

Eric_Hirsch_621_Assignment_3

Predicting Town Crime Rates

Eric Hirsch

4/7/2022

Contents

| | |
|--|-----|
| 1. Data Exploration | 2 |
| A. Summary Statistics | 2 |
| B. Multicollinearity | 5 |
| 2. Data Preparation | 516 |
| A. Interaction terms | 516 |
| B. Transformations | 517 |
| 3. Build Models | 517 |
| A. Base Model | 517 |
| C. Enhanced Model with Interaction Terms | 517 |
| 4. Select Model | 517 |
| 5. Conclusion | 517 |

```
knitr::opts_chunk$set(echo = TRUE, warning = FALSE, message = FALSE)
```

```
library(tidyverse)
devtools::install_github("ericonsi/EHData", force=TRUE)
```

```
##      v  checking for file 'C:\Users\Eric\AppData\Local\Temp\RtmpQjodce\remotes3258906ec9\ericonsi-EHData_0.1.0.Rcheck'
##      -  preparing 'EHData':
##      checking DESCRIPTION meta-information ...      checking DESCRIPTION meta-information ...      v  checking
##      -  checking for LF line-endings in source and make files and shell scripts
## -  checking for empty or unneeded directories
##      -  creating default NAMESPACE file
##      -  building 'EHData_0.1.0.tar.gz'
##
##
```

```
library(EHData)
library(patchwork)
library(gridExtra)
library(ggsci)
```

```

library(caret)
library(pROC)
library(car)
library(Metrics)

df <- read.csv("D:\\RStudio\\CUNY_621\\Assignment 3\\crime-training-data_modified.csv")
dfEval <- read.csv("D:\\RStudio\\CUNY_621\\Assignment 3\\crime-training-data_modified.csv")

df2 <- read.csv("D:\\RStudio\\CUNY_621\\Assignment 4\\insurance_training_data.csv")

```

1. Data Exploration

A. Summary Statistics We first examine the data. The dataset consists of 466 observations and 13 variables, all numeric. Two are binary, including the target. There are no missing values. The target appears to be relatively balanced (which makes sense, as it is an indicator of being above or below the median.)

```

library(readr)
df2$OLDCLAIM <- parse_number(df2$OLDCLAIM)
df2$INCOME <- parse_number(df2$INCOME)
df2$HOME_VAL <- parse_number(df2$HOME_VAL)
df2$BLUEBOOK <- parse_number(df2$BLUEBOOK)

```

```

library(tidytable)

cols <- c('PARENT1', 'MSTATUS', 'SEX', 'CAR_TYPE', 'RED_CAR', 'REVOKED', 'JOB', 'CAR_USE', 'EDUCATION', 'TARGET_FLAG')

df3 <- df2 %>%
  get_dummies.(cols, drop_first = TRUE) %>%
  dplyr::select(-cols)

df4 <- data.frame(df3)

df2Crashed <- df4 %>%
  dplyr::filter(TARGET_FLAG==1.0)

dfc5 <- df2Crashed %>%
#dplyr::filter(row_number() %% 3 == 1) %>%
  dplyr::select(-INDEX, -TARGET_FLAG)

summary(dfc5)

```

| | TARGET_AMT | KIDSDRV | AGE | HOMEKIDS |
|-------------|------------|----------------|--------------|----------------|
| ## Min. | 30.28 | Min. :0.0000 | Min. :16.0 | Min. :0.0000 |
| ## 1st Qu.: | 2609.78 | 1st Qu.:0.0000 | 1st Qu.:37.0 | 1st Qu.:0.0000 |
| ## Median : | 4104.00 | Median :0.0000 | Median :43.0 | Median :0.0000 |
| ## Mean : | 5702.18 | Mean :0.2596 | Mean :43.3 | Mean :0.9368 |
| ## 3rd Qu.: | 5787.00 | 3rd Qu.:0.0000 | 3rd Qu.:50.0 | 3rd Qu.:2.0000 |
| ## Max. : | 107586.14 | Max. :4.0000 | Max. :76.0 | Max. :5.0000 |
| ## | | | NA's :5 | |

```

##      YOJ          INCOME        HOME_VAL       TRAVTIME
##  Min.   : 0.00   Min.   :    0   Min.   :    0   Min.   : 5.00
##  1st Qu.: 9.00   1st Qu.: 20837  1st Qu.:    0   1st Qu.:24.00
##  Median :11.00   Median : 43971  Median :114565  Median :34.00
##  Mean   :10.02   Mean   : 50641  Mean   :115257  Mean   :34.77
##  3rd Qu.:13.00   3rd Qu.: 69561  3rd Qu.:198116 3rd Qu.:45.00
##  Max.   :19.00   Max.   :320127  Max.   :750455  Max.   :97.00
##  NA's    :123    NA's    :110    NA's    :121
##      BLUEBOOK      TIF          OLDCLAIM      CLM_FREQ
##  Min.   :1500    Min.   : 1.000   Min.   :    0   Min.   :0.000
##  1st Qu.:7760    1st Qu.: 1.000   1st Qu.:    0   1st Qu.:0.000
##  Median :12600   Median : 4.000   Median : 2448   Median :1.000
##  Mean   :14256   Mean   : 4.781   Mean   : 6062   Mean   :1.217
##  3rd Qu.:19210   3rd Qu.: 7.000   3rd Qu.: 6906   3rd Qu.:2.000
##  Max.   :62240   Max.   :21.000   Max.   :57037   Max.   :5.000
##
##      MVR PTS        CAR AGE        PARENT1_Yes      MSTATUS_Yes
##  Min.   : 0.0000  Min.   :-3.000   Min.   :0.0000  Min.   :0.0000
##  1st Qu.: 0.0000  1st Qu.: 1.000   1st Qu.:0.0000  1st Qu.:0.0000
##  Median : 2.0000  Median : 7.000   Median :0.0000  Median :0.0000
##  Mean   : 2.4820  Mean   : 7.367   Mean   :0.2211  Mean   :0.4891
##  3rd Qu.: 4.0000  3rd Qu.:11.000  3rd Qu.:0.0000  3rd Qu.:1.0000
##  Max.   :13.0000  Max.   :25.000   Max.   :1.0000  Max.   :1.0000
##  NA's    :142
##      SEX z F      CAR TYPE Panel.Truck CAR TYPE Pickup  CAR TYPE Sports.Car
##  Min.   :0.00000  Min.   :0.000000  Min.   :0.00000  Min.   :0.00000
##  1st Qu.:0.00000  1st Qu.:0.000000  1st Qu.:0.00000  1st Qu.:0.00000
##  Median :1.00000  Median :0.000000  Median :0.00000  Median :0.00000
##  Mean   :0.55360  Mean   :0.082680  Mean   :0.20580  Mean   :0.14120
##  3rd Qu.:1.00000  3rd Qu.:0.000000  3rd Qu.:0.00000  3rd Qu.:0.00000
##  Max.   :1.00000  Max.   :1.000000  Max.   :1.00000  Max.   :1.00000
##
##      CAR TYPE Van      CAR TYPE z SUV      RED CAR no      REVOKED Yes
##  Min.   :0.00000  Min.   :0.00000  Min.   :0.00000  Min.   :0.00000
##  1st Qu.:0.00000  1st Qu.:0.00000  1st Qu.:0.00000  1st Qu.:0.00000
##  Median :0.00000  Median :0.00000  Median :1.00000  Median :0.00000
##  Mean   :0.09336  Mean   :0.31490  Mean   :0.71390  Mean   :0.20580
##  3rd Qu.:0.00000  3rd Qu.:1.00000  3rd Qu.:1.00000  3rd Qu.:0.00000
##  Max.   :1.00000  Max.   :1.00000  Max.   :1.00000  Max.   :1.00000
##
##      JOB_          JOB Clerical      JOB Doctor      JOB Home.Maker
##  Min.   :0.00000  Min.   :0.00000  Min.   :0.000000  Min.   :0.00000
##  1st Qu.:0.00000  1st Qu.:0.00000  1st Qu.:0.000000  1st Qu.:0.00000
##  Median :0.00000  Median :0.00000  Median :0.000000  Median :0.00000
##  Mean   :0.06317  Mean   :0.17230  Mean   :0.013470  Mean   :0.08360
##  3rd Qu.:0.00000  3rd Qu.:0.00000  3rd Qu.:0.000000  3rd Qu.:0.00000
##  Max.   :1.00000  Max.   :1.00000  Max.   :1.000000  Max.   :1.00000
##
##      JOB Lawyer      JOB Manager      JOB Student      JOB z Blue.Collar
##  Min.   :0.00000  Min.   :0.00000  Min.   :0.00000  Min.   :0.00000
##  1st Qu.:0.00000  1st Qu.:0.00000  1st Qu.:0.00000  1st Qu.:0.00000
##  Median :0.00000  Median :0.00000  Median :0.00000  Median :0.00000
##  Mean   :0.07106  Mean   :0.06363  Mean   :0.12350  Mean   :0.29450
##  3rd Qu.:0.00000  3rd Qu.:0.00000  3rd Qu.:0.00000  3rd Qu.:1.00000

```

```

##  Max.    :1.00000  Max.    :1.00000  Max.    :1.0000  Max.    :1.0000
##
##  CAR_USE_Commercial EDUCATION_.High.School EDUCATION_Bachelors
##  Min.    :0.0000    Min.    :0.0000    Min.    :0.0000
##  1st Qu.:0.0000    1st Qu.:0.0000    1st Qu.:0.0000
##  Median :0.0000    Median :0.0000    Median :0.0000
##  Mean   :0.4863    Mean   :0.1788    Mean   :0.2429
##  3rd Qu.:1.0000    3rd Qu.:0.0000    3rd Qu.:0.0000
##  Max.    :1.0000    Max.    :1.0000    Max.    :1.0000
##
##  EDUCATION_Masters EDUCATION_z_High.School URBANICITY_z_Highly.Rural..Rural
##  Min.    :0.0000    Min.    :0.0000    Min.    :0.00000
##  1st Qu.:0.0000    1st Qu.:0.0000    1st Qu.:0.00000
##  Median :0.0000    Median :0.0000    Median :0.00000
##  Mean   :0.1519    Mean   :0.3683    Mean   :0.05341
##  3rd Qu.:0.0000    3rd Qu.:1.0000    3rd Qu.:0.00000
##  Max.    :1.0000    Max.    :1.0000    Max.    :1.00000
##

```

```
str(dfc5)
```

```

## 'data.frame': 2153 obs. of 38 variables:
## $ TARGET_AMT           : num 2946 4021 2501 6077 1267 ...
## $ KIDSDRV              : int 0 1 0 0 0 0 0 0 0 ...
## $ AGE                  : int 34 37 34 53 53 45 28 43 32 40 ...
## $ HOMEKIDS             : int 1 2 0 0 0 1 0 1 0 ...
## $ YOJ                  : int 12 NA 10 14 11 0 13 13 9 11 ...
## $ INCOME               : num 125301 107961 62978 77100 130795 ...
## $ HOME_VAL              : num 0 333680 0 0 0 ...
## $ TRAVTIME              : int 46 44 34 15 64 48 29 52 26 20 ...
## $ BLUEBOOK              : num 17430 16970 11200 18300 28340 ...
## $ TIF                  : int 1 1 1 1 6 1 6 1 1 4 ...
## $ OLDCLAIM              : num 0 2374 0 0 0 ...
## $ CLM_FREQ              : int 0 1 0 0 0 0 2 0 0 1 ...
## $ MVR_PTS               : int 0 10 0 0 3 3 0 3 0 13 ...
## $ CAR_AGE               : int 7 7 1 11 10 5 1 1 1 6 ...
## $ PARENT1_Yes            : int 1 0 0 0 0 0 0 0 0 0 ...
## $ MSTATUS_Yes            : int 0 1 0 0 0 1 1 1 1 0 ...
## $ SEX_z_F                : int 1 0 1 1 0 1 1 0 1 0 ...
## $ CAR_TYPE_Panel.Truck  : int 0 0 0 0 1 0 0 1 0 0 ...
## $ CAR_TYPE_Pickup        : int 0 0 0 0 0 0 0 0 0 1 ...
## $ CAR_TYPE_Sports.Car   : int 1 0 0 1 0 0 0 0 0 0 ...
## $ CAR_TYPE_Van            : int 0 1 0 0 0 0 0 0 0 0 ...
## $ CAR_TYPE_z_SUV          : int 0 0 1 0 0 1 1 0 1 0 ...
## $ RED_CAR_no              : int 1 0 1 1 0 1 1 0 1 0 ...
## $ REVOKED_Yes             : int 0 1 0 0 0 0 0 0 0 1 ...
## $ JOB_                   : int 0 0 0 0 1 0 0 0 0 0 ...
## $ JOB_Clerical            : int 0 0 1 0 0 0 0 0 1 0 ...
## $ JOB_Doctor              : int 0 0 0 0 0 0 0 0 0 0 ...
## $ JOB_Home.Maker          : int 0 0 0 0 0 1 0 0 0 0 ...
## $ JOB_Lawyer              : int 0 0 0 1 0 0 0 0 0 0 ...
## $ JOB_Manager              : int 0 0 0 0 0 0 0 0 0 0 ...
## $ JOB_Student              : int 0 0 0 0 0 0 0 0 0 0 ...
## $ JOB_z_Blue.Collar        : int 1 1 0 0 0 0 1 1 0 1 ...

```

```

##  $ CAR_USE_Commercial          : int  1 1 0 0 1 0 1 1 0 1 ...
##  $ EDUCATION_.High.School      : int  0 0 0 0 0 1 0 1 0 1 ...
##  $ EDUCATION_Bachelors         : int  1 1 1 0 0 0 0 0 0 0 ...
##  $ EDUCATION_Masters           : int  0 0 0 1 0 0 0 0 0 0 ...
##  $ EDUCATION_z_High.School     : int  0 0 0 0 0 0 1 0 1 0 ...
##  $ URBANICITY_z_Highly.Rural..Rural: int  0 0 0 0 0 0 0 0 0 0 ...

library(psych)

dfc6_MissingFlags <- dfc5 %>%
  mutate(YOJ_NA = ifelse(is.na(YOJ), 1, 0), INCOME_NA = ifelse(is.na(INCOME) | INCOME==0, 1, 0), CAR_AGE_NA = ifelse(is.na(CAR_AGE), 1, 0))

#a <- EHSummarize_StandardPlots(dfc6, "TARGET_AMT", type="scatter")

```

What do you see? goes here

```
#EHExplorExplore_Multicollinearity(dfc6, run_all=FALSE)
```

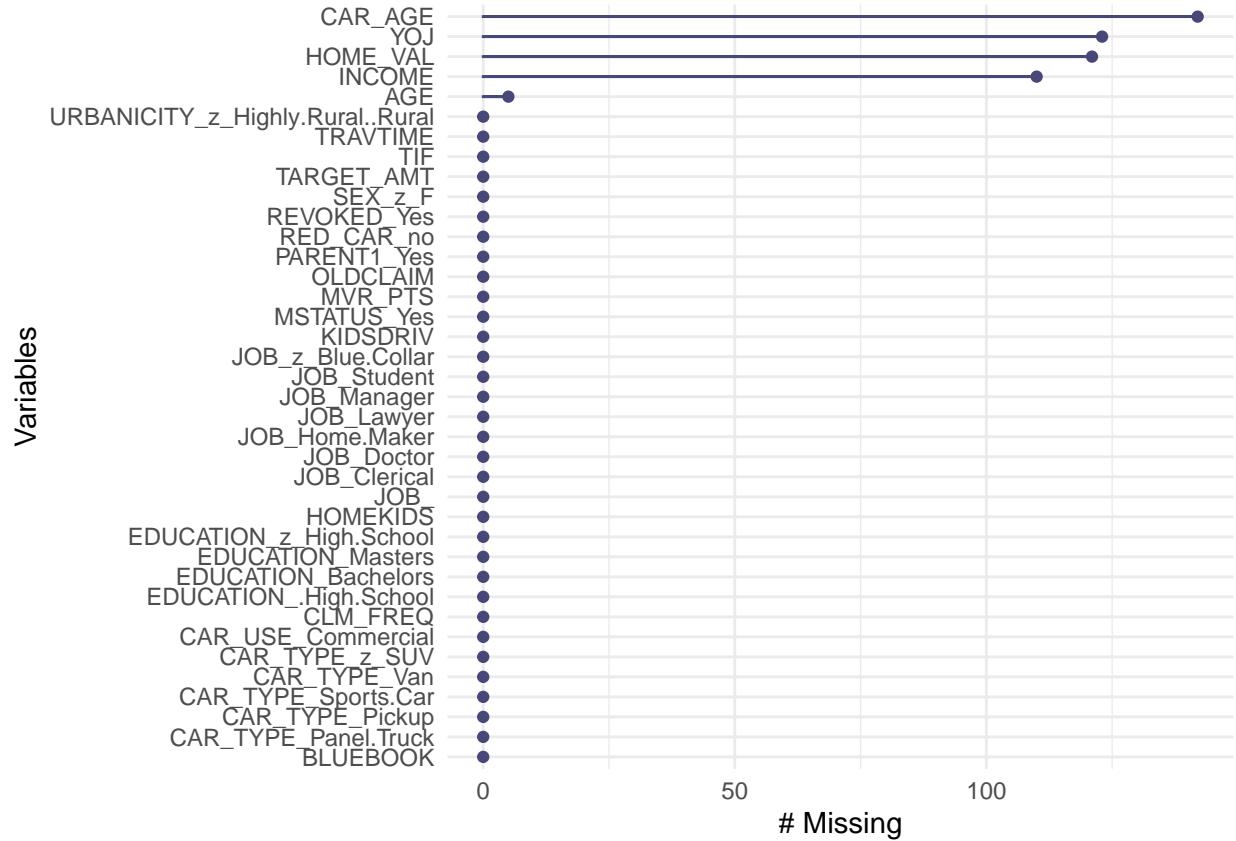
```

library(MASS)
EHSummarize_MissingValues(dfc5)

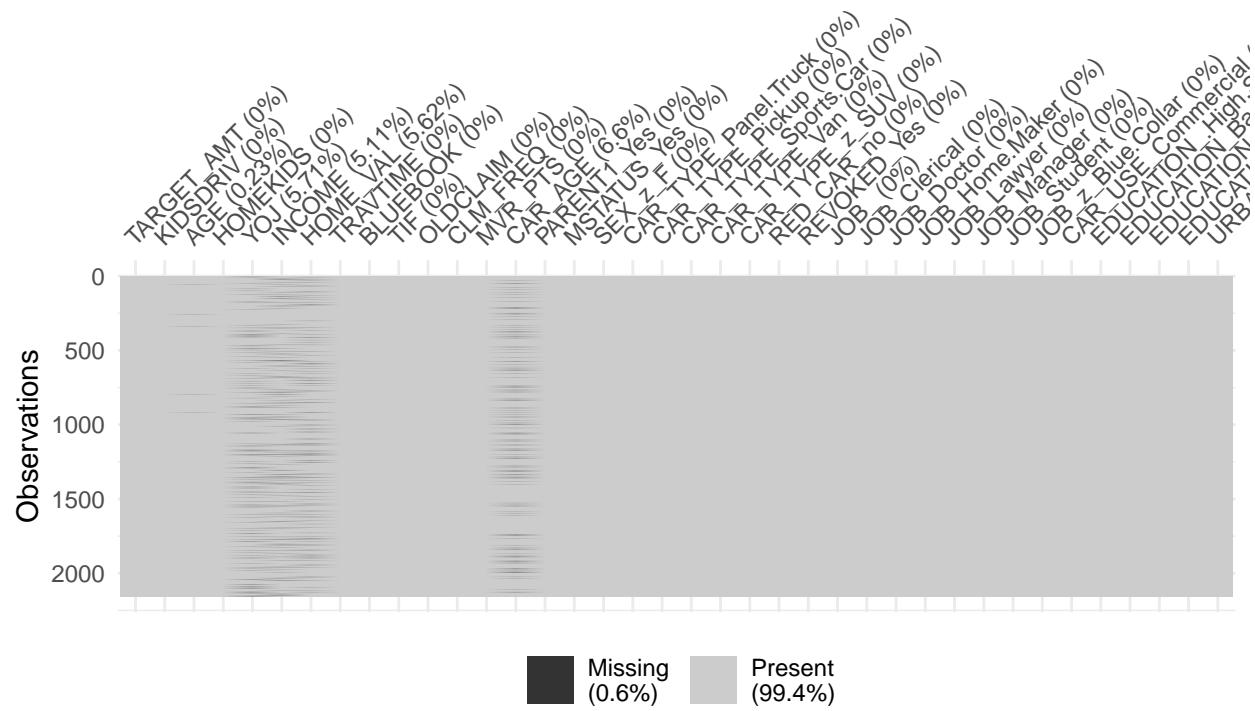
```

B. Multicollinearity

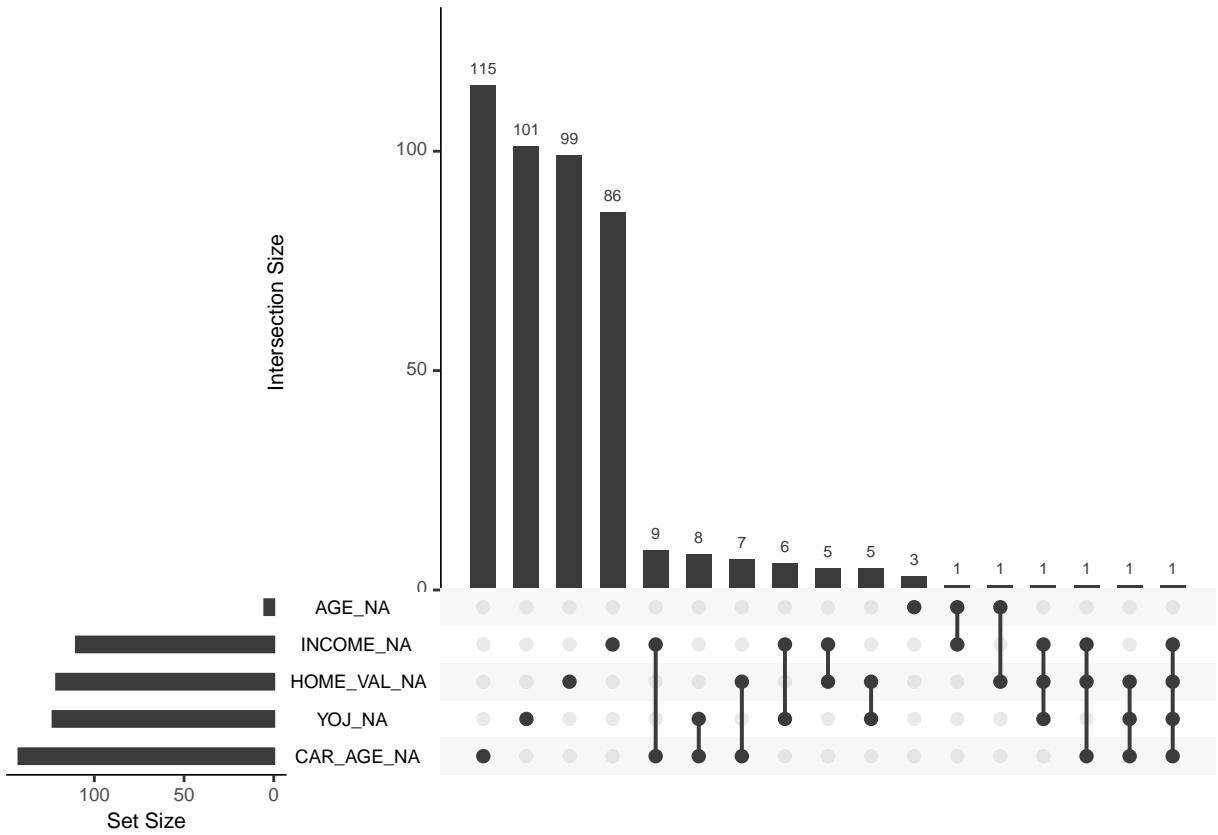
```
## [[1]]
```



```
##  
## [[2]]
```



```
##  
## [[3]]
```



```

dfc6 <- dfc5 %>%
  mutate(YOJ_NA = ifelse(is.na(YOJ), 0, 1), INCOME_NA = ifelse(is.na(INCOME), 0, 1), CAR_AGE_NA = ifelse(is.na(CAR_AGE), 0, 1))

dfMissing <- dfc6 %>%
  dplyr::select(TARGET_AMT, YOJ_NA, INCOME_NA, CAR_AGE_NA, HOME_VAL_NA)

m1 <- lm(TARGET_AMT ~ ., dfMissing)
summary(m1)

```

```

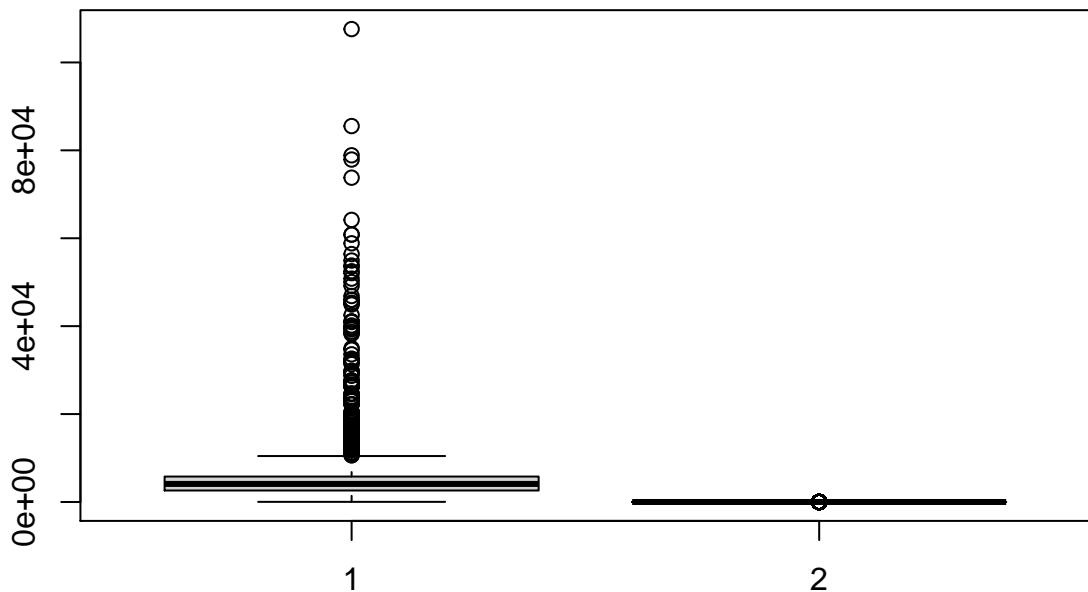
##
## Call:
## lm(formula = TARGET_AMT ~ ., data = dfMissing)
##
## Residuals:
##    Min     1Q Median     3Q    Max 
## -6129  -3077 -1576    128 101295 
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 6406.93   1333.24   4.806 1.65e-06 ***
## YOJ_NA      -628.26    719.61  -0.873   0.383    
## INCOME_NA      67.14    758.88   0.088   0.930    
## CAR_AGE_NA     370.88   673.21   0.551   0.582    
## HOME_VAL_NA   -553.62   725.20  -0.763   0.445    
## ---
## 
```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7747 on 2148 degrees of freedom
## Multiple R-squared:  0.000763,  Adjusted R-squared:  -0.001098
## F-statistic:  0.41 on 4 and 2148 DF,  p-value: 0.8015

```

```
boxplot(dfc6$TARGET_AMT, dfc6$CAR_AGE_NA)
```



```
#dfc6$TARGET_AMT <- EHPrepare_MissingValues_Imputation(dfc5, "TARGET_AMT")
```

```
dfM1 <- dfc6 %>%
  dplyr::select(-CAR_AGE, -INCOME, -HOME_VAL)
```

```
#EHExplorations_Scatterplots(dfM1, "TARGET_AMT", "YOJ_NA")
```

```
#EHExplorations_Multicollinearity(df5, run_all = TRUE)
```

```
#Missing
```

```
library(mice)
```

```
dfc51 <- dfc5 %>%
  mutate(INCOME=ifelse(INCOME==0, NA, INCOME), HOME_VAL=ifelse(HOME_VAL==0, NA, HOME_VAL))
```

```
mice1 <- mice(dfc51,m=5,seed=2)
```

```

## iter imp variable
## 1 1 AGE YOJ INCOME HOME_VAL CAR_AGE
## 1 2 AGE YOJ INCOME HOME_VAL CAR_AGE
## 1 3 AGE YOJ INCOME HOME_VAL CAR_AGE
## 1 4 AGE YOJ INCOME HOME_VAL CAR_AGE
## 1 5 AGE YOJ INCOME HOME_VAL CAR_AGE
## 2 1 AGE YOJ INCOME HOME_VAL CAR_AGE
## 2 2 AGE YOJ INCOME HOME_VAL CAR_AGE
## 2 3 AGE YOJ INCOME HOME_VAL CAR_AGE
## 2 4 AGE YOJ INCOME HOME_VAL CAR_AGE
## 2 5 AGE YOJ INCOME HOME_VAL CAR_AGE
## 3 1 AGE YOJ INCOME HOME_VAL CAR_AGE
## 3 2 AGE YOJ INCOME HOME_VAL CAR_AGE
## 3 3 AGE YOJ INCOME HOME_VAL CAR_AGE
## 3 4 AGE YOJ INCOME HOME_VAL CAR_AGE
## 3 5 AGE YOJ INCOME HOME_VAL CAR_AGE
## 4 1 AGE YOJ INCOME HOME_VAL CAR_AGE
## 4 2 AGE YOJ INCOME HOME_VAL CAR_AGE
## 4 3 AGE YOJ INCOME HOME_VAL CAR_AGE
## 4 4 AGE YOJ INCOME HOME_VAL CAR_AGE
## 4 5 AGE YOJ INCOME HOME_VAL CAR_AGE
## 5 1 AGE YOJ INCOME HOME_VAL CAR_AGE
## 5 2 AGE YOJ INCOME HOME_VAL CAR_AGE
## 5 3 AGE YOJ INCOME HOME_VAL CAR_AGE
## 5 4 AGE YOJ INCOME HOME_VAL CAR_AGE
## 5 5 AGE YOJ INCOME HOME_VAL CAR_AGE

```

```
dfc7 <- complete(mice1,1)
```

```
#1. Base - outliers and nonnormal distribution and heteroskedastic
```

```
aa <- EHModel_Regression_StandardLM(dfc7, "TARGET_AMT")
```

```

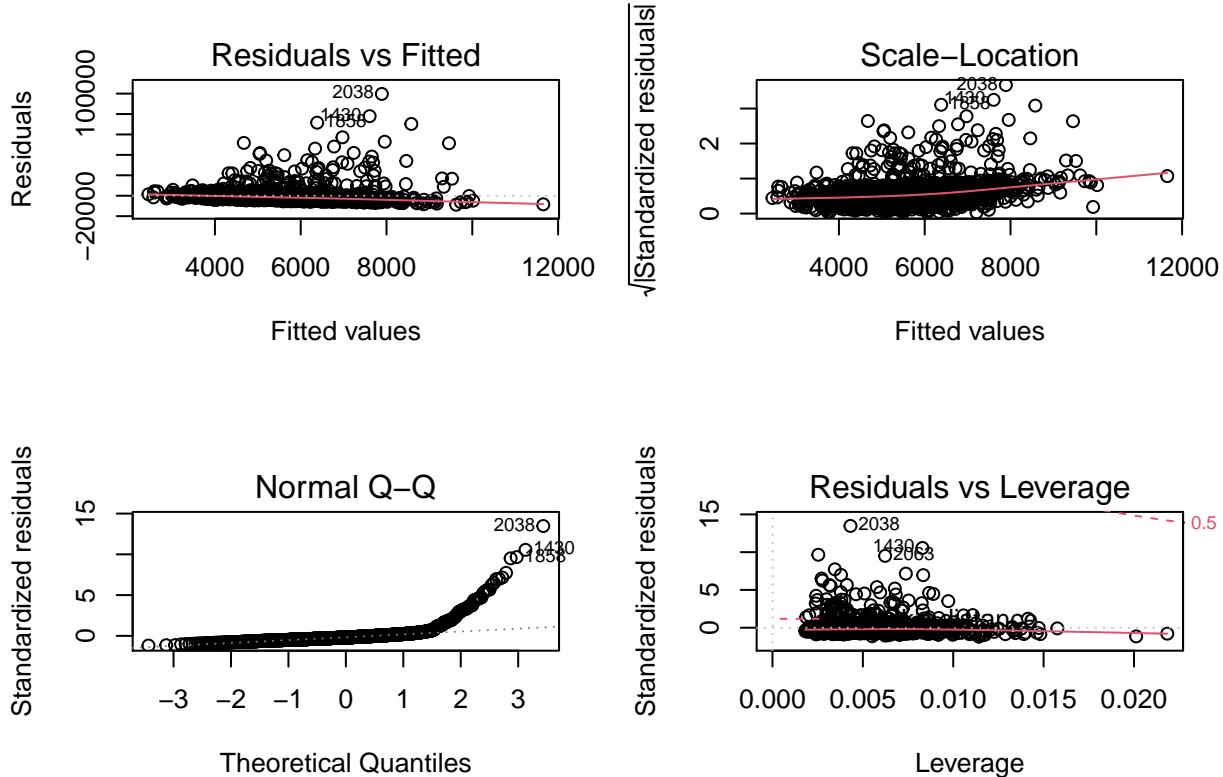
##
## Call:
## lm(formula = TARGET_AMT ~ BLUEBOOK + MVR PTS + CAR_AGE + SEX_z_F +
##     CAR_TYPE_Sports.Car + CAR_TYPE_z_SUV + REVOKED_Yes + EDUCATION_z_High.School,
##     data = train_reg)
##
## Residuals:
##    Min      1Q Median      3Q      Max
##   -8785   -2995   -1501     517   99695
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)             4.741e+03  5.853e+02   8.100 1.04e-15 ***
## BLUEBOOK                1.231e-01  2.389e-02   5.154 2.84e-07 ***
## MVR PTS                 1.699e+02  6.928e+01   2.452  0.0143 *
## CAR_AGE                 -8.956e+01  3.624e+01  -2.471  0.0136 *
## SEX_z_F                  -1.278e+03  5.732e+02  -2.230  0.0259 *
## CAR_TYPE_Sports.Car      1.252e+03  7.313e+02   1.713  0.0870 .
## CAR_TYPE_z_SUV            1.029e+03  6.212e+02   1.657  0.0977 .

```

```

## REVOKED_Yes           -8.325e+02  4.455e+02 -1.869   0.0618 .
## EDUCATION_z_High.School -9.303e+02  4.091e+02 -2.274   0.0231 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7416 on 1689 degrees of freedom
## Multiple R-squared:  0.02726,    Adjusted R-squared:  0.02265
## F-statistic: 5.916 on 8 and 1689 DF,  p-value: 1.703e-07
##
## [1] "VIF Analysis"
##          BLUEBOOK            MVR PTS             CAR AGE
##          1.232241            1.004209
##          SEX z F            CAR TYPE Sports.Car
##          2.503161            1.968590
##          REVOKED Yes EDUCATION z High.School
##          1.000525            1.201888

```



```

## NULL
##
## studentized Breusch-Pagan test
##
## data: step3
## BP = 34.16, df = 8, p-value = 3.801e-05
##
## Shapiro-Wilk normality test

```

```

##  

## data: step3$residuals  

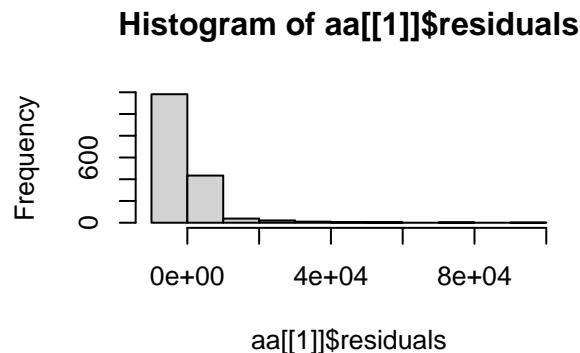
## W = 0.49373, p-value < 2.2e-16  

##  

## [1] "RMSE: 8591.2031596078"

```

```
hist(aa[[1]]$residuals)
```



```
#xd <- EHModel_Regression_Robust_Iterations(dfc7, "TARGET_AMT")
```

```
# same thing with mean imputation instead
```

```
dfc7a <- EHPrepare_MissingValues_Imputation(dfc51, "TARGET_AMT")
```

```
## [1] "type:" "mean"  

## [1] "r2mean:" "0.0196"  

## [1] "r2median:" "0.0196"  

## [1] "r2omit" "0.0294"
```

```
aq <- EHModel_Regression_StandardLM(dfc7a, "TARGET_AMT")
```

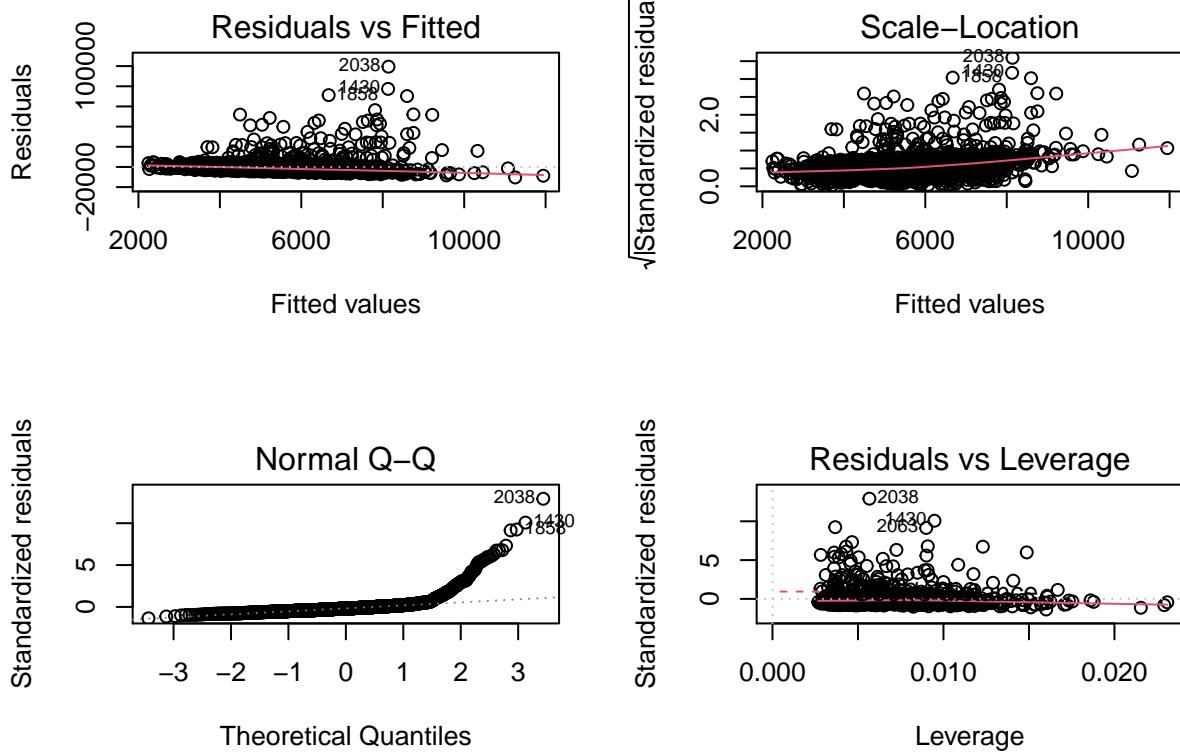
```
##  

## Call:
```

```

## lm(formula = TARGET_AMT ~ BLUEBOOK + MVR PTS + CAR AGE + MSTATUS_Yes +
##     SEX_z_F + CAR_TYPE_Panel.Truck + CAR_TYPE_Sports.Car + CAR_TYPE_z_SUV +
##     REVOKED_Yes + EDUCATION_z_High.School, data = train_reg)
##
## Residuals:
##   Min     1Q Median     3Q    Max
## -10414 -3197 -1496    530 99445
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)            4.819e+03  6.536e+02   7.373 2.60e-13 ***
## BLUEBOOK                1.662e-01  2.999e-02   5.541 3.47e-08 ***
## MVR PTS                 1.663e+02  7.351e+01   2.262 0.02379 *
## CAR AGE                -7.874e+01  3.868e+01  -2.036 0.04194 *
## MSTATUS_Yes              -6.159e+02  3.773e+02  -1.633 0.10276
## SEX_z_F                  -2.030e+03  6.285e+02  -3.230 0.00126 **
## CAR_TYPE_Panel.Truck    -1.780e+03  8.678e+02  -2.051 0.04039 *
## CAR_TYPE_Sports.Car      1.461e+03  7.661e+02   1.908 0.05662 .
## CAR_TYPE_z_SUV             1.537e+03  6.592e+02   2.332 0.01981 *
## REVOKED_Yes               -9.030e+02  4.638e+02  -1.947 0.05170 .
## EDUCATION_z_High.School -7.588e+02  4.254e+02  -1.784 0.07468 .
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7722 on 1689 degrees of freedom
## Multiple R-squared:  0.03065, Adjusted R-squared:  0.02491
## F-statistic: 5.341 on 10 and 1689 DF, p-value: 8.455e-08
##
## [1] "VIF Analysis"
##          BLUEBOOK           MVR PTS           CAR AGE
## 1.741619            1.005302          1.217097
## MSTATUS_Yes          SEX_z_F           CAR_TYPE_Panel.Truck
## 1.013628            2.784311          1.590822
## CAR_TYPE_Sports.Car CAR_TYPE_z_SUV       REVOKED_Yes
## 1.964536            2.685428          1.002501
## EDUCATION_z_High.School
## 1.197134

```



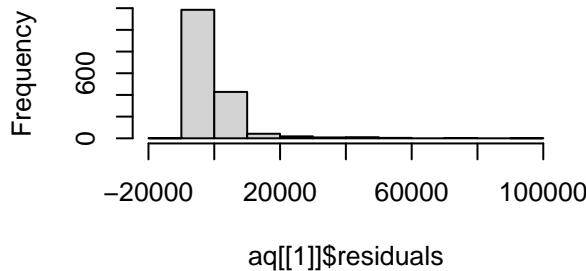
```

## NULL
##
## studentized Breusch-Pagan test
##
## data: step3
## BP = 38.05, df = 10, p-value = 3.719e-05
##
## Shapiro-Wilk normality test
##
## data: step3$residuals
## W = 0.50028, p-value < 2.2e-16
##
## [1] "RMSE: 7514.51923893957"

hist(aq[[1]]$residuals)

```

Histogram of aq[[1]]\$residuals



```
#2. Remove main outliers - just results in new outliers and distribution is the same and still heteroskedasticity

dfc71 <- dfc7 %>%
  dplyr::filter(rownames(dfc7) != 66, rownames(dfc7) != 26, rownames(dfc7) != 183, rownames(dfc7) != 570)

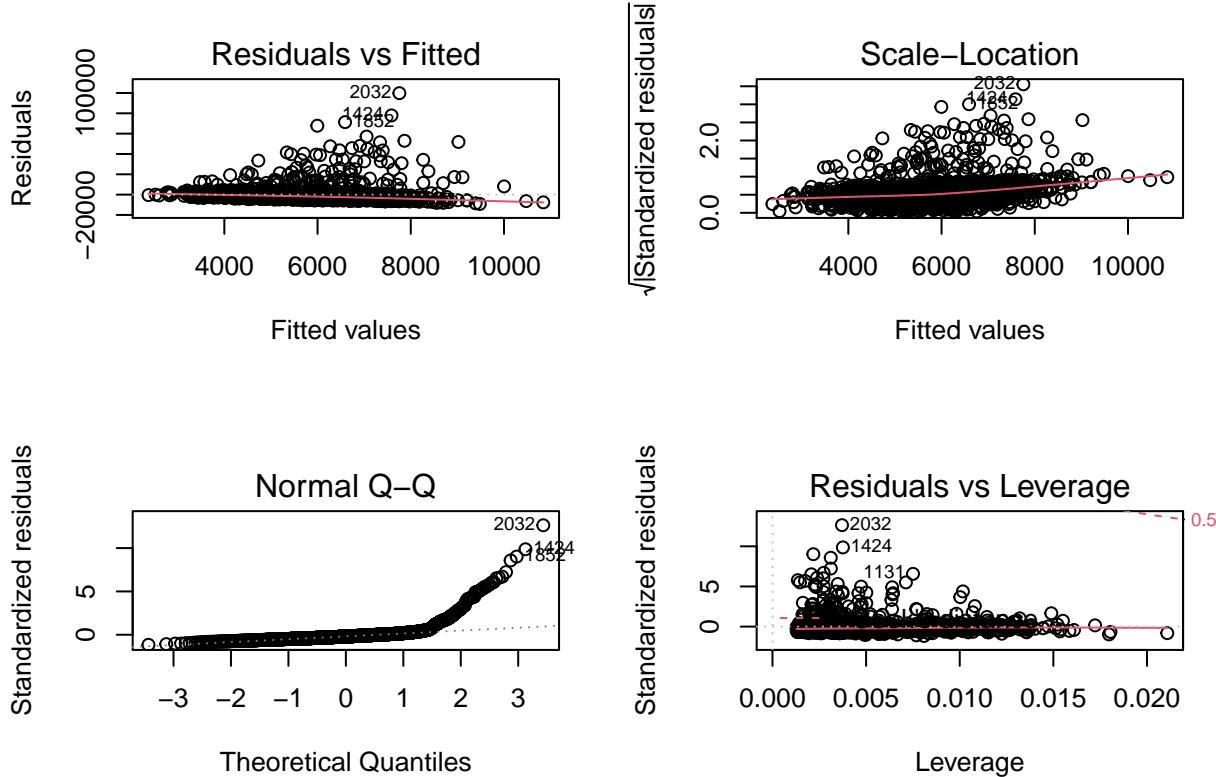
bb <- EHModel_Regression_StandardLM(dfc71, "TARGET_AMT")

