.42e-04 6.74e-05 -2.16e-04 -4.22e-04 2.52e-03  
## 3036 -5.83e-03 -3.45e-02 1.64e-02 -1.41e-03 8.51e-03 -5.08e-02 -1.21e-01  
## 3037 1.49e-03 2.93e-03 -1.19e-02 -1.28e-03 -8.30e-03 6.08e-03 4.93e-02  
## 3038 -1.27e-02 3.63e-02 -3.67e-02 3.68e-02 -1.24e-02 1.43e-02 -1.31e-01  
## 3039 -1.34e-02 -8.31e-03 1.51e-02 1.40e-03 1.75e-02 -2.45e-02 -8.74e-02  
## 3040 -5.81e-03 -8.79e-03 1.92e-02 -1.74e-02 1.36e-02 -2.00e-02 -6.60e-02  
## 3041 -9.32e-03 1.08e-03 -5.01e-03 4.26e-03 -3.23e-03 -1.93e-03 2.57e-02  
## 3042 -1.58e-04 -2.88e-03 -2.84e-03 -7.35e-03 -3.50e-03 1.05e-02 2.86e-02  
## 3043 2.97e-02 1.55e-02 -3.53e-02 3.00e-02 -2.26e-02 5.74e-03 -9.55e-02  
## 3044 3.20e-03 2.25e-03 1.32e-02 -1.34e-03 -5.33e-03 1.23e-02 3.83e-02  
## 3045 1.09e-02 2.31e-02 -1.93e-02 1.07e-02 4.79e-02 -3.89e-02 -9.05e-02  
## 3046 2.00e-02 1.27e-03 7.46e-03 1.13e-02 -2.02e-02 1.35e-02 -6.02e-02  
## 3047 4.17e-03 -6.44e-04 -6.59e-03 5.21e-03 6.45e-03 -2.62e-03 -2.07e-02  
## 3048 1.70e-03 -9.11e-03 -8.26e-03 1.28e-02 -6.23e-03 -1.75e-03 3.78e-02  
## 3049 9.49e-04 4.79e-03 -2.64e-03 -4.34e-03 8.85e-04 6.63e-03 1.84e-02  
## 3050 -9.50e-04 -2.20e-03 -1.49e-03 -5.28e-03 -1.32e-03 9.09e-03 2.50e-02  
## 3051 -2.65e-02 2.91e-02 -3.71e-02 8.25e-03 -2.99e-02 -1.44e-02 -1.08e-01  
## 3052 1.66e-03 1.55e-03 -1.33e-03 -2.26e-04 -2.68e-04 -1.10e-05 5.39e-03  
## 3053 -3.92e-04 -1.84e-04 9.92e-04 6.90e-05 -1.01e-03 3.43e-04 5.06e-03  
## 3054 -1.56e-02 -2.93e-02 2.49e-02 -2.81e-02 6.80e-03 -4.47e-03 -1.10e-01  
## 3055 -9.36e-06 6.79e-05 -2.45e-04 2.95e-04 1.68e-05 -2.72e-04 6.97e-04  
## 3056 1.74e-02 1.15e-02 -1.05e-02 -7.29e-03 -3.55e-03 3.58e-03 5.62e-02  
## 3057 8.99e-03 2.87e-03 1.59e-03 -5.20e-03 -5.29e-04 1.51e-02 -4.74e-02  
## 3058 8.56e-03 -1.04e-02 1.23e-02 1.26e-02 -9.57e-04 -4.19e-04 5.59e-02  
## 3059 -8.68e-03 -1.56e-02 -4.74e-03 9.81e-03 -1.36e-04 4.25e-04 5.90e-02  
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## 3061 4.04e-03 6.45e-03 -1.37e-02 1.19e-02 -9.03e-03 1.35e-02 4.60e-02  
## 3062 2.04e-02 9.39e-03 -1.16e-02 2.48e-02 2.68e-02 -4.55e-03 6.72e-02  
## 3063 2.17e-02 -4.96e-03 6.83e-03 -1.66e-03 -1.63e-02 1.34e-02 -5.31e-02  
## 3064 -1.04e-02 4.69e-03 -5.36e-03 -1.68e-03 5.17e-03 3.54e-03 3.81e-02  
## 3065 -2.96e-03 -6.79e-03 -1.06e-02 5.71e-03 -1.34e-02 7.05e-03 2.55e-02  
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## 3067 -1.40e-03 1.88e-03 -1.76e-03 2.81e-03 -1.40e-03 -8.50e-04 6.87e-03  
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## 3069 -3.28e-03 6.37e-03 -4.07e-03 -4.90e-03 -6.33e-04 -2.92e-03 2.15e-02  
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## 3072 -2.15e-03 4.29e-03 -2.66e-02 -1.16e-04 6.50e-03 2.47e-03 -9.37e-02  
## 3073 -1.11e-04 -2.24e-04 -9.63e-05 3.84e-05 -7.85e-05 3.67e-05 -6.01e-04  
## 3074 -1.14e-02 -6.00e-03 2.10e-03 -1.21e-03 -6.02e-03 6.62e-03 -3.21e-02  
## 3075 3.25e-02 5.86e-04 1.08e-02 3.45e-02 2.52e-02 8.84e-03 -8.47e-02  
## 3076 8.08e-03 4.47e-03 1.46e-02 9.45e-03 -2.79e-03 2.28e-02 5.60e-02  
## 3077 -2.12e-02 -3.37e-03 -2.30e-02 1.45e-05 -2.21e-02 7.36e-03 -5.28e-02  
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## 3079 1.39e-04 6.50e-04 -3.39e-04 1.27e-04 1.23e-04 6.78e-04 -1.75e-03  
## 3080 -1.13e-03 5.60e-03 -9.44e-03 4.40e-03 -8.20e-03 6.59e-03 2.05e-02  
## 3081 9.00e-03 -1.10e-03 2.37e-03 1.61e-02 -6.57e-03 2.27e-02 -4.65e-02  
## 3082 -2.15e-02 -1.19e-02 -8.36e-03 -2.78e-02 1.37e-02 -2.00e-02 8.31e-02  
## 3083 -1.65e-02 -4.29e-03 3.70e-03 -2.23e-03 -1.15e-02 6.78e-03 -3.71e-02  
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## 3085 3.56e-03 -2.04e-03 4.47e-03 -3.06e-07 4.88e-03 -4.81e-04 -1.68e-02  
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## 3087 -6.63e-04 3.68e-03 2.56e-03 -9.37e-03 -5.94e-03 6.67e-03 1.85e-02  
## 3088 -1.20e-02 -1.06e-02 1.77e-02 -1.48e-02 1.05e-02 -3.44e-02 -8.07e-02  
## 3089 1.98e-03 2.38e-03 -4.59e-03 -2.53e-03 -2.91e-04 -2.87e-04 1.84e-02  
## 3090 6.84e-03 4.71e-03 -5.55e-03 -2.98e-03 -4.10e-03 -4.81e-04 2.97e-02  
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## 3092 -7.36e-04 1.28e-03 -1.48e-03 2.87e-04 2.57e-04 -1.35e-03 8.82e-03  
## 3093 -2.14e-03 -5.23e-03 3.44e-03 2.84e-03 -8.35e-03 7.84e-03 2.12e-02  
## 3094 -2.03e-02 6.09e-03 9.69e-03 -2.66e-02 -1.50e-02 9.36e-03 -8.33e-02  
## 3095 -5.91e-04 1.60e-03 2.11e-03 3.15e-03 -2.94e-03 2.51e-03 1.05e-02  
## 3096 2.11e-02 -1.60e-02 -3.35e-03 -1.44e-03 -1.71e-03 3.35e-03 4.68e-02  
## 3097 9.22e-03 -1.30e-02 -4.91e-03 -9.66e-03 4.98e-03 4.92e-03 3.93e-02  
## 3098 -5.86e-03 1.73e-02 -2.57e-02 1.23e-04 6.26e-03 -9.56e-04 -9.72e-02  
## 3099 1.12e-02 9.55e-03 3.14e-02 8.80e-03 6.10e-02 -3.85e-02 -1.06e-01  
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## 3101 1.94e-03 -6.74e-03 6.79e-03 -9.43e-03 -1.55e-03 1.22e-03 2.36e-02  
## 3102 3.90e-05 -1.36e-03 -8.40e-04 6.77e-04 -4.20e-04 1.30e-03 -4.98e-03  
## 3103 -2.26e-05 -1.63e-04 1.25e-04 1.73e-04 1.05e-04 -3.45e-04 -7.55e-04  
## 3104 -3.71e-03 -1.06e-04 -4.35e-03 -2.55e-03 6.59e-03 -1.05e-03 3.40e-02  
## 3105 -6.61e-05 1.04e-03 -1.59e-03 -1.39e-03 -3.83e-04 -1.23e-03 4.53e-03  
## 3106 -2.51e-03 -4.76e-03 4.20e-03 3.38e-03 -1.11e-02 9.33e-03 2.14e-02  
## 3107 -2.36e-03 -4.00e-02 1.68e-02 -2.89e-02 3.53e-05 -4.79e-02 -1.23e-01  
## 3108 8.89e-05 -1.53e-04 9.59e-05 1.17e-04 -4.48e-05 -2.11e-04 -6.29e-04  
## 3109 -1.27e-02 -1.21e-02 -4.13e-03 9.77e-03 3.84e-03 2.09e-03 6.40e-02  
## 3110 -1.67e-02 -1.12e-02 1.72e-02 -2.32e-02 -9.69e-03 -1.15e-02 5.86e-02  
## 3111 -1.47e-02 -9.93e-04 8.27e-03 -4.90e-03 -1.45e-02 1.64e-02 -5.96e-02  
## 3112 -9.82e-03 6.99e-03 1.64e-02 -3.38e-03 8.91e-03 2.22e-03 4.87e-02  
## 3113 -5.66e-04 -3.63e-03 -1.85e-03 5.62e-03 -4.57e-03 7.67e-03 2.54e-02  
## 3114 -1.28e-04 -3.15e-04 3.23e-04 -2.95e-04 -1.32e-04 -3.72e-04 1.47e-03  
## 3115 -2.27e-02 3.73e-03 2.54e-03 5.69e-03 -4.38e-03 -2.52e-04 -5.49e-02  
## 3116 -6.07e-06 4.14e-05 -1.49e-04 2.61e-06 -3.71e-06 -1.94e-04 4.49e-04  
## 3117 -2.07e-02 1.63e-02 -3.27e-02 -3.41e-03 1.87e-02 -1.87e-03 -1.12e-01  
## 3118 2.95e-04 1.33e-03 -6.80e-04 8.99e-04 -9.18e-05 1.77e-03 -4.24e-03  
## 3119 1.69e-02 2.86e-03 -1.04e-02 -1.30e-02 2.15e-02 5.60e-03 5.05e-02  
## 3120 4.89e-03 -2.61e-03 -6.68e-03 6.11e-03 2.04e-03 -3.81e-03 -2.53e-02  
## 3121 -2.47e-03 -5.08e-03 3.85e-03 3.26e-03 -9.85e-03 7.56e-03 1.94e-02  
## 3122 1.97e-03 -6.71e-03 4.64e-03 -2.85e-03 1.04e-03 -1.73e-03 2.15e-02  
## 3123 -1.14e-02 1.14e-02 1.79e-02 -7.67e-03 1.23e-03 -1.72e-03 -9.49e-02  
## 3124 -1.96e-03 -5.16e-03 3.17e-03 -6.53e-03 -7.64e-03 6.65e-03 1.88e-02  
## 3125 1.34e-02 -6.02e-04 -2.51e-03 -5.65e-03 -6.66e-04 7.67e-03 2.60e-02  
## 3126 -7.72e-03 9.70e-04 6.76e-03 -9.10e-03 -2.11e-03 -3.56e-03 2.73e-02  
## 3127 6.43e-03 -2.12e-03 -5.08e-03 3.63e-03 4.95e-03 -4.74e-04 -2.10e-02  
## 3128 1.82e-02 3.79e-03 -1.32e-02 1.85e-02 3.08e-02 -1.10e-02 6.99e-02  
## 3129 -2.78e-03 -2.22e-03 -1.72e-03 -1.84e-03 2.21e-04 -2.22e-03 1.13e-02  
## 3130 -7.79e-04 -3.90e-03 1.29e-03 -2.81e-03 -1.61e-03 -4.64e-04 6.59e-03  
## 3131 1.10e-02 1.66e-02 2.04e-03 -9.75e-03 1.49e-03 1.96e-03 -7.00e-02  
## 3132 -1.65e-02 -2.15e-03 9.99e-03 -4.14e-03 -2.33e-02 -1.96e-03 -4.74e-02  
## 3133 -3.21e-03 4.37e-04 -4.53e-03 -1.29e-02 2.15e-03 -2.74e-03 3.99e-02  
## 3134 -5.58e-03 -8.52e-03 1.91e-02 1.58e-03 1.57e-02 -2.17e-02 -6.46e-02  
## 3135 -1.57e-02 4.19e-03 -2.74e-02 4.92e-02 6.83e-03 -3.41e-02 -1.17e-01  
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## 3137 1.87e-02 5.37e-04 5.80e-03 9.95e-03 -1.36e-02 2.81e-02 -7.22e-02  
## 3138 1.07e-02 1.99e-02 -1.79e-02 -1.38e-02 4.60e-02 -3.88e-02 -9.13e-02  
## 3139 9.97e-03 -1.17e-02 -9.17e-03 2.94e-03 -1.40e-02 -1.36e-02 5.75e-02  
## 3140 -2.42e-03 -5.38e-03 3.76e-03 3.37e-03 -9.24e-03 6.63e-03 1.86e-02  
## 3141 -1.27e-02 -8.46e-03 7.92e-03 2.68e-02 -2.05e-02 6.48e-03 -5.79e-02  
## 3142 1.30e-02 5.69e-03 5.69e-03 -1.64e-02 -1.93e-02 2.96e-02 -6.91e-02  
## 3143 -1.16e-02 -1.17e-02 2.76e-02 5.36e-03 2.28e-02 -2.40e-02 8.23e-02  
## 3144 8.44e-03 -1.02e-02 1.12e-02 -2.85e-03 1.20e-02 2.74e-03 3.44e-02  
## 3145 -2.01e-02 -9.22e-03 1.25e-02 1.14e-02 -4.49e-03 -6.31e-03 4.81e-02  
## 3146 8.50e-03 -2.93e-04 -1.23e-02 1.40e-02 -2.06e-03 1.39e-02 5.51e-02  
## 3147 1.24e-02 -5.26e-03 1.67e-02 1.54e-02 2.72e-02 -4.81e-03 5.64e-02  
## 3148 -1.05e-02 5.93e-03 -8.89e-03 -1.55e-02 1.54e-02 -8.80e-03 5.16e-02  
## 3149 1.26e-03 -6.65e-03 9.72e-03 2.41e-03 -4.57e-03 9.14e-05 3.34e-02  
## 3150 1.38e-02 9.88e-03 2.92e-02 1.11e-03 2.38e-02 -8.26e-03 7.63e-02  
## 3151 -3.52e-04 -3.40e-04 8.89e-04 1.70e-03 -5.58e-04 -6.20e-05 5.49e-03  
## 3152 -1.83e-03 -7.07e-03 3.08e-03 4.05e-03 -4.59e-03 3.27e-04 1.38e-02  
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## 3154 -1.09e-02 9.72e-03 2.31e-02 -2.71e-02 1.53e-02 -4.30e-03 -9.68e-02  
## 3155 -2.77e-02 1.56e-02 -4.64e-03 4.15e-03 1.45e-02 -3.57e-02 1.07e-01  
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## 3157 -6.75e-04 1.95e-03 1.90e-03 2.71e-03 -3.40e-03 3.19e-03 1.05e-02  
## 3158 -2.26e-02 -8.45e-03 2.19e-02 1.65e-02 -1.49e-02 -2.96e-03 6.38e-02  
## 3159 -2.24e-02 -9.79e-03 2.94e-02 8.48e-03 9.26e-03 -3.68e-03 6.99e-02  
## 3160 -9.99e-03 -1.20e-02 -5.30e-03 7.43e-03 8.82e-03 -1.23e-02 6.13e-02  
## 3161 -3.99e-04 -5.91e-05 1.19e-03 2.23e-03 -1.06e-03 4.89e-04 6.66e-03  
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## 3163 4.67e-03 -2.50e-03 4.17e-03 -6.70e-03 9.97e-04 1.35e-03 -1.58e-02  
## 3164 -5.22e-04 -1.43e-03 -3.05e-03 3.15e-03 -8.13e-04 -2.29e-03 7.97e-03  
## 3165 1.86e-03 -8.42e-04 -1.32e-03 1.05e-03 -7.43e-04 -7.93e-04 6.13e-03  
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## 3168 1.41e-02 8.24e-03 5.48e-03 -5.27e-03 -1.42e-02 9.93e-03 -7.02e-02  
## 3169 -6.16e-04 1.41e-03 2.03e-03 3.26e-03 -3.11e-03 2.28e-03 1.22e-02  
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## 3172 1.62e-05 8.11e-04 5.23e-04 1.36e-03 1.17e-04 -9.55e-04 3.41e-03  
## 3173 -5.13e-03 -2.43e-04 -2.39e-03 -5.43e-03 -3.73e-03 3.34e-03 -1.46e-02  
## 3174 -4.34e-02 4.09e-02 -3.98e-02 -1.64e-02 -2.66e-02 -9.47e-03 -1.28e-01  
## 3175 5.79e-05 5.73e-03 -4.74e-03 3.18e-03 -1.47e-03 8.92e-04 1.06e-02  
## 3176 -2.38e-03 -5.16e-03 4.34e-03 3.66e-03 -1.04e-02 8.50e-03 2.10e-02  
## 3177 2.04e-03 -1.29e-03 1.71e-03 -3.08e-03 9.53e-04 4.49e-04 -6.91e-03  
## 3178 -5.09e-04 1.94e-02 -5.50e-03 -2.28e-03 1.18e-02 5.81e-03 4.33e-02  
## 3179 -1.78e-02 -8.42e-03 9.82e-03 -1.32e-02 1.39e-02 -1.68e-02 -7.88e-02  
## 3180 5.48e-04 -5.26e-04 6.26e-04 -1.00e-04 1.17e-03 -2.95e-04 -3.18e-03  
## 3181 -1.15e-02 -1.08e-02 -2.36e-02 -1.42e-02 9.87e-03 -3.46e-02 -9.19e-02  
## 3182 3.83e-06 -1.10e-03 -1.46e-03 7.36e-04 -1.84e-03 3.67e-03 -9.17e-03  
## 3183 2.36e-02 -1.25e-02 -6.73e-03 6.55e-03 1.04e-02 -5.03e-03 5.69e-02  
## 3184 -3.36e-03 2.21e-03 2.49e-02 -1.18e-03 1.49e-02 -9.17e-03 -7.95e-02  
## 3185 -1.75e-03 -6.70e-03 2.99e-03 3.70e-03 -5.46e-03 2.96e-03 1.57e-02  
## 3186 -2.48e-04 2.74e-04 7.80e-04 -6.43e-04 4.29e-04 -3.05e-04 3.16e-03  
## 3187 5.79e-03 4.14e-03 -1.05e-02 -1.32e-02 -1.32e-02 1.36e-02 6.76e-02  
## 3188 8.23e-05 -5.55e-04 1.15e-03 9.37e-04 -7.70e-05 1.08e-03 -3.07e-03  
## 3189 1.81e-04 6.45e-03 7.89e-04 1.68e-03 -1.75e-03 4.15e-03 1.11e-02  
## 3190 2.43e-02 3.29e-02 -3.78e-02 8.15e-03 1.83e-02 1.64e-02 -1.19e-01  
## 3191 1.75e-02 -2.19e-05 2.40e-02 3.07e-03 2.95e-02 -1.75e-02 6.91e-02  
## 3192 -6.89e-04 4.88e-03 2.65e-03 3.04e-03 -5.78e-03 7.28e-03 1.66e-02  
## 3193 3.35e-02 -2.25e-02 1.75e-02 3.72e-02 1.95e-02 4.28e-03 -1.10e-01  
## 3194 -5.14e-03 1.08e-02 -4.81e-03 -1.78e-02 2.81e-03 -2.25e-03 5.24e-02  
## 3195 7.22e-05 -5.30e-04 -1.37e-03 2.00e-03 -4.21e-04 2.98e-03 -7.80e-03  
## 3196 1.10e-02 3.07e-02 4.69e-03 -1.64e-02 7.29e-03 7.94e-04 -7.70e-02  
## 3197 -4.46e-03 7.65e-03 -3.67e-03 7.96e-03 -3.64e-03 -2.68e-04 2.20e-02  
## 3198 -3.35e-02 4.50e-03 -1.32e-02 -1.20e-03 -1.40e-02 7.23e-03 5.81e-02  
## 3199 4.36e-03 -1.30e-03 -6.79e-03 5.18e-03 8.50e-03 -3.67e-03 -2.20e-02  
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## 3203 -3.15e-03 -5.50e-03 -1.00e-02 -9.23e-03 -1.57e-02 1.01e-02 2.66e-02  
## 3204 -1.13e-02 1.65e-03 -5.38e-03 -1.35e-03 -7.46e-03 -1.21e-03 2.95e-02  
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## 3208 1.43e-02 -1.02e-02 -7.10e-03 7.16e-03 1.16e-02 -2.77e-03 4.96e-02  
## 3209 3.86e-03 -1.53e-04 3.70e-03 -1.54e-03 3.93e-03 -1.73e-03 1.92e-02  
## 3210 1.34e-02 1.13e-02 -5.01e-03 -1.33e-02 7.26e-03 5.37e-03 4.83e-02  
## 3211 1.38e-02 -8.13e-03 -6.17e-03 8.29e-03 8.96e-03 3.12e-03 5.00e-02  
## 3212 -1.12e-02 3.63e-03 -2.27e-02 -2.05e-02 5.53e-03 -1.10e-02 -9.57e-02  
## 3213 -3.14e-03 -4.84e-03 -1.17e-02 5.02e-03 -1.65e-02 1.16e-02 2.92e-02  
## 3214 4.13e-03 -4.56e-04 3.67e-03 -2.10e-04 3.59e-03 1.93e-03 1.23e-02  
## 3215 3.46e-05 4.67e-03 1.22e-03 2.87e-03 -1.06e-03 6.35e-04 1.03e-02  
## 3216 4.73e-03 -1.85e-03 -3.95e-03 -2.97e-04 1.30e-03 -1.48e-03 -1.73e-02  
## 3217 8.46e-03 -7.30e-05 -1.21e-02 -1.52e-03 -5.96e-03 1.63e-02 5.62e-02  
## 3218 2.75e-03 1.97e-03 1.29e-02 -2.29e-02 -6.73e-03 1.31e-02 4.26e-02  
## 3219 5.98e-03 2.97e-03 1.45e-02 -1.31e-02 -4.57e-03 1.46e-02 5.95e-02  
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## 3222 -2.28e-03 -5.71e-03 4.16e-03 3.75e-03 -8.81e-03 6.38e-03 1.92e-02  
## 3223 1.22e-02 -3.39e-03 -1.14e-02 1.44e-02 -8.00e-03 3.63e-03 5.70e-02  
## 3224 -2.54e-03 2.26e-03 -4.51e-03 8.06e-03 8.19e-04 6.19e-03 3.71e-02  
## 3225 9.41e-03 -6.75e-04 2.64e-03 -2.80e-03 -7.25e-03 1.10e-02 -3.38e-02  
## 3226 5.90e-05 -7.03e-04 -1.42e-03 -5.04e-03 -2.78e-03 5.27e-03 -1.16e-02  
## 3227 -1.29e-02 -1.25e-02 1.07e-02 1.02e-02 -5.66e-03 -1.60e-02 4.15e-02  
## 3228 5.86e-04 5.73e-04 1.54e-03 2.52e-03 6.74e-04 -6.09e-04 7.29e-03  
## 3229 1.20e-02 5.97e-03 -1.41e-02 -5.81e-04 -1.61e-02 2.02e-02 8.28e-02  
## 3230 4.36e-05 1.39e-03 3.07e-04 8.36e-04 -6.00e-05 3.27e-04 2.76e-03  
## 3231 -1.29e-03 1.51e-03 -1.43e-03 8.77e-05 -1.22e-03 2.09e-03 -7.01e-03  
## 3232 1.55e-03 -2.70e-03 1.42e-02 1.69e-03 -6.56e-03 -4.25e-04 4.28e-02  
## 3233 1.15e-04 -5.72e-04 2.92e-03 2.47e-04 -8.84e-04 3.28e-03 -7.33e-03  
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## 3235 3.41e-03 -5.60e-03 -9.48e-03 1.07e-02 -4.56e-03 2.51e-03 3.60e-02  
## 3236 1.26e-02 -3.73e-03 -4.50e-02 3.05e-02 -8.02e-03 -2.02e-02 -1.15e-01  
## 3237 1.05e-02 1.97e-02 -1.79e-02 -1.38e-02 4.53e-02 -3.84e-02 -9.07e-02  
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## 3239 -2.67e-02 -3.85e-03 -1.00e-02 2.61e-03 -7.51e-03 1.90e-03 6.33e-02  
## 3240 8.30e-04 -1.64e-03 -1.19e-02 -1.02e-02 -1.26e-02 2.81e-03 4.68e-02  
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## 3242 -1.70e-02 -1.35e-03 -2.57e-02 -1.69e-02 9.20e-03 -7.32e-03 -7.93e-02  
## 3243 7.51e-04 3.02e-03 -1.17e-03 -2.39e-03 -6.92e-04 5.20e-03 1.12e-02  
## 3244 1.38e-02 -4.57e-03 2.87e-03 -2.66e-03 -6.93e-03 6.49e-03 -3.82e-02  
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## 3256 -2.24e-02 1.85e-02 1.36e-02 -9.83e-03 -2.70e-02 9.27e-03 -8.99e-02  
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## 3270 -6.81e-03 -1.77e-02 -4.60e-03 7.18e-03 5.38e-03 -1.06e-02 5.35e-02  
## 3271 2.51e-04 6.10e-03 1.09e-03 2.33e-03 -1.15e-03 2.50e-03 1.08e-02  
## 3272 1.83e-02 -5.17e-03 6.61e-03 -1.33e-03 -1.55e-02 6.09e-03 -4.17e-02  
## 3273 -5.36e-04 1.27e-03 1.57e-03 2.51e-03 -2.49e-03 2.70e-03 1.02e-02  
## 3274 -3.23e-04 3.11e-04 -2.63e-04 -3.27e-04 -3.61e-04 1.23e-04 1.54e-03  
## 3275 1.48e-03 9.17e-04 2.17e-03 -1.71e-03 1.21e-03 3.48e-04 9.77e-03  
## 3276 -1.82e-03 -3.18e-03 -1.80e-03 -1.93e-03 -1.40e-03 1.77e-03 -1.06e-02  
## 3277 -2.24e-03 2.37e-02 -5.43e-03 6.82e-03 1.02e-02 6.48e-03 4.54e-02  
## 3278 -1.94e-03 -7.67e-04 1.22e-02 -7.86e-03 -1.12e-03 6.72e-03 2.80e-02  
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## 3280 2.68e-02 -1.09e-02 -5.39e-03 8.66e-03 8.60e-03 4.54e-03 5.87e-02  
## 3281 6.40e-03 -3.20e-03 4.50e-03 -1.17e-04 1.04e-03 5.00e-04 -1.79e-02  
## 3282 1.04e-02 5.63e-03 1.56e-03 -6.69e-03 1.83e-03 -3.42e-03 -5.02e-02  
## 3283 8.07e-03 -1.59e-02 7.45e-03 -6.60e-03 -2.10e-02 1.59e-02 -6.74e-02  
## 3284 2.15e-04 4.45e-03 7.42e-04 1.73e-03 -6.05e-04 2.10e-03 7.81e-03  
## 3285 2.03e-02 -1.26e-02 -4.10e-03 -1.81e-02 3.05e-03 2.91e-03 6.10e-02  
## 3286 7.75e-03 -2.40e-03 1.06e-02 9.69e-03 -1.00e-03 7.15e-03 5.29e-02  
## 3287 1.24e-03 -6.02e-03 3.90e-03 1.22e-03 1.86e-04 -7.27e-04 1.62e-02  
## 3288 -2.37e-02 2.08e-03 -9.62e-03 -1.71e-02 -1.61e-02 1.51e-03 8.24e-02  
## 3289 -3.73e-02 2.39e-03 -1.14e-02 1.48e-03 -2.10e-02 -4.95e-03 7.03e-02  
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## 3294 -2.36e-03 -5.34e-03 4.31e-03 3.73e-03 -1.00e-02 8.03e-03 2.06e-02  
## 3295 -1.07e-04 -1.84e-03 -1.31e-03 -2.01e-04 -1.74e-03 4.20e-03 1.04e-02  
## 3296 -2.94e-04 -6.30e-04 9.17e-04 1.90e-03 -3.60e-04 -5.02e-04 4.85e-03  
## 3297 -1.06e-02 -1.02e-02 6.41e-03 -6.42e-04 -1.32e-02 -5.20e-04 -4.11e-02  
## 3298 9.00e-03 -1.77e-02 7.35e-03 -9.24e-03 -9.38e-03 1.62e-02 -6.28e-02  
## 3299 -1.11e-02 -5.40e-03 -2.48e-02 2.79e-02 -1.89e-02 1.07e-02 -6.57e-02  
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## 3302 1.52e-02 -1.29e-03 -1.12e-02 2.80e-03 2.83e-02 -1.76e-02 7.55e-02  
## 3303 -2.20e-03 3.06e-03 2.92e-03 1.65e-03 -8.64e-04 -8.09e-05 1.05e-02  
## 3304 1.85e-04 1.02e-02 2.20e-03 4.21e-03 -3.19e-03 2.97e-03 1.97e-02  
## 3305 -4.74e-04 2.02e-04 1.48e-03 -2.15e-03 -1.85e-03 9.37e-04 6.47e-03  
## 3306 -1.72e-02 -6.30e-03 -2.06e-02 -1.71e-04 -1.50e-02 6.22e-03 -5.10e-02  
## 3307 7.86e-03 -1.25e-02 -5.90e-03 5.05e-03 -1.63e-03 -7.37e-03 4.15e-02  
## 3308 -2.46e-03 -4.67e-03 4.30e-03 3.30e-03 -1.07e-02 9.13e-03 2.16e-02  
## 3309 -2.52e-03 -4.52e-03 3.98e-03 -2.75e-03 -1.09e-02 9.01e-03 2.00e-02  
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## 3311 -1.25e-03 -2.55e-03 -1.74e-03 -6.47e-03 -6.90e-03 7.97e-03 2.66e-02  
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## 3314 -1.72e-02 4.12e-03 -2.37e-02 -2.00e-02 1.37e-03 -1.85e-02 -9.74e-02  
## 3315 3.08e-02 2.42e-03 1.44e-02 -2.29e-04 1.69e-02 1.13e-02 -7.72e-02  
## 3316 -2.84e-02 -5.42e-03 -1.03e-02 -8.78e-03 -1.57e-02 -9.67e-04 6.06e-02  
## 3317 -1.39e-05 -2.89e-04 -4.04e-04 -1.13e-03 -2.34e-04 1.01e-03 -2.64e-03  
## 3318 1.49e-02 -4.71e-03 3.09e-03 -2.37e-03 -5.83e-03 5.87e-03 -3.69e-02  
## 3319 -1.39e-03 -6.62e-03 2.40e-03 3.41e-03 -2.72e-03 -2.36e-04 1.31e-02  
## 3320 2.13e-02 5.13e-03 2.60e-02 9.94e-04 3.43e-02 -1.05e-02 7.05e-02  
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## 3322 -3.42e-02 -7.13e-03 2.11e-02 1.05e-02 2.41e-02 1.97e-02 -1.36e-01  
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## 3324 1.93e-02 1.38e-02 -1.30e-02 8.86e-04 3.03e-02 -2.57e-04 5.79e-02  
## 3325 4.04e-03 -6.49e-03 -9.26e-03 1.19e-02 -4.21e-03 2.14e-03 4.09e-02  
## 3326 9.73e-03 2.17e-02 3.24e-03 -1.26e-02 1.19e-02 -7.97e-03 -7.24e-02  
## 3327 -6.87e-03 -6.29e-03 -2.39e-02 -1.73e-02 4.94e-03 -1.97e-02 -7.13e-02  
## 3328 -7.84e-06 1.81e-03 3.22e-04 -1.78e-03 -5.39e-04 1.07e-03 3.76e-03  
## 3329 9.51e-03 1.76e-02 3.73e-03 -1.11e-02 2.82e-03 2.06e-03 -6.20e-02  
## 3330 -3.26e-03 -7.93e-03 5.61e-03 -1.41e-03 -1.25e-02 4.53e-03 2.54e-02  
## 3331 -4.99e-05 -1.05e-03 -9.18e-04 -3.03e-03 -1.49e-03 2.54e-03 -6.87e-03  
## 3332 1.97e-02 1.11e-02 -1.15e-02 3.82e-03 2.48e-02 -3.63e-03 6.35e-02  
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## 3342 7.72e-05 1.86e-03 3.88e-04 1.02e-03 -1.25e-05 4.33e-04 3.54e-03  
## 3343 -9.08e-04 5.51e-04 -1.82e-03 8.52e-03 -7.36e-03 1.54e-02 3.92e-02  
## 3344 7.34e-03 1.44e-03 3.21e-03 -3.62e-03 -6.34e-03 1.56e-02 -4.05e-02  
## 3345 -4.95e-03 -8.67e-03 2.04e-02 -1.69e-02 1.57e-02 -2.08e-02 -6.72e-02  
## 3346 -5.82e-03 1.52e-02 2.33e-02 -2.91e-02 1.39e-02 6.48e-03 -9.96e-02  
## 3347 1.38e-02 -5.48e-03 4.19e-03 -1.01e-02 -1.12e-02 9.17e-03 -3.48e-02  
## 3348 -2.94e-02 2.58e-03 -8.77e-03 -1.35e-02 2.08e-02 -1.64e-02 8.16e-02  
## 3349 -3.37e-03 -1.51e-03 2.41e-03 -2.49e-03 1.40e-03 -1.55e-03 1.09e-02  
## 3350 3.81e-04 2.34e-04 2.57e-04 1.33e-05 2.38e-04 2.17e-04 9.12e-04  
## 3351 -6.09e-03 -2.33e-04 -2.41e-02 -2.00e-02 8.89e-03 -1.40e-02 -8.62e-02  
## 3352 4.18e-02 6.84e-03 -2.40e-02 1.36e-03 1.12e-02 -6.95e-04 -9.88e-02  
## 3353 1.02e-03 -5.74e-03 3.93e-03 4.99e-03 -2.67e-04 -1.21e-03 1.63e-02  
## 3354 -2.74e-03 -8.31e-03 -8.71e-03 5.72e-03 -9.57e-03 2.01e-03 2.12e-02  
## 3355 -2.47e-02 1.59e-03 8.13e-03 -3.04e-03 -1.48e-02 1.07e-02 -5.52e-02  
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## 3361 -5.06e-03 1.50e-02 -8.50e-03 7.70e-03 1.37e-02 -3.10e-03 5.84e-02  
## 3362 -1.07e-03 1.39e-03 -1.24e-03 2.11e-03 -1.29e-03 -5.58e-04 5.11e-03  
## 3363 -1.09e-02 7.98e-03 -6.36e-03 8.45e-03 5.62e-03 2.51e-03 4.59e-02  
## 3364 1.15e-03 6.01e-04 -1.23e-02 2.50e-03 -1.70e-02 1.72e-03 6.27e-02  
## 3365 -9.81e-03 -1.19e-02 -4.65e-03 -6.07e-03 -2.30e-03 -6.12e-03 2.97e-02  
## 3366 1.13e-02 3.16e-02 3.98e-02 -2.14e-02 4.69e-02 -2.48e-02 -1.02e-01  
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## 3371 -2.89e-03 -5.63e-03 -1.10e-02 4.46e-03 -1.47e-02 1.12e-02 2.94e-02  
## 3372 8.66e-05 -3.79e-04 -1.01e-03 9.80e-05 -5.56e-04 2.87e-03 -6.04e-03  
## 3373 4.14e-03 -1.39e-03 -6.15e-03 -1.15e-02 3.14e-03 -9.53e-05 -2.56e-02  
## 3374 -2.46e-03 -4.94e-03 4.20e-03 3.47e-03 -1.07e-02 8.90e-03 2.11e-02  
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## 3376 -3.89e-03 -1.47e-03 -3.42e-03 -4.86e-03 -3.96e-03 -1.18e-03 1.51e-02  
## 3377 9.68e-05 1.35e-04 -1.80e-03 7.67e-05 -1.54e-03 5.37e-03 -1.10e-02  
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## 3379 -1.72e-02 -1.91e-03 1.18e-02 -2.25e-03 -2.15e-02 5.47e-03 -6.13e-02  
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## 3381 -3.73e-03 -1.31e-03 -2.00e-03 1.87e-03 -1.76e-03 -3.59e-04 9.42e-03  
## 3382 -2.22e-03 -5.85e-03 4.32e-03 4.00e-03 -9.08e-03 6.78e-03 1.96e-02  
## 3383 1.10e-03 -4.76e-03 -2.11e-03 3.93e-03 -9.27e-04 -9.84e-04 1.12e-02  
## 3384 1.96e-02 1.47e-02 -1.39e-02 1.99e-02 3.32e-02 -2.48e-03 6.20e-02  
## 3385 1.32e-04 6.01e-04 -3.80e-04 1.89e-04 -9.83e-06 7.52e-04 -1.97e-03  
## 3386 -2.48e-03 -5.09e-03 3.86e-03 3.27e-03 -9.85e-03 7.53e-03 1.94e-02  
## 3387 2.33e-03 -3.29e-04 -4.30e-03 7.50e-03 2.04e-03 -1.31e-03 1.91e-02  
## 3388 2.06e-03 8.68e-03 -3.01e-03 -6.01e-03 5.92e-04 1.10e-02 2.59e-02  
## 3389 1.98e-03 6.00e-03 6.45e-03 2.19e-03 -1.82e-05 -2.38e-03 2.54e-02  
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## 3391 -1.94e-03 -1.00e-03 6.19e-03 -9.54e-04 2.82e-03 3.77e-03 1.83e-02  
## 3392 1.45e-03 -1.49e-03 2.08e-03 -2.30e-03 3.31e-03 -1.33e-03 -8.32e-03  
## 3393 -4.93e-03 -1.18e-03 -3.78e-03 -1.83e-04 1.64e-03 3.53e-03 2.30e-02  
## 3394 -4.52e-03 9.57e-03 -5.18e-03 -1.62e-03 -5.80e-03 1.81e-05 2.53e-02  
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## 3402 -4.63e-05 2.53e-04 -6.04e-04 -4.39e-04 4.33e-06 -8.30e-04 2.19e-03  
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## 3406 1.20e-02 1.76e-02 4.87e-04 -1.35e-02 1.21e-02 -1.62e-02 -7.44e-02  
## 3407 2.13e-03 1.08e-02 2.34e-03 3.80e-03 3.29e-03 -1.50e-03 1.98e-02  
## 3408 -1.30e-02 -1.24e-02 -6.16e-03 -9.11e-03 9.12e-03 1.75e-03 6.18e-02  
## 3409 1.73e-03 1.73e-03 1.01e-03 2.21e-03 2.24e-03 -1.20e-03 6.73e-03  
## 3410 -5.30e-02 1.33e-03 1.29e-02 -2.45e-02 -1.48e-02 -3.47e-02 -1.18e-01  
## 3411 -2.20e-02 -8.29e-03 -1.15e-02 1.35e-02 -1.07e-02 -6.97e-03 6.23e-02  
## 3412 2.03e-03 -5.30e-03 8.88e-03 -1.37e-02 -1.46e-03 -4.79e-04 3.46e-02  
## 3413 -4.35e-03 -1.49e-02 1.39e-02 5.62e-03 -3.09e-03 4.13e-03 3.57e-02  
## 3414 4.12e-03 2.25e-03 -1.17e-03 3.15e-03 2.33e-03 2.32e-03 9.02e-03  
## 3415 5.84e-03 -8.40e-03 -7.11e-03 -1.54e-02 -1.46e-02 -5.34e-03 4.75e-02  
## 3416 -2.68e-03 -1.48e-03 1.19e-03 1.11e-03 -9.14e-04 -1.88e-03 -6.29e-03  
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## 3418 -4.09e-03 3.68e-03 -2.21e-02 -1.95e-02 1.51e-03 -1.08e-02 -9.78e-02  
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## 3421 -1.26e-02 -9.34e-03 9.15e-03 -8.86e-05 -2.01e-02 3.24e-04 -3.88e-02  
## 3422 -1.81e-02 -5.03e-03 -5.33e-03 8.93e-03 1.05e-02 -1.37e-02 7.60e-02  
## 3423 -3.82e-02 3.00e-02 8.37e-03 2.54e-02 1.02e-02 -7.81e-03 -1.05e-01  
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## 3425 -3.79e-03 -5.79e-04 5.34e-03 2.80e-03 5.68e-03 7.57e-04 2.09e-02  
## 3426 7.62e-03 6.47e-03 3.80e-03 -5.97e-03 -5.56e-03 1.16e-02 -4.68e-02  
## 3427 1.38e-03 -1.74e-03 2.25e-03 -2.25e-04 3.92e-03 -2.52e-03 -9.19e-03  
## 3428 -2.50e-03 -8.85e-04 -3.66e-03 5.49e-03 -2.71e-03 4.82e-03 2.56e-02  
## 3429 3.33e-03 7.93e-03 -9.06e-03 7.98e-03 -3.30e-05 2.10e-04 2.81e-02  
## 3430 1.91e-02 1.32e-02 -1.24e-02 -1.86e-02 2.96e-02 5.30e-04 6.05e-02  
## 3431 -9.32e-04 8.78e-04 -5.20e-03 -6.64e-03 -4.53e-03 1.68e-03 1.24e-02  
## 3432 3.39e-03 6.13e-03 -6.20e-03 -2.45e-03 -3.65e-03 8.39e-04 2.90e-02  
## 3433 9.92e-03 1.37e-03 3.04e-03 -4.01e-03 -6.56e-03 9.00e-03 -4.12e-02  
## 3434 -1.98e-03 -4.82e-02 9.93e-03 2.56e-02 2.17e-02 -6.00e-02 -1.27e-01  
## 3435 2.50e-03 -1.07e-03 3.33e-03 -3.96e-04 4.46e-03 -8.65e-04 -1.17e-02  
## 3436 2.27e-03 1.54e-03 -4.95e-03 5.97e-03 -7.26e-05 -2.29e-03 1.75e-02  
## 3437 -7.89e-03 -1.84e-02 -6.08e-03 -7.79e-03 8.24e-03 -1.18e-02 5.90e-02  
## 3438 1.53e-02 2.12e-03 -5.16e-03 -2.51e-03 3.14e-03 -2.55e-03 3.83e-02  
## 3439 5.51e-03 2.15e-03 5.04e-03 8.29e-03 5.01e-03 -1.97e-03 2.84e-02  
## 3440 -5.38e-03 3.13e-03 -4.05e-03 8.58e-03 3.65e-03 -1.26e-03 4.33e-02  
## 3441 -2.71e-03 -2.73e-04 -3.92e-03 5.95e-03 -3.01e-03 5.42e-03 2.77e-02  
## 3442 1.35e-02 1.18e-02 1.65e-02 -4.44e-03 1.71e-02 2.58e-03 4.24e-02  
## 3443 4.67e-02 1.54e-02 -2.79e-02 2.21e-02 5.61e-03 1.25e-03 -1.06e-01  
## 3444 2.06e-02 3.12e-03 -4.76e-03 -1.51e-03 4.55e-03 5.25e-03 3.84e-02  
## 3445 -1.36e-03 4.09e-04 -2.14e-03 8.63e-03 -7.54e-03 1.36e-02 3.61e-02  
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## 3447 3.66e-03 6.11e-03 -1.37e-02 1.16e-02 -9.81e-03 1.37e-02 4.55e-02  
## 3448 -5.00e-04 -1.75e-03 -3.26e-03 7.79e-03 -3.79e-03 1.42e-02 3.38e-02  
## 3449 8.30e-03 -8.63e-03 -9.90e-03 1.67e-02 -4.15e-03 -2.75e-03 6.62e-02  
## 3450 8.93e-03 -4.06e-03 3.53e-03 -5.98e-04 -1.21e-02 1.17e-02 -3.38e-02  
## 3451 3.15e-04 -3.23e-04 4.92e-04 -9.54e-04 5.20e-04 -1.65e-04 -2.19e-03  
## 3452 -3.28e-03 -4.60e-03 -1.17e-02 4.74e-03 -1.70e-02 1.21e-02 2.93e-02  
## 3453 1.28e-02 7.25e-03 4.50e-03 2.44e-02 -8.51e-03 1.71e-03 -5.76e-02  
## 3454 3.14e-05 6.46e-03 -5.95e-03 4.59e-03 -2.41e-03 1.97e-04 1.51e-02  
## 3455 -3.15e-03 -1.97e-02 -3.75e-03 -2.74e-03 9.44e-04 3.73e-03 4.72e-02  
## 3456 1.05e-04 -9.68e-04 5.16e-04 3.35e-04 -5.23e-06 -1.90e-04 2.10e-03  
## 3457 1.58e-02 -4.33e-03 4.96e-03 -1.21e-02 -1.19e-02 8.67e-03 -3.91e-02  
## 3458 2.33e-02 -1.16e-02 -6.95e-03 7.58e-03 9.08e-03 -9.59e-04 6.06e-02  
## 3459 -2.11e-02 -7.65e-03 -5.92e-03 -2.09e-02 8.71e-03 -5.06e-04 6.25e-02  
## 3460 3.80e-03 4.50e-03 -1.27e-02 -8.48e-04 -9.38e-03 1.32e-02 4.20e-02  
## 3461 8.12e-05 -1.24e-04 1.60e-03 -2.51e-05 -2.01e-04 2.15e-03 -4.55e-03  
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## 3463 -2.13e-03 -5.20e-03 3.35e-03 2.96e-03 -8.92e-03 8.14e-03 2.09e-02  
## 3464 -1.91e-02 4.14e-03 -4.52e-03 6.17e-03 1.65e-02 -1.34e-02 8.70e-02  
## 3465 1.76e-03 -2.67e-03 -1.11e-02 -9.07e-03 -5.38e-03 4.75e-03 3.91e-02  
## 3466 -3.51e-04 -5.30e-04 1.42e-03 2.63e-03 -5.95e-04 -7.13e-04 6.51e-03  
## 3467 -5.91e-03 -1.79e-02 2.44e-02 8.96e-03 -6.40e-03 7.17e-03 5.50e-02  
## 3468 7.15e-03 3.09e-02 5.03e-03 2.52e-02 3.90e-03 -1.62e-03 -8.18e-02  
## 3469 7.64e-03 -1.18e-02 -3.65e-03 6.60e-03 9.33e-04 5.82e-03 3.69e-02  
## 3470 -5.40e-04 3.59e-03 2.08e-03 2.70e-03 -4.68e-03 6.63e-03 1.60e-02  
## 3471 -3.44e-03 1.81e-03 -3.46e-03 8.35e-03 -4.00e-03 1.56e-02 4.46e-02  
## 3472 1.80e-02 2.43e-03 -1.01e-02 5.91e-03 1.92e-02 2.72e-04 5.53e-02  
## 3473 -1.48e-02 8.18e-03 -1.04e-02 4.56e-03 -1.36e-02 -8.10e-03 5.07e-02  
## 3474 -6.03e-03 -6.79e-03 1.96e-02 -1.87e-02 1.36e-02 -1.96e-02 -6.75e-02  
## 3475 1.31e-04 -3.84e-04 -2.00e-03 2.49e-04 -2.71e-03 6.75e-03 -1.36e-02  
## 3476 3.56e-03 2.53e-03 1.70e-02 -1.77e-04 -8.43e-03 9.47e-03 5.01e-02  
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## 3478 1.45e-02 -4.94e-03 2.02e-02 3.86e-03 2.08e-02 -1.06e-02 5.66e-02  
## 3479 -2.07e-02 -1.14e-02 -7.32e-03 8.37e-03 7.00e-03 -2.08e-05 6.65e-02  
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## 3481 1.30e-02 3.36e-03 1.16e-02 -9.82e-03 6.08e-03 2.63e-03 3.40e-02  
## 3482 1.67e-05 -1.58e-03 -1.37e-03 3.44e-03 -9.97e-04 2.25e-03 -8.75e-03  
## 3483 -3.19e-02 -1.75e-03 1.95e-02 1.49e-02 -1.05e-02 7.29e-04 6.29e-02  
## 3484 -1.02e-02 1.12e-03 -6.84e-03 -3.31e-03 -9.79e-03 -1.20e-02 3.64e-02  
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## 3486 5.09e-03 -3.20e-04 -3.20e-03 2.38e-03 -2.37e-03 -1.26e-03 1.59e-02  
## 3487 6.31e-03 3.55e-03 1.46e-02 9.92e-03 -2.93e-03 1.44e-02 5.60e-02  
## 3488 3.62e-03 5.14e-03 -1.20e-02 -2.66e-02 -1.11e-02 1.48e-02 4.96e-02  
## 3489 -1.85e-02 -1.17e-03 4.72e-03 2.08e-02 -1.14e-02 6.24e-03 -5.23e-02  
## 3490 -8.27e-03 -9.06e-03 4.52e-03 -8.93e-04 -9.06e-03 3.24e-03 -3.54e-02  
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## 3495 -7.32e-03 2.64e-03 -4.72e-03 8.01e-03 1.64e-03 7.36e-03 3.68e-02  
## 3496 -6.36e-04 -3.11e-04 4.32e-04 -7.06e-04 1.16e-04 9.96e-06 -1.73e-03  
## 3497 -7.40e-03 3.07e-04 -7.63e-03 4.75e-03 -2.68e-03 -4.26e-03 3.87e-02  
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## 3499 2.15e-04 -6.04e-06 -2.35e-03 4.53e-03 -3.41e-03 7.59e-03 -1.63e-02  
## 3500 8.35e-03 3.44e-03 -1.29e-02 -8.19e-04 -6.28e-03 2.02e-02 5.61e-02  
## 3501 1.68e-02 -5.76e-03 -1.22e-02 5.78e-03 1.60e-02 -1.26e-02 6.75e-02  
## 3502 -2.43e-03 -5.15e-03 4.04e-03 3.40e-03 -9.80e-03 7.63e-03 1.99e-02  
## 3503 2.16e-05 2.60e-04 -1.82e-04 -2.69e-04 -1.23e-04 4.59e-04 1.12e-03  
## 3504 3.64e-03 6.09e-03 -1.37e-02 1.16e-02 -9.86e-03 1.37e-02 4.55e-02  
## 3505 1.95e-02 1.01e-02 -1.14e-02 4.18e-03 2.52e-02 -4.94e-03 6.30e-02  
## 3506 -1.51e-05 2.89e-04 1.93e-04 5.07e-04 5.87e-05 -4.14e-04 1.29e-03  
## 3507 -9.97e-04 -1.99e-03 2.68e-03 -4.06e-03 -2.65e-03 -2.98e-03 1.31e-02  
## 3508 -1.63e-03 -5.54e-03 2.93e-03 -8.98e-03 -6.30e-03 4.62e-03 1.66e-02  
## 3509 6.19e-04 4.31e-03 -3.10e-03 3.51e-03 1.87e-03 4.06e-03 1.61e-02  
## 3510 3.61e-04 -3.48e-03 -8.53e-03 -6.62e-03 -5.85e-03 -1.50e-03 3.22e-02  
## 3511 -4.42e-03 -6.71e-03 2.08e-02 1.99e-03 1.89e-02 -2.24e-02 -6.73e-02  
## 3512 3.99e-03 3.13e-02 1.91e-02 3.27e-02 1.09e-02 -3.94e-02 -1.40e-01  
## 3513 -2.53e-03 -4.63e-03 4.08e-03 3.16e-03 -1.08e-02 9.02e-03 2.11e-02  
## 3514 2.81e-02 -9.98e-03 -3.69e-03 1.00e-02 2.40e-03 7.56e-03 6.96e-02  
## 3515 -2.00e-03 -6.94e-03 3.68e-03 4.39e-03 -6.90e-03 3.03e-03 1.88e-02  
## 3516 -5.78e-04 6.96e-04 -1.45e-03 -1.21e-03 -5.91e-04 7.27e-04 -6.30e-03  
## 3517 -1.14e-04 -2.78e-04 2.89e-04 -3.42e-04 -1.55e-04 -1.87e-04 1.39e-03  
## 3518 -1.30e-04 -1.02e-03 -2.34e-03 -6.79e-05 9.41e-05 -2.34e-03 -6.32e-03  
## 3519 1.56e-02 -4.18e-03 2.95e-03 6.98e-03 -5.42e-03 5.33e-03 -3.94e-02  
## 3520 -3.66e-02 2.02e-02 4.11e-03 -1.52e-02 8.53e-03 -8.02e-03 -8.49e-02  
## 3521 -8.76e-03 -1.45e-03 -2.50e-02 6.01e-04 1.54e-02 -9.74e-03 -9.26e-02  
## 3522 -1.04e-02 -8.00e-03 6.63e-03 2.20e-02 -1.21e-02 2.65e-03 -4.95e-02  
## 3523 1.17e-02 3.06e-02 3.80e-02 -2.21e-02 4.57e-02 -1.74e-02 -9.09e-02  
## 3524 2.25e-02 1.21e-02 -1.31e-02 2.77e-03 2.16e-02 -1.06e-02 9.26e-02  
## 3525 1.36e-02 -1.21e-02 -9.97e-03 1.63e-02 -1.42e-02 -1.02e-02 6.08e-02  
## 3526 -6.56e-04 1.30e-03 1.87e-03 -3.36e-03 -3.24e-03 2.66e-03 9.23e-03  
## 3527 4.04e-02 9.45e-03 1.81e-02 -4.16e-03 2.06e-02 5.85e-04 -8.48e-02  
## 3528 -1.07e-03 5.21e-03 -9.23e-03 4.63e-03 -8.21e-03 6.53e-03 2.01e-02  
## 3529 1.41e-02 3.91e-03 1.58e-02 3.52e-02 -1.86e-02 -2.75e-03 -1.31e-01  
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## 3536 7.56e-03 -1.21e-02 9.14e-03 -8.58e-03 7.01e-04 -2.49e-03 3.68e-02  
## 3537 -8.19e-03 1.14e-04 -6.11e-03 -2.76e-03 8.59e-05 -4.74e-03 2.72e-02  
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## 3539 -3.31e-02 1.57e-02 -3.30e-02 -9.11e-03 -1.19e-02 1.13e-02 -8.50e-02  
## 3540 -9.13e-03 -1.68e-02 -2.77e-03 1.05e-02 2.40e-04 1.06e-02 5.84e-02  
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## 3543 -1.67e-03 -1.56e-03 3.20e-03 -5.85e-05 1.97e-03 2.49e-03 1.08e-02  
## 3544 -5.09e-03 -3.95e-03 6.43e-03 4.82e-03 -1.22e-03 1.30e-03 -2.04e-02  
## 3545 1.08e-02 1.86e-02 6.13e-03 -7.91e-03 -1.38e-02 2.97e-03 -7.30e-02  
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## 3547 -1.36e-03 3.95e-03 -1.84e-03 -2.40e-03 5.89e-04 4.10e-03 1.19e-02  
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## 3549 1.85e-02 5.96e-03 -1.26e-02 2.02e-03 3.12e-02 9.21e-04 6.75e-02  
## 3550 -2.12e-02 2.32e-04 5.01e-03 -4.16e-03 -1.10e-02 3.80e-03 -4.58e-02  
## 3551 -6.11e-04 2.41e-03 1.68e-03 2.37e-03 -3.75e-03 4.75e-03 1.27e-02  
## 3552 -1.60e-02 -1.47e-02 -6.92e-03 -1.77e-02 -1.63e-02 -1.11e-02 6.68e-02  
## 3553 -9.64e-03 1.36e-02 2.48e-02 -2.27e-02 1.49e-02 -6.97e-04 6.32e-02  
## 3554 -5.02e-06 1.30e-03 3.45e-04 -6.39e-04 -1.66e-04 1.90e-04 2.39e-03  
## 3555 2.89e-03 2.78e-04 1.22e-02 9.77e-03 -3.68e-03 9.11e-03 3.68e-02  
## 3556 -2.02e-02 1.05e-02 1.00e-02 -7.77e-03 -2.10e-02 4.61e-03 -7.01e-02  
## 3557 1.63e-02 -6.09e-03 2.86e-03 -1.84e-03 -6.13e-03 1.24e-02 -4.25e-02  
## 3558 -2.73e-02 -7.69e-03 -7.28e-03 -8.48e-03 6.72e-03 -7.51e-03 7.82e-02  
## 3559 -6.46e-03 1.35e-03 1.10e-02 -1.07e-03 4.61e-03 7.98e-03 3.00e-02  
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## 3563 -1.46e-02 -1.28e-02 -4.46e-03 -2.54e-02 1.20e-02 -2.12e-02 7.29e-02  
## 3564 -6.66e-04 1.56e-03 1.97e-03 2.95e-03 -2.79e-03 2.16e-03 1.01e-02  
## 3565 1.15e-04 3.33e-03 5.66e-04 1.40e-03 -3.43e-04 1.28e-03 5.93e-03  
## 3566 -1.89e-02 -1.15e-02 -8.26e-03 5.22e-03 -7.91e-03 -1.66e-03 4.55e-02  
## 3567 -2.35e-02 -5.15e-03 -6.36e-03 7.87e-03 9.98e-03 6.59e-03 7.11e-02  
## 3568 -1.95e-03 -7.76e-03 -5.60e-03 -7.47e-03 -6.38e-03 7.72e-04 1.68e-02  
## 3569 -3.18e-03 -4.58e-03 -1.19e-02 4.91e-03 -1.69e-02 1.22e-02 2.97e-02  
## 3570 -8.78e-03 -1.94e-02 -4.46e-03 6.69e-03 -1.92e-03 -5.91e-03 4.68e-02  
## 3571 -2.20e-05 -1.05e-04 -7.74e-05 -5.58e-05 -2.39e-05 -1.29e-04 2.81e-04  
## 3572 5.10e-02 -1.17e-02 2.61e-02 -4.08e-02 1.02e-02 6.48e-03 -1.26e-01  
## 3573 3.82e-03 -7.49e-03 6.48e-03 7.24e-03 -2.32e-03 -2.86e-03 2.44e-02  
## 3574 1.82e-02 -1.31e-02 -8.21e-03 8.48e-03 1.22e-02 3.06e-03 5.57e-02  
## 3575 2.84e-02 2.17e-02 1.74e-02 -2.29e-02 2.00e-02 1.96e-02 -1.01e-01  
## 3576 -1.00e-02 -2.56e-03 -5.72e-03 5.16e-04 -2.75e-04 1.82e-03 -2.54e-02  
## 3577 3.33e-02 1.07e-02 -1.01e-02 1.86e-03 2.95e-02 -1.21e-02 7.44e-02  
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## 3581 -1.90e-02 1.80e-02 -2.29e-02 -2.25e-02 -1.66e-03 -3.12e-03 -1.23e-01  
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## 3583 -3.19e-02 -3.69e-03 -1.12e-02 -1.11e-02 -2.19e-02 -1.12e-02 7.44e-02  
## 3584 -2.05e-02 -1.10e-02 1.33e-02 -1.48e-02 -8.08e-03 1.92e-03 4.58e-02  
## 3585 -4.43e-04 -1.26e-03 -2.28e-03 -2.23e-03 -9.68e-04 -1.72e-03 6.50e-03  
## 3586 -1.42e-02 1.42e-03 1.33e-02 -2.94e-03 -3.20e-02 2.99e-02 -8.34e-02  
## 3587 -5.74e-03 -8.62e-03 1.89e-02 1.52e-03 1.51e-02 -2.14e-02 -6.42e-02  
## 3588 -1.42e-02 -6.84e-03 9.78e-03 -1.55e-02 -2.27e-02 4.95e-04 -4.39e-02  
## 3589 -2.56e-02 -8.41e-04 1.86e-02 -1.94e-04 -3.41e-03 5.81e-03 6.47e-02  
## 3590 -1.10e-02 -9.94e-03 6.03e-03 2.30e-02 -1.23e-02 -1.74e-03 -4.88e-02  
## 3591 -1.15e-03 2.22e-03 -2.58e-02 9.67e-04 7.59e-03 2.94e-03 -9.35e-02  
## 3592 -1.12e-02 -1.44e-02 -5.47e-03 -9.17e-03 1.42e-02 -1.10e-02 7.06e-02  
## 3593 3.65e-03 6.43e-03 1.74e-02 -1.89e-03 -9.05e-03 1.42e-02 5.59e-02  
## 3594 2.89e-03 -6.52e-03 3.34e-03 4.37e-03 -2.11e-03 -2.89e-03 1.35e-02  
## 3595 -2.52e-02 2.55e-02 9.69e-03 -1.70e-02 -6.13e-03 9.94e-04 -1.00e-01  
## 3596 -1.74e-04 -1.15e-03 3.10e-04 -1.47e-04 -1.20e-04 -5.39e-04 1.67e-03  
## 3597 1.85e-03 -8.46e-03 -5.69e-03 -8.46e-03 -7.71e-03 -3.50e-03 2.91e-02  
## 3598 -6.69e-03 -5.36e-03 -2.41e-02 -1.77e-02 5.40e-03 -1.95e-02 -7.20e-02  
## 3599 -9.15e-04 -4.79e-03 1.47e-03 4.67e-04 -1.38e-03 -1.22e-03 7.33e-03  
## 3600 1.59e-03 -6.09e-03 -6.83e-03 3.23e-03 -4.77e-03 9.71e-06 3.00e-02  
## 3601 5.20e-04 -1.14e-03 -3.11e-03 8.84e-03 -1.79e-03 1.55e-02 3.77e-02  
## 3602 2.65e-03 4.58e-03 4.32e-03 5.77e-03 2.16e-03 -8.48e-05 1.99e-02  
## 3603 -2.28e-02 1.46e-02 -3.29e-02 -1.02e-02 -2.60e-02 -8.96e-03 -7.58e-02  
## 3604 -1.87e-03 1.22e-03 -3.32e-03 7.70e-03 -3.22e-03 1.02e-02 3.40e-02  
## 3605 8.01e-03 1.86e-03 2.84e-03 1.72e-02 -5.41e-03 1.45e-02 -4.27e-02  
## 3606 -1.94e-03 1.96e-02 -5.08e-03 -3.23e-03 9.91e-03 2.27e-03 3.95e-02  
## 3607 1.70e-02 5.07e-04 -1.00e-02 5.68e-03 1.76e-02 7.73e-04 5.29e-02  
## 3608 -8.42e-03 5.57e-04 -5.96e-03 -1.21e-02 -6.37e-03 -3.46e-03 5.33e-02  
## 3609 5.11e-04 -2.99e-04 -1.26e-03 1.03e-03 -5.94e-04 8.59e-04 -5.36e-03  
## 3610 1.09e-02 1.10e-02 -2.88e-02 -6.76e-03 -6.75e-03 1.80e-02 -7.17e-02  
## 3611 -3.57e-03 -6.79e-04 4.79e-03 -1.04e-04 1.62e-03 2.96e-03 1.60e-02  
## 3612 1.81e-02 7.21e-03 9.07e-03 -4.02e-03 2.08e-02 1.14e-03 -8.05e-02  
## 3613 1.11e-03 -8.27e-03 6.88e-03 3.30e-03 -2.19e-03 -1.59e-03 2.35e-02  
## 3614 5.06e-03 -1.71e-04 -7.89e-03 6.83e-03 4.88e-03 -2.91e-03 -2.79e-02  
## 3615 1.46e-02 -1.39e-02 -6.75e-03 5.19e-03 -9.61e-03 -7.37e-03 6.04e-02  
## 3616 -1.25e-02 -6.23e-03 1.99e-02 -1.64e-02 9.59e-03 -3.59e-02 -9.28e-02  
## 3617 3.78e-03 -8.17e-04 -6.62e-03 -2.98e-04 6.43e-03 -3.98e-03 -2.04e-02  
## 3618 1.70e-02 -5.53e-03 -6.21e-03 -2.11e-02 1.48e-02 6.78e-03 6.46e-02  
## 3619 -1.08e-02 -1.67e-02 -2.76e-03 -5.79e-04 -5.49e-03 1.05e-02 5.14e-02  
## 3620 1.09e-04 -1.90e-04 -1.97e-03 4.89e-05 -2.77e-03 6.81e-03 -1.33e-02  
## 3621 1.53e-03 -6.60e-03 -5.77e-03 -1.05e-02 -3.71e-03 -3.71e-04 2.96e-02  
## 3622 -6.31e-04 1.79e-03 2.18e-03 3.22e-03 -3.08e-03 2.64e-03 1.10e-02  
## 3623 9.80e-03 -9.60e-03 -1.06e-02 1.11e-02 -7.55e-03 -1.04e-02 4.76e-02  
## 3624 -3.77e-06 1.12e-02 -8.28e-03 4.91e-03 -4.53e-03 2.96e-03 2.21e-02  
## 3625 1.09e-02 2.47e-02 -2.13e-02 6.39e-02 5.01e-02 -4.07e-02 -1.10e-01  
## 3626 -2.04e-03 -6.45e-03 2.02e-02 -3.76e-05 2.26e-02 -1.18e-02 -9.34e-02  
## 3627 2.16e-02 -5.11e-03 -1.07e-02 2.56e-02 1.69e-02 -5.74e-03 7.27e-02  
## 3628 2.07e-02 1.98e-02 -1.14e-02 1.46e-03 2.76e-02 -3.22e-04 7.76e-02  
## 3629 4.64e-06 1.98e-04 3.66e-04 -2.24e-04 -5.53e-05 3.02e-04 1.09e-03  
## 3630 7.30e-05 -1.70e-04 -1.13e-03 -1.64e-03 -8.20e-04 3.51e-03 -7.13e-03  
## 3631 -1.80e-03 -5.68e-03 2.93e-03 -5.21e-03 -6.30e-03 4.55e-03 1.62e-02  
## 3632 1.10e-02 2.87e-02 -1.91e-02 -1.82e-02 4.02e-02 -2.67e-02 -8.78e-02  
## 3633 -2.77e-03 -7.36e-03 -2.80e-02 2.07e-02 1.87e-02 -1.14e-02 -1.01e-01  
## 3634 -1.48e-03 4.02e-03 -3.04e-03 -7.52e-04 -5.76e-03 1.63e-02 4.83e-02  
## 3635 1.90e-02 5.29e-03 4.41e-03 -8.19e-03 -2.81e-03 1.22e-02 -6.31e-02  
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## 3637 -1.49e-02 -1.03e-02 -2.71e-03 1.05e-02 -5.38e-03 -1.74e-02 7.65e-02  