##  
## Call:  
## lm(formula = TARGET_AMT ~ BLUEBOOK + MVR_PTS + CAR_AGE + REVOKED_Yes +  
##       JOB_Home.Maker + JOB_Manager + EDUCATION_z_High.School, data = train_reg)  
##  
## Residuals:  
##    Min     1Q Median     3Q    Max  
## -9165 -3249 -1582    285 99830  
##  
## Coefficients:  
##                               Estimate Std. Error t value Pr(>|t|)  
## (Intercept)             5.245e+03  5.810e+02   9.029 < 2e-16 ***  
## BLUEBOOK                9.994e-02  2.375e-02   4.208 2.72e-05 ***  
## MVR_PTS                 1.304e+02  7.375e+01   1.767  0.0773 .  
## CAR_AGE                 -7.067e+01  3.858e+01  -1.832  0.0672 .  
## REVOKED_Yes              -9.210e+02  4.772e+02  -1.930  0.0538 .  
## JOB_Home.Maker           -1.199e+03  6.963e+02  -1.722  0.0852 .  
## JOB_Manager              -1.154e+03  8.026e+02  -1.438  0.1507  
## EDUCATION_z_High.School -9.004e+02  4.384e+02  -2.054  0.0401 *
```

```

## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7916 on 1686 degrees of freedom
## Multiple R-squared: 0.02108, Adjusted R-squared: 0.01702
## F-statistic: 5.187 on 7 and 1686 DF, p-value: 7.322e-06
##
## [1] "VIF Analysis"
##          BLUEBOOK           MVR_PTS           CAR_AGE
##          1.062865          1.013733          1.244223
##          REVOKE_Yes         JOB_Home.Maker     JOB_Manager
##          1.005066          1.025942          1.048438
##          EDUCATION_z_High.School
##          1.207935

```



```

## NULL
##
## studentized Breusch-Pagan test
##
## data: step3
## BP = 28.485, df = 7, p-value = 0.0001796
##
## Shapiro-Wilk normality test
##
## data: step3$residuals

```

```

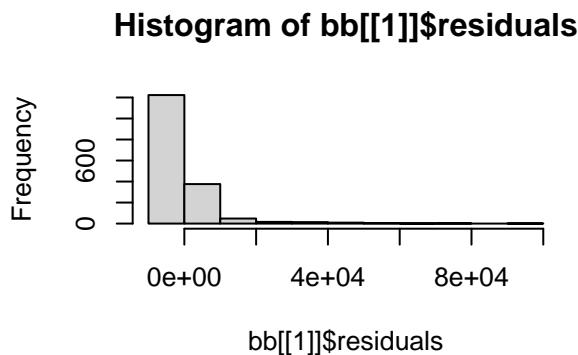
## W = 0.49421, p-value < 2.2e-16
##
## [1] "RMSE: 6792.36354536037"

hist(bb[[1]]$residuals)

#3. Log of y - still nonnormal (but closer to normal) with outliers, but not homoskedastic

dfc72 <- dfc7
dfc72$TARGET_AMT <- log(dfc72$TARGET_AMT)
cc<- EHModel_Regression_StandardLM(dfc72, "TARGET_AMT")

```



```

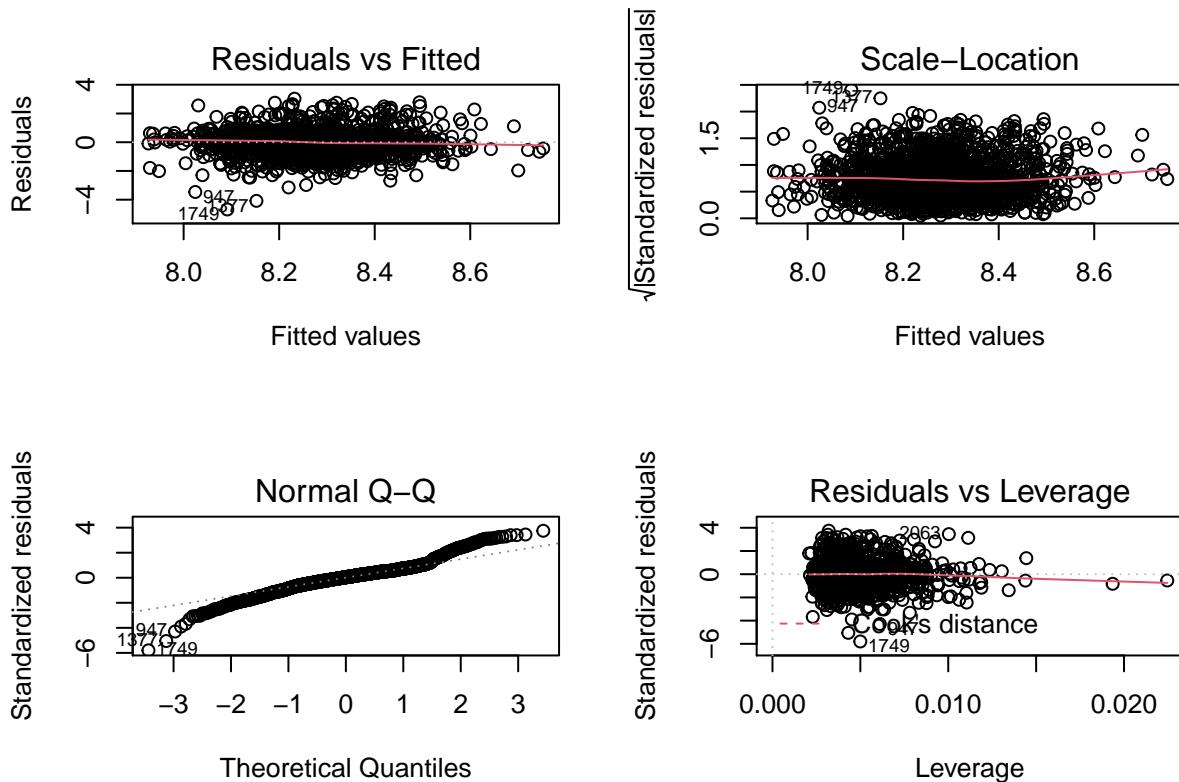
##
## Call:
## lm(formula = TARGET_AMT ~ BLUEBOOK + CLM_FREQ + MVR_PTS + MSTATUS_Yes +
##      SEX_z_F + CAR_TYPE_z_SUV + EDUCATION_Bachelors, data = train_reg)
##
## Residuals:
##      Min      1Q      Median      3Q      Max 
## -4.6811 -0.3953  0.0346  0.4100  3.0312 
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 8.191e+00  5.838e-02 140.314 < 2e-16 ***
## BLUEBOOK    1.053e-05  2.414e-06   4.364 1.35e-05 ***

```

```

## CLM_FREQ      -3.101e-02  1.653e-02 -1.876   0.0609 .
## MVR PTS       1.765e-02  7.878e-03  2.241   0.0252 *
## MSTATUS_Yes   -8.383e-02  3.946e-02 -2.125   0.0338 *
## SEX_z_F        -9.428e-02  4.783e-02 -1.971   0.0489 *
## CAR_TYPE_z_SUV 1.059e-01  5.218e-02  2.029   0.0426 *
## EDUCATION_Bachelors -7.300e-02  4.583e-02 -1.593   0.1114
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8098 on 1692 degrees of freedom
## Multiple R-squared:  0.02018, Adjusted R-squared:  0.01612
## F-statistic: 4.978 on 7 and 1692 DF, p-value: 1.363e-05
##
## [1] "VIF Analysis"
##          BLUEBOOK      CLM_FREQ      MVR PTS      MSTATUS_Yes
## 1.062649      1.099274      1.098026      1.008925
##          SEX_z_F      CAR_TYPE_z_SUV EDUCATION_Bachelors
## 1.465330      1.532824      1.009873

```



```

## NULL
##
## studentized Breusch-Pagan test
##
## data: step3
## BP = 6.7714, df = 7, p-value = 0.4531
## 
```

```

##  

## Shapiro-Wilk normality test  

##  

## data: step3$residuals  

## W = 0.96066, p-value < 2.2e-16  

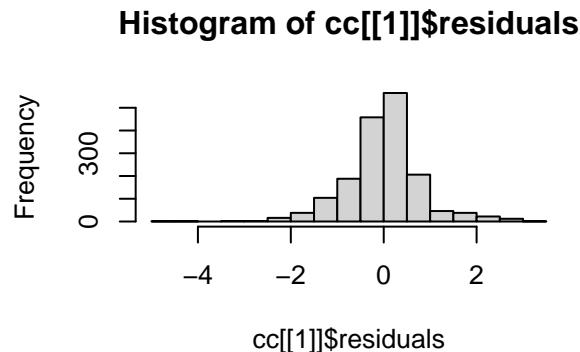
##  

## [1] "RMSE: 0.79353321069243"  

hist(cc[[1]]$residuals)

```



```

# Add log terms - residuals closer to normal but not (not skewed but heavy tailed), and outliers remain

dfc73 <- dfc72 %>%
  mutate(ageSquared = AGE^2, yojSquared = YOJ^2, income_log = log(INCOME+1), homeval_log = log(HOME_VAL))

dfc73 <- na.omit(dfc73)
zz <- EHModel_Regression_StandardLM(dfc73, "TARGET_AMT", splitRatio = 1)

##  

## Call:  

## lm(formula = TARGET_AMT ~ KIDSDRV + HOMEKIDS + YOJ + BLUEBOOK +  

##     OLDCLAIM + CLM_FREQ + CAR_AGE + MSTATUS_Yes + CAR_TYPE_Panel.Truck +  

##     REVOKED_Yes + EDUCATION_.High.School + EDUCATION_Bachelors +  

##     EDUCATION_z_High.School + yojSquared + bluebook_log + carage_log +  

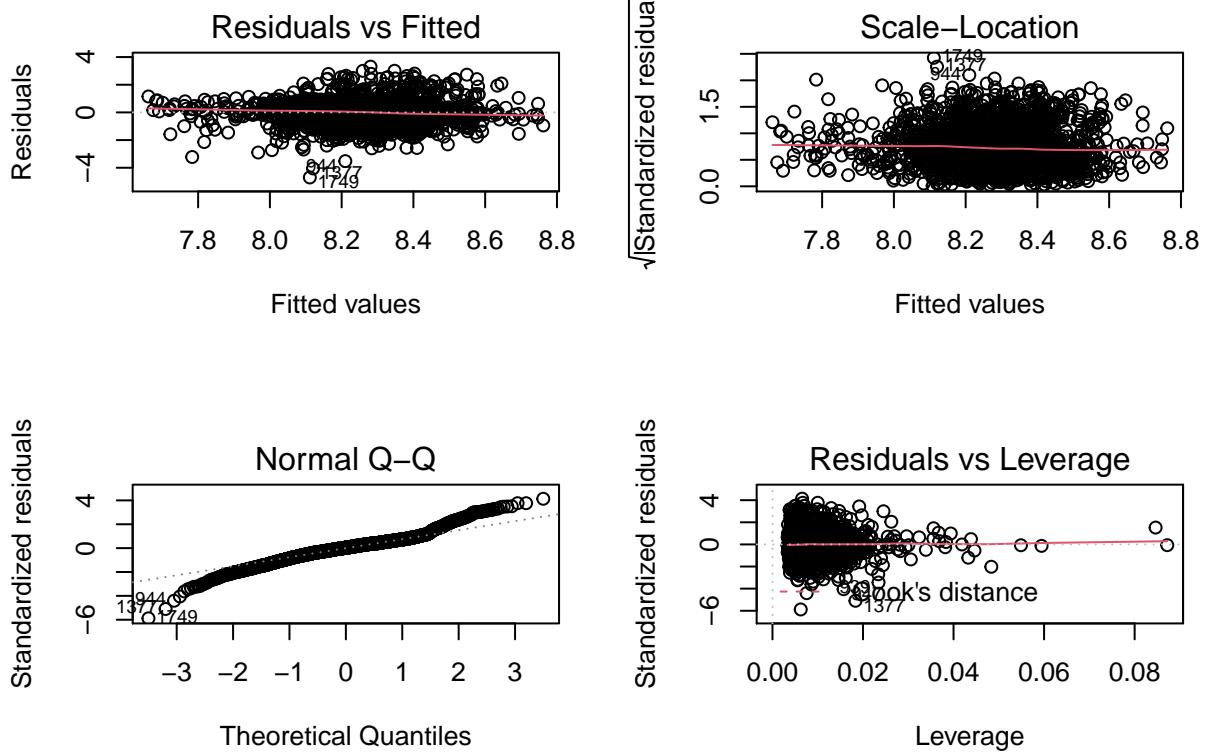
##     mvr_pts_log + inter, data = df)

```

```

##
## Residuals:
##      Min     1Q Median     3Q    Max
## -4.7009 -0.4100  0.0267  0.4024  3.3055
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)                5.769e+00  5.735e-01 10.060 < 2e-16 ***
## KIDSDRV                  -4.150e-01  1.729e-01 -2.400  0.01648 *
## HOMEKIDS                  2.724e-02  1.743e-02  1.563  0.11810
## YOJ                      1.952e-02  1.285e-02  1.519  0.12889
## BLUEBOOK                 -1.319e-05 6.003e-06 -2.198  0.02807 *
## OLDCLAIM                  4.737e-06  2.346e-06  2.019  0.04363 *
## CLM_FREQ                  -3.870e-02  1.630e-02 -2.374  0.01769 *
## CAR_AGE                   -2.335e-02  1.252e-02 -1.865  0.06232 .
## MSTATUS_Yes                -6.926e-02  3.629e-02 -1.908  0.05647 .
## CAR_TYPE_Panel.Truck       1.476e-01  7.876e-02  1.875  0.06099 .
## REVOKED_Yes                -9.094e-02  5.343e-02 -1.702  0.08887 .
## EDUCATION_High.School     -1.181e-01  7.951e-02 -1.485  0.13759
## EDUCATION_Bachelors        -1.659e-01  6.381e-02 -2.600  0.00939 **
## EDUCATION_z_High.School   -1.167e-01  7.033e-02 -1.659  0.09726 .
## yojSquared                 -1.345e-03  8.162e-04 -1.648  0.09947 .
## bluebook_log                2.854e-01  6.897e-02  4.137 3.65e-05 ***
## carage_log                  1.347e-01  7.436e-02  1.812  0.07014 .
## mvr_pts_log                 6.014e-02  2.317e-02  2.595  0.00952 **
## inter                       8.792e-03  3.906e-03  2.251  0.02450 *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8019 on 2133 degrees of freedom
## Multiple R-squared:  0.03412,   Adjusted R-squared:  0.02597
## F-statistic: 4.186 on 18 and 2133 DF,  p-value: 8.283e-09
##
## [1] "VIF Analysis"
##          KIDSDRV           HOMEKIDS           YOJ
##          39.340816          1.451898         11.265968
##          BLUEBOOK           OLDCLAIM            CLM_FREQ
##          8.308279          1.862418         1.385058
##          CAR_AGE             MSTATUS_Yes        CAR_TYPE_Panel.Truck
##          16.039445          1.101462         1.575092
##          REVOKED_Yes        EDUCATION_High.School EDUCATION_Bachelors
##          1.559117          3.107997         2.504146
##          EDUCATION_z_High.School yojSquared        bluebook_log
##          3.852481          11.719222        6.967091
##          carage_log          mvr_pts_log          inter
##          12.740030          1.108738         38.845777

```



```

## NULL
##
## studentized Breusch-Pagan test
##
## data: step3
## BP = 21.521, df = 18, p-value = 0.2539
##
##
## Shapiro-Wilk normality test
##
## data: step3$residuals
## W = 0.96305, p-value < 2.2e-16

print(hist(dfc73$TARGET_AMT))

## $breaks
## [1] 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0
## [16] 10.5 11.0 11.5 12.0
##
## $counts
## [1] 1 0 1 2 3 10 24 81 174 366 680 582 97 56 39 28 7 1
##
## $density
## [1] 0.000929368 0.000000000 0.000929368 0.001858736 0.002788104 0.009293680
## [7] 0.022304833 0.075278810 0.161710037 0.340148699 0.631970260 0.540892193

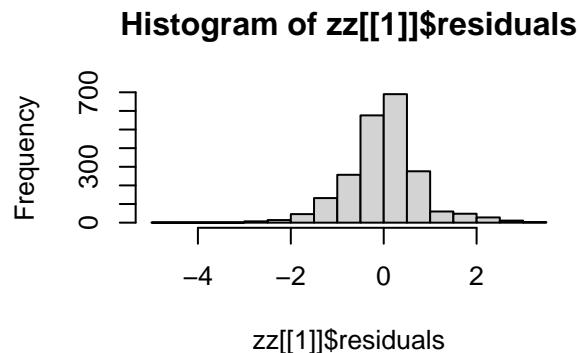
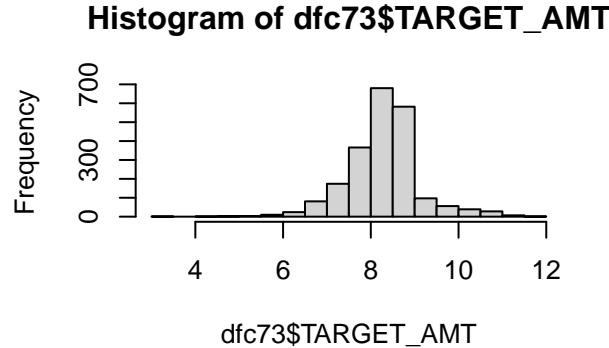
```

```

## [13] 0.090148699 0.052044610 0.036245353 0.026022305 0.006505576 0.000929368
##
## $mids
## [1] 3.25 3.75 4.25 4.75 5.25 5.75 6.25 6.75 7.25 7.75 8.25 8.75
## [13] 9.25 9.75 10.25 10.75 11.25 11.75
##
## $xname
## [1] "dfc73$TARGET_AMT"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"

hist(zz[[1]]$residuals)

```



```
qwe <- EHModel_Regression_StandardLM(dfc7, "TARGET_AMT")
```

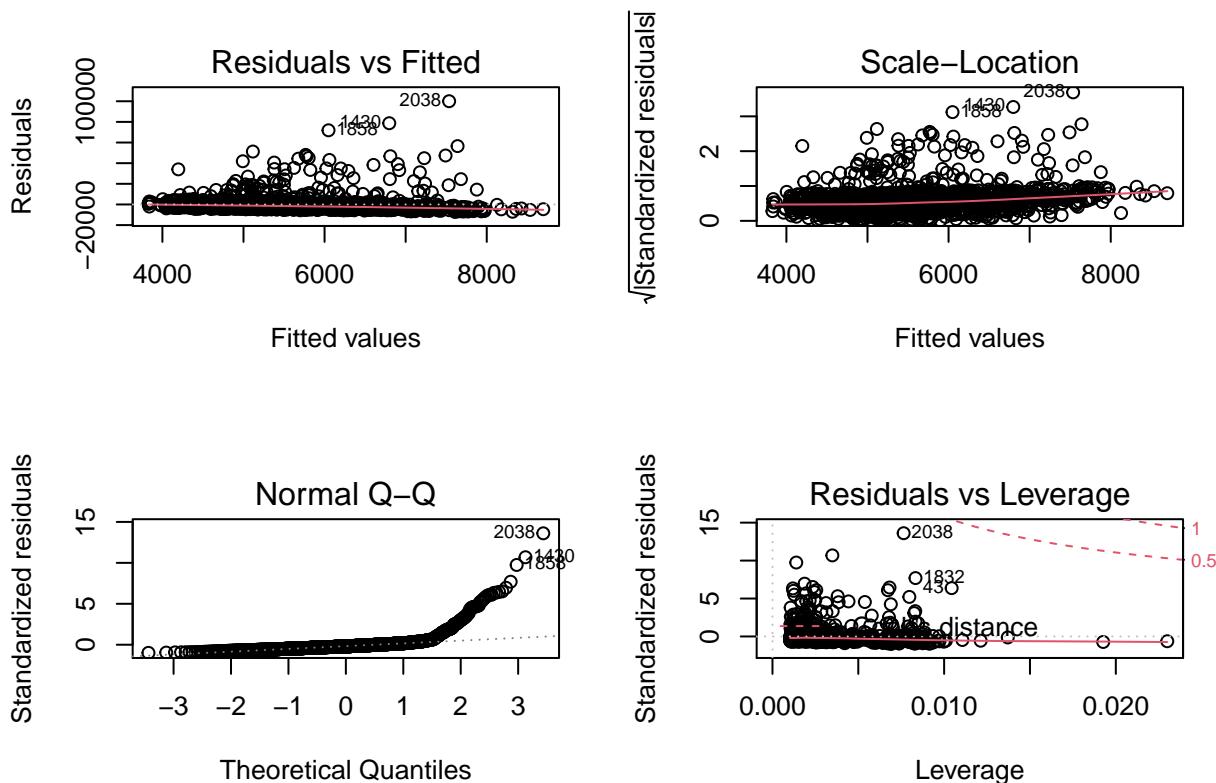
```

##
## Call:
## lm(formula = TARGET_AMT ~ BLUEBOOK + CAR_AGE + CAR_TYPE_Van +
##     EDUCATION_z_High.School, data = train_reg)
##
## Residuals:
```

```

##      Min     1Q Median     3Q    Max
## -7294 -2935 -1467     414 100050
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)           5207.80821  482.70226 10.789 < 2e-16 ***
## BLUEBOOK              0.07293   0.02292  3.182 0.00149 **
## CAR_AGE                -74.99662  35.61959 -2.105 0.03540 *
## CAR_TYPE_Van          1232.48918  644.10232  1.913 0.05585 .
## EDUCATION_z_High.School -728.80593  404.67226 -1.801 0.07188 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7380 on 1697 degrees of freedom
## Multiple R-squared:  0.01332, Adjusted R-squared:  0.01099
## F-statistic: 5.727 on 4 and 1697 DF, p-value: 0.0001407
##
## [1] "VIF Analysis"
##             BLUEBOOK            CAR_AGE            CAR_TYPE_Van
##             1.099366           1.216169           1.066835
## EDUCATION_z_High.School
##             1.200625

```



```

## NULL
##
## studentized Breusch-Pagan test

```

```

##
## data: step3
## BP = 25.798, df = 4, p-value = 3.475e-05
##
##
## Shapiro-Wilk normality test
##
## data: step3$residuals
## W = 0.4803, p-value < 2.2e-16
##
## [1] "RMSE: 8781.09597087588"

qwr <- EHModel_Regression_Robust(dfc7, "TARGET_AMT")

##
## Call: rlm(formula = fm, data = train_reg)
## Residuals:
##      Min        1Q     Median        3Q       Max
## -4584.4   -1553.2    -189.1   1578.1 103113.2
##
## Coefficients:
##                               Value     Std. Error t value
## (Intercept)             4847.2876   731.1867  6.6293
## KIDSDRV                  -97.6156   115.1739 -0.8475
## AGE                      8.0529    8.0020  1.0064
## HOMEKIDS                 113.4680   75.5610  1.5017
## YOJ                      7.0842   17.6561  0.4012
## INCOME                  -0.0035   0.0053 -0.6502
## HOME_VAL                 -0.0001   0.0024 -0.0246
## TRAVTIME                  0.3654   4.0482  0.0903
## BLUEBOOK                  0.0193   0.0110  1.7589
## TIF                      -0.2262   15.7649 -0.0144
## OLDCLAIM                  0.0059   0.0081  0.7356
## CLM_FREQ                  -69.8885   57.9574 -1.2059
## MVR_PTS                   60.4024   24.8106  2.4345
## CAR_AGE                  -9.4265   16.1003 -0.5855
## PARENT1_Yes                -25.7934   214.6898 -0.1201
## MSTATUS_Yes                 -177.5506   157.9089 -1.1244
## SEX_z_F                   -113.9567   239.2924 -0.4762
## CAR_TYPE_Panel.Truck          -8.3565   349.8327 -0.0239
## CAR_TYPE_Pickup              -8.3508   218.5180 -0.0382
## CAR_TYPE_Sports.Car            232.9285   272.4318  0.8550
## CAR_TYPE_Van                  30.5955   281.4458  0.1087
## CAR_TYPE_z_SUV                 158.4445   242.1051  0.6544
## RED_CAR_no                  -86.1077   182.5371 -0.4717
## REVOKED_Yes                  -67.4720   185.9494 -0.3629
## JOB_                            -462.6639   401.8763 -1.1513
## JOB_Clerical                  -78.2133   260.5018 -0.3002
## JOB_Doctor                     -673.9248   647.9491 -1.0401
## JOB_Home.Maker                 -313.3076   338.1100 -0.9266
## JOB_Lawyer                     -621.1784   400.7262 -1.5501
## JOB_Manager                     -143.0395   322.9876 -0.4429
## JOB_Student                     -130.4119   316.5952 -0.4119
## JOB_z_Blue.Collar                 -121.4228   247.8333 -0.4899

```

```

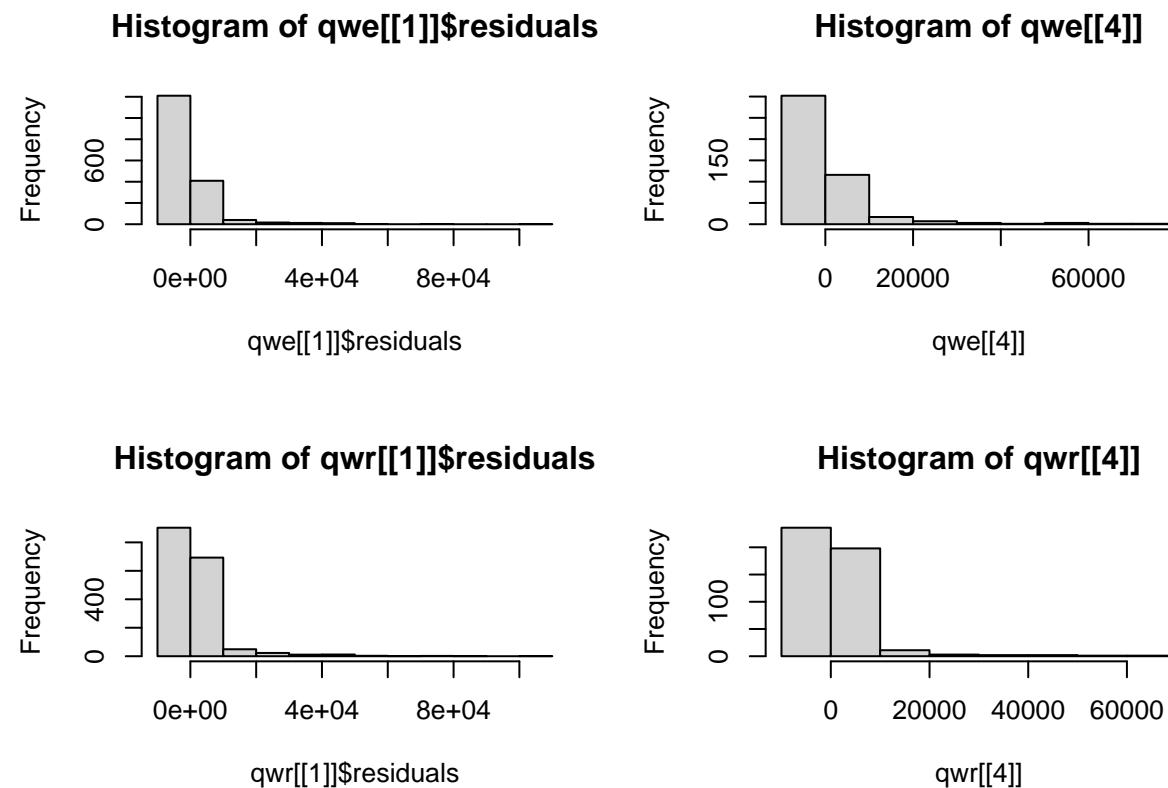
## CAR_USE_Commercial           136.5686   191.7155   0.7124
## EDUCATION_High.School       -1001.3477   491.0877  -2.0390
## EDUCATION_Bachelors          -1152.5604   425.8442  -2.7065
## EDUCATION_Masters             -380.6843   358.1775  -1.0628
## EDUCATION_z_High.School      -1075.2394   461.9700  -2.3275
## URBANICITY_z_Highly.Rural..Rural -245.0000   276.3329  -0.8866
##
## Residual standard error: 2325 on 1661 degrees of freedom
## [1] "RMSE: 6581.8714382515"

```

```

hist(qwe[[1]]$residuals)
hist(qwr[[1]]$residuals)
hist(qwe[[4]])
hist(qwr[[4]])

```



```
qwe[[2]]
```

```
## [1] 8781.096
```

```
qwr[[2]]
```

```
## [1] 6581.871
```

```

qwe[[3]]

## [1] 7380.27

qwr[[3]]

## [1] 2324.77

#aa1 <- EHModel_Regression_Standard_Iterations(aa[[1]]$model, "TARGET_AMT")
#aa2 <- EHModel_Regression_Robust_Iterations(aa[[1]]$model, "TARGET_AMT")

#aa3 <- EHModel_Regression_Standard_Iterations(cc[[1]]$model, "TARGET_AMT")
#aa4 <- EHModel_Regression_Robust_Iterations(cc[[1]]$model, "TARGET_AMT")

#xd5 <- EHModel_Regression_Standard_Iterations zz[[1]]$model, "TARGET_AMT")
#xd6 <- EHModel_Regression_Robust_Iterations zz[[1]]$model, "TARGET_AMT")

# above plus massive outlier elimination - no progress

#9.5 and 7.5 work

dfc74 <- dfc73 %>%
  dplyr::filter(TARGET_AMT<9 & TARGET_AMT>8)

#xb <- lm(TARGET_AMT~, dfc74)

uu <- EHModel_Regression_StandardLM(dfc74, "TARGET_AMT")

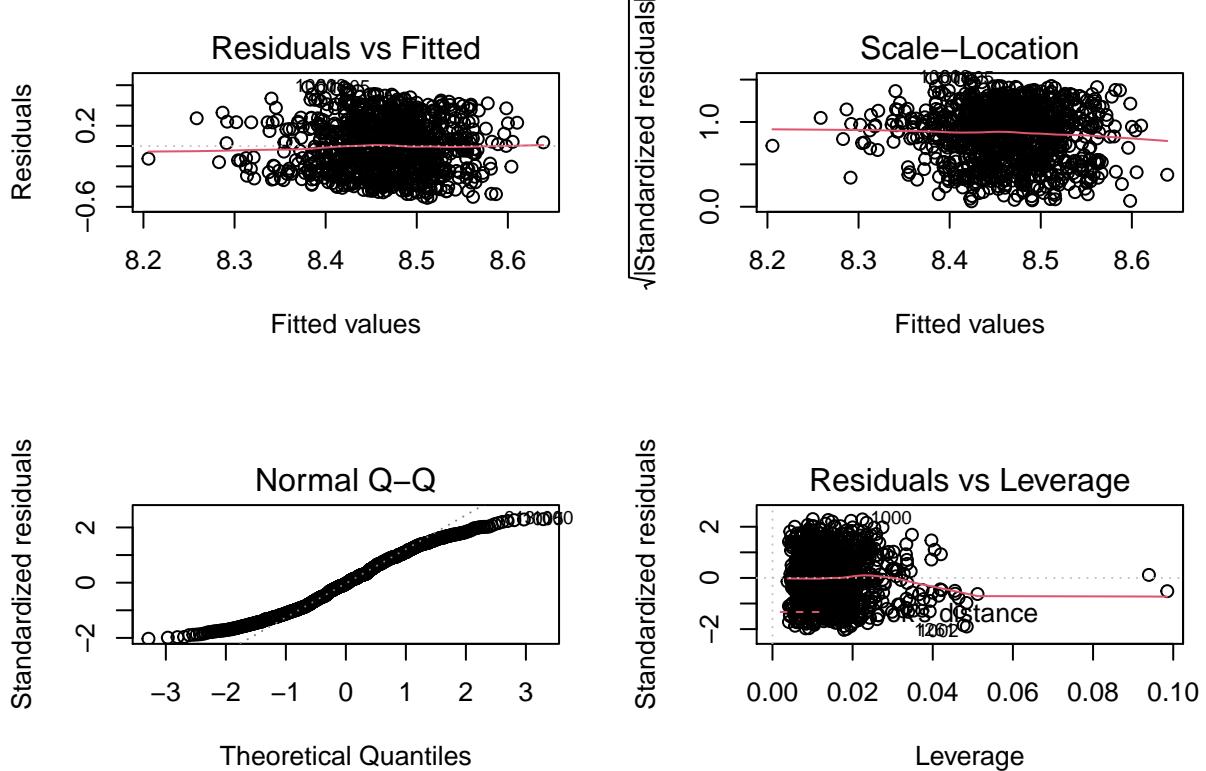
## Call:
## lm(formula = TARGET_AMT ~ AGE + HOMEKIDS + YOJ + INCOME + BLUEBOOK +
##     TIF + CLM_FREQ + PARENT1_Yes + RED_CAR_no + REVOKED_Yes +
##     JOB_Student + EDUCATION_Masters + yojSquared + bluebook_log,
##     data = train_reg)
##
## Residuals:
##      Min        1Q        Median        3Q       Max
## -0.51124 -0.21689 -0.00754  0.20390  0.58131
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 7.290e+00  2.854e-01  25.538 < 2e-16 ***
## AGE         1.605e-03  1.024e-03   1.567 0.117415
## HOMEKIDS    2.647e-02  8.994e-03   2.943 0.003325 **
## YOJ          1.036e-02  6.597e-03   1.571 0.116506
## INCOME      3.401e-07  2.362e-07   1.440 0.150288
## BLUEBOOK   -9.603e-06  2.698e-06  -3.560 0.000389 ***
## TIF          5.442e-03  2.033e-03   2.677 0.007549 **
## CLM_FREQ   -1.363e-02  6.666e-03  -2.045 0.041138 *

```

```

## PARENT1_Yes      -6.066e-02  2.259e-02 -2.685 0.007378 **
## RED_CAR_no       4.030e-02  1.803e-02  2.235 0.025638 *
## REVOKED_Yes     3.024e-02  1.993e-02  1.517 0.129585
## JOB_Student     5.184e-02  2.871e-02  1.805 0.071304 .
## EDUCATION_Masters 3.616e-02  2.358e-02  1.533 0.125585
## yojSquared      -7.848e-04  4.063e-04 -1.932 0.053690 .
## bluebook_log     1.223e-01  3.403e-02  3.595 0.000341 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2541 on 982 degrees of freedom
## Multiple R-squared:  0.04499,   Adjusted R-squared:  0.03137
## F-statistic: 3.304 on 14 and 982 DF,  p-value: 3.414e-05
##
## [1] "VIF Analysis"
##          AGE        HOMEKIDS         YOJ        INCOME
## 1.560560 1.839752 13.153906 1.578955
##        BLUEBOOK         TIF        CLM_FREQ PARENT1_Yes
## 7.665672 1.012217 1.007440 1.350596
##        RED_CAR_no    REVOKED_Yes  JOB_Student EDUCATION_Masters
## 1.041572 1.016232 1.318204 1.103521
##        yojSquared    bluebook_log
## 13.397970 7.322521

```



```

## NULL
## 
```

```

## studentized Breusch-Pagan test
##
## data: step3
## BP = 8.9817, df = 14, p-value = 0.8322
##
##
## Shapiro-Wilk normality test
##
## data: step3$residuals
## W = 0.97796, p-value = 3.743e-11
##
## [1] "RMSE: 0.253613552055012"

print(hist(dfc74$TARGET_AMT))

## $breaks
## [1] 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0
##
## $counts
## [1] 105 136 144 148 147 179 139 112 90 62
##
## $density
## [1] 0.8320127 1.0776545 1.1410460 1.1727417 1.1648177 1.4183835 1.1014263
## [8] 0.8874802 0.7131537 0.4912837
##
## $mids
## [1] 8.05 8.15 8.25 8.35 8.45 8.55 8.65 8.75 8.85 8.95
##
## $xname
## [1] "dfc74$TARGET_AMT"
##
## $equidist
## [1] TRUE
##
## attr(),"class")
## [1] "histogram"

print(hist(uu[[1]]$residuals))

## $breaks
## [1] -0.6 -0.5 -0.4 -0.3 -0.2 -0.1  0.0  0.1  0.2  0.3  0.4  0.5  0.6
##
## $counts
## [1] 2 40 93 129 117 130 133 100 109 83 47 14
##
## $density
## [1] 0.02006018 0.40120361 0.93279840 1.29388164 1.17352056 1.30391174
## [7] 1.33400201 1.00300903 1.09327984 0.83249749 0.47141424 0.14042126
##
## $mids
## [1] -0.55 -0.45 -0.35 -0.25 -0.15 -0.05  0.05  0.15  0.25  0.35  0.45  0.55
##
## $xname

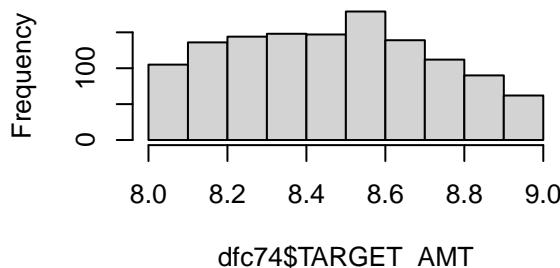
```

```

## [1] "uu[[1]]$residuals"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"

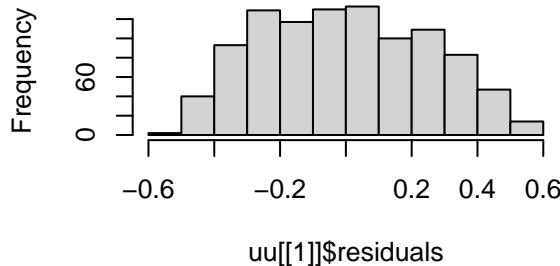
```

Histogram of dfc74\$TARGET_AMT



dfc74\$TARGET_AMT

Histogram of uu[[1]]\$residuals



uu[[1]]\$residuals

#second try

```
asd <- EHModel_Regression_StandardLM(dfc7, "TARGET_AMT", splitRatio = 1, xseed=101)
```

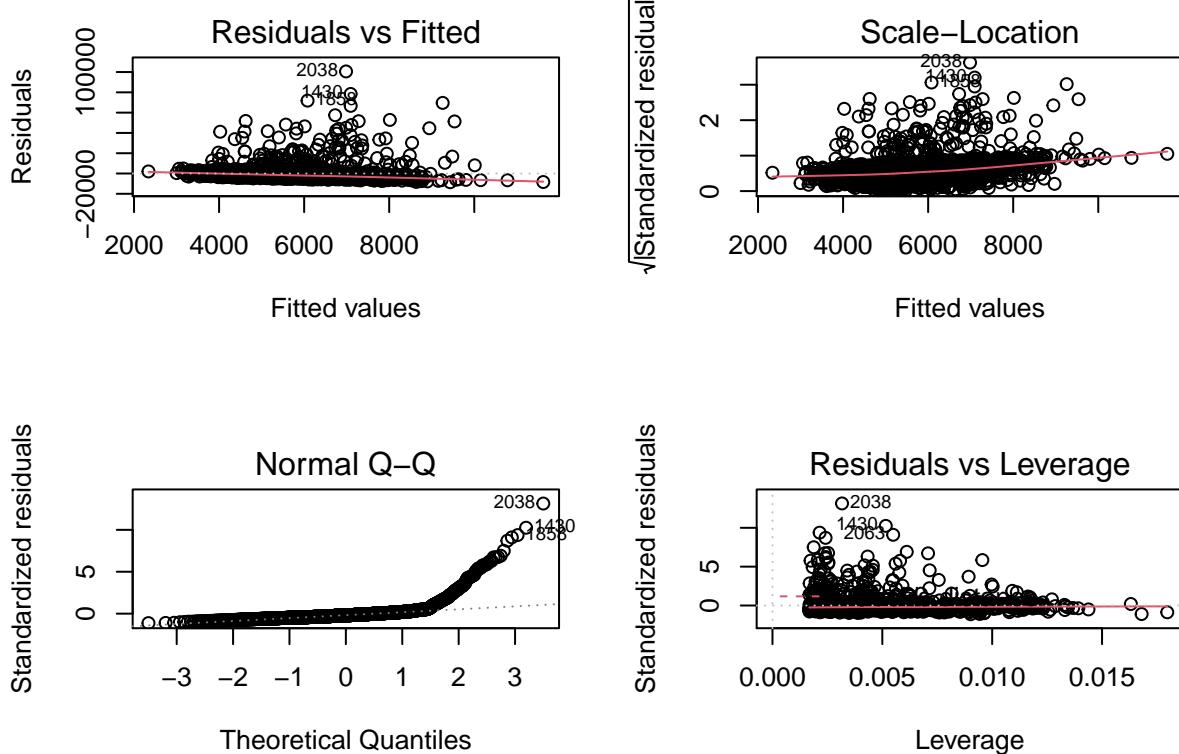
```

##
## Call:
## lm(formula = TARGET_AMT ~ BLUEBOOK + MVR_PTS + MSTATUS_Yes +
##      SEX_z_F + CAR_TYPE_Sports.Car + CAR_TYPE_z_SUV + REVOKED_Yes +
##      JOB_Manager, data = df)
##
## Residuals:
##      Min    1Q Median    3Q   Max 
## -8595 -3185 -1561    428 100601 
##
## Coefficients:
## (Intercept)        Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 4.466e+03 4.870e+02  9.170 < 2e-16 ***
```

```

## BLUEBOOK      1.225e-01  2.165e-02   5.656 1.76e-08 ***
## MVR_PTS       1.221e+02  6.430e+01   1.899  0.0577 .
## MSTATUS_Yes    -5.534e+02  3.317e+02  -1.669  0.0954 .
## SEX_z_F        -1.307e+03  5.247e+02  -2.491  0.0128 *
## CAR_TYPE_Sports.Car 1.017e+03  6.634e+02   1.533  0.1253
## CAR_TYPE_z_SUV  8.247e+02  5.709e+02   1.445  0.1487
## REVOKED_Yes     -7.329e+02  4.097e+02  -1.789  0.0738 .
## JOB_Manager     -1.115e+03  6.822e+02  -1.635  0.1023
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7671 on 2144 degrees of freedom
## Multiple R-squared:  0.02232, Adjusted R-squared:  0.01867
## F-statistic: 6.118 on 8 and 2144 DF, p-value: 8.076e-08
##
## [1] "VIF Analysis"
##          BLUEBOOK        MVR_PTS        MSTATUS_Yes      SEX_z_F
##          1.181381        1.005905        1.005772        2.490036
##          CAR_TYPE_Sports.Car  CAR_TYPE_z_SUV  REVOKED_Yes      JOB_Manager
##          1.953002        2.572602        1.003785        1.014804

```



```

## NULL
##
## studentized Breusch-Pagan test
##
## data: step3

```

```

## BP = 32.797, df = 8, p-value = 6.7e-05
##
##
## Shapiro-Wilk normality test
##
## data: step3$residuals
## W = 0.49541, p-value < 2.2e-16

xresidual <- asd[[1]]$residuals

dfMissing2 <- dfMissing %>%
  dplyr::select(-TARGET_AMT)

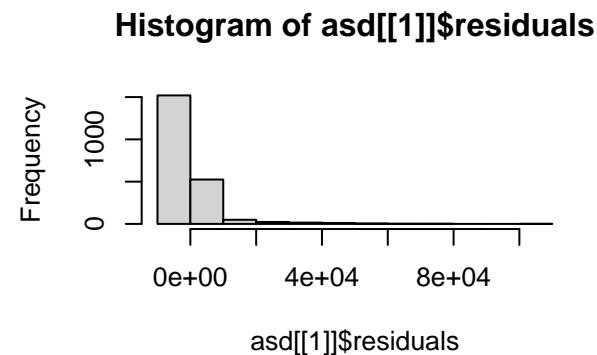
dfNew <- cbind(dfc7, xresidual)
dfMissing2 <- cbind(dfMissing2, xresidual)

hist(asd[[1]]$residuals)

dfNew2 <- dfNew %>%
  dplyr::filter(abs(xresidual)<4000) %>%
  dplyr::select(-xresidual)

asd2 <- EHModel_Regression_StandardLM(dfNew2, "TARGET_AMT", xseed = 101)

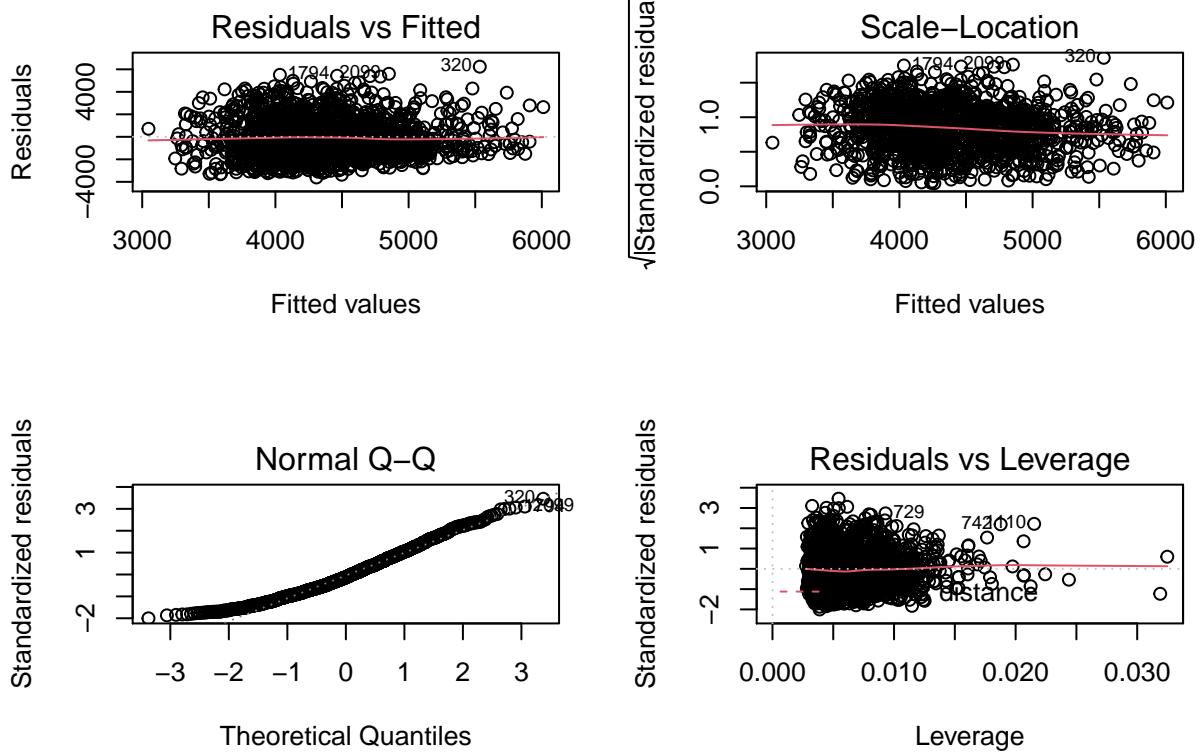
```



```

## 
## Call:
## lm(formula = TARGET_AMT ~ HOME_VAL + BLUEBOOK + MVR PTS + MSTATUS_Yes +
##      SEX_z_F + CAR_TYPE_Sports.Car + CAR_TYPE_z_SUV + EDUCATION_Bachelors,
##      data = train_reg)
##
## Residuals:
##    Min      1Q  Median      3Q     Max
## -3610.1 -1351.1  -224.8 1176.0  6235.6
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)            3.855e+03  1.656e+02 23.272 < 2e-16 ***
## HOME_VAL              -8.823e-04  6.013e-04 -1.467  0.14256
## BLUEBOOK              6.082e-02  7.613e-03  7.989 2.91e-15 ***
## MVR PTS                9.387e+01  1.978e+01  4.747 2.29e-06 ***
## MSTATUS_Yes             -2.767e+02  9.913e+01 -2.792  0.00532 **
## SEX_z_F                -5.131e+02  1.606e+02 -3.195  0.00143 **
## CAR_TYPE_Sports.Car    3.619e+02  2.017e+02  1.794  0.07303 .
## CAR_TYPE_z_SUV          2.897e+02  1.714e+02  1.690  0.09126 .
## EDUCATION_Bachelors   -1.777e+02  1.176e+02 -1.511  0.13106
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1807 on 1338 degrees of freedom
## Multiple R-squared:  0.07198,   Adjusted R-squared:  0.06643
## F-statistic: 12.97 on 8 and 1338 DF,  p-value: < 2.2e-16
##
## [1] "VIF Analysis"
##           HOME_VAL        BLUEBOOK        MVR PTS        MSTATUS_Yes
##           1.188526        1.362949        1.007074        1.013181
##           SEX_z_F  CAR_TYPE_Sports.Car  CAR_TYPE_z_SUV EDUCATION_Bachelors
##           2.610958        1.979564        2.702266        1.012946

```



```

## NULL
##
## studentized Breusch-Pagan test
##
## data: step3
## BP = 28.314, df = 8, p-value = 0.0004181
##
## Shapiro-Wilk normality test
##
## data: step3$residuals
## W = 0.97677, p-value = 6.429e-14
##
## [1] "RMSE: 1762.82002969057"

hist(asd2[[1]]$residuals)

#outliers:

dfNew_Out <- dfNew %>%
  dplyr::filter(abs(xresidual)>4000)

hist(dfNew_Out$xresidual)

```

```

#EHSummarize_StandardPlots(dfNew_Out, "TARGET_AMT")

dfNew_Int <- dfNew %>%
  dplyr::mutate(resid_flag = ifelse(abs(xresidual)>4000,1,0)) %>%
  dplyr::select(-xresidual)

dfMissing3 <- dfMissing2 %>%
  dplyr::mutate(resid_flag = ifelse(abs(xresidual)>4000,1,0)) %>%
  dplyr::select(-xresidual)

#wq <- EHExplore_Interactions_Scatterplots(dfNew_Int, "TARGET_AMT", "resid_flag")
#grid.arrange(grobs = wq[c(1:12)], ncol=3, nrow=4)
#grid.arrange(grobs = wq[c(13:24)], ncol=3, nrow=4)
#grid.arrange(grobs = wq[c(25:36)], ncol=3, nrow=4)
#grid.arrange(grobs = wq[c(37:39)], ncol=3, nrow=1)

summary(dfNew2)

```

| | TARGET_AMT | KIDSDRV | AGE | HOMEKIDS |
|----|-----------------|----------------------|-----------------|---------------------|
| ## | Min. : 223.6 | Min. : 0.0000 | Min. :16.00 | Min. :0.000 |
| ## | 1st Qu.: 3000.7 | 1st Qu.: 0.0000 | 1st Qu.:37.00 | 1st Qu.:0.000 |
| ## | Median : 4286.0 | Median : 0.0000 | Median :43.00 | Median :0.000 |
| ## | Mean : 4380.3 | Mean : 0.2516 | Mean :43.03 | Mean : 0.956 |
| ## | 3rd Qu.: 5542.0 | 3rd Qu.: 0.0000 | 3rd Qu.:49.00 | 3rd Qu.:2.000 |
| ## | Max. :11769.9 | Max. :4.0000 | Max. :73.00 | Max. :5.000 |
| ## | YOJ | INCOME | HOME_VAL | TRAVTIME |
| ## | Min. : 0.00 | Min. : 5 | Min. : 50343 | Min. : 5.00 |
| ## | 1st Qu.: 8.00 | 1st Qu.: 23048 | 1st Qu.:121354 | 1st Qu.:24.00 |
| ## | Median :11.00 | Median : 42018 | Median :171659 | Median :34.00 |
| ## | Mean : 9.88 | Mean : 50035 | Mean :183447 | Mean :34.67 |
| ## | 3rd Qu.:13.00 | 3rd Qu.: 66335 | 3rd Qu.:226146 | 3rd Qu.:45.00 |
| ## | Max. :19.00 | Max. :290846 | Max. :682634 | Max. :97.00 |
| ## | BLUEBOOK | TIF | OLDCLAIM | CLM_FREQ |
| ## | Min. : 1500 | Min. : 1.000 | Min. : 0 | Min. :0.000 |
| ## | 1st Qu.: 7100 | 1st Qu.: 1.000 | 1st Qu.: 0 | 1st Qu.:0.000 |
| ## | Median :11700 | Median : 4.000 | Median : 2479 | Median :1.000 |
| ## | Mean :13056 | Mean : 4.789 | Mean : 6171 | Mean : 1.205 |
| ## | 3rd Qu.:17630 | 3rd Qu.: 7.000 | 3rd Qu.: 6984 | 3rd Qu.:2.000 |
| ## | Max. :48380 | Max. :21.000 | Max. :52445 | Max. :5.000 |
| ## | MVR PTS | CAR AGE | PARENT1 Yes | MSTATUS Yes |
| ## | Min. : 0.000 | Min. :-3.000 | Min. :0.0000 | Min. :0.0000 |
| ## | 1st Qu.: 0.000 | 1st Qu.: 1.000 | 1st Qu.:0.0000 | 1st Qu.:0.0000 |
| ## | Median : 2.000 | Median : 7.000 | Median :0.0000 | Median :1.0000 |
| ## | Mean : 2.354 | Mean : 7.272 | Mean :0.2158 | Mean : 0.5038 |
| ## | 3rd Qu.: 4.000 | 3rd Qu.:11.000 | 3rd Qu.:0.0000 | 3rd Qu.:1.0000 |
| ## | Max. :13.000 | Max. :25.000 | Max. :1.0000 | Max. :1.0000 |
| ## | SEX z F | CAR_TYPE_Panel.Truck | CAR_TYPE_Pickup | CAR_TYPE_Sports.Car |
| ## | Min. :0.0000 | Min. :0.00000 | Min. :0.0000 | Min. :0.0000 |
| ## | 1st Qu.:0.0000 | 1st Qu.:0.00000 | 1st Qu.:0.0000 | 1st Qu.:0.0000 |
| ## | Median :1.0000 | Median :0.00000 | Median :0.0000 | Median :0.0000 |
| ## | Mean : 0.5754 | Mean : 0.05806 | Mean :0.2182 | Mean : 0.1419 |
| ## | 3rd Qu.:1.0000 | 3rd Qu.:0.00000 | 3rd Qu.:0.0000 | 3rd Qu.:0.0000 |
| ## | Max. :1.0000 | Max. :1.00000 | Max. :1.0000 | Max. :1.0000 |

```

##  CAR_TYPE_Van      CAR_TYPE_z_SUV      RED_CAR_no      REVOKED_Yes
##  Min.   :0.00000   Min.   :0.00000   Min.   :0.00000   Min.   :0.0000
##  1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.0000
##  Median :0.00000   Median :0.00000   Median :1.00000   Median :0.0000
##  Mean   :0.07918   Mean   :0.3378   Mean   :0.7273    Mean   :0.2194
##  3rd Qu.:0.00000   3rd Qu.:1.00000  3rd Qu.:1.00000  3rd Qu.:0.0000
##  Max.   :1.00000   Max.   :1.00000  Max.   :1.00000  Max.   :1.0000
##  JOB_          JOB_Clerical      JOB_Doctor      JOB_Home.Maker
##  Min.   :0.00000   Min.   :0.00000   Min.   :0.000000  Min.   :0.00000
##  1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.000000  1st Qu.:0.00000
##  Median :0.00000   Median :0.00000   Median :0.000000  Median :0.00000
##  Mean   :0.05161   Mean   :0.1713   Mean   :0.01525   Mean   :0.08856
##  3rd Qu.:0.00000   3rd Qu.:0.00000   3rd Qu.:0.000000  3rd Qu.:0.00000
##  Max.   :1.00000   Max.   :1.00000  Max.   :1.000000  Max.   :1.00000
##  JOB_Lawyer      JOB_Manager     JOB.Student    JOB_z_Blue.Collar
##  Min.   :0.00000   Min.   :0.00000   Min.   :0.000000  Min.   :0.00000
##  1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.000000  1st Qu.:0.00000
##  Median :0.00000   Median :0.00000   Median :0.000000  Median :0.00000
##  Mean   :0.06921   Mean   :0.06862   Mean   :0.1372    Mean   :0.2909
##  3rd Qu.:0.00000   3rd Qu.:0.00000   3rd Qu.:0.000000  3rd Qu.:1.00000
##  Max.   :1.00000   Max.   :1.00000  Max.   :1.000000  Max.   :1.00000
##  CAR_USE_Commercial EDUCATION_High.School EDUCATION_Bachelors
##  Min.   :0.00000   Min.   :0.00000   Min.   :0.00000
##  1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.00000
##  Median :0.00000   Median :0.00000   Median :0.00000
##  Mean   :0.4704    Mean   :0.1842    Mean   :0.2328
##  3rd Qu.:1.00000   3rd Qu.:0.00000   3rd Qu.:0.00000
##  Max.   :1.00000   Max.   :1.00000  Max.   :1.00000
##  EDUCATION_Masters EDUCATION_z_High.School URBANICITY_z_Highly.Rural..Rural
##  Min.   :0.00000   Min.   :0.00000   Min.   :0.000000
##  1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.000000
##  Median :0.00000   Median :0.00000   Median :0.000000
##  Mean   :0.1437    Mean   :0.383    Mean   :0.05572
##  3rd Qu.:0.00000   3rd Qu.:1.000    3rd Qu.:0.000000
##  Max.   :1.00000   Max.   :1.000    Max.   :1.000000

```

```
str(dfNew2)
```

```

## 'data.frame': 1705 obs. of 38 variables:
## $ TARGET_AMT           : num 2946 4021 2501 6077 2920 ...
## $ KIDSDRV              : int 0 1 0 0 0 0 0 0 1 ...
## $ AGE                  : int 34 37 34 53 45 28 43 32 40 45 ...
## $ HOMEKIDS             : int 1 2 0 0 0 1 0 1 0 1 ...
## $ YOJ                  : int 12 6 10 14 0 13 13 9 11 14 ...
## $ INCOME               : num 125301 107961 62978 77100 3068 ...
## $ HOME_VAL              : num 261777 333680 154297 239711 106859 ...
## $ TRAVTIME             : int 46 44 34 15 48 29 52 26 20 50 ...
## $ BLUEBOOK              : num 17430 16970 11200 18300 6000 ...
## $ TIF                  : int 1 1 1 1 1 6 1 1 4 6 ...
## $ OLDCLAIM              : num 0 2374 0 0 0 ...
## $ CLM_FREQ              : int 0 1 0 0 0 2 0 0 1 2 ...
## $ MVR_PTS               : int 0 10 0 0 3 0 3 0 13 0 ...
## $ CAR_AGE               : int 7 7 1 11 5 1 1 1 6 13 ...
## $ PARENT1_Yes           : int 1 0 0 0 0 0 0 0 0 0 ...

```

```

## $ MSTATUS_Yes : int 0 1 0 0 1 1 1 1 0 1 ...
## $ SEX_z_F : int 1 0 1 1 1 1 0 1 0 1 ...
## $ CAR_TYPE_Panel.Truck : int 0 0 0 0 0 0 1 0 0 0 ...
## $ CAR_TYPE_Pickup : int 0 0 0 0 0 0 0 0 1 0 ...
## $ CAR_TYPE_Sports.Car : int 1 0 0 1 0 0 0 0 0 0 ...
## $ CAR_TYPE_Van : int 0 1 0 0 0 0 0 0 0 1 ...
## $ CAR_TYPE_z_SUV : int 0 0 1 0 1 1 0 1 0 0 ...
## $ RED_CAR_no : int 1 0 1 1 1 1 0 1 0 1 ...
## $ REVOKED_Yes : int 0 1 0 0 0 0 0 0 1 1 ...
## $ JOB_ : int 0 0 0 0 0 0 0 0 0 0 ...
## $ JOB_Clerical : int 0 0 1 0 0 0 0 1 0 0 ...
## $ JOB_Doctor : int 0 0 0 0 0 0 0 0 0 0 ...
## $ JOB_Home.Maker : int 0 0 0 0 1 0 0 0 0 0 ...
## $ JOB_Lawyer : int 0 0 0 1 0 0 0 0 0 1 ...
## $ JOB_Manager : int 0 0 0 0 0 0 0 0 0 0 ...
## $ JOB_Student : int 0 0 0 0 0 0 0 0 0 0 ...
## $ JOB_z_Blue.Collar : int 1 1 0 0 0 1 1 0 1 0 ...
## $ CAR_USE_Commercial : int 1 1 0 0 0 1 1 0 1 0 ...
## $ EDUCATION_.High.School : int 0 0 0 0 1 0 1 0 1 0 ...
## $ EDUCATION_Bachelors : int 1 1 1 0 0 0 0 0 0 0 ...
## $ EDUCATION_Masters : int 0 0 0 1 0 0 0 0 0 1 ...
## $ EDUCATION_z_High.School : int 0 0 0 0 0 1 0 1 0 0 ...
## $ URBANICITY_z_Highly.Rural..Rural: int 0 0 0 0 0 0 0 0 0 0 ...

we <- EExplore_OneContinuousAndOneCategoricalColumn_Boxplots(dfNew_Int, "resid_flag")
grid.arrange(grobs = we[c(1,6,7,9,22,35)], ncol=3, nrow=2)

EExplore_TwoCategoricalColumns_Barcharts(dfMissing3, "resid_flag")

## [[1]]

## 
## [[2]]

## 
## [[3]]

## 
## [[4]]

## 
## [[5]]
```

mean(dfNew2\$INCOME)

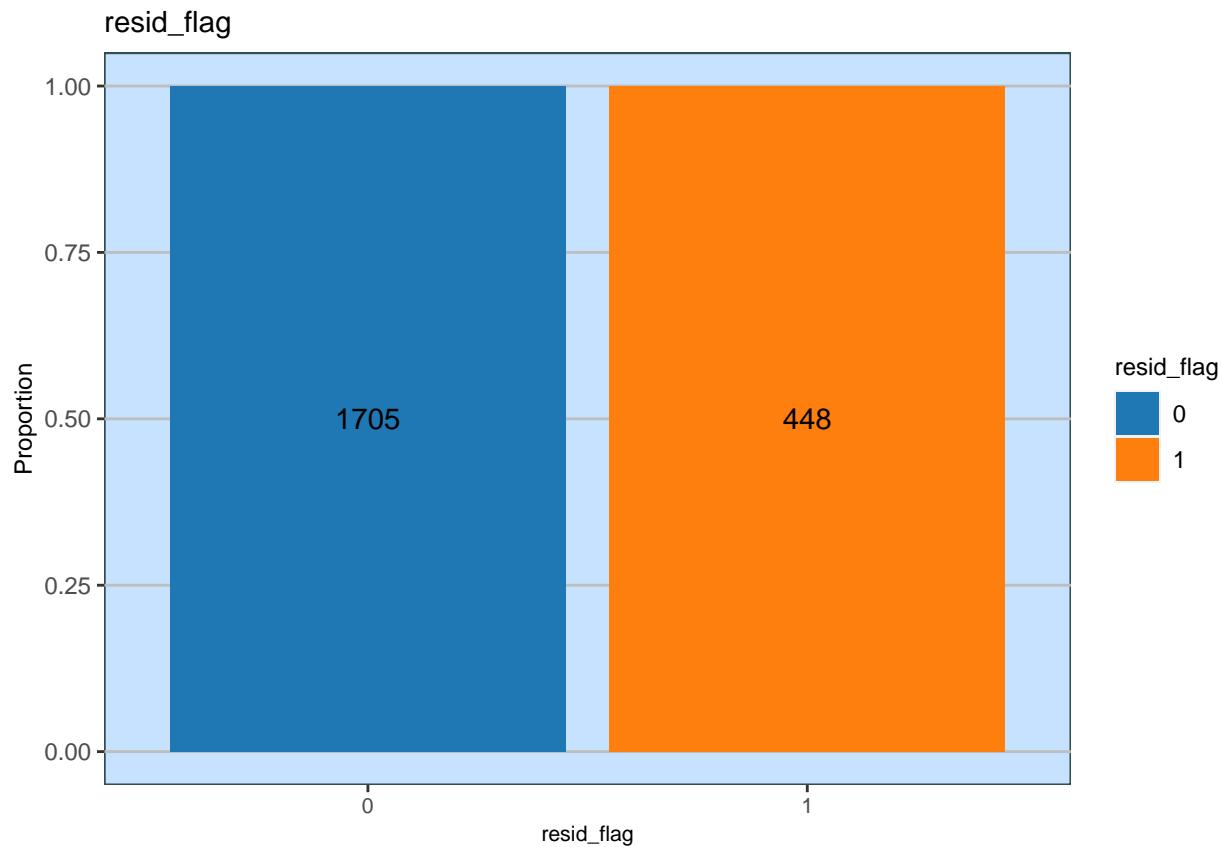
```

## [1] 50034.9
```

mean(dfNew_Out\$INCOME)

```

## [1] 62214.63
```



```
EHModel_Regression_Robust(zz[[1]]$model, "TARGET_AMT")
```

```
##
## Call: rlm(formula = fm, data = train_reg)
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -4.75510 -0.41048  0.02966  0.39112  3.35883
## 
## Coefficients:
##                               Value Std. Error t value
## (Intercept)             6.5702  0.5486   11.9753
## KIDSDRIV              -0.2852  0.1595   -1.7885
## HOMEKIDS               0.0177  0.0164    1.0758
## YOJ                     0.0174  0.0123    1.4177
## BLUEBOOK                0.0000  0.0000   -1.5970
## OLDCLAIM                0.0000  0.0000    1.5080
## CLM_FREQ                -0.0348  0.0154   -2.2652
## CAR_AGE                 -0.0073  0.0120   -0.6118
## MSTATUS_Yes              -0.0560  0.0343   -1.6295
## CAR_TYPE_Panel.Truck     0.1242  0.0763    1.6290
## REVOKED_Yes              -0.0498  0.0507   -0.9811
## EDUCATION_High.School   -0.0226  0.0778   -0.2903
## EDUCATION_Bachelors     -0.0812  0.0622   -1.3055
## EDUCATION_z_High.School -0.0138  0.0688   -0.2004
## yojSquared                -0.0012  0.0008   -1.4849
```

```

## bluebook_log          0.1873  0.0660    2.8384
## carage_log            0.0681  0.0707    0.9633
## mvr_pts_log           0.0486  0.0218    2.2285
## inter                 0.0063  0.0036    1.7496
##
## Residual standard error: 0.5882 on 1680 degrees of freedom
## [1] "RMSE:  0.738229868312696"

## [[1]]
## [[1]]$coefficients
##             (Intercept)          KIDSDRIV          HOMEKIDS
## 6.570197e+00 -2.851939e-01 1.769567e-02
## YOJ           BLUEBOOK          OLDCLAIM
## 1.737310e-02 -9.297302e-06 3.282881e-06
## CLM_FREQ          CAR_AGE          MSTATUS_Yes
## -3.479997e-02 -7.339202e-03 -5.597278e-02
## CAR_TYPE_Panel.Truck REVOKE_YES EDUCATION_High.School
## 1.242323e-01 -4.978158e-02 -2.258190e-02
## EDUCATION_Bachelors EDUCATION_z_High.School yojSquared
## -8.121512e-02 -1.378177e-02 -1.165405e-03
## bluebook_log        carage_log          mvr_pts_log
## 1.873492e-01 6.805847e-02 4.855737e-02
## inter
## 6.326461e-03
##
## [[1]]$residuals
##      1         3         4         5         6
## -0.3168836894 -0.4042310051 0.3702397740 -1.4144630769 -0.2389042950
##      7         8         9        12        13
## 0.6677056003 -0.2173881259 0.1559049680 -0.5895780892 -0.1377026731
##     14        15        16        17        19
## -1.4009058446 0.8099529782 0.0105418398 -0.3009316858 -1.0465218632
##     20        22        23        24        25
## -0.5416836332 1.1354701527 -0.1944858759 0.5680417764 -0.0365799586
##     26        27        28        31        32
## 0.3805277759 -0.5378145421 -0.7611278464 -0.7722018743 1.0263084394
##     33        34        35        36        38
## 0.4209675608 0.3752625663 0.2956533261 0.3764494456 -0.3322139504
##     39        41        42        43        44
## 0.5929340328 -0.8380752234 0.8802334084 2.3962804140 0.0878158380
##     45        46        47        50        51
## 0.0576641351 1.4757354400 -0.5432772644 0.2276724726 -0.0375712008
##     52        53        54        55        57
## -0.0321872422 0.3053575159 0.5632090904 -1.2155546312 0.4711791735
##     58        60        61        62        63
## -1.3220197885 -1.7594687440 -0.6065033631 0.4015998485 0.0144425015
##     64        65        66        69        70
## 0.7797259721 -0.2689874645 0.0781231380 0.6334966845 0.1818860144
##     71        72        73        74        76
## 1.4669434363 0.3331424348 0.2661836136 -0.2598654290 -0.3658465719
##     77        79        80        81        82
## -0.1580307911 0.0255430573 -2.1019692363 0.1916041561 0.3379788966
##     83        84        85        88        89
## 0.1365292719 -1.0060747023 2.1358035224 -0.5868164421 1.3479353358

```

```

##          90          91          92          93          95
## -0.8532594553  0.1378439548  0.0228195820  0.3109366390 -0.3149872304
##          96          98          99         100         101
## -0.0484222454  0.2397523609  0.5268325149 -0.3950437343 -1.0064122310
##         102         103         104         107         108
##  0.0751199952  0.8259329663  0.4436608762  0.5723224466  0.8496550764
##         109         110         111         112         114
## -0.5053650606  0.2196587541  0.1301824807  0.1440694234  0.2086168429
##         115         117         118         119         120
## -0.0171667749  2.5221319155 -0.7495120184 -0.6579371025 -0.9450069532
##         121         122         123         126         127
## -1.3917963223  0.5029042061 -0.7476474717 -0.0736980972  0.6117273201
##         128         129         130         131         133
##  2.0120714727  0.2175933449 -1.7372204341 -0.0245066842 -0.9958477823
##         134         136         137         138         139
##  0.0204916363  0.1916863281  0.7976081878 -0.0395545825 -0.1652821652
##         140         141         142         145         146
## -0.5304104893  0.3592360979  1.7593060775  1.2411503947  0.1170395434
##         147         148         149         150         152
##  0.8588741491  0.3413154870  0.2356892513  0.0972486865 -0.4305257331
##         153         155         156         157         158
##  1.8839906772 -0.0097688940 -1.1932742708  0.3093609341  0.4011189681
##         159         160         161         164         165
##  0.4129335117 -0.2924979295  0.1677424524 -1.4615521654  0.2499496183
##         166         167         168         169         171
##  0.8857347226  0.1806253358  0.1540826550 -0.5408384148 -0.4446849157
##         172         174         175         176         177
##  0.5674914747 -0.9643405683 -0.1898544533 -0.3115242914  0.0854632010
##         178         179         180         183         184
## -0.0165823413 -0.0121736515  0.5442974142  0.4842409617  0.1567860276
##         185         186         187         188         190
##  0.5186431074  1.6682327773 -1.3892126695  0.1490764643 -0.5088445283
##         191         193         194         195         196
##  0.4012361577 -0.5109099406  0.4722610539 -0.2147415510 -0.1806310114
##         197         198         199         202         203
##  1.6380547669  0.4151797497 -0.1385822865 -0.4714672587  0.1409261082
##         204         205         206         207         209
##  0.8975733553 -0.5730503980 -1.0627165773  0.4451636284  0.1964899603
##         210         212         213         214         215
## -0.0048396340  0.8972324878  0.4514360973 -0.1213580780 -0.1048053752
##         216         217         218         221         222
##  0.1411364869 -0.5414177131  1.8619109873 -0.0086129113  1.1488175721
##         223         224         225         226         228
##  0.4931566965  0.0635803426  0.0824880498 -0.1355287539 -0.3587818521
##         229         231         232         233         234
## -0.3804980705  1.2558607720  0.4667275030 -0.0079785383  0.1718231842
##         235         236         237         240         241
## -0.3311586416 -0.9579777701  0.5270161278 -0.0113274183  0.0154369624
##         242         243         244         245         247
## -1.1545779070 -0.2424012356  0.4214980318 -0.2270427410 -1.2361379328
##         248         250         251         252         253
##  0.3576093930  1.8885972454  2.5224745869  0.3054838657  0.3344751364
##         254         255         256         259         260
##  0.0429117103 -1.1770586223  0.4777690739 -0.0535991204  0.0279699347

```

```

##      261      262      263      264      266
##  0.4441973048  0.0821336302  0.0449412103 -0.3142811564 -0.3725044048
##      267      269      270      271      272
## -0.3601479892  0.6641631325 -0.0939410033 -0.6276526345 -0.6489969020
##      273      274      275      278      279
##  0.0830389339  1.6959645775  1.9950830334 -0.7288089730  0.0337733384
##      280      281      282      283      285
## -0.8398613682 -0.5505885608 -0.1126071096  0.3158983552  0.1746454538
##      286      288      289      290      291
## -0.0379579453  0.6676822227  0.7423863022  0.7160171737  0.0922123036
##      292      293      294      297      298
##  0.0405916253 -0.1187644412  0.4989196579  1.4689952955 -1.2758942741
##      299      300      301      302      304
##  0.0637705173  0.3435395601  0.5723702929  0.3575930306 -0.3717217964
##      305      307      308      309      310
##  0.0702871866  0.5035873940  0.0526211446 -0.2204019517 -1.4261789653
##      311      312      313      316      317
##  0.3127524312 -0.1771614679  0.1710352223  0.3635872691  0.4951109498
##      318      319      320      321      323
##  0.3572503741 -0.9337913534  0.7770791422 -0.2677700283  0.3055861877
##      324      326      327      328      329
## -1.6382639237  0.5061430633 -0.0255016619 -0.3478831026 -1.0335001372
##      330      331      332      335      336
## -0.3725632182 -0.0577157952  2.3245605656  0.1470370194  0.2822601187
##      337      338      339      340      342
## -0.1873825340  0.1746028377  1.3323987869  0.2389696865 -0.7213670242
##      343      345      346      347      348
## -0.3611089253 -0.9213741656  0.2861575894  1.3697221909  0.9189283310
##      349      350      351      354      355
##  0.0454428695  0.3714897695  0.4365665227 -2.1255396765 -0.7702968736
##      356      357      358      359      361
## -0.1257291759 -0.3317999981 -0.4908598475  0.2408838653  1.8271432633
##      362      364      365      366      367
##  0.6672988430 -0.9844055485  0.4536167112 -0.5498946675  0.4836524018
##      368      369      370      373      374
##  0.0408688560  0.7173479778 -0.9683849237  1.3424080302  0.6219949216
##      375      376      377      378      380
##  0.2050363443 -0.0132087405  0.2762738329  0.4749030038 -0.2014531803
##      381      383      384      385      386
## -0.0467541260  0.0791218232 -2.4080200641 -0.1139890027 -1.0123065818
##      387      388      389      392      393
## -0.7895844648 -0.1030946373 -1.2816193373  0.0274603199  0.2752960396
##      394      395      396      397      399
## -1.0478314812  0.2779013176 -0.8582825500 -0.2215332444  0.4511825810
##      400      402      403      404      405
##  0.5998238275  0.0011401052  0.3994276799 -0.1791549833 -0.2675049449
##      406      407      408      411      412
## -0.1415839170 -0.1395654866  0.2286358695 -0.1124562180 -0.7658921196
##      413      414      415      416      418
## -0.2838045002 -0.2655528978  0.9376033376 -0.8018161494 -0.3003885401
##      419      421      422      423      424
## -3.0099068416 -0.1744260437 -0.0203296549 -0.8943617333  0.3799111506
##      425      426      427      430      431
## -2.1475373890 -0.0204752190 -0.0436289131  0.5706110778 -0.6243575590

```

```

##      432      433      434      435      437
## -0.5592681568 -1.5995584059  1.1487196608  0.2897459802 -0.0176285190
##      438      440      441      442      443
##  0.7284497367 -0.8110098711  0.4703601490 -0.0706736291 -0.8469114704
##      444      445      446      449      450
##  1.3174217010 -0.1499671467  2.4074350268  1.9859751416  0.6149911790
##      451      452      453      454      456
##  0.2727899919 -1.0380224842 -0.1195522786  0.0813851778  0.0111304471
##      457      459      460      461      462
##  1.6135209848 -2.4178077863  0.2523095926  0.8306783824 -0.5899471672
##      463      464      465      468      469
## -0.1432173773 -0.2975565126  0.5575680833 -0.1172195363  0.0345570615
##      470      471      472      473      475
##  0.4512837328 -0.0771138606  0.0562961661 -1.6351922523  0.2895844153
##      476      478      479      480      481
## -1.0850403354 -0.3546206897 -0.5454002271 -1.5489254097 -1.6100444865
##      482      483      484      487      488
##  0.5732959293 -0.1487061937 -0.0534617046  0.0090002717  2.4756676136
##      489      490      491      492      494
##  0.3724156266  0.3745408744 -0.2241255021 -0.0884738766 -0.0533533120
##      495      497      498      499      500
##  0.8328176224  0.1063154927  0.3425241781 -1.2602273581 -0.7103299033
##      501      502      503      506      507
##  0.4308752872  1.5460869600  0.0534387530 -0.4219926762  0.2316511396
##      508      509      510      511      513
## -0.5365227569  0.3281294811 -2.4911584186 -0.5115478008  0.1432416831
##      514      516      517      518      519
##  0.7830704121  0.9970377843  0.1222542430  0.3121025496  0.3973097054
##      520      521      522      525      526
## -0.1021601235 -0.4349059278  1.3912680802  0.1455733625  0.7210151880
##      527      528      529      530      532
##  0.4138586762 -0.0181189394  0.3467177720  0.3257489231 -0.2774647814
##      533      535      536      537      538
## -0.2029753213  0.0203054054 -0.3539258393 -0.0350506089  0.1611585275
##      539      540      541      544      545
##  0.2956542153  0.6321343455  0.6548518316 -2.6211108343 -1.2295022581
##      546      547      548      549      551
## -0.0073092525 -0.3099176832  0.2351705334  0.4295152642  0.1514569612
##      552      554      555      556      557
## -1.8814691448 -0.6647178663 -0.2739845814 -0.1456063261 -0.5171752212
##      558      559      560      563      564
## -1.1549039989 -0.0753522184  0.0937944911 -0.8809561128 -0.0759944298
##      565      566      567      568      570
## -0.3349804109  0.8207193664 -0.6276456675 -0.1509724453  0.8286441192
##      571      573      574      575      576
## -0.3716651782 -0.1616801512 -0.0172188626 -0.0598617734  0.6854607352
##      577      578      579      582      583
##  0.1849926499 -1.5536939293 -0.1038052751  0.0844789407 -0.3262131938
##      584      585      586      587      589
##  0.9288343922 -0.9506477115  0.2823837073  0.4102758819  0.3355586174
##      590      592      593      594      595
## -0.4153033907  0.8945193312  0.3103048209 -0.3182091062 -0.5730714203
##      596      597      598      601      602
## -0.2971850676  0.5063734619  0.5551243298 -2.0566312434  1.7334088843

```

```

##      603      604      605      606      608
## -0.3340828988 0.4622219946 0.1998388152 -0.0823149451 -1.1484239901
##      609      611      612      613      614
## -0.2570616746 0.8633550559 0.2633595758 -0.4449226218 -0.5171043171
##      615      616      617      620      621
## 0.0949390470 -1.1101247312 0.6901855915 0.7082087382 -0.0645249707
##      622      623      624      625      627
## 1.5417144181 0.2890132368 -0.0727430042 -0.2307414582 0.3561504482
##      628      630      631      632      633
## -0.6888155912 -1.9958791116 0.0963081605 0.8089733049 -0.3604595849
##      634      635      636      639      640
## -0.0721613675 0.3439381156 -0.2985925908 0.4723326081 2.8287188420
##      641      642      643      644      646
## -0.0469916985 -1.2794528521 0.5064680460 0.2400873010 -0.4789500715
##      647      649      650      651      652
## 0.0527449709 0.5971342876 0.2891626640 2.5123196682 -0.3703427833
##      653      654      655      658      659
## 0.2789213396 0.4559854076 0.3853547983 1.6043657544 -0.0585610150
##      660      661      662      663      665
## -1.1025226014 0.4829812324 2.0615019004 -0.4611039019 0.4131502515
##      666      668      669      670      671
## 2.2365891264 -0.3771986496 0.1077030128 -0.6993007544 0.5132760545
##      672      673      674      677      678
## 0.0578699661 0.3402085556 0.0067073444 0.1129192816 -0.4942342622
##      679      680      681      682      684
## 1.4024825599 -0.2003188769 2.4248827728 0.0101892185 0.7625472453
##      685      687      688      689      690
## 0.2693185489 -0.3280864395 -0.4400081072 0.2418439517 0.5207254921
##      691      692      693      696      697
## 0.6893734960 0.5390799689 -0.3104110877 0.4989847361 -0.2003618738
##      698      699      700      701      703
## 0.3060658084 0.1540220944 -0.1629001048 -0.2680439051 -0.1939468981
##      704      706      707      708      709
## -1.0183455517 0.2938165478 -0.1922617432 1.1961145174 -0.0518192825
##      710      711      712      715      716
## 0.5520615907 -0.2142596994 0.4657976851 -0.3792278588 0.2295683697
##      717      718      719      720      722
## 0.1989342575 -0.2297315804 -0.8596435221 -1.3139331479 -0.9241805976
##      723      725      726      727      728
## -0.9290913850 -0.1308884138 0.4670326167 0.0298975599 0.5392733885
##      729      730      731      734      735
## 0.8446305704 -1.2143954193 0.4780515647 -0.4926961273 0.3991805997
##      736      737      738      739      741
## -0.1378183792 -0.5748772210 -0.8273673915 1.1478332908 -1.5195948331
##      742      744      745      746      747
## 0.9812879244 -0.8964429308 0.1783111123 -0.7471102461 0.3046517689
##      748      749      750      753      754
## -0.7385881979 -0.1832416677 0.5394538011 0.8998888108 0.1546118763
##      755      756      757      758      760
## 2.0756277852 -0.9039972628 -0.3166528802 0.5397049288 1.4290500687
##      761      763      764      765      766
## -0.2731251868 0.4501835684 -1.1131934511 -0.2059163883 0.4007030820
##      767      768      769      772      773
## -0.4297337134 1.7077299100 -0.1186031112 -1.5645041515 -0.8766161836

```

```

##      774      775      776      777      779
##  1.9329952075 -1.4935602202  0.0118671706 -1.2546280274  1.9960942008
##      780      782      783      784      785
## -0.2798880694  2.2860942243 -0.2165652514 -1.1897381428  0.3914204371
##      786      787      788      791      792
## -0.3854156898 -0.5148171289  0.2225791163 -0.7934778254 -0.6181550817
##      793      794      795      796      798
##  0.3180439817  0.2939724849 -0.1294169866 -0.2479198613 -0.3208232711
##      799      801      802      803      804
##  0.1683695103  0.0041729279 -0.4116895798  0.5811033969 -0.9212360554
##      805      806      807      810      811
## -0.4679679032  0.3918169321 -0.0358892747  2.5114701846 -1.3708556544
##      812      813      814      815      817
##  0.6211243173  0.0247019669  0.2291829037 -1.2338981214 -0.6563261629
##      818      820      821      822      823
##  0.0136313970  0.0549308887 -0.0251703358  0.5810476549 -0.2347967377
##      824      825      826      829      830
##  0.1935566829 -0.7088389160 -0.8126293044  1.3294957003 -0.2262713974
##      831      832      833      834      836
## -0.5308213920 -0.0539941934 -0.4433502801  0.0282307361 -0.0299957399
##      837      839      840      841      842
##  0.7990278366 -0.1977129019 -0.5901022703  0.5254836219 -0.5067001747
##      843      844      845      848      849
## -0.1927953606 -1.3484210414 -0.5051073468 -0.3113868347  1.2047435948
##      850      851      852      853      855
## -1.4033985362  1.4698213455 -0.9352811741  0.0288471068  0.7402633053
##      856      858      859      860      861
## -0.2106965696  1.7305655226  0.2482566405  0.5061680616 -0.0083410964
##      862      863      864      867      868
## -1.9097598651  0.2184755733 -0.5074118061 -1.1675302931 -0.3569599988
##      869      870      871      872      874
## -0.0026767027 -0.3470373483  0.9355362998 -0.7169195730  0.3931778648
##      875      877      878      879      880
## -0.7481116469 -1.4483870433 -1.1712010196  1.3159288922 -1.2062351759
##      881      882      883      886      887
##  0.5373752420 -0.0017784525 -1.3365630964 -0.3296206277 -0.7873707999
##      888      889      890      891      893
##  0.5540985788 -0.3347366589  0.3338506112  0.2853215748  0.0767055380
##      894      896      897      898      899
##  1.2071800220 -1.4257964673  0.4155612012 -0.3955404730 -0.2312695327
##      900      901      902      905      906
## -0.6935281967  0.2690721679  0.0655492969  0.2862023033  0.6954933092
##      907      908      909      910      912
## -0.3350345158 -0.3918385446  0.2704687714  0.3513048895 -0.0788801951
##      913      915      916      917      918
##  0.0238207624  0.2397349789 -1.9556337256  0.4422644361 -0.3321314147
##      919      920      921      924      925
## -0.2912334504 -1.7840343657  0.1893058461  0.2575700979 -0.0679217855
##      926      927      928      929      931
##  0.4494176941 -0.4855379545  1.5013472273 -0.0564996184  0.2663834621
##      932      934      935      936      937
## -0.0845363736 -0.1521198100  0.8158575979  0.2556486962 -0.3887188371
##      938      939      940      943      944
##  0.3616348390 -2.8109866244  0.5753298003  0.0890150438 -3.5383530511

```

```

##      945      946      947      948      950
##  0.1155111584  0.0867559192 -3.3836171664 -1.1040003065 -0.5288472404
##      951      953      954      955      956
## -0.3380897382 -0.1179309307 -0.2435821627 -1.0654240835  0.7527219742
##      957      958      959      962      963
##  0.2972236876 -0.5068107068  0.5368142632 -0.4473816429  0.1539869595
##      964      965      966      967      969
##  0.0523017874  0.3806939374  0.0438547992 -1.3846040652 -0.2404351734
##      970      972      973      974      975
## -0.5671766143  0.4830254730 -0.2897848129 -0.5904854580  0.7546890270
##      976      977      978      981      982
##  0.2515021430 -0.4959009226 -0.1145291296 -0.2573496493  0.0117961253
##      983      984      985      986      988
## -0.2783325833  0.3987866719  2.0139693712 -0.3914457925  0.4753656676
##      989      991      992      993      994
## -0.6201058273  0.3908226568  0.6413002434 -0.1636931041  1.8177886433
##      995      996      997      1000     1001
##  0.0054030149 -0.3490253475 -1.2262765786  0.0802569557 -0.2568262439
##      1002     1003     1004     1005     1007
## -0.2731191615  0.3535936063 -0.7409610311  0.4371522027 -0.8093240514
##      1008     1010     1011     1012     1013
## -0.7054924992  0.0399652475  0.3637911957  0.7101593046  0.6674417272
##      1014     1015     1016     1019     1020
##  0.2827210437  0.1494484251  0.0645722593  0.3409484277 -0.3461166109
##      1021     1022     1023     1024     1026
##  0.3800509720  0.1281782104  0.3644113609 -1.0281833025 -1.4107906211
##      1027     1029     1030     1031     1032
## -0.4702581379 -0.6669693936 -0.0034039360  0.5438285299  0.4344334153
##      1033     1034     1035     1038     1039
## -2.2687962768 -1.0890963122  0.3131177163 -1.2296633630  0.4434541302
##      1040     1041     1042     1043     1045
##  0.2326566948 -0.3797411741 -0.4822779962 -0.6309108328  0.5747316796
##      1046     1048     1049     1050     1051
##  0.2929312919 -0.1275798355 -0.0105803399  0.8765810371 -1.5048797989
##      1052     1053     1054     1057     1058
##  0.1753691513 -0.9447116476 -1.2935961646 -0.2668324337  0.2614496365
##      1059     1060     1061     1062     1064
## -0.1797140581  0.2185699316 -1.2397329874 -0.7371845026  0.6585727213
##      1065     1067     1068     1069     1070
##  0.2842476246  0.0672496629  2.2685570058  1.0476269625  0.5292403633
##      1071     1072     1073     1076     1077
##  0.1316371783  0.3725598677 -0.3800004281  0.3182859711 -0.3543206550
##      1078     1079     1080     1081     1083
## -1.1909623898 -0.8798794602 -0.4771056597  0.0661836604  0.1598871103
##      1084     1086     1087     1088     1089
## -0.1785491185 -0.9920397578 -0.0379431306  0.3693828592  0.0212167469
##      1090     1091     1092     1095     1096
## -1.0303996018  0.1858477486  2.1878916583 -0.2032503543  1.6279711055
##      1097     1098     1099     1100     1102
## -0.8011868773  1.4016246214 -0.1920883121 -1.4225086510 -0.1898041828
##      1103     1105     1106     1107     1108
## -0.0315781086 -0.0650141866  0.1800448605 -0.1051771742 -0.1103964782
##      1109     1110     1111     1114     1115
## -0.4200682136  0.6290248308 -0.6160490359  0.2671765948  0.2607016840

```

```

##      1116      1117      1118      1119      1121
##  0.3158141930 -0.2122322721 -0.5394586844 -0.5322253067  0.1417421603
##      1122      1124      1125      1126      1127
##  0.0851285001  0.0974788708 -0.8657721798  0.2321687246  0.2798740936
##      1128      1129      1130      1133      1134
## -0.1135853705  0.2618080492  0.4626825197  0.3467170621 -0.6481962563
##      1135      1136      1137      1138      1140
## -0.9671774169  1.6595573025  2.6551764613  0.2531630869  0.2102005721
##      1141      1143      1144      1145      1146
## -0.2111304002  0.6678316951  0.4923830857 -1.6007158923  0.2565296137
##      1147      1148      1149      1152      1153
##  0.1553143530  0.5383179093 -0.0306337212 -1.4390738720  0.0173084244
##      1154      1155      1156      1157      1159
## -0.6790429578 -1.4488795809 -0.8979679436  0.4885602333  0.3770754409
##      1160      1162      1163      1164      1165
## -0.2734123681 -0.3034950259 -0.0184130603  0.2244351467  0.4941443200
##      1166      1167      1168      1171      1172
##  0.6161145787  0.5500433719 -0.6420910708 -0.4703869520 -0.8371382034
##      1173      1174      1175      1176      1178
##  0.0938681551  0.2971864883  0.3842435044 -0.3020609007  0.0805085644
##      1179      1181      1182      1183      1184
##  0.4506925366  0.5482355990  0.0810037183 -1.7377010824  0.2827260211
##      1185      1186      1187      1190      1191
##  0.3400967042 -1.0239312741 -0.1154017101 -0.7833764579 -1.5609335768
##      1192      1193      1194      1195      1197
## -0.6218917403  0.2225746660  1.8051661559 -0.1379843177  0.3431378729
##      1198      1200      1201      1202      1203
##  0.8431329229  2.6431593845  0.5242235533 -0.0693483885 -1.2770899546
##      1204      1205      1206      1209      1210
##  1.2133810765 -1.3099233709  1.8491949463 -0.8597455729  0.8261072297
##      1211      1212      1213      1214      1216
##  0.1051068939  0.3291109343  0.4972028213  0.8150745403  1.3033799561
##      1217      1219      1220      1221      1222
## -0.4297825428  0.2698578796 -0.7989805418  0.4549135851  0.4652311067
##      1223      1224      1225      1228      1229
##  0.4524441602 -0.6928731234  0.1194301948  0.1854127469  0.1145213499
##      1230      1231      1232      1233      1235
##  0.2434768734  0.3590682039 -0.2984810351  0.5481445745  0.4045952410
##      1236      1238      1239      1240      1241
##  0.0139910680  0.3844966374  0.2037796428 -0.7422506848  0.1896187738
##      1242      1243      1244      1247      1248
## -0.6344949436 -0.1360271195  0.4075550876 -0.1711586250  0.7713510990
##      1249      1250      1251      1252      1254
## -0.0435251622  0.7625421725  0.6990635206 -0.6875003496  0.2649502098
##      1255      1257      1258      1259      1260
## -0.9553312177  0.9383584282 -0.7605822694 -0.4455121208  1.1512876137
##      1261      1262      1263      1266      1267
##  0.2689299835 -0.6026760802 -1.3927602286  0.5624947843  0.2505944523
##      1268      1269      1270      1271      1273
##  0.7279895509 -0.9843697450 -0.0315384732 -0.0104514682 -0.8135188113
##      1274      1276      1277      1278      1279
##  0.7360820269  0.4639664141  0.6404788114  0.5998932488 -0.4403606129
##      1280      1281      1282      1285      1286
##  0.0524524959  0.1187949588  0.5960015274 -0.2579079919  0.2328843527

```