## 3638 5.74e-05 2.30e-04 -1.56e-04 8.20e-05 2.01e-05 2.82e-04 -7.92e-04  
## 3639 -1.55e-05 1.13e-03 4.45e-04 1.14e-03 -2.94e-05 -3.91e-04 3.63e-03  
## 3640 -2.32e-03 -5.99e-03 3.86e-03 3.82e-03 -8.59e-03 5.61e-03 1.80e-02  
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## 3642 1.86e-02 1.30e-02 -1.10e-02 2.25e-03 2.21e-02 2.29e-03 6.96e-02  
## 3643 -8.65e-03 3.69e-03 -6.94e-03 9.12e-03 8.71e-03 6.81e-03 4.67e-02  
## 3644 1.06e-04 3.73e-05 -1.76e-03 1.29e-04 -1.40e-03 5.12e-03 -1.07e-02  
## 3645 -2.21e-04 1.05e-03 -2.51e-03 3.56e-03 -2.54e-04 -3.79e-03 9.86e-03  
## 3646 -6.11e-06 3.14e-05 -9.15e-05 1.02e-06 3.38e-06 -1.26e-04 3.22e-04  
## 3647 -1.15e-02 -1.07e-02 -2.43e-02 3.71e-03 1.14e-02 -3.61e-02 -9.19e-02  
## 3648 -4.48e-03 8.82e-03 -4.83e-03 -6.73e-03 6.05e-04 -3.88e-03 2.72e-02  
## 3649 -1.71e-02 -1.11e-02 2.25e-02 -6.83e-03 1.58e-02 -1.06e-02 6.34e-02  
## 3650 -1.29e-03 -5.75e-03 2.34e-03 -4.97e-03 -3.41e-03 -2.41e-04 1.15e-02  
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## 3652 -1.61e-04 2.98e-03 -3.28e-03 -3.22e-03 -1.64e-03 -3.97e-04 8.61e-03  
## 3653 4.47e-03 -6.65e-03 8.86e-03 7.96e-04 -2.88e-03 1.80e-04 3.31e-02  
## 3654 -7.84e-04 -1.72e-03 5.85e-03 -3.31e-04 -8.82e-04 4.55e-03 1.48e-02  
## 3655 1.13e-02 1.45e-02 -1.18e-02 -9.58e-03 -3.56e-04 8.54e-03 5.14e-02  
## 3656 -4.05e-03 3.20e-03 1.60e-02 -3.22e-03 9.16e-03 8.32e-03 4.08e-02  
## 3657 -7.02e-03 1.02e-03 -2.66e-02 8.10e-05 7.74e-03 -2.05e-02 -7.47e-02  
## 3658 -2.01e-02 2.90e-03 -8.59e-03 2.52e-02 2.32e-02 -2.00e-02 7.75e-02  
## 3659 4.27e-03 -1.49e-03 -1.16e-02 1.10e-02 -5.39e-03 4.68e-03 4.26e-02  
## 3660 5.42e-03 3.32e-03 -1.78e-03 2.35e-03 7.61e-04 2.75e-03 1.07e-02  
## 3661 -3.57e-02 2.63e-02 6.63e-03 2.50e-02 -7.03e-03 -1.40e-02 -8.93e-02  
## 3662 -1.95e-03 5.26e-02 -1.03e-02 8.79e-03 2.58e-02 -6.95e-03 9.20e-02  
## 3663 7.85e-03 8.37e-03 -8.23e-03 -1.32e-02 -5.13e-03 1.94e-03 3.90e-02  
## 3664 -8.09e-03 -1.68e-02 -4.72e-03 8.10e-03 -2.76e-03 -4.03e-03 5.04e-02  
## 3665 -1.80e-03 -7.91e-03 3.09e-03 -6.17e-03 -5.15e-03 -6.38e-04 1.53e-02  
## 3666 -1.02e-02 -8.21e-03 6.42e-03 -1.24e-03 -1.41e-02 3.75e-03 -3.55e-02  
## 3667 2.99e-02 -3.16e-03 1.51e-02 3.81e-03 3.05e-02 -7.85e-03 -1.10e-01  
## 3668 1.28e-02 1.38e-02 2.75e-03 -1.00e-02 -1.24e-03 -8.74e-04 -6.18e-02  
## 3669 -6.71e-03 -5.56e-03 -2.49e-02 2.62e-03 7.91e-03 -2.24e-02 -7.10e-02  
## 3670 -2.40e-03 -4.84e-03 4.56e-03 3.63e-03 -1.09e-02 9.52e-03 2.23e-02  
## 3671 2.95e-03 5.04e-04 3.21e-03 1.11e-03 1.46e-04 -2.46e-03 1.25e-02  
## 3672 8.67e-03 -9.85e-04 1.32e-02 9.32e-03 1.14e-04 1.49e-02 5.42e-02  
## 3673 -1.63e-02 -1.34e-02 1.28e-02 2.37e-03 -8.04e-03 -1.48e-02 4.82e-02  
## 3674 1.03e-02 1.39e-02 3.69e-02 -1.41e-02 5.21e-02 -3.68e-02 -9.12e-02  
## 3675 -2.77e-02 1.12e-02 -2.78e-02 -2.03e-02 4.70e-04 -8.04e-03 -1.11e-01  
## 3676 7.33e-03 1.62e-02 2.43e-03 -1.14e-02 7.93e-03 -6.68e-03 -6.21e-02  
## 3677 -1.25e-02 -9.27e-03 9.40e-03 -2.00e-05 -1.96e-02 -1.34e-05 -3.89e-02  
## 3678 -4.85e-03 -3.07e-03 -5.03e-03 5.14e-03 -5.21e-03 2.44e-03 -2.67e-02  
## 3679 1.53e-02 -9.83e-03 -6.62e-03 -4.99e-03 1.24e-02 5.55e-03 4.86e-02  
## 3680 5.98e-03 -1.68e-03 -4.05e-03 -5.19e-03 9.61e-04 -2.84e-03 2.26e-02  
## 3681 -1.31e-02 -4.51e-03 7.56e-03 -1.64e-02 -1.62e-02 1.88e-03 -4.31e-02  
## 3682 1.29e-02 -1.53e-02 -3.37e-02 3.32e-02 -3.54e-02 2.38e-02 -1.04e-01  
## 3683 -7.84e-03 -1.84e-02 2.62e-02 -1.92e-02 1.10e-03 1.67e-03 5.79e-02  
## 3684 -1.07e-02 -1.03e-02 5.95e-03 -7.49e-04 -1.42e-02 1.26e-04 -4.03e-02  
## 3685 2.32e-02 1.63e-02 1.15e-02 1.30e-02 1.96e-02 1.14e-02 -9.14e-02  
## 3686 6.40e-03 3.18e-03 8.91e-03 -8.52e-03 -4.94e-03 5.49e-04 3.04e-02  
## 3687 1.18e-02 -3.50e-03 -1.09e-02 -2.67e-02 -2.14e-02 -9.98e-03 7.98e-02  
## 3688 5.85e-03 2.29e-03 7.26e-03 -8.43e-03 -3.10e-03 2.60e-05 2.75e-02  
## 3689 -4.77e-03 -2.52e-02 2.40e-02 -8.70e-04 -4.63e-03 -4.37e-02 -1.26e-01  
## 3690 -1.54e-02 -1.33e-02 -4.30e-03 9.19e-03 4.96e-03 -9.80e-03 6.51e-02  
## 3691 -7.83e-03 6.53e-03 2.24e-02 -1.92e-03 1.56e-02 -1.06e-02 -9.32e-02  
## 3692 2.04e-02 -1.37e-02 2.05e-02 6.07e-03 1.39e-02 -2.64e-03 5.89e-02  
## 3693 1.15e-02 -1.34e-02 -4.54e-03 7.87e-03 2.26e-03 3.48e-03 3.99e-02  
## 3694 -6.60e-03 5.22e-04 4.72e-03 -5.74e-03 -1.53e-03 -1.87e-03 1.91e-02  
## 3695 1.33e-02 4.24e-02 4.07e-02 2.63e-03 4.38e-02 -1.37e-02 -1.08e-01  
## 3696 1.11e-05 2.99e-03 8.86e-04 3.16e-04 -9.18e-04 5.89e-04 6.63e-03  
## 3697 -1.22e-02 8.12e-05 8.72e-03 -5.83e-03 -1.16e-02 6.70e-03 -6.30e-02  
## 3698 -5.86e-04 2.01e-03 1.65e-03 2.28e-03 -3.03e-03 3.97e-03 1.21e-02  
## 3699 -8.68e-04 6.28e-04 6.69e-04 -1.69e-05 1.03e-03 -1.04e-04 -3.18e-03  
## 3700 -3.69e-03 -2.25e-03 -3.74e-03 -4.58e-04 -3.08e-03 1.08e-03 -1.77e-02  
## 3701 1.91e-02 -1.18e-02 -9.61e-03 2.10e-02 1.46e-02 -8.00e-03 6.52e-02  
## 3702 2.49e-04 1.77e-04 -2.38e-03 4.48e-03 -3.64e-03 8.11e-03 -1.67e-02  
## 3703 1.82e-04 6.70e-03 1.06e-03 2.04e-03 -1.30e-03 3.01e-03 1.04e-02  
## 3704 3.59e-03 4.55e-03 1.71e-02 1.24e-02 -7.59e-03 8.88e-03 5.38e-02  
## 3705 -4.85e-04 1.82e-03 1.67e-03 2.50e-03 -3.01e-03 3.82e-03 1.14e-02  
## 3706 -6.60e-04 -2.34e-04 -3.28e-04 -3.80e-04 -3.63e-04 -1.77e-05 1.54e-03  
## 3707 1.74e-03 -4.72e-04 1.61e-03 8.22e-04 2.20e-04 -5.92e-04 6.40e-03  
## 3708 2.34e-02 1.43e-02 6.31e-03 -1.21e-02 -1.08e-02 -7.56e-03 -8.22e-02  
## 3709 -3.50e-03 -3.72e-03 5.46e-03 3.71e-03 -7.82e-04 1.67e-03 -1.91e-02  
## 3710 -3.26e-02 8.00e-03 -9.29e-03 3.59e-03 1.71e-02 -6.22e-03 8.15e-02  
## 3711 9.57e-03 -1.41e-03 1.84e-03 -3.47e-03 -8.09e-03 1.62e-02 -4.24e-02  
## 3712 3.08e-03 -7.40e-03 8.19e-03 -1.13e-02 -3.03e-03 6.90e-04 2.99e-02  
## 3713 -7.80e-03 -1.87e-02 -3.85e-03 9.43e-03 -2.37e-03 7.09e-03 5.13e-02  
## 3714 -4.37e-04 -9.24e-05 9.64e-04 -1.45e-03 -1.29e-03 3.14e-04 4.44e-03  
## 3715 1.33e-03 -5.20e-03 3.19e-03 -1.31e-03 -1.23e-03 -2.05e-04 1.33e-02  
## 3716 9.63e-03 2.05e-02 -1.86e-02 -1.52e-02 4.32e-02 -3.68e-02 -8.91e-02  
## 3717 2.20e-03 1.32e-03 3.01e-03 -5.47e-03 2.29e-03 -4.19e-04 1.68e-02  
## 3718 -1.62e-03 -6.92e-03 2.97e-03 3.82e-03 -4.77e-03 2.16e-03 1.50e-02  
## 3719 1.73e-04 8.53e-04 -4.43e-04 6.76e-04 1.10e-04 9.35e-04 -2.33e-03  
## 3720 -1.28e-02 -9.28e-03 8.57e-03 -1.31e-02 -2.13e-02 1.32e-03 -3.98e-02  
## 3721 2.16e-02 6.39e-03 6.87e-03 9.87e-03 -1.28e-02 1.18e-02 -6.29e-02  
## 3722 7.08e-03 -3.13e-03 1.87e-03 -1.46e-03 -7.90e-03 1.11e-02 -2.77e-02  
## 3723 1.37e-03 1.53e-03 1.01e-03 1.28e-03 2.59e-03 -1.04e-04 -5.10e-03  
## 3724 5.24e-05 -4.88e-04 1.19e-03 1.63e-04 -2.45e-04 1.28e-03 -3.12e-03  
## 3725 1.01e-02 3.46e-02 4.12e-03 2.96e-03 1.58e-02 -1.48e-02 -8.26e-02  
## 3726 1.84e-02 1.29e-02 -1.32e-02 3.72e-04 2.89e-02 -5.53e-05 5.60e-02  
## 3727 8.83e-03 1.17e-02 -6.84e-03 -8.33e-03 -1.18e-03 -3.46e-03 3.05e-02  
## 3728 2.49e-03 5.11e-03 1.85e-03 -3.95e-03 3.07e-03 8.77e-04 1.34e-02  
## 3729 4.64e-04 4.81e-03 -1.45e-03 -3.47e-03 -2.80e-03 7.02e-03 1.77e-02  
## 3730 3.42e-02 1.20e-02 -9.51e-03 4.19e-03 2.32e-02 -2.14e-02 9.59e-02  
## 3731 -1.14e-03 4.96e-03 -8.16e-03 -1.17e-02 -9.06e-03 7.55e-03 2.18e-02  
## 3732 -4.63e-03 -6.25e-03 1.60e-02 -1.84e-02 1.64e-02 -1.14e-02 -6.73e-02  
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## 3734 -1.12e-03 8.28e-04 2.93e-03 1.80e-04 -4.59e-03 7.06e-04 1.39e-02  
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## 3737 1.91e-02 -1.67e-02 -5.11e-03 7.08e-03 3.57e-03 -8.56e-03 4.73e-02  
## 3738 -3.31e-03 7.58e-03 -2.33e-02 2.98e-03 6.02e-03 -1.37e-02 -9.98e-02  
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## 3740 1.24e-02 -2.37e-03 3.94e-03 -1.74e-03 -1.21e-02 1.79e-02 -4.68e-02  
## 3741 -1.28e-02 -8.68e-03 9.10e-03 -1.10e-03 -1.88e-02 -1.93e-04 -4.70e-02  
## 3742 1.84e-03 -4.16e-03 -1.11e-02 1.28e-02 -9.81e-03 -4.41e-03 5.63e-02  
## 3743 -3.70e-04 5.65e-04 5.41e-04 -1.42e-04 -1.57e-04 -1.48e-04 1.96e-03  
## 3744 7.02e-03 -3.84e-03 1.23e-03 -9.22e-04 -3.31e-03 9.14e-03 -2.64e-02  
## 3745 -1.45e-02 8.58e-03 -1.06e-02 3.70e-03 -1.11e-02 -1.43e-02 6.09e-02  
## 3746 -2.45e-03 -1.63e-02 -2.73e-03 -7.49e-03 -5.62e-03 6.07e-03 3.15e-02  
## 3747 -1.91e-03 -2.19e-03 2.73e-03 -1.65e-03 -7.99e-04 9.87e-04 -8.62e-03  
## 3748 7.72e-03 -1.16e-03 1.23e-02 8.44e-03 -1.04e-03 1.45e-02 5.16e-02  
## 3749 -2.48e-03 -4.66e-03 4.24e-03 3.26e-03 -1.07e-02 9.09e-03 2.14e-02  
## 3750 -1.10e-02 -7.72e-03 6.68e-03 -1.39e-03 -1.52e-02 3.68e-03 -3.68e-02  
## 3751 -1.15e-02 -1.07e-02 1.85e-02 -1.43e-02 1.15e-02 -3.48e-02 -8.15e-02  
## 3752 -2.53e-03 3.18e-03 2.06e-03 -6.59e-04 8.31e-04 -1.03e-04 9.33e-03  
## 3753 1.13e-03 -5.92e-04 9.76e-03 -1.91e-02 -5.16e-03 6.37e-03 3.81e-02  
## 3754 -1.87e-02 -1.56e-03 5.11e-03 8.78e-03 -9.16e-03 1.29e-02 -4.69e-02  
## 3755 2.01e-02 6.46e-03 -1.36e-02 -1.67e-02 2.31e-02 -7.14e-03 6.86e-02  
## 3756 9.23e-04 -8.49e-04 9.32e-04 -1.19e-04 1.60e-03 -3.30e-04 -4.27e-03  
## 3757 2.69e-03 -7.46e-04 -1.15e-02 2.01e-03 -1.36e-02 7.50e-03 4.64e-02  
## 3758 -1.85e-02 -5.32e-03 5.86e-03 -1.31e-03 -1.59e-02 7.02e-03 -4.72e-02  
## 3759 -1.30e-03 4.11e-03 3.96e-03 -8.59e-04 -7.79e-03 4.64e-03 2.09e-02  
## 3760 -3.45e-03 -6.95e-03 6.45e-03 5.60e-03 -1.50e-02 7.61e-03 3.13e-02  
## 3761 -5.86e-03 -2.68e-03 2.09e-02 -3.87e-04 2.08e-02 -8.16e-04 -9.51e-02  
## 3762 3.13e-04 9.39e-04 -7.05e-04 2.38e-05 -2.93e-04 2.32e-03 4.52e-03  
## 3763 1.05e-02 -1.22e-02 -4.43e-03 -1.38e-03 4.18e-03 3.93e-03 4.06e-02  
## 3764 -2.40e-03 -1.21e-02 -6.87e-03 2.18e-03 -7.43e-03 -3.40e-03 2.25e-02  
## 3765 5.13e-05 -1.26e-03 -1.30e-03 2.65e-03 -8.95e-04 2.76e-03 -8.22e-03  
## 3766 -1.74e-02 -6.40e-03 6.05e-03 -1.89e-04 -1.51e-02 6.82e-03 -4.05e-02  
## 3767 1.22e-02 -1.48e-03 6.00e-03 -1.49e-03 -1.48e-02 2.04e-02 -5.54e-02  
## 3768 -1.35e-02 -7.96e-03 -2.34e-02 -1.52e-02 3.67e-03 -3.68e-02 -8.89e-02  
## 3769 -9.42e-03 4.65e-04 -4.97e-03 6.61e-03 -1.36e-02 -1.78e-03 4.00e-02  
## 3770 9.18e-03 1.38e-02 3.08e-03 -9.21e-03 8.78e-03 -4.32e-03 -6.06e-02  
## 3771 9.98e-03 5.07e-03 -7.01e-03 1.27e-02 -1.29e-03 1.27e-03 3.79e-02  
## 3772 6.75e-05 -1.69e-03 -1.10e-03 3.08e-03 -5.35e-04 1.48e-03 -7.27e-03  
## 3773 2.70e-03 2.43e-03 1.66e-02 -2.60e-02 -1.05e-02 1.04e-02 5.45e-02  
## 3774 -5.68e-02 -2.06e-02 -4.13e-02 -4.27e-04 2.77e-02 6.58e-03 -1.82e-01  
## 3775 -8.96e-04 -9.35e-04 1.01e-03 8.71e-05 -3.50e-04 -2.58e-05 -3.60e-03  
## 3776 -5.26e-04 -1.06e-04 1.32e-03 2.37e-03 -1.19e-03 -1.44e-04 6.45e-03  
## 3777 3.09e-02 5.56e-04 -9.10e-03 4.74e-03 2.10e-02 -1.13e-02 8.51e-02  
## 3778 -3.32e-03 -1.77e-02 -1.83e-03 8.93e-03 -8.40e-03 1.18e-02 4.10e-02  
## 3779 7.58e-03 8.53e-03 2.15e-03 -7.48e-03 1.53e-03 3.81e-03 -5.05e-02  
## 3780 1.36e-02 -2.25e-03 3.94e-03 -3.23e-03 -5.22e-03 1.08e-02 -4.46e-02  
## 3781 1.64e-02 -6.06e-03 -8.59e-03 -2.42e-02 1.74e-02 2.20e-03 6.10e-02  
## 3782 -3.43e-03 -1.67e-02 -2.61e-03 6.48e-03 3.38e-04 1.18e-02 4.47e-02  
## 3783 -7.61e-04 -3.88e-02 -4.44e-02 3.87e-02 -2.58e-02 -2.24e-02 -1.44e-01  
## 3784 -2.28e-03 -5.87e-03 3.84e-03 3.67e-03 -8.32e-03 5.49e-03 1.79e-02  
## 3785 6.09e-03 -2.86e-02 -1.60e-02 4.04e-02 4.18e-02 -4.82e-02 -1.06e-01  
## 3786 1.76e-02 9.48e-03 -1.26e-02 1.23e-03 2.61e-02 1.52e-03 5.26e-02  
## 3787 9.89e-03 2.34e-03 2.34e-03 -5.08e-03 -6.87e-03 2.58e-03 -4.96e-02  
## 3788 -2.21e-03 -6.10e-03 4.13e-03 4.02e-03 -8.52e-03 5.83e-03 1.86e-02  
## 3789 4.11e-03 -8.42e-04 -1.18e-02 1.28e-02 -9.34e-03 -2.25e-03 5.42e-02  
## 3790 3.20e-02 4.39e-03 -9.12e-03 3.45e-03 2.76e-02 -9.03e-03 6.87e-02  
## 3791 -4.31e-03 1.42e-03 1.72e-02 -3.92e-03 1.99e-02 -1.00e-02 -7.11e-02  
## 3792 -8.44e-03 7.09e-04 -6.58e-03 4.92e-03 -1.05e-02 -9.59e-04 3.24e-02  
## 3793 -8.48e-03 -1.90e-02 -3.56e-03 8.55e-03 2.38e-03 1.78e-03 5.77e-02  
## 3794 -1.32e-02 5.05e-02 -3.17e-02 1.41e-02 1.68e-02 1.91e-02 -1.29e-01  
## 3795 1.48e-03 8.16e-04 -7.67e-04 3.50e-05 1.03e-03 7.17e-04 3.98e-03  
## 3796 -1.42e-02 2.09e-03 6.04e-03 -6.29e-03 -1.32e-02 1.46e-02 -7.08e-02  
## 3797 -2.49e-03 -4.66e-03 4.22e-03 3.25e-03 -1.07e-02 9.09e-03 2.14e-02  
## 3798 -6.41e-02 -4.89e-02 1.70e-02 -2.61e-02 -2.56e-02 -2.06e-02 -1.33e-01  
## 3799 1.46e-02 4.25e-03 2.84e-02 2.96e-03 2.66e-02 -1.37e-02 6.82e-02  
## 3800 -1.07e-02 -1.05e-02 6.08e-03 -3.99e-04 -1.48e-02 6.39e-04 -4.04e-02  
## 3801 1.46e-02 4.65e-03 -8.41e-03 5.10e-03 1.55e-02 -3.59e-03 6.68e-02  
## 3802 1.04e-02 7.41e-03 3.85e-03 -6.63e-03 -3.06e-03 1.78e-02 -5.51e-02  
## 3803 -2.07e-03 -5.59e-03 3.37e-03 3.25e-03 -8.61e-03 7.51e-03 2.02e-02  
## 3804 -9.87e-06 -3.39e-05 2.72e-05 -1.97e-05 -3.32e-06 -4.23e-05 1.28e-04  
## 3805 3.01e-03 4.82e-04 1.16e-02 -1.52e-03 -3.89e-03 1.18e-02 4.06e-02  
## 3806 1.89e-03 -3.37e-03 -1.14e-02 9.12e-03 -4.68e-03 -8.78e-04 3.80e-02  
## 3807 -1.07e-03 2.42e-03 -6.44e-03 -8.71e-03 -6.37e-03 3.94e-03 1.59e-02  
## 3808 6.46e-04 7.75e-03 -2.88e-03 4.85e-03 2.87e-04 8.85e-03 2.18e-02  
## 3809 2.67e-03 -1.44e-03 3.25e-03 -3.48e-04 5.33e-03 -8.45e-04 -1.23e-02  
## 3810 -1.06e-02 -7.58e-03 6.83e-03 -1.54e-03 -1.39e-02 3.36e-03 -3.65e-02  
## 3811 -5.07e-03 5.31e-03 -3.18e-03 -3.44e-03 -3.32e-03 -2.05e-04 1.66e-02  
## 3812 -1.44e-05 -8.20e-04 -5.28e-04 -1.52e-03 -6.16e-04 1.23e-03 -3.66e-03  
## 3813 -8.24e-04 6.33e-03 -2.60e-03 -3.25e-04 8.54e-04 3.98e-03 1.77e-02  
## 3814 4.22e-03 2.24e-03 -6.38e-03 -7.82e-03 3.65e-03 -1.08e-03 2.80e-02  
## 3815 -1.92e-03 -1.16e-02 -1.21e-03 -8.78e-06 -7.53e-03 5.91e-03 2.16e-02  
## 3816 -8.25e-03 -8.88e-03 4.57e-03 -1.17e-03 -8.22e-03 2.62e-03 -3.57e-02  
## 3817 3.30e-02 -4.80e-04 -1.04e-02 2.69e-02 2.29e-02 -4.05e-02 1.07e-01  
## 3818 8.80e-03 -1.97e-03 -6.37e-03 5.48e-03 4.96e-03 -8.91e-04 -2.62e-02  
## 3819 -3.27e-02 3.14e-03 -1.33e-02 1.41e-02 -1.24e-02 6.03e-03 5.88e-02  
## 3820 -1.27e-05 -1.22e-03 -8.69e-04 -2.89e-03 -1.17e-03 2.11e-03 -6.59e-03  
## 3821 -6.88e-04 5.26e-03 2.75e-03 3.06e-03 -5.98e-03 7.67e-03 1.74e-02  
## 3822 1.39e-04 -8.39e-04 -1.92e-03 3.39e-03 -1.72e-03 5.12e-03 -1.25e-02  
## 3823 1.25e-02 1.08e-02 8.32e-04 -1.03e-02 6.27e-03 -2.67e-03 -6.15e-02  
## 3824 9.68e-03 -2.95e-03 2.13e-03 -2.07e-03 -7.63e-03 1.78e-02 -4.10e-02  
## 3825 2.22e-02 -2.43e-02 1.01e-02 -8.12e-03 -1.38e-02 7.91e-03 -7.75e-02  
## 3826 -6.73e-03 -1.37e-03 -3.31e-03 -8.94e-04 -7.77e-03 -1.16e-03 2.31e-02  
## 3827 -2.19e-02 -9.56e-03 2.26e-02 -2.65e-02 -1.85e-02 -1.06e-02 7.15e-02  
## 3828 3.88e-02 1.43e-02 2.62e-02 3.47e-02 2.53e-02 -6.76e-03 -1.43e-01  
## 3829 -3.41e-04 -7.14e-05 1.15e-03 2.16e-03 -1.20e-03 8.22e-04 6.42e-03  
## 3830 -3.90e-04 4.32e-04 -5.29e-04 4.22e-04 1.42e-04 9.90e-05 -2.16e-03  
## 3831 7.67e-03 -1.99e-02 7.59e-03 -4.15e-03 -2.47e-02 3.60e-02 -7.21e-02  
## 3832 -1.22e-02 -1.17e-02 -4.71e-03 -2.87e-02 3.54e-03 -1.14e-02 7.14e-02  
## 3833 -1.73e-03 -6.74e-03 3.04e-03 3.73e-03 -5.45e-03 3.02e-03 1.58e-02  
## 3834 -2.23e-05 2.44e-04 3.05e-04 -5.30e-05 -5.40e-05 -5.56e-04 1.71e-03  
## 3835 1.50e-02 8.66e-03 1.86e-03 -8.54e-03 6.46e-03 5.80e-03 -5.85e-02  
## 3836 -1.44e-02 -1.13e-02 3.52e-02 -9.64e-03 1.38e-02 -7.89e-03 7.36e-02  
## 3837 -1.26e-02 -9.31e-03 -2.02e-02 -1.30e-02 -2.17e-02 1.90e-03 -5.55e-02  
## 3838 2.86e-02 2.65e-03 2.31e-02 1.02e-02 3.35e-02 1.45e-02 -1.06e-01  
## 3839 -1.59e-02 -4.82e-03 1.07e-02 -1.36e-03 -1.96e-02 6.95e-03 -5.14e-02  
## 3840 3.75e-03 -2.11e-04 -1.18e-02 5.96e-04 -7.47e-03 1.22e-02 4.38e-02  
## 3841 -3.02e-03 -6.31e-03 -9.32e-03 -8.19e-03 -1.35e-02 7.29e-03 2.38e-02  
## 3842 1.76e-03 2.22e-03 1.29e-02 9.77e-03 -4.61e-03 4.53e-03 4.21e-02  
## 3843 3.43e-03 -4.69e-02 1.69e-02 2.76e-02 -2.47e-03 -1.83e-02 -1.12e-01  
## 3844 4.57e-04 -5.02e-04 5.31e-04 8.27e-05 3.85e-04 3.24e-04 -1.99e-03  
## 3845 -4.86e-06 4.45e-04 -7.00e-04 6.26e-04 4.63e-05 -3.45e-04 1.57e-03  
## 3846 -3.29e-03 -4.40e-03 -1.01e-02 -1.69e-02 -1.70e-02 1.21e-02 3.08e-02  
## 3847 1.14e-02 -1.18e-02 1.82e-02 -1.49e-02 1.15e-02 4.44e-03 4.49e-02  
## 3848 -6.77e-03 -1.71e-02 -2.64e-03 -1.07e-02 -4.03e-03 5.30e-04 4.06e-02  
## 3849 1.44e-03 -3.54e-03 2.08e-03 -4.38e-04 -6.63e-04 -6.40e-04 7.53e-03  
## 3850 -1.19e-03 -1.73e-02 -1.67e-03 7.30e-03 -6.02e-03 1.03e-02 3.71e-02  
## 3851 -2.26e-03 -5.02e-03 4.04e-03 -1.25e-02 -9.67e-03 7.44e-03 2.12e-02  
## 3852 -1.81e-03 -8.86e-04 -1.47e-03 -2.15e-03 -2.02e-03 -7.38e-04 6.68e-03  
## 3853 1.99e-02 3.97e-03 -4.07e-03 -1.07e-02 1.84e-03 6.22e-03 3.91e-02  
## 3854 7.06e-03 -3.60e-03 -1.09e-02 -1.03e-02 -2.64e-03 1.44e-02 5.41e-02  
## 3855 -1.49e-03 2.75e-02 -8.38e-03 6.11e-03 2.05e-02 -1.28e-02 6.03e-02  
## 3856 3.10e-05 -1.19e-04 -1.22e-03 -3.83e-03 -1.42e-03 4.10e-03 -8.80e-03  
## 3857 -1.80e-02 -7.50e-03 -6.49e-03 8.20e-03 5.77e-03 -3.51e-02 8.74e-02  
## 3858 1.29e-02 6.94e-03 2.64e-03 -7.18e-03 -4.14e-03 9.14e-03 -5.12e-02  
## 3859 -3.44e-03 -6.71e-03 5.22e-03 4.34e-03 -1.42e-02 9.04e-03 3.29e-02  
## 3860 1.52e-04 6.55e-03 1.52e-03 3.32e-03 -1.55e-03 1.67e-03 1.34e-02  
## 3861 -8.70e-03 2.21e-02 -8.04e-03 -4.22e-03 -5.54e-03 -3.75e-03 4.42e-02  
## 3862 -1.71e-02 4.88e-03 1.14e-02 3.06e-02 -2.26e-02 1.16e-03 -7.77e-02  
## 3863 -6.70e-03 7.87e-03 -4.25e-03 9.03e-03 2.00e-03 5.14e-03 4.54e-02  
## 3864 -3.92e-03 -4.17e-03 -4.18e-03 5.01e-03 -9.68e-04 -3.88e-03 2.52e-02  
## 3865 6.75e-03 -1.25e-03 2.36e-03 1.46e-02 -6.92e-03 1.57e-02 -3.73e-02  
## 3866 -9.29e-03 -1.57e-02 3.02e-02 4.30e-03 3.34e-02 -3.36e-02 8.91e-02  
## 3867 -8.48e-04 -8.96e-04 -6.72e-04 9.54e-04 -1.31e-03 4.31e-04 -4.05e-03  
## 3868 3.05e-03 1.27e-03 -1.17e-02 4.07e-04 -1.00e-02 1.18e-02 3.92e-02  
## 3869 5.10e-03 -6.96e-03 6.77e-03 -1.44e-02 -4.61e-03 7.85e-03 -8.73e-02  
## 3870 -1.84e-02 -3.61e-03 -4.16e-03 7.07e-03 7.39e-03 -1.54e-02 7.06e-02  
## 3871 1.94e-02 -1.50e-02 2.17e-02 -6.98e-03 3.69e-03 7.91e-03 -1.08e-01  
## 3872 -1.20e-04 -5.17e-04 4.59e-04 6.40e-04 2.14e-04 -1.30e-03 -2.66e-03  
## 3873 -6.39e-03 -5.77e-03 -2.47e-02 3.38e-03 7.90e-03 -2.20e-02 -7.06e-02  
## 3874 -1.05e-02 2.72e-03 -8.23e-03 -5.08e-03 -9.09e-03 -7.03e-03 4.43e-02  
## 3875 -4.52e-03 -3.82e-03 -5.76e-03 5.07e-03 -6.61e-04 9.41e-04 -2.50e-02  
## 3876 3.08e-03 3.80e-03 -1.21e-02 -1.31e-02 -1.11e-02 1.37e-02 4.27e-02  
## 3877 1.49e-02 1.68e-03 -1.25e-02 4.70e-03 2.09e-02 -9.58e-03 6.66e-02  
## 3878 2.98e-02 -9.12e-03 -7.34e-03 7.34e-03 1.54e-02 -1.43e-02 8.04e-02  
## 3879 1.96e-02 1.41e-02 -1.22e-02 2.91e-03 2.64e-02 -6.59e-03 6.68e-02  
## 3880 -2.49e-03 -1.96e-04 -1.58e-03 -6.19e-03 -5.84e-03 1.27e-02 3.07e-02  
## 3881 -1.55e-02 -2.93e-03 -2.67e-02 -2.10e-03 -3.16e-02 8.87e-03 -6.44e-02  
## 3882 1.98e-02 -4.60e-03 -2.15e-02 1.25e-02 -2.23e-02 7.56e-03 -5.20e-02  
## 3883 -7.05e-04 1.74e-03 1.83e-03 -3.74e-03 -3.62e-03 3.29e-03 9.87e-03  
## 3884 -1.55e-03 1.95e-02 1.12e-02 -2.96e-02 2.43e-02 -5.75e-02 -1.24e-01  
## 3885 1.99e-03 1.48e-03 4.40e-03 -1.51e-03 -1.08e-04 2.53e-04 1.72e-02  
## 3886 -1.93e-03 -6.27e-03 3.42e-03 -4.94e-03 -6.54e-03 3.12e-03 1.45e-02  
## 3887 2.42e-03 6.23e-03 -1.13e-02 1.45e-02 -1.37e-02 5.74e-03 6.14e-02  
## 3888 2.12e-04 6.75e-04 1.04e-03 1.37e-03 3.30e-04 1.00e-03 3.17e-03  
## 3889 1.36e-04 -8.72e-04 -1.02e-03 2.17e-03 -3.29e-05 1.86e-03 -6.28e-03  
## 3890 -1.91e-04 -6.22e-04 6.35e-04 1.37e-03 -1.29e-04 -5.47e-04 3.36e-03  
## 3891 -9.36e-05 -3.26e-04 3.07e-04 -4.34e-04 1.01e-04 -8.30e-04 -1.73e-03  
## 3892 -5.22e-04 -1.46e-03 1.55e-03 -9.07e-04 -1.07e-03 -1.90e-03 6.80e-03  
## 3893 -8.03e-03 -1.81e-02 -3.16e-03 9.85e-03 -1.15e-02 1.79e-03 5.19e-02  
## 3894 -2.17e-04 -5.44e-04 6.58e-04 1.40e-03 -3.04e-04 -3.32e-04 3.52e-03  
## 3895 8.71e-04 4.57e-03 -1.69e-03 -3.39e-03 -7.95e-04 6.22e-03 1.44e-02  
## 3896 6.05e-03 1.46e-03 1.16e-02 8.91e-03 -1.26e-03 1.47e-02 5.24e-02  
## 3897 9.25e-03 -1.12e-02 -4.26e-03 1.27e-02 8.60e-03 1.51e-03 3.68e-02  
## 3898 -1.19e-03 -6.44e-03 2.10e-03 3.33e-03 -1.79e-03 -1.47e-03 1.08e-02  
## 3899 -2.29e-02 -2.85e-03 -2.63e-02 2.16e-02 9.12e-03 -2.51e-02 -9.13e-02  
## 3900 -2.03e-02 -4.32e-03 -2.18e-02 -6.45e-04 -2.15e-02 7.89e-03 -5.66e-02  
## 3901 2.77e-02 -1.33e-02 2.27e-02 1.83e-02 2.39e-02 -1.59e-02 6.89e-02  
## 3902 1.49e-04 7.14e-03 -2.52e-03 -4.81e-03 -1.81e-03 4.98e-03 2.09e-02  
## 3903 3.39e-05 4.80e-03 8.35e-04 -2.33e-03 -1.43e-03 2.52e-03 7.82e-03  
## 3904 9.11e-03 2.25e-02 3.87e-03 -1.31e-02 6.67e-03 -6.01e-03 -6.93e-02  
## 3905 -4.22e-03 1.66e-02 -2.67e-02 -3.07e-03 6.02e-03 -5.76e-03 -9.17e-02  
## 3906 6.96e-05 9.98e-04 1.58e-03 -8.71e-05 6.90e-04 8.14e-04 4.25e-03  
## 3907 1.12e-04 -2.45e-04 -1.51e-03 2.73e-05 -7.86e-04 4.23e-03 -9.06e-03  
## 3908 -3.16e-04 -6.04e-04 9.08e-04 1.79e-03 -3.41e-04 -8.36e-04 4.46e-03  
## 3909 8.92e-03 2.19e-04 -4.80e-03 -2.61e-04 7.76e-03 2.37e-03 2.56e-02  
## 3910 1.73e-02 5.22e-03 2.41e-02 1.70e-02 3.61e-02 -1.48e-03 6.64e-02  
## 3911 -1.22e-02 -9.44e-03 -2.13e-02 4.14e-04 -2.02e-02 -7.54e-05 -5.16e-02  
## 3912 1.15e-02 5.66e-03 5.69e-03 -4.29e-03 -1.47e-02 6.86e-03 -5.35e-02  
## 3913 9.69e-03 -2.03e-03 2.29e-03 1.64e-02 -5.50e-03 1.07e-02 -3.70e-02  
## 3914 5.51e-03 3.56e-03 -2.13e-03 2.28e-04 3.19e-03 3.49e-03 1.32e-02  
## 3915 2.47e-03 -8.00e-03 9.02e-03 1.11e-02 -4.21e-03 -7.64e-03 3.91e-02  
## 3916 -7.64e-03 -2.00e-02 -5.83e-04 -7.22e-04 -9.15e-03 1.57e-02 5.85e-02  
## 3917 1.64e-02 -6.49e-03 6.23e-03 -1.13e-02 -1.70e-02 8.09e-03 -4.05e-02  
## 3918 2.32e-02 -1.28e-02 1.36e-02 -3.67e-02 -1.89e-02 -1.55e-02 -9.36e-02  
## 3919 -1.10e-02 1.56e-03 8.12e-03 9.79e-03 -1.25e-03 -3.16e-03 3.04e-02  
## 3920 7.69e-03 -2.51e-03 1.28e-02 1.08e-02 -1.10e-03 3.58e-03 5.30e-02  
## 3921 1.05e-02 1.76e-02 3.62e-02 3.35e-02 5.61e-02 -3.70e-02 -1.09e-01  
## 3922 -1.19e-02 -7.74e-03 -7.07e-03 -1.18e-02 1.51e-02 -1.70e-02 7.76e-02  
## 3923 2.23e-03 8.11e-04 -4.20e-03 -5.04e-03 4.10e-04 1.05e-03 1.73e-02  
## 3924 -1.18e-04 -3.45e-03 -2.24e-03 3.44e-03 -8.82e-04 4.81e-03 1.52e-02  
## 3925 -1.60e-02 -9.34e-03 -6.80e-03 1.02e-02 -5.26e-03 -6.70e-03 3.59e-02  
## 3926 -1.04e-02 -6.38e-03 5.48e-03 -1.88e-03 -7.59e-03 7.79e-03 -4.40e-02  
## 3927 -2.20e-03 -5.48e-03 3.66e-03 -6.49e-03 -8.45e-03 5.68e-03 1.71e-02  
## 3928 4.08e-03 5.27e-03 4.85e-03 5.76e-03 4.38e-03 3.36e-04 2.97e-02  
## 3929 1.10e-04 -2.88e-04 -1.87e-03 9.13e-05 -2.63e-03 6.45e-03 -1.26e-02  
## 3930 -1.95e-02 -9.62e-03 -9.71e-03 -1.65e-02 -9.55e-03 -8.20e-03 4.52e-02  
## 3931 -3.14e-03 -5.30e-03 -1.03e-02 -9.62e-03 -1.60e-02 1.07e-02 2.75e-02  
## 3932 2.10e-03 -1.50e-04 1.03e-02 9.14e-03 -1.84e-03 4.49e-03 3.73e-02  
## 3933 2.16e-02 -2.24e-03 -2.16e-02 -8.38e-06 -2.53e-02 7.66e-03 -6.18e-02  
## 3934 7.11e-03 -2.03e-03 -1.06e-02 -2.24e-02 -4.92e-03 1.40e-02 5.38e-02  
## 3935 -2.59e-03 -6.17e-03 -8.56e-03 -1.33e-02 -1.24e-02 8.34e-03 2.62e-02  
## 3936 -4.12e-03 -8.02e-03 2.09e-02 2.70e-03 2.00e-02 -2.37e-02 -6.75e-02  
## 3937 2.68e-03 5.55e-03 1.62e-02 -2.03e-03 -1.11e-02 1.46e-02 5.40e-02  
## 3938 -5.01e-04 2.04e-03 1.85e-03 2.76e-03 -3.31e-03 4.19e-03 1.24e-02  
## 3939 -1.43e-02 1.08e-02 -2.40e-02 -2.08e-02 -3.60e-04 -1.85e-02 -1.16e-01  
## 3940 2.45e-02 2.59e-02 -2.68e-02 -2.26e-02 8.00e-03 1.96e-02 -1.12e-01  
## 3941 3.26e-03 -3.61e-03 9.05e-03 -8.72e-03 -3.68e-03 4.22e-04 3.73e-02  
## 3942 -2.68e-03 -7.03e-05 1.29e-02 -9.40e-03 7.49e-03 9.05e-03 3.61e-02  
## 3943 2.23e-03 -6.59e-03 1.05e-02 1.13e-02 -8.59e-04 -6.13e-04 4.32e-02  
## 3944 1.05e-02 1.39e-02 1.29e-03 -1.07e-02 5.06e-03 -1.23e-02 -6.65e-02  
## 3945 -8.06e-03 -2.20e-03 -5.00e-03 -9.89e-03 2.29e-03 9.96e-04 -2.28e-02  
## 3946 4.23e-04 2.53e-03 -1.20e-03 8.91e-05 -7.71e-04 4.14e-03 9.51e-03  
## 3947 -1.62e-02 -4.06e-03 -2.23e-02 -1.83e-03 -2.06e-02 6.21e-03 -6.29e-02  
## 3948 -2.21e-02 2.44e-03 -3.59e-03 8.62e-03 6.77e-03 -2.02e-02 9.20e-02  
## 3949 -1.76e-02 -1.11e-02 -8.62e-03 4.97e-03 -9.02e-03 1.33e-03 6.95e-02  
## 3950 8.18e-03 -1.59e-04 2.51e-03 -3.23e-03 -7.54e-03 2.30e-02 -4.47e-02  
## 3951 1.87e-03 1.30e-02 1.21e-02 6.75e-03 6.93e-03 1.00e-02 3.47e-02  
## 3952 -1.42e-02 -2.28e-03 8.07e-03 2.50e-02 -1.17e-02 -3.08e-03 -5.72e-02  
## 3953 -6.36e-03 -7.45e-04 -3.59e-03 -4.53e-03 -2.34e-03 8.65e-04 1.96e-02  
## 3954 1.22e-02 -3.13e-03 1.57e-02 -5.92e-04 -1.02e-02 4.97e-04 5.44e-02  
## 3955 6.63e-03 3.74e-03 -1.21e-02 1.27e-02 -6.72e-03 1.29e-02 5.94e-02  
## 3956 1.41e-02 -4.97e-03 2.99e-03 -2.44e-03 -5.36e-03 5.75e-03 -3.78e-02  
## 3957 1.27e-04 -6.65e-04 -1.96e-03 4.13e-04 -2.35e-03 5.77e-03 -1.28e-02  
## 3958 1.05e-04 2.44e-04 5.06e-04 -4.23e-06 2.11e-04 5.96e-04 1.57e-03  
## 3959 -3.02e-03 8.59e-03 -3.05e-03 1.10e-02 -4.89e-03 9.44e-03 4.97e-02  
## 3960 5.98e-05 -4.37e-04 3.41e-04 6.60e-06 9.07e-05 -9.52e-04 -2.15e-03  
## 3961 -4.40e-04 -4.29e-04 1.37e-03 2.64e-03 -1.04e-03 -5.07e-04 7.35e-03  
## 3962 1.42e-04 -3.43e-05 -2.28e-03 3.36e-03 -2.87e-03 7.42e-03 -1.52e-02  
## 3963 1.77e-02 8.97e-03 -1.33e-02 -1.77e-02 2.85e-02 1.27e-03 6.79e-02  
## 3964 -4.16e-04 -1.12e-04 2.16e-04 -9.32e-05 -4.05e-06 -2.40e-05 9.55e-04  
## 3965 4.77e-04 -5.98e-02 -1.76e-02 2.62e-02 2.23e-02 -1.35e-02 -1.19e-01  
## 3966 1.10e-03 -7.00e-03 -4.73e-03 -6.67e-03 -2.48e-03 7.09e-05 2.13e-02  
## 3967 -4.15e-03 -3.26e-03 -5.30e-03 -1.72e-03 -1.14e-03 -3.47e-03 2.54e-02  
## 3968 -8.64e-03 6.91e-04 8.77e-03 1.11e-02 -6.05e-03 -4.42e-03 3.46e-02  
## 3969 1.71e-02 -1.72e-03 3.09e-03 6.88e-03 -5.33e-03 2.35e-03 -4.49e-02  
## 3970 -1.18e-02 -8.14e-03 1.80e-02 2.27e-03 1.21e-02 -3.43e-02 -8.08e-02  
## 3971 8.76e-05 1.47e-03 -1.02e-03 -6.31e-05 6.87e-04 9.37e-04 5.47e-03  
## 3972 -1.97e-02 4.41e-03 3.84e-02 2.24e-02 3.84e-02 -2.87e-02 8.93e-02  
## 3973 2.97e-05 -1.73e-04 7.31e-04 4.10e-05 -2.04e-05 8.10e-04 -1.95e-03  
## 3974 1.03e-02 8.95e-03 3.75e-03 -6.98e-03 -3.13e-03 1.52e-02 -5.30e-02  
## 3975 -3.43e-02 8.21e-03 4.07e-02 4.38e-03 2.38e-02 -1.53e-02 9.66e-02  
## 3976 1.77e-04 -1.59e-05 -1.30e-03 -4.08e-03 -1.67e-03 4.86e-03 -1.10e-02  
## 3977 -1.14e-02 -1.04e-02 1.85e-02 3.97e-03 1.37e-02 -3.69e-02 -8.17e-02  
## 3978 1.38e-04 2.59e-04 -2.05e-03 2.90e-03 -1.29e-03 5.50e-03 -1.23e-02  
## 3979 -3.19e-04 -2.52e-03 -8.85e-03 -1.69e-02 -1.18e-02 -1.23e-03 4.91e-02  
## 3980 -1.90e-03 -1.12e-03 -1.13e-03 -1.92e-03 -1.46e-03 -6.92e-04 -4.85e-03  
## 3981 -1.28e-02 -5.35e-03 6.77e-03 -3.15e-03 -1.63e-02 2.30e-03 -3.92e-02  
## 3982 2.06e-03 -8.07e-04 -1.47e-03 -3.20e-04 -1.82e-03 -8.73e-04 6.60e-03  
## 3983 -2.53e-02 -4.05e-03 -1.31e-02 -3.53e-04 -7.59e-03 8.91e-03 6.67e-02  
## 3984 -1.66e-02 1.34e-03 -6.78e-03 4.68e-03 2.54e-02 -1.51e-02 7.27e-02  
## 3985 2.10e-02 6.29e-04 5.71e-03 -3.19e-03 -1.41e-02 2.46e-02 -6.21e-02  
## 3986 1.41e-03 -1.47e-03 -2.01e-03 -3.32e-03 1.67e-03 -6.36e-04 -8.32e-03  
## 3987 -5.21e-03 -3.74e-03 -5.61e-03 -6.13e-03 -2.08e-03 -7.94e-04 -2.91e-02  
## 3988 8.97e-03 -1.50e-02 2.76e-03 2.64e-03 3.57e-03 -1.58e-02 -7.67e-02  
## 3989 -1.97e-02 1.50e-02 1.68e-02 3.43e-02 -2.91e-02 -1.43e-03 -9.95e-02  
## 3990 9.23e-05 3.19e-03 7.04e-04 1.60e-03 -1.74e-04 5.88e-04 5.49e-03  
## 3991 -1.96e-03 1.84e-03 -1.14e-03 1.23e-04 7.39e-05 4.23e-06 6.40e-03  
## 3992 3.54e-04 -4.09e-03 2.57e-03 3.64e-03 4.54e-06 -1.26e-03 1.10e-02  
## 3993 -1.08e-02 -9.96e-03 6.47e-03 -8.17e-04 -1.34e-02 -5.37e-04 -4.16e-02  
## 3994 -9.85e-03 -1.43e-02 -2.94e-03 1.10e-02 -7.98e-03 3.85e-03 6.96e-02  
## 3995 -2.74e-04 1.42e-02 -4.77e-03 -9.63e-03 4.84e-03 7.54e-04 3.35e-02  
## 3996 -7.92e-03 -1.78e-03 5.22e-03 4.14e-03 4.30e-03 -5.53e-04 -1.97e-02  
## 3997 1.49e-05 5.66e-04 1.96e-04 5.11e-04 9.40e-05 -1.65e-04 1.34e-03  
## 3998 -4.53e-03 -2.70e-03 6.28e-03 4.01e-03 2.75e-03 2.51e-03 -2.19e-02  
## 3999 1.16e-02 1.26e-02 3.27e-02 -1.45e-02 5.67e-02 -2.76e-02 -9.76e-02  
## cov.r cook.d hat inf  
## 1 1.003 2.41e-04 0.00382   
## 2 1.005 1.41e-05 0.00278   
## 3 0.996 4.16e-04 0.00255   
## 4 1.007 5.18e-06 0.00377   
## 5 1.001 7.54e-05 0.00132   
## 6 1.004 6.40e-05 0.00226   
## 7 1.000 2.91e-04 0.00300   
## 8 1.004 1.08e-04 0.00314   
## 9 1.001 2.12e-04 0.00255   
## 10 1.006 7.80e-06 0.00368   
## 11 1.004 7.10e-05 0.00251   
## 12 1.005 1.29e-06 0.00220   
## 13 1.004 7.12e-05 0.00249   
## 14 0.997 3.03e-04 0.00226   
## 15 1.002 1.96e-04 0.00305   
## 16 1.005 2.60e-06 0.00240   
## 17 1.005 2.88e-07 0.00217   
## 18 1.007 4.66e-06 0.00452   
## 19 0.994 6.71e-04 0.00315   
## 20 1.000 2.47e-04 0.00269   
## 21 1.003 3.19e-04 0.00417   
## 22 1.005 8.57e-06 0.00258   
## 23 0.992 4.10e-04 0.00178   
## 24 1.006 6.10e-07 0.00332   
## 25 1.006 2.12e-06 0.00320   
## 26 1.005 3.57e-05 0.00272   
## 27 0.998 2.94e-04 0.00235   
## 28 0.998 5.74e-04 0.00377   
## 29 1.005 6.21e-06 0.00203   
## 30 0.999 3.96e-04 0.00331   
## 31 1.007 1.29e-06 0.00366   
## 32 0.995 6.74e-04 0.00340   
## 33 1.006 1.20e-06 0.00287   
## 34 1.005 2.66e-05 0.00264   
## 35 1.003 1.76e-04 0.00333   
## 36 1.007 7.77e-06 0.00374   
## 37 1.000 8.13e-05 0.00127   
## 38 1.003 1.07e-04 0.00278   
## 39 1.000 1.57e-04 0.00195   
## 40 1.003 9.84e-05 0.00252   
## 41 1.005 5.75e-05 0.00299   
## 42 1.006 1.80e-06 0.00339   
## 43 1.004 4.22e-06 0.00154   
## 44 1.006 3.47e-06 0.00280   
## 45 1.005 1.64e-04 0.00409   
## 46 1.002 1.68e-04 0.00251   
## 47 1.003 8.57e-05 0.00224   
## 48 1.002 7.87e-05 0.00188   
## 49 1.006 5.27e-06 0.00309   
## 50 1.006 1.13e-05 0.00294   
## 51 1.001 2.26e-04 0.00272   
## 52 1.002 2.45e-04 0.00319   
## 53 1.005 1.64e-04 0.00442   
## 54 1.003 1.25e-04 0.00285   
## 55 1.007 6.30e-07 0.00399   
## 56 1.003 6.26e-05 0.00209   
## 57 1.005 5.03e-05 0.00297   
## 58 1.005 4.10e-05 0.00305   
## 59 1.005 6.57e-07 0.00202   
## 60 1.006 1.72e-05 0.00346   
## 61 1.001 1.62e-04 0.00218   
## 62 1.004 1.00e-04 0.00314   
## 63 1.007 3.50e-06 0.00449   
## 64 1.005 3.85e-05 0.00298   
## 65 1.003 9.34e-05 0.00236   
## 66 1.002 2.10e-04 0.00314   
## 67 1.003 8.67e-05 0.00232   
## 68 1.006 2.14e-05 0.00358   
## 69 1.005 2.78e-06 0.00188   
## 70 1.001 2.45e-04 0.00292   
## 71 1.003 6.76e-05 0.00220   
## 72 1.005 8.50e-07 0.00204   
## 73 1.006 2.12e-05 0.00374   
## 74 1.006 1.10e-07 0.00266   
## 75 1.005 1.33e-04 0.00418   
## 76 1.005 7.18e-05 0.00318   
## 77 1.006 2.64e-05 0.00315   
## 78 1.005 5.25e-05 0.00281   
## 79 1.005 1.62e-04 0.00404   
## 80 1.005 6.40e-06 0.00199   
## 81 1.003 1.27e-04 0.00258   
## 82 1.004 2.22e-04 0.00415   
## 83 1.002 2.16e-04 0.00301   
## 84 1.004 1.05e-04 0.00285   
## 85 1.005 7.20e-08 0.00248   
## 86 0.996 4.25e-04 0.00258   
## 87 1.006 4.76e-05 0.00346   
## 88 1.005 2.63e-06 0.00181   
## 89 1.005 1.65e-07 0.00221   
## 90 1.004 1.69e-04 0.00402   
## 91 1.004 1.26e-04 0.00344   
## 92 1.000 3.37e-04 0.00329   
## 93 1.006 2.49e-06 0.00301   
## 94 1.005 5.41e-05 0.00297   
## 95 1.006 1.45e-05 0.00311   
## 96 1.001 1.66e-04 0.00217   
## 97 1.005 7.53e-06 0.00275   
## 98 0.991 3.83e-04 0.00164 \*  
## 99 1.005 2.00e-06 0.00205   
## 100 1.002 1.91e-04 0.00285   
## 101 1.004 2.32e-05 0.00177   
## 102 1.005 2.05e-05 0.00224   
## 103 1.004 1.04e-04 0.00327   
## 104 1.007 4.43e-05 0.00508   
## 105 0.989 7.79e-04 0.00266 \*  
## 106 1.003 1.46e-04 0.00289   
## 107 1.006 2.03e-05 0.00302   
## 108 1.005 4.79e-05 0.00330   
## 109 1.002 1.63e-04 0.00272   
## 110 1.005 1.46e-05 0.00260   
## 111 0.996 5.62e-04 0.00320   
## 112 1.005 4.24e-06 0.00265   
## 113 1.003 1.43e-04 0.00288   
## 114 1.000 1.87e-04 0.00226   
## 115 1.007 1.14e-05 0.00403   
## 116 1.002 3.67e-04 0.00422   
## 117 1.007 2.39e-05 0.00425   
## 118 1.003 1.55e-04 0.00326   
## 119 1.005 1.45e-08 0.00181   
## 120 1.003 1.74e-04 0.00304   
## 121 1.003 7.89e-05 0.00215   
## 122 1.004 2.02e-05 0.00164   
## 123 1.002 6.85e-05 0.00149   
## 124 1.004 6.12e-05 0.00247   
## 125 1.004 2.18e-05 0.00209   
## 126 1.006 8.17e-05 0.00389   
## 127 1.001 1.89e-04 0.00251   
## 128 1.006 6.82e-07 0.00322   
## 129 1.004 2.26e-05 0.00179   
## 130 1.007 5.43e-05 0.00500   
## 131 0.996 2.75e-04 0.00187   
## 132 0.998 6.89e-04 0.00420   
## 133 1.006 8.52e-06 0.00373   
## 134 1.001 2.89e-04 0.00321   
## 135 0.996 2.61e-04 0.00170   
## 136 1.005 4.83e-06 0.00224   
## 137 1.002 1.43e-04 0.00248   
## 138 1.005 6.18e-06 0.00257   
## 139 1.006 6.88e-07 0.00315   
## 140 1.003 1.02e-04 0.00254   
## 141 1.006 7.55e-06 0.00315   
## 142 0.997 5.47e-04 0.00346   
## 143 1.005 7.39e-05 0.00311   
## 144 1.005 2.16e-05 0.00267   
## 145 1.007 6.04e-07 0.00364   
## 146 1.006 1.03e-06 0.00316   
## 147 1.004 1.23e-05 0.00179   
## 148 0.997 2.06e-04 0.00164   
## 149 1.006 3.41e-05 0.00378   
## 150 1.005 1.14e-04 0.00395   
## 151 1.003 1.72e-04 0.00314   
## 152 1.004 9.12e-05 0.00265   
## 153 1.005 7.63e-06 0.00273   
## 154 1.005 1.46e-05 0.00222   
## 155 1.004 1.82e-05 0.00208   
## 156 1.000 3.02e-04 0.00283   
## 157 0.999 2.51e-04 0.00219   
## 158 1.004 2.51e-06 0.00141   
## 159 1.007 4.40e-05 0.00445   
## 160 1.006 1.86e-05 0.00364   
## 161 1.004 6.70e-05 0.00285   
## 162 1.000 2.92e-04 0.00286   
## 163 0.997 1.59e-04 0.00129   
## 164 1.006 2.04e-06 0.00348   
## 165 1.004 6.86e-06 0.00171   
## 166 1.006 6.83e-06 0.00321   
## 167 1.001 1.19e-04 0.00186   
## 168 1.005 8.32e-06 0.00218   
## 169 0.998 8.81e-04 0.00496   
## 170 1.004 1.02e-05 0.00179   
## 171 1.006 3.49e-05 0.00344   
## 172 1.005 1.25e-04 0.00395   
## 173 1.006 1.01e-04 0.00474   
## 174 0.996 4.51e-04 0.00267   
## 175 1.004 1.30e-06 0.00161   
## 176 1.005 2.09e-05 0.00257   
## 177 1.002 1.00e-04 0.00211   
## 178 1.002 3.07e-04 0.00357   
## 179 0.999 4.47e-04 0.00331   
## 180 1.006 5.53e-07 0.00268   
## 181 0.998 5.89e-04 0.00398   
## 182 1.002 8.63e-05 0.00185   
## 183 1.003 1.60e-04 0.00285   
## 184 1.005 2.49e-05 0.00297   
## 185 1.000 2.16e-04 0.00241   
## 186 1.000 3.99e-04 0.00357   
## 187 1.003 7.89e-05 0.00218   
## 188 1.004 1.24e-04 0.00328   
## 189 1.004 5.60e-06 0.00132   
## 190 1.005 4.86e-05 0.00298   
## 191 1.006 1.48e-05 0.00300   
## 192 1.003 1.99e-04 0.00364   
## 193 1.005 1.35e-05 0.00254   
## 194 1.006 4.60e-08 0.00321   
## 195 1.004 5.87e-06 0.00181   
## 196 1.003 2.43e-04 0.00396   
## 197 1.006 1.03e-05 0.00319   
## 198 1.004 7.09e-05 0.00271   
## 199 1.006 2.95e-06 0.00280   
## 200 1.005 2.42e-05 0.00229   
## 201 1.003 1.77e-04 0.00324   
## 202 1.002 1.82e-04 0.00263   
## 203 1.006 4.68e-06 0.00350   
## 204 1.000 2.67e-04 0.00260   
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## 206 1.004 8.07e-05 0.00295   
## 207 1.006 9.14e-06 0.00360   
## 208 1.002 1.25e-04 0.00224   
## 209 1.001 3.08e-04 0.00330   
## 210 1.005 1.29e-05 0.00260   
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## 212 1.003 1.62e-04 0.00299   
## 213 1.006 6.71e-06 0.00308   
## 214 1.004 9.95e-07 0.00122   
## 215 0.999 3.68e-04 0.00295   
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## 218 1.007 1.35e-06 0.00397   
## 219 1.005 1.49e-07 0.00258   
## 220 0.998 2.95e-04 0.00231   
## 221 1.001 7.87e-05 0.00129   
## 222 1.006 4.35e-06 0.00282   
## 223 1.005 2.61e-05 0.00255   
## 224 0.996 5.09e-04 0.00287   
## 225 1.005 1.76e-05 0.00236   
## 226 1.004 1.80e-04 0.00385   
## 227 1.005 3.26e-05 0.00292   
## 228 0.999 3.81e-04 0.00320   
## 229 1.001 2.03e-04 0.00266   
## 230 1.006 2.59e-06 0.00281   
## 231 1.005 2.26e-05 0.00277   
## 232 1.006 4.30e-05 0.00362   
## 233 1.003 1.70e-04 0.00305   
## 234 1.005 1.06e-05 0.00278   
## 235 1.004 2.05e-05 0.00211   
## 236 0.999 2.96e-04 0.00266   
## 237 1.006 1.34e-04 0.00501   
## 238 0.999 1.91e-04 0.00178   
## 239 1.004 1.05e-04 0.00281   
## 240 1.005 3.09e-06 0.00210   
## 241 1.006 7.63e-06 0.00306   
## 242 1.006 1.65e-07 0.00321   
## 243 1.005 1.10e-05 0.00278   
## 244 1.007 4.15e-05 0.00473   
## 245 1.003 1.68e-04 0.00339   
## 246 1.000 3.03e-04 0.00306   
## 247 1.005 6.67e-05 0.00348   
## 248 1.001 1.69e-04 0.00232   
## 249 0.996 3.28e-04 0.00214   
## 250 1.004 8.81e-05 0.00278   
## 251 1.005 4.83e-05 0.00315   
## 252 1.000 1.73e-04 0.00216   
## 253 1.002 4.91e-04 0.00503   
## 254 1.006 4.00e-05 0.00361   
## 255 1.004 3.03e-05 0.00184   
## 256 1.006 2.37e-06 0.00345   
## 257 1.005 2.61e-07 0.00230   
## 258 1.005 1.94e-05 0.00228   
## 259 0.998 3.24e-04 0.00246   
## 260 1.005 2.42e-04 0.00466   
## 261 1.003 3.08e-04 0.00407   
## 262 1.004 8.30e-05 0.00310   
## 263 1.003 1.70e-04 0.00299   
## 264 1.007 3.35e-05 0.00478   
## 265 1.005 4.70e-05 0.00285   
## 266 1.005 9.49e-06 0.00259   
## 267 1.005 3.55e-09 0.00233   
## 268 1.002 4.18e-04 0.00443   
## 269 0.983 9.84e-04 0.00251 \*  
## 270 1.006 4.09e-08 0.00300   
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## 272 1.006 7.62e-06 0.00305   