```

##      1287      1288      1289      1290      1292
## -0.0204573577 -0.1976941510  1.2824511851  0.4415975556  0.1712376860
##      1293      1295      1296      1297      1298
## -0.6405483349 -0.2651731623  0.4877720638  0.2520984873 -0.6844817283
##      1299      1300      1301      1304      1305
##  0.5178456175  0.5075944829  0.8553304505  0.7231983697 -0.3519812161
##      1306      1307      1308      1309      1311
## -0.4767479452  0.0360790666  0.2218591682  0.0545074062 -0.0940940211
##      1312      1314      1315      1316      1317
##  0.1256145154 -0.3519453924 -0.4126388396 -0.0726497612  0.0536240945
##      1318      1319      1320      1323      1324
##  0.2075069596  0.7365927072  0.6118352173  0.3096949748  0.4156091250
##      1325      1326      1327      1328      1330
## -0.7130710212  1.0897144507 -0.0579294093  0.3467094218  0.2623341796
##      1331      1333      1334      1335      1336
## -1.0616383288 -0.4135679898  0.5152786788 -0.4719505605 -0.2162431601
##      1337      1338      1339      1342      1343
##  0.1877840061  0.3177504221 -0.0679575461 -0.1482354011 -0.4587801132
##      1344      1345      1346      1347      1349
## -1.2890171490  0.0461650204 -0.5605986802  0.3920214358  1.5327317365
##      1350      1352      1353      1354      1355
##  0.6844627302  0.9746102626  0.5245967252  0.1134291146  0.2495816678
##      1356      1357      1358      1361      1362
##  0.2459218580  2.7630909138 -0.5003706571 -0.6626448033  0.1684904866
##      1363      1364      1365      1366      1368
##  0.2136313660  0.0295035053  0.8973526175  0.0035410079 -0.1825469096
##      1369      1371      1372      1373      1374
##  0.0872318732  0.0594141141  0.3191145065  0.1481292818 -0.4744085989
##      1375      1376      1377      1380      1381
##  0.1984873028 -1.1929765713 -4.1353727721 -0.6967959276 -0.4547180317
##      1382      1383      1384      1385      1387
## -0.6962643590 -1.3387408526 -1.0243948222 -1.5714824502 -0.0480535873
##      1388      1390      1391      1392      1393
##  0.3367033086 -0.6095683129 -0.0717981700  2.3983662407 -0.1277849679
##      1394      1395      1396      1399      1400
##  0.2315866302 -0.1511528179  0.3821648607  0.8772818293 -0.5030880841
##      1401      1402      1403      1404      1406
##  0.4223936277 -0.2136273915 -0.3297067685 -0.7953924948  0.1638636584
##      1407      1409      1410      1411      1412
## -0.5417632362  0.0671967482  0.2757469286  0.0881669465 -0.8861142162
##      1413      1414      1415      1418      1419
##  0.0803630237 -0.4673753844  0.3970229679 -1.1242536384 -0.3682168001
##      1420      1421      1422      1423      1425
## -0.1266037910  0.3906131193  0.3556398685  0.5482322802  0.5519953548
##      1426      1428      1429      1430      1431
## -0.3757117536 -0.6209433728 -0.4976802453  3.0708621775  0.2986260426
##      1432      1433      1434      1437      1438
##  0.4985002279  1.2845291593  0.3088545818  0.2169704234  0.3096099318
##      1439      1440      1441      1442      1444
## -0.6095894120 -1.5788261728  0.3070289857 -0.1294961305 -0.2580076565
##      1445      1447      1448      1449      1450
##  0.1033298387  0.1012526991  0.2693454498 -0.0773839792  0.5784700369
##      1451      1452      1453      1456      1457
## -1.8699911701  0.3128353538  0.1251409337 -0.4428340646 -0.2535027798

```

```

##      1458      1459      1460      1461      1463
## -0.1832728905 0.1329634264 -0.6825791072 2.2169482862 -1.2352477431
##      1464      1466      1467      1468      1469
## -0.3967261751 0.1627584926 -0.1421734219 0.3552660652 -0.3911827483
##      1470      1471      1472      1475      1476
## -0.5532508494 -1.7924671588 -1.6275292789 2.0701665248 0.8513519324
##      1477      1478      1479      1480      1482
## 1.7745908317 -0.1335647153 0.6966867556 0.1414738844 -0.1007773658
##      1483      1485      1486      1487      1488
## 0.1374089777 0.7573515309 -0.8895035774 1.1833828731 -0.7799132874
##      1489      1490      1491      1494      1495
## 0.7832210844 0.0871515150 -0.1473835475 -0.7653521773 -0.5581122754
##      1496      1497      1498      1499      1501
## 0.0887548943 0.2271608791 0.1988911346 0.2873404256 0.5899058765
##      1502      1504      1505      1506      1507
## -0.1614873784 1.7196321326 0.3760276386 1.6630434270 0.8793336970
##      1508      1509      1510      1513      1514
## 0.3483215628 0.2706249561 -1.0107496824 0.6483162983 -0.4626081309
##      1515      1516      1517      1518      1520
## 0.1764615368 -0.1572897930 -0.2541378097 0.0444025199 1.6674284880
##      1521      1523      1524      1525      1526
## -0.0869213387 -0.3812970683 -0.4098598232 -0.2671173990 0.2962907520
##      1527      1528      1529      1532      1533
## 0.4166721397 -1.7459831351 -0.6013540655 0.1393662317 -0.5806176165
##      1534      1535      1536      1537      1539
## -1.7061976355 0.5997983393 2.4916465641 0.3882470316 -0.2076213833
##      1540      1542      1543      1544      1545
## -0.2186517696 -0.5252481799 -1.3558607267 -0.5287432519 -0.8441727925
##      1546      1547      1548      1551      1552
## 0.3373505950 0.7386178770 0.2379200780 0.2469984151 2.4584909090
##      1553      1554      1555      1556      1558
## 0.4881590055 0.3647195693 -0.1020664133 -0.4383331348 0.7032704011
##      1559      1561      1562      1563      1564
## 0.5369090368 -0.8891551995 0.1560432589 -0.0105664776 -1.2179079442
##      1565      1566      1567      1570      1571
## 0.1770185144 0.0999330217 -0.1675277635 -0.0595345245 0.5008261604
##      1572      1573      1574      1575      1577
## -0.6102765093 -1.5547901223 0.8280930357 0.4959243598 0.6847227012
##      1578      1580      1581      1582      1583
## 0.3850123887 -0.0162266175 -2.3900733716 1.2417643300 1.7819382323
##      1584      1585      1586      1589      1590
## 0.1895727280 -0.9111846474 -1.6441349813 1.4822946735 -0.3320925589
##      1591      1592      1593      1594      1596
## -0.2248580825 0.8728559599 -0.1499296348 2.0065069136 -0.1346160443
##      1597      1599      1600      1601      1602
## -1.3075690143 0.3269022435 -0.5058312382 0.2809609083 -0.4728649118
##      1603      1604      1605      1608      1609
## -0.6502241545 -0.0997434870 -0.0612114944 0.0067159635 -0.3672619506
##      1610      1611      1612      1613      1615
## -0.6843718849 -0.8386205993 -0.2198308113 -0.3170033531 0.1271834619
##      1616      1618      1619      1620      1621
## 0.1630631649 0.1434805377 -1.4377354409 -0.4193982161 -0.0454734840
##      1622      1623      1624      1627      1628
## -0.2289836426 -0.7350358395 -1.1377835309 0.7003140923 1.4313023667

```

```

##      1629       1630       1631       1632       1634
##  0.4642504917  0.0389380367 -0.0199779298  0.2242048434 -0.1534328271
##      1635       1637       1638       1639       1640
## -0.4258204323  0.3532348579  0.2613314505  2.5263017541  0.2765205192
##      1641       1642       1643       1646       1647
##  0.0301446668 -0.9507081295 -0.2299128770 -0.2862857710  0.5245544200
##      1648       1649       1650       1651       1653
## -0.1890022085 -0.7788448382  0.2722491605  0.1431704337 -0.2350034952
##      1654       1656       1657       1658       1659
## -0.9700392319 -0.0766395810  0.0399647194 -0.2381556262 -0.1270520388
##      1660       1661       1662       1665       1666
##  0.2370677713  0.1568438316  0.6089279146 -0.6220538139  0.0451842896
##      1667       1668       1669       1670       1672
## -1.5294992828  0.2982084198  0.4555664959  0.0365274553  0.1365993597
##      1673       1675       1676       1677       1678
## -0.0314251963 -0.0496126534  0.7211241525  0.1042257403  1.9607281308
##      1679       1680       1681       1684       1685
##  0.1774154214  0.3538266594  0.1918392362 -1.1952717631 -1.6799521701
##      1686       1687       1688       1689       1691
##  0.2708753654  0.1614523379  0.2827372797 -0.8507369726  0.7946018383
##      1692       1694       1695       1696       1697
## -0.4185283737 -0.2226440091 -0.6635133801 -0.4426180301  0.8036830208
##      1698       1699       1700       1703       1704
##  0.4232163538 -0.0206491763 -0.2221097404  0.0994875366  0.5417688588
##      1705       1706       1707       1708       1710
## -0.1458743780 -0.0600752756  0.8836122665 -1.2216528507 -0.3652353653
##      1711       1713       1714       1715       1716
## -0.5061932674  0.7361244010  0.6589847689 -0.1597871062 -1.1514963149
##      1717       1718       1719       1722       1723
##  0.4643122987 -0.2283904480 -0.8936131682  0.4441062471  0.9101030890
##      1724       1725       1726       1727       1729
## -2.2520211857  0.8041026481  0.4660130908 -0.0347414839 -0.0802687002
##      1730       1732       1733       1734       1735
## -0.3627895850  0.3811565497 -0.0615274038 -2.7668019703  0.6793906456
##      1736       1737       1738       1741       1742
## -0.8920002336 -0.1798981859 -0.6472603361  0.2554787725 -0.0105448309
##      1743       1744       1745       1746       1748
##  0.7139679471  0.7429729154  0.1975195806 -0.7640334433 -0.3959375853
##      1749       1751       1752       1753       1754
## -4.7551001176  0.2875459257 -0.5326143397  0.6669413192 -0.9740235114
##      1755       1756       1757       1760       1761
##  0.5577547729  0.6925446803 -0.6354839745  0.3210792588 -0.3867957018
##      1762       1763       1764       1765       1767
##  0.0535541206  2.3209591850  0.0002135324 -1.0026856416 -0.5764321119
##      1768       1770       1771       1772       1773
## -0.0390970996  1.3285819216 -0.2548557878  0.2713352442 -0.2052196799
##      1774       1775       1776       1779       1780
##  0.2745568805 -0.1748020882  1.4608638168  1.9070837495  1.2899665238
##      1781       1782       1783       1784       1786
## -0.3516801251 -0.6553032451 -0.3805342944  0.1007530623  0.3223608720
##      1787       1789       1790       1791       1792
##  0.6528211701  1.9892563135 -0.8329246000  0.5994534863 -0.3896001541
##      1793       1794       1795       1798       1799
##  0.6558622495  0.9267477616 -0.9212566412 -0.1927934554  0.1388393719

```

```

##          1800          1801          1802          1803          1805
##  0.3860993226  1.3841216815  0.1021596321  0.0545326271  0.1186664982
##          1806          1808          1809          1810          1811
## -0.2125612830 -1.0968343626 -1.5735503090 -0.6346469615  0.2924212099
##          1812          1813          1814          1817          1818
## -0.2824862728  0.1036838066  0.2257618445 -0.2462183946 -0.4276020979
##          1819          1820          1821          1822          1824
## -1.2174193367 -0.0463853525 -0.8456828772  0.6569863711 -0.3684119183
##          1825          1828          1829          1830          1831
## -0.0773226194 -0.1010222165 -0.2016311724  0.1998294441 -1.6212371810
##          1832          1833          1834          1837          1838
##  2.8245215229  0.5385866939 -0.5194407120 -0.0525206180 -0.7494409110
##          1839          1840          1841          1842          1844
## -0.1030066177  0.1096527461  0.5087047599  0.6354249961  0.2017194738
##          1845          1847          1848          1849          1850
## -0.0031022003  0.5735164765  0.0634269606  0.7657655954 -0.0165950956
##          1851          1852          1853          1856          1857
##  0.6262909535  1.5655947236  2.3984363338  0.5276231781  0.1958432392
##          1858          1859          1860          1861          1863
##  3.0356469905 -1.7886388423 -0.8171452486 -0.2651339635 -0.2655756854
##          1864          1866          1867          1868          1869
##  0.6724412387 -0.1198277770 -0.8909627266  0.0364483128 -0.6092973972
##          1870          1871          1872          1875          1876
##  0.5845636027 -0.2421498789  0.1270494306 -1.0233078334 -0.4535326035
##          1877          1878          1879          1880          1882
## -1.8067528488  0.8069275471 -0.0022499045  0.3235347836 -0.3235290043
##          1883          1885          1886          1887          1888
## -0.9285344453 -0.1636295511  0.3598380964 -0.0210721067  0.1769039171
##          1889          1890          1891          1894          1895
## -1.1485124605  0.1893500609 -0.1004298954  0.3352826917  0.1736482577
##          1896          1897          1898          1899          1901
##  0.4221494549 -0.4021610759  0.2609206162 -0.1028273281  0.3541432879
##          1902          1904          1905          1906          1907
##  0.1713092970 -0.0150510391 -1.1677798320  1.6259632992 -0.1795727358
##          1908          1909          1910          1913          1914
##  0.3586227491  0.8058178825 -2.5964473969  0.2638787355  0.3415342230
##          1915          1916          1917          1918          1920
##  0.2190057550 -1.6866699743 -0.2887120947 -1.0227396994 -0.7910637707
##          1921          1923          1924          1925          1926
## -0.4431210790  0.5681767575  0.4490659576 -0.2128997552  0.2750146532
##          1927          1928          1929          1932          1933
## -1.0458573061  0.1761891419 -0.5508428819  0.6114789257 -0.2622824587
##          1934          1935          1936          1937          1939
## -0.3696625412 -0.1899917467 -0.2689395109  0.4758128484 -0.8300382230
##          1940          1942          1943          1944          1945
##  1.1834502684  0.4624933679  0.2283400691 -0.3217208016 -0.4382671836
##          1946          1947          1948          1951          1952
##  0.0296574200 -1.1769169583 -0.7773075270 -2.5327496334 -0.2878950534
##          1953          1954          1955          1956          1958
##  0.2408957178  2.5673952103  0.1575852715  0.3679409241 -0.4942076862
##          1959          1961          1962          1963          1964
##  0.1004561549  0.2817183315 -0.5781845506 -0.1588771041 -0.6326246374
##          1965          1966          1967          1970          1971
## -0.1049886778  0.4150878856  1.4066220071  0.0183369540  0.5428536633

```

| | 1972 | 1973 | 1974 | 1975 | 1977 |
|----|---------------|---------------|---------------|---------------|---------------|
| ## | 0.3059985595 | -1.6077481578 | -0.2573450763 | -0.1289354173 | -0.2249494712 |
| ## | 1978 | 1980 | 1981 | 1982 | 1983 |
| ## | -0.4110910404 | -1.7060902905 | -0.0532863694 | 1.5312227928 | 0.3305944304 |
| ## | 1984 | 1985 | 1986 | 1989 | 1990 |
| ## | 0.1238969808 | -0.0194874778 | 0.3597882569 | 1.0346662425 | 0.0873194299 |
| ## | 1991 | 1992 | 1993 | 1994 | 1996 |
| ## | 0.0063392824 | 0.3394047284 | 0.5629018351 | 0.5707054007 | -0.0643115167 |
| ## | 1997 | 1999 | 2000 | 2001 | 2002 |
| ## | 0.1612992663 | 0.6039679188 | 0.2818571399 | 0.4817032712 | -0.5695052860 |
| ## | 2003 | 2004 | 2005 | 2008 | 2009 |
| ## | -0.5190251445 | 0.3754357370 | -0.1176068178 | 0.9849742859 | -1.3812574336 |
| ## | 2010 | 2011 | 2012 | 2013 | 2015 |
| ## | 0.7195412967 | 0.6419833723 | -0.4720658189 | -0.2274318384 | 0.0346581256 |
| ## | 2016 | 2018 | 2019 | 2020 | 2021 |
| ## | 0.3735619585 | 0.4768520847 | -0.7151402973 | 0.0540819259 | 0.3927004875 |
| ## | 2022 | 2023 | 2024 | 2027 | 2028 |
| ## | 0.2273568821 | -0.5161340623 | -1.4681829686 | 0.5328847115 | 0.1385559315 |
| ## | 2029 | 2030 | 2031 | 2032 | 2034 |
| ## | 2.0385525553 | 0.4470448866 | -0.1367444386 | 0.1708712976 | -0.2728576532 |
| ## | 2035 | 2037 | 2038 | 2039 | 2040 |
| ## | -0.3455132454 | -0.3196709316 | 3.3588321360 | 0.2783343298 | 0.5661753496 |
| ## | 2041 | 2042 | 2043 | 2046 | 2047 |
| ## | 0.8908272310 | 0.9076838027 | -0.6301522703 | -1.0889901351 | -1.2126313697 |
| ## | 2048 | 2049 | 2050 | 2051 | 2053 |
| ## | -0.0228010398 | 0.0564820602 | 0.0348361881 | -0.7342236291 | -1.0855634157 |
| ## | 2054 | 2056 | 2057 | 2058 | 2059 |
| ## | 0.4117437423 | 1.1144423352 | 0.1296361707 | -1.1904354422 | 0.1780368212 |
| ## | 2060 | 2061 | 2062 | 2065 | 2066 |
| ## | 0.0673548166 | -0.6063420518 | 0.0439268019 | 0.0999807529 | 0.4221092311 |
| ## | 2067 | 2068 | 2069 | 2070 | 2072 |
| ## | 0.7143647721 | -0.2676907926 | 0.2881754698 | -0.7068664316 | -0.6375019371 |
| ## | 2073 | 2075 | 2076 | 2077 | 2078 |
| ## | 0.4996702310 | -1.0477974824 | -0.9231047385 | 0.5912742347 | 0.1248747165 |
| ## | 2079 | 2080 | 2081 | 2084 | 2085 |
| ## | -0.2525389933 | 0.0189716794 | 0.0391789262 | 0.3449849518 | -0.0614274157 |
| ## | 2086 | 2087 | 2088 | 2089 | 2091 |
| ## | 1.2395313016 | -0.6738947895 | 0.2980038552 | -0.0908920631 | 0.0297790692 |
| ## | 2092 | 2094 | 2095 | 2096 | 2097 |
| ## | 0.4459979756 | 1.3200635428 | -0.5855153498 | -0.6526870069 | -0.9423833803 |
| ## | 2098 | 2099 | 2100 | 2103 | 2104 |
| ## | -1.0590864123 | 0.8946067117 | 0.4762376446 | 1.7371869398 | -2.0650794109 |
| ## | 2105 | 2106 | 2107 | 2108 | 2110 |
| ## | -1.1922956441 | 0.7446315767 | -0.0734837474 | -0.7643841828 | -1.1010459309 |
| ## | 2111 | 2113 | 2114 | 2115 | 2116 |
| ## | 0.1429544379 | -0.2361593882 | 0.2704430972 | -0.2167564235 | 0.0027787316 |
| ## | 2117 | 2118 | 2119 | 2122 | 2123 |
| ## | 0.5746408916 | 0.4195698089 | 0.3376646001 | 0.0063226939 | 0.6559129101 |
| ## | 2124 | 2125 | 2126 | 2127 | 2129 |
| ## | -0.5890465004 | -0.4422036065 | -0.2547385681 | 0.0759207657 | -2.2797438608 |
| ## | 2130 | 2132 | 2133 | 2134 | 2135 |
| ## | 0.2416674948 | -0.0887759062 | 2.4641640019 | -0.1779820695 | 0.4238761790 |
| ## | 2136 | 2137 | 2138 | 2141 | 2142 |
| ## | -0.0070730625 | -0.5636870957 | 0.2940838788 | 0.2913483112 | -0.0964387598 |

```

##      2143      2144      2145      2146      2148
## -0.4125385228 -1.3805048078 -0.8872491408  0.5942036913 -0.4912771988
##      2149      2151      2152      2153
## -0.3983122800 -0.2558283444 -0.4832578430 -0.3153710420
##
## [[1]]$wresid
##      1      3      4      5      6
## -0.3168836894 -0.4042310051  0.3702397740 -1.4144630769 -0.2389042950
##      7      8      9     12     13
##  0.6677056003 -0.2173881259  0.1559049680 -0.5895780892 -0.1377026731
##     14     15     16     17     19
## -1.4009058446  0.8099529782  0.0105418398 -0.3009316858 -1.0465218632
##     20     22     23     24     25
## -0.5416836332  1.1354701527 -0.1944858759  0.5680417764 -0.0365799586
##     26     27     28     31     32
##  0.3805277759 -0.5378145421 -0.7611278464 -0.7722018743  1.0263084394
##     33     34     35     36     38
##  0.4209675608  0.3752625663  0.2956533261  0.3764494456 -0.3322139504
##     39     41     42     43     44
##  0.5929340328 -0.8380752234  0.8802334084  2.3962804140  0.0878158380
##     45     46     47     50     51
##  0.0576641351  1.4757354400 -0.5432772644  0.2276724726 -0.0375712008
##     52     53     54     55     57
## -0.0321872422  0.3053575159  0.5632090904 -1.2155546312  0.4711791735
##     58     60     61     62     63
## -1.3220197885 -1.7594687440 -0.6065033631  0.4015998485  0.0144425015
##     64     65     66     69     70
##  0.7797259721 -0.2689874645  0.0781231380  0.6334966845  0.1818860144
##     71     72     73     74     76
##  1.4669434363  0.3331424348  0.2661836136 -0.2598654290 -0.3658465719
##     77     79     80     81     82
## -0.1580307911  0.0255430573 -2.1019692363  0.1916041561  0.3379788966
##     83     84     85     88     89
##  0.1365292719 -1.0060747023  2.1358035224 -0.5868164421  1.3479353358
##     90     91     92     93     95
## -0.8532594553  0.1378439548  0.0228195820  0.3109366390 -0.3149872304
##     96     98     99     100    101
## -0.0484222454  0.2397523609  0.5268325149 -0.3950437343 -1.0064122310
##    102     103    104    107    108
##  0.0751199952  0.8259329663  0.4436608762  0.5723224466  0.8496550764
##     109     110    111    112    114
## -0.5053650606  0.2196587541  0.1301824807  0.1440694234  0.2086168429
##     115     117    118    119    120
## -0.0171667749  2.5221319155 -0.7495120184 -0.6579371025 -0.9450069532
##     121     122    123    126    127
## -1.3917963223  0.5029042061 -0.7476474717 -0.0736980972  0.6117273201
##     128     129    130    131    133
##  2.0120714727  0.2175933449 -1.7372204341 -0.0245066842 -0.9958477823
##     134     136    137    138    139
##  0.0204916363  0.1916863281  0.7976081878 -0.0395545825 -0.1652821652
##     140     141    142    145    146
## -0.5304104893  0.3592360979  1.7593060775  1.2411503947  0.1170395434
##     147     148    149    150    152
##  0.8588741491  0.3413154870  0.2356892513  0.0972486865 -0.4305257331

```

```

##          153          155          156          157          158
##  1.8839906772 -0.0097688940 -1.1932742708  0.3093609341  0.4011189681
##          159          160          161          164          165
##  0.4129335117 -0.2924979295  0.1677424524 -1.4615521654  0.2499496183
##          166          167          168          169          171
##  0.8857347226  0.1806253358  0.1540826550 -0.5408384148 -0.4446849157
##          172          174          175          176          177
##  0.5674914747 -0.9643405683 -0.1898544533 -0.3115242914  0.0854632010
##          178          179          180          183          184
## -0.0165823413 -0.0121736515  0.5442974142  0.4842409617  0.1567860276
##          185          186          187          188          190
##  0.5186431074  1.6682327773 -1.3892126695  0.1490764643 -0.5088445283
##          191          193          194          195          196
##  0.4012361577 -0.5109099406  0.4722610539 -0.2147415510 -0.1806310114
##          197          198          199          202          203
##  1.6380547669  0.4151797497 -0.1385822865 -0.4714672587  0.1409261082
##          204          205          206          207          209
##  0.8975733553 -0.5730503980 -1.0627165773  0.4451636284  0.1964899603
##          210          212          213          214          215
## -0.0048396340  0.8972324878  0.4514360973 -0.1213580780 -0.1048053752
##          216          217          218          221          222
##  0.1411364869 -0.5414177131  1.8619109873 -0.0086129113  1.1488175721
##          223          224          225          226          228
##  0.4931566965  0.0635803426  0.0824880498 -0.1355287539 -0.3587818521
##          229          231          232          233          234
## -0.3804980705  1.2558607720  0.4667275030 -0.0079785383  0.1718231842
##          235          236          237          240          241
## -0.3311586416 -0.9579777701  0.5270161278 -0.0113274183  0.0154369624
##          242          243          244          245          247
## -1.1545779070 -0.2424012356  0.4214980318 -0.2270427410 -1.2361379328
##          248          250          251          252          253
##  0.3576093930  1.8885972454  2.5224745869  0.3054838657  0.3344751364
##          254          255          256          259          260
##  0.0429117103 -1.1770586223  0.4777690739 -0.0535991204  0.0279699347
##          261          262          263          264          266
##  0.4441973048  0.0821336302  0.0449412103 -0.3142811564 -0.3725044048
##          267          269          270          271          272
## -0.3601479892  0.6641631325 -0.0939410033 -0.6276526345 -0.6489969020
##          273          274          275          278          279
##  0.0830389339  1.6959645775  1.9950830334 -0.7288089730  0.0337733384
##          280          281          282          283          285
## -0.8398613682 -0.5505885608 -0.1126071096  0.3158983552  0.1746454538
##          286          288          289          290          291
## -0.0379579453  0.6676822227  0.7423863022  0.7160171737  0.0922123036
##          292          293          294          297          298
##  0.0405916253 -0.1187644412  0.4989196579  1.4689952955 -1.2758942741
##          299          300          301          302          304
##  0.0637705173  0.3435395601  0.5723702929  0.3575930306 -0.3717217964
##          305          307          308          309          310
##  0.0702871866  0.5035873940  0.0526211446 -0.2204019517 -1.4261789653
##          311          312          313          316          317
##  0.3127524312 -0.1771614679  0.1710352223  0.3635872691  0.4951109498
##          318          319          320          321          323
##  0.3572503741 -0.9337913534  0.7770791422 -0.2677700283  0.3055861877

```

```

##      324      326      327      328      329
## -1.6382639237  0.5061430633 -0.0255016619 -0.3478831026 -1.0335001372
##      330      331      332      335      336
## -0.3725632182 -0.0577157952  2.3245605656  0.1470370194  0.2822601187
##      337      338      339      340      342
## -0.1873825340  0.1746028377  1.3323987869  0.2389696865 -0.7213670242
##      343      345      346      347      348
## -0.3611089253 -0.9213741656  0.2861575894  1.3697221909  0.9189283310
##      349      350      351      354      355
##  0.0454428695  0.3714897695  0.4365665227 -2.1255396765 -0.7702968736
##      356      357      358      359      361
## -0.1257291759 -0.3317999981 -0.4908598475  0.2408838653  1.8271432633
##      362      364      365      366      367
##  0.6672988430 -0.9844055485  0.4536167112 -0.5498946675  0.4836524018
##      368      369      370      373      374
##  0.0408688560  0.7173479778 -0.9683849237  1.3424080302  0.6219949216
##      375      376      377      378      380
##  0.2050363443 -0.0132087405  0.2762738329  0.4749030038 -0.2014531803
##      381      383      384      385      386
## -0.0467541260  0.0791218232 -2.4080200641 -0.1139890027 -1.0123065818
##      387      388      389      392      393
## -0.7895844648 -0.1030946373 -1.2816193373  0.0274603199  0.2752960396
##      394      395      396      397      399
## -1.0478314812  0.2779013176 -0.8582825500 -0.2215332444  0.4511825810
##      400      402      403      404      405
##  0.5998238275  0.0011401052  0.3994276799 -0.1791549833 -0.2675049449
##      406      407      408      411      412
## -0.1415839170 -0.1395654866  0.2286358695 -0.1124562180 -0.7658921196
##      413      414      415      416      418
## -0.2838045002 -0.2655528978  0.9376033376 -0.8018161494 -0.3003885401
##      419      421      422      423      424
## -3.0099068416 -0.1744260437 -0.0203296549 -0.8943617333  0.3799111506
##      425      426      427      430      431
## -2.1475373890 -0.0204752190 -0.0436289131  0.5706110778 -0.6243575590
##      432      433      434      435      437
## -0.5592681568 -1.5995584059  1.1487196608  0.2897459802 -0.0176285190
##      438      440      441      442      443
##  0.7284497367 -0.8110098711  0.4703601490 -0.0706736291 -0.8469114704
##      444      445      446      449      450
##  1.3174217010 -0.1499671467  2.4074350268  1.9859751416  0.6149911790
##      451      452      453      454      456
##  0.2727899919 -1.0380224842 -0.1195522786  0.0813851778  0.0111304471
##      457      459      460      461      462
##  1.6135209848 -2.4178077863  0.2523095926  0.8306783824 -0.5899471672
##      463      464      465      468      469
## -0.1432173773 -0.2975565126  0.5575680833 -0.1172195363  0.0345570615
##      470      471      472      473      475
##  0.4512837328 -0.0771138606  0.0562961661 -1.6351922523  0.2895844153
##      476      478      479      480      481
## -1.0850403354 -0.3546206897 -0.5454002271 -1.5489254097 -1.6100444865
##      482      483      484      487      488
##  0.5732959293 -0.1487061937 -0.0534617046  0.0090002717  2.4756676136
##      489      490      491      492      494
##  0.3724156266  0.3745408744 -0.2241255021 -0.0884738766 -0.0533533120

```

```

##      495      497      498      499      500
##  0.8328176224 0.1063154927 0.3425241781 -1.2602273581 -0.7103299033
##      501      502      503      506      507
##  0.4308752872 1.5460869600 0.0534387530 -0.4219926762  0.2316511396
##      508      509      510      511      513
## -0.5365227569 0.3281294811 -2.4911584186 -0.5115478008  0.1432416831
##      514      516      517      518      519
##  0.7830704121 0.9970377843 0.1222542430 0.3121025496  0.3973097054
##      520      521      522      525      526
## -0.1021601235 -0.4349059278 1.3912680802 0.1455733625  0.7210151880
##      527      528      529      530      532
##  0.4138586762 -0.0181189394 0.3467177720 0.3257489231 -0.2774647814
##      533      535      536      537      538
## -0.2029753213 0.0203054054 -0.3539258393 -0.0350506089  0.1611585275
##      539      540      541      544      545
##  0.2956542153 0.6321343455 0.6548518316 -2.6211108343 -1.2295022581
##      546      547      548      549      551
## -0.0073092525 -0.3099176832 0.2351705334 0.4295152642  0.1514569612
##      552      554      555      556      557
## -1.8814691448 -0.6647178663 -0.2739845814 -0.1456063261 -0.5171752212
##      558      559      560      563      564
## -1.1549039989 -0.0753522184 0.0937944911 -0.8809561128 -0.0759944298
##      565      566      567      568      570
## -0.3349804109 0.8207193664 -0.6276456675 -0.1509724453  0.8286441192
##      571      573      574      575      576
## -0.3716651782 -0.1616801512 -0.0172188626 -0.0598617734  0.6854607352
##      577      578      579      582      583
##  0.1849926499 -1.5536939293 -0.1038052751 0.0844789407 -0.3262131938
##      584      585      586      587      589
##  0.9288343922 -0.9506477115 0.2823837073 0.4102758819  0.3355586174
##      590      592      593      594      595
## -0.4153033907 0.8945193312 0.3103048209 -0.3182091062 -0.5730714203
##      596      597      598      601      602
## -0.2971850676 0.5063734619 0.5551243298 -2.0566312434  1.7334088843
##      603      604      605      606      608
## -0.3340828988 0.4622219946 0.1998388152 -0.0823149451 -1.1484239901
##      609      611      612      613      614
## -0.2570616746 0.8633550559 0.2633595758 -0.4449226218 -0.5171043171
##      615      616      617      620      621
##  0.0949390470 -1.1101247312 0.6901855915 0.7082087382 -0.0645249707
##      622      623      624      625      627
##  1.5417144181 0.2890132368 -0.0727430042 -0.2307414582  0.3561504482
##      628      630      631      632      633
## -0.6888155912 -1.9958791116 0.0963081605 0.8089733049 -0.3604595849
##      634      635      636      639      640
## -0.0721613675 0.3439381156 -0.2985925908 0.4723326081  2.8287188420
##      641      642      643      644      646
## -0.0469916985 -1.2794528521 0.5064680460 0.2400873010 -0.4789500715
##      647      649      650      651      652
##  0.0527449709 0.5971342876 0.2891626640 2.5123196682 -0.3703427833
##      653      654      655      658      659
##  0.2789213396 0.4559854076 0.3853547983 1.6043657544 -0.0585610150
##      660      661      662      663      665
## -1.1025226014 0.4829812324 2.0615019004 -0.4611039019  0.4131502515

```

```

##       666       668       669       670       671
##  2.2365891264 -0.3771986496  0.1077030128 -0.6993007544  0.5132760545
##       672       673       674       677       678
##  0.0578699661  0.3402085556  0.0067073444  0.1129192816 -0.4942342622
##       679       680       681       682       684
##  1.4024825599 -0.2003188769  2.4248827728  0.0101892185  0.7625472453
##       685       687       688       689       690
##  0.2693185489 -0.3280864395 -0.4400081072  0.2418439517  0.5207254921
##       691       692       693       696       697
##  0.6893734960  0.5390799689 -0.3104110877  0.4989847361 -0.2003618738
##       698       699       700       701       703
##  0.3060658084  0.1540220944 -0.1629001048 -0.2680439051 -0.1939468981
##       704       706       707       708       709
## -1.0183455517  0.2938165478 -0.1922617432  1.1961145174 -0.0518192825
##       710       711       712       715       716
##  0.5520615907 -0.2142596994  0.4657976851 -0.3792278588  0.2295683697
##       717       718       719       720       722
##  0.1989342575 -0.2297315804 -0.8596435221 -1.3139331479 -0.9241805976
##       723       725       726       727       728
## -0.9290913850 -0.1308884138  0.4670326167  0.0298975599  0.5392733885
##       729       730       731       734       735
##  0.8446305704 -1.2143954193  0.4780515647 -0.4926961273  0.3991805997
##       736       737       738       739       741
## -0.1378183792 -0.5748772210 -0.8273673915  1.1478332908 -1.5195948331
##       742       744       745       746       747
##  0.9812879244 -0.8964429308  0.1783111123 -0.7471102461  0.3046517689
##       748       749       750       753       754
## -0.7385881979 -0.1832416677  0.5394538011  0.8998888108  0.1546118763
##       755       756       757       758       760
##  2.0756277852 -0.9039972628 -0.3166528802  0.5397049288  1.4290500687
##       761       763       764       765       766
## -0.2731251868  0.4501835684 -1.1131934511 -0.2059163883  0.4007030820
##       767       768       769       772       773
## -0.4297337134  1.7077299100 -0.1186031112 -1.5645041515 -0.8766161836
##       774       775       776       777       779
##  1.9329952075 -1.4935602202  0.0118671706 -1.2546280274  1.9960942008
##       780       782       783       784       785
## -0.2798880694  2.2860942243 -0.2165652514 -1.1897381428  0.3914204371
##       786       787       788       791       792
## -0.3854156898 -0.5148171289  0.2225791163 -0.7934778254 -0.6181550817
##       793       794       795       796       798
##  0.3180439817  0.2939724849 -0.1294169866 -0.2479198613 -0.3208232711
##       799       801       802       803       804
##  0.1683695103  0.0041729279 -0.4116895798  0.5811033969 -0.9212360554
##       805       806       807       810       811
## -0.4679679032  0.3918169321 -0.0358892747  2.5114701846 -1.3708556544
##       812       813       814       815       817
##  0.6211243173  0.0247019669  0.2291829037 -1.2338981214 -0.6563261629
##       818       820       821       822       823
##  0.0136313970  0.0549308887 -0.0251703358  0.5810476549 -0.2347967377
##       824       825       826       829       830
##  0.1935566829 -0.7088389160 -0.8126293044  1.3294957003 -0.2262713974
##       831       832       833       834       836
## -0.5308213920 -0.0539941934 -0.4433502801  0.0282307361 -0.0299957399

```

```

##      837          839          840          841          842
##  0.7990278366 -0.1977129019 -0.5901022703  0.5254836219 -0.5067001747
##      843          844          845          848          849
## -0.1927953606 -1.3484210414 -0.5051073468 -0.3113868347  1.2047435948
##      850          851          852          853          855
## -1.4033985362  1.4698213455 -0.9352811741  0.0288471068  0.7402633053
##      856          858          859          860          861
## -0.2106965696  1.7305655226  0.2482566405  0.5061680616 -0.0083410964
##      862          863          864          867          868
## -1.9097598651  0.2184755733 -0.5074118061 -1.1675302931 -0.3569599988
##      869          870          871          872          874
## -0.0026767027 -0.3470373483  0.9355362998 -0.7169195730  0.3931778648
##      875          877          878          879          880
## -0.7481116469 -1.4483870433 -1.1712010196  1.3159288922 -1.2062351759
##      881          882          883          886          887
##  0.5373752420 -0.0017784525 -1.3365630964 -0.3296206277 -0.7873707999
##      888          889          890          891          893
##  0.5540985788 -0.3347366589  0.3338506112  0.2853215748  0.0767055380
##      894          896          897          898          899
##  1.2071800220 -1.4257964673  0.4155612012 -0.3955404730 -0.2312695327
##      900          901          902          905          906
## -0.6935281967  0.2690721679  0.0655492969  0.2862023033  0.6954933092
##      907          908          909          910          912
## -0.3350345158 -0.3918385446  0.2704687714  0.3513048895 -0.0788801951
##      913          915          916          917          918
##  0.0238207624  0.2397349789 -1.9556337256  0.4422644361 -0.3321314147
##      919          920          921          924          925
## -0.2912334504 -1.7840343657  0.1893058461  0.2575700979 -0.0679217855
##      926          927          928          929          931
##  0.4494176941 -0.4855379545  1.5013472273 -0.0564996184  0.2663834621
##      932          934          935          936          937
## -0.0845363736 -0.1521198100  0.8158575979  0.2556486962 -0.3887188371
##      938          939          940          943          944
##  0.3616348390 -2.8109866244  0.5753298003  0.0890150438 -3.5383530511
##      945          946          947          948          950
##  0.1155111584  0.0867559192 -3.3836171664 -1.1040003065 -0.5288472404
##      951          953          954          955          956
## -0.3380897382 -0.1179309307 -0.2435821627 -1.0654240835  0.7527219742
##      957          958          959          962          963
##  0.2972236876 -0.5068107068  0.5368142632 -0.4473816429  0.1539869595
##      964          965          966          967          969
##  0.0523017874  0.3806939374  0.0438547992 -1.3846040652 -0.2404351734
##      970          972          973          974          975
## -0.5671766143  0.4830254730 -0.2897848129 -0.5904854580  0.7546890270
##      976          977          978          981          982
##  0.2515021430 -0.4959009226 -0.1145291296 -0.2573496493  0.0117961253
##      983          984          985          986          988
## -0.2783325833  0.3987866719  2.0139693712 -0.3914457925  0.4753656676
##      989          991          992          993          994
## -0.6201058273  0.3908226568  0.6413002434 -0.1636931041  1.8177886433
##      995          996          997          1000         1001
##  0.0054030149 -0.3490253475 -1.2262765786  0.0802569557 -0.2568262439
##      1002         1003         1004         1005         1007
## -0.2731191615  0.3535936063 -0.7409610311  0.4371522027 -0.8093240514

```

```

##      1008        1010        1011        1012        1013
## -0.7054924992  0.0399652475  0.3637911957  0.7101593046  0.6674417272
##      1014        1015        1016        1019        1020
##  0.2827210437  0.1494484251  0.0645722593  0.3409484277 -0.3461166109
##      1021        1022        1023        1024        1026
##  0.3800509720  0.1281782104  0.3644113609 -1.0281833025 -1.4107906211
##      1027        1029        1030        1031        1032
## -0.4702581379 -0.6669693936 -0.0034039360  0.5438285299  0.4344334153
##      1033        1034        1035        1038        1039
## -2.2687962768 -1.0890963122  0.3131177163 -1.2296633630  0.4434541302
##      1040        1041        1042        1043        1045
##  0.2326566948 -0.3797411741 -0.4822779962 -0.6309108328  0.5747316796
##      1046        1048        1049        1050        1051
##  0.2929312919 -0.1275798355 -0.0105803399  0.8765810371 -1.5048797989
##      1052        1053        1054        1057        1058
##  0.1753691513 -0.9447116476 -1.2935961646 -0.2668324337  0.2614496365
##      1059        1060        1061        1062        1064
## -0.1797140581  0.2185699316 -1.2397329874 -0.7371845026  0.6585727213
##      1065        1067        1068        1069        1070
##  0.2842476246  0.0672496629  2.2685570058  1.0476269625  0.5292403633
##      1071        1072        1073        1076        1077
##  0.1316371783  0.3725598677 -0.3800004281  0.3182859711 -0.3543206550
##      1078        1079        1080        1081        1083
## -1.1909623898 -0.8798794602 -0.4771056597  0.0661836604  0.1598871103
##      1084        1086        1087        1088        1089
## -0.1785491185 -0.9920397578 -0.0379431306  0.3693828592  0.0212167469
##      1090        1091        1092        1095        1096
## -1.0303996018  0.1858477486  2.1878916583 -0.2032503543  1.6279711055
##      1097        1098        1099        1100        1102
## -0.8011868773  1.4016246214 -0.1920883121 -1.4225086510 -0.1898041828
##      1103        1105        1106        1107        1108
## -0.0315781086 -0.0650141866  0.1800448605 -0.1051771742 -0.1103964782
##      1109        1110        1111        1114        1115
## -0.4200682136  0.6290248308 -0.6160490359  0.2671765948  0.2607016840
##      1116        1117        1118        1119        1121
##  0.3158141930 -0.2122322721 -0.5394586844 -0.5322253067  0.1417421603
##      1122        1124        1125        1126        1127
##  0.0851285001  0.0974788708 -0.8657721798  0.2321687246  0.2798740936
##      1128        1129        1130        1133        1134
## -0.1135853705  0.2618080492  0.4626825197  0.3467170621 -0.6481962563
##      1135        1136        1137        1138        1140
## -0.9671774169  1.6595573025  2.6551764613  0.2531630869  0.2102005721
##      1141        1143        1144        1145        1146
## -0.2111304002  0.6678316951  0.4923830857 -1.6007158923  0.2565296137
##      1147        1148        1149        1152        1153
##  0.1553143530  0.5383179093 -0.0306337212 -1.4390738720  0.0173084244
##      1154        1155        1156        1157        1159
## -0.6790429578 -1.4488795809 -0.8979679436  0.4885602333  0.3770754409
##      1160        1162        1163        1164        1165
## -0.2734123681 -0.3034950259 -0.0184130603  0.2244351467  0.4941443200
##      1166        1167        1168        1171        1172
##  0.6161145787  0.5500433719 -0.6420910708 -0.4703869520 -0.8371382034
##      1173        1174        1175        1176        1178
##  0.0938681551  0.2971864883  0.3842435044 -0.3020609007  0.0805085644

```

| | | | | | |
|----|---------------|---------------|---------------|---------------|---------------|
| ## | 1179 | 1181 | 1182 | 1183 | 1184 |
| ## | 0.4506925366 | 0.5482355990 | 0.0810037183 | -1.7377010824 | 0.2827260211 |
| ## | 1185 | 1186 | 1187 | 1190 | 1191 |
| ## | 0.3400967042 | -1.0239312741 | -0.1154017101 | -0.7833764579 | -1.5609335768 |
| ## | 1192 | 1193 | 1194 | 1195 | 1197 |
| ## | -0.6218917403 | 0.2225746660 | 1.8051661559 | -0.1379843177 | 0.3431378729 |
| ## | 1198 | 1200 | 1201 | 1202 | 1203 |
| ## | 0.8431329229 | 2.6431593845 | 0.5242235533 | -0.0693483885 | -1.2770899546 |
| ## | 1204 | 1205 | 1206 | 1209 | 1210 |
| ## | 1.2133810765 | -1.3099233709 | 1.8491949463 | -0.8597455729 | 0.8261072297 |
| ## | 1211 | 1212 | 1213 | 1214 | 1216 |
| ## | 0.1051068939 | 0.3291109343 | 0.4972028213 | 0.8150745403 | 1.3033799561 |
| ## | 1217 | 1219 | 1220 | 1221 | 1222 |
| ## | -0.4297825428 | 0.2698578796 | -0.7989805418 | 0.4549135851 | 0.4652311067 |
| ## | 1223 | 1224 | 1225 | 1228 | 1229 |
| ## | 0.4524441602 | -0.6928731234 | 0.1194301948 | 0.1854127469 | 0.1145213499 |
| ## | 1230 | 1231 | 1232 | 1233 | 1235 |
| ## | 0.2434768734 | 0.3590682039 | -0.2984810351 | 0.5481445745 | 0.4045952410 |
| ## | 1236 | 1238 | 1239 | 1240 | 1241 |
| ## | 0.0139910680 | 0.3844966374 | 0.2037796428 | -0.7422506848 | 0.1896187738 |
| ## | 1242 | 1243 | 1244 | 1247 | 1248 |
| ## | -0.6344949436 | -0.1360271195 | 0.4075550876 | -0.1711586250 | 0.7713510990 |
| ## | 1249 | 1250 | 1251 | 1252 | 1254 |
| ## | -0.0435251622 | 0.7625421725 | 0.6990635206 | -0.6875003496 | 0.2649502098 |
| ## | 1255 | 1257 | 1258 | 1259 | 1260 |
| ## | -0.9553312177 | 0.9383584282 | -0.7605822694 | -0.4455121208 | 1.1512876137 |
| ## | 1261 | 1262 | 1263 | 1266 | 1267 |
| ## | 0.2689299835 | -0.6026760802 | -1.3927602286 | 0.5624947843 | 0.2505944523 |
| ## | 1268 | 1269 | 1270 | 1271 | 1273 |
| ## | 0.7279895509 | -0.9843697450 | -0.0315384732 | -0.0104514682 | -0.8135188113 |
| ## | 1274 | 1276 | 1277 | 1278 | 1279 |
| ## | 0.7360820269 | 0.4639664141 | 0.6404788114 | 0.5998932488 | -0.4403606129 |
| ## | 1280 | 1281 | 1282 | 1285 | 1286 |
| ## | 0.0524524959 | 0.1187949588 | 0.5960015274 | -0.2579079919 | 0.2328843527 |
| ## | 1287 | 1288 | 1289 | 1290 | 1292 |
| ## | -0.0204573577 | -0.1976941510 | 1.2824511851 | 0.4415975556 | 0.1712376860 |
| ## | 1293 | 1295 | 1296 | 1297 | 1298 |
| ## | -0.6405483349 | -0.2651731623 | 0.4877720638 | 0.2520984873 | -0.6844817283 |
| ## | 1299 | 1300 | 1301 | 1304 | 1305 |
| ## | 0.5178456175 | 0.5075944829 | 0.8553304505 | 0.7231983697 | -0.3519812161 |
| ## | 1306 | 1307 | 1308 | 1309 | 1311 |
| ## | -0.4767479452 | 0.0360790666 | 0.2218591682 | 0.0545074062 | -0.0940940211 |
| ## | 1312 | 1314 | 1315 | 1316 | 1317 |
| ## | 0.1256145154 | -0.3519453924 | -0.4126388396 | -0.0726497612 | 0.0536240945 |
| ## | 1318 | 1319 | 1320 | 1323 | 1324 |
| ## | 0.2075069596 | 0.7365927072 | 0.6118352173 | 0.3096949748 | 0.4156091250 |
| ## | 1325 | 1326 | 1327 | 1328 | 1330 |
| ## | -0.7130710212 | 1.0897144507 | -0.0579294093 | 0.3467094218 | 0.2623341796 |
| ## | 1331 | 1333 | 1334 | 1335 | 1336 |
| ## | -1.0616383288 | -0.4135679898 | 0.5152786788 | -0.4719505605 | -0.2162431601 |
| ## | 1337 | 1338 | 1339 | 1342 | 1343 |
| ## | 0.1877840061 | 0.3177504221 | -0.0679575461 | -0.1482354011 | -0.4587801132 |
| ## | 1344 | 1345 | 1346 | 1347 | 1349 |
| ## | -1.2890171490 | 0.0461650204 | -0.5605986802 | 0.3920214358 | 1.5327317365 |

| | | | | | |
|----|---------------|---------------|---------------|---------------|---------------|
| ## | 1350 | 1352 | 1353 | 1354 | 1355 |
| ## | 0.6844627302 | 0.9746102626 | 0.5245967252 | 0.1134291146 | 0.2495816678 |
| ## | 1356 | 1357 | 1358 | 1361 | 1362 |
| ## | 0.2459218580 | 2.7630909138 | -0.5003706571 | -0.6626448033 | 0.1684904866 |
| ## | 1363 | 1364 | 1365 | 1366 | 1368 |
| ## | 0.2136313660 | 0.0295035053 | 0.8973526175 | 0.0035410079 | -0.1825469096 |
| ## | 1369 | 1371 | 1372 | 1373 | 1374 |
| ## | 0.0872318732 | 0.0594141141 | 0.3191145065 | 0.1481292818 | -0.4744085989 |
| ## | 1375 | 1376 | 1377 | 1380 | 1381 |
| ## | 0.1984873028 | -1.1929765713 | -4.1353727721 | -0.6967959276 | -0.4547180317 |
| ## | 1382 | 1383 | 1384 | 1385 | 1387 |
| ## | -0.6962643590 | -1.3387408526 | -1.0243948222 | -1.5714824502 | -0.0480535873 |
| ## | 1388 | 1390 | 1391 | 1392 | 1393 |
| ## | 0.3367033086 | -0.6095683129 | -0.0717981700 | 2.3983662407 | -0.1277849679 |
| ## | 1394 | 1395 | 1396 | 1399 | 1400 |
| ## | 0.2315866302 | -0.1511528179 | 0.3821648607 | 0.8772818293 | -0.5030880841 |
| ## | 1401 | 1402 | 1403 | 1404 | 1406 |
| ## | 0.4223936277 | -0.2136273915 | -0.3297067685 | -0.7953924948 | 0.1638636584 |
| ## | 1407 | 1409 | 1410 | 1411 | 1412 |
| ## | -0.5417632362 | 0.0671967482 | 0.2757469286 | 0.0881669465 | -0.8861142162 |
| ## | 1413 | 1414 | 1415 | 1418 | 1419 |
| ## | 0.0803630237 | -0.4673753844 | 0.3970229679 | -1.1242536384 | -0.3682168001 |
| ## | 1420 | 1421 | 1422 | 1423 | 1425 |
| ## | -0.1266037910 | 0.3906131193 | 0.3556398685 | 0.5482322802 | 0.5519953548 |
| ## | 1426 | 1428 | 1429 | 1430 | 1431 |
| ## | -0.3757117536 | -0.6209433728 | -0.4976802453 | 3.0708621775 | 0.2986260426 |
| ## | 1432 | 1433 | 1434 | 1437 | 1438 |
| ## | 0.4985002279 | 1.2845291593 | 0.3088545818 | 0.2169704234 | 0.3096099318 |
| ## | 1439 | 1440 | 1441 | 1442 | 1444 |
| ## | -0.6095894120 | -1.5788261728 | 0.3070289857 | -0.1294961305 | -0.2580076565 |
| ## | 1445 | 1447 | 1448 | 1449 | 1450 |
| ## | 0.1033298387 | 0.1012526991 | 0.2693454498 | -0.0773839792 | 0.5784700369 |
| ## | 1451 | 1452 | 1453 | 1456 | 1457 |
| ## | -1.8699911701 | 0.3128353538 | 0.1251409337 | -0.4428340646 | -0.2535027798 |
| ## | 1458 | 1459 | 1460 | 1461 | 1463 |
| ## | -0.1832728905 | 0.1329634264 | -0.6825791072 | 2.2169482862 | -1.2352477431 |
| ## | 1464 | 1466 | 1467 | 1468 | 1469 |
| ## | -0.3967261751 | 0.1627584926 | -0.1421734219 | 0.3552660652 | -0.3911827483 |
| ## | 1470 | 1471 | 1472 | 1475 | 1476 |
| ## | -0.5532508494 | -1.7924671588 | -1.6275292789 | 2.0701665248 | 0.8513519324 |
| ## | 1477 | 1478 | 1479 | 1480 | 1482 |
| ## | 1.7745908317 | -0.1335647153 | 0.6966867556 | 0.1414738844 | -0.1007773658 |
| ## | 1483 | 1485 | 1486 | 1487 | 1488 |
| ## | 0.1374089777 | 0.7573515309 | -0.8895035774 | 1.1833828731 | -0.7799132874 |
| ## | 1489 | 1490 | 1491 | 1494 | 1495 |
| ## | 0.7832210844 | 0.0871515150 | -0.1473835475 | -0.7653521773 | -0.5581122754 |
| ## | 1496 | 1497 | 1498 | 1499 | 1501 |
| ## | 0.0887548943 | 0.2271608791 | 0.1988911346 | 0.2873404256 | 0.5899058765 |
| ## | 1502 | 1504 | 1505 | 1506 | 1507 |
| ## | -0.1614873784 | 1.7196321326 | 0.3760276386 | 1.6630434270 | 0.8793336970 |
| ## | 1508 | 1509 | 1510 | 1513 | 1514 |
| ## | 0.3483215628 | 0.2706249561 | -1.0107496824 | 0.6483162983 | -0.4626081309 |
| ## | 1515 | 1516 | 1517 | 1518 | 1520 |
| ## | 0.1764615368 | -0.1572897930 | -0.2541378097 | 0.0444025199 | 1.6674284880 |

```

##      1521      1523      1524      1525      1526
## -0.0869213387 -0.3812970683 -0.4098598232 -0.2671173990  0.2962907520
##      1527      1528      1529      1532      1533
##  0.4166721397 -1.7459831351 -0.6013540655  0.1393662317 -0.5806176165
##      1534      1535      1536      1537      1539
## -1.7061976355  0.5997983393  2.4916465641  0.3882470316 -0.2076213833
##      1540      1542      1543      1544      1545
## -0.2186517696 -0.5252481799 -1.3558607267 -0.5287432519 -0.8441727925
##      1546      1547      1548      1551      1552
##  0.3373505950  0.7386178770  0.2379200780  0.2469984151  2.4584909090
##      1553      1554      1555      1556      1558
##  0.4881590055  0.3647195693 -0.1020664133 -0.4383331348  0.7032704011
##      1559      1561      1562      1563      1564
##  0.5369090368 -0.8891551995  0.1560432589 -0.0105664776 -1.2179079442
##      1565      1566      1567      1570      1571
##  0.1770185144  0.0999330217 -0.1675277635 -0.0595345245  0.5008261604
##      1572      1573      1574      1575      1577
## -0.6102765093 -1.5547901223  0.8280930357  0.4959243598  0.6847227012
##      1578      1580      1581      1582      1583
##  0.3850123887 -0.0162266175 -2.3900733716  1.2417643300  1.7819382323
##      1584      1585      1586      1589      1590
##  0.1895727280 -0.9111846474 -1.6441349813  1.4822946735 -0.3320925589
##      1591      1592      1593      1594      1596
## -0.2248580825  0.8728559599 -0.1499296348  2.0065069136 -0.1346160443
##      1597      1599      1600      1601      1602
## -1.3075690143  0.3269022435 -0.5058312382  0.2809609083 -0.4728649118
##      1603      1604      1605      1608      1609
## -0.6502241545 -0.0997434870 -0.0612114944  0.0067159635 -0.3672619506
##      1610      1611      1612      1613      1615
## -0.6843718849 -0.8386205993 -0.2198308113 -0.3170033531  0.1271834619
##      1616      1618      1619      1620      1621
##  0.1630631649  0.1434805377 -1.4377354409 -0.4193982161 -0.0454734840
##      1622      1623      1624      1627      1628
## -0.2289836426 -0.7350358395 -1.1377835309  0.7003140923  1.4313023667
##      1629      1630      1631      1632      1634
##  0.4642504917  0.0389380367 -0.0199779298  0.2242048434 -0.1534328271
##      1635      1637      1638      1639      1640
## -0.4258204323  0.3532348579  0.2613314505  2.5263017541  0.2765205192
##      1641      1642      1643      1646      1647
##  0.0301446668 -0.9507081295 -0.2299128770 -0.2862857710  0.5245544200
##      1648      1649      1650      1651      1653
## -0.1890022085 -0.7788448382  0.2722491605  0.1431704337 -0.2350034952
##      1654      1656      1657      1658      1659
## -0.9700392319 -0.0766395810  0.0399647194 -0.2381556262 -0.1270520388
##      1660      1661      1662      1665      1666
##  0.2370677713  0.1568438316  0.6089279146 -0.6220538139  0.0451842896
##      1667      1668      1669      1670      1672
## -1.5294992828  0.2982084198  0.4555664959  0.0365274553  0.1365993597
##      1673      1675      1676      1677      1678
## -0.0314251963 -0.0496126534  0.7211241525  0.1042257403  1.9607281308
##      1679      1680      1681      1684      1685
##  0.1774154214  0.3538266594  0.1918392362 -1.1952717631 -1.6799521701
##      1686      1687      1688      1689      1691
##  0.2708753654  0.1614523379  0.2827372797 -0.8507369726  0.7946018383

```

| | | | | | |
|----|---------------|---------------|---------------|---------------|---------------|
| ## | 1692 | 1694 | 1695 | 1696 | 1697 |
| ## | -0.4185283737 | -0.2226440091 | -0.6635133801 | -0.4426180301 | 0.8036830208 |
| ## | 1698 | 1699 | 1700 | 1703 | 1704 |
| ## | 0.4232163538 | -0.0206491763 | -0.2221097404 | 0.0994875366 | 0.5417688588 |
| ## | 1705 | 1706 | 1707 | 1708 | 1710 |
| ## | -0.1458743780 | -0.0600752756 | 0.8836122665 | -1.2216528507 | -0.3652353653 |
| ## | 1711 | 1713 | 1714 | 1715 | 1716 |
| ## | -0.5061932674 | 0.7361244010 | 0.6589847689 | -0.1597871062 | -1.1514963149 |
| ## | 1717 | 1718 | 1719 | 1722 | 1723 |
| ## | 0.4643122987 | -0.2283904480 | -0.8936131682 | 0.4441062471 | 0.9101030890 |
| ## | 1724 | 1725 | 1726 | 1727 | 1729 |
| ## | -2.2520211857 | 0.8041026481 | 0.4660130908 | -0.0347414839 | -0.0802687002 |
| ## | 1730 | 1732 | 1733 | 1734 | 1735 |
| ## | -0.3627895850 | 0.3811565497 | -0.0615274038 | -2.7668019703 | 0.6793906456 |
| ## | 1736 | 1737 | 1738 | 1741 | 1742 |
| ## | -0.8920002336 | -0.1798981859 | -0.6472603361 | 0.2554787725 | -0.0105448309 |
| ## | 1743 | 1744 | 1745 | 1746 | 1748 |
| ## | 0.7139679471 | 0.7429729154 | 0.1975195806 | -0.7640334433 | -0.3959375853 |
| ## | 1749 | 1751 | 1752 | 1753 | 1754 |
| ## | -4.7551001176 | 0.2875459257 | -0.5326143397 | 0.6669413192 | -0.9740235114 |
| ## | 1755 | 1756 | 1757 | 1760 | 1761 |
| ## | 0.5577547729 | 0.6925446803 | -0.6354839745 | 0.3210792588 | -0.3867957018 |
| ## | 1762 | 1763 | 1764 | 1765 | 1767 |
| ## | 0.0535541206 | 2.3209591850 | 0.0002135324 | -1.0026856416 | -0.5764321119 |
| ## | 1768 | 1770 | 1771 | 1772 | 1773 |
| ## | -0.0390970996 | 1.3285819216 | -0.2548557878 | 0.2713352442 | -0.2052196799 |
| ## | 1774 | 1775 | 1776 | 1779 | 1780 |
| ## | 0.2745568805 | -0.1748020882 | 1.4608638168 | 1.9070837495 | 1.2899665238 |
| ## | 1781 | 1782 | 1783 | 1784 | 1786 |
| ## | -0.3516801251 | -0.6553032451 | -0.3805342944 | 0.1007530623 | 0.3223608720 |
| ## | 1787 | 1789 | 1790 | 1791 | 1792 |
| ## | 0.6528211701 | 1.9892563135 | -0.8329246000 | 0.5994534863 | -0.3896001541 |
| ## | 1793 | 1794 | 1795 | 1798 | 1799 |
| ## | 0.6558622495 | 0.9267477616 | -0.9212566412 | -0.1927934554 | 0.1388393719 |
| ## | 1800 | 1801 | 1802 | 1803 | 1805 |
| ## | 0.3860993226 | 1.3841216815 | 0.1021596321 | 0.0545326271 | 0.1186664982 |
| ## | 1806 | 1808 | 1809 | 1810 | 1811 |
| ## | -0.2125612830 | -1.0968343626 | -1.5735503090 | -0.6346469615 | 0.2924212099 |
| ## | 1812 | 1813 | 1814 | 1817 | 1818 |
| ## | -0.2824862728 | 0.1036838066 | 0.2257618445 | -0.2462183946 | -0.4276020979 |
| ## | 1819 | 1820 | 1821 | 1822 | 1824 |
| ## | -1.2174193367 | -0.0463853525 | -0.8456828772 | 0.6569863711 | -0.3684119183 |
| ## | 1825 | 1828 | 1829 | 1830 | 1831 |
| ## | -0.0773226194 | -0.1010222165 | -0.2016311724 | 0.1998294441 | -1.6212371810 |
| ## | 1832 | 1833 | 1834 | 1837 | 1838 |
| ## | 2.8245215229 | 0.5385866939 | -0.5194407120 | -0.0525206180 | -0.7494409110 |
| ## | 1839 | 1840 | 1841 | 1842 | 1844 |
| ## | -0.1030066177 | 0.1096527461 | 0.5087047599 | 0.6354249961 | 0.2017194738 |
| ## | 1845 | 1847 | 1848 | 1849 | 1850 |
| ## | -0.0031022003 | 0.5735164765 | 0.0634269606 | 0.7657655954 | -0.0165950956 |
| ## | 1851 | 1852 | 1853 | 1856 | 1857 |
| ## | 0.6262909535 | 1.5655947236 | 2.3984363338 | 0.5276231781 | 0.1958432392 |
| ## | 1858 | 1859 | 1860 | 1861 | 1863 |
| ## | 3.0356469905 | -1.7886388423 | -0.8171452486 | -0.2651339635 | -0.2655756854 |

| | 1864 | 1866 | 1867 | 1868 | 1869 |
|----|---------------|---------------|---------------|---------------|---------------|
| ## | 0.6724412387 | -0.1198277770 | -0.8909627266 | 0.0364483128 | -0.6092973972 |
| ## | 1870 | 1871 | 1872 | 1875 | 1876 |
| ## | 0.5845636027 | -0.2421498789 | 0.1270494306 | -1.0233078334 | -0.4535326035 |
| ## | 1877 | 1878 | 1879 | 1880 | 1882 |
| ## | -1.8067528488 | 0.8069275471 | -0.0022499045 | 0.3235347836 | -0.3235290043 |
| ## | 1883 | 1885 | 1886 | 1887 | 1888 |
| ## | -0.9285344453 | -0.1636295511 | 0.3598380964 | -0.0210721067 | 0.1769039171 |
| ## | 1889 | 1890 | 1891 | 1894 | 1895 |
| ## | -1.1485124605 | 0.1893500609 | -0.1004298954 | 0.3352826917 | 0.1736482577 |
| ## | 1896 | 1897 | 1898 | 1899 | 1901 |
| ## | 0.4221494549 | -0.4021610759 | 0.2609206162 | -0.1028273281 | 0.3541432879 |
| ## | 1902 | 1904 | 1905 | 1906 | 1907 |
| ## | 0.1713092970 | -0.0150510391 | -1.1677798320 | 1.6259632992 | -0.1795727358 |
| ## | 1908 | 1909 | 1910 | 1913 | 1914 |
| ## | 0.3586227491 | 0.8058178825 | -2.5964473969 | 0.2638787355 | 0.3415342230 |
| ## | 1915 | 1916 | 1917 | 1918 | 1920 |
| ## | 0.2190057550 | -1.6866699743 | -0.2887120947 | -1.0227396994 | -0.7910637707 |
| ## | 1921 | 1923 | 1924 | 1925 | 1926 |
| ## | -0.4431210790 | 0.5681767575 | 0.4490659576 | -0.2128997552 | 0.2750146532 |
| ## | 1927 | 1928 | 1929 | 1932 | 1933 |
| ## | -1.0458573061 | 0.1761891419 | -0.5508428819 | 0.6114789257 | -0.2622824587 |
| ## | 1934 | 1935 | 1936 | 1937 | 1939 |
| ## | -0.3696625412 | -0.1899917467 | -0.2689395109 | 0.4758128484 | -0.8300382230 |
| ## | 1940 | 1942 | 1943 | 1944 | 1945 |
| ## | 1.1834502684 | 0.4624933679 | 0.2283400691 | -0.3217208016 | -0.4382671836 |
| ## | 1946 | 1947 | 1948 | 1951 | 1952 |
| ## | 0.0296574200 | -1.1769169583 | -0.7773075270 | -2.5327496334 | -0.2878950534 |
| ## | 1953 | 1954 | 1955 | 1956 | 1958 |
| ## | 0.2408957178 | 2.5673952103 | 0.1575852715 | 0.3679409241 | -0.4942076862 |
| ## | 1959 | 1961 | 1962 | 1963 | 1964 |
| ## | 0.1004561549 | 0.2817183315 | -0.5781845506 | -0.1588771041 | -0.6326246374 |
| ## | 1965 | 1966 | 1967 | 1970 | 1971 |
| ## | -0.1049886778 | 0.4150878856 | 1.4066220071 | 0.0183369540 | 0.5428536633 |
| ## | 1972 | 1973 | 1974 | 1975 | 1977 |
| ## | 0.3059985595 | -1.6077481578 | -0.2573450763 | -0.1289354173 | -0.2249494712 |
| ## | 1978 | 1980 | 1981 | 1982 | 1983 |
| ## | -0.4110910404 | -1.7060902905 | -0.0532863694 | 1.5312227928 | 0.3305944304 |
| ## | 1984 | 1985 | 1986 | 1989 | 1990 |
| ## | 0.1238969808 | -0.0194874778 | 0.3597882569 | 1.0346662425 | 0.0873194299 |
| ## | 1991 | 1992 | 1993 | 1994 | 1996 |
| ## | 0.0063392824 | 0.3394047284 | 0.5629018351 | 0.5707054007 | -0.0643115167 |
| ## | 1997 | 1999 | 2000 | 2001 | 2002 |
| ## | 0.1612992663 | 0.6039679188 | 0.2818571399 | 0.4817032712 | -0.5695052860 |
| ## | 2003 | 2004 | 2005 | 2008 | 2009 |
| ## | -0.5190251445 | 0.3754357370 | -0.1176068178 | 0.9849742859 | -1.3812574336 |
| ## | 2010 | 2011 | 2012 | 2013 | 2015 |
| ## | 0.7195412967 | 0.6419833723 | -0.4720658189 | -0.2274318384 | 0.0346581256 |
| ## | 2016 | 2018 | 2019 | 2020 | 2021 |
| ## | 0.3735619585 | 0.4768520847 | -0.7151402973 | 0.0540819259 | 0.3927004875 |
| ## | 2022 | 2023 | 2024 | 2027 | 2028 |
| ## | 0.2273568821 | -0.5161340623 | -1.4681829686 | 0.5328847115 | 0.1385559315 |
| ## | 2029 | 2030 | 2031 | 2032 | 2034 |
| ## | 2.0385525553 | 0.4470448866 | -0.1367444386 | 0.1708712976 | -0.2728576532 |

```

##      2035      2037      2038      2039      2040
## -0.3455132454 -0.3196709316  3.3588321360  0.2783343298  0.5661753496
##      2041      2042      2043      2046      2047
##  0.8908272310  0.9076838027 -0.6301522703 -1.0889901351 -1.2126313697
##      2048      2049      2050      2051      2053
## -0.0228010398  0.0564820602  0.0348361881 -0.7342236291 -1.0855634157
##      2054      2056      2057      2058      2059
##  0.4117437423  1.1144423352  0.1296361707 -1.1904354422  0.1780368212
##      2060      2061      2062      2065      2066
##  0.0673548166 -0.6063420518  0.0439268019  0.0999807529  0.4221092311
##      2067      2068      2069      2070      2072
##  0.7143647721 -0.2676907926  0.2881754698 -0.7068664316 -0.6375019371
##      2073      2075      2076      2077      2078
##  0.4996702310 -1.0477974824 -0.9231047385  0.5912742347  0.1248747165
##      2079      2080      2081      2084      2085
## -0.2525389933  0.0189716794  0.0391789262  0.3449849518 -0.0614274157
##      2086      2087      2088      2089      2091
##  1.2395313016 -0.6738947895  0.2980038552 -0.0908920631  0.0297790692
##      2092      2094      2095      2096      2097
##  0.4459979756  1.3200635428 -0.5855153498 -0.6526870069 -0.9423833803
##      2098      2099      2100      2103      2104
## -1.0590864123  0.8946067117  0.4762376446  1.7371869398 -2.0650794109
##      2105      2106      2107      2108      2110
## -1.1922956441  0.7446315767 -0.0734837474 -0.7643841828 -1.1010459309
##      2111      2113      2114      2115      2116
##  0.1429544379 -0.2361593882  0.2704430972 -0.2167564235  0.0027787316
##      2117      2118      2119      2122      2123
##  0.5746408916  0.4195698089  0.3376646001  0.0063226939  0.6559129101
##      2124      2125      2126      2127      2129
## -0.5890465004 -0.4422036065 -0.2547385681  0.0759207657 -2.2797438608
##      2130      2132      2133      2134      2135
##  0.2416674948 -0.0887759062  2.4641640019 -0.1779820695  0.4238761790
##      2136      2137      2138      2141      2142
## -0.0070730625 -0.5636870957  0.2940838788  0.2913483112 -0.0964387598
##      2143      2144      2145      2146      2148
## -0.4125385228 -1.3805048078 -0.8872491408  0.5942036913 -0.4912771988
##      2149      2151      2152      2153
## -0.3983122800 -0.2558283444 -0.4832578430 -0.3153710420
##
## [[1]]$effects
##      (Intercept)          KIDSDRV          HOMEKIDS
## -3.264890e+02  2.010018e-02 -6.820485e-02
##          Y0J          BLUEBOOK          OLDCLAIM
## -4.317241e-01  2.204385e+00 -3.199645e-01
##          CLM_FREQ          CAR_AGE          MSTATUS_Yes
## -8.622183e-01  4.506409e-01  1.164703e+00
##  CAR_TYPE_Panel.Truck    REVOKED_Yes EDUCATION_High.School
##  5.432956e-01 -6.577584e-01 -1.619987e-01
## EDUCATION_Bachelors EDUCATION_z_High.School      yojSquared
## -9.842144e-01 -1.586775e-01 -8.586433e-01
## bluebook_log        carage_log       mvr_pts_log
## -1.848687e+00 -5.969947e-01 -1.401845e+00
##          inter
## -1.118526e+00 -7.788903e-02  4.374816e-01

```

```

##          -5.684944e-01      -7.237910e-01      -8.320082e-01
##          8.234781e-01       5.050959e-01       3.108180e-01
##          3.537013e-01       4.348977e-01       -4.820501e-01
##          6.392001e-01       -8.634579e-01      8.269530e-01
##          1.363281e+00       1.003285e-01      9.513556e-02
##          1.099884e+00       -5.761586e-01      1.761296e-01
##          -1.185647e-01      3.592769e-03       2.905785e-01
##          5.885643e-01       -9.102775e-01      4.237154e-01
##          -9.956538e-01      -1.146371e+00     -5.449563e-01
##          4.397235e-01       1.067860e-01      8.258320e-01
##          -2.239381e-01      -9.041417e-02      6.466646e-01
##          2.813442e-01       1.097183e+00      2.999030e-01
##          2.882319e-01       -1.863679e-01     -3.741143e-01
##          -1.065015e-01      3.309662e-02       -1.251588e+00
##          1.618035e-01       2.665874e-01      1.707624e-01
##          -8.682096e-01      1.248421e+00     -7.005729e-01
##          1.003408e+00       -7.711525e-01      2.054362e-01
##          3.828394e-02       4.158809e-01     -2.847974e-01
##          6.505130e-03       2.691244e-01      5.477018e-01
##          -3.439597e-01      -9.360141e-01     -4.661873e-03
##          7.423353e-01       4.438577e-01      6.288422e-01
##          8.990004e-01       -4.934315e-01      9.245371e-02
##          1.900065e-01       1.439578e-01      3.183016e-01
##          6.159982e-02       1.470777e+00     -7.294574e-01
##          -6.723591e-01      -8.166150e-01     -1.009713e+00
##          3.846322e-01       -6.155704e-01     -1.093957e-01
##          5.910122e-01       1.208452e+00      1.789545e-01

```

```

##          -1.185826e+00      -1.563515e-01      -8.526111e-01
##          -3.714883e-03       2.080336e-01       8.284492e-01
##          3.447912e-02      -1.364385e-01      -5.955436e-01
##          3.405928e-01       1.203338e+00       8.382781e-01
##          1.090406e-01       8.609767e-01       3.915391e-01
##          3.119973e-01      1.943861e-01      -2.686660e-01
##          1.196014e+00      -3.661544e-03      -9.466033e-01
##          2.923970e-01      3.651674e-01       4.491662e-01
##          -3.391003e-01     2.201757e-01      -1.031736e+00
##          2.719228e-01      7.451382e-01       2.415460e-01
##          2.861292e-01      -5.232835e-01      -3.580126e-01
##          6.504846e-01      -9.094185e-01      -2.233931e-01
##          -3.158602e-01     -3.587603e-05      -6.971571e-02
##          -2.349888e-02      6.773250e-01       5.695782e-01
##          1.518869e-01      5.504525e-01       1.233173e+00
##          -9.526613e-01     8.200819e-02      -5.497509e-01
##          5.053265e-01      -5.775724e-01       4.963015e-01
##          -1.527821e-01     -1.594686e-01       1.154502e+00
##          4.777463e-01      -1.588223e-01      -4.056609e-01
##          2.175418e-01      8.971556e-01      -6.762843e-01
##          -9.092377e-01     4.607674e-01       1.704621e-01
##          -2.668037e-02      8.171605e-01       5.221080e-01
##          -6.498092e-02      -1.507250e-01      1.963981e-01
##          -4.802848e-01      1.250903e+00       5.125867e-02
##          8.609397e-01      5.062244e-01      -7.113200e-02
##          -1.220690e-01     -3.354980e-02      -4.157879e-01
##          -3.040722e-01     1.029879e+00       5.231077e-01

```

| | | | |
|----|---------------|---------------|---------------|
| ## | | | |
| ## | -5.495638e-02 | 1.901136e-01 | -3.622613e-01 |
| ## | | | |
| ## | -7.634808e-01 | 6.261416e-01 | 2.157114e-02 |
| ## | | | |
| ## | 6.477675e-02 | -9.181834e-01 | -1.283041e-01 |
| ## | | | |
| ## | 4.103161e-01 | -1.873295e-01 | -9.490176e-01 |
| ## | | | |
| ## | 4.257398e-01 | 1.201066e+00 | 1.379513e+00 |
| ## | | | |
| ## | 3.217877e-01 | 2.335679e-01 | -2.376408e-02 |
| ## | | | |
| ## | -9.923874e-01 | 4.235037e-01 | -1.351407e-01 |
| ## | | | |
| ## | 1.592276e-01 | 5.314003e-01 | 1.261737e-01 |
| ## | | | |
| ## | -6.049463e-02 | -3.136725e-01 | -2.870668e-01 |
| ## | | | |
| ## | -3.940602e-01 | 7.191362e-01 | -7.335737e-02 |
| ## | | | |
| ## | -6.328907e-01 | -6.515478e-01 | 5.278394e-02 |
| ## | | | |
| ## | 1.173440e+00 | 1.250942e+00 | -8.592854e-01 |
| ## | | | |
| ## | -3.452746e-02 | -7.285245e-01 | -4.339419e-01 |
| ## | | | |
| ## | -1.747770e-01 | 2.769605e-01 | 2.465694e-01 |
| ## | | | |
| ## | -3.285614e-02 | 6.949144e-01 | 8.636995e-01 |
| ## | | | |
| ## | 7.528542e-01 | 6.940018e-02 | 4.321762e-02 |
| ## | | | |
| ## | -3.317894e-01 | 5.732544e-01 | 1.120555e+00 |
| ## | | | |
| ## | -9.459870e-01 | 6.423313e-03 | 4.130068e-01 |
| ## | | | |
| ## | 6.002754e-01 | 3.063820e-01 | -2.919865e-01 |
| ## | | | |
| ## | 6.569847e-02 | 5.250372e-01 | 8.466306e-02 |
| ## | | | |
| ## | -2.791877e-01 | -1.076972e+00 | 3.437067e-01 |
| ## | | | |
| ## | -1.524594e-01 | 1.855700e-01 | 3.966351e-01 |
| ## | | | |
| ## | 5.889670e-01 | 2.257843e-01 | -7.771732e-01 |
| ## | | | |
| ## | 7.372390e-01 | -1.690529e-01 | 3.103738e-01 |
| ## | | | |
| ## | -1.072819e+00 | 4.144272e-01 | -8.245731e-02 |
| ## | | | |
| ## | -3.687032e-01 | -9.620684e-01 | -3.488661e-01 |
| ## | | | |
| ## | -5.100461e-02 | 1.402480e+00 | 2.485690e-01 |

```

##          3.748757e-01      -2.983918e-01      2.574430e-01
##          9.493641e-01       2.868254e-01     -7.094626e-01
##         -3.066341e-01     -7.946886e-01      2.283129e-01
##          9.865462e-01      8.778333e-01      6.985311e-02
##          4.120254e-01      4.111129e-01     -1.288465e+00
##         -6.820691e-01     -9.172701e-02     -2.629530e-01
##         -5.272712e-01      2.531658e-01      1.212780e+00
##          4.771794e-01     -7.650214e-01      3.772832e-01
##         -6.040202e-01      3.641335e-01      8.547153e-02
##          6.415217e-01     -8.718588e-01      1.078788e+00
##          6.838954e-01      2.221638e-01      5.910461e-02
##          3.127601e-01      4.966743e-01     -1.869571e-01
##         -1.164066e-02      5.905936e-02     -1.385210e+00
##         -1.315147e-01     -8.961433e-01     -8.059261e-01
##         -8.948815e-02     -9.572514e-01      3.939126e-02
##          2.229303e-01     -8.517766e-01      2.414647e-01
##         -7.042905e-01     -2.162565e-01      4.099437e-01
##          5.578180e-01      1.189539e-02      4.417527e-01
##         -9.410234e-02     -1.814062e-01     -1.519656e-01
##         -1.292035e-01      3.235158e-01     -8.723779e-02
##         -6.944122e-01     -3.067332e-01     -2.562091e-01
##          8.331026e-01     -7.683217e-01     -3.219605e-01
##         -1.528948e+00     -1.779937e-01      5.637557e-02
##         -8.505395e-01      4.523720e-01     -1.258992e+00
##          1.750709e-02     -2.299613e-03      6.317270e-01
##         -5.734861e-01     -5.526334e-01     -1.126256e+00
##          9.302669e-01      3.582897e-01      6.749205e-02

```

| | | | |
|----|---------------|---------------|---------------|
| ## | | | |
| ## | 7.691374e-01 | -8.313512e-01 | 4.310795e-01 |
| ## | | | |
| ## | -1.183167e-01 | -8.542500e-01 | 9.899998e-01 |
| ## | | | |
| ## | -2.043100e-01 | 1.373592e+00 | 1.304760e+00 |
| ## | | | |
| ## | 6.348689e-01 | 1.199081e-01 | -9.374766e-01 |
| ## | | | |
| ## | -1.196269e-01 | 1.309592e-01 | -1.339227e-02 |
| ## | | | |
| ## | 1.143442e+00 | -1.309229e+00 | 3.189552e-01 |
| ## | | | |
| ## | 8.400037e-01 | -6.808273e-01 | -1.184240e-01 |
| ## | | | |
| ## | -2.847959e-01 | 5.464787e-01 | -1.741861e-01 |
| ## | | | |
| ## | 8.265979e-03 | 3.565457e-01 | -8.563766e-02 |
| ## | | | |
| ## | 1.130212e-01 | -1.075095e+00 | 1.025797e-01 |
| ## | | | |
| ## | -8.908925e-01 | -2.560519e-01 | -5.560550e-01 |
| ## | | | |
| ## | -1.227601e+00 | -1.117168e+00 | 6.118972e-01 |
| ## | | | |
| ## | -2.131779e-01 | 1.690558e-02 | -4.204808e-03 |
| ## | | | |
| ## | 1.456766e+00 | 4.383930e-01 | 2.715238e-01 |
| ## | | | |
| ## | -2.414449e-01 | -1.154397e-01 | -5.933880e-02 |
| ## | | | |
| ## | 9.369707e-01 | 8.461679e-02 | 3.241727e-01 |
| ## | | | |
| ## | -1.126995e+00 | -7.177699e-01 | 4.661164e-01 |
| ## | | | |
| ## | 1.139714e+00 | 3.357968e-02 | -3.403224e-01 |
| ## | | | |
| ## | 2.411903e-01 | -5.709256e-01 | 3.366342e-01 |
| ## | | | |
| ## | -1.391718e+00 | -4.885067e-01 | 1.184896e-01 |
| ## | | | |
| ## | 7.024121e-01 | 9.007371e-01 | 3.625347e-02 |
| ## | | | |
| ## | 2.824254e-01 | 5.230399e-01 | -1.738427e-01 |
| ## | | | |
| ## | -3.434569e-01 | 1.058391e+00 | 1.815164e-01 |
| ## | | | |
| ## | 7.873621e-01 | 5.231027e-01 | -1.179536e-01 |
| ## | | | |
| ## | 3.886976e-01 | 4.182725e-01 | -2.558897e-01 |
| ## | | | |
| ## | -1.297781e-01 | -2.996104e-02 | -3.304828e-01 |
| ## | | | |
| ## | 8.737839e-03 | 2.219854e-01 | 3.036223e-01 |

```

##          6.620172e-01      6.454553e-01      -1.381201e+00
##          -9.380672e-01     6.077570e-02      -5.045393e-01
##          3.341588e-01      4.553384e-01      1.674585e-01
##          -1.164664e+00     -6.309531e-01     -3.012621e-01
##          -8.074033e-02     -4.689482e-01     -9.386092e-01
##          -1.178940e-01     1.149265e-01     -8.166603e-01
##          -7.419513e-02     -2.370136e-01     8.240902e-01
##          -6.794880e-01     -1.059258e-01     7.685263e-01
##          -2.944804e-01     -1.430959e-01     2.373335e-02
##          -8.634375e-02     7.363868e-01      1.851255e-01
##          -1.126650e+00     -1.184269e-01     1.985960e-01
##          -2.146061e-01     8.705806e-01      -8.285052e-01
##          2.696915e-01      4.806138e-01      3.718356e-01
##          -4.403606e-01     8.774921e-01      3.205020e-01
##          -2.920744e-01     -5.148370e-01     -1.729381e-01
##          4.640815e-01      5.587370e-01      -1.310830e+00
##          1.134921e+00     -3.536289e-01     4.051186e-01
##          2.538675e-01      -4.237538e-02     -9.777237e-01
##          -1.948815e-01     8.868120e-01      2.855486e-01
##          -3.913826e-01     -6.340974e-01     1.325420e-01
##          -9.423099e-01     6.382779e-01      6.510748e-01
##          -1.490310e-01     1.129970e+00     2.857527e-01
##          -1.195252e-01     -3.241424e-01     4.497785e-01
##          -6.965170e-01     -1.252937e+00     1.285372e-01
##          8.176031e-01      -4.257442e-01     -9.453736e-02
##          2.038195e-01      -2.502547e-01     4.976982e-01
##          1.492953e+00      8.893719e-02      -1.116105e+00

```

| | | | |
|----|---------------|---------------|---------------|
| ## | | | |
| ## | 4.732850e-01 | 2.805508e-01 | -4.341169e-01 |
| ## | | | |
| ## | -2.280637e-02 | 5.666219e-01 | 3.251506e-01 |
| ## | | | |
| ## | 1.425211e+00 | -3.016687e-01 | 3.642226e-01 |
| ## | | | |
| ## | 4.638353e-01 | 4.339920e-01 | 1.060264e+00 |
| ## | | | |
| ## | -1.399787e-01 | -9.308895e-01 | 5.611574e-01 |
| ## | | | |
| ## | 1.327507e+00 | -4.853706e-01 | 3.875218e-01 |
| ## | | | |
| ## | 1.343024e+00 | -3.472121e-01 | 1.666584e-01 |
| ## | | | |
| ## | -6.771248e-01 | 5.773864e-01 | 1.209101e-02 |
| ## | | | |
| ## | 3.196547e-01 | -5.644255e-02 | 9.728141e-02 |
| ## | | | |
| ## | -4.262534e-01 | 1.026234e+00 | -2.206522e-01 |
| ## | | | |
| ## | 1.426991e+00 | -8.031732e-03 | 7.802537e-01 |
| ## | | | |
| ## | 3.396421e-01 | -3.919506e-01 | -4.774814e-01 |
| ## | | | |
| ## | 3.549600e-01 | 5.633505e-01 | 6.007237e-01 |
| ## | | | |
| ## | 5.691949e-01 | -3.654426e-01 | 4.513926e-01 |
| ## | | | |
| ## | -1.692908e-01 | 3.241856e-01 | 2.379931e-01 |
| ## | | | |
| ## | -1.577710e-01 | -1.676788e-01 | -2.484823e-01 |
| ## | | | |
| ## | -9.407466e-01 | 2.946917e-01 | -1.428937e-01 |
| ## | | | |
| ## | 9.981460e-01 | -1.527842e-01 | 5.418251e-01 |
| ## | | | |
| ## | -1.688754e-01 | 5.123124e-01 | -2.079727e-01 |
| ## | | | |
| ## | 2.760867e-01 | 2.695506e-01 | -1.505285e-01 |
| ## | | | |
| ## | -7.961533e-01 | -1.089175e+00 | -8.840641e-01 |
| ## | | | |
| ## | -8.164986e-01 | -1.445646e-01 | 3.436352e-01 |
| ## | | | |
| ## | 2.863320e-03 | 5.819659e-01 | 8.448662e-01 |
| ## | | | |
| ## | -1.000529e+00 | 4.346163e-01 | -4.076768e-01 |
| ## | | | |
| ## | 4.715195e-01 | -1.294049e-01 | -6.734292e-01 |
| ## | | | |
| ## | -7.163346e-01 | 9.636281e-01 | -1.120908e+00 |
| ## | | | |
| ## | 8.509904e-01 | -8.430757e-01 | 1.090518e-01 |

| | | | |
|----|---------------|---------------|---------------|
| ## | | | |
| ## | -7.615257e-01 | 3.111454e-01 | -7.410535e-01 |
| ## | | | |
| ## | -1.087396e-01 | 4.314000e-01 | 9.318283e-01 |
| ## | | | |
| ## | 1.954059e-01 | 1.322031e+00 | -8.920351e-01 |
| ## | | | |
| ## | -2.809973e-01 | 5.641749e-01 | 1.041960e+00 |
| ## | | | |
| ## | -1.920416e-01 | 4.705585e-01 | -9.537868e-01 |
| ## | | | |
| ## | -1.700342e-01 | 4.338867e-01 | -4.965895e-01 |
| ## | | | |
| ## | 1.224125e+00 | -2.132346e-01 | -1.055605e+00 |
| ## | | | |
| ## | -7.275065e-01 | 1.276373e+00 | -1.107068e+00 |
| ## | | | |
| ## | 3.826400e-02 | -1.066208e+00 | 1.250743e+00 |
| ## | | | |
| ## | -3.445413e-01 | 1.355473e+00 | -1.690966e-01 |
| ## | | | |
| ## | -9.649651e-01 | 4.611873e-01 | -3.595079e-01 |
| ## | | | |
| ## | -5.453131e-01 | 2.797630e-01 | -7.116660e-01 |
| ## | | | |
| ## | -6.195300e-01 | 3.458686e-01 | 2.132738e-01 |
| ## | | | |
| ## | -1.145602e-01 | -3.621071e-01 | -3.488049e-01 |
| ## | | | |
| ## | 2.075536e-01 | 2.881869e-03 | -3.960622e-01 |
| ## | | | |
| ## | 5.056255e-01 | -8.586546e-01 | -4.592431e-01 |
| ## | | | |
| ## | 4.723543e-01 | -2.722918e-02 | 1.415285e+00 |
| ## | | | |
| ## | -9.458863e-01 | 6.907884e-01 | -1.594120e-02 |
| ## | | | |
| ## | 2.645099e-01 | -1.034571e+00 | -6.327983e-01 |
| ## | | | |
| ## | -1.179661e-01 | 9.861323e-02 | -5.766222e-04 |
| ## | | | |
| ## | 6.278182e-01 | -2.522321e-01 | 1.914915e-01 |
| ## | | | |
| ## | -7.251155e-01 | -8.042467e-01 | 9.827884e-01 |
| ## | | | |
| ## | -2.021865e-01 | -5.391388e-01 | -1.469197e-01 |
| ## | | | |
| ## | -4.651262e-01 | 8.567119e-02 | 7.100556e-03 |
| ## | | | |
| ## | 7.229602e-01 | -1.992200e-01 | -6.169215e-01 |
| ## | | | |
| ## | 4.266678e-01 | -6.617685e-01 | -1.270088e-01 |
| ## | | | |
| ## | -1.075662e+00 | -5.215371e-01 | -3.737535e-01 |