## 273 0.998 5.24e-04 0.00369   
## 274 1.000 4.83e-04 0.00413   
## 275 1.001 1.20e-04 0.00172   
## 276 1.003 2.50e-04 0.00367   
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## 278 1.005 1.65e-04 0.00450   
## 279 1.002 2.19e-04 0.00333   
## 280 1.004 9.01e-05 0.00271   
## 281 1.004 6.19e-05 0.00245   
## 282 1.003 6.82e-05 0.00207   
## 283 1.005 5.81e-05 0.00300   
## 284 1.007 6.36e-06 0.00466   
## 285 1.001 2.41e-04 0.00302   
## 286 1.000 1.75e-04 0.00204   
## 287 1.003 6.38e-05 0.00175   
## 288 1.001 1.59e-04 0.00219   
## 289 1.002 1.46e-04 0.00238   
## 290 0.996 2.56e-04 0.00174   
## 291 1.001 1.14e-04 0.00192   
## 292 1.006 7.98e-06 0.00296   
## 293 1.005 1.18e-04 0.00396   
## 294 0.995 4.41e-04 0.00236   
## 295 1.004 1.51e-05 0.00159   
## 296 1.004 2.33e-05 0.00177   
## 297 1.007 3.85e-06 0.00446   
## 298 0.998 2.70e-04 0.00217   
## 299 1.004 1.21e-04 0.00320   
## 300 1.001 2.41e-04 0.00294   
## 301 1.004 1.27e-04 0.00304   
## 302 1.005 3.28e-05 0.00248   
## 303 0.999 3.84e-04 0.00325   
## 304 1.006 1.35e-07 0.00344   
## 305 1.003 1.90e-04 0.00313   
## 306 1.005 3.57e-08 0.00227   
## 307 1.001 1.59e-04 0.00211   
## 308 1.006 3.17e-05 0.00355   
## 309 1.001 2.87e-04 0.00341   
## 310 1.006 3.50e-05 0.00359   
## 311 1.005 4.78e-05 0.00289   
## 312 1.003 1.92e-04 0.00319   
## 313 1.005 3.16e-05 0.00277   
## 314 0.997 3.13e-04 0.00226   
## 315 1.002 8.77e-05 0.00183   
## 316 1.005 2.09e-05 0.00277   
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## 318 0.988 8.94e-04 0.00281 \*  
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## 325 1.007 5.45e-08 0.00395   
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## 332 1.004 2.16e-05 0.00194   
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## 378 1.001 2.30e-04 0.00296   
## 379 1.005 3.51e-06 0.00239   
## 380 1.003 2.11e-04 0.00338   
## 381 1.005 6.78e-05 0.00340   
## 382 0.996 3.42e-04 0.00224   
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## 398 0.997 2.66e-04 0.00198   
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## 606 1.006 5.47e-07 0.00270   
## 607 1.006 3.39e-12 0.00335   
## 608 1.005 6.72e-06 0.00271   
## 609 0.996 8.34e-04 0.00416   
## 610 0.998 4.81e-04 0.00341   
## 611 0.992 8.85e-04 0.00355   
## 612 1.006 1.02e-05 0.00335   
## 613 1.003 1.33e-04 0.00265   
## 614 1.006 2.75e-06 0.00363   
## 615 1.003 1.05e-04 0.00231   
## 616 1.002 1.67e-04 0.00281   
## 617 1.005 6.32e-05 0.00331   
## 618 1.006 2.90e-05 0.00342   
## 619 0.999 2.92e-04 0.00245   
## 620 1.003 3.96e-04 0.00504   
## 621 1.005 2.66e-05 0.00300   
## 622 1.003 1.21e-04 0.00282   
## 623 1.005 2.12e-06 0.00198   
## 624 0.991 6.02e-04 0.00238 \*  
## 625 1.001 2.48e-04 0.00278   
## 626 1.002 2.12e-04 0.00305   
## 627 1.005 5.90e-05 0.00285   
## 628 1.007 1.33e-05 0.00401   
## 629 0.998 4.56e-04 0.00331   
## 630 0.999 4.35e-04 0.00342   
## 631 1.006 2.47e-05 0.00335   
## 632 1.004 2.27e-05 0.00197   
## 633 1.004 8.39e-06 0.00146   
## 634 1.006 5.61e-05 0.00379   
## 635 0.995 5.80e-04 0.00305   
## 636 1.005 1.06e-04 0.00359   
## 637 1.005 2.57e-05 0.00256   
## 638 0.996 5.88e-04 0.00329   
## 639 1.003 9.75e-05 0.00240   
## 640 1.005 4.78e-06 0.00255   
## 641 0.994 8.11e-04 0.00356   
## 642 1.003 5.91e-05 0.00194   
## 643 1.004 1.34e-04 0.00353   
## 644 1.004 4.95e-05 0.00255   
## 645 1.003 7.45e-05 0.00223   
## 646 0.998 2.14e-04 0.00175   
## 647 1.006 1.98e-05 0.00323   
## 648 1.005 1.30e-04 0.00378   
## 649 1.001 1.87e-04 0.00246   
## 650 1.001 1.20e-04 0.00183   
## 651 1.002 1.27e-04 0.00224   
## 652 1.005 2.24e-08 0.00169   
## 653 1.004 3.16e-05 0.00217   
## 654 0.993 5.80e-04 0.00266   
## 655 0.998 3.31e-04 0.00266   
## 656 1.005 8.13e-06 0.00195   
## 657 1.006 4.99e-06 0.00334   
## 658 0.990 5.83e-04 0.00214 \*  
## 659 1.005 5.56e-06 0.00270   
## 660 0.999 3.34e-04 0.00293   
## 661 1.003 7.07e-05 0.00186   
## 662 1.004 2.30e-05 0.00178   
## 663 1.007 6.21e-08 0.00401   
## 664 1.005 6.15e-06 0.00199   
## 665 0.998 2.72e-04 0.00222   
## 666 1.000 1.16e-04 0.00155   
## 667 1.006 9.87e-05 0.00404   
## 668 0.996 2.72e-04 0.00184   
## 669 1.007 2.22e-07 0.00377   
## 670 1.005 2.01e-07 0.00234   
## 671 1.005 3.80e-07 0.00188   
## 672 1.002 6.75e-05 0.00172   
## 673 1.004 4.14e-05 0.00232   
## 674 0.999 6.61e-04 0.00454   
## 675 1.006 2.80e-05 0.00372   
## 676 1.005 1.59e-06 0.00222   
## 677 1.001 2.95e-04 0.00322   
## 678 0.997 7.60e-04 0.00422   
## 679 1.004 1.05e-04 0.00294   
## 680 1.002 1.76e-04 0.00282   
## 681 1.006 1.12e-07 0.00315   
## 682 1.004 1.17e-04 0.00315   
## 683 1.002 1.66e-04 0.00258   
## 684 0.998 2.01e-04 0.00178   
## 685 1.002 8.79e-05 0.00206   
## 686 1.005 6.14e-06 0.00249   
## 687 0.998 3.95e-04 0.00295   
## 688 1.006 3.70e-05 0.00387   
## 689 1.004 1.32e-04 0.00321   
## 690 1.004 4.28e-05 0.00202   
## 691 1.006 2.54e-05 0.00353   
## 692 1.005 1.87e-07 0.00208   
## 693 1.002 7.44e-05 0.00161   
## 694 1.005 3.60e-05 0.00262   
## 695 1.004 6.01e-05 0.00268   
## 696 1.006 1.94e-06 0.00272   
## 697 0.997 3.95e-04 0.00276   
## 698 1.005 1.41e-04 0.00382   
## 699 1.005 1.61e-05 0.00293   
## 700 1.007 3.79e-06 0.00385   
## 701 1.001 1.73e-04 0.00244   
## 702 0.999 1.96e-04 0.00190   
## 703 1.004 4.29e-05 0.00199   
## 704 1.003 8.05e-05 0.00223   
## 705 0.998 3.86e-04 0.00274   
## 706 1.006 1.35e-05 0.00355   
## 707 1.001 2.98e-04 0.00346   
## 708 1.002 1.62e-04 0.00252   
## 709 1.004 1.26e-04 0.00361   
## 710 0.991 4.21e-04 0.00180 \*  
## 711 1.002 2.41e-04 0.00349   
## 712 1.005 6.92e-07 0.00243   
## 713 1.003 3.04e-04 0.00399   
## 714 1.006 1.66e-06 0.00346   
## 715 1.003 1.29e-04 0.00292   
## 716 1.007 3.73e-07 0.00376   
## 717 1.000 2.14e-04 0.00227   
## 718 1.002 2.17e-04 0.00318   
## 719 1.005 1.17e-04 0.00367   
## 720 1.005 1.18e-05 0.00213   
## 721 1.005 6.04e-06 0.00187   
## 722 1.003 9.48e-05 0.00264   
## 723 0.997 2.11e-04 0.00163   
## 724 1.002 1.16e-04 0.00213   
## 725 1.004 8.77e-05 0.00317   
## 726 1.005 1.13e-05 0.00250   
## 727 0.998 3.25e-04 0.00239   
## 728 0.999 4.77e-04 0.00372   
## 729 1.006 2.02e-07 0.00324   
## 730 0.997 4.94e-04 0.00321   
## 731 1.004 1.96e-05 0.00165   
## 732 1.001 1.43e-04 0.00225   
## 733 1.007 1.99e-07 0.00376   
## 734 1.001 2.68e-04 0.00321   
## 735 1.004 1.51e-04 0.00380   
## 736 1.003 1.39e-04 0.00269   
## 737 1.006 1.07e-05 0.00359   
## 738 1.002 1.70e-04 0.00261   
## 739 1.006 4.70e-06 0.00298   
## 740 1.006 2.95e-06 0.00360   
## 741 1.000 3.01e-04 0.00292   
## 742 1.003 1.94e-04 0.00329   
## 743 1.006 1.13e-07 0.00284   
## 744 1.002 8.95e-05 0.00181   
## 745 1.005 1.99e-05 0.00296   
## 746 1.006 7.64e-07 0.00331   
## 747 0.999 3.93e-04 0.00315   
## 748 1.005 3.39e-07 0.00222   
## 749 1.006 2.74e-05 0.00368   
## 750 1.004 4.53e-05 0.00253   
## 751 1.006 6.59e-06 0.00297   
## 752 1.005 1.14e-04 0.00381   
## 753 1.002 4.40e-04 0.00440   
## 754 1.003 8.46e-05 0.00236   
## 755 1.005 8.35e-06 0.00270   
## 756 1.004 2.19e-05 0.00174   
## 757 1.002 2.93e-04 0.00359   
## 758 1.006 2.37e-06 0.00338   
## 759 1.004 2.39e-05 0.00175   
## 760 1.001 1.76e-04 0.00224   
## 761 1.001 1.14e-04 0.00191   
## 762 1.005 3.10e-05 0.00291   
## 763 1.005 7.60e-06 0.00259   
## 764 1.002 2.60e-04 0.00324   
## 765 0.999 1.99e-04 0.00206   
## 766 1.005 5.97e-06 0.00197   
## 767 1.004 9.58e-05 0.00279   
## 768 1.006 6.40e-05 0.00388   
## 769 1.004 2.78e-05 0.00195   
## 770 1.002 6.72e-05 0.00168   
## 771 0.992 4.15e-04 0.00180   
## 772 1.003 2.60e-04 0.00403   
## 773 0.999 2.37e-04 0.00234   
## 774 1.006 6.27e-06 0.00289   
## 775 1.004 2.62e-04 0.00438   
## 776 1.003 1.00e-04 0.00224   
## 777 1.005 1.81e-05 0.00263   
## 778 0.996 2.54e-04 0.00169   
## 779 1.006 5.42e-06 0.00331   
## 780 1.003 8.58e-05 0.00234   
## 781 1.005 2.89e-05 0.00264   
## 782 0.997 2.90e-04 0.00203   
## 783 1.008 7.74e-08 0.00469   
## 784 0.998 3.68e-04 0.00271   
## 785 1.006 9.30e-06 0.00332   
## 786 1.006 4.34e-05 0.00339   
## 787 1.005 8.07e-05 0.00367   
## 788 1.005 3.90e-05 0.00282   
## 789 1.006 9.84e-08 0.00327   
## 790 1.006 1.37e-06 0.00320   
## 791 1.006 1.56e-05 0.00316   
## 792 1.007 1.92e-07 0.00365   
## 793 1.002 2.79e-04 0.00349   
## 794 1.004 2.04e-04 0.00395   
## 795 1.003 1.11e-04 0.00282   
## 796 1.005 4.57e-05 0.00302   
## 797 1.005 2.13e-05 0.00221   
## 798 0.995 4.39e-04 0.00241   
## 799 1.006 7.52e-05 0.00399   
## 800 1.003 1.17e-04 0.00257   
## 801 1.005 5.03e-06 0.00254   
## 802 1.007 4.85e-06 0.00371   
## 803 1.002 1.34e-04 0.00244   
## 804 1.006 5.26e-06 0.00350   
## 805 1.005 3.90e-05 0.00269   
## 806 1.006 2.07e-06 0.00268   
## 807 1.000 1.96e-04 0.00213   
## 808 1.001 7.54e-05 0.00128   
## 809 0.994 4.01e-04 0.00215   
## 810 0.989 1.06e-03 0.00348 \*  
## 811 1.005 1.21e-06 0.00216   
## 812 1.006 2.83e-05 0.00351   
## 813 1.006 5.37e-05 0.00352   
## 814 0.998 2.49e-04 0.00212   
## 815 1.003 1.09e-04 0.00271   
## 816 1.005 2.54e-05 0.00257   
## 817 1.002 2.26e-04 0.00320   
## 818 1.006 1.24e-09 0.00312   
## 819 1.005 9.31e-05 0.00334   
## 820 1.006 6.91e-07 0.00266   
## 821 1.002 8.66e-05 0.00184   
## 822 1.003 1.45e-04 0.00313   
## 823 1.005 6.95e-07 0.00259   
## 824 1.001 2.77e-04 0.00318   
## 825 1.005 5.76e-05 0.00312   
## 826 1.005 3.40e-05 0.00249   
## 827 0.992 9.17e-04 0.00352   
## 828 1.006 1.20e-04 0.00427   
## 829 0.992 6.87e-04 0.00285   
## 830 1.005 1.92e-07 0.00193   
## 831 1.005 3.61e-05 0.00302   
## 832 1.001 1.67e-04 0.00247   
## 833 1.003 8.70e-05 0.00242   
## 834 1.006 1.01e-04 0.00413   
## 835 1.006 1.11e-05 0.00309   
## 836 0.996 2.68e-04 0.00181   
## 837 1.005 3.76e-05 0.00314   
## 838 1.004 3.66e-07 0.00161   
## 839 0.998 3.28e-04 0.00262   
## 840 1.006 1.56e-05 0.00324   
## 841 0.988 6.90e-04 0.00228 \*  
## 842 1.004 1.41e-04 0.00351   
## 843 1.003 5.84e-05 0.00195   
## 844 1.004 5.14e-06 0.00157   
## 845 1.005 9.40e-06 0.00252   
## 846 1.006 3.15e-05 0.00379   
## 847 1.005 7.46e-06 0.00205   
## 848 1.004 2.11e-05 0.00197   
## 849 1.005 7.64e-07 0.00260   
## 850 1.007 1.51e-06 0.00388   
## 851 1.004 5.15e-05 0.00241   
## 852 1.004 1.10e-04 0.00294   
## 853 1.005 6.98e-06 0.00255   
## 854 0.996 6.64e-04 0.00355   
## 855 1.006 1.84e-05 0.00300   
## 856 0.996 3.31e-04 0.00213   
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## 858 1.006 3.74e-06 0.00292   
## 859 1.004 1.90e-06 0.00122   
## 860 1.006 5.57e-06 0.00359   
## 861 1.001 2.13e-04 0.00255   
## 862 1.003 9.35e-05 0.00261   
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## 877 1.006 2.81e-06 0.00304   
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## 880 1.005 1.01e-05 0.00234   
## 881 1.002 1.80e-04 0.00267   
## 882 1.005 1.79e-05 0.00284   
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## 884 1.004 4.22e-05 0.00204   
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## 886 1.001 3.35e-04 0.00369   
## 887 1.003 1.37e-04 0.00279   
## 888 0.994 8.11e-04 0.00356   
## 889 1.005 9.74e-05 0.00374   
## 890 0.997 3.51e-04 0.00245   
## 891 1.000 2.43e-04 0.00256   
## 892 0.998 4.01e-04 0.00300   
## 893 1.005 4.79e-05 0.00316   
## 894 1.002 2.03e-04 0.00289   
## 895 1.005 1.19e-08 0.00254   
## 896 1.005 6.45e-05 0.00309   
## 897 1.002 3.18e-04 0.00372   
## 898 1.004 9.57e-05 0.00304   
## 899 1.004 2.25e-05 0.00178   
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## 901 1.001 2.72e-04 0.00296   
## 902 1.005 3.41e-05 0.00264   
## 903 1.006 1.15e-05 0.00293   
## 904 1.004 5.35e-05 0.00269   
## 905 1.001 1.60e-04 0.00221   
## 906 1.005 6.87e-05 0.00344   
## 907 1.005 1.78e-05 0.00221   
## 908 1.006 9.24e-06 0.00298   
## 909 1.001 1.57e-04 0.00233   
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## 911 1.006 1.72e-05 0.00347   
## 912 1.004 5.72e-06 0.00157   
## 913 1.006 1.65e-06 0.00292   
## 914 1.003 7.92e-05 0.00242   
## 915 1.002 2.38e-04 0.00312   
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## 917 1.000 1.91e-04 0.00209   
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## 923 1.003 2.04e-04 0.00337   
## 924 1.007 8.32e-06 0.00390   
## 925 1.003 9.73e-05 0.00262   
## 926 1.001 2.07e-04 0.00253   
## 927 1.006 1.12e-05 0.00297   
## 928 1.003 1.55e-04 0.00315   
## 929 1.002 1.68e-04 0.00255   
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## 931 1.006 1.04e-05 0.00297   
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## 940 1.000 1.80e-04 0.00199   
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## 964 0.990 3.98e-04 0.00161 \*  
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## 966 1.005 4.17e-05 0.00295   
## 967 1.004 3.81e-05 0.00213   
## 968 1.003 9.49e-05 0.00243   
## 969 1.004 1.00e-04 0.00323   
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## 1003 1.001 1.69e-04 0.00247   
## 1004 1.002 1.87e-04 0.00266   
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## 1006 1.000 2.71e-04 0.00271   
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## 1016 1.003 2.29e-04 0.00354   
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## 1024 1.005 5.11e-05 0.00274   
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## 1029 1.006 1.00e-04 0.00405   
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## 1031 1.005 1.31e-06 0.00265   
## 1032 1.005 2.44e-05 0.00298   
## 1033 1.006 9.50e-07 0.00298   
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## 1035 1.002 2.31e-04 0.00334   
## 1036 1.004 1.00e-04 0.00325   
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## 1042 1.005 2.15e-05 0.00279   
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## 1045 1.003 9.13e-05 0.00216   
## 1046 1.004 8.20e-06 0.00158   
## 1047 0.992 4.19e-04 0.00181   
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## 1068 1.000 1.71e-04 0.00215   
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## 1323 1.007 1.99e-05 0.00407   
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## 1467 1.002 2.16e-04 0.00293   
## 1468 1.001 1.36e-04 0.00197   
## 1469 1.001 1.01e-04 0.00180   
## 1470 1.003 1.39e-04 0.00303   
## 1471 1.006 2.69e-05 0.00387   
## 1472 1.004 2.22e-05 0.00174   
## 1473 0.993 6.15e-04 0.00275   
## 1474 0.999 2.01e-04 0.00193   
## 1475 1.004 1.13e-04 0.00325   
## 1476 1.006 3.62e-05 0.00379   
## 1477 1.006 3.67e-06 0.00291   
## 1478 0.996 4.46e-04 0.00261   
## 1479 1.006 3.74e-08 0.00290   
## 1480 1.006 3.89e-05 0.00401   
## 1481 1.003 6.82e-05 0.00206   
## 1482 0.996 4.22e-04 0.00256   
## 1483 1.003 7.70e-05 0.00202   
## 1484 1.003 7.08e-05 0.00205   
## 1485 1.006 1.04e-05 0.00286   
## 1486 1.006 2.95e-05 0.00391   
## 1487 1.004 2.36e-05 0.00182   
## 1488 1.002 1.41e-04 0.00264   
## 1489 1.002 2.45e-04 0.00321   
## 1490 0.991 5.55e-04 0.00222 \*  
## 1491 1.006 5.18e-05 0.00371   
## 1492 1.004 3.62e-05 0.00194   
## 1493 1.005 4.41e-05 0.00329   
## 1494 1.002 1.44e-04 0.00231   
## 1495 1.004 1.22e-04 0.00335   
## 1496 1.004 1.59e-04 0.00363   
## 1497 1.005 4.24e-06 0.00224   
## 1498 1.005 2.31e-05 0.00280   
## 1499 1.001 1.96e-04 0.00259   
## 1500 0.999 1.34e-04 0.00142   
## 1501 1.003 6.42e-05 0.00205   
## 1502 1.007 9.06e-06 0.00410   
## 1503 1.005 1.88e-06 0.00189   
## 1504 1.002 3.50e-04 0.00407   
## 1505 1.000 1.72e-04 0.00204   
## 1506 1.005 2.50e-05 0.00260   
## 1507 1.005 5.05e-06 0.00271   
## 1508 0.998 3.06e-04 0.00230   
## 1509 1.002 3.27e-04 0.00373   
## 1510 1.005 9.81e-06 0.00277   
## 1511 1.005 4.16e-05 0.00307   
## 1512 0.998 3.30e-04 0.00256   
## 1513 1.004 9.07e-05 0.00273   
## 1514 1.004 1.98e-05 0.00188   
## 1515 1.000 5.16e-04 0.00408   
## 1516 1.004 5.35e-05 0.00265   
## 1517 1.006 9.38e-07 0.00281   
## 1518 0.994 8.15e-04 0.00372   
## 1519 1.003 6.50e-05 0.00180   
## 1520 1.005 5.18e-05 0.00289   
## 1521 1.004 1.85e-05 0.00203   
## 1522 0.998 4.47e-04 0.00313   
## 1523 1.005 1.57e-05 0.00268   
## 1524 1.002 1.24e-04 0.00233   
## 1525 1.005 4.93e-06 0.00244   
## 1526 1.002 3.71e-04 0.00427   
## 1527 1.005 2.90e-05 0.00256   
## 1528 1.004 1.12e-05 0.00172   
## 1529 1.000 2.20e-04 0.00226   
## 1530 1.005 1.13e-05 0.00231   
## 1531 1.006 1.43e-04 0.00462   
## 1532 1.005 3.35e-05 0.00280   
## 1533 1.006 6.29e-07 0.00327   
## 1534 1.004 1.30e-04 0.00314   
## 1535 1.004 5.89e-05 0.00236   
## 1536 1.006 4.71e-05 0.00365   
## 1537 1.006 1.35e-05 0.00305   
## 1538 1.005 9.61e-07 0.00199   
## 1539 1.001 1.67e-04 0.00214   
## 1540 1.004 8.77e-05 0.00311   
## 1541 1.005 4.26e-05 0.00282   
## 1542 1.005 4.36e-06 0.00239   
## 1543 0.995 4.28e-04 0.00229   
## 1544 1.003 1.77e-04 0.00343   
## 1545 0.998 2.13e-04 0.00175   
## 1546 0.997 5.01e-04 0.00305   
## 1547 1.005 9.47e-06 0.00250   
## 1548 1.006 3.76e-05 0.00412   
## 1549 1.005 1.14e-04 0.00375   
## 1550 1.004 9.99e-06 0.00168   
## 1551 0.993 6.24e-04 0.00280   
## 1552 1.003 2.87e-04 0.00388   
## 1553 1.004 8.84e-05 0.00297   
## 1554 1.002 1.68e-04 0.00281   
## 1555 1.004 2.35e-05 0.00176   
## 1556 1.007 1.53e-05 0.00466   
## 1557 1.002 6.51e-05 0.00154   
## 1558 1.006 8.21e-05 0.00397   
## 1559 0.998 2.59e-04 0.00221   
## 1560 1.004 4.49e-05 0.00231   
## 1561 1.005 8.34e-05 0.00328   
## 1562 1.006 9.97e-07 0.00351   
## 1563 1.002 2.27e-04 0.00322   
## 1564 0.998 6.78e-04 0.00413   
## 1565 1.003 6.28e-05 0.00216   
## 1566 1.005 2.89e-08 0.00233   
## 1567 1.005 2.30e-05 0.00232   
## 1568 0.998 3.45e-04 0.00267   
## 1569 1.005 5.45e-05 0.00319   
## 1570 1.005 5.15e-06 0.00184   
## 1571 0.993 9.65e-04 0.00405   
## 1572 1.007 9.36e-08 0.00426   
## 1573 0.999 4.53e-04 0.00357   
## 1574 0.998 3.77e-04 0.00277   
## 1575 1.003 1.19e-04 0.00268   
## 1576 1.005 2.06e-04 0.00482   
## 1577 1.004 1.15e-04 0.00349   
## 1578 1.006 5.39e-06 0.00352   
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## 1580 1.007 5.59e-05 0.00476   
## 1581 1.006 1.83e-05 0.00310   
## 1582 1.006 1.13e-06 0.00288   
## 1583 1.005 1.26e-07 0.00211   
## 1584 1.003 1.38e-04 0.00289   
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## 1587 1.004 1.10e-05 0.00164   
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## 1592 0.998 2.44e-04 0.00192   
## 1593 1.006 5.46e-05 0.00362   
## 1594 1.005 1.01e-07 0.00253   
## 1595 1.006 8.03e-06 0.00289   
## 1596 1.005 7.38e-05 0.00328   
## 1597 1.003 1.12e-04 0.00256   
## 1598 1.000 1.50e-04 0.00188   
## 1599 0.998 4.75e-04 0.00345   
## 1600 1.006 1.80e-05 0.00327   
## 1601 1.006 1.05e-06 0.00276   
## 1602 1.007 8.88e-07 0.00428   
## 1603 1.003 3.50e-04 0.00450   
## 1604 1.004 1.44e-05 0.00162   
## 1605 1.004 5.27e-05 0.00235   
## 1606 1.005 1.57e-05 0.00250   
## 1607 1.005 6.96e-06 0.00210   
## 1608 0.991 9.29e-04 0.00339 \*  
## 1609 1.005 6.93e-06 0.00199   
## 1610 1.007 4.89e-07 0.00433   
## 1611 1.005 2.45e-06 0.00240   
## 1612 1.005 1.82e-07 0.00235   
## 1613 1.005 5.40e-05 0.00313   
## 1614 1.002 1.52e-04 0.00259   
## 1615 1.005 8.74e-06 0.00271   
## 1616 1.006 1.33e-04 0.00458   
## 1617 1.000 1.70e-04 0.00206   
## 1618 1.006 2.79e-07 0.00346   
## 1619 1.004 8.66e-05 0.00304   
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## 1621 1.002 2.21e-04 0.00298   
## 1622 1.005 3.94e-05 0.00317   
## 1623 0.999 2.03e-04 0.00201   
## 1624 0.999 3.05e-04 0.00266   
## 1625 1.006 1.75e-05 0.00360   
## 1626 1.000 2.14e-04 0.00227   
## 1627 1.002 2.89e-04 0.00385   
## 1628 0.997 2.55e-04 0.00180   
## 1629 1.002 7.36e-05 0.00175   
## 1630 1.007 2.64e-07 0.00375   
## 1631 1.002 2.28e-04 0.00305   
## 1632 1.005 1.77e-06 0.00225   
## 1633 1.007 6.48e-06 0.00437   
## 1634 1.006 1.42e-05 0.00331   
## 1635 0.998 3.30e-04 0.00247   
## 1636 1.004 9.33e-06 0.00187   
## 1637 1.005 1.10e-05 0.00226   
## 1638 1.005 1.13e-05 0.00223   
## 1639 1.004 1.59e-04 0.00337   
## 1640 1.000 2.96e-04 0.00294   
## 1641 1.001 2.22e-04 0.00267   
## 1642 1.006 3.90e-06 0.00310   
## 1643 1.002 1.95e-04 0.00275   
## 1644 1.005 1.19e-04 0.00401   
## 1645 1.005 5.17e-05 0.00274   
## 1646 1.004 9.88e-05 0.00273   
## 1647 1.003 8.10e-05 0.00247   
## 1648 1.005 1.08e-04 0.00403   
## 1649 1.005 1.69e-06 0.00254   
## 1650 1.005 1.08e-05 0.00223   
## 1651 0.996 3.80e-04 0.00236   
## 1652 1.005 4.77e-05 0.00338   
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## 1657 1.003 1.24e-04 0.00291   
## 1658 1.000 8.15e-05 0.00127   
## 1659 0.999 2.65e-04 0.00239   
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## 1661 0.996 2.08e-04 0.00149   
## 1662 1.005 7.48e-06 0.00253   
## 1663 1.004 3.41e-05 0.00232   
## 1664 1.003 8.94e-05 0.00259   
## 1665 0.997 2.01e-04 0.00152   
## 1666 1.001 5.01e-04 0.00433   
## 1667 1.006 5.52e-06 0.00314   
## 1668 1.004 3.35e-05 0.00238   
## 1669 0.996 4.89e-04 0.00296   
## 1670 1.005 5.73e-06 0.00252   
## 1671 0.999 1.93e-04 0.00203   
## 1672 0.998 2.89e-04 0.00236   
## 1673 1.006 2.10e-05 0.00347   
## 1674 1.006 1.59e-05 0.00319   
## 1675 1.003 2.24e-04 0.00368   
## 1676 1.006 4.31e-06 0.00274   
## 1677 1.006 3.33e-06 0.00274   
## 1678 1.006 2.42e-07 0.00298   
## 1679 1.005 2.82e-08 0.00189   
## 1680 1.005 8.26e-05 0.00350   
## 1681 1.000 2.12e-04 0.00230   
## 1682 0.994 6.27e-04 0.00310   
## 1683 1.005 2.10e-05 0.00224   
## 1684 1.005 1.15e-08 0.00180   
## 1685 1.005 2.35e-04 0.00486   
## 1686 1.006 4.01e-05 0.00382   
## 1687 1.005 5.81e-06 0.00189   
## 1688 1.005 6.98e-05 0.00308   
## 1689 1.005 3.00e-06 0.00267   
## 1690 1.001 3.00e-04 0.00330   
## 1691 1.006 1.16e-05 0.00316   
## 1692 1.003 6.50e-05 0.00208   
## 1693 1.005 2.90e-05 0.00257   
## 1694 1.007 2.11e-06 0.00370   
## 1695 1.005 5.30e-06 0.00186   
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## 1697 0.993 4.67e-04 0.00212   
## 1698 1.002 2.33e-04 0.00331   
## 1699 1.004 1.28e-04 0.00332   
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## 1701 1.006 8.48e-05 0.00422   
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## 1703 0.999 3.45e-04 0.00293   
## 1704 0.999 3.29e-04 0.00289   
## 1705 1.006 1.10e-04 0.00487   
## 1706 1.000 3.40e-04 0.00308   
## 1707 1.006 2.34e-08 0.00300   
## 1708 1.004 6.88e-05 0.00255   
## 1709 1.007 9.77e-06 0.00385   
## 1710 1.006 8.90e-07 0.00330   
## 1711 1.005 1.12e-06 0.00179   
## 1712 1.002 1.46e-04 0.00238   
## 1713 1.006 1.07e-05 0.00287   
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## 1718 1.005 7.79e-05 0.00330   
## 1719 1.006 5.65e-06 0.00282   
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## 1723 1.004 9.64e-05 0.00321   
## 1724 1.006 6.11e-08 0.00289   
## 1725 1.006 5.44e-06 0.00309   
## 1726 1.001 2.23e-04 0.00268   
## 1727 1.002 8.46e-05 0.00191   
## 1728 1.005 9.55e-05 0.00358   
## 1729 1.004 2.18e-05 0.00182   
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## 1731 1.005 4.92e-06 0.00255   
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## 1733 1.002 1.25e-04 0.00241   
## 1734 1.006 1.27e-05 0.00321   
## 1735 1.001 7.52e-05 0.00129   
## 1736 1.006 9.10e-06 0.00281   
## 1737 1.003 2.14e-04 0.00369   
## 1738 1.003 1.50e-04 0.00310   
## 1739 1.005 1.60e-06 0.00262   
## 1740 1.004 9.08e-05 0.00288   
## 1741 1.005 6.21e-07 0.00209   
## 1742 1.005 4.28e-07 0.00245   
## 1743 1.004 1.24e-04 0.00312   
## 1744 1.005 1.71e-06 0.00199   
## 1745 1.003 1.38e-04 0.00293   
## 1746 1.006 4.93e-05 0.00372   
## 1747 1.002 1.73e-04 0.00273   
## 1748 1.005 1.33e-05 0.00252   
## 1749 1.007 5.71e-07 0.00375   
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## 1761 1.004 3.78e-05 0.00212   
## 1762 1.004 7.63e-06 0.00174   
## 1763 1.005 3.24e-07 0.00222   
## 1764 1.007 5.34e-06 0.00382   
## 1765 1.006 5.38e-05 0.00361   
## 1766 1.000 2.84e-04 0.00281   
## 1767 1.003 7.95e-05 0.00228   
## 1768 1.002 1.31e-04 0.00219   
## 1769 1.006 4.83e-06 0.00284   
## 1770 1.003 9.63e-05 0.00262   
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## 1775 0.999 4.32e-04 0.00354   
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## 1777 1.003 8.79e-05 0.00230   
## 1778 1.003 2.17e-04 0.00383   
## 1779 1.001 1.30e-04 0.00212   
## 1780 0.991 3.95e-04 0.00170 \*  
## 1781 1.005 6.27e-06 0.00189   
## 1782 0.996 5.67e-04 0.00309   
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## 1785 1.006 6.01e-05 0.00423   
## 1786 1.001 2.19e-04 0.00261   
## 1787 1.006 1.04e-05 0.00332   
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## 1789 1.005 8.04e-06 0.00268   
## 1790 1.005 1.67e-05 0.00255   
## 1791 1.002 2.32e-04 0.00325   
## 1792 1.003 1.82e-04 0.00339   
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## 1794 1.005 5.55e-06 0.00202   
## 1795 1.003 1.24e-04 0.00285   
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## 1805 1.002 1.51e-04 0.00242   
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## 1807 0.999 3.32e-04 0.00279   
## 1808 1.000 3.43e-04 0.00312   
## 1809 1.002 2.17e-04 0.00292   
## 1810 1.005 2.15e-06 0.00243   
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## 1816 1.003 1.04e-04 0.00247   
## 1817 1.001 2.29e-04 0.00294   
## 1818 1.001 2.42e-04 0.00284   
## 1819 0.999 1.86e-04 0.00181   
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## 1821 1.003 7.69e-05 0.00242   
## 1822 1.005 1.01e-04 0.00334   
## 1823 1.006 1.22e-04 0.00448   
## 1824 1.004 4.36e-06 0.00176   
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## 1827 1.006 1.22e-04 0.00436   
## 1828 1.000 6.44e-04 0.00465   
## 1829 1.003 5.47e-05 0.00197   
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## 1832 1.001 2.03e-04 0.00247   
## 1833 0.992 6.49e-04 0.00264   
## 1834 1.003 1.80e-04 0.00308   
## 1835 1.006 5.41e-05 0.00397   
## 1836 0.986 9.85e-04 0.00284 \*  
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## 1838 1.005 6.04e-05 0.00342   
## 1839 1.005 1.28e-05 0.00249   
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## 1841 1.007 2.20e-05 0.00446   
## 1842 1.004 4.10e-06 0.00127   
## 1843 1.004 3.73e-06 0.00170   
## 1844 1.004 1.14e-06 0.00149   
## 1845 0.996 2.21e-04 0.00158   
## 1846 1.006 5.59e-05 0.00371   
## 1847 1.002 3.46e-04 0.00384   
## 1848 0.996 2.82e-04 0.00189   
## 1849 0.996 2.56e-04 0.00174   
## 1850 1.003 3.97e-04 0.00460   
## 1851 1.005 9.68e-08 0.00219   
## 1852 0.994 7.25e-04 0.00330   
## 1853 1.005 2.83e-05 0.00293   
## 1854 0.999 2.76e-04 0.00242   
## 1855 0.997 4.86e-04 0.00306   
## 1856 1.006 1.28e-05 0.00305   
## 1857 0.997 2.60e-04 0.00184   
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## 1862 1.006 1.95e-05 0.00322   
## 1863 1.002 1.90e-04 0.00285   
## 1864 1.002 1.18e-04 0.00234   
## 1865 1.005 6.87e-06 0.00255   
## 1866 1.001 1.05e-04 0.00176   
## 1867 1.004 1.01e-04 0.00319   
## 1868 1.005 1.39e-06 0.00182   
## 1869 1.006 1.28e-05 0.00340   
## 1870 1.006 5.32e-06 0.00329   
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## 1873 1.005 2.03e-05 0.00231   
## 1874 1.004 3.91e-05 0.00218   
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## 1876 1.003 6.14e-05 0.00213   
## 1877 1.005 1.38e-04 0.00423   
## 1878 1.005 7.70e-05 0.00342   
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## 1880 1.005 1.05e-05 0.00273   
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## 1885 1.003 1.61e-04 0.00298   
## 1886 0.993 5.22e-04 0.00244   
## 1887 0.999 3.44e-04 0.00281   
## 1888 1.001 4.86e-04 0.00424   
## 1889 1.005 1.65e-04 0.00410   
## 1890 1.004 1.91e-04 0.00391   
## 1891 1.006 8.17e-06 0.00354   
## 1892 1.006 7.44e-06 0.00333   
## 1893 0.996 6.07e-04 0.00344   
## 1894 1.003 1.39e-04 0.00281   
## 1895 1.000 2.71e-04 0.00279   
## 1896 1.006 5.80e-06 0.00296   
## 1897 1.004 6.25e-06 0.00135   
## 1898 1.004 9.29e-06 0.00188   
## 1899 0.995 3.54e-04 0.00197   
## 1900 0.996 6.13e-04 0.00335   
## 1901 1.005 1.66e-05 0.00222   
## 1902 1.006 2.15e-05 0.00345   
## 1903 1.004 1.48e-04 0.00353   
## 1904 1.005 8.64e-06 0.00263   
## 1905 1.004 8.53e-06 0.00186   
## 1906 1.003 1.91e-04 0.00357   
## 1907 1.006 8.24e-06 0.00320   
## 1908 1.005 1.20e-06 0.00206   
## 1909 1.005 5.64e-05 0.00295   
## 1910 1.003 1.91e-04 0.00333   
## 1911 1.004 4.72e-05 0.00226   
## 1912 0.997 4.01e-04 0.00268   
## 1913 1.006 9.93e-06 0.00298   
## 1914 1.005 1.46e-05 0.00231   
## 1915 0.997 3.45e-04 0.00237   
## 1916 1.005 2.62e-05 0.00274   
## 1917 1.005 8.57e-07 0.00241   
## 1918 1.004 1.27e-04 0.00317   
## 1919 1.005 9.97e-07 0.00187   
## 1920 1.001 4.05e-04 0.00380   
## 1921 1.006 2.12e-06 0.00351   
## 1922 0.998 2.91e-04 0.00239   
## 1923 0.997 4.37e-04 0.00294   
## 1924 0.990 6.21e-04 0.00235 \*  
## 1925 0.997 3.71e-04 0.00256   
## 1926 1.004 3.64e-05 0.00193   
## 1927 1.003 5.21e-05 0.00203   
## 1928 1.004 2.32e-05 0.00177   
## 1929 1.004 1.17e-05 0.00160   
## 1930 1.001 2.27e-04 0.00265   
## 1931 1.005 1.52e-06 0.00229   
## 1932 1.006 4.49e-07 0.00280   
## 1933 1.005 2.18e-06 0.00239   
## 1934 1.004 2.53e-05 0.00176   
## 1935 1.004 4.62e-05 0.00257   
## 1936 1.005 8.57e-06 0.00279   
## 1937 1.002 1.44e-04 0.00251   
## 1938 1.004 8.32e-07 0.00164   
## 1939 1.001 1.61e-04 0.00225   
## 1940 0.998 5.28e-04 0.00353   
## 1941 1.005 1.48e-05 0.00260   
## 1942 1.004 1.22e-04 0.00315   
## 1943 1.006 8.03e-06 0.00339   
## 1944 1.002 1.24e-04 0.00227   
## 1945 1.006 5.92e-07 0.00358   
## 1946 0.996 6.12e-04 0.00335   
## 1947 1.004 8.25e-05 0.00284   
## 1948 1.002 3.29e-04 0.00376   
## 1949 1.002 1.87e-04 0.00267   
## 1950 1.002 6.43e-05 0.00156   
## 1951 1.002 1.70e-04 0.00267   
## 1952 1.007 4.26e-06 0.00373   
## 1953 1.006 2.42e-05 0.00319   
## 1954 1.001 2.16e-04 0.00271   
## 1955 1.005 1.08e-04 0.00405   
## 1956 1.005 1.08e-04 0.00361   
## 1957 1.005 1.99e-05 0.00279   
## 1958 1.002 2.04e-04 0.00285   
## 1959 1.000 1.87e-04 0.00213   
## 1960 1.007 2.91e-08 0.00367   
## 1961 0.993 5.28e-04 0.00250   
## 1962 1.004 1.26e-04 0.00330   
## 1963 0.983 1.18e-03 0.00295 \*  
## 1964 1.004 9.23e-05 0.00277   
## 1965 1.007 1.06e-05 0.00412   
## 1966 1.002 1.15e-04 0.00238   
## 1967 1.004 9.53e-06 0.00163   
## 1968 1.000 2.63e-04 0.00275   
## 1969 1.005 1.28e-05 0.00281   
## 1970 1.002 1.07e-04 0.00190   
## 1971 1.005 1.67e-06 0.00192   
## 1972 1.005 3.38e-05 0.00262   
## 1973 0.999 2.80e-04 0.00256   
## 1974 1.007 2.26e-06 0.00389   
## 1975 1.005 1.75e-08 0.00218   
## 1976 0.998 4.24e-04 0.00303   
## 1977 0.996 5.13e-04 0.00287   
## 1978 1.005 1.30e-05 0.00211   
## 1979 1.005 7.09e-05 0.00366   
## 1980 1.003 2.00e-04 0.00327   
## 1981 0.997 5.95e-04 0.00359   
## 1982 1.006 5.64e-06 0.00361   
## 1983 1.000 3.71e-04 0.00329   
## 1984 0.995 4.64e-04 0.00251   
## 1985 1.007 3.07e-05 0.00440   
## 1986 1.003 8.73e-05 0.00231   
## 1987 1.005 2.79e-05 0.00299   
## 1988 0.999 2.27e-04 0.00223   
## 1989 0.997 2.96e-04 0.00223   
## 1990 1.004 3.49e-06 0.00125   
## 1991 1.002 8.38e-05 0.00192   
## 1992 1.006 3.56e-05 0.00347   
## 1993 1.005 1.98e-05 0.00278   
## 1994 1.002 3.55e-04 0.00397   
## 1995 1.000 1.11e-04 0.00143   
## 1996 1.000 3.22e-04 0.00303   
## 1997 1.004 2.03e-05 0.00169   
## 1998 1.007 1.04e-06 0.00425   
## 1999 0.995 6.68e-04 0.00338   
## 2000 1.002 1.66e-04 0.00250   
## 2001 0.997 5.01e-04 0.00306   
## 2002 0.997 3.04e-04 0.00218   
## 2003 1.002 8.29e-05 0.00189   
## 2004 1.004 2.69e-04 0.00429   
## 2005 1.005 2.24e-05 0.00265   
## 2006 1.002 1.00e-04 0.00201   
## 2007 1.006 6.56e-06 0.00371   
## 2008 0.997 5.06e-04 0.00312   
## 2009 1.005 6.86e-07 0.00174   
## 2010 1.006 4.87e-05 0.00379   
## 2011 1.004 8.10e-05 0.00287   
## 2012 1.002 1.20e-04 0.00238   
## 2013 1.005 1.33e-07 0.00221   
## 2014 0.998 2.18e-04 0.00180   
## 2015 0.992 6.65e-04 0.00278   
## 2016 1.006 2.16e-05 0.00362   
## 2017 1.006 1.55e-06 0.00316   
## 2018 0.999 2.59e-04 0.00235   
## 2019 1.004 1.08e-04 0.00292   
## 2020 1.000 2.94e-04 0.00282   
## 2021 1.005 4.05e-07 0.00259   
## 2022 1.007 3.33e-05 0.00425   
## 2023 1.004 5.26e-06 0.00170   
## 2024 1.005 3.42e-06 0.00218   
## 2025 0.991 9.95e-04 0.00359 \*  
## 2026 1.005 1.31e-04 0.00416   
## 2027 1.004 1.64e-04 0.00351   
## 2028 1.002 1.77e-04 0.00259   
## 2029 0.993 4.14e-04 0.00204   
## 2030 1.006 2.64e-06 0.00301   
## 2031 1.007 3.24e-05 0.00414   
## 2032 0.997 4.24e-04 0.00282   
## 2033 0.996 3.27e-04 0.00211   
## 2034 1.001 1.69e-04 0.00224   
## 2035 1.000 1.51e-04 0.00178   
## 2036 1.005 1.77e-05 0.00225   
## 2037 1.005 6.43e-06 0.00260   
## 2038 1.006 8.28e-05 0.00456   
## 2039 1.000 2.13e-04 0.00225   
## 2040 1.004 9.36e-06 0.00160   
## 2041 1.005 9.96e-06 0.00265   
## 2042 1.004 1.84e-04 0.00376   
## 2043 1.002 2.46e-04 0.00322   
## 2044 1.003 1.46e-04 0.00285   
## 2045 1.005 5.48e-05 0.00347   
## 2046 1.007 5.91e-06 0.00408   
## 2047 1.006 1.04e-05 0.00293   
## 2048 1.003 1.27e-04 0.00254   
## 2049 0.996 4.60e-04 0.00282   
## 2050 0.999 2.21e-04 0.00210   
## 2051 1.004 9.44e-05 0.00276   
## 2052 1.004 8.54e-05 0.00293   
## 2053 0.998 5.61e-04 0.00366   
## 2054 1.005 2.63e-05 0.00250   
## 2055 1.002 1.68e-04 0.00271   
## 2056 1.004 1.77e-05 0.00208   
## 2057 0.995 4.85e-04 0.00269   
## 2058 1.006 9.26e-08 0.00274   
## 2059 1.006 2.67e-06 0.00309   
## 2060 1.005 3.47e-07 0.00172   
## 2061 1.001 1.94e-04 0.00251   
## 2062 1.006 8.18e-08 0.00303   
## 2063 1.004 6.51e-05 0.00248   
## 2064 1.006 7.79e-05 0.00405   
## 2065 1.004 1.23e-04 0.00308   
## 2066 0.991 7.45e-04 0.00292 \*  
## 2067 1.007 1.79e-06 0.00372   
## 2068 1.005 4.09e-08 0.00222   
## 2069 1.004 1.32e-05 0.00156   
## 2070 0.998 5.68e-04 0.00376   
## 2071 1.002 1.99e-04 0.00282   
## 2072 1.005 5.92e-05 0.00290   
## 2073 1.001 1.13e-04 0.00164   
## 2074 1.005 4.66e-05 0.00300   
## 2075 1.006 4.52e-05 0.00388   
## 2076 1.006 6.93e-07 0.00344   
## 2077 1.001 1.80e-04 0.00256   
## 2078 1.005 2.76e-05 0.00276   
## 2079 0.993 4.11e-04 0.00204   
## 2080 1.001 2.53e-04 0.00289   
## 2081 1.002 1.13e-04 0.00214   
## 2082 1.000 2.44e-04 0.00265   
## 2083 0.998 5.19e-04 0.00342   
## 2084 1.005 4.62e-05 0.00282   
## 2085 1.007 1.69e-06 0.00408   
## 2086 1.006 5.91e-05 0.00420   
## 2087 1.005 2.86e-06 0.00220   
## 2088 1.005 2.90e-05 0.00262   
## 2089 1.005 3.53e-05 0.00294   
## 2090 1.004 1.19e-05 0.00161   
## 2091 1.002 8.01e-05 0.00187   
## 2092 0.991 4.29e-04 0.00181 \*  
## 2093 0.997 3.18e-04 0.00214   
## 2094 0.999 4.95e-04 0.00368   
## 2095 1.003 1.33e-04 0.00282   
## 2096 1.005 4.09e-05 0.00315   
## 2097 0.996 5.31e-04 0.00310   
## 2098 1.000 2.91e-04 0.00297   
## 2099 0.998 2.76e-04 0.00222   
## 2100 1.003 9.56e-05 0.00252   
## 2101 1.001 1.05e-04 0.00184   
## 2102 1.006 7.47e-07 0.00328   
## 2103 1.001 2.12e-04 0.00270   
## 2104 1.005 2.50e-05 0.00306   
## 2105 1.005 1.74e-06 0.00243   
## 2106 1.004 2.01e-05 0.00171   
## 2107 1.005 3.92e-08 0.00175   
## 2108 1.005 9.55e-06 0.00248   
## 2109 1.003 9.46e-05 0.00258   
## 2110 1.006 9.50e-06 0.00303   
## 2111 1.006 1.03e-06 0.00285   
## 2112 0.998 3.59e-04 0.00280   
## 2113 1.006 1.27e-05 0.00313   
## 2114 1.000 2.24e-04 0.00241   
## 2115 1.005 9.77e-07 0.00213   
## 2116 1.005 2.42e-06 0.00205   
## 2117 1.004 2.35e-05 0.00176   
## 2118 1.002 2.22e-04 0.00330   
## 2119 1.000 1.42e-04 0.00183   
## 2120 1.000 3.92e-04 0.00335   
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## 2129 1.002 8.24e-05 0.00194   
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## 2132 0.999 3.71e-04 0.00307   
## 2133 1.006 2.74e-05 0.00398   
## 2134 1.006 1.36e-05 0.00301   
## 2135 1.000 2.03e-04 0.00227   
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## 2139 1.005 1.80e-04 0.00475   
## 2140 1.003 9.22e-05 0.00216   
## 2141 1.001 1.65e-04 0.00212   
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## 2146 0.998 2.23e-04 0.00183   
## 2147 1.006 1.22e-08 0.00320   
## 2148 1.001 1.59e-04 0.00209   
## 2149 1.001 1.88e-04 0.00247   
## 2150 1.005 3.23e-07 0.00226   
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## 2154 1.005 1.22e-07 0.00254   
## 2155 1.006 1.27e-05 0.00328   
## 2156 1.005 2.63e-05 0.00233   
## 2157 1.002 1.22e-04 0.00209   
## 2158 1.002 2.49e-04 0.00325   
## 2159 1.002 1.19e-04 0.00220   
## 2160 1.006 4.43e-06 0.00334   
## 2161 1.004 7.20e-06 0.00141   
## 2162 1.006 2.75e-05 0.00338   
## 2163 1.004 5.62e-05 0.00243   
## 2164 1.003 9.17e-05 0.00248   
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## 2167 1.002 1.65e-04 0.00279   
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## 2172 1.005 3.65e-06 0.00260   
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## 2175 1.004 9.89e-06 0.00166   