```

##          9.648459e-01      -1.061670e+00      1.077123e+00
##          -8.411531e-01       7.818427e-02      8.090228e-01
##          -1.776468e-01      1.220373e+00      3.340521e-01
##          4.288572e-01      -3.363877e-02     -1.194850e+00
##          2.358731e-01      -4.843776e-01     -9.533256e-01
##          -3.110268e-01      7.110504e-02     -3.983247e-01
##          8.672206e-01      -6.515015e-01      4.910325e-01
##          -6.810287e-01      -1.040171e+00     -9.860280e-01
##          1.061972e+00      -1.040233e+00      5.862372e-01
##          2.233826e-02      -1.097587e+00     -2.187672e-01
##          -7.789084e-01      6.129814e-01     -3.540580e-01
##          4.393838e-01      3.701606e-01      5.290364e-02
##          1.073972e+00      -1.014177e+00      4.084152e-01
##          -4.063233e-01      -3.286971e-01     -6.601236e-01
##          3.232288e-01      1.173218e-01      3.289958e-01
##          7.301392e-01      -3.623235e-01     -3.310785e-01
##          2.237576e-01      3.615956e-01     -7.076246e-02
##          -5.947782e-02      3.743241e-01     -1.223512e+00
##          5.142785e-01      -4.984573e-01     -3.036674e-01
##          -1.136293e+00      2.368365e-01      1.253513e-01
##          -1.574726e-02      5.533174e-01     -5.375010e-01
##          1.079868e+00      -7.437481e-02      3.255614e-01
##          -9.123157e-02      -1.962494e-01      7.377033e-01
##          2.714517e-01      -3.626105e-01      4.077077e-01
##          -1.455666e+00      6.078191e-01      1.030823e-01
##          -1.700305e+00      1.662979e-01      2.063126e-01
##          -1.622466e+00      -1.028336e+00     -7.435691e-01

```

| | | | |
|----|---------------|---------------|---------------|
| ## | | | |
| ## | -3.467897e-01 | -4.764381e-02 | -1.672740e-01 |
| ## | | | |
| ## | -8.810228e-01 | 8.287577e-01 | 2.824887e-01 |
| ## | | | |
| ## | -4.469342e-01 | 4.525664e-01 | -4.140272e-01 |
| ## | | | |
| ## | 1.487633e-01 | 1.191583e-01 | 4.394715e-01 |
| ## | | | |
| ## | 1.098397e-01 | -1.054929e+00 | -2.990326e-01 |
| ## | | | |
| ## | -6.457997e-01 | 5.764411e-01 | -2.705499e-01 |
| ## | | | |
| ## | -5.779978e-01 | 7.549609e-01 | 1.892867e-01 |
| ## | | | |
| ## | -4.468808e-01 | -2.224890e-01 | -2.284711e-01 |
| ## | | | |
| ## | 6.218256e-02 | -2.493736e-01 | 4.451949e-01 |
| ## | | | |
| ## | 1.281227e+00 | -2.861612e-01 | 3.761570e-01 |
| ## | | | |
| ## | -7.006814e-01 | 3.297960e-01 | 6.083850e-01 |
| ## | | | |
| ## | -1.047187e-01 | 1.217673e+00 | 7.097670e-02 |
| ## | | | |
| ## | -4.070309e-01 | -9.633695e-01 | 1.107008e-01 |
| ## | | | |
| ## | -1.944348e-01 | -3.341675e-01 | 3.251425e-01 |
| ## | | | |
| ## | -7.665421e-01 | 3.937749e-01 | -7.660290e-01 |
| ## | | | |
| ## | -6.052710e-01 | 2.044887e-01 | 3.718152e-01 |
| ## | | | |
| ## | 5.725547e-01 | 5.488888e-01 | 2.160672e-01 |
| ## | | | |
| ## | 8.987639e-02 | -2.801125e-02 | 2.159180e-01 |
| ## | | | |
| ## | -4.507927e-01 | 4.080807e-01 | 1.538665e-01 |
| ## | | | |
| ## | 3.080177e-01 | -9.553825e-01 | -9.894525e-01 |
| ## | | | |
| ## | -4.611368e-01 | -6.313088e-01 | 1.486571e-02 |
| ## | | | |
| ## | 5.395446e-01 | 5.225814e-01 | -1.366438e+00 |
| ## | | | |
| ## | -8.655791e-01 | 2.893767e-01 | -9.212939e-01 |
| ## | | | |
| ## | 5.187660e-01 | 2.827603e-01 | -3.311553e-01 |
| ## | | | |
| ## | -4.170065e-01 | -6.153307e-01 | 4.875625e-01 |
| ## | | | |
| ## | 3.626620e-01 | -1.266021e-01 | -2.462073e-02 |
| ## | | | |
| ## | 8.583211e-01 | -1.082452e+00 | 1.358281e-01 |

```

##          -8.865510e-01      -1.017621e+00      -2.087423e-01
##          2.767545e-01      -1.495453e-01      2.305445e-01
##          -9.809797e-01      -7.128957e-01      6.166100e-01
##          2.085679e-01      1.275754e-01      1.340282e+00
##          9.357821e-01      6.063399e-01      4.898760e-02
##          3.815910e-01      -3.343873e-01      3.022867e-01
##          -3.370201e-01      -9.072715e-01      -8.727927e-01
##          -5.243875e-01      9.551018e-02      2.369211e-01
##          -1.494909e-01      -8.817677e-01      2.244016e-03
##          4.066649e-01      7.398491e-02      -8.858910e-01
##          2.421305e-01      1.308247e+00      -2.275545e-01
##          1.083018e+00      -7.631172e-01      1.080754e+00
##          -8.942339e-02      -1.020720e+00      -1.403054e-01
##          -7.117471e-02      4.817730e-02      1.854846e-01
##          -1.715708e-01      -1.319138e-01      -4.417024e-01
##          5.450617e-01      -6.615431e-01      2.275137e-01
##          3.309784e-01      2.747167e-01      -2.120164e-01
##          -6.616095e-01      -5.623607e-01      1.677294e-01
##          1.464763e-01      6.225155e-02      -7.689858e-01
##          3.104747e-01      3.697256e-01      -1.005197e-01
##          2.883150e-01      4.367095e-01      3.379913e-01
##          -6.921802e-01      -9.052342e-01      1.191532e+00
##          1.433354e+00      2.748060e-01      1.544885e-01
##          -2.430934e-01      6.595289e-01      5.590834e-01
##          -1.104685e+00      2.494051e-01      2.040281e-01
##          6.381472e-01      -1.540231e-02      -1.033156e+00
##          1.616779e-02      -7.463759e-01      -1.049537e+00

```

```

##          -9.252697e-01      4.652911e-01      2.729817e-01
##          -3.298091e-01      -3.976601e-01      9.256436e-02
##          1.846264e-01       5.437463e-01      6.164408e-01
##          6.315725e-01       -5.902173e-01     -5.332963e-01
##          -7.593740e-01      5.861734e-02      3.087227e-01
##          2.892165e-01       -3.622387e-01     3.978982e-02
##          4.748980e-01       6.240137e-01      9.571682e-02
##          -1.129449e+00      2.577957e-01      2.588619e-01
##          -8.994758e-01       -1.044625e-01    -7.777568e-01
##          -1.119058e+00      -5.378035e-01     2.507736e-01
##          1.204560e+00       -1.624081e-01     4.234452e-01
##          6.754973e-01       1.469260e+00      5.778861e-01
##          -5.321417e-02      -1.027982e+00     1.001550e+00
##          -1.002999e+00      1.244881e+00      -7.900748e-01
##          7.680780e-01       5.469735e-02      3.707910e-01
##          5.845555e-01       7.460884e-01      9.125636e-01
##          -5.176892e-01      2.848160e-01      -7.927816e-01
##          4.955634e-01       4.789780e-01      4.472027e-01
##          -7.478688e-01      1.363907e-01      2.999787e-01
##          1.884710e-01       3.396876e-01      3.808739e-01
##          -2.892941e-01      6.117437e-01      5.042015e-01
##          1.074516e-01       4.450201e-01      1.861074e-01
##          -7.071739e-01      1.016315e-01      -6.157925e-01
##          -1.699835e-01      4.971577e-01      -6.646693e-02
##          6.306071e-01       5.527779e-02      8.016046e-01
##          7.041419e-01       -7.411107e-01     3.241981e-01
##          -8.906551e-01      8.289700e-01      -7.070246e-01

```

```

##          -4.684187e-01      9.941925e-01      3.314458e-01
##          -6.290092e-01     -1.147440e+00      5.139783e-01
##          1.833391e-01      7.686345e-01     -9.643394e-01
##          -3.052776e-02      3.956906e-02     -7.936858e-01
##          7.730931e-01      5.246027e-01      6.116041e-01
##          6.293717e-01     -4.882752e-01      8.885816e-02
##          1.641786e-01      5.808190e-01     -3.544627e-01
##          3.265961e-01     -2.020320e-01     -2.624990e-01
##          1.070102e+00      4.157890e-01      5.442756e-02
##          -8.114650e-01     -1.977212e-01      5.341334e-01
##          1.883442e-01     -5.998276e-01      6.020808e-01
##          5.319468e-01      7.394172e-01      6.873594e-01
##          -3.104919e-01     -5.481673e-01      9.343577e-02
##          2.859742e-01     -3.581750e-02     -1.395751e-01
##          1.711073e-01     -3.411754e-01     -4.079892e-01
##          -9.934060e-02      1.786337e-01      2.061468e-01
##          7.581542e-01      6.871075e-01      2.724182e-01
##          4.217861e-01     -7.520079e-01      9.394547e-01
##          -1.428400e-03      4.076501e-01      2.959986e-01
##          -9.013444e-01     -3.512674e-01      6.001108e-01
##          -7.027260e-01     -1.883892e-01      5.063357e-02
##          3.229216e-01     -1.032290e-01     -1.124061e-01
##          -4.097834e-01     -1.119074e+00      1.043777e-01
##          -5.093495e-01      3.427678e-01      1.146742e+00
##          7.518405e-01      8.514415e-01      5.254733e-01
##          1.936544e-01      1.985351e-01      1.992552e-01
##          1.532536e+00     -4.420294e-01     -6.405970e-01

```

| | | | |
|----|---------------|---------------|---------------|
| ## | | | |
| ## | 1.970343e-01 | 1.264721e-01 | 1.219348e-02 |
| ## | | | |
| ## | 8.697664e-01 | 4.891818e-02 | -3.628521e-01 |
| ## | | | |
| ## | 1.423194e-01 | 7.271505e-02 | 3.607663e-01 |
| ## | | | |
| ## | 1.115225e-01 | -5.008515e-01 | 2.890822e-01 |
| ## | | | |
| ## | -9.844208e-01 | -1.821175e+00 | -7.583135e-01 |
| ## | | | |
| ## | -4.103607e-01 | -6.673599e-01 | -1.091954e+00 |
| ## | | | |
| ## | -9.340107e-01 | -1.084860e+00 | -9.383581e-02 |
| ## | | | |
| ## | 3.721770e-01 | -5.162652e-01 | -8.242081e-02 |
| ## | | | |
| ## | 1.407307e+00 | -1.345749e-01 | 3.265202e-01 |
| ## | | | |
| ## | -9.947453e-02 | 3.874165e-01 | 7.812101e-01 |
| ## | | | |
| ## | -5.248286e-01 | 4.047055e-01 | -1.912521e-01 |
| ## | | | |
| ## | -2.380568e-01 | -8.278649e-01 | 1.599642e-01 |
| ## | | | |
| ## | -4.565922e-01 | 3.464834e-02 | 3.030771e-01 |
| ## | | | |
| ## | 1.359822e-01 | -7.843560e-01 | 9.102976e-02 |
| ## | | | |
| ## | -5.380396e-01 | 3.935370e-01 | -1.050475e+00 |
| ## | | | |
| ## | -3.213048e-01 | -1.984932e-01 | 4.431127e-01 |
| ## | | | |
| ## | 3.747635e-01 | 6.740282e-01 | 6.307565e-01 |
| ## | | | |
| ## | -4.526174e-01 | -6.483791e-01 | -5.257890e-01 |
| ## | | | |
| ## | 1.572193e+00 | 2.882154e-01 | 3.438444e-01 |
| ## | | | |
| ## | 1.017717e+00 | 2.341738e-01 | 1.959036e-01 |
| ## | | | |
| ## | 1.070878e-01 | -6.052040e-01 | -1.050616e+00 |
| ## | | | |
| ## | 2.546193e-01 | -1.256097e-01 | -1.865505e-01 |
| ## | | | |
| ## | 1.836837e-01 | 9.035375e-02 | 2.514784e-01 |
| ## | | | |
| ## | 1.849222e-02 | 5.115623e-01 | -1.164560e+00 |
| ## | | | |
| ## | 4.169473e-01 | 2.320953e-01 | -3.458615e-01 |
| ## | | | |
| ## | -3.224317e-01 | -1.650665e-01 | 8.595857e-02 |
| ## | | | |
| ## | -6.102318e-01 | 1.320660e+00 | -1.085317e+00 |

| | | | |
|----|---------------|---------------|---------------|
| ## | | | |
| ## | -2.857346e-01 | 2.172050e-01 | -5.110030e-02 |
| ## | | | |
| ## | 3.411640e-01 | -2.774976e-01 | -5.719432e-01 |
| ## | | | |
| ## | -1.127879e+00 | -1.148655e+00 | 1.242902e+00 |
| ## | | | |
| ## | 8.699317e-01 | 1.161890e+00 | -1.164683e-01 |
| ## | | | |
| ## | 7.014716e-01 | 1.351275e-01 | -7.992499e-02 |
| ## | | | |
| ## | 1.951874e-01 | 8.625912e-01 | -8.608059e-01 |
| ## | | | |
| ## | 1.038050e+00 | -8.370262e-01 | 7.743442e-01 |
| ## | | | |
| ## | 4.814536e-02 | -9.724834e-02 | -7.571049e-01 |
| ## | | | |
| ## | -5.781408e-01 | 2.357901e-01 | 2.750369e-01 |
| ## | | | |
| ## | 2.166977e-01 | 2.593375e-01 | 5.498199e-01 |
| ## | | | |
| ## | -6.146007e-02 | 1.208105e+00 | 4.026098e-01 |
| ## | | | |
| ## | 1.209546e+00 | 7.450974e-01 | 3.796986e-01 |
| ## | | | |
| ## | 2.910789e-01 | -8.470280e-01 | 6.576291e-01 |
| ## | | | |
| ## | -4.417070e-01 | 1.537411e-01 | -9.825769e-02 |
| ## | | | |
| ## | -4.501311e-01 | 5.588731e-02 | 1.185452e+00 |
| ## | | | |
| ## | -3.376577e-02 | -3.958779e-01 | -3.555135e-01 |
| ## | | | |
| ## | -3.239830e-01 | 2.957822e-01 | 3.842256e-01 |
| ## | | | |
| ## | -1.123525e+00 | -6.482345e-01 | 1.492072e-01 |
| ## | | | |
| ## | -4.527619e-01 | -1.141928e+00 | 6.901633e-01 |
| ## | | | |
| ## | 1.402773e+00 | 3.894601e-01 | -1.636379e-01 |
| ## | | | |
| ## | -2.658449e-01 | -4.932265e-01 | -1.044679e+00 |
| ## | | | |
| ## | -4.699240e-01 | -7.827551e-01 | 2.956527e-01 |
| ## | | | |
| ## | 7.173263e-01 | 2.552177e-01 | 2.952106e-01 |
| ## | | | |
| ## | 1.415261e+00 | 4.688391e-01 | 3.048566e-01 |
| ## | | | |
| ## | 1.298093e-02 | -3.702202e-01 | 7.765690e-01 |
| ## | | | |
| ## | 4.061514e-01 | -8.503632e-01 | 1.792444e-01 |
| ## | | | |
| ## | 3.249203e-02 | -8.924538e-01 | 1.977196e-01 |

```

##          2.987197e-02      -2.478479e-01      -4.066690e-02
##          5.351025e-01      -5.452196e-01      -1.070189e+00
##          8.790218e-01      5.092909e-01       5.941857e-01
##          3.935825e-01      3.613696e-02      -1.437134e+00
##          1.045632e+00      1.261113e+00      2.382281e-01
##          -8.907839e-01     -1.060412e+00      1.061230e+00
##          -2.860675e-01     -2.530871e-01      8.622105e-01
##          -6.780689e-02      1.171784e+00      -1.151612e-01
##          -1.001539e+00      3.719067e-01      -5.798935e-01
##          3.100266e-01       -3.980074e-01      -7.284749e-01
##          -2.409944e-02      -7.183310e-02      4.309772e-02
##          -3.036581e-01      -6.634140e-01      -8.972585e-01
##          -1.816771e-01      -3.192392e-01      7.152547e-02
##          2.380306e-01       1.215727e-01      -1.008702e+00
##          -4.096325e-01      -1.380679e-02      -2.049877e-01
##          -9.015866e-01      -9.722879e-01      7.276247e-01
##          1.140826e+00       4.280532e-01      -3.798202e-02
##          3.373619e-02       1.500247e-01      -1.312132e-01
##          -5.896661e-01      4.019620e-01      2.370295e-01
##          1.450172e+00       2.865690e-01      -2.895148e-02
##          -7.893519e-01      -2.563656e-01      -2.752583e-01
##          5.376664e-01       -1.589250e-01      -7.338156e-01
##          3.204389e-01       1.142163e-01      -3.417196e-01
##          -8.738019e-01      -1.734960e-01      8.960655e-02
##          -2.267169e-01      -1.501741e-01      1.277323e-01
##          1.647162e-01       6.460284e-01      -6.916698e-01
##          7.804941e-02       -1.110239e+00      2.470653e-01

```

```

##          5.378651e-01      3.324737e-02      1.787097e-01
##          3.752267e-02     -9.666098e-02      7.633533e-01
##          1.234017e-01      1.241336e+00      2.858829e-01
##          4.082225e-01      2.881932e-01     -9.152444e-01
##         -1.109318e+00      1.878266e-01      2.570275e-01
##          1.653008e-01     -7.952389e-01      8.690896e-01
##         -3.352154e-01     -1.948137e-01     -6.326253e-01
##         -6.294613e-01      8.516534e-01      4.937169e-01
##         -3.692299e-02     -3.382020e-01      4.771443e-02
##          5.662878e-01     -1.190510e-01     -1.589064e-01
##          7.641211e-01     -9.313107e-01     -4.507058e-01
##         -3.894010e-01      7.744283e-01      6.989155e-01
##         -1.334399e-01     -1.017359e+00      5.289301e-01
##         -2.340621e-01     -8.240696e-01      3.557145e-01
##          7.784591e-01     -1.295024e+00      8.210891e-01
##          4.575977e-01      2.606258e-02      7.299616e-03
##         -2.835888e-01      3.474235e-01     -1.265951e-01
##         -1.483675e+00      5.940195e-01     -7.365855e-01
##         -2.489516e-01     -6.401961e-01      2.316240e-01
##         -1.267406e-01      7.454673e-01      8.175708e-01
##          1.052582e-01     -6.985688e-01     -4.240219e-01
##         -1.927273e+00      3.562039e-01     -4.793250e-01
##          6.661403e-01     -8.890671e-01      6.065330e-01
##          7.148518e-01     -5.810986e-01      4.301568e-01
##         -3.641983e-01     -1.469434e-02      1.381577e+00
##         -1.221866e-02     -8.450794e-01     -6.181254e-01
##         -9.988715e-02      1.060876e+00     -3.000600e-01

```

```

##          2.934315e-01      -1.962299e-01      3.166776e-01
##          -1.512191e-01       1.117102e+00      1.255413e+00
##          1.050868e+00      -3.330939e-01      -7.723829e-01
##          -4.091918e-01      2.246127e-01      2.843120e-01
##          6.826746e-01      1.220586e+00      -8.142683e-01
##          5.234969e-01      -3.292213e-01      5.709827e-01
##          9.288198e-01      -8.186077e-01      -1.714359e-01
##          1.543698e-01      3.849118e-01      1.024894e+00
##          2.505720e-02      1.275531e-01      1.312335e-01
##          -1.535126e-01      -9.552486e-01      -1.106197e+00
##          -6.326664e-01      3.667729e-01      -2.471896e-01
##          8.582237e-02      2.635459e-01      -3.073079e-01
##          -3.282843e-01      -1.042797e+00      8.863686e-02
##          -9.342562e-01      6.773309e-01      -3.117162e-01
##          5.852415e-03      -1.063989e-01      -2.404211e-01
##          1.727276e-01      -1.089700e+00      1.515452e+00
##          5.584543e-01      -4.755487e-01      -8.638348e-02
##          -7.090239e-01      -9.974334e-02      7.701557e-02
##          5.310868e-01      6.516737e-01      2.543313e-01
##          -7.619059e-02      6.259236e-01      1.549564e-02
##          6.991724e-01      1.412491e-02      6.180900e-01
##          1.144642e+00      1.391959e+00      5.232606e-01
##          1.537539e-01      1.501029e+00      -1.131534e+00
##          -9.663936e-01      -1.671042e-01      -2.064346e-01
##          6.907852e-01      -7.818361e-02      -7.903696e-01
##          1.942209e-02      -6.444795e-01      5.800439e-01
##          -1.694083e-01      1.264104e-01      -8.978068e-01

```

```

##          -3.582658e-01      -1.305955e+00      6.461327e-01
##          5.754554e-03       3.968486e-01     -3.777083e-01
##         -8.644998e-01      -1.771050e-01      3.028968e-01
##          9.578412e-02       2.225063e-01     -1.012191e+00
##          2.055147e-01      -1.701059e-01      3.655340e-01
##          1.056090e-01       4.613792e-01     -3.177157e-01
##          2.812571e-01      -6.224854e-02      3.952812e-01
##          1.792235e-01      -1.583064e-01     -9.218236e-01
##          1.139771e+00      -2.408511e-01      3.328710e-01
##          8.570987e-01      -1.375737e+00      2.670976e-01
##          2.811426e-01       1.316120e-01     -1.194529e+00
##          -2.756515e-01     -8.696510e-01     -7.709701e-01
##          -4.213013e-01      6.772751e-01      5.297374e-01
##          -2.811627e-01      2.624248e-01     -8.769716e-01
##          2.222684e-01      -5.216214e-01      6.845611e-01
##          -2.660013e-01     -3.398533e-01     -8.332469e-02
##          -2.382602e-01      4.264075e-01     -7.731809e-01
##          9.565837e-01       4.632241e-01      1.792714e-01
##          -3.357498e-01     -4.590088e-01      1.247321e-01
##          -9.067030e-01     -7.419317e-01     -1.434994e+00
##          -2.270828e-01      2.749619e-01      1.421772e+00
##          2.103840e-01       3.404700e-01     -4.651986e-01
##          1.425541e-01       3.105789e-01     -5.159424e-01
##          -1.206518e-01     -6.581280e-01     -6.423052e-02
##          4.899595e-01       1.032273e+00      4.255750e-02
##          4.937314e-01       3.325873e-01     -1.108320e+00
##          -3.239322e-01     -1.335328e-01     -1.921157e-01

```

```

##          -3.949179e-01      -1.136917e+00      -1.373259e-02
##          1.064393e+00       2.798572e-01       1.480548e-01
##         -1.161639e-01      3.510632e-01       7.776550e-01
##          1.030360e-01      5.267379e-02       1.951152e-01
##          6.239803e-01      6.560038e-01       2.491440e-02
##          1.711880e-01      5.977119e-01       2.262122e-01
##          5.123179e-01      -5.851903e-01      -3.261750e-01
##          4.654117e-01      -3.987380e-02       8.833924e-01
##         -1.045766e+00      5.649079e-01       5.915231e-01
##         -5.460509e-01      -1.219112e-01      8.835360e-02
##          3.451867e-01      3.663529e-01      -7.413171e-01
##         -7.181692e-02      4.320088e-01       1.988988e-01
##         -4.963471e-01      -1.022814e+00      6.169440e-01
##          2.045349e-01      1.245828e+00      3.363775e-01
##         -6.397891e-02      1.413675e-01      -2.113804e-01
##         -2.985416e-01      -2.050708e-01      1.643044e+00
##          3.287870e-01      6.501723e-01       7.931937e-01
##          8.894949e-01      -6.621577e-01      -8.565497e-01
##         -8.819290e-01      -1.535274e-01      1.845298e-02
##          9.389481e-03      -8.676819e-01      -1.018357e+00
##          4.078725e-01      9.428898e-01       1.378257e-01
##         -9.593752e-01      1.980149e-01       7.203247e-02
##         -6.631874e-01      -1.288304e-02      8.790671e-03
##          4.916163e-01      7.608277e-01      -2.310163e-01
##          2.872201e-01      -7.249471e-01      -7.020675e-01
##          5.066122e-01      -9.215237e-01      -8.129100e-01
##          5.900453e-01      1.615722e-01      -1.343839e-01

```

```

##          1.533853e-02      2.040987e-01      4.007350e-01
##          3.063834e-02      9.335631e-01     -6.327393e-01
##          2.972401e-01      1.570265e-02      2.969890e-02
##          4.171676e-01      1.075737e+00     -5.090452e-01
##         -7.379085e-01     -9.538895e-01     -9.677599e-01
##          8.735214e-01      3.944523e-01      1.144296e+00
##         -1.299889e+00     -1.084613e+00      6.982151e-01
##         -8.798580e-02     -6.919062e-01     -9.020817e-01
##          2.087901e-01     -2.407199e-01      2.302007e-01
##         -1.664563e-01      4.315409e-02      6.231458e-01
##          2.537287e-01      3.123704e-01      1.129419e-01
##          6.770753e-01     -4.888820e-01     -4.312419e-01
##         -1.865945e-01      4.072425e-02     -1.334584e+00
##          2.887173e-01     -1.573008e-01      1.408026e+00
##         -1.376828e-01      5.184508e-01     -1.553325e-01
##         -5.008600e-01      3.273433e-01      3.903124e-01
##         -7.735118e-03     -4.056154e-01     -1.078741e+00
##         -7.742082e-01      5.749553e-01     -4.884804e-01
##         -4.822345e-01     -2.308407e-01     -4.444964e-01
##         -3.422761e-01
##
##  [[1]]$rank
## [1] 19
##
##  [[1]]$fitted.values
##          1        3        4        5        6        7        8        9
## 8.305087 8.228677 8.342027 8.558870 8.218300 8.165320 8.413549 8.252812
##          12       13       14       15       16       17       19       20
## 8.247333 8.307322 8.164791 8.150130 8.319840 8.071999 8.257340 8.335270
##          22       23       24       25       26       27       28       31
## 8.345304 8.503670 8.398697 8.241798 8.161358 8.207777 8.417465 8.271625
##          32       33       34       35       36       38       39       41
## 8.241730 8.304540 8.119071 8.250516 8.337461 8.217919 8.215883 8.347958
##          42       43       44       45       46       47       50       51

```

```

## 7.932015 8.492487 8.268504 8.303343 8.407403 8.458260 8.340024 8.272136
##      52      53      54      55      57      58      60      61
## 8.413157 8.311319 8.344733 8.276021 8.251727 8.292750 8.281562 8.341500
##      62      63      64      65      66      69      70      71
## 8.329898 8.474763 8.407923 8.405798 8.316450 8.202877 8.309989 8.290955
##      72      73      74      76      77      79      80      81
## 8.260085 8.255201 8.314706 8.196272 8.247206 8.161200 8.227869 8.531464
##      82      83      84      85      88      89      90      91
## 8.079173 8.270849 8.482547 8.464617 7.995347 8.256716 8.346577 8.170355
##      92      93      95      96      98      99      100     101
## 8.529161 8.262070 8.324018 8.328119 8.287589 8.212704 8.357808 8.212047
##     102     103     104     107     108     109     110     111
## 8.441473 8.240768 8.247822 8.379118 8.173030 8.268811 8.384996 8.366400
##     112     114     115     117     118     119     120     121
## 8.161415 8.318527 8.255175 8.232752 8.329191 8.117276 8.198160 8.334919
##     122     123     126     127     128     129     130     131
## 8.325736 8.266369 8.209338 8.264678 8.165453 8.433606 7.879268 8.544895
##     133     134     136     137     138     139     140     141
## 8.216953 8.273058 8.244519 8.325222 8.289914 8.419551 8.391752 8.332109
##     142     145     146     147     148     149     150     152
## 8.245577 8.490369 8.277534 8.340709 8.270223 8.355869 8.457240 8.223700
##     153     155     156     157     158     159     160     161
## 8.337803 8.293768 8.304786 8.080453 8.250955 8.322592 8.286152 8.222753
##     164     165     166     167     168     169     171     172
## 8.188410 8.179068 8.248804 8.344536 8.266379 8.147051 8.344580 8.148225
##     174     175     176     177     178     179     180     183
## 8.221343 8.302982 8.162796 7.946897 8.313378 8.247269 8.290331 8.333797
##     184     185     186     187     188     190     191     193
## 8.447502 8.313215 8.261896 8.258227 8.249108 8.250812 8.151517 8.293300
##     194     195     196     197     198     199     202     203
## 8.158261 8.310950 8.293458 8.286848 8.296758 8.368893 8.287078 8.280637
##     204     205     206     207     209     210     212     213
## 8.298988 8.250914 8.468027 8.321698 8.205517 8.305120 8.069251 8.384792
##     214     215     216     217     218     221     222     223
## 8.219393 8.271306 8.158149 8.293753 8.442533 8.386084 8.268582 8.081739
##     224     225     226     228     229     231     232     233
## 8.391525 8.393675 8.251946 8.542179 8.180661 8.220038 8.173921 8.487470
##     234     235     236     237     240     241     242     243
## 8.440862 8.353400 8.272531 8.245129 8.235491 8.287077 8.187202 8.211759
##     244     245     247     248     250     251     252     253
## 8.282507 8.434445 8.172481 8.187588 8.226773 8.391310 8.018852 8.143769
##     254     255     256     259     260     261     262     263
## 8.393071 8.238393 8.138364 8.090173 8.304098 8.358626 8.262959 8.150944
##     264     266     267     269     270     271     272     273
## 8.425681 8.329682 8.444094 8.283773 8.389739 8.320678 8.115649 8.354461
##     274     275     278     279     280     281     282     283
## 8.313850 8.426916 8.200741 8.330036 8.259841 8.168348 8.033054 8.174540
##     285     286     288     289     290     291     292     293
## 8.219023 8.238521 8.242364 8.303551 8.291227 8.208316 8.260185 8.261991
##     294     297     298     299     300     301     302     304
## 8.218893 8.212115 8.251308 8.297237 8.425346 8.286283 8.252179 8.197766
##     305     307     308     309     310     311     312     313
## 8.322476 8.315339 8.329439 8.254385 8.376035 8.369955 8.291785 8.349552
##     316     317     318     319     320     321     323     324

```

```

## 8.302371 8.213859 8.279769 8.234939 8.596224 8.355410 8.283369 8.136546
##      326      327      328      329      330      331      332      335
## 8.301628 8.302151 8.208454 8.307286 8.347784 8.053022 8.253407 8.229514
##      336      337      338      339      340      342      343      345
## 8.291691 8.331771 8.331125 8.470386 8.335549 8.278318 8.305601 8.199313
##      346      347      348      349      350      351      354      355
## 8.247696 8.333608 8.273647 8.413273 8.105978 8.284710 8.266233 8.288904
##      356      357      358      359      361      362      364      365
## 8.316915 8.243491 8.304451 8.337593 8.231030 8.403966 8.251233 8.062576
##      366      367      368      369      370      373      374      375
## 8.241095 8.340437 8.092131 8.259672 8.394934 8.514453 8.340279 8.325862
##      376      377      378      380      381      383      384      385
## 8.272926 8.354784 8.319467 8.194398 8.340053 8.398290 8.163237 8.221950
##      386      387      388      389      392      393      394      395
## 8.301917 8.485342 8.447362 8.256098 8.393442 8.261896 8.346953 8.242287
##      396      397      399      400      402      403      404      405
## 8.286137 8.109117 8.401053 8.261668 8.142087 8.152167 8.134229 8.336221
##      406      407      408      411      412      413      414      415
## 8.374821 8.244269 8.227533 8.020476 8.321274 8.336738 8.381671 8.217964
##      416      418      419      421      422      423      424      425
## 8.257115 8.341801 8.079760 8.189753 8.254098 8.202905 8.385235 8.082196
##      426      427      430      431      432      433      434      435
## 8.159040 8.268060 8.288982 8.273097 8.289003 8.022805 8.345053 8.289483
##      437      438      440      441      442      443      444      445
## 8.342935 8.251093 8.437580 8.198352 8.452963 8.279987 8.192390 8.243735
##      446      449      450      451      452      453      454      456
## 8.181354 8.406518 8.257776 8.510529 8.200420 8.317366 8.277047 8.452451
##      457      459      460      461      462      463      464      465
## 8.315122 8.162865 8.259871 8.332570 8.169115 8.233007 8.254384 8.308641
##      468      469      470      471      472      473      475      476
## 8.138147 8.295583 8.268524 8.352235 8.326908 8.194807 8.348232 8.283972
##      478      479      480      481      482      483      484      487
## 8.338743 8.226038 8.109956 8.262014 8.180075 8.324535 8.181457 7.827765
##      488      489      490      491      492      494      495      497
## 8.242992 8.270000 8.297260 8.242422 8.130852 8.539469 8.087839 8.253381
##      498      499      500      501      502      503      506      507
## 8.465158 8.204315 8.306220 8.302719 8.324445 8.444164 8.351119 8.134254
##      508      509      510      511      513      514      516      517
## 8.374866 8.324119 8.312738 8.233340 8.150058 8.264280 8.150150 8.227467
##      518      519      520      521      522      525      526      527
## 8.228807 8.422503 8.355388 8.269694 8.510729 8.205801 8.279521 8.303987
##      528      529      530      532      533      535      536      537
## 8.601474 8.263601 8.196830 8.342101 8.345911 8.205465 8.405904 8.442875
##      538      539      540      541      544      545      546      547
## 8.200082 8.330573 8.014683 8.095990 8.307004 8.386459 8.430192 8.364758
##      548      549      551      552      554      555      556      557
## 8.251405 8.436079 8.229000 8.271710 8.321528 8.282683 8.368428 8.361507
##      558      559      560      563      564      565      566      567
## 8.249556 8.304330 8.322252 8.354025 8.368293 8.221062 8.243589 8.273043
##      568      570      571      573      574      575      576      577
## 8.283679 8.255253 8.248304 8.322484 8.325171 8.314651 8.137304 8.273512
##      578      579      582      583      584      585      586      587
## 8.250728 8.340226 8.098918 8.278828 8.189062 8.179762 8.334655 8.245809
##      589      590      592      593      594      595      596      597

```

```

## 8.184231 8.246921 8.326414 8.219015 8.391300 8.392708 8.211762 8.085370
##      598      601      602      603      604      605      606      608
## 8.277609 8.331393 8.344257 8.100500 8.314254 8.321546 8.339960 8.129430
##      609      611      612      613      614      615      616      617
## 8.345623 8.227751 8.232814 8.275746 8.346337 8.235443 8.383217 7.868341
##      620      621      622      623      624      625      627      628
## 8.365968 8.271654 8.180112 8.229179 8.080776 8.378609 8.147552 8.428175
##      630      631      632      633      634      635      636      639
## 8.214479 8.254594 8.311030 8.316936 8.185887 8.158344 8.397843 8.349400
##      640      641      642      643      644      646      647      649
## 8.380171 8.315980 8.167005 8.400738 8.335563 8.332166 8.450349 8.434438
##      650      651      652      653      654      655      658      659
## 8.223822 8.323685 8.334846 8.395788 8.249346 8.339828 8.407284 7.970252
##      660      661      662      663      665      666      668      669
## 8.236616 8.330755 8.313831 8.236637 8.280179 8.386611 8.219085 8.331096
##      670      671      672      673      674      677      678      679
## 8.318534 8.272722 8.210092 8.377964 8.459403 8.346645 8.357886 8.494312
##      680      681      682      684      685      687      688      689
## 8.476459 8.297029 8.357808 8.308218 8.276073 8.275058 8.233182 8.219625
##      690      691      692      693      696      697      698      699
## 8.106756 8.205297 8.206682 8.144011 8.035852 8.290458 8.363333 8.259143
##      700      701      703      704      706      707      708      709
## 8.246846 8.353223 8.396703 8.328896 8.496605 8.399391 8.202538 8.550645
##      710      711      712      715      716      717      718      719
## 8.239880 8.490654 8.328573 8.288717 8.186035 8.278478 8.283619 7.986922
##      720      722      723      725      726      727      728      729
## 8.180866 8.259162 8.302282 8.429179 8.229478 8.186731 8.351057 8.280914
##      730      731      734      735      736      737      738      739
## 8.409583 8.268665 8.284632 8.433845 8.253937 8.327212 8.350308 8.595656
##      741      742      744      745      746      747      748      749
## 8.271865 8.194752 8.370648 7.945839 8.143446 8.319960 8.252843 8.169407
##      750      753      754      755      756      757      758      760
## 7.858055 8.324897 8.207330 8.220333 8.170126 8.225633 8.074433 8.416983
##      761      763      764      765      766      767      768      769
## 8.338705 8.257630 8.355991 8.284605 8.329664 8.094549 8.184925 8.298364
##      772      773      774      775      776      777      779      780
## 8.324919 8.342844 8.367172 8.120236 8.182086 8.348863 8.378572 8.370290
##      782      783      784      785      786      787      788      791
## 8.426458 8.274259 8.232898 8.138492 8.232006 8.328241 8.263536 8.327172
##      792      793      794      795      796      798      799      801
## 8.433362 8.247939 8.254138 8.241945 8.088233 8.060618 8.218715 8.493837
##      802      803      804      805      806      807      810      811
## 8.368867 8.389074 8.370152 8.233113 8.290891 8.236178 8.224647 8.148502
##      812      813      814      815      817      818      820      821
## 8.318457 8.278307 8.299741 8.132695 8.370557 8.306086 8.361779 8.239635
##      822      823      824      825      826      829      830      831
## 8.301483 8.196864 8.206428 8.277735 8.433334 8.244514 8.245884 8.514261
##      832      833      834      836      837      839      840      841
## 8.223331 8.566908 8.439562 8.440939 8.211963 8.189305 8.386572 8.157055
##      842      843      844      845      848      849      850      851
## 8.286585 8.240625 8.114613 8.171798 8.278667 8.394614 8.336822 8.380262
##      852      853      855      856      858      859      860      861
## 8.215978 8.078270 8.336349 8.381165 8.325799 8.356398 8.230642 8.460462
##      862      863      864      867      868      869      870      871

```

```

## 8.200135 8.235991 8.271708 8.321843 8.365658 8.423139 8.257995 8.038195
##     872      874      875      877      878      879      880      881
## 8.338115 8.307003 8.298247 8.185354 8.336694 8.221940 8.308735 8.300306
##     882      883      886      887      888      889      890      891
## 8.342950 8.253047 8.331311 8.224577 8.208860 8.392747 8.229463 8.360441
##     893      894      896      897      898      899      900      901
## 8.228531 8.292234 8.355764 8.296211 8.187476 8.200281 8.264487 8.351039
##     902      905      906      907      908      909      910      912
## 8.240676 7.946504 8.264204 8.370961 8.249319 8.259246 8.325453 8.320056
##     913      915      916      917      918      919      920      921
## 8.508064 8.397904 8.303023 8.211555 8.102777 8.290576 8.179296 8.240585
##     924      925      926      927      928      929      931      932
## 8.171884 8.333315 8.345862 8.262912 8.351552 8.329836 8.286949 8.269608
##     934      935      936      937      938      939      940      943
## 8.438137 8.280978 8.173587 8.034117 8.271206 8.089850 8.181982 8.050859
##     944      945      946      947      948      950      951      953
## 8.227327 8.197851 8.281473 7.943448 8.212244 8.339605 8.159332 8.526871
##     954      955      956      957      958      959      962      963
## 8.452618 8.254592 8.307841 8.259190 8.165038 8.115259 8.349499 8.099761
##     964      965      966      967      969      970      972      973
## 8.348807 8.189471 8.292056 8.478009 8.335424 8.360351 8.286482 8.385079
##     974      975      976      977      978      981      982      983
## 8.374126 8.207575 8.330729 8.215031 8.362273 8.369278 8.253340 8.263136
##     984      985      986      988      989      991      992      993
## 8.221685 8.370809 8.343558 8.183269 8.267892 8.216211 8.202603 8.139601
##     994      995      996      997      1000     1001     1002     1003
## 8.373605 8.119932 8.086205 8.387122 8.223000 8.338920 8.278820 8.188487
##    1004     1005     1007     1008     1010     1011     1012     1013
## 8.291622 8.267516 8.265779 8.199923 8.005943 8.496282 8.291433 7.864640
##    1014     1015     1016     1019     1020     1021     1022     1023
## 8.198223 8.338401 7.945455 8.424510 8.265473 8.194467 8.327990 8.190078
##    1024     1026     1027     1029     1030     1031     1032     1033
## 8.361206 8.259857 8.323863 8.360451 8.270082 8.156519 8.104130 8.331979
##    1034     1035     1038     1039     1040     1041     1042     1043
## 8.279018 8.219161 8.092421 8.301629 8.280127 8.284814 8.269660 8.395631
##    1045     1046     1048     1049     1050     1051     1052     1053
## 8.307660 8.360190 8.274289 8.366665 8.202169 8.378044 8.272688 8.190367
##    1054     1057     1058     1059     1060     1061     1062     1064
## 8.124470 8.327057 8.328436 8.258712 8.526715 8.182855 8.250894 8.303261
##    1065     1067     1068     1069     1070     1071     1072     1073
## 8.102381 8.298655 8.354315 8.372843 8.218429 8.364999 8.231545 8.261938
##    1076     1077     1078     1079     1080     1081     1083     1084
## 8.327300 8.196599 8.236739 8.453924 8.297144 8.272122 8.444034 8.271094
##    1086     1087     1088     1089     1090     1091     1092     1095
## 8.246218 8.427303 8.293122 8.270079 8.294430 8.309100 8.548188 8.055689
##    1096     1097     1098     1099     1100     1102     1103     1105
## 8.413157 8.266270 8.364024 8.313866 8.350067 8.426225 8.264550 8.150193
##    1106     1107     1108     1109     1110     1111     1114     1115
## 8.257672 8.312034 8.364925 8.323665 8.355794 8.307706 8.345145 8.136130
##    1116     1117     1118     1119     1121     1122     1124     1125
## 8.232878 8.094924 8.330155 8.172348 8.368628 8.238480 8.170227 8.380027
##    1126     1127     1128     1129     1130     1133     1134     1135
## 8.267878 8.336983 8.401365 8.380078 8.356279 8.209900 8.190187 8.255422
##    1136     1137     1138     1140     1141     1143     1144     1145

```

```

## 8.422500 8.360934 8.288723 8.226433 8.240210 8.278543 8.282703 8.322142
##    1146     1147     1148     1149     1152     1153     1154     1155
## 8.241888 8.394346 8.296893 8.203081 8.326626 8.120380 8.080885 8.074958
##    1156     1157     1159     1160     1162     1163     1164     1165
## 8.243978 8.219253 8.331069 8.228837 8.303845 8.294808 8.295355 8.430246
##    1166     1167     1168     1171     1172     1173     1174     1175
## 8.166362 8.279768 8.223761 8.406690 8.146351 8.455211 8.200620 8.236048
##    1176     1178     1179     1181     1182     1183     1184     1185
## 8.274872 8.316774 8.216987 8.309422 8.251064 8.349742 8.338467 8.284694
##    1186     1187     1190     1191     1192     1193     1194     1195
## 8.508862 8.291793 8.227625 8.323663 8.193365 8.197667 8.304959 8.340193
##    1197     1198     1200     1201     1202     1203     1204     1205
## 8.191699 8.000626 8.217057 8.141907 8.306563 8.493239 8.506908 8.266469
##    1206     1209     1210     1211     1212     1213     1214     1216
## 8.373528 8.357474 8.214749 7.896583 8.334949 8.205972 8.296392 8.223261
##    1217     1219     1220     1221     1222     1223     1224     1225
## 8.318492 8.340279 8.263490 8.345803 8.231613 8.160968 8.245948 8.237359
##    1228     1229     1230     1231     1232     1233     1235     1236
## 8.113127 8.350536 8.128922 8.396512 8.273702 8.214188 8.171056 8.173308
##    1238     1239     1240     1241     1242     1243     1244     1247
## 8.238473 8.359915 8.253228 8.251673 8.199252 8.241335 8.383171 8.301807
##    1248     1249     1250     1251     1252     1254     1255     1257
## 8.148771 8.250529 8.298718 8.312277 8.274811 8.282190 8.185894 8.363421
##    1258     1259     1260     1261     1262     1263     1266     1267
## 8.364979 8.264345 8.243356 8.289789 8.135835 7.987589 8.203899 7.912777
##    1268     1269     1270     1271     1273     1274     1276     1277
## 8.302147 8.091795 8.168642 8.184568 8.304268 8.263167 8.262190 8.286304
##    1278     1279     1280     1281     1282     1285     1286     1287
## 8.331130 8.131104 8.344830 8.185453 8.258806 8.487240 8.259196 8.229494
##    1288     1289     1290     1292     1293     1295     1296     1297
## 8.259812 8.334600 8.267702 8.398548 8.195930 8.313322 8.171094 8.339460
##    1298     1299     1300     1301     1304     1305     1306     1307
## 8.310564 8.278796 8.144829 8.349495 8.118105 8.199353 8.380344 8.267178
##    1308     1309     1311     1312     1314     1315     1316     1317
## 8.337655 8.171531 8.211108 8.272795 8.299624 8.342125 8.288197 8.355316
##    1318     1319     1320     1323     1324     1325     1326     1327
## 8.220855 8.275175 8.257141 8.302627 8.219545 8.416981 8.141311 8.242443
##    1328     1330     1331     1333     1334     1335     1336     1337
## 8.318904 8.211952 8.252378 8.182101 8.171151 8.144708 8.384446 8.006445
##    1338     1339     1342     1343     1344     1345     1346     1347
## 8.306142 8.413650 8.225372 8.301059 8.314555 8.552239 8.341320 8.202318
##    1349     1350     1352     1353     1354     1355     1356     1357
## 8.294950 8.220575 8.350207 8.311777 8.249913 8.181182 7.963659 8.177129
##    1358     1361     1362     1363     1364     1365     1366     1368
## 8.277744 8.180709 8.411490 8.286009 8.381217 8.156311 8.134732 8.331282
##    1369     1371     1372     1373     1374     1375     1376     1377
## 8.170672 8.328126 8.352344 8.322182 8.239554 8.390840 8.241363 8.204930
##    1380     1381     1382     1383     1384     1385     1387     1388
## 8.326772 8.247067 8.242711 8.302876 8.294128 8.413729 8.384204 8.447153
##    1390     1391     1392     1393     1394     1395     1396     1399
## 8.408912 8.294889 8.221530 8.485279 8.362382 8.252224 8.301898 8.050563
##    1400     1401     1402     1403     1404     1406     1407     1409
## 8.117400 8.122998 8.376714 8.486791 8.382703 8.207610 8.292378 8.042630
##    1410     1411     1412     1413     1414     1415     1418     1419

```