## 2176 1.007 8.93e-06 0.00425   
## 2177 1.005 1.41e-05 0.00248   
## 2178 1.005 3.65e-05 0.00264   
## 2179 1.003 8.64e-05 0.00220   
## 2180 1.005 7.28e-05 0.00316   
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## 2183 1.006 5.12e-08 0.00277   
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## 2185 1.005 6.70e-06 0.00253   
## 2186 1.005 5.33e-06 0.00273   
## 2187 1.004 4.60e-05 0.00254   
## 2188 1.006 7.41e-10 0.00348   
## 2189 1.006 8.79e-07 0.00314   
## 2190 1.002 8.10e-05 0.00185   
## 2191 1.005 1.46e-05 0.00215   
## 2192 1.004 1.05e-05 0.00190   
## 2193 1.008 1.07e-05 0.00494   
## 2194 1.005 1.01e-04 0.00361   
## 2195 1.005 2.46e-08 0.00222   
## 2196 1.005 7.07e-05 0.00309   
## 2197 1.006 5.33e-06 0.00281   
## 2198 1.002 1.22e-04 0.00244   
## 2199 1.006 6.16e-09 0.00303   
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## 2201 1.001 2.21e-04 0.00283   
## 2202 0.998 4.59e-04 0.00313   
## 2203 1.003 1.45e-04 0.00293   
## 2204 1.006 3.67e-05 0.00344   
## 2205 1.005 4.35e-05 0.00316   
## 2206 1.006 1.13e-05 0.00336   
## 2207 1.003 1.05e-04 0.00273   
## 2208 1.004 7.48e-06 0.00151   
## 2209 1.006 1.13e-05 0.00310   
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## 2211 1.007 4.59e-08 0.00427   
## 2212 1.006 7.21e-05 0.00428   
## 2213 1.004 1.25e-05 0.00196   
## 2214 1.005 1.40e-05 0.00272   
## 2215 0.999 3.60e-04 0.00285   
## 2216 1.006 1.93e-05 0.00317   
## 2217 1.004 5.47e-05 0.00249   
## 2218 1.000 1.74e-04 0.00212   
## 2219 1.000 1.76e-04 0.00216   
## 2220 1.001 1.88e-04 0.00265   
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## 2223 1.005 1.45e-07 0.00242   
## 2224 1.006 3.17e-05 0.00370   
## 2225 0.999 2.19e-04 0.00217   
## 2226 1.005 7.67e-07 0.00175   
## 2227 1.000 9.36e-05 0.00128   
## 2228 1.004 6.01e-07 0.00152   
## 2229 1.007 3.50e-06 0.00413   
## 2230 1.007 2.35e-05 0.00419   
## 2231 1.005 2.94e-05 0.00303   
## 2232 0.997 3.06e-04 0.00210   
## 2233 1.005 1.26e-04 0.00399   
## 2234 0.997 4.40e-04 0.00281   
## 2235 1.007 7.23e-06 0.00395   
## 2236 1.006 5.70e-06 0.00308   
## 2237 1.005 1.53e-07 0.00221   
## 2238 1.005 1.81e-06 0.00180   
## 2239 1.003 1.49e-04 0.00318   
## 2240 0.991 7.79e-04 0.00294 \*  
## 2241 1.006 8.18e-06 0.00337   
## 2242 1.005 1.64e-04 0.00432   
## 2243 1.004 1.51e-07 0.00158   
## 2244 1.005 5.97e-05 0.00304   
## 2245 1.003 1.45e-04 0.00303   
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## 2248 1.005 4.49e-06 0.00266   
## 2249 1.006 4.27e-05 0.00398   
## 2250 1.007 3.31e-08 0.00370   
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## 2252 1.006 7.10e-06 0.00331   
## 2253 1.006 6.08e-06 0.00303   
## 2254 1.006 7.04e-08 0.00338   
## 2255 1.005 8.29e-06 0.00251   
## 2256 1.000 3.19e-04 0.00322   
## 2257 1.004 7.03e-05 0.00290   
## 2258 1.002 7.96e-05 0.00186   
## 2259 1.002 5.12e-04 0.00497   
## 2260 1.005 5.73e-07 0.00239   
## 2261 1.004 1.73e-04 0.00369   
## 2262 1.005 5.97e-05 0.00344   
## 2263 1.005 1.98e-08 0.00221   
## 2264 1.005 8.87e-07 0.00225   
## 2265 1.001 1.19e-04 0.00177   
## 2266 1.004 9.67e-05 0.00313   
## 2267 1.000 2.67e-04 0.00273   
## 2268 1.003 1.43e-04 0.00295   
## 2269 1.004 1.71e-06 0.00159   
## 2270 1.000 4.01e-04 0.00341   
## 2271 1.002 1.03e-04 0.00212   
## 2272 1.003 2.05e-04 0.00346   
## 2273 0.994 6.41e-04 0.00300   
## 2274 1.003 1.35e-04 0.00292   
## 2275 1.007 2.25e-06 0.00396   
## 2276 0.996 5.91e-04 0.00332   
## 2277 0.999 3.42e-04 0.00301   
## 2278 0.998 6.28e-04 0.00387   
## 2279 1.001 7.95e-05 0.00151   
## 2280 1.005 8.52e-05 0.00324   
## 2281 0.995 7.17e-04 0.00363   
## 2282 1.004 2.46e-04 0.00436   
## 2283 0.991 7.50e-04 0.00287 \*  
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## 2285 1.006 3.05e-07 0.00342   
## 2286 1.001 3.97e-04 0.00407   
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## 2291 0.999 3.24e-04 0.00288   
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## 2293 0.993 5.25e-04 0.00242   
## 2294 1.006 2.35e-05 0.00348   
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## 2296 0.995 4.37e-04 0.00238   
## 2297 0.998 4.58e-04 0.00337   
## 2298 1.005 9.63e-06 0.00254   
## 2299 0.996 3.27e-04 0.00203   
## 2300 1.006 2.36e-05 0.00334   
## 2301 1.001 1.94e-04 0.00249   
## 2302 0.997 1.57e-04 0.00129   
## 2303 1.005 1.13e-04 0.00370   
## 2304 1.006 4.07e-06 0.00319   
## 2305 1.006 5.53e-05 0.00366   
## 2306 1.006 2.01e-06 0.00340   
## 2307 1.006 1.27e-04 0.00431   
## 2308 1.004 4.62e-06 0.00130   
## 2309 1.003 8.41e-05 0.00211   
## 2310 1.005 9.16e-06 0.00196   
## 2311 1.005 6.35e-05 0.00323   
## 2312 1.004 2.08e-05 0.00166   
## 2313 1.005 3.40e-08 0.00221   
## 2314 1.006 8.44e-08 0.00356   
## 2315 0.999 3.19e-04 0.00270   
## 2316 1.005 3.24e-06 0.00196   
## 2317 1.005 1.26e-04 0.00380   
## 2318 1.005 2.69e-06 0.00215   
## 2319 1.001 1.23e-04 0.00176   
## 2320 1.003 2.68e-04 0.00375   
## 2321 1.004 3.57e-05 0.00236   
## 2322 1.006 5.26e-06 0.00282   
## 2323 1.000 3.37e-04 0.00307   
## 2324 1.000 3.12e-04 0.00302   
## 2325 1.006 3.68e-05 0.00338   
## 2326 1.005 1.02e-04 0.00350   
## 2327 1.004 3.40e-05 0.00239   
## 2328 1.006 1.99e-05 0.00331   
## 2329 1.007 1.45e-06 0.00370   
## 2330 0.997 4.01e-04 0.00257   
## 2331 1.003 1.09e-04 0.00271   
## 2332 1.000 2.02e-04 0.00227   
## 2333 0.997 3.43e-04 0.00243   
## 2334 1.005 1.62e-05 0.00282   
## 2335 1.003 7.13e-05 0.00206   
## 2336 1.006 2.15e-05 0.00387   
## 2337 1.005 4.73e-07 0.00264   
## 2338 1.003 2.05e-04 0.00362   
## 2339 1.002 1.46e-04 0.00241   
## 2340 1.008 7.50e-05 0.00589   
## 2341 1.005 4.24e-05 0.00332   
## 2342 1.006 1.69e-05 0.00351   
## 2343 1.005 2.25e-05 0.00248   
## 2344 1.008 8.62e-06 0.00506   
## 2345 1.007 3.12e-06 0.00371   
## 2346 0.995 3.25e-04 0.00196   
## 2347 1.005 1.25e-05 0.00283   
## 2348 1.005 3.53e-05 0.00259   
## 2349 0.996 2.76e-04 0.00188   
## 2350 1.005 3.06e-06 0.00262   
## 2351 1.006 1.38e-05 0.00326   
## 2352 1.005 4.15e-05 0.00258   
## 2353 1.007 9.20e-08 0.00382   
## 2354 1.005 1.87e-08 0.00216   
## 2355 1.006 7.92e-05 0.00417   
## 2356 1.005 6.72e-06 0.00194   
## 2357 0.997 3.80e-04 0.00249   
## 2358 1.006 9.02e-05 0.00450   
## 2359 1.001 9.27e-05 0.00166   
## 2360 1.000 3.03e-04 0.00296   
## 2361 1.002 4.19e-04 0.00447   
## 2362 1.002 8.33e-05 0.00193   
## 2363 1.003 1.16e-04 0.00264   
## 2364 1.005 9.28e-08 0.00250   
## 2365 1.006 1.14e-07 0.00355   
## 2366 1.005 3.51e-08 0.00233   
## 2367 1.004 8.20e-05 0.00254   
## 2368 1.004 1.76e-05 0.00192   
## 2369 1.006 1.93e-08 0.00345   
## 2370 1.004 2.11e-05 0.00178   
## 2371 1.007 9.08e-08 0.00365   
## 2372 1.003 1.36e-04 0.00308   
## 2373 1.006 1.10e-05 0.00355   
## 2374 0.998 2.53e-04 0.00216   
## 2375 1.001 2.68e-04 0.00319   
## 2376 1.005 7.01e-05 0.00327   
## 2377 1.004 7.06e-06 0.00146   
## 2378 1.006 1.31e-05 0.00334   
## 2379 1.003 1.36e-04 0.00297   
## 2380 1.001 2.11e-04 0.00281   
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## 2382 1.006 2.34e-05 0.00329   
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## 2387 1.001 2.12e-04 0.00260   
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## 2392 1.004 1.60e-04 0.00363   
## 2393 1.003 6.17e-05 0.00191   
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## 2395 1.002 3.42e-04 0.00406   
## 2396 1.005 2.69e-04 0.00512   
## 2397 1.005 1.43e-04 0.00437   
## 2398 1.005 1.79e-05 0.00220   
## 2399 1.005 9.52e-06 0.00274   
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## 2415 1.005 3.51e-05 0.00312   
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## 2418 0.996 2.83e-04 0.00192   
## 2419 1.004 5.05e-06 0.00132   
## 2420 0.993 6.78e-04 0.00294   
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## 2423 1.000 3.61e-04 0.00336   
## 2424 1.000 3.04e-04 0.00303   
## 2425 1.006 3.03e-05 0.00347   
## 2426 1.006 2.51e-05 0.00380   
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## 2430 1.004 2.09e-05 0.00218   
## 2431 1.004 1.63e-04 0.00352   
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## 2459 0.997 4.55e-04 0.00292   
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## 2489 0.997 5.16e-04 0.00319   
## 2490 0.998 2.53e-04 0.00205   
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## 2492 1.005 1.33e-06 0.00209   
## 2493 1.005 2.86e-05 0.00237   
## 2494 1.005 4.43e-05 0.00296   
## 2495 1.007 4.73e-06 0.00399   
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## 2524 1.002 1.32e-04 0.00230   
## 2525 0.991 1.13e-03 0.00406 \*  
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## 2527 1.006 4.53e-09 0.00304   
## 2528 1.003 1.68e-04 0.00322   
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## 2530 1.006 3.67e-06 0.00288   
## 2531 1.006 1.18e-06 0.00285   
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## 2533 1.006 4.00e-06 0.00287   
## 2534 1.006 7.07e-05 0.00446   
## 2535 1.005 2.19e-06 0.00219   
## 2536 1.005 9.71e-08 0.00229   
## 2537 1.007 3.42e-06 0.00391   
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## 2539 1.003 2.14e-04 0.00342   
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## 2560 0.998 3.96e-04 0.00291   
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## 2589 1.005 8.03e-06 0.00216   
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## 2603 1.002 8.58e-05 0.00191   
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## 2605 0.996 3.90e-04 0.00246   
## 2606 0.995 9.08e-04 0.00434   
## 2607 1.001 1.32e-04 0.00184   
## 2608 1.004 1.78e-04 0.00407   
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## 2613 0.993 4.22e-04 0.00207   
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## 2617 1.006 4.20e-06 0.00287   
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## 2621 1.005 6.47e-05 0.00292   
## 2622 1.007 1.01e-05 0.00429   
## 2623 1.005 2.96e-06 0.00209   
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## 2627 1.005 5.67e-05 0.00307   
## 2628 1.007 1.08e-05 0.00430   
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## 2652 1.005 1.87e-05 0.00298   
## 2653 1.004 1.18e-04 0.00301   
## 2654 1.005 1.60e-06 0.00233   
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## 2657 1.007 1.01e-06 0.00456   
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## 2717 1.003 1.05e-04 0.00235   
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## 2759 1.007 1.17e-05 0.00402   
## 2760 1.006 9.70e-06 0.00360   
## 2761 0.998 1.30e-04 0.00131   
## 2762 1.005 1.04e-05 0.00216   
## 2763 1.006 1.21e-04 0.00429   
## 2764 1.004 7.24e-06 0.00145   
## 2765 0.990 5.85e-04 0.00219 \*  
## 2766 1.002 1.04e-04 0.00213   
## 2767 1.005 1.31e-04 0.00372   
## 2768 1.005 2.02e-05 0.00288   
## 2769 1.005 1.14e-04 0.00351   
## 2770 1.003 6.15e-05 0.00219   
## 2771 0.990 1.04e-03 0.00367 \*  
## 2772 1.001 2.05e-04 0.00266   
## 2773 1.004 1.36e-05 0.00152   
## 2774 1.001 2.13e-04 0.00264   
## 2775 1.003 7.58e-05 0.00192   
## 2776 0.990 9.32e-04 0.00327 \*  
## 2777 1.004 3.25e-04 0.00465   
## 2778 1.006 1.36e-05 0.00312   
## 2779 1.003 1.37e-04 0.00297   
## 2780 1.004 2.66e-04 0.00424   
## 2781 1.004 1.83e-04 0.00374   
## 2782 1.006 1.19e-05 0.00307   
## 2783 1.006 4.26e-06 0.00305   
## 2784 1.007 9.91e-06 0.00379   
## 2785 0.999 2.47e-04 0.00227   
## 2786 0.993 6.73e-04 0.00292   
## 2787 1.006 1.63e-06 0.00358   
## 2788 1.004 5.29e-05 0.00210   
## 2789 0.998 2.88e-04 0.00239   
## 2790 1.005 2.34e-05 0.00237   
## 2791 1.002 7.67e-05 0.00192   
## 2792 1.005 1.14e-04 0.00349   
## 2793 1.004 5.37e-05 0.00256   
## 2794 1.002 9.44e-05 0.00206   
## 2795 1.006 2.28e-06 0.00286   
## 2796 1.004 9.97e-06 0.00191   
## 2797 1.005 3.46e-05 0.00268   
## 2798 1.001 2.15e-04 0.00287   
## 2799 1.005 4.53e-07 0.00228   
## 2800 0.997 7.90e-04 0.00448   
## 2801 1.005 2.43e-05 0.00297   
## 2802 1.006 6.29e-06 0.00303   
## 2803 1.005 7.84e-06 0.00205   
## 2804 1.000 4.97e-04 0.00398   
## 2805 1.005 1.35e-04 0.00429   
## 2806 1.005 6.23e-05 0.00355   
## 2807 1.005 1.72e-07 0.00172   
## 2808 0.992 6.47e-04 0.00276   
## 2809 1.006 1.41e-06 0.00317   
## 2810 1.007 7.47e-06 0.00415   
## 2811 1.003 2.18e-04 0.00339   
## 2812 1.006 5.90e-06 0.00315   
## 2813 1.005 8.19e-08 0.00183   
## 2814 0.999 4.33e-04 0.00332   
## 2815 1.004 5.93e-05 0.00232   
## 2816 1.005 4.81e-07 0.00240   
## 2817 1.004 7.64e-05 0.00244   
## 2818 0.989 1.14e-03 0.00372 \*  
## 2819 1.005 1.02e-06 0.00254   
## 2820 1.006 4.30e-06 0.00281   
## 2821 1.004 5.17e-05 0.00214   
## 2822 1.004 6.11e-05 0.00266   
## 2823 1.002 1.17e-04 0.00217   
## 2824 1.006 1.25e-05 0.00299   
## 2825 1.002 1.02e-04 0.00186   
## 2826 1.006 8.97e-06 0.00329   
## 2827 1.005 1.20e-04 0.00372   
## 2828 1.006 2.22e-05 0.00342   
## 2829 1.006 8.13e-06 0.00353   
## 2830 1.004 1.41e-07 0.00161   
## 2831 1.007 2.18e-08 0.00372   
## 2832 1.003 1.28e-04 0.00278   
## 2833 0.992 4.04e-04 0.00178   
## 2834 1.005 8.88e-10 0.00182   
## 2835 1.005 1.47e-06 0.00183   
## 2836 1.005 9.71e-05 0.00378   
## 2837 1.003 1.47e-04 0.00288   
## 2838 1.005 1.50e-04 0.00429   
## 2839 1.005 2.03e-06 0.00196   
## 2840 1.006 8.93e-05 0.00404   
## 2841 1.001 3.28e-04 0.00357   
## 2842 1.003 2.24e-04 0.00343   
## 2843 1.002 1.85e-04 0.00283   
## 2844 1.005 2.79e-05 0.00285   
## 2845 1.004 1.55e-05 0.00158   
## 2846 1.004 1.64e-04 0.00370   
## 2847 1.005 2.47e-06 0.00251   
## 2848 1.005 9.72e-06 0.00245   
## 2849 1.005 6.39e-05 0.00293   
## 2850 1.005 1.27e-04 0.00414   
## 2851 1.005 7.13e-07 0.00170   
## 2852 1.001 1.56e-04 0.00207   
## 2853 1.007 8.09e-07 0.00375   
## 2854 1.004 4.29e-05 0.00242   
## 2855 1.006 2.46e-06 0.00290   
## 2856 1.004 1.60e-04 0.00352   
## 2857 1.003 7.49e-05 0.00196   
## 2858 1.001 1.24e-04 0.00182   
## 2859 1.002 8.00e-05 0.00180   
## 2860 1.004 1.53e-04 0.00364   
## 2861 1.006 2.25e-06 0.00291   
## 2862 0.999 2.68e-04 0.00234   
## 2863 1.004 2.47e-06 0.00125   
## 2864 1.000 1.94e-04 0.00228   
## 2865 1.003 6.24e-05 0.00190   
## 2866 1.005 4.34e-05 0.00307   
## 2867 1.003 1.06e-04 0.00230   
## 2868 1.005 8.21e-09 0.00188   
## 2869 1.002 1.16e-04 0.00199   
## 2870 1.005 5.07e-06 0.00242   
## 2871 1.002 1.33e-04 0.00221   
## 2872 1.004 1.01e-05 0.00165   
## 2873 0.996 4.77e-04 0.00291   
## 2874 1.000 2.97e-04 0.00308   
## 2875 0.996 5.22e-04 0.00305   
## 2876 0.999 2.63e-04 0.00230   
## 2877 1.005 2.74e-05 0.00312   
## 2878 1.001 1.80e-04 0.00233   
## 2879 1.006 2.55e-06 0.00287   
## 2880 1.006 9.21e-06 0.00325   
## 2881 1.006 9.31e-06 0.00317   
## 2882 1.006 3.86e-05 0.00390   
## 2883 0.998 2.19e-04 0.00176   
## 2884 1.003 1.49e-04 0.00313   
## 2885 1.007 6.30e-06 0.00450   
## 2886 0.998 6.57e-04 0.00401   
## 2887 1.002 7.93e-05 0.00188   
## 2888 1.004 2.35e-05 0.00176   
## 2889 0.994 5.65e-04 0.00270   
## 2890 0.986 9.10e-04 0.00265 \*  
## 2891 1.005 5.33e-06 0.00219   
## 2892 1.004 1.44e-05 0.00163   
## 2893 1.005 5.34e-07 0.00229   
## 2894 1.007 1.88e-04 0.00555   
## 2895 1.007 1.95e-05 0.00406   
## 2896 1.003 1.37e-04 0.00271   
## 2897 1.007 6.01e-06 0.00373   
## 2898 0.999 3.03e-04 0.00272   
## 2899 1.006 9.80e-05 0.00404   
## 2900 0.998 2.36e-04 0.00207   
## 2901 1.004 1.24e-04 0.00338   
## 2902 1.004 9.00e-05 0.00276   
## 2903 1.002 1.40e-04 0.00236   
## 2904 1.003 1.71e-04 0.00300   
## 2905 1.005 1.93e-06 0.00262   
## 2906 1.005 5.20e-06 0.00233   
## 2907 1.001 2.32e-04 0.00281   
## 2908 1.000 2.88e-04 0.00290   
## 2909 1.006 1.22e-07 0.00332   
## 2910 1.004 9.73e-05 0.00300   
## 2911 1.006 5.23e-06 0.00304   
## 2912 1.007 5.20e-05 0.00466   
## 2913 1.006 4.83e-06 0.00284   
## 2914 1.003 4.19e-04 0.00492   
## 2915 1.007 5.46e-05 0.00453   
## 2916 1.005 3.21e-05 0.00300   
## 2917 1.003 5.16e-05 0.00189   
## 2918 1.000 3.07e-04 0.00313   
## 2919 1.006 7.79e-05 0.00440   
## 2920 1.000 1.46e-04 0.00177   
## 2921 1.005 6.23e-05 0.00346   
## 2922 1.005 9.53e-07 0.00256   
## 2923 0.997 1.62e-04 0.00129   
## 2924 1.007 1.52e-05 0.00415   
## 2925 1.007 4.58e-06 0.00421   
## 2926 1.005 2.88e-06 0.00225   
## 2927 1.001 3.94e-04 0.00386   
## 2928 1.004 7.95e-05 0.00300   
## 2929 1.006 1.22e-06 0.00279   
## 2930 1.005 1.25e-05 0.00258   
## 2931 1.005 1.60e-05 0.00245   
## 2932 1.001 1.74e-04 0.00228   
## 2933 1.005 4.21e-05 0.00291   
## 2934 1.006 5.47e-05 0.00353   
## 2935 1.002 3.70e-04 0.00413   
## 2936 0.999 6.94e-04 0.00448   
## 2937 1.006 2.34e-06 0.00329   
## 2938 1.004 3.41e-07 0.00163   
## 2939 1.005 8.66e-06 0.00256   
## 2940 1.006 1.57e-04 0.00466   
## 2941 1.001 1.63e-04 0.00226   
## 2942 1.005 1.05e-04 0.00342   
## 2943 1.004 9.69e-05 0.00318   
## 2944 1.001 1.71e-04 0.00221   
## 2945 1.006 3.59e-07 0.00287   
## 2946 1.004 3.48e-05 0.00189   
## 2947 1.005 5.72e-05 0.00352   
## 2948 1.005 1.55e-05 0.00215   
## 2949 1.002 1.86e-04 0.00293   
## 2950 1.001 1.20e-04 0.00200   
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## 2952 1.003 1.06e-04 0.00260   
## 2953 0.997 3.26e-04 0.00230   
## 2954 1.004 2.28e-05 0.00208   
## 2955 1.005 1.58e-04 0.00399   
## 2956 1.002 1.59e-04 0.00258   
## 2957 1.004 6.82e-05 0.00255   
## 2958 0.999 5.61e-04 0.00398   
## 2959 1.005 1.12e-05 0.00196   
## 2960 1.005 3.93e-05 0.00304   
## 2961 0.996 5.39e-04 0.00303   
## 2962 1.000 3.99e-04 0.00358   
## 2963 1.005 3.35e-06 0.00246   
## 2964 1.000 4.09e-04 0.00355   
## 2965 1.006 2.23e-07 0.00307   
## 2966 1.002 9.74e-05 0.00206   
## 2967 1.005 4.62e-06 0.00203   
## 2968 1.006 2.10e-06 0.00301   
## 2969 0.995 6.87e-04 0.00341   
## 2970 1.000 3.07e-04 0.00287   
## 2971 1.003 1.27e-04 0.00286   
## 2972 1.005 4.41e-05 0.00302   
## 2973 1.004 4.14e-05 0.00207   
## 2974 1.003 1.56e-04 0.00305   
## 2975 1.007 1.14e-05 0.00423   
## 2976 1.006 3.32e-06 0.00280   
## 2977 1.005 9.07e-06 0.00265   
## 2978 1.005 5.13e-07 0.00200   
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## 2980 1.005 1.60e-05 0.00216   
## 2981 1.004 1.05e-04 0.00337   
## 2982 1.006 4.50e-05 0.00349   
## 2983 1.005 1.05e-10 0.00173   
## 2984 1.006 7.34e-06 0.00292   
## 2985 1.005 4.21e-05 0.00266   
## 2986 1.000 3.24e-04 0.00318   
## 2987 1.004 2.07e-04 0.00431   
## 2988 1.005 9.34e-05 0.00357   
## 2989 1.005 1.28e-05 0.00219   
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## 2992 1.004 1.22e-04 0.00313   
## 2993 0.997 5.95e-04 0.00359   
## 2994 0.998 2.19e-04 0.00191   
## 2995 1.004 9.90e-06 0.00187   
## 2996 1.002 8.52e-05 0.00184   
## 2997 1.004 1.66e-05 0.00158   
## 2998 1.005 2.50e-05 0.00258   
## 2999 0.999 3.78e-04 0.00317   
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## 3001 1.005 5.54e-05 0.00280   
## 3002 1.002 8.93e-05 0.00188   
## 3003 0.999 2.54e-04 0.00246   
## 3004 1.004 8.11e-06 0.00146   
## 3005 1.004 8.45e-05 0.00264   
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## 3008 1.006 2.40e-06 0.00272   
## 3009 1.003 1.43e-04 0.00274   
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## 3011 1.005 4.42e-06 0.00224   
## 3012 0.999 2.39e-04 0.00226   
## 3013 1.005 2.27e-05 0.00294   
## 3014 1.006 2.18e-08 0.00353   
## 3015 0.992 7.12e-04 0.00287   
## 3016 1.006 9.35e-06 0.00372   
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## 3018 1.004 2.30e-05 0.00177   
## 3019 1.004 1.98e-05 0.00194   
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## 3023 1.004 3.50e-05 0.00183   
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## 3025 0.995 4.80e-04 0.00265   
## 3026 1.002 8.09e-05 0.00185   
## 3027 0.999 3.86e-04 0.00305   
## 3028 1.005 1.25e-06 0.00215   
## 3029 1.005 1.11e-05 0.00285   
## 3030 1.003 1.05e-04 0.00252   
## 3031 1.000 2.13e-04 0.00226   
## 3032 1.007 1.88e-06 0.00451   
## 3033 1.004 9.67e-07 0.00122   
## 3034 1.005 6.57e-05 0.00319   
## 3035 1.007 3.18e-07 0.00382   
## 3036 0.988 7.31e-04 0.00243 \*  
## 3037 1.003 1.21e-04 0.00269   
## 3038 0.994 8.56e-04 0.00384   
## 3039 1.002 3.82e-04 0.00403   
## 3040 0.998 2.18e-04 0.00179   
## 3041 1.006 3.31e-05 0.00337   
## 3042 1.005 4.08e-05 0.00258   
## 3043 0.999 4.56e-04 0.00341   
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## 3045 0.991 4.10e-04 0.00172 \*  
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## 3052 1.006 1.45e-06 0.00325   
## 3053 1.004 1.28e-06 0.00122   
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## 3057 1.003 1.12e-04 0.00254   
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## 3060 1.000 1.14e-04 0.00139   
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## 3062 0.997 2.26e-04 0.00166   
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## 3065 1.004 3.25e-05 0.00181   
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## 3067 1.006 2.36e-06 0.00281   
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## 3070 1.005 3.71e-05 0.00285   
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## 3075 1.000 3.59e-04 0.00345   
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## 3079 1.005 1.53e-07 0.00231   
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## 3084 1.006 1.83e-07 0.00291   
## 3085 1.005 1.41e-05 0.00245   
## 3086 0.999 2.55e-04 0.00241   
## 3087 1.006 1.72e-05 0.00305   
## 3088 1.000 3.26e-04 0.00301   
## 3089 1.006 1.70e-05 0.00304   
## 3090 1.005 4.42e-05 0.00297   
## 3091 1.000 2.71e-04 0.00264   
## 3092 1.006 3.89e-06 0.00344   
## 3093 1.005 2.25e-05 0.00228   
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## 3095 1.004 5.55e-06 0.00132   
## 3096 1.003 1.10e-04 0.00277   
## 3097 1.005 7.74e-05 0.00319   
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## 3099 0.996 5.58e-04 0.00306   
## 3100 0.996 2.87e-04 0.00190   
## 3101 1.005 2.78e-05 0.00276   
## 3102 1.005 1.24e-06 0.00172   
## 3103 1.005 2.85e-08 0.00238   
## 3104 1.005 5.77e-05 0.00339   
## 3105 1.005 1.02e-06 0.00263   
## 3106 1.004 2.30e-05 0.00184   
## 3107 0.991 7.60e-04 0.00284 \*  
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## 3109 0.999 2.05e-04 0.00198   
## 3110 1.004 1.72e-04 0.00361   
## 3111 1.002 1.77e-04 0.00260   
## 3112 1.005 1.19e-04 0.00365   
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## 3114 1.004 1.08e-07 0.00149   
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## 3116 1.006 1.01e-08 0.00288   
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## 3127 1.006 2.22e-05 0.00357   
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## 3130 1.005 2.17e-06 0.00254   
## 3131 1.001 2.45e-04 0.00293   
## 3132 1.000 1.12e-04 0.00136   
## 3133 1.003 7.98e-05 0.00226   
## 3134 0.997 2.09e-04 0.00167   
## 3135 0.997 6.83e-04 0.00402   
## 3136 1.001 1.81e-04 0.00227   
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## 3140 1.004 1.72e-05 0.00169   
## 3141 1.001 1.68e-04 0.00243   
## 3142 1.004 2.39e-04 0.00407   
## 3143 1.001 3.39e-04 0.00360   
## 3144 1.005 5.93e-05 0.00307   
## 3145 1.004 1.16e-04 0.00323   
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## 3154 0.997 4.68e-04 0.00294   
## 3155 0.992 5.75e-04 0.00252   
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## 3158 1.002 2.04e-04 0.00311   
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## 3160 1.000 1.88e-04 0.00222   
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## 3163 1.006 1.25e-05 0.00348   
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## 3166 1.001 2.22e-04 0.00272   
## 3167 1.005 7.44e-06 0.00232   
## 3168 1.001 2.46e-04 0.00292   
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## 3181 1.001 4.23e-04 0.00389   
## 3182 1.005 4.21e-06 0.00181   
## 3183 1.003 1.62e-04 0.00293   
## 3184 0.995 3.16e-04 0.00193   
## 3185 1.004 1.23e-05 0.00192   
## 3186 1.007 4.99e-07 0.00378   
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## 3188 1.006 4.72e-07 0.00265   
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## 3194 1.001 1.37e-04 0.00219   
## 3195 1.006 3.05e-06 0.00272   
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## 3197 1.006 2.42e-05 0.00364   
## 3198 1.001 1.69e-04 0.00226   
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## 3218 1.003 9.09e-05 0.00239   
## 3219 1.004 1.77e-04 0.00402   
## 3220 1.001 2.84e-04 0.00304   
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## 3230 1.005 3.82e-07 0.00190   
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## 3615 1.006 1.82e-04 0.00490   
## 3616 1.000 4.30e-04 0.00358   
## 3617 1.004 2.09e-05 0.00198   
## 3618 1.001 2.09e-04 0.00280   
## 3619 1.005 1.32e-04 0.00381   
## 3620 1.006 8.80e-06 0.00283   
## 3621 1.006 4.38e-05 0.00350   
## 3622 1.004 6.03e-06 0.00133   
## 3623 1.005 1.13e-04 0.00349   
## 3624 1.006 2.45e-05 0.00319   
## 3625 0.991 6.00e-04 0.00246   
## 3626 0.999 4.36e-04 0.00339   
## 3627 1.000 2.64e-04 0.00269   
## 3628 0.996 3.01e-04 0.00196   
## 3629 1.006 5.89e-08 0.00348   
## 3630 1.006 2.54e-06 0.00298   
## 3631 1.005 1.32e-05 0.00234   
## 3632 0.991 3.86e-04 0.00159 \*  
## 3633 0.999 5.07e-04 0.00366   
## 3634 1.003 1.16e-04 0.00243   
## 3635 1.002 1.99e-04 0.00295   
## 3636 1.006 7.81e-06 0.00316   
## 3637 0.998 2.93e-04 0.00238   
## 3638 1.005 3.13e-08 0.00208   
## 3639 1.005 6.60e-07 0.00264   
## 3640 1.004 1.62e-05 0.00164   
## 3641 1.005 5.87e-05 0.00314   
## 3642 0.997 2.42e-04 0.00187   
## 3643 1.003 1.09e-04 0.00277   
## 3644 1.005 5.71e-06 0.00240   
## 3645 1.007 4.86e-06 0.00449   
## 3646 1.007 5.18e-09 0.00374   
## 3647 1.000 4.22e-04 0.00380   
## 3648 1.007 3.70e-05 0.00464   
## 3649 1.003 2.01e-04 0.00336   
## 3650 1.005 6.58e-06 0.00261   
## 3651 1.007 1.72e-05 0.00473   
## 3652 1.005 3.71e-06 0.00263   
## 3653 1.004 5.49e-05 0.00258   
## 3654 1.005 1.10e-05 0.00267   
## 3655 1.005 1.32e-04 0.00394   
## 3656 1.004 8.32e-05 0.00291   
## 3657 0.995 2.79e-04 0.00171   
## 3658 0.996 3.00e-04 0.00194   
## 3659 1.003 9.09e-05 0.00216   
## 3660 1.006 5.69e-06 0.00343   
## 3661 0.998 3.98e-04 0.00295   
## 3662 1.002 4.24e-04 0.00454   
## 3663 1.005 7.61e-05 0.00371   
## 3664 1.002 1.27e-04 0.00245   
## 3665 1.006 1.17e-05 0.00287   
## 3666 1.002 6.31e-05 0.00154   
## 3667 0.995 6.05e-04 0.00306   
## 3668 0.999 1.91e-04 0.00199   
## 3669 0.996 2.52e-04 0.00173   
## 3670 1.004 2.48e-05 0.00178   
## 3671 1.006 7.83e-06 0.00291   
## 3672 1.004 1.47e-04 0.00347   
## 3673 1.005 1.16e-04 0.00419   
## 3674 0.993 4.15e-04 0.00204   
## 3675 0.999 6.21e-04 0.00443   
## 3676 1.000 1.93e-04 0.00228   
## 3677 1.001 7.57e-05 0.00127   
## 3678 1.006 3.56e-05 0.00332   
## 3679 1.001 1.18e-04 0.00190   
## 3680 1.007 2.55e-05 0.00435   
## 3681 1.001 9.29e-05 0.00163   
## 3682 0.999 5.43e-04 0.00401   
## 3683 1.002 1.68e-04 0.00268   
## 3684 1.002 8.11e-05 0.00196   
## 3685 0.999 4.18e-04 0.00346   
## 3686 1.006 4.64e-05 0.00370   
## 3687 1.004 3.19e-04 0.00462   
## 3688 1.006 3.79e-05 0.00345   
## 3689 0.988 7.95e-04 0.00253 \*  
## 3690 1.000 2.12e-04 0.00224   
## 3691 0.996 4.34e-04 0.00268   
## 3692 1.003 1.73e-04 0.00324   
## 3693 1.004 7.98e-05 0.00301   
## 3694 1.006 1.82e-05 0.00364   
## 3695 0.991 5.86e-04 0.00232 \*  
## 3696 1.005 2.20e-06 0.00219   
## 3697 1.001 1.98e-04 0.00267   
## 3698 1.005 7.35e-06 0.00197   
## 3699 1.006 5.07e-07 0.00319   
## 3700 1.005 1.56e-05 0.00291   
## 3701 1.002 2.12e-04 0.00307   
## 3702 1.005 1.39e-05 0.00254   
## 3703 1.005 5.38e-06 0.00235   
## 3704 1.002 1.45e-04 0.00229   
## 3705 1.004 6.50e-06 0.00174   
## 3706 1.006 1.18e-07 0.00302   
## 3707 1.006 2.05e-06 0.00296   
## 3708 1.000 3.38e-04 0.00315   
## 3709 1.006 1.83e-05 0.00331   
## 3710 0.997 3.32e-04 0.00233   
## 3711 1.004 8.98e-05 0.00283   
## 3712 1.005 4.47e-05 0.00291   
## 3713 1.004 1.32e-04 0.00312   
## 3714 1.004 9.88e-07 0.00125   
## 3715 1.006 8.83e-06 0.00307   
## 3716 0.992 3.97e-04 0.00174   
## 3717 1.007 1.40e-05 0.00434   
## 3718 1.004 1.13e-05 0.00189   
## 3719 1.006 2.71e-07 0.00268   
## 3720 1.001 7.93e-05 0.00150   
## 3721 1.001 1.98e-04 0.00272   
## 3722 1.004 3.85e-05 0.00209   
## 3723 1.005 1.30e-06 0.00253   
## 3724 1.005 4.87e-07 0.00256   
## 3725 0.996 3.41e-04 0.00225   
## 3726 0.997 1.57e-04 0.00128   
## 3727 1.007 4.66e-05 0.00432   
## 3728 1.008 8.98e-06 0.00482   
## 3729 1.006 1.57e-05 0.00343   
## 3730 0.995 4.59e-04 0.00260   
## 3731 1.005 2.37e-05 0.00253   
## 3732 0.999 2.26e-04 0.00218   
## 3733 1.004 1.52e-04 0.00357   
## 3734 1.004 9.67e-06 0.00165   
## 3735 0.998 2.38e-04 0.00197   
## 3736 1.006 2.79e-06 0.00309   
## 3737 1.004 1.12e-04 0.00327   
## 3738 0.994 4.98e-04 0.00251   
## 3739 1.004 1.11e-04 0.00289   
## 3740 1.003 1.10e-04 0.00247   
## 3741 1.001 1.10e-04 0.00189   
## 3742 1.004 1.58e-04 0.00364   
## 3743 1.006 1.93e-07 0.00292   
## 3744 1.005 3.49e-05 0.00257   
## 3745 1.005 1.85e-04 0.00441   
## 3746 1.005 4.97e-05 0.00338   
## 3747 1.006 3.71e-06 0.00307   
## 3748 1.004 1.33e-04 0.00342   
## 3749 1.004 2.30e-05 0.00178   
## 3750 1.002 6.76e-05 0.00152   
## 3751 0.999 3.32e-04 0.00297   
## 3752 1.006 4.36e-06 0.00336   
## 3753 1.004 7.27e-05 0.00262   
## 3754 1.003 1.10e-04 0.00262   
## 3755 0.999 2.35e-04 0.00211   
## 3756 1.006 9.14e-07 0.00286   
## 3757 1.002 1.08e-04 0.00198   
## 3758 1.003 1.11e-04 0.00242   
## 3759 1.004 2.19e-05 0.00197   
## 3760 1.004 4.90e-05 0.00230   
## 3761 0.999 4.52e-04 0.00355   
## 3762 1.006 1.02e-06 0.00315   
## 3763 1.003 8.26e-05 0.00243   
## 3764 1.005 2.53e-05 0.00266   
## 3765 1.005 3.38e-06 0.00233   
## 3766 1.002 8.19e-05 0.00184   
## 3767 1.004 1.53e-04 0.00368   
## 3768 0.999 3.95e-04 0.00308   
## 3769 1.005 7.99e-05 0.00361   
## 3770 1.001 1.84e-04 0.00229   
## 3771 1.005 7.20e-05 0.00347   
## 3772 1.005 2.64e-06 0.00183   
## 3773 1.003 1.48e-04 0.00278   
## 3774 0.982 1.65e-03 0.00378 \*  
## 3775 1.006 6.47e-07 0.00327   
## 3776 1.004 2.08e-06 0.00127   
## 3777 0.998 3.62e-04 0.00265   
## 3778 1.004 8.42e-05 0.00281   
## 3779 1.002 1.27e-04 0.00217   
## 3780 1.004 9.94e-05 0.00313   
## 3781 1.000 1.86e-04 0.00225   
## 3782 1.005 9.99e-05 0.00389   
## 3783 0.987 1.04e-03 0.00309 \*  
## 3784 1.004 1.60e-05 0.00160   
## 3785 0.990 5.66e-04 0.00209 \*  
## 3786 0.998 1.38e-04 0.00124   
## 3787 1.002 1.23e-04 0.00234   
## 3788 1.004 1.74e-05 0.00161   
## 3789 1.004 1.47e-04 0.00334   
## 3790 0.997 2.36e-04 0.00184   
## 3791 0.998 2.53e-04 0.00199   
## 3792 1.005 5.26e-05 0.00296   
## 3793 1.002 1.67e-04 0.00249   
## 3794 0.991 8.38e-04 0.00321 \*  
## 3795 1.007 7.92e-07 0.00428   
## 3796 1.002 2.50e-04 0.00328   
## 3797 1.004 2.29e-05 0.00178   
## 3798 0.992 8.78e-04 0.00350   
## 3799 0.999 2.32e-04 0.00231   
## 3800 1.002 8.16e-05 0.00197   
## 3801 1.000 2.23e-04 0.00229   
## 3802 1.002 1.52e-04 0.00243   
## 3803 1.005 2.04e-05 0.00219   
## 3804 1.005 8.15e-10 0.00172   
## 3805 1.003 8.24e-05 0.00222   
## 3806 1.004 7.22e-05 0.00242   
## 3807 1.005 1.27e-05 0.00218   
## 3808 1.005 2.38e-05 0.00290   
## 3809 1.005 7.53e-06 0.00208   
## 3810 1.002 6.68e-05 0.00148   
## 3811 1.007 1.38e-05 0.00465   
## 3812 1.005 6.72e-07 0.00219   
## 3813 1.005 1.56e-05 0.00277   
## 3814 1.006 3.91e-05 0.00351   
## 3815 1.006 2.32e-05 0.00362   
## 3816 1.003 6.36e-05 0.00204   
## 3817 0.999 5.76e-04 0.00395   
## 3818 1.005 3.42e-05 0.00275   
## 3819 1.001 1.73e-04 0.00238   
## 3820 1.005 2.17e-06 0.00197   
## 3821 1.004 1.51e-05 0.00182   
## 3822 1.005 7.80e-06 0.00260   
## 3823 1.000 1.89e-04 0.00230   
## 3824 1.005 8.41e-05 0.00332   
## 3825 1.002 3.01e-04 0.00356   
## 3826 1.005 2.66e-05 0.00290   
## 3827 1.003 2.55e-04 0.00365   
## 3828 0.990 1.02e-03 0.00350 \*  
## 3829 1.004 2.06e-06 0.00143   
## 3830 1.006 2.34e-07 0.00362   
## 3831 1.003 2.60e-04 0.00404   
## 3832 0.998 2.55e-04 0.00210   
## 3833 1.004 1.25e-05 0.00191   
## 3834 1.006 1.46e-07 0.00312   
## 3835 1.001 1.71e-04 0.00234   
## 3836 0.999 2.70e-04 0.00251   
## 3837 1.003 1.54e-04 0.00287   
## 3838 0.993 5.59e-04 0.00251   
## 3839 1.001 1.32e-04 0.00199   
## 3840 1.002 9.59e-05 0.00216   
## 3841 1.004 2.84e-05 0.00198   
## 3842 1.003 8.85e-05 0.00227   
## 3843 0.992 6.26e-04 0.00265   
## 3844 1.005 1.99e-07 0.00262   
## 3845 1.005 1.24e-07 0.00223   
## 3846 1.005 4.74e-05 0.00289   
## 3847 1.003 1.01e-04 0.00257   
## 3848 1.004 8.23e-05 0.00312   
## 3849 1.007 2.83e-06 0.00412   
## 3850 1.004 6.90e-05 0.00290   
## 3851 1.005 2.26e-05 0.00244   
## 3852 1.005 2.23e-06 0.00247   
## 3853 1.004 7.64e-05 0.00270   
## 3854 1.004 1.46e-04 0.00341   
## 3855 1.004 1.82e-04 0.00413   
## 3856 1.006 3.87e-06 0.00294   
## 3857 0.998 3.82e-04 0.00282   
## 3858 1.001 1.31e-04 0.00190   
## 3859 1.005 5.42e-05 0.00307   
## 3860 1.005 8.97e-06 0.00268   
## 3861 1.006 9.76e-05 0.00421   
## 3862 0.999 3.02e-04 0.00258   
## 3863 1.002 1.03e-04 0.00214   
## 3864 1.007 3.18e-05 0.00413   
## 3865 1.005 6.95e-05 0.00307   
## 3866 1.001 3.97e-04 0.00381   
## 3867 1.007 8.21e-07 0.00386   
## 3868 1.002 7.70e-05 0.00166   
## 3869 0.998 3.81e-04 0.00293   
## 3870 0.998 2.49e-04 0.00195   
## 3871 0.998 5.81e-04 0.00383   
## 3872 1.005 3.55e-07 0.00251   
## 3873 0.996 2.49e-04 0.00169   
## 3874 1.004 9.83e-05 0.00288   
## 3875 1.005 3.14e-05 0.00292   
## 3876 1.002 9.10e-05 0.00179   
## 3877 0.999 2.22e-04 0.00217   
## 3878 1.000 3.23e-04 0.00305   
## 3879 0.996 2.23e-04 0.00150   
## 3880 1.006 4.72e-05 0.00342   
## 3881 0.999 2.07e-04 0.00209   
## 3882 1.002 1.35e-04 0.00239   
## 3883 1.004 4.87e-06 0.00154   
## 3884 0.990 7.64e-04 0.00275 \*  
## 3885 1.005 1.47e-05 0.00268   
## 3886 1.004 1.06e-05 0.00168   
## 3887 1.002 1.89e-04 0.00297   
## 3888 1.006 5.02e-07 0.00320   
## 3889 1.005 1.97e-06 0.00217   
## 3890 1.004 5.64e-07 0.00154   
## 3891 1.005 1.49e-07 0.00258   
## 3892 1.005 2.31e-06 0.00193   
## 3893 1.003 1.35e-04 0.00279   
## 3894 1.004 6.19e-07 0.00147   
## 3895 1.005 1.03e-05 0.00267   
## 3896 1.004 1.37e-04 0.00331   
## 3897 1.006 6.76e-05 0.00375   
## 3898 1.005 5.85e-06 0.00217   
## 3899 1.000 4.17e-04 0.00364   
## 3900 1.002 1.60e-04 0.00280   
## 3901 1.003 2.37e-04 0.00351   
## 3902 1.005 2.18e-05 0.00283   
## 3903 1.005 3.06e-06 0.00248   
## 3904 0.998 2.40e-04 0.00204   
## 3905 0.993 4.20e-04 0.00195   
## 3906 1.005 9.01e-07 0.00225   
## 3907 1.005 4.11e-06 0.00271   
## 3908 1.004 9.97e-07 0.00148   
## 3909 1.006 3.29e-05 0.00331   
## 3910 1.000 2.20e-04 0.00226   
## 3911 1.002 1.33e-04 0.00222   
## 3912 1.001 1.43e-04 0.00219   
## 3913 1.004 6.85e-05 0.00240   
## 3914 1.007 8.74e-06 0.00393   
## 3915 1.005 7.63e-05 0.00377   
## 3916 1.003 1.71e-04 0.00316   
## 3917 1.003 8.21e-05 0.00210   
## 3918 0.997 4.38e-04 0.00297   
## 3919 1.006 4.62e-05 0.00380   
## 3920 1.004 1.40e-04 0.00358   
## 3921 0.994 5.95e-04 0.00280   
## 3922 0.998 3.01e-04 0.00239   
## 3923 1.005 1.50e-05 0.00283   
## 3924 1.005 1.15e-05 0.00280   
## 3925 1.006 6.44e-05 0.00378   
## 3926 1.004 9.68e-05 0.00281   
## 3927 1.004 1.46e-05 0.00180   
## 3928 1.007 4.42e-05 0.00434   
## 3929 1.006 7.90e-06 0.00279   
## 3930 1.005 1.02e-04 0.00382   
## 3931 1.004 3.78e-05 0.00214   
## 3932 1.003 6.96e-05 0.00206   
## 3933 1.002 1.91e-04 0.00295   
## 3934 1.003 1.45e-04 0.00302   
## 3935 1.005 3.44e-05 0.00302   
## 3936 0.997 2.28e-04 0.00170   
## 3937 1.002 1.46e-04 0.00267   
## 3938 1.004 7.72e-06 0.00179   
## 3939 0.996 6.69e-04 0.00356   
## 3940 0.998 6.33e-04 0.00418   
## 3941 1.004 6.96e-05 0.00264   
## 3942 1.005 6.52e-05 0.00347   
## 3943 1.004 9.33e-05 0.00323   
## 3944 1.001 2.21e-04 0.00259   
## 3945 1.006 2.59e-05 0.00333   
## 3946 1.005 4.52e-06 0.00266   
## 3947 1.002 1.98e-04 0.00291   
## 3948 0.995 4.23e-04 0.00232   
## 3949 1.002 2.41e-04 0.00343   
## 3950 1.005 9.97e-05 0.00366   
## 3951 1.005 6.01e-05 0.00333   
## 3952 1.001 1.64e-04 0.00223   
## 3953 1.006 1.92e-05 0.00365   
## 3954 1.003 1.48e-04 0.00291   
## 3955 1.003 1.76e-04 0.00310   
## 3956 1.004 7.15e-05 0.00269   
## 3957 1.005 8.14e-06 0.00252   
## 3958 1.006 1.23e-07 0.00297   
## 3959 1.002 1.24e-04 0.00219   
## 3960 1.006 2.32e-07 0.00299   
## 3961 1.004 2.70e-06 0.00171   
## 3962 1.006 1.16e-05 0.00303   
## 3963 0.998 2.30e-04 0.00204   
## 3964 1.006 4.56e-08 0.00290   
## 3965 0.988 7.09e-04 0.00235 \*  
## 3966 1.005 2.26e-05 0.00298   
## 3967 1.006 3.23e-05 0.00331   
## 3968 1.005 5.99e-05 0.00352   
## 3969 1.003 1.01e-04 0.00230   
## 3970 0.999 3.27e-04 0.00281   
## 3971 1.005 1.50e-06 0.00257   
## 3972 0.997 3.98e-04 0.00257   
## 3973 1.005 1.90e-07 0.00250   
## 3974 1.001 1.40e-04 0.00202   
## 3975 0.997 4.67e-04 0.00289   
## 3976 1.007 6.00e-06 0.00392   
## 3977 0.999 3.33e-04 0.00289   
## 3978 1.005 7.52e-06 0.00262   
## 3979 1.005 1.21e-04 0.00392   
## 3980 1.007 1.17e-06 0.00385   
## 3981 1.001 7.69e-05 0.00146   
## 3982 1.006 2.18e-06 0.00271   
## 3983 1.004 2.22e-04 0.00430   
## 3984 0.996 2.64e-04 0.00179   
## 3985 1.003 1.93e-04 0.00362   
## 3986 1.007 3.47e-06 0.00369   
## 3987 1.006 4.23e-05 0.00355   
## 3988 0.998 2.94e-04 0.00235   
## 3989 0.998 4.95e-04 0.00332   
## 3990 1.005 1.51e-06 0.00185   
## 3991 1.007 2.05e-06 0.00413   
## 3992 1.006 6.04e-06 0.00317   
## 3993 1.002 8.65e-05 0.00190   
## 3994 0.999 2.42e-04 0.00226   
## 3995 1.004 5.63e-05 0.00267   
## 3996 1.005 1.94e-05 0.00259   
## 3997 1.005 8.96e-08 0.00178   
## 3998 1.005 2.39e-05 0.00284   
## 3999 0.995 4.76e-04 0.00269   
## [ reached getOption("max.print") -- omitted 3033 rows ]

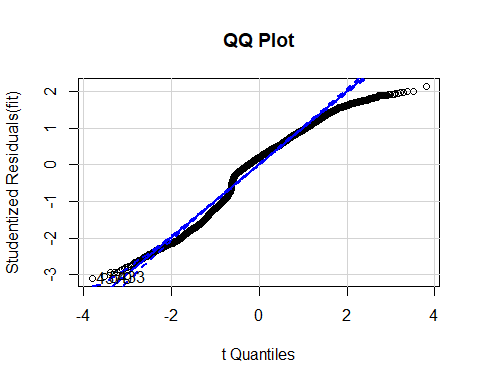
##Diagnostics Plots for visualization  
plot(fit)



#Finding Outliers and plottting scatterplot for visual analysis  
outlierTest(fit)

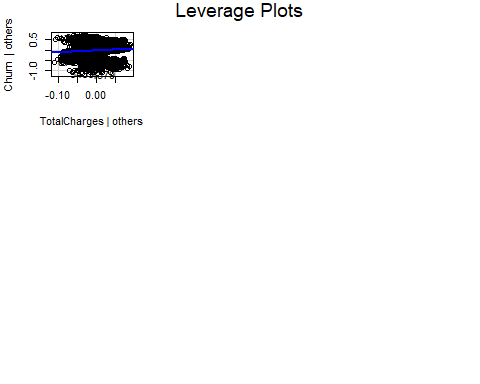
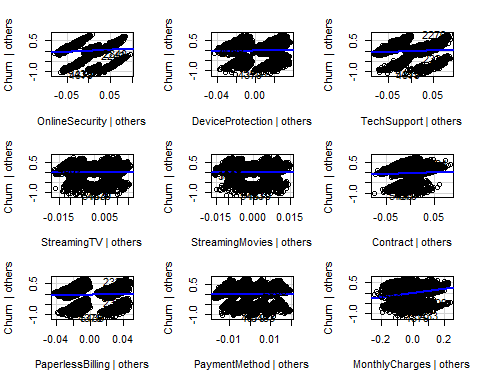
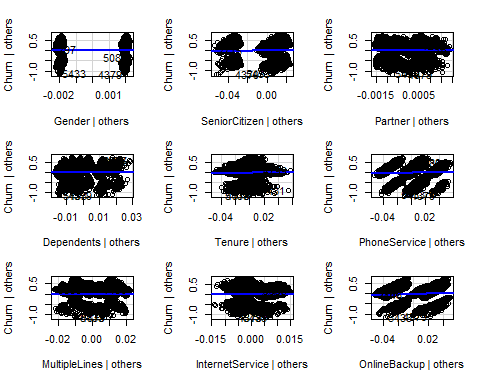
## No Studentized residuals with Bonferonni p < 0.05  
## Largest |rstudent|:  
## rstudent unadjusted p-value Bonferonni p  
## 4379 -3.101834 0.0019309 NA