```

## 8.153271 8.123044 8.074527 8.367909 8.287012 8.285854 8.353368 8.227630
##    1420     1421     1422     1423     1425     1426     1428     1429
## 8.243916 8.386017 8.244239 8.371221 8.334552 8.378071 8.361173 8.328900
##    1430     1431     1432     1433     1434     1437     1438     1439
## 8.285686 8.168957 8.450216 8.447744 8.290471 8.203271 8.342988 8.426812
##    1440     1441     1442     1444     1445     1447     1448     1449
## 8.272150 8.287125 8.176686 8.239741 8.309835 8.478352 8.297209 8.185405
##    1450     1451     1452     1453     1456     1457     1458     1459
## 8.325209 8.258553 8.198340 8.256691 8.437129 8.383856 8.411450 8.366066
##    1460     1461     1463     1464     1466     1467     1468     1469
## 8.483970 8.338281 8.285370 8.274987 8.245735 8.222720 8.245165 8.278016
##    1470     1471     1472     1475     1476     1477     1478     1479
## 8.361980 8.179346 8.198412 8.392699 8.216387 8.274687 8.382617 8.365446
##    1480     1482     1483     1485     1486     1487     1488     1489
## 8.394934 8.464819 8.310648 8.157543 8.351898 8.347109 8.366717 8.289236
##    1490     1491     1494     1495     1496     1497     1498     1499
## 8.299933 8.347836 8.085879 8.437025 8.311455 8.271053 8.312284 8.244150
##    1501     1502     1504     1505     1506     1507     1508     1509
## 8.214419 8.254033 8.330280 8.265505 8.213584 8.210081 8.227141 8.259090
##    1510     1513     1514     1515     1516     1517     1518     1520
## 8.415029 8.199762 8.380337 8.353648 8.274005 8.289741 8.408999 8.172778
##    1521     1523     1524     1525     1526     1527     1528     1529
## 8.169632 8.036688 8.298944 8.287717 8.307630 8.274642 8.263654 8.149383
##    1532     1533     1534     1535     1536     1537     1539     1540
## 8.378427 8.251046 8.290989 8.178379 8.311587 8.407638 8.588537 8.314555
##    1542     1543     1544     1545     1546     1547     1548     1551
## 8.443149 8.222497 8.339907 8.370352 8.424669 8.135550 8.304161 8.290389
##    1552     1553     1554     1555     1556     1558     1559     1561
## 8.524274 8.253936 8.239018 8.115741 8.382471 8.218187 8.344788 8.327539
##    1562     1563     1564     1565     1566     1567     1570     1571
## 8.230164 8.184988 8.254056 8.261781 8.433527 8.457067 8.317179 8.331178
##    1572     1573     1574     1575     1577     1578     1580     1581
## 8.344398 8.212801 8.341946 8.324332 8.319577 8.273507 8.343711 8.277729
##    1582     1583     1584     1585     1586     1589     1590     1591
## 8.202267 8.288842 8.286173 8.379037 8.377537 8.411511 8.449703 8.541892
##    1592     1593     1594     1596     1597     1599     1600     1601
## 8.314160 8.307300 8.362529 8.213614 8.345475 8.337331 8.258166 8.301637
##    1602     1603     1604     1605     1608     1609     1610     1611
## 8.326858 8.243598 8.425776 8.509055 8.166161 8.220090 8.345428 8.247757
##    1612     1613     1615     1616     1618     1619     1620     1621
## 8.174554 8.429231 8.421702 8.325113 8.120883 8.285741 8.257347 8.207419
##    1622     1623     1624     1627     1628     1629     1630     1631
## 8.214808 8.296678 8.192081 8.201461 8.171830 8.053942 8.212571 8.334075
##    1632     1634     1635     1637     1638     1639     1640     1641
## 8.248618 8.163792 8.422811 8.117076 8.224924 8.366656 8.225965 8.201498
##    1642     1643     1646     1647     1648     1649     1650     1651
## 8.144394 8.377491 8.278892 8.255464 8.247646 8.151591 8.231048 8.232459
##    1653     1654     1656     1657     1658     1659     1660     1661
## 8.250991 8.308277 8.234297 8.340950 8.218179 8.413573 8.270681 8.305893
##    1662     1665     1666     1667     1668     1669     1670     1672
## 8.332225 8.368354 8.241085 8.250563 8.240551 8.247774 8.317911 8.379193
##    1673     1675     1676     1677     1678     1679     1680     1681
## 8.326474 8.335126 8.236258 8.264003 8.392460 8.273852 8.345855 8.315909
##    1684     1685     1686     1687     1688     1689     1691     1692

```

```

## 8.382275 8.219538 8.092234 8.336150 8.457599 8.287354 8.172500 8.300088
## 1694 1695 1696 1697 1698 1699 1700 1703
## 8.369932 8.188075 8.040014 8.218398 8.312563 8.487180 7.974445 8.267115
## 1704 1705 1706 1707 1708 1710 1711 1713
## 8.172342 8.358172 8.308604 8.111925 8.338047 8.476263 8.339793 8.233672
## 1714 1715 1716 1717 1718 1719 1722 1723
## 8.307116 8.370998 7.916535 8.393203 8.345106 8.500498 8.178347 8.147552
## 1724 1725 1726 1727 1729 1730 1732 1733
## 8.099913 8.328176 8.195973 8.422964 8.451511 8.236768 8.257900 8.283006
## 1734 1735 1736 1737 1738 1741 1742 1743
## 8.176714 8.117100 8.308980 8.412072 8.284977 8.127040 8.603031 8.287625
## 1744 1745 1746 1748 1749 1751 1752 1753
## 8.387783 8.223383 8.304124 8.418734 8.165498 8.144307 8.228827 8.337481
## 1754 1755 1756 1757 1760 1761 1762 1763
## 8.264998 8.221649 8.321814 8.470668 8.278431 8.368588 8.378517 8.230246
## 1764 1765 1767 1768 1770 1771 1772 1773
## 8.269800 8.342872 8.129194 8.199044 8.334826 8.371870 8.314264 8.317747
## 1774 1775 1776 1779 1780 1781 1782 1783
## 8.277810 8.176157 8.344977 8.375778 8.372759 8.219169 8.385917 8.155390
## 1784 1786 1787 1789 1790 1791 1792 1793
## 8.135006 8.247994 8.320931 8.463504 8.332348 8.432119 8.406908 8.407485
## 1794 1795 1798 1799 1800 1801 1802 1803
## 8.236815 8.259343 8.256486 8.365066 7.933131 8.288143 8.265605 8.232996
## 1805 1806 1808 1809 1810 1811 1812 1813
## 8.005188 8.345268 8.098080 8.352335 8.396392 8.343799 8.159125 8.299220
## 1814 1817 1818 1819 1820 1821 1822 1824
## 8.030326 8.351224 8.337459 8.226828 8.306878 8.070436 8.126870 8.224731
## 1825 1828 1829 1830 1831 1832 1833 1834
## 8.333930 8.389808 8.346020 8.348669 8.208787 8.244952 8.208606 8.170561
## 1837 1838 1839 1840 1841 1842 1844 1845
## 8.341809 8.310107 8.101678 8.229609 8.312585 8.266350 8.188826 8.378040
## 1847 1848 1849 1850 1851 1852 1853 1856
## 8.227200 8.300665 8.163802 8.388069 8.234776 8.270101 8.259362 8.135746
## 1857 1858 1859 1860 1861 1863 1864 1866
## 8.405323 8.227630 8.210261 8.637986 8.241729 8.240453 8.268057 8.278058
## 1867 1868 1869 1870 1871 1872 1875 1876
## 8.374769 8.245782 8.397923 8.229767 8.307415 8.288111 8.240751 8.375794
## 1877 1878 1879 1880 1882 1883 1885 1886
## 8.123918 8.196512 8.237876 8.278000 8.254454 8.233050 8.292805 8.271235
## 1887 1888 1889 1890 1891 1894 1895 1896
## 8.311365 8.204699 8.284996 8.427507 8.341342 8.385994 8.434665 8.290446
## 1897 1898 1899 1901 1902 1904 1905 1906
## 8.389346 8.317180 8.375909 8.271187 8.284647 8.301069 8.170845 8.193685
## 1907 1908 1909 1910 1913 1914 1915 1916
## 8.217439 8.330336 8.225635 8.164939 8.396722 8.225401 8.249039 8.418881
## 1917 1918 1920 1921 1923 1924 1925 1926
## 8.272493 8.333958 8.345399 8.411094 8.299532 8.260729 8.264368 8.260804
## 1927 1928 1929 1932 1933 1934 1935 1936
## 8.375607 8.288236 8.318485 8.225186 8.378998 8.342818 8.320934 8.146337
## 1937 1939 1940 1942 1943 1944 1945 1946
## 8.343557 8.228657 8.348061 8.237854 8.304136 8.178040 8.238021 8.234963
## 1947 1948 1951 1952 1953 1954 1955 1956
## 8.230503 8.286095 8.372949 8.287238 8.380297 8.300978 8.276226 8.165913
## 1958 1959 1961 1962 1963 1964 1965 1966

```