qqPlot(fit, main="QQ Plot")

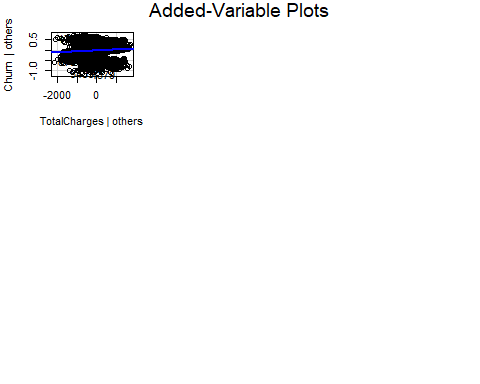
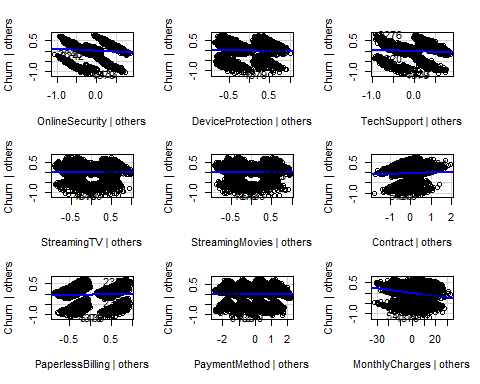
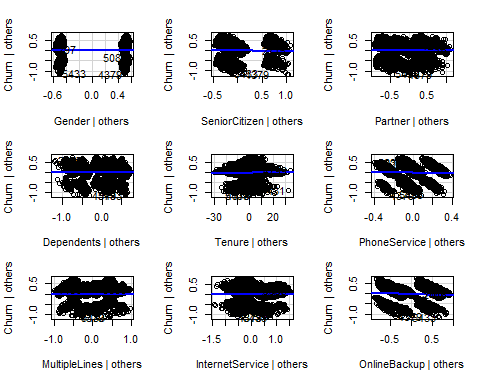


## [1] 4379 5433

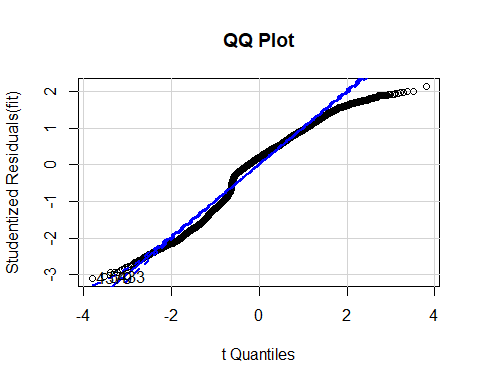
#Plotting leverage plots  
leveragePlots(fit)



# Plotting variable plots for Influential Observations  
  
avPlots(fit)

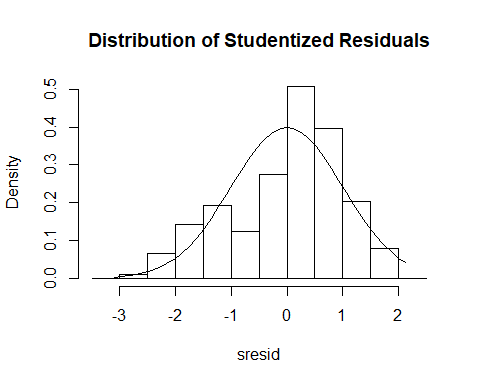


# Normality of Residuals and qqplot for studentized resid  
qqPlot(fit, main="QQ Plot")



## [1] 4379 5433

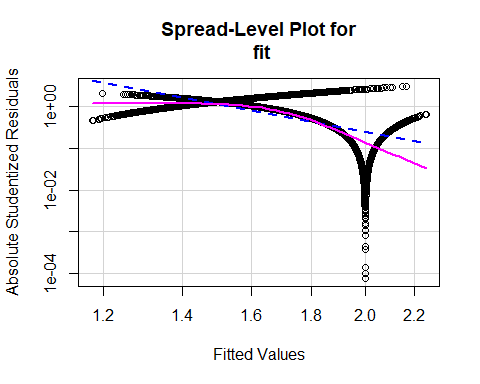
#Distribution of studentized residuals  
sresid <- studres(fit)  
hist(sresid, freq=FALSE,  
 main="Distribution of Studentized Residuals")  
xfit<-seq(min(sresid),max(sresid),length=40)  
yfit<-dnorm(xfit)  
lines(xfit, yfit)



#Non-constant Error Variance  
#Evaluating homoscedasticity  
#Non-constant error variance test  
ncvTest(fit)

## Non-constant Variance Score Test   
## Variance formula: ~ fitted.values   
## Chisquare = 914.0037 Df = 1 p = 8.863657e-201

#Plotting studentized residuals v/s. fitted values  
spreadLevelPlot(fit)



##   
## Suggested power transformation: 6.282503

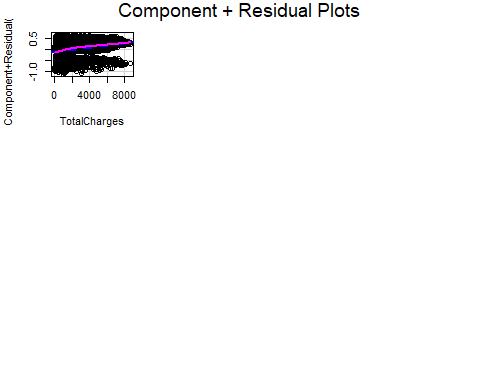
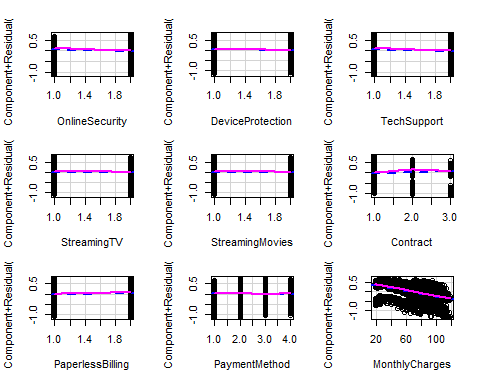
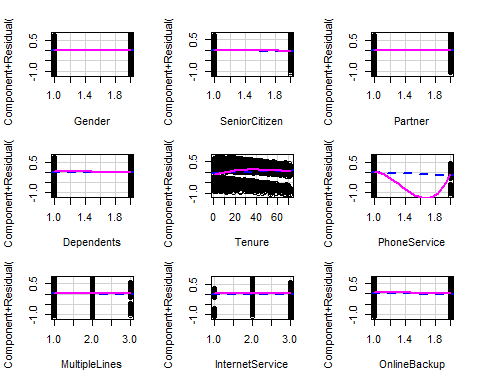
#Multi-collinearity  
# Evaluate Collinearity  
vif(fit) # variance inflation factors

## Gender SeniorCitizen Partner Dependents   
## 1.001896 1.149619 1.461181 1.379675   
## Tenure PhoneService MultipleLines InternetService   
## 7.493307 3.653103 2.726882 1.923602   
## OnlineBackup OnlineSecurity DeviceProtection TechSupport   
## 1.517621 1.494666 1.593000 1.541748   
## StreamingTV StreamingMovies Contract PaperlessBilling   
## 1.939452 1.945417 2.492521 1.202420   
## PaymentMethod MonthlyCharges TotalCharges   
## 1.186114 6.434736 10.616907

sqrt(vif(fit)) > 2

## Gender SeniorCitizen Partner Dependents   
## FALSE FALSE FALSE FALSE   
## Tenure PhoneService MultipleLines InternetService   
## TRUE FALSE FALSE FALSE   
## OnlineBackup OnlineSecurity DeviceProtection TechSupport   
## FALSE FALSE FALSE FALSE   
## StreamingTV StreamingMovies Contract PaperlessBilling   
## FALSE FALSE FALSE FALSE   
## PaymentMethod MonthlyCharges TotalCharges   
## FALSE TRUE TRUE

#Nonlinearity  
# component + residual plot  
crPlots(fit)



#Global test of model assumptions  
  
##In the below steps we are performing regressions using all independent variable and we keep  
##on eliminating the ones which are not significant in the next regression until we see  
##constant values for R2  
  
gvmodel <- gvlma(fit)  
summary(gvmodel)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## StreamingTV + StreamingMovies + Contract + PaperlessBilling +   
## PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.16590 -0.29353 0.07249 0.26751 0.80298   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.714e+00 9.660e-02 28.098 < 2e-16 \*\*\*  
## Gender 3.950e-03 8.991e-03 0.439 0.660414   
## SeniorCitizen -5.014e-02 1.306e-02 -3.840 0.000124 \*\*\*  
## Partner 1.714e-03 1.086e-02 0.158 0.874621   
## Dependents -2.389e-02 1.153e-02 -2.072 0.038282 \*   
## Tenure 1.677e-03 5.009e-04 3.348 0.000818 \*\*\*  
## PhoneService -1.394e-01 2.904e-02 -4.799 1.63e-06 \*\*\*  
## MultipleLines -2.248e-02 1.131e-02 -1.987 0.046912 \*   
## InternetService 9.770e-03 8.449e-03 1.156 0.247568   
## OnlineBackup -5.578e-02 1.164e-02 -4.792 1.68e-06 \*\*\*  
## OnlineSecurity -9.139e-02 1.214e-02 -7.526 5.88e-14 \*\*\*  
## DeviceProtection -4.199e-02 1.193e-02 -3.518 0.000437 \*\*\*  
## TechSupport -9.267e-02 1.229e-02 -7.541 5.23e-14 \*\*\*  
## StreamingTV -1.756e-02 1.286e-02 -1.366 0.172065   
## StreamingMovies -1.631e-02 1.285e-02 -1.269 0.204469   
## Contract 4.278e-02 8.513e-03 5.025 5.16e-07 \*\*\*  
## PaperlessBilling 5.032e-02 1.002e-02 5.020 5.28e-07 \*\*\*  
## PaymentMethod -7.811e-03 4.582e-03 -1.705 0.088325 .   
## MonthlyCharges -7.487e-03 3.787e-04 -19.771 < 2e-16 \*\*\*  
## TotalCharges 5.178e-05 6.456e-06 8.020 1.23e-15 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3766 on 7012 degrees of freedom  
## Multiple R-squared: 0.2752, Adjusted R-squared: 0.2733   
## F-statistic: 140.1 on 19 and 7012 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 664.671 0.000e+00 Assumptions NOT satisfied!  
## Skewness 366.591 0.000e+00 Assumptions NOT satisfied!  
## Kurtosis 51.526 7.064e-13 Assumptions NOT satisfied!  
## Link Function 244.686 0.000e+00 Assumptions NOT satisfied!  
## Heteroscedasticity 1.867 1.718e-01 Assumptions acceptable.

fit

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## StreamingTV + StreamingMovies + Contract + PaperlessBilling +   
## PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Coefficients:  
## (Intercept) Gender SeniorCitizen Partner   
## 2.714e+00 3.950e-03 -5.014e-02 1.714e-03   
## Dependents Tenure PhoneService MultipleLines   
## -2.389e-02 1.677e-03 -1.394e-01 -2.248e-02   
## InternetService OnlineBackup OnlineSecurity DeviceProtection   
## 9.770e-03 -5.578e-02 -9.139e-02 -4.199e-02   
## TechSupport StreamingTV StreamingMovies Contract   
## -9.267e-02 -1.756e-02 -1.631e-02 4.278e-02   
## PaperlessBilling PaymentMethod MonthlyCharges TotalCharges   
## 5.032e-02 -7.811e-03 -7.487e-03 5.178e-05

summary(fit)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## StreamingTV + StreamingMovies + Contract + PaperlessBilling +   
## PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.16590 -0.29353 0.07249 0.26751 0.80298   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.714e+00 9.660e-02 28.098 < 2e-16 \*\*\*  
## Gender 3.950e-03 8.991e-03 0.439 0.660414   
## SeniorCitizen -5.014e-02 1.306e-02 -3.840 0.000124 \*\*\*  
## Partner 1.714e-03 1.086e-02 0.158 0.874621   
## Dependents -2.389e-02 1.153e-02 -2.072 0.038282 \*   
## Tenure 1.677e-03 5.009e-04 3.348 0.000818 \*\*\*  
## PhoneService -1.394e-01 2.904e-02 -4.799 1.63e-06 \*\*\*  
## MultipleLines -2.248e-02 1.131e-02 -1.987 0.046912 \*   
## InternetService 9.770e-03 8.449e-03 1.156 0.247568   
## OnlineBackup -5.578e-02 1.164e-02 -4.792 1.68e-06 \*\*\*  
## OnlineSecurity -9.139e-02 1.214e-02 -7.526 5.88e-14 \*\*\*  
## DeviceProtection -4.199e-02 1.193e-02 -3.518 0.000437 \*\*\*  
## TechSupport -9.267e-02 1.229e-02 -7.541 5.23e-14 \*\*\*  
## StreamingTV -1.756e-02 1.286e-02 -1.366 0.172065   
## StreamingMovies -1.631e-02 1.285e-02 -1.269 0.204469   
## Contract 4.278e-02 8.513e-03 5.025 5.16e-07 \*\*\*  
## PaperlessBilling 5.032e-02 1.002e-02 5.020 5.28e-07 \*\*\*  
## PaymentMethod -7.811e-03 4.582e-03 -1.705 0.088325 .   
## MonthlyCharges -7.487e-03 3.787e-04 -19.771 < 2e-16 \*\*\*  
## TotalCharges 5.178e-05 6.456e-06 8.020 1.23e-15 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3766 on 7012 degrees of freedom  
## Multiple R-squared: 0.2752, Adjusted R-squared: 0.2733   
## F-statistic: 140.1 on 19 and 7012 DF, p-value: < 2.2e-16

fit1<-fit  
fit2<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService  
 +MultipleLines+InternetService+OnlineBackup+OnlineSecurity  
 +DeviceProtection+TechSupport+StreamingTV+StreamingMovies  
 +Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit2)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## StreamingTV + StreamingMovies + Contract + PaperlessBilling +   
## MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.15675 -0.29405 0.07269 0.26618 0.80173   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.685e+00 9.508e-02 28.238 < 2e-16 \*\*\*  
## Gender 3.673e-03 8.991e-03 0.409 0.682870   
## SeniorCitizen -5.002e-02 1.306e-02 -3.831 0.000129 \*\*\*  
## Partner 1.343e-03 1.086e-02 0.124 0.901592   
## Dependents -2.372e-02 1.153e-02 -2.057 0.039706 \*   
## Tenure 1.838e-03 4.920e-04 3.737 0.000188 \*\*\*  
## PhoneService -1.394e-01 2.905e-02 -4.799 1.63e-06 \*\*\*  
## MultipleLines -2.224e-02 1.131e-02 -1.966 0.049322 \*   
## InternetService 1.023e-02 8.446e-03 1.212 0.225669   
## OnlineBackup -5.574e-02 1.164e-02 -4.788 1.72e-06 \*\*\*  
## OnlineSecurity -9.131e-02 1.215e-02 -7.518 6.24e-14 \*\*\*  
## DeviceProtection -4.213e-02 1.194e-02 -3.530 0.000418 \*\*\*  
## TechSupport -9.277e-02 1.229e-02 -7.548 4.96e-14 \*\*\*  
## StreamingTV -1.709e-02 1.286e-02 -1.330 0.183666   
## StreamingMovies -1.601e-02 1.285e-02 -1.246 0.212850   
## Contract 4.305e-02 8.513e-03 5.057 4.37e-07 \*\*\*  
## PaperlessBilling 4.995e-02 1.002e-02 4.984 6.39e-07 \*\*\*  
## MonthlyCharges -7.428e-03 3.771e-04 -19.695 < 2e-16 \*\*\*  
## TotalCharges 5.099e-05 6.440e-06 7.917 2.81e-15 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3767 on 7013 degrees of freedom  
## Multiple R-squared: 0.2749, Adjusted R-squared: 0.2731   
## F-statistic: 147.7 on 18 and 7013 DF, p-value: < 2.2e-16

fit3<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService  
 +MultipleLines+InternetService+OnlineBackup+OnlineSecurity  
 +DeviceProtection+TechSupport+StreamingTV+  
 Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit3)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## StreamingTV + Contract + PaperlessBilling + MonthlyCharges +   
## TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.16051 -0.29141 0.07225 0.26624 0.80783   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.637e+00 8.688e-02 30.351 < 2e-16 \*\*\*  
## Gender 3.585e-03 8.991e-03 0.399 0.690116   
## SeniorCitizen -5.029e-02 1.306e-02 -3.851 0.000119 \*\*\*  
## Partner 1.243e-03 1.086e-02 0.114 0.908887   
## Dependents -2.370e-02 1.153e-02 -2.056 0.039846 \*   
## Tenure 1.814e-03 4.916e-04 3.690 0.000226 \*\*\*  
## PhoneService -1.318e-01 2.840e-02 -4.641 3.54e-06 \*\*\*  
## MultipleLines -2.337e-02 1.127e-02 -2.073 0.038233 \*   
## InternetService 1.023e-02 8.446e-03 1.211 0.225933   
## OnlineBackup -5.419e-02 1.158e-02 -4.681 2.90e-06 \*\*\*  
## OnlineSecurity -8.973e-02 1.208e-02 -7.428 1.23e-13 \*\*\*  
## DeviceProtection -4.236e-02 1.193e-02 -3.549 0.000388 \*\*\*  
## TechSupport -9.238e-02 1.229e-02 -7.519 6.19e-14 \*\*\*  
## StreamingTV -1.878e-02 1.279e-02 -1.469 0.141814   
## Contract 4.440e-02 8.444e-03 5.259 1.49e-07 \*\*\*  
## PaperlessBilling 5.006e-02 1.002e-02 4.995 6.03e-07 \*\*\*  
## MonthlyCharges -7.269e-03 3.549e-04 -20.481 < 2e-16 \*\*\*  
## TotalCharges 5.171e-05 6.414e-06 8.062 8.73e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3767 on 7014 degrees of freedom  
## Multiple R-squared: 0.2748, Adjusted R-squared: 0.273   
## F-statistic: 156.3 on 17 and 7014 DF, p-value: < 2.2e-16

fit4<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService  
 +MultipleLines+InternetService+OnlineBackup+OnlineSecurity  
 +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit4)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## Contract + PaperlessBilling + MonthlyCharges + TotalCharges,   
## data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.16571 -0.28928 0.07148 0.26612 0.81598   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.575e+00 7.608e-02 33.847 < 2e-16 \*\*\*  
## Gender 3.532e-03 8.992e-03 0.393 0.694445   
## SeniorCitizen -5.102e-02 1.305e-02 -3.910 9.31e-05 \*\*\*  
## Partner 1.112e-03 1.086e-02 0.102 0.918482   
## Dependents -2.420e-02 1.153e-02 -2.100 0.035773 \*   
## Tenure 1.784e-03 4.912e-04 3.632 0.000284 \*\*\*  
## PhoneService -1.219e-01 2.760e-02 -4.418 1.01e-05 \*\*\*  
## MultipleLines -2.496e-02 1.122e-02 -2.225 0.026143 \*   
## InternetService 1.013e-02 8.447e-03 1.199 0.230417   
## OnlineBackup -5.247e-02 1.152e-02 -4.556 5.31e-06 \*\*\*  
## OnlineSecurity -8.740e-02 1.198e-02 -7.298 3.24e-13 \*\*\*  
## DeviceProtection -4.236e-02 1.194e-02 -3.550 0.000388 \*\*\*  
## TechSupport -9.194e-02 1.228e-02 -7.485 8.05e-14 \*\*\*  
## Contract 4.613e-02 8.362e-03 5.516 3.59e-08 \*\*\*  
## PaperlessBilling 4.991e-02 1.002e-02 4.980 6.51e-07 \*\*\*  
## MonthlyCharges -7.055e-03 3.238e-04 -21.788 < 2e-16 \*\*\*  
## TotalCharges 5.260e-05 6.386e-06 8.237 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3767 on 7015 degrees of freedom  
## Multiple R-squared: 0.2745, Adjusted R-squared: 0.2729   
## F-statistic: 165.9 on 16 and 7015 DF, p-value: < 2.2e-16

fit5<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService  
 +MultipleLines+InternetService+OnlineSecurity  
 +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit5)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineSecurity + DeviceProtection + TechSupport + Contract +   
## PaperlessBilling + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.19592 -0.29079 0.07252 0.26750 0.80480   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.443e+00 7.042e-02 34.691 < 2e-16 \*\*\*  
## Gender 2.921e-03 9.003e-03 0.324 0.745619   
## SeniorCitizen -5.133e-02 1.307e-02 -3.929 8.62e-05 \*\*\*  
## Partner 1.329e-03 1.088e-02 0.122 0.902810   
## Dependents -2.550e-02 1.154e-02 -2.210 0.027160 \*   
## Tenure 1.760e-03 4.919e-04 3.578 0.000349 \*\*\*  
## PhoneService -1.107e-01 2.753e-02 -4.022 5.84e-05 \*\*\*  
## MultipleLines -2.757e-02 1.122e-02 -2.457 0.014049 \*   
## InternetService 1.603e-02 8.359e-03 1.917 0.055260 .   
## OnlineSecurity -8.723e-02 1.199e-02 -7.274 3.88e-13 \*\*\*  
## DeviceProtection -3.951e-02 1.194e-02 -3.311 0.000935 \*\*\*  
## TechSupport -9.150e-02 1.230e-02 -7.439 1.14e-13 \*\*\*  
## Contract 4.681e-02 8.373e-03 5.591 2.34e-08 \*\*\*  
## PaperlessBilling 5.042e-02 1.004e-02 5.024 5.19e-07 \*\*\*  
## MonthlyCharges -6.895e-03 3.223e-04 -21.391 < 2e-16 \*\*\*  
## TotalCharges 5.734e-05 6.310e-06 9.087 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3772 on 7016 degrees of freedom  
## Multiple R-squared: 0.2724, Adjusted R-squared: 0.2708   
## F-statistic: 175.1 on 15 and 7016 DF, p-value: < 2.2e-16

fit6<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService  
 +MultipleLines+OnlineSecurity  
 +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit6)

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + OnlineSecurity +   
## DeviceProtection + TechSupport + Contract + PaperlessBilling +   
## MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.18559 -0.29352 0.07063 0.26881 0.80231   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.483e+00 6.723e-02 36.936 < 2e-16 \*\*\*  
## Gender 3.160e-03 9.004e-03 0.351 0.725623   
## SeniorCitizen -5.201e-02 1.306e-02 -3.981 6.93e-05 \*\*\*  
## Partner 1.465e-03 1.088e-02 0.135 0.892890   
## Dependents -2.551e-02 1.154e-02 -2.210 0.027110 \*   
## Tenure 1.794e-03 4.916e-04 3.649 0.000265 \*\*\*  
## PhoneService -9.332e-02 2.600e-02 -3.590 0.000333 \*\*\*  
## MultipleLines -2.857e-02 1.121e-02 -2.548 0.010842 \*   
## OnlineSecurity -9.400e-02 1.146e-02 -8.202 2.80e-16 \*\*\*  
## DeviceProtection -4.200e-02 1.187e-02 -3.539 0.000404 \*\*\*  
## TechSupport -9.767e-02 1.187e-02 -8.225 2.31e-16 \*\*\*  
## Contract 4.456e-02 8.292e-03 5.374 7.95e-08 \*\*\*  
## PaperlessBilling 4.994e-02 1.003e-02 4.977 6.61e-07 \*\*\*  
## MonthlyCharges -6.753e-03 3.138e-04 -21.522 < 2e-16 \*\*\*  
## TotalCharges 5.606e-05 6.276e-06 8.933 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3773 on 7017 degrees of freedom  
## Multiple R-squared: 0.272, Adjusted R-squared: 0.2706   
## F-statistic: 187.3 on 14 and 7017 DF, p-value: < 2.2e-16

fit7<- lm(Churn~SeniorCitizen+Dependents+Tenure+PhoneService  
 +MultipleLines+OnlineSecurity  
 +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit7)

##   
## Call:  
## lm(formula = Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +   
## MultipleLines + OnlineSecurity + DeviceProtection + TechSupport +   
## Contract + PaperlessBilling + MonthlyCharges + TotalCharges,   
## data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.18779 -0.29342 0.07041 0.26863 0.80440   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.489e+00 6.480e-02 38.418 < 2e-16 \*\*\*  
## SeniorCitizen -5.218e-02 1.300e-02 -4.016 5.99e-05 \*\*\*  
## Dependents -2.486e-02 1.036e-02 -2.400 0.016420 \*   
## Tenure 1.786e-03 4.881e-04 3.660 0.000254 \*\*\*  
## PhoneService -9.319e-02 2.599e-02 -3.586 0.000338 \*\*\*  
## MultipleLines -2.863e-02 1.121e-02 -2.554 0.010660 \*   
## OnlineSecurity -9.393e-02 1.146e-02 -8.197 2.90e-16 \*\*\*  
## DeviceProtection -4.199e-02 1.186e-02 -3.539 0.000404 \*\*\*  
## TechSupport -9.768e-02 1.187e-02 -8.230 < 2e-16 \*\*\*  
## Contract 4.452e-02 8.289e-03 5.370 8.11e-08 \*\*\*  
## PaperlessBilling 4.998e-02 1.003e-02 4.981 6.47e-07 \*\*\*  
## MonthlyCharges -6.755e-03 3.136e-04 -21.538 < 2e-16 \*\*\*  
## TotalCharges 5.608e-05 6.274e-06 8.938 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3773 on 7019 degrees of freedom  
## Multiple R-squared: 0.272, Adjusted R-squared: 0.2708   
## F-statistic: 218.5 on 12 and 7019 DF, p-value: < 2.2e-16

fit7<- lm(Churn~SeniorCitizen+Dependents+Tenure+PhoneService+OnlineSecurity  
 +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit7)

##   
## Call:  
## lm(formula = Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +   
## OnlineSecurity + DeviceProtection + TechSupport + Contract +   
## PaperlessBilling + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.20248 -0.29768 0.07117 0.26882 0.79270   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.531e+00 6.274e-02 40.339 < 2e-16 \*\*\*  
## SeniorCitizen -5.345e-02 1.299e-02 -4.114 3.93e-05 \*\*\*  
## Dependents -2.492e-02 1.036e-02 -2.405 0.016190 \*   
## Tenure 1.663e-03 4.859e-04 3.424 0.000621 \*\*\*  
## PhoneService -1.437e-01 1.688e-02 -8.511 < 2e-16 \*\*\*  
## OnlineSecurity -9.623e-02 1.143e-02 -8.421 < 2e-16 \*\*\*  
## DeviceProtection -4.425e-02 1.184e-02 -3.738 0.000187 \*\*\*  
## TechSupport -1.006e-01 1.182e-02 -8.508 < 2e-16 \*\*\*  
## Contract 4.430e-02 8.292e-03 5.342 9.46e-08 \*\*\*  
## PaperlessBilling 5.013e-02 1.004e-02 4.995 6.02e-07 \*\*\*  
## MonthlyCharges -6.950e-03 3.044e-04 -22.836 < 2e-16 \*\*\*  
## TotalCharges 5.541e-05 6.271e-06 8.835 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3774 on 7020 degrees of freedom  
## Multiple R-squared: 0.2713, Adjusted R-squared: 0.2702   
## F-statistic: 237.6 on 11 and 7020 DF, p-value: < 2.2e-16

fit8<- lm(Churn~SeniorCitizen+Tenure+PhoneService+OnlineSecurity  
 +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges  
 +TotalCharges, data=tablechurn)  
summary(fit8)

##   
## Call:  
## lm(formula = Churn ~ SeniorCitizen + Tenure + PhoneService +   
## OnlineSecurity + DeviceProtection + TechSupport + Contract +   
## PaperlessBilling + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.21609 -0.29808 0.07179 0.27000 0.79348   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.495e+00 6.099e-02 40.917 < 2e-16 \*\*\*  
## SeniorCitizen -5.853e-02 1.282e-02 -4.564 5.10e-06 \*\*\*  
## Tenure 1.709e-03 4.857e-04 3.519 0.000435 \*\*\*  
## PhoneService -1.448e-01 1.688e-02 -8.581 < 2e-16 \*\*\*  
## OnlineSecurity -9.735e-02 1.142e-02 -8.523 < 2e-16 \*\*\*  
## DeviceProtection -4.437e-02 1.184e-02 -3.748 0.000180 \*\*\*  
## TechSupport -1.008e-01 1.182e-02 -8.526 < 2e-16 \*\*\*  
## Contract 4.617e-02 8.258e-03 5.591 2.34e-08 \*\*\*  
## PaperlessBilling 5.074e-02 1.004e-02 5.055 4.40e-07 \*\*\*  
## MonthlyCharges -6.984e-03 3.041e-04 -22.965 < 2e-16 \*\*\*  
## TotalCharges 5.527e-05 6.273e-06 8.811 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3775 on 7021 degrees of freedom  
## Multiple R-squared: 0.2707, Adjusted R-squared: 0.2697   
## F-statistic: 260.6 on 10 and 7021 DF, p-value: < 2.2e-16

fit9<- lm(Churn~Tenure+MonthlyCharges+TotalCharges, data=tablechurn)  
summary(fit9)

##   
## Call:  
## lm(formula = Churn ~ Tenure + MonthlyCharges + TotalCharges,   
## data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.05221 -0.31778 0.09134 0.25874 0.80134   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 1.931e+00 1.795e-02 107.57 < 2e-16 \*\*\*  
## Tenure 2.774e-03 4.570e-04 6.07 1.34e-09 \*\*\*  
## MonthlyCharges -7.083e-03 2.770e-04 -25.57 < 2e-16 \*\*\*  
## TotalCharges 7.528e-05 6.318e-06 11.91 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3891 on 7028 degrees of freedom  
## Multiple R-squared: 0.2247, Adjusted R-squared: 0.2243   
## F-statistic: 678.8 on 3 and 7028 DF, p-value: < 2.2e-16

##By running the above regression we notice that independent variables like SeniorCitizen,Tenure,PhoneService,OnlineSecurity  
##DeviceProtection,TechSupportContract,PaperlessBilling,MonthlyCharges and TotalCharges could be factors  
##that cause person to churn   
  
#Comparing model  
anova(fit1,fit8)

## Analysis of Variance Table  
##   
## Model 1: Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure +   
## PhoneService + MultipleLines + InternetService + OnlineBackup +   
## OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +   
## StreamingMovies + Contract + PaperlessBilling + PaymentMethod +   
## MonthlyCharges + TotalCharges  
## Model 2: Churn ~ SeniorCitizen + Tenure + PhoneService + OnlineSecurity +   
## DeviceProtection + TechSupport + Contract + PaperlessBilling +   
## MonthlyCharges + TotalCharges  
## Res.Df RSS Df Sum of Sq F Pr(>F)   
## 1 7012 994.57   
## 2 7021 1000.75 -9 -6.1797 4.8409 1.778e-06 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

step <- stepAIC(fit, direction="both")

## Start: AIC=-13714  
## Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure +   
## PhoneService + MultipleLines + InternetService + OnlineBackup +   
## OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +   
## StreamingMovies + Contract + PaperlessBilling + PaymentMethod +   
## MonthlyCharges + TotalCharges  
##   
## Df Sum of Sq RSS AIC  
## - Partner 1 0.004 994.57 -13716  
## - Gender 1 0.027 994.60 -13716  
## - InternetService 1 0.190 994.76 -13715  
## - StreamingMovies 1 0.228 994.80 -13714  
## - StreamingTV 1 0.265 994.84 -13714  
## <none> 994.57 -13714  
## - PaymentMethod 1 0.412 994.98 -13713  
## - MultipleLines 1 0.560 995.13 -13712  
## - Dependents 1 0.609 995.18 -13712  
## - Tenure 1 1.590 996.16 -13705  
## - DeviceProtection 1 1.756 996.33 -13704  
## - SeniorCitizen 1 2.092 996.66 -13701  
## - OnlineBackup 1 3.258 997.83 -13693  
## - PhoneService 1 3.267 997.84 -13693  
## - PaperlessBilling 1 3.575 998.15 -13691  
## - Contract 1 3.582 998.15 -13691  
## - OnlineSecurity 1 8.034 1002.60 -13659  
## - TechSupport 1 8.067 1002.64 -13659  
## - TotalCharges 1 9.124 1003.69 -13652  
## - MonthlyCharges 1 55.442 1050.01 -13334  
##   
## Step: AIC=-13715.97  
## Churn ~ Gender + SeniorCitizen + Dependents + Tenure + PhoneService +   
## MultipleLines + InternetService + OnlineBackup + OnlineSecurity +   
## DeviceProtection + TechSupport + StreamingTV + StreamingMovies +   
## Contract + PaperlessBilling + PaymentMethod + MonthlyCharges +   
## TotalCharges  
##   
## Df Sum of Sq RSS AIC  
## - Gender 1 0.028 994.60 -13718  
## - InternetService 1 0.190 994.76 -13717  
## - StreamingMovies 1 0.228 994.80 -13716  
## - StreamingTV 1 0.264 994.84 -13716  
## <none> 994.57 -13716  
## - PaymentMethod 1 0.411 994.98 -13715  
## - MultipleLines 1 0.562 995.14 -13714  
## + Partner 1 0.004 994.57 -13714  
## - Dependents 1 0.706 995.28 -13713  
## - Tenure 1 1.594 996.17 -13707  
## - DeviceProtection 1 1.754 996.33 -13706  
## - SeniorCitizen 1 2.131 996.71 -13703  
## - OnlineBackup 1 3.258 997.83 -13695  
## - PhoneService 1 3.264 997.84 -13695  
## - PaperlessBilling 1 3.575 998.15 -13693  
## - Contract 1 3.580 998.15 -13693  
## - OnlineSecurity 1 8.032 1002.61 -13661  
## - TechSupport 1 8.077 1002.65 -13661  
## - TotalCharges 1 9.122 1003.70 -13654  
## - MonthlyCharges 1 55.460 1050.03 -13336  
##   
## Step: AIC=-13717.78  
## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +   
## MultipleLines + InternetService + OnlineBackup + OnlineSecurity +   
## DeviceProtection + TechSupport + StreamingTV + StreamingMovies +   
## Contract + PaperlessBilling + PaymentMethod + MonthlyCharges +   
## TotalCharges  
##   
## Df Sum of Sq RSS AIC  
## - InternetService 1 0.192 994.79 -13718  
## - StreamingMovies 1 0.227 994.83 -13718  
## - StreamingTV 1 0.263 994.87 -13718  
## <none> 994.60 -13718  
## - PaymentMethod 1 0.407 995.01 -13717  
## + Gender 1 0.028 994.57 -13716  
## + Partner 1 0.004 994.60 -13716  
## - MultipleLines 1 0.564 995.17 -13716  
## - Dependents 1 0.709 995.31 -13715  
## - Tenure 1 1.595 996.20 -13708  
## - DeviceProtection 1 1.755 996.36 -13707  
## - SeniorCitizen 1 2.131 996.73 -13705  
## - OnlineBackup 1 3.250 997.85 -13697  
## - PhoneService 1 3.260 997.86 -13697  
## - Contract 1 3.577 998.18 -13694  
## - PaperlessBilling 1 3.581 998.18 -13694  
## - OnlineSecurity 1 8.016 1002.62 -13663  
## - TechSupport 1 8.070 1002.67 -13663  
## - TotalCharges 1 9.138 1003.74 -13656  
## - MonthlyCharges 1 55.471 1050.07 -13338  
##   
## Step: AIC=-13718.42  
## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +   
## MultipleLines + OnlineBackup + OnlineSecurity + DeviceProtection +   
## TechSupport + StreamingTV + StreamingMovies + Contract +   
## PaperlessBilling + PaymentMethod + MonthlyCharges + TotalCharges  
##   
## Df Sum of Sq RSS AIC  
## - StreamingMovies 1 0.227 995.02 -13719  
## - StreamingTV 1 0.260 995.05 -13719  
## <none> 994.79 -13718  
## + InternetService 1 0.192 994.60 -13718  
## - PaymentMethod 1 0.425 995.22 -13717  
## + Gender 1 0.030 994.76 -13717  
## + Partner 1 0.004 994.79 -13716  
## - MultipleLines 1 0.591 995.39 -13716  
## - Dependents 1 0.704 995.50 -13715  
## - Tenure 1 1.630 996.42 -13709  
## - DeviceProtection 1 1.916 996.71 -13707  
## - SeniorCitizen 1 2.167 996.96 -13705  
## - PhoneService 1 3.078 997.87 -13699  
## - Contract 1 3.416 998.21 -13696  
## - PaperlessBilling 1 3.542 998.34 -13695  
## - OnlineBackup 1 3.573 998.37 -13695  
## - TotalCharges 1 8.950 1003.74 -13657  
## - TechSupport 1 9.356 1004.15 -13655  
## - OnlineSecurity 1 9.522 1004.32 -13653  
## - MonthlyCharges 1 56.102 1050.90 -13335  
##   
## Step: AIC=-13718.82  
## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +   
## MultipleLines + OnlineBackup + OnlineSecurity + DeviceProtection +   
## TechSupport + StreamingTV + Contract + PaperlessBilling +   
## PaymentMethod + MonthlyCharges + TotalCharges  
##   
## Df Sum of Sq RSS AIC  
## <none> 995.02 -13719  
## - StreamingTV 1 0.317 995.34 -13719  
## + StreamingMovies 1 0.227 994.79 -13718  
## + InternetService 1 0.192 994.83 -13718  
## - PaymentMethod 1 0.417 995.44 -13718  
## + Gender 1 0.029 994.99 -13717  
## + Partner 1 0.004 995.02 -13717  
## - MultipleLines 1 0.656 995.68 -13716  
## - Dependents 1 0.706 995.73 -13716  
## - Tenure 1 1.588 996.61 -13710  
## - DeviceProtection 1 1.937 996.96 -13707  
## - SeniorCitizen 1 2.189 997.21 -13705  
## - PhoneService 1 2.860 997.88 -13701  
## - OnlineBackup 1 3.421 998.44 -13697  
## - PaperlessBilling 1 3.558 998.58 -13696  
## - Contract 1 3.709 998.73 -13695  
## - TotalCharges 1 9.282 1004.30 -13656  
## - TechSupport 1 9.287 1004.31 -13656  
## - OnlineSecurity 1 9.316 1004.34 -13655  
## - MonthlyCharges 1 60.876 1055.90 -13303

step$anova

## Stepwise Model Path   
## Analysis of Deviance Table  
##   
## Initial Model:  
## Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure +   
## PhoneService + MultipleLines + InternetService + OnlineBackup +   
## OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +   
## StreamingMovies + Contract + PaperlessBilling + PaymentMethod +   
## MonthlyCharges + TotalCharges  
##   
## Final Model:  
## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +   
## MultipleLines + OnlineBackup + OnlineSecurity + DeviceProtection +   
## TechSupport + StreamingTV + Contract + PaperlessBilling +   
## PaymentMethod + MonthlyCharges + TotalCharges  
##   
##   
## Step Df Deviance Resid. Df Resid. Dev AIC  
## 1 7012 994.5705 -13714.00  
## 2 - Partner 1 0.003531785 7013 994.5741 -13715.97  
## 3 - Gender 1 0.027527274 7014 994.6016 -13717.78  
## 4 - InternetService 1 0.192459783 7015 994.7941 -13718.42  
## 5 - StreamingMovies 1 0.226610422 7016 995.0207 -13718.82

predict.lm(fit8, data.frame(SeniorCitizen = 0,Tenure =20,PhoneService = 1,OnlineSecurity = 2,  
 DeviceProtection = 1,TechSupport = 2,Contract = 3,PaperlessBilling = 1,  
 MonthlyCharges = 100,TotalCharges=1000) )

## 1   
## 1.490098

##By running the above prediction model using values like the user not being senior citizen,Tenure  
##being 20 months, leveraging Phoneservice,DeviceProtection and PaperlessBilling, not using OnlineSecurity  
##and TechSupport, having contract of 2 years, MonthlyCharges and TotalCharges being 100 &1000 respectively  
##there is a likelihood of this customer churning