```

## 8.259777 8.173646 8.296946 8.231205 8.270205 8.245456 8.199969 8.383216
## 1967 1970 1971 1972 1973 1974 1975 1977
## 8.322670 8.423486 8.297727 8.368882 8.338766 8.360537 8.323441 8.352354
## 1978 1980 1981 1982 1983 1984 1985 1986
## 8.354874 8.268534 8.254782 8.246042 8.287349 8.378994 8.341187 8.360182
## 1989 1990 1991 1992 1993 1994 1996 1997
## 8.288385 8.166949 8.420929 8.088462 8.285177 8.401624 8.325321 8.283753
## 1999 2000 2001 2002 2003 2004 2005 2008
## 8.245259 8.314702 8.291276 8.310604 8.325722 8.312006 8.407146 8.328632
## 2009 2010 2011 2012 2013 2015 2016 2018
## 8.319542 8.236681 8.291417 8.291702 8.253602 8.284328 8.299951 8.432383
## 2019 2020 2021 2022 2023 2024 2027 2028
## 8.288672 8.475830 8.313459 8.299192 8.338979 8.229756 8.296634 8.254207
## 2029 2030 2031 2032 2034 2035 2037 2038
## 8.526338 8.256130 8.322373 8.482250 8.158187 8.313833 8.186692 8.227215
## 2039 2040 2041 2042 2043 2046 2047 2048
## 8.062837 8.354244 8.293368 8.168897 8.228552 8.301285 8.205646 8.262922
## 2049 2050 2051 2053 2054 2056 2057 2058
## 8.272935 8.332232 8.348536 7.998520 8.339573 8.321943 8.383348 8.195317
## 2059 2060 2061 2062 2065 2066 2067 2068
## 8.340555 8.267597 8.427584 8.193552 8.388607 8.284381 8.223989 8.182674
## 2069 2070 2072 2073 2075 2076 2077 2078
## 8.217148 8.225474 8.470309 8.377991 8.342854 8.129482 8.279810 8.364947
## 2079 2080 2081 2084 2085 2086 2087 2088
## 8.142747 8.169440 8.218725 8.198655 8.284250 8.342991 8.137258 8.229536
## 2089 2091 2092 2094 2095 2096 2097 2098
## 8.262209 8.149701 8.547057 8.308746 8.427794 8.288474 8.204310 8.242198
## 2099 2100 2103 2104 2105 2106 2107 2108
## 8.360072 8.316767 8.435867 8.318908 8.349564 8.136788 8.181505 8.148995
## 2110 2111 2113 2114 2115 2116 2117 2118
## 8.276536 8.302528 8.396963 8.364889 8.497974 8.410386 8.140911 8.369329
## 2119 2122 2123 2124 2125 2126 2127 2129
## 8.151746 8.287477 8.395666 8.265056 8.263446 8.216806 8.387450 8.462862
## 2130 2132 2133 2134 2135 2136 2137 2138
## 8.224864 8.229674 8.356266 8.184585 8.267270 8.362688 8.304869 8.194298
## 2141 2142 2143 2144 2145 2146 2148 2149
## 8.260246 8.242278 8.257563 8.173971 8.292745 8.302521 8.555599 8.439403
## 2151 2152 2153
## 8.306213 7.987212 8.310678
##
## [[1]]$assign
## [1] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
##
## [[1]]$qr
## $qr
## (Intercept) KIDSDRV HOMEKIDS YOJ BLUEBOOK
## 1 -39.42920035 -10.352136844 -37.149925580 -3.898388e+02 -5.546488e+05
## 3 0.02536191 25.167470970 22.954926758 1.197987e+01 1.642677e+04
## 4 0.02536191 0.010174083 41.472301319 2.950464e+00 -4.694681e+04
## 5 0.01896687 0.007608674 0.012675504 -1.777326e+02 -4.934669e+04
## 6 0.02536191 0.010174083 0.016949291 -5.536284e-02 3.112540e+05
## 7 0.02536191 0.010174083 -0.007163188 1.794488e-02 1.910210e-02
## 8 0.02536191 0.010174083 0.016949291 1.778075e-02 -3.437047e-02
## 9 0.02536191 0.010174083 -0.007163188 -4.560844e-03 1.058235e-02

```

| | | | | | |
|-------|------------|--------------|--------------|---------------|---------------|
| ## 12 | 0.02536191 | -0.029559746 | 0.015502954 | 2.077921e-02 | -5.015612e-02 |
| ## 13 | 0.02536191 | -0.029559746 | -0.008609525 | 9.690478e-03 | 2.044489e-03 |
| ## 14 | 0.01905841 | 0.007645393 | -0.059741355 | 9.626788e-03 | 9.230581e-03 |
| ## 15 | 0.02506481 | 0.010054897 | 0.016750736 | -1.023014e-02 | 3.580736e-02 |
| ## 16 | 0.02536191 | -0.069293576 | -0.010055862 | 1.436079e-03 | -1.430630e-02 |
| ## 17 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | 4.184172e-02 |
| ## 19 | 0.02205062 | 0.008845736 | 0.014736360 | 1.056743e-02 | 1.645026e-02 |
| ## 20 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 1.257471e-03 |
| ## 22 | 0.02116940 | 0.008492231 | 0.014147446 | 7.524435e-04 | 7.061470e-03 |
| ## 23 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -3.047561e-02 |
| ## 24 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | -2.693011e-02 |
| ## 25 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -4.229069e-03 |
| ## 26 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 7.569860e-03 |
| ## 27 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 1.916230e-02 |
| ## 28 | 0.02536191 | 0.010174083 | -0.007163188 | -1.018727e-02 | -6.328963e-02 |
| ## 31 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | -1.679206e-02 |
| ## 32 | 0.02226652 | 0.008932349 | 0.014880651 | -4.860587e-02 | 1.645502e-02 |
| ## 33 | 0.02536191 | 0.010174083 | -0.031275667 | 2.936186e-02 | 3.164808e-03 |
| ## 34 | 0.02536191 | -0.029559746 | 0.015502954 | 3.203207e-02 | 5.251686e-03 |
| ## 35 | 0.02536191 | 0.010174083 | -0.055388147 | 4.640527e-02 | -2.069864e-02 |
| ## 36 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 7.611470e-03 |
| ## 38 | 0.02536191 | -0.029559746 | -0.032722004 | -5.766256e-02 | -2.202544e-02 |
| ## 39 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 2.119797e-02 |
| ## 41 | 0.02464042 | 0.009884650 | -0.030385934 | 2.306020e-02 | 2.659779e-03 |
| ## 42 | 0.02404098 | -0.103348870 | -0.010903123 | -5.979705e-02 | 3.175927e-02 |
| ## 43 | 0.01457252 | 0.005845853 | -0.031825078 | 4.033723e-03 | -5.717730e-02 |
| ## 44 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 6.464341e-03 |
| ## 45 | 0.02536191 | 0.010174083 | -0.055388147 | 2.389955e-02 | -4.672518e-03 |
| ## 46 | 0.01856915 | 0.007449126 | 0.012409708 | 8.898991e-03 | 1.550411e-03 |
| ## 47 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | -2.591837e-02 |
| ## 50 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -4.839729e-02 |
| ## 51 | 0.02536191 | -0.069293576 | 0.014056618 | 6.898385e-03 | 3.018919e-02 |
| ## 52 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -2.651437e-02 |
| ## 53 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.125696e-02 |
| ## 54 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.638376e-02 |
| ## 55 | 0.02046004 | 0.008207668 | -0.005778710 | -3.679339e-03 | 2.079647e-02 |
| ## 57 | 0.02536191 | 0.010174083 | -0.031275667 | -1.002315e-02 | 2.790133e-02 |
| ## 58 | 0.01961888 | 0.007870232 | 0.013111241 | 1.375442e-02 | -1.050768e-02 |
| ## 60 | 0.01700597 | 0.006822046 | 0.011365039 | 8.149860e-03 | 8.356713e-03 |
| ## 61 | 0.02536191 | -0.029559746 | -0.008609525 | 9.690478e-03 | 9.980129e-03 |
| ## 62 | 0.02536191 | 0.010174083 | -0.031275667 | -3.252887e-02 | 1.398406e-02 |
| ## 63 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -2.480578e-02 |
| ## 64 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | -2.347343e-02 |
| ## 65 | 0.02536191 | 0.010174083 | -0.007163188 | -1.018727e-02 | -3.003705e-02 |
| ## 66 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | 1.561728e-02 |
| ## 69 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -2.551260e-02 |
| ## 70 | 0.02536191 | 0.010174083 | -0.055388147 | 2.389955e-02 | 1.804205e-02 |
| ## 71 | 0.01862490 | 0.007471488 | 0.012446963 | -3.469850e-03 | -3.345535e-02 |
| ## 72 | 0.02536191 | 0.010174083 | -0.031275667 | -4.396720e-03 | 2.047689e-03 |
| ## 73 | 0.02536191 | -0.069293576 | 0.014056618 | 1.271955e-03 | -2.138589e-02 |
| ## 74 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -8.050195e-03 |
| ## 76 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 1.599757e-02 |
| ## 77 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 2.847402e-02 |
| ## 79 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 9.553885e-03 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 80 | 0.01555910 | 0.006241624 | 0.010398097 | 7.456467e-03 | 1.491872e-02 |
| ## 81 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -4.826509e-02 |
| ## 82 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 2.000693e-02 |
| ## 83 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 4.090723e-03 |
| ## 84 | 0.02248915 | 0.009021658 | 0.015029433 | -9.178888e-03 | -3.197228e-02 |
| ## 85 | 0.01543535 | 0.006191981 | 0.010315396 | 3.972897e-03 | -1.823118e-02 |
| ## 88 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | 3.007492e-02 |
| ## 89 | 0.01942961 | 0.007794305 | 0.012984752 | 1.362173e-02 | 1.624973e-02 |
| ## 90 | 0.02441977 | 0.009796136 | -0.030113839 | 1.743629e-02 | 4.977862e-03 |
| ## 91 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | 9.906391e-03 |
| ## 92 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | -2.697908e-02 |
| ## 93 | 0.02536191 | -0.029559746 | -0.008609525 | -1.844167e-02 | 1.854305e-02 |
| ## 95 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.134543e-02 |
| ## 96 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 2.505123e-02 |
| ## 98 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -1.698314e-03 |
| ## 99 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 1.233218e-02 |
| ## 100 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | -9.804076e-03 |
| ## 101 | 0.02248603 | 0.009020406 | 0.015027347 | 1.077610e-02 | 3.084666e-02 |
| ## 102 | 0.02536191 | -0.029559746 | -0.008609525 | 4.344906e-02 | -6.765975e-03 |
| ## 103 | 0.02482050 | -0.067814334 | -0.009841194 | 1.241806e-02 | -3.319355e-02 |
| ## 104 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 6.965226e-03 |
| ## 107 | 0.02536191 | 0.010174083 | -0.031275667 | -4.396720e-03 | 9.597792e-03 |
| ## 108 | 0.02447182 | -0.028522324 | -0.008307367 | -1.779445e-02 | 2.365837e-02 |
| ## 109 | 0.02536191 | 0.010174083 | -0.031275667 | 4.061472e-02 | 1.705879e-03 |
| ## 110 | 0.02536191 | -0.029559746 | -0.008609525 | 2.656977e-02 | 1.685186e-02 |
| ## 111 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.479868e-02 |
| ## 112 | 0.02536191 | -0.069293576 | -0.010055862 | -4.190351e-03 | 2.227812e-02 |
| ## 114 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | 7.732611e-03 |
| ## 115 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.474023e-02 |
| ## 117 | 0.01420401 | 0.005698025 | 0.009492499 | 9.958162e-03 | 1.403857e-02 |
| ## 118 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | -2.376434e-02 |
| ## 119 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 3.193437e-02 |
| ## 120 | 0.02320468 | 0.009308694 | 0.015507616 | 1.626835e-02 | 2.752007e-02 |
| ## 121 | 0.01912066 | 0.007670367 | -0.023579113 | 1.365260e-02 | -3.757001e-02 |
| ## 122 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 2.092802e-03 |
| ## 123 | 0.02536191 | 0.010174083 | -0.079500626 | 1.843725e-02 | 5.867429e-03 |
| ## 126 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 2.350558e-02 |
| ## 127 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.183683e-02 |
| ## 128 | 0.01590272 | 0.006379471 | 0.010627740 | -3.471424e-02 | -1.537385e-04 |
| ## 129 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | -2.813328e-02 |
| ## 130 | 0.01711474 | 0.006865681 | 0.011437731 | 1.959248e-02 | 3.258166e-02 |
| ## 131 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.492113e-02 |
| ## 133 | 0.02260457 | 0.009067959 | -0.049366361 | 2.631593e-02 | 2.236007e-02 |
| ## 134 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 7.052129e-03 |
| ## 136 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | -1.252319e-02 |
| ## 137 | 0.02525875 | 0.010132699 | 0.016880348 | -4.705749e-03 | -2.902086e-02 |
| ## 138 | 0.02536191 | 0.010174083 | -0.055388147 | -9.859026e-03 | 1.123826e-02 |
| ## 139 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -6.634548e-02 |
| ## 140 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -3.258658e-02 |
| ## 141 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -1.211518e-02 |
| ## 142 | 0.01700703 | 0.006822470 | 0.011365744 | 4.377431e-03 | 3.568050e-03 |
| ## 145 | 0.02024913 | -0.087048224 | 0.010068134 | 2.137825e-02 | 2.760595e-02 |
| ## 146 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.260449e-02 |
| ## 147 | 0.02434069 | 0.009764415 | 0.016266813 | 1.706479e-02 | -2.337089e-03 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 148 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 3.348600e-02 |
| ## 149 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.737471e-02 |
| ## 150 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.436547e-02 |
| ## 152 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | 2.273643e-02 |
| ## 153 | 0.01643463 | -0.019154843 | 0.010045981 | -4.764735e-03 | -4.375362e-02 |
| ## 155 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.725490e-02 |
| ## 156 | 0.02064989 | 0.008283827 | 0.013800260 | 7.339782e-04 | -1.048138e-02 |
| ## 157 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 2.844521e-02 |
| ## 158 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -5.181313e-03 |
| ## 159 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 3.710806e-03 |
| ## 160 | 0.02536191 | -0.029559746 | -0.008609525 | -1.562382e-03 | 2.477222e-02 |
| ## 161 | 0.02536191 | 0.010174083 | -0.007163188 | 2.357131e-02 | 2.203524e-02 |
| ## 164 | 0.01865909 | 0.007485206 | 0.012469816 | -3.476221e-03 | 2.370856e-02 |
| ## 165 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 2.227523e-02 |
| ## 166 | 0.02396841 | 0.009615069 | 0.016018014 | -3.636907e-02 | 1.023998e-02 |
| ## 167 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.077451e-02 |
| ## 168 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.189399e-02 |
| ## 169 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.616835e-02 |
| ## 171 | 0.02536191 | -0.069293576 | -0.010055862 | -9.816781e-03 | 1.256595e-02 |
| ## 172 | 0.02536191 | 0.010174083 | -0.007163188 | -2.144013e-02 | 1.678676e-02 |
| ## 174 | 0.02297154 | -0.062762613 | -0.009108090 | 2.678141e-02 | -2.120848e-02 |
| ## 175 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.453691e-02 |
| ## 176 | 0.02536191 | 0.010174083 | -0.007163188 | -1.581370e-02 | 3.363136e-02 |
| ## 177 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 3.223632e-02 |
| ## 178 | 0.02536191 | -0.069293576 | -0.010055862 | -4.190351e-03 | -9.239543e-03 |
| ## 179 | 0.02536191 | -0.029559746 | -0.008609525 | 2.656977e-02 | -3.747675e-02 |
| ## 180 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | -4.608441e-03 |
| ## 183 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | -2.705089e-02 |
| ## 184 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -7.023123e-02 |
| ## 185 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -7.119507e-02 |
| ## 186 | 0.01746499 | 0.007006186 | -0.021537386 | 1.634495e-02 | 7.084470e-03 |
| ## 187 | 0.01913856 | 0.007677548 | -0.023601186 | 1.366538e-02 | 1.958747e-02 |
| ## 188 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.649355e-02 |
| ## 190 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | 2.459741e-03 |
| ## 191 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 2.952476e-02 |
| ## 193 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -3.210272e-03 |
| ## 194 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.965135e-02 |
| ## 195 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -4.306384e-02 |
| ## 196 | 0.02536191 | -0.069293576 | -0.010055862 | 1.831537e-02 | -3.422940e-02 |
| ## 197 | 0.01762489 | -0.048154556 | 0.009768441 | -1.084609e-02 | 1.304943e-02 |
| ## 198 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 5.202042e-03 |
| ## 199 | 0.02536191 | -0.029559746 | -0.008609525 | -7.188812e-03 | -3.820834e-02 |
| ## 202 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.002108e-02 |
| ## 203 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | -1.861243e-02 |
| ## 204 | 0.02381032 | 0.009551652 | 0.015912366 | 6.128528e-03 | 7.317889e-03 |
| ## 205 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 8.819174e-03 |
| ## 206 | 0.02188174 | 0.008777989 | 0.014623498 | 7.777627e-04 | -1.587439e-02 |
| ## 207 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -4.728597e-02 |
| ## 209 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.888395e-02 |
| ## 210 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -6.949780e-04 |
| ## 212 | 0.02381410 | 0.009553168 | 0.015914891 | -5.198409e-02 | 1.452161e-02 |
| ## 213 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | 8.004917e-03 |
| ## 214 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | 1.622760e-02 |
| ## 215 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -9.530205e-03 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 216 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 3.853011e-02 |
| ## 217 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.729519e-02 |
| ## 218 | 0.01653169 | -0.019267964 | -0.037046487 | -8.139412e-03 | -2.179726e-02 |
| ## 221 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | -1.717808e-02 |
| ## 222 | 0.02104555 | 0.008442548 | 0.014064679 | -4.594060e-02 | 9.687476e-03 |
| ## 223 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 1.323931e-02 |
| ## 224 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 3.837194e-03 |
| ## 225 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | -4.102456e-02 |
| ## 226 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 1.725183e-02 |
| ## 228 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | -2.902211e-02 |
| ## 229 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | 7.231733e-03 |
| ## 231 | 0.02012906 | -0.023460764 | -0.006833145 | 1.662216e-02 | 2.428099e-02 |
| ## 232 | 0.02536191 | 0.010174083 | -0.079500626 | 1.557958e-03 | 1.345334e-02 |
| ## 233 | 0.02536191 | -0.069293576 | 0.014056618 | 2.940411e-02 | -1.269603e-02 |
| ## 234 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 3.731663e-04 |
| ## 235 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.015459e-02 |
| ## 236 | 0.02304704 | 0.009245459 | -0.028421028 | 2.156901e-02 | 1.416605e-02 |
| ## 237 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.060307e-02 |
| ## 240 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | 2.996139e-02 |
| ## 241 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.592101e-03 |
| ## 242 | 0.02099331 | 0.008421593 | 0.014029768 | 1.937529e-02 | 1.389538e-02 |
| ## 243 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 8.983676e-03 |
| ## 244 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -1.896516e-03 |
| ## 245 | 0.02536191 | 0.010174083 | -0.103613105 | 3.548066e-02 | -4.054994e-02 |
| ## 247 | 0.02028947 | -0.023647724 | 0.012402325 | 7.621059e-03 | 2.740596e-02 |
| ## 248 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 1.934789e-02 |
| ## 250 | 0.01641445 | 0.006584755 | 0.010969728 | 5.834340e-04 | 5.496157e-03 |
| ## 251 | 0.01420314 | 0.005697674 | 0.009491915 | -2.646069e-03 | -1.275612e-02 |
| ## 252 | 0.02536191 | 0.010174083 | -0.079500626 | 2.406368e-02 | 3.170790e-02 |
| ## 253 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 2.015616e-02 |
| ## 254 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 4.398661e-03 |
| ## 255 | 0.02079145 | 0.008340616 | 0.013894866 | -8.485977e-03 | -6.053255e-02 |
| ## 256 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 3.732066e-02 |
| ## 259 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 2.060806e-02 |
| ## 260 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 1.121000e-02 |
| ## 261 | 0.02536191 | -0.029559746 | -0.008609525 | -7.188812e-03 | -1.591144e-02 |
| ## 262 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 8.713308e-03 |
| ## 263 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | 3.878153e-02 |
| ## 264 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | -1.620668e-02 |
| ## 266 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | -2.238651e-02 |
| ## 267 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 6.953627e-03 |
| ## 269 | 0.02536191 | -0.069293576 | -0.010055862 | 1.436079e-03 | -1.527014e-02 |
| ## 270 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -2.571206e-03 |
| ## 271 | 0.02536191 | -0.029559746 | -0.008609525 | 9.690478e-03 | -2.298330e-02 |
| ## 272 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 3.554395e-02 |
| ## 273 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 5.784030e-03 |
| ## 274 | 0.01732179 | 0.006948738 | 0.011576098 | -1.475537e-02 | -1.579589e-02 |
| ## 275 | 0.01597039 | 0.006406617 | 0.010672963 | 4.110611e-03 | 5.373670e-03 |
| ## 278 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.135306e-02 |
| ## 279 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 6.082486e-03 |
| ## 280 | 0.02461408 | 0.009874086 | 0.016449517 | 6.335408e-03 | -1.494759e-02 |
| ## 281 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 2.575454e-02 |
| ## 282 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | 1.217957e-02 |
| ## 283 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -3.703186e-02 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 285 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 2.301768e-02 |
| ## 286 | 0.02536191 | -0.029559746 | -0.008609525 | -1.844167e-02 | -3.014904e-03 |
| ## 288 | 0.02536191 | -0.069293576 | 0.014056618 | 1.815125e-02 | -1.621695e-02 |
| ## 289 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | -8.837937e-03 |
| ## 290 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.422986e-02 |
| ## 291 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 1.866740e-02 |
| ## 292 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | -4.185528e-03 |
| ## 293 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 3.352310e-04 |
| ## 294 | 0.02536191 | -0.069293576 | 0.014056618 | -3.248663e-02 | 2.282973e-02 |
| ## 297 | 0.01861122 | -0.050849406 | 0.010315107 | 2.570631e-02 | 1.744953e-02 |
| ## 298 | 0.01997059 | 0.008011320 | 0.013346283 | 1.400100e-02 | 2.317857e-02 |
| ## 299 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.755222e-02 |
| ## 300 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.488768e-02 |
| ## 301 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | -1.104354e-02 |
| ## 302 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.781504e-02 |
| ## 304 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 3.471442e-02 |
| ## 305 | 0.02536191 | -0.029559746 | 0.015502954 | 1.515278e-02 | 4.966215e-03 |
| ## 307 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.946674e-02 |
| ## 308 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 1.022719e-02 |
| ## 309 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.719048e-03 |
| ## 310 | 0.01888900 | 0.007577435 | -0.005334987 | -4.111080e-02 | 6.119037e-03 |
| ## 311 | 0.02536191 | 0.010174083 | -0.007163188 | 2.357131e-02 | -8.743483e-03 |
| ## 312 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | -6.968887e-03 |
| ## 313 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -9.596026e-03 |
| ## 316 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | -1.305427e-02 |
| ## 317 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.419905e-02 |
| ## 318 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -6.381651e-03 |
| ## 319 | 0.02334476 | -0.063782326 | -0.009256071 | 6.500794e-03 | 1.783257e-02 |
| ## 320 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.823032e-02 |
| ## 321 | 0.02536191 | 0.010174083 | -0.055388147 | 1.827312e-02 | -6.981153e-04 |
| ## 323 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -3.847339e-02 |
| ## 324 | 0.01762393 | 0.007069943 | -0.021733377 | 1.649369e-02 | 1.072106e-02 |
| ## 326 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 9.102527e-03 |
| ## 327 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.076002e-02 |
| ## 328 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.148265e-02 |
| ## 329 | 0.02218888 | 0.008901202 | 0.014828763 | -1.890135e-02 | 1.835880e-02 |
| ## 330 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.164954e-03 |
| ## 331 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 4.293342e-02 |
| ## 332 | 0.01479535 | 0.005935243 | 0.009887689 | 1.037274e-02 | -2.466133e-02 |
| ## 335 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 1.721843e-02 |
| ## 336 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | 1.496143e-02 |
| ## 337 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -1.728238e-02 |
| ## 338 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 9.743338e-03 |
| ## 339 | 0.01954288 | 0.007839742 | 0.013060446 | -1.231188e-02 | -9.186109e-02 |
| ## 340 | 0.02536191 | -0.029559746 | -0.008609525 | 2.094334e-02 | -5.098004e-02 |
| ## 342 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | 4.950638e-03 |
| ## 343 | 0.02536191 | 0.010174083 | -0.055388147 | 2.389955e-02 | 2.176891e-02 |
| ## 345 | 0.02350030 | 0.009427285 | 0.015705180 | 2.690249e-02 | -1.286666e-02 |
| ## 346 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -6.004662e-02 |
| ## 347 | 0.01927451 | 0.007732085 | -0.023768835 | 9.486485e-03 | -1.434185e-02 |
| ## 348 | 0.02353206 | 0.009440024 | -0.006646365 | 1.665016e-02 | -1.876363e-02 |
| ## 349 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.110395e-02 |
| ## 350 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 3.221791e-02 |
| ## 351 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.499513e-02 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 354 | 0.01547242 | 0.006206854 | -0.004370012 | 7.515055e-03 | 1.807662e-02 |
| ## 355 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | 6.893419e-03 |
| ## 356 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -1.668105e-02 |
| ## 357 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.758567e-02 |
| ## 358 | 0.02536191 | 0.010174083 | -0.007163188 | -4.394585e-02 | 3.993973e-03 |
| ## 359 | 0.02536191 | 0.010174083 | -0.007163188 | 2.357131e-02 | -1.006074e-02 |
| ## 361 | 0.01668830 | 0.006694612 | 0.011152743 | 7.997622e-03 | 1.927823e-02 |
| ## 362 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -4.332896e-02 |
| ## 364 | 0.02273574 | 0.009120577 | 0.015194226 | 1.089577e-02 | 2.378728e-02 |
| ## 365 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 1.420316e-02 |
| ## 366 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -2.505738e-02 |
| ## 367 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -1.888685e-02 |
| ## 368 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.158587e-02 |
| ## 369 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | -5.400231e-02 |
| ## 370 | 0.02292299 | 0.009195694 | 0.015319365 | -4.270592e-03 | 3.659569e-03 |
| ## 373 | 0.01946975 | 0.007810405 | -0.061030765 | -3.123270e-03 | -3.345804e-02 |
| ## 374 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.755431e-02 |
| ## 375 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -3.157745e-02 |
| ## 376 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.461540e-02 |
| ## 377 | 0.02536191 | 0.010174083 | -0.055388147 | 2.952598e-02 | -1.985963e-02 |
| ## 378 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -4.409792e-02 |
| ## 380 | 0.02536191 | 0.010174083 | -0.031275667 | 3.498829e-02 | -4.793479e-03 |
| ## 381 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -2.101467e-02 |
| ## 383 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.535644e-02 |
| ## 384 | 0.01453671 | -0.016942788 | -0.004934729 | 1.845393e-02 | -3.272665e-02 |
| ## 385 | 0.02536191 | 0.010174083 | 0.016949291 | -3.285712e-02 | -3.098786e-03 |
| ## 386 | 0.02241967 | 0.008993784 | 0.014982998 | 1.571800e-02 | -5.716520e-02 |
| ## 387 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -4.098518e-02 |
| ## 388 | 0.02536191 | 0.010174083 | -0.079500626 | 1.281082e-02 | -3.552304e-02 |
| ## 389 | 0.01992570 | 0.007993312 | -0.024571861 | 2.748870e-02 | -2.332824e-02 |
| ## 392 | 0.02536191 | -0.109027405 | 0.012610281 | 1.552328e-02 | -3.654214e-02 |
| ## 393 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.943945e-03 |
| ## 394 | 0.02203699 | 0.008840271 | 0.014727256 | -8.994341e-03 | 1.752379e-02 |
| ## 395 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 3.532486e-02 |
| ## 396 | 0.02434829 | 0.009767462 | -0.053174484 | 2.294438e-02 | -1.426334e-02 |
| ## 397 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.488715e-02 |
| ## 399 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 4.453435e-03 |
| ## 400 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 2.285571e-03 |
| ## 402 | 0.02536191 | 0.010174083 | -0.055388147 | 2.952598e-02 | 3.417984e-02 |
| ## 403 | 0.02536191 | 0.010174083 | -0.007163188 | -3.831942e-02 | 2.289478e-02 |
| ## 404 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 3.025810e-02 |
| ## 405 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 8.469447e-03 |
| ## 406 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 4.810526e-03 |
| ## 407 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 2.601157e-02 |
| ## 408 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | 2.227698e-02 |
| ## 411 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 4.186371e-02 |
| ## 412 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | -9.019472e-03 |
| ## 413 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.954758e-02 |
| ## 414 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -3.730361e-02 |
| ## 415 | 0.02329614 | 0.009345386 | 0.015568742 | 1.116433e-02 | -8.584787e-04 |
| ## 416 | 0.02519166 | 0.010105783 | 0.016835509 | -1.587057e-02 | 2.279933e-02 |
| ## 418 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -2.407263e-02 |
| ## 419 | 0.01300224 | 0.005215927 | 0.008689360 | 9.115624e-03 | 2.169575e-02 |
| ## 421 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.639717e-02 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 422 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | 2.866920e-02 |
| ## 423 | 0.02385328 | -0.027801412 | 0.014580775 | -5.454128e-02 | 1.029610e-02 |
| ## 424 | 0.02536191 | 0.010174083 | -0.007163188 | -1.018727e-02 | 7.038778e-03 |
| ## 425 | 0.01539312 | 0.006175043 | -0.033617202 | 2.133536e-02 | 1.443289e-02 |
| ## 426 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 2.325205e-02 |
| ## 427 | 0.02536191 | 0.010174083 | -0.007163188 | 2.919774e-02 | 7.008767e-03 |
| ## 430 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 5.556759e-05 |
| ## 431 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -4.192706e-03 |
| ## 432 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 7.923269e-03 |
| ## 433 | 0.01783583 | 0.007154950 | 0.011919632 | -7.279647e-03 | 2.868848e-02 |
| ## 434 | 0.02104717 | -0.024530836 | 0.012865483 | 7.905664e-03 | 1.315196e-02 |
| ## 435 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | 9.133386e-03 |
| ## 437 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 1.481783e-02 |
| ## 438 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 2.003924e-02 |
| ## 440 | 0.02504806 | 0.010048178 | 0.016739543 | 1.756071e-02 | -1.062321e-02 |
| ## 441 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.260659e-02 |
| ## 442 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -3.806520e-02 |
| ## 443 | 0.02451160 | 0.009832974 | 0.016381028 | 8.712384e-04 | 2.658953e-02 |
| ## 444 | 0.01965305 | 0.007883937 | -0.024235639 | -4.264652e-02 | 4.998900e-04 |
| ## 445 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | 5.230115e-03 |
| ## 446 | 0.01453844 | 0.005832182 | 0.009715996 | 3.742043e-03 | 1.411881e-02 |
| ## 449 | 0.01600693 | 0.006421277 | 0.010697385 | 1.122215e-02 | 1.180247e-03 |
| ## 450 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.044823e-02 |
| ## 451 | 0.02536191 | -0.069293576 | 0.014056618 | -6.061878e-02 | 1.767396e-02 |
| ## 452 | 0.02214090 | 0.008881952 | 0.014796694 | 1.061070e-02 | 2.122963e-02 |
| ## 453 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.626709e-02 |
| ## 454 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -4.876878e-03 |
| ## 456 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | -2.112808e-02 |
| ## 457 | 0.01775876 | 0.007124030 | -0.005015761 | 4.685840e-03 | -8.774317e-03 |
| ## 459 | 0.01450734 | -0.016908555 | -0.032510055 | 1.860440e-02 | 3.372792e-03 |
| ## 460 | 0.02536191 | 0.010174083 | -0.055388147 | 2.389955e-02 | 2.466044e-02 |
| ## 461 | 0.02475012 | 0.009928659 | 0.016540432 | 2.284254e-02 | 3.997530e-03 |
| ## 462 | 0.02536191 | -0.069293576 | -0.010055862 | -6.045465e-02 | 1.765324e-02 |
| ## 463 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 3.585976e-03 |
| ## 464 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 3.072474e-02 |
| ## 465 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 2.425769e-02 |
| ## 468 | 0.02536191 | -0.029559746 | 0.015502954 | 3.899924e-03 | 4.427204e-02 |
| ## 469 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.970112e-02 |
| ## 470 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | -2.618149e-02 |
| ## 471 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -3.791405e-02 |
| ## 472 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.268771e-02 |
| ## 473 | 0.01764044 | 0.007076568 | -0.004982345 | 1.248153e-02 | 1.199033e-02 |
| ## 475 | 0.02536191 | -0.148761235 | -0.012948535 | -6.571059e-02 | 1.459273e-02 |
| ## 476 | 0.02165560 | 0.008687274 | 0.014472374 | 1.518233e-02 | -1.354627e-02 |
| ## 478 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | 1.545284e-02 |
| ## 479 | 0.02536191 | 0.010174083 | -0.031275667 | 2.936186e-02 | 7.951894e-03 |
| ## 480 | 0.01812526 | 0.007271054 | -0.005119275 | -3.944855e-02 | 1.337981e-02 |
| ## 481 | 0.01777770 | 0.007131631 | 0.011880785 | 1.246361e-02 | 4.373605e-03 |
| ## 482 | 0.02536191 | -0.029559746 | -0.032722004 | 1.548103e-02 | 1.070784e-02 |
| ## 483 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.012456e-02 |
| ## 484 | 0.02536191 | -0.029559746 | 0.015502954 | 3.899924e-03 | 3.254529e-02 |
| ## 487 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 3.732066e-02 |
| ## 488 | 0.01433674 | 0.005751268 | 0.009581198 | 5.095839e-04 | 5.926479e-03 |
| ## 489 | 0.02536191 | 0.010174083 | -0.007163188 | 2.357131e-02 | 9.344636e-03 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 490 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -6.124627e-03 |
| ## 491 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 7.344964e-03 |
| ## 492 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 1.225476e-02 |
| ## 494 | 0.02536191 | -0.029559746 | 0.015502954 | -1.297937e-02 | -3.463088e-02 |
| ## 495 | 0.02471779 | -0.028809012 | -0.055391046 | 2.073135e-02 | 2.385785e-02 |
| ## 497 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.765440e-02 |
| ## 498 | 0.02536191 | -0.029559746 | 0.015502954 | 3.899924e-03 | -3.181158e-03 |
| ## 499 | 0.02009445 | 0.008061009 | 0.013429062 | -4.386443e-02 | 1.307604e-03 |
| ## 500 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.208437e-02 |
| ## 501 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.892056e-02 |
| ## 502 | 0.01814179 | 0.007277686 | 0.012124102 | -7.404523e-03 | -1.292196e-02 |
| ## 503 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -2.909198e-02 |
| ## 506 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.293525e-02 |
| ## 507 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.622680e-02 |
| ## 508 | 0.02536191 | -0.029559746 | -0.008609525 | 2.656977e-02 | 2.394216e-03 |
| ## 509 | 0.02536191 | 0.010174083 | 0.016949291 | -3.285712e-02 | 1.878045e-02 |
| ## 510 | 0.01429200 | 0.005733319 | 0.009551298 | 6.849228e-03 | -7.949675e-03 |
| ## 511 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.345510e-02 |
| ## 513 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 2.971578e-02 |
| ## 514 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.623653e-02 |
| ## 516 | 0.02258998 | -0.061720116 | 0.012520296 | -5.399343e-02 | 2.089327e-02 |
| ## 517 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 2.704685e-02 |
| ## 518 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.446792e-02 |
| ## 519 | 0.02536191 | -0.109027405 | -0.011502198 | -6.818319e-03 | -4.373323e-02 |
| ## 520 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.296132e-02 |
| ## 521 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.799833e-02 |
| ## 522 | 0.01912487 | 0.007672057 | -0.005401606 | -3.439234e-03 | -5.910494e-02 |
| ## 525 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | 2.628581e-02 |
| ## 526 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | 5.098107e-03 |
| ## 527 | 0.02536191 | 0.010174083 | -0.055388147 | 2.952598e-02 | -7.586693e-03 |
| ## 528 | 0.02536191 | -0.029559746 | 0.015502954 | -1.860580e-02 | -4.183706e-02 |
| ## 529 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.864089e-02 |
| ## 530 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 1.266524e-02 |
| ## 532 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -5.859685e-03 |
| ## 533 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | -9.981986e-04 |
| ## 535 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.295946e-02 |
| ## 536 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.315067e-02 |
| ## 537 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | -3.918656e-03 |
| ## 538 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 4.289112e-03 |
| ## 539 | 0.02536191 | -0.109027405 | 0.012610281 | -6.982443e-03 | 2.092922e-02 |
| ## 540 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 4.012704e-02 |
| ## 541 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.344114e-02 |
| ## 544 | 0.01393322 | 0.005589393 | 0.009311527 | -2.595782e-03 | 4.677790e-03 |
| ## 545 | 0.02034345 | 0.008160895 | -0.005745778 | 8.547341e-04 | -1.552238e-02 |
| ## 546 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -1.082813e-02 |
| ## 547 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -9.617969e-02 |
| ## 548 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.626162e-03 |
| ## 549 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -5.795429e-03 |
| ## 551 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -1.036710e-02 |
| ## 552 | 0.01644533 | 0.006597143 | 0.010990366 | -3.063794e-03 | -1.208245e-02 |
| ## 554 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.011956e-02 |
| ## 555 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 7.564061e-03 |
| ## 556 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -2.111685e-02 |
| ## 557 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -9.596026e-03 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 558 | 0.02099047 | 0.008420453 | -0.005928524 | 1.019521e-02 | 2.505523e-02 |
| ## 559 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 2.928863e-02 |
| ## 560 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -2.042241e-03 |
| ## 563 | 0.02403344 | -0.028011391 | 0.014690901 | -1.229950e-02 | -4.889197e-02 |
| ## 564 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 8.624288e-03 |
| ## 565 | 0.02536191 | 0.010174083 | -0.031275667 | 3.498829e-02 | -6.271371e-03 |
| ## 566 | 0.02490000 | 0.009988783 | -0.007032725 | 2.314200e-02 | 7.250323e-03 |
| ## 567 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | -5.871811e-04 |
| ## 568 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 6.830914e-03 |
| ## 570 | 0.02478043 | 0.009940818 | 0.016560687 | 8.807938e-04 | 2.041450e-02 |
| ## 571 | 0.02536191 | 0.010174083 | -0.055388147 | -2.673832e-02 | 1.503305e-02 |
| ## 573 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.255104e-02 |
| ## 574 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -6.283150e-03 |
| ## 575 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.416560e-02 |
| ## 576 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -8.740299e-04 |
| ## 577 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.142787e-02 |
| ## 578 | 0.01809748 | -0.021092918 | -0.006143490 | 2.899978e-03 | -5.173385e-03 |
| ## 579 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.889053e-02 |
| ## 582 | 0.02536191 | 0.010174083 | -0.079500626 | 1.281082e-02 | 2.886167e-02 |
| ## 583 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 2.189186e-03 |
| ## 584 | 0.02340573 | 0.009389346 | -0.006610685 | 6.175854e-03 | 3.030144e-02 |
| ## 585 | 0.02313561 | 0.009280987 | 0.015461456 | 1.108740e-02 | 1.743553e-02 |
| ## 586 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -3.374687e-02 |
| ## 587 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.557344e-02 |
| ## 589 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.141707e-02 |
| ## 590 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.608513e-02 |
| ## 592 | 0.02385081 | 0.009567894 | 0.015939424 | 2.201254e-02 | -1.270491e-02 |
| ## 593 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.971060e-02 |
| ## 594 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | -1.792401e-03 |
| ## 595 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -5.602660e-03 |
| ## 596 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.222159e-02 |
| ## 597 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.906380e-02 |
| ## 598 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.395151e-02 |
| ## 601 | 0.01572966 | 0.006310047 | 0.010512085 | 1.800688e-02 | -3.072695e-03 |
| ## 602 | 0.01713371 | 0.006873288 | -0.021128850 | 1.223387e-02 | -2.687228e-02 |
| ## 603 | 0.02536191 | -0.029559746 | 0.015502954 | -1.726506e-03 | 4.464810e-02 |
| ## 604 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -5.717618e-02 |
| ## 605 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.638612e-02 |
| ## 606 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.891686e-02 |
| ## 608 | 0.02104983 | -0.024533935 | -0.027158539 | -4.785865e-02 | 8.198321e-03 |
| ## 609 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 8.418355e-03 |
| ## 611 | 0.02427561 | -0.104357542 | 0.012070157 | 1.485838e-02 | 2.449737e-02 |
| ## 612 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 6.872524e-03 |
| ## 613 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.540684e-03 |
| ## 614 | 0.02536191 | -0.109027405 | 0.012610281 | 4.270417e-03 | -1.307547e-02 |
| ## 615 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | -9.858306e-03 |
| ## 616 | 0.02140916 | 0.008588412 | 0.014307677 | 5.510494e-03 | -4.343086e-02 |
| ## 617 | 0.02536191 | -0.029559746 | 0.015502954 | -2.423223e-02 | 4.036926e-02 |
| ## 620 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.122298e-02 |
| ## 621 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -2.139652e-02 |
| ## 622 | 0.01816664 | -0.078095885 | 0.009032693 | 1.111926e-02 | 5.721342e-03 |
| ## 623 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.252203e-03 |
| ## 624 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 3.083429e-02 |
| ## 625 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -5.223001e-02 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 627 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.104234e-02 |
| ## 628 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -8.794329e-02 |
| ## 630 | 0.01596709 | 0.006405291 | 0.010670755 | 7.651989e-03 | 1.806077e-02 |
| ## 631 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | -3.401513e-02 |
| ## 632 | 0.02507973 | 0.010060884 | 0.016760710 | 2.314675e-02 | 2.848239e-02 |
| ## 633 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.601192e-02 |
| ## 634 | 0.02536191 | -0.109027405 | 0.012610281 | 9.896847e-03 | -3.578055e-02 |
| ## 635 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.809996e-02 |
| ## 636 | 0.02536191 | -0.029559746 | 0.015502954 | -1.726506e-03 | -8.523904e-03 |
| ## 639 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.791511e-02 |
| ## 640 | 0.01341225 | 0.005380405 | 0.008963368 | -8.449625e-03 | -1.290536e-02 |
| ## 641 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 2.097308e-02 |
| ## 642 | 0.01994297 | 0.008000243 | -0.024593168 | -4.327565e-02 | 1.167372e-02 |
| ## 643 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.349301e-02 |
| ## 644 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | -1.195388e-02 |
| ## 646 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -1.425460e-02 |
| ## 647 | 0.02536191 | -0.029559746 | 0.015502954 | -1.726506e-03 | 1.235936e-02 |
| ## 649 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 9.660118e-03 |
| ## 650 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 1.000579e-02 |
| ## 651 | 0.01423167 | -0.016587258 | -0.004831178 | 8.594982e-03 | 1.079780e-02 |
| ## 652 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 2.398925e-02 |
| ## 653 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 1.870202e-03 |
| ## 654 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -3.528902e-02 |
| ## 655 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 9.401162e-03 |
| ## 658 | 0.01780918 | 0.007144260 | -0.038893662 | -3.853015e-02 | -1.821902e-02 |
| ## 659 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 2.836024e-02 |
| ## 660 | 0.02148327 | 0.008618141 | -0.026492619 | 5.807617e-03 | 1.631045e-02 |
| ## 661 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | -2.475983e-02 |
| ## 662 | 0.01571102 | 0.006302570 | 0.010499629 | -6.412412e-03 | -3.039197e-04 |
| ## 663 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.978802e-02 |
| ## 665 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 2.479789e-02 |
| ## 666 | 0.01508362 | 0.006050884 | 0.010080338 | -2.810104e-03 | -1.985244e-02 |
| ## 668 | 0.02536191 | 0.010174083 | 0.016949291 | 4.028647e-02 | 3.964149e-03 |
| ## 669 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.612998e-03 |
| ## 670 | 0.02536191 | -0.029559746 | -0.008609525 | 9.690478e-03 | 6.629806e-04 |
| ## 671 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.230217e-02 |
| ## 672 | 0.02536191 | -0.069293576 | -0.010055862 | 1.831537e-02 | 1.797876e-02 |
| ## 673 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -4.587725e-03 |
| ## 674 | 0.02536191 | 0.010174083 | 0.016949291 | -3.848355e-02 | -2.675455e-02 |
| ## 677 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.569352e-02 |
| ## 678 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -1.350249e-02 |
| ## 679 | 0.01904811 | 0.007641261 | 0.012729792 | 9.128523e-03 | -5.313612e-02 |
| ## 680 | 0.02536191 | -0.069293576 | 0.014056618 | -2.123377e-02 | -3.147992e-02 |
| ## 681 | 0.01448598 | 0.005811135 | -0.031636071 | 1.686437e-02 | 2.639941e-03 |
| ## 682 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 3.083339e-03 |
| ## 684 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | -2.529596e-03 |
| ## 685 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | 1.649265e-02 |
| ## 687 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | 1.587430e-02 |
| ## 688 | 0.02536191 | -0.069293576 | -0.010055862 | -1.544321e-02 | 2.781732e-02 |
| ## 689 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 1.742195e-02 |
| ## 690 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 3.732066e-02 |
| ## 691 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 2.346535e-02 |
| ## 692 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.695706e-02 |
| ## 693 | 0.02536191 | -0.069293576 | -0.010055862 | 2.956823e-02 | 3.122411e-03 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 696 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 2.448415e-02 |
| ## 697 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 3.438500e-03 |
| ## 698 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -4.032066e-03 |
| ## 699 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -7.639894e-03 |
| ## 700 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.008017e-03 |
| ## 701 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | 1.535645e-02 |
| ## 703 | 0.02536191 | -0.029559746 | 0.015502954 | -7.352937e-03 | -1.842884e-02 |
| ## 704 | 0.02235367 | -0.026053586 | -0.007588326 | -1.129519e-02 | 7.998363e-03 |
| ## 706 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.868144e-02 |
| ## 707 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | 6.318974e-03 |
| ## 708 | 0.02062560 | 0.008274084 | 0.013784029 | -8.418286e-03 | 6.969166e-03 |
| ## 709 | 0.02536191 | -0.029559746 | -0.008609525 | 2.656977e-02 | -5.039225e-02 |
| ## 710 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 5.761205e-03 |
| ## 711 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.757828e-02 |
| ## 712 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -2.573557e-02 |
| ## 715 | 0.02536191 | -0.069293576 | 0.014056618 | 2.377768e-02 | -2.115520e-02 |
| ## 716 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.648831e-02 |
| ## 717 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.375874e-02 |
| ## 718 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 2.762746e-02 |
| ## 719 | 0.02432998 | -0.028357005 | -0.008259216 | 3.898688e-03 | 4.013924e-02 |
| ## 720 | 0.01967961 | 0.007894592 | -0.005558285 | -4.283151e-02 | 1.328072e-02 |
| ## 722 | 0.02346492 | 0.009413093 | 0.015681536 | 2.686199e-02 | 5.522773e-03 |
| ## 723 | 0.02340251 | 0.009388056 | 0.015639826 | 1.121531e-02 | 1.019554e-02 |
| ## 725 | 0.02536191 | -0.069293576 | -0.010055862 | 1.831537e-02 | -3.496835e-02 |
| ## 726 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.488715e-02 |
| ## 727 | 0.02536191 | -0.109027405 | 0.012610281 | -6.324674e-02 | 2.356529e-02 |
| ## 728 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.439193e-03 |
| ## 729 | 0.02454515 | 0.009846434 | 0.016403452 | 6.317666e-03 | -1.481245e-02 |
| ## 730 | 0.02046969 | 0.008211540 | -0.005781436 | 1.902449e-02 | 1.166507e-02 |
| ## 731 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -1.034043e-01 |
| ## 734 | 0.02536191 | 0.010174083 | -0.055388147 | 2.389955e-02 | -1.394330e-05 |
| ## 735 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.777321e-03 |
| ## 736 | 0.02536191 | -0.029559746 | -0.032722004 | -1.398258e-03 | 3.066307e-02 |
| ## 737 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | -3.628150e-02 |
| ## 738 | 0.02479941 | 0.009948429 | 0.016573368 | -1.012181e-02 | -2.429269e-02 |
| ## 739 | 0.02105526 | 0.008446443 | -0.005946822 | -3.786377e-03 | -3.479747e-02 |
| ## 741 | 0.01829929 | 0.007340870 | 0.012229361 | 6.504286e-04 | 2.147327e-02 |
| ## 742 | 0.02277198 | 0.009135117 | 0.015218448 | 1.596500e-02 | -3.377417e-02 |
| ## 744 | 0.02382495 | 0.009557521 | 0.015922143 | 8.468323e-04 | -2.645917e-02 |
| ## 745 | 0.02536191 | 0.010174083 | 0.016949291 | -3.285712e-02 | 3.651516e-02 |
| ## 746 | 0.02536191 | -0.029559746 | -0.032722004 | -5.766256e-02 | 1.042394e-02 |
| ## 747 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.541412e-02 |
| ## 748 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.613990e-02 |
| ## 749 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 1.831399e-02 |
| ## 750 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 2.836024e-02 |
| ## 753 | 0.02377964 | 0.009539346 | 0.015891864 | 6.120632e-03 | -8.446236e-03 |
| ## 754 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -6.281032e-03 |
| ## 755 | 0.01565740 | 0.006281060 | 0.010463794 | 1.097710e-02 | 9.980856e-03 |
| ## 756 | 0.02372558 | 0.009517657 | 0.015855733 | -5.179086e-02 | 1.666166e-02 |
| ## 757 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.575436e-02 |
| ## 758 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.922552e-02 |
| ## 760 | 0.01887046 | 0.007569997 | -0.005329749 | 4.979175e-03 | -4.993788e-02 |
| ## 761 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 7.836546e-03 |
| ## 763 | 0.02536191 | 0.010174083 | -0.055388147 | 4.077884e-02 | 1.604642e-02 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 764 | 0.02137962 | 0.008576563 | -0.006038434 | -8.587682e-03 | -3.978962e-03 |
| ## 765 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 2.537076e-02 |
| ## 766 | 0.02536191 | 0.010174083 | -0.055388147 | -2.111189e-02 | 1.777342e-02 |
| ## 767 | 0.02536191 | 0.010174083 | -0.031275667 | 5.186758e-02 | -7.528049e-03 |
| ## 768 | 0.01726142 | -0.047161488 | -0.006844060 | 4.806772e-03 | 1.609388e-02 |
| ## 769 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -7.570391e-03 |
| ## 772 | 0.01803466 | 0.007234712 | 0.012052510 | -7.360799e-03 | 1.527782e-02 |
| ## 773 | 0.02409299 | 0.0096665045 | 0.016101271 | 2.223606e-02 | -3.311479e-03 |
| ## 774 | 0.01622497 | 0.006508745 | -0.004582562 | 4.281135e-03 | -1.253828e-02 |
| ## 775 | 0.01845809 | 0.007404572 | 0.012335484 | 6.560729e-04 | 2.423168e-02 |
| ## 776 | 0.02536191 | -0.069293576 | 0.014056618 | -4.354475e-03 | 2.011413e-02 |
| ## 777 | 0.02013917 | -0.055024046 | -0.007985072 | -1.226301e-02 | -4.115532e-02 |
| ## 779 | 0.01596643 | 0.006405030 | 0.010670320 | 5.675097e-04 | -1.771155e-02 |
| ## 780 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.970612e-02 |
| ## 782 | 0.01491933 | 0.005984978 | 0.009970543 | 5.302915e-04 | -8.631067e-03 |
| ## 783 | 0.02536191 | 0.010174083 | -0.079500626 | 2.406368e-02 | -1.182567e-02 |
| ## 784 | 0.02068067 | 0.008296174 | 0.013820830 | 7.350722e-04 | 2.138592e-02 |
| ## 785 | 0.02536191 | 0.010174083 | -0.055388147 | 4.077884e-02 | 1.781347e-02 |
| ## 786 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | -5.154618e-03 |
| ## 787 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | 7.035275e-03 |
| ## 788 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -3.859822e-02 |
| ## 791 | 0.02532403 | 0.010158885 | 0.016923972 | 2.337222e-02 | 1.095537e-02 |
| ## 792 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.171200e-02 |
| ## 793 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.688226e-02 |
| ## 794 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -1.081533e-02 |
| ## 795 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.928345e-02 |
| ## 796 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 1.908663e-02 |
| ## 798 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 2.997051e-02 |
| ## 799 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.840283e-02 |
| ## 801 | 0.02536191 | -0.069293576 | 0.014056618 | -4.354475e-03 | 1.447701e-03 |
| ## 802 | 0.02536191 | 0.010174083 | 0.016949291 | -3.848355e-02 | 3.702889e-03 |
| ## 803 | 0.02536191 | -0.109027405 | -0.011502198 | -6.818319e-03 | -1.462517e-02 |
| ## 804 | 0.02350192 | 0.009427933 | -0.073670187 | -5.069427e-02 | -4.085329e-02 |
| ## 805 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 2.937554e-02 |
| ## 806 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.446424e-02 |
| ## 807 | 0.02536191 | -0.029559746 | -0.008609525 | -1.281524e-02 | -2.041885e-02 |
| ## 810 | 0.01423411 | 0.005710099 | 0.009512614 | 1.313704e-02 | 1.200001e-02 |
| ## 811 | 0.01926629 | 0.007728788 | 0.012875606 | 4.958943e-03 | 1.133951e-02 |
| ## 812 | 0.02536191 | -0.069293576 | 0.014056618 | 1.252482e-02 | 1.599805e-02 |
| ## 813 | 0.02536191 | 0.010174083 | -0.007163188 | -3.831942e-02 | -2.224520e-02 |
| ## 814 | 0.02536191 | 0.010174083 | -0.055388147 | 2.952598e-02 | 1.213996e-02 |
| ## 815 | 0.02030826 | -0.087302440 | 0.010097537 | -5.064410e-02 | 1.886964e-02 |
| ## 817 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | -4.411811e-03 |
| ## 818 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -1.500732e-01 |
| ## 820 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 3.177972e-03 |
| ## 821 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -6.643923e-03 |
| ## 822 | 0.02536191 | 0.010174083 | -0.055388147 | 2.389955e-02 | 1.666054e-02 |
| ## 823 | 0.02536191 | 0.010174083 | -0.031275667 | 4.061472e-02 | -9.329443e-05 |
| ## 824 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.625761e-02 |
| ## 825 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.058990e-02 |
| ## 826 | 0.02502366 | -0.029165508 | 0.015296191 | 3.847910e-03 | -3.452134e-02 |
| ## 829 | 0.01956364 | 0.007848070 | -0.005525530 | -4.257911e-02 | -2.932505e-02 |
| ## 830 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | -5.370399e-03 |
| ## 831 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.381929e-02 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 832 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 2.922788e-02 |
| ## 833 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | -3.525496e-02 |
| ## 834 | 0.02536191 | 0.010174083 | -0.055388147 | -9.859026e-03 | -4.328313e-02 |
| ## 836 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -3.707102e-03 |
| ## 837 | 0.02523497 | 0.010123157 | 0.016864453 | -5.508572e-02 | 1.896838e-02 |
| ## 839 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -1.947974e-03 |
| ## 840 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 2.051192e-03 |
| ## 841 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.842124e-02 |
| ## 842 | 0.02536191 | -0.109027405 | -0.011502198 | 1.006097e-02 | 1.990886e-02 |
| ## 843 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -5.699044e-03 |
| ## 844 | 0.01942599 | 0.007792852 | 0.012982331 | -4.240524e-02 | 1.221491e-02 |
| ## 845 | 0.02536191 | 0.010174083 | -0.007163188 | -1.581370e-02 | 2.473188e-02 |
| ## 848 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -4.036300e-03 |
| ## 849 | 0.02055170 | -0.023953354 | -0.026515848 | -2.392958e-02 | -2.424015e-02 |
| ## 850 | 0.01904152 | 0.007638620 | -0.023481522 | 9.232565e-04 | 1.987686e-02 |
| ## 851 | 0.01860659 | 0.007464145 | 0.012434728 | -1.584981e-02 | 1.912498e-03 |
| ## 852 | 0.02332528 | 0.009357076 | -0.050940328 | -5.046422e-02 | 6.247484e-03 |
| ## 853 | 0.02536191 | 0.010174083 | 0.016949291 | 4.028647e-02 | 3.808419e-02 |
| ## 855 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | 9.497205e-04 |
| ## 856 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.505571e-02 |
| ## 858 | 0.01714753 | 0.006878835 | 0.011459645 | 8.217702e-03 | -5.801792e-03 |
| ## 859 | 0.02536191 | 0.010174083 | -0.079500626 | 2.406368e-02 | -2.862867e-02 |
| ## 860 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 5.527707e-04 |
| ## 861 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -4.434546e-02 |
| ## 862 | 0.01632315 | 0.006548131 | -0.035648305 | 1.538197e-02 | 6.794065e-03 |
| ## 863 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.358730e-02 |
| ## 864 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.943961e-02 |
| ## 867 | 0.02087684 | -0.024332314 | 0.012761366 | 7.841685e-03 | 1.333643e-02 |
| ## 868 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -4.410238e-03 |
| ## 869 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | -3.401145e-02 |
| ## 870 | 0.02536191 | -0.029559746 | -0.008609525 | 2.094334e-02 | 3.717946e-02 |
| ## 871 | 0.02332174 | 0.009355657 | -0.006586965 | 3.719666e-02 | 2.740885e-02 |
| ## 872 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -5.345456e-03 |
| ## 874 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -7.874273e-03 |
| ## 875 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -2.512706e-02 |
| ## 877 | 0.01874348 | 0.007519058 | 0.012526211 | 8.982535e-03 | -6.650445e-03 |
| ## 878 | 0.02084354 | -0.024293501 | -0.026892384 | -1.149150e-03 | -7.593859e-03 |
| ## 879 | 0.01966450 | 0.007888530 | 0.013141724 | 5.061436e-03 | 1.070201e-02 |
| ## 880 | 0.02053891 | 0.008239305 | 0.013726089 | 9.842967e-03 | 1.170593e-02 |
| ## 881 | 0.02536191 | 0.010174083 | -0.031275667 | -1.564958e-02 | -1.564173e-02 |
| ## 882 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -1.552076e-02 |
| ## 883 | 0.01951167 | 0.007827224 | 0.013039593 | 5.022101e-03 | -1.357921e-02 |
| ## 886 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -2.687128e-02 |
| ## 887 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -5.713033e-02 |
| ## 888 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -7.333895e-03 |
| ## 889 | 0.02536191 | 0.010174083 | -0.031275667 | 2.936186e-02 | -1.408798e-02 |
| ## 890 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | 1.655099e-02 |
| ## 891 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 7.460312e-03 |
| ## 893 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.397767e-03 |
| ## 894 | 0.02053084 | 0.008236069 | -0.064356919 | 2.403458e-02 | 1.025284e-02 |
| ## 896 | 0.01889150 | 0.007578438 | -0.023296519 | 1.767997e-02 | -5.666715e-03 |
| ## 897 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.188583e-02 |
| ## 898 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -1.981120e-02 |
| ## 899 | 0.02536191 | -0.069293576 | 0.014056618 | -1.560734e-02 | 1.418359e-02 |

| | | | | | |
|--------|------------|--------------|--------------|---------------|---------------|
| ## 900 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | -8.537551e-03 |
| ## 901 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 6.088286e-03 |
| ## 902 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.612094e-02 |
| ## 905 | 0.02536191 | -0.029559746 | -0.032722004 | 3.236032e-02 | 4.331418e-02 |
| ## 906 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 1.227971e-02 |
| ## 907 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 1.180497e-02 |
| ## 908 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.766889e-02 |
| ## 909 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -4.011616e-02 |
| ## 910 | 0.02536191 | 0.010174083 | -0.007163188 | -1.018727e-02 | -1.127424e-02 |
| ## 912 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 5.381467e-03 |
| ## 913 | 0.02536191 | -0.069293576 | 0.014056618 | 2.377768e-02 | -1.100272e-02 |
| ## 915 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | -2.846627e-02 |
| ## 916 | 0.01613067 | 0.006470915 | 0.010780079 | -3.005172e-03 | -1.109521e-02 |
| ## 917 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | 2.316358e-02 |
| ## 918 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 1.994267e-02 |
| ## 919 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 2.170640e-02 |
| ## 920 | 0.01688850 | 0.006774922 | -0.036882967 | 1.591471e-02 | 1.199281e-02 |
| ## 921 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.015728e-03 |
| ## 924 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 3.396703e-03 |
| ## 925 | 0.02536191 | -0.069293576 | -0.010055862 | -9.816781e-03 | 6.043950e-03 |
| ## 926 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -9.490160e-03 |
| ## 927 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | -5.388105e-02 |
| ## 928 | 0.01841022 | 0.007385369 | 0.012303494 | -1.159831e-02 | -1.027478e-02 |
| ## 929 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 4.922192e-03 |
| ## 931 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.370633e-02 |
| ## 932 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.893953e-02 |
| ## 934 | 0.02536191 | -0.069293576 | -0.010055862 | 2.394180e-02 | 1.487181e-02 |
| ## 935 | 0.02497362 | 0.010018315 | -0.030796828 | -5.419200e-02 | 1.050572e-02 |
| ## 936 | 0.02536191 | -0.069293576 | -0.010055862 | 1.268894e-02 | 2.988880e-02 |
| ## 937 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 4.122694e-02 |
| ## 938 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.280674e-02 |
| ## 939 | 0.01345476 | -0.057840181 | 0.006689886 | 1.718990e-02 | 6.485293e-03 |
| ## 940 | 0.02536191 | -0.029559746 | 0.015502954 | 1.515278e-02 | 2.806632e-02 |
| ## 943 | 0.02536191 | 0.010174083 | -0.055388147 | 2.952598e-02 | 3.363366e-02 |
| ## 944 | 0.01199213 | 0.004810716 | 0.008014308 | -2.617778e-02 | 8.102646e-03 |
| ## 945 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 1.140452e-02 |
| ## 946 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 1.733873e-02 |
| ## 947 | 0.01226324 | 0.004919471 | 0.008195485 | 4.358836e-04 | 2.075958e-02 |
| ## 948 | 0.02146893 | 0.008612391 | -0.026474943 | 1.056653e-02 | 1.269046e-02 |
| ## 950 | 0.02536191 | -0.148761235 | -0.012948535 | -6.571059e-02 | 1.484469e-03 |
| ## 951 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | 7.736106e-03 |
| ## 953 | 0.02536191 | 0.010174083 | -0.055388147 | 1.393834e-03 | -4.631633e-02 |
| ## 954 | 0.02536191 | -0.029559746 | -0.008609525 | -1.562382e-03 | -9.958256e-03 |
| ## 955 | 0.02185382 | 0.008766791 | 0.014604844 | -4.071405e-03 | -1.511484e-02 |
| ## 956 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | -1.378566e-02 |
| ## 957 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -9.218227e-03 |
| ## 958 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.708556e-02 |
| ## 959 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 3.703501e-02 |
| ## 962 | 0.02536191 | -0.029559746 | -0.032722004 | 1.548103e-02 | 3.928813e-03 |
| ## 963 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.419325e-02 |
| ## 964 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.710242e-02 |
| ## 965 | 0.02536191 | -0.029559746 | 0.015502954 | 1.515278e-02 | -3.869012e-03 |
| ## 966 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.111343e-02 |
| ## 967 | 0.01917017 | 0.007690226 | -0.005414399 | -7.700197e-03 | -3.045068e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 969 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.575514e-02 |
| ## 970 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.659179e-02 |
| ## 972 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 6.906583e-03 |
| ## 973 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -5.946464e-02 |
| ## 974 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -3.735548e-03 |
| ## 975 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 4.614254e-02 |
| ## 976 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -3.113888e-03 |
| ## 977 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 2.293289e-02 |
| ## 978 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | -2.218771e-04 |
| ## 981 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -4.044848e-02 |
| ## 982 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 2.716993e-02 |
| ## 983 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -8.195554e-03 |
| ## 984 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.508556e-03 |
| ## 985 | 0.01589537 | 0.006376522 | 0.010622827 | 5.649838e-04 | -2.248794e-03 |
| ## 986 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.637068e-03 |
| ## 988 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.948175e-02 |
| ## 989 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.095489e-02 |
| ## 991 | 0.02536191 | -0.069293576 | -0.010055862 | 1.831537e-02 | -4.478785e-03 |
| ## 992 | 0.02536191 | -0.069293576 | 0.014056618 | 1.252482e-02 | 2.232728e-02 |
| ## 993 | 0.02536191 | 0.010174083 | -0.031275667 | 3.498829e-02 | -1.558852e-02 |
| ## 994 | 0.01673111 | 0.006711786 | 0.011181354 | 5.946895e-04 | 9.438433e-03 |
| ## 995 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 2.823964e-02 |
| ## 996 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 2.034893e-02 |
| ## 997 | 0.02037013 | 0.008171601 | -0.005753316 | -3.663170e-03 | 1.403251e-03 |
| ## 1000 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -4.300362e-04 |
| ## 1001 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 4.530855e-03 |
| ## 1002 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | 8.324197e-03 |
| ## 1003 | 0.02536191 | -0.109027405 | 0.012610281 | -6.324674e-02 | 2.388657e-02 |
| ## 1004 | 0.02536191 | -0.029559746 | -0.008609525 | -7.188812e-03 | 1.358216e-02 |
| ## 1005 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -1.762570e-03 |
| ## 1007 | 0.02507446 | 0.010058768 | -0.054760365 | 1.806601e-02 | 3.343819e-03 |
| ## 1008 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.782953e-02 |
| ## 1010 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 3.985492e-02 |
| ## 1011 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -4.886236e-02 |
| ## 1012 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 2.002028e-02 |
| ## 1013 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 3.223632e-02 |
| ## 1014 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.084009e-02 |
| ## 1015 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.288257e-02 |
| ## 1016 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 2.836024e-02 |
| ## 1019 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -4.416430e-02 |
| ## 1020 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.269255e-03 |
| ## 1021 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.900878e-02 |
| ## 1022 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -3.500935e-02 |
| ## 1023 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 1.583028e-02 |
| ## 1024 | 0.02224617 | 0.008924183 | 0.014867048 | -1.895015e-02 | -3.742060e-02 |
| ## 1026 | 0.01899160 | 0.007618592 | 0.012692026 | 9.101441e-03 | 7.095027e-03 |
| ## 1027 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 5.366365e-03 |
| ## 1029 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.508916e-02 |
| ## 1030 | 0.02536191 | -0.029559746 | -0.008609525 | -1.281524e-02 | 1.688187e-02 |
| ## 1031 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.830197e-02 |
| ## 1032 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.847577e-02 |
| ## 1033 | 0.01497601 | 0.006007717 | 0.010008424 | -1.275715e-02 | 6.832344e-03 |
| ## 1034 | 0.02161510 | -0.025192767 | -0.007337605 | -6.126780e-03 | -1.432746e-02 |
| ## 1035 | 0.02536191 | 0.010174083 | -0.007163188 | -1.581370e-02 | 2.685233e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1038 | 0.02034265 | -0.023709706 | -0.006905651 | 7.772678e-03 | 2.795080e-02 |
| ## 1039 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 2.155893e-02 |
| ## 1040 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.210940e-02 |
| ## 1041 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 1.015345e-02 |
| ## 1042 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.331263e-02 |
| ## 1043 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | -8.178715e-03 |
| ## 1045 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 2.462408e-02 |
| ## 1046 | 0.02536191 | -0.029559746 | 0.039615433 | 9.362230e-03 | 2.573220e-02 |
| ## 1048 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -7.510522e-02 |
| ## 1049 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -1.760909e-02 |
| ## 1050 | 0.02409342 | 0.009665217 | 0.016101557 | 2.758147e-02 | 1.519331e-02 |
| ## 1051 | 0.01838815 | 0.007376517 | 0.012288747 | 6.535871e-04 | -3.418791e-02 |
| ## 1052 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 2.562778e-02 |
| ## 1053 | 0.02320892 | 0.009310395 | 0.015510448 | -5.066303e-02 | 9.801272e-03 |
| ## 1054 | 0.01983397 | -0.054190185 | 0.010992804 | 1.859504e-02 | 7.375203e-03 |
| ## 1057 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 2.408739e-02 |
| ## 1058 | 0.02536191 | -0.029559746 | -0.008609525 | -1.844167e-02 | -5.027534e-02 |
| ## 1059 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | -1.567560e-02 |
| ## 1060 | 0.02536191 | -0.069293576 | 0.014056618 | -1.560734e-02 | -5.177539e-02 |
| ## 1061 | 0.02025961 | 0.008127263 | 0.013539435 | 1.420362e-02 | 1.414645e-02 |
| ## 1062 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | 1.111554e-02 |
| ## 1064 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 2.076328e-02 |
| ## 1065 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | -1.263522e-02 |
| ## 1067 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | -4.041938e-02 |
| ## 1068 | 0.01497690 | 0.006008071 | 0.010009015 | 7.177456e-03 | -1.201131e-02 |
| ## 1069 | 0.02203926 | 0.008841180 | -0.069085277 | 2.091110e-02 | -2.258868e-02 |
| ## 1070 | 0.02536191 | 0.010174083 | -0.055388147 | -4.232596e-03 | 7.418495e-04 |
| ## 1071 | 0.02536191 | -0.109027405 | 0.084947718 | -7.474816e-03 | 4.656534e-02 |
| ## 1072 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.719065e-02 |
| ## 1073 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 6.445377e-03 |
| ## 1076 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.723094e-02 |
| ## 1077 | 0.02536191 | -0.069293576 | 0.014056618 | -4.354475e-03 | 3.479667e-02 |
| ## 1078 | 0.02067002 | 0.008291903 | 0.013813714 | 1.449136e-02 | -1.913548e-02 |
| ## 1079 | 0.02404809 | -0.028028463 | 0.014699855 | -1.637068e-03 | -3.105202e-02 |
| ## 1080 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -1.817266e-02 |
| ## 1081 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 2.885780e-02 |
| ## 1083 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.463330e-02 |
| ## 1084 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.504623e-02 |
| ## 1086 | 0.02264826 | 0.009085486 | 0.015135766 | -4.943918e-02 | -3.518357e-03 |
| ## 1087 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.165381e-02 |
| ## 1088 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.227461e-03 |
| ## 1089 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -1.502567e-02 |
| ## 1090 | 0.02222221 | 0.008914572 | 0.014851035 | 7.898645e-04 | 3.105588e-03 |
| ## 1091 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.086141e-02 |
| ## 1092 | 0.01525068 | 0.006117900 | -0.018806746 | 4.122748e-03 | -2.221094e-02 |
| ## 1095 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 4.309037e-02 |
| ## 1096 | 0.01767964 | 0.007092291 | 0.011815247 | 6.284036e-04 | -2.617411e-02 |
| ## 1097 | 0.02520107 | 0.010109560 | -0.007117760 | 2.901257e-02 | -2.984445e-02 |
| ## 1098 | 0.01905364 | -0.022207347 | -0.006468077 | 1.150713e-02 | -4.846851e-02 |
| ## 1099 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -9.068812e-03 |
| ## 1100 | 0.01891313 | -0.022043583 | -0.006420379 | 2.820546e-02 | -5.316208e-03 |
| ## 1102 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -8.802306e-03 |
| ## 1103 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 5.396065e-04 |
| ## 1105 | 0.02536191 | -0.069293576 | -0.010055862 | 7.062509e-03 | 1.988748e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1106 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 1.722743e-02 |
| ## 1107 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -4.642257e-02 |
| ## 1108 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.440840e-02 |
| ## 1109 | 0.02536191 | 0.010174083 | -0.007163188 | -3.269299e-02 | 1.027792e-02 |
| ## 1110 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.686937e-02 |
| ## 1111 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.938352e-02 |
| ## 1114 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.064600e-02 |
| ## 1115 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.216550e-02 |
| ## 1116 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -6.422696e-02 |
| ## 1117 | 0.02536191 | 0.010174083 | -0.055388147 | -9.859026e-03 | 2.916573e-02 |
| ## 1118 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.064677e-02 |
| ## 1119 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.881970e-02 |
| ## 1121 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | 1.939892e-03 |
| ## 1122 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | 2.510425e-02 |
| ## 1124 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.869119e-02 |
| ## 1125 | 0.02424315 | 0.009725283 | -0.029896033 | 1.175465e-03 | 4.761113e-03 |
| ## 1126 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.063151e-02 |
| ## 1127 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.682275e-02 |
| ## 1128 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -1.083586e-02 |
| ## 1129 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 2.624064e-03 |
| ## 1130 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -2.865747e-02 |
| ## 1133 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 3.010482e-02 |
| ## 1134 | 0.02536191 | 0.010174083 | -0.055388147 | -4.361761e-02 | -1.028021e-02 |
| ## 1135 | 0.02293785 | -0.026734461 | -0.007786637 | -5.229968e-02 | -9.561610e-04 |
| ## 1136 | 0.01751060 | 0.007024480 | -0.004945672 | 8.505010e-03 | -3.698537e-03 |
| ## 1137 | 0.01384352 | -0.016134858 | -0.004699413 | 5.289439e-03 | -3.081849e-02 |
| ## 1138 | 0.02536191 | -0.029559746 | -0.008609525 | -1.281524e-02 | 2.288983e-02 |
| ## 1140 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.761779e-02 |
| ## 1141 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 3.075422e-03 |
| ## 1143 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -2.242462e-02 |
| ## 1144 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -1.384273e-02 |
| ## 1145 | 0.01782943 | 0.007152384 | 0.011915358 | 8.544493e-03 | 6.818961e-03 |
| ## 1146 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | -2.829585e-02 |
| ## 1147 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -2.473784e-02 |
| ## 1148 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -4.937452e-03 |
| ## 1149 | 0.02536191 | -0.029559746 | 0.039615433 | 1.498866e-02 | 3.701807e-03 |
| ## 1152 | 0.01880404 | 0.007543351 | -0.005310989 | 7.900554e-04 | -5.538199e-05 |
| ## 1153 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 3.946008e-02 |
| ## 1154 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 4.398114e-02 |
| ## 1155 | 0.01874046 | 0.007517846 | 0.012524190 | 1.313857e-02 | 2.234434e-02 |
| ## 1156 | 0.02380501 | 0.009549523 | 0.015908818 | -5.196426e-02 | 1.608418e-02 |
| ## 1157 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 8.758600e-03 |
| ## 1159 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.228477e-02 |
| ## 1160 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 2.464988e-03 |
| ## 1162 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 1.712205e-02 |
| ## 1163 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -1.972006e-03 |
| ## 1164 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -8.114451e-03 |
| ## 1165 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | -4.069730e-02 |
| ## 1166 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | -1.941808e-03 |
| ## 1167 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.985728e-02 |
| ## 1168 | 0.02536191 | -0.029559746 | 0.015502954 | -1.860580e-02 | -3.451185e-02 |
| ## 1171 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -3.040555e-02 |
| ## 1172 | 0.02465432 | 0.009890228 | -0.053842829 | 2.323276e-02 | 2.584632e-02 |
| ## 1173 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | -4.249327e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1174 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -6.432191e-03 |
| ## 1175 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 1.647284e-02 |
| ## 1176 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -4.763938e-02 |
| ## 1178 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -4.963780e-03 |
| ## 1179 | 0.02536191 | -0.029559746 | -0.008609525 | -1.562382e-03 | 6.009409e-03 |
| ## 1181 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | -1.873569e-02 |
| ## 1182 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -6.344272e-02 |
| ## 1183 | 0.01711200 | 0.006864582 | -0.021102086 | 4.625924e-03 | -2.167018e-02 |
| ## 1184 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -1.950464e-02 |
| ## 1185 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -1.891317e-02 |
| ## 1186 | 0.02229158 | -0.060904835 | -0.008838490 | -3.683063e-03 | 1.246881e-04 |
| ## 1187 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 1.924202e-02 |
| ## 1190 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.907398e-03 |
| ## 1191 | 0.01805538 | -0.021043853 | 0.011036694 | 2.776391e-03 | 1.628473e-02 |
| ## 1192 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.836490e-02 |
| ## 1193 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | -2.464128e-02 |
| ## 1194 | 0.01678925 | -0.045871434 | -0.006656848 | -6.498580e-03 | 1.848478e-02 |
| ## 1195 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 7.386574e-03 |
| ## 1197 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.407870e-02 |
| ## 1198 | 0.02456654 | -0.028632721 | 0.015016765 | -5.617215e-02 | 3.226386e-02 |
| ## 1200 | 0.01387504 | 0.005566055 | 0.009272648 | -2.584944e-03 | -1.334028e-02 |
| ## 1201 | 0.02536191 | -0.029559746 | 0.015502954 | 1.515278e-02 | 3.327107e-02 |
| ## 1202 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 2.161564e-02 |
| ## 1203 | 0.01996092 | 0.008007441 | 0.013339822 | 5.137732e-03 | -2.805213e-02 |
| ## 1204 | 0.02047871 | 0.008215156 | 0.013685860 | -3.815219e-03 | -3.590326e-02 |
| ## 1205 | 0.01970917 | 0.007906449 | -0.005566633 | -1.666149e-02 | -4.306993e-03 |
| ## 1206 | 0.01658845 | 0.006654555 | 0.011086010 | -1.045061e-02 | 4.779307e-03 |
| ## 1209 | 0.02432803 | 0.009759335 | -0.030000711 | -9.614555e-03 | 1.708695e-02 |
| ## 1210 | 0.02481794 | 0.009955864 | 0.016585754 | -5.417539e-02 | 1.393906e-02 |
| ## 1211 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 3.223632e-02 |
| ## 1212 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | -1.443596e-02 |
| ## 1213 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.763912e-02 |
| ## 1214 | 0.02498597 | 0.010023270 | -0.007057007 | -1.557929e-02 | 1.490137e-02 |
| ## 1216 | 0.01975885 | 0.007926379 | 0.013204777 | -4.313183e-02 | 8.494467e-03 |
| ## 1217 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -4.069603e-02 |
| ## 1219 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.977486e-02 |
| ## 1220 | 0.02523615 | 0.010123630 | 0.016865241 | 1.769258e-02 | 2.340771e-02 |
| ## 1221 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.033420e-02 |
| ## 1222 | 0.02536191 | 0.010174083 | -0.055388147 | 5.203170e-02 | 1.911756e-02 |
| ## 1223 | 0.02536191 | -0.069293576 | 0.014056618 | 6.898385e-03 | 1.370747e-02 |
| ## 1224 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 6.171132e-03 |
| ## 1225 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 3.123704e-02 |
| ## 1228 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | 2.885025e-02 |
| ## 1229 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | -1.695143e-02 |
| ## 1230 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 2.500612e-02 |
| ## 1231 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.924894e-02 |
| ## 1232 | 0.02536191 | -0.029559746 | -0.008609525 | 2.094334e-02 | -8.918035e-02 |
| ## 1233 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.053513e-02 |
| ## 1235 | 0.02536191 | 0.010174083 | -0.079500626 | 1.843725e-02 | -7.465731e-03 |
| ## 1236 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.417641e-02 |
| ## 1238 | 0.02536191 | 0.010174083 | -0.031275667 | 2.936186e-02 | 1.662648e-02 |
| ## 1239 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | -1.709486e-02 |
| ## 1240 | 0.02536191 | 0.010174083 | -0.055388147 | 4.077884e-02 | -2.250729e-02 |
| ## 1241 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.469991e-02 |

| | | | | | |
|---------|-------------|--------------|--------------|---------------|---------------|
| ## 1242 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 2.823964e-02 |
| ## 1243 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 4.702543e-03 |
| ## 1244 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 2.548574e-03 |
| ## 1247 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | -5.069467e-03 |
| ## 1248 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 3.494300e-02 |
| ## 1249 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.847209e-02 |
| ## 1250 | 0.02536191 | -0.029559746 | -0.008609525 | -1.562382e-03 | 2.759949e-02 |
| ## 1251 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.807943e-02 |
| ## 1252 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -1.309642e-02 |
| ## 1254 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 4.678332e-03 |
| ## 1255 | 0.02307912 | 0.009258327 | 0.015423708 | 8.203226e-04 | 2.126413e-02 |
| ## 1257 | 0.02328633 | -0.027140615 | -0.007904933 | 1.406339e-02 | 8.847588e-03 |
| ## 1258 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.448108e-02 |
| ## 1259 | 0.02536191 | -0.069293576 | 0.014056618 | -4.354475e-03 | -1.027905e-02 |
| ## 1260 | 0.02102346 | 0.008433685 | 0.014049913 | 1.940311e-02 | 8.908482e-03 |
| ## 1261 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.697523e-02 |
| ## 1262 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.649355e-02 |
| ## 1263 | 0.019111417 | 0.0076677761 | 0.012773939 | 4.919787e-03 | 3.316323e-02 |
| ## 1266 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.305585e-02 |
| ## 1267 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 3.223632e-02 |
| ## 1268 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -3.745030e-03 |
| ## 1269 | 0.02273657 | 0.009120911 | 0.015194782 | -4.963195e-02 | 1.593832e-02 |
| ## 1270 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 2.950037e-02 |
| ## 1271 | 0.02536191 | -0.029559746 | 0.015502954 | -1.860580e-02 | 3.463559e-03 |
| ## 1273 | 0.02500967 | 0.010032780 | -0.078396476 | -5.394655e-02 | -7.737051e-03 |
| ## 1274 | 0.02536191 | 0.010174083 | -0.007163188 | -1.581370e-02 | 2.813746e-02 |
| ## 1276 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 7.662562e-03 |
| ## 1277 | 0.02536191 | 0.010174083 | 0.016949291 | -3.848355e-02 | 2.098781e-02 |
| ## 1278 | 0.02536191 | 0.010174083 | -0.103613105 | 2.422780e-02 | -5.195870e-03 |
| ## 1279 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 2.034893e-02 |
| ## 1280 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -4.606510e-02 |
| ## 1281 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.749376e-02 |
| ## 1282 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.334500e-02 |
| ## 1285 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | -5.260002e-03 |
| ## 1286 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 2.494536e-02 |
| ## 1287 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.099994e-02 |
| ## 1288 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | -9.036871e-03 |
| ## 1289 | 0.01991927 | 0.007990734 | 0.013311988 | 5.127012e-03 | 1.099206e-02 |
| ## 1290 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.584707e-02 |
| ## 1292 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | -2.244359e-02 |
| ## 1293 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 8.718555e-03 |
| ## 1295 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -1.542245e-02 |
| ## 1296 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -5.842494e-02 |
| ## 1297 | 0.02536191 | -0.069293576 | 0.014056618 | 1.815125e-02 | 2.853749e-02 |
| ## 1298 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 7.121998e-03 |
| ## 1299 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.547469e-02 |
| ## 1300 | 0.02536191 | -0.029559746 | -0.032722004 | 3.798675e-02 | 3.715507e-02 |
| ## 1301 | 0.02439071 | 0.009784479 | 0.016300239 | 2.251083e-02 | 7.183747e-03 |
| ## 1304 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 1.312221e-02 |
| ## 1305 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | 3.232987e-02 |
| ## 1306 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -9.336714e-02 |
| ## 1307 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 8.433637e-03 |
| ## 1308 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.310906e-02 |
| ## 1309 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -4.834095e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1311 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 4.470281e-03 |
| ## 1312 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.423912e-03 |
| ## 1314 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.260581e-02 |
| ## 1315 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -1.911368e-02 |
| ## 1316 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 8.811623e-03 |
| ## 1317 | 0.02536191 | 0.010174083 | -0.079500626 | 2.406368e-02 | -4.844521e-04 |
| ## 1318 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | -6.400257e-03 |
| ## 1319 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 1.262538e-02 |
| ## 1320 | 0.02536191 | 0.010174083 | -0.031275667 | 2.936186e-02 | 2.607214e-02 |
| ## 1323 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 3.147317e-02 |
| ## 1324 | 0.02536191 | -0.069293576 | 0.014056618 | 1.252482e-02 | 1.797428e-03 |
| ## 1325 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -4.938009e-02 |
| ## 1326 | 0.02160847 | -0.059038459 | -0.008567642 | 6.017292e-03 | 2.239151e-02 |
| ## 1327 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.093647e-02 |
| ## 1328 | 0.02536191 | -0.029559746 | -0.008609525 | -1.844167e-02 | -4.256459e-02 |
| ## 1330 | 0.02536191 | 0.010174083 | -0.007163188 | 2.357131e-02 | 1.496705e-02 |
| ## 1331 | 0.02189331 | -0.025517023 | 0.013382701 | 2.279429e-02 | -1.853590e-03 |
| ## 1333 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.669868e-03 |
| ## 1334 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 3.609013e-02 |
| ## 1335 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 2.434422e-02 |
| ## 1336 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | 7.985774e-03 |
| ## 1337 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 3.223632e-02 |
| ## 1338 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.093725e-02 |
| ## 1339 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -3.263556e-02 |
| ## 1342 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -4.466764e-03 |
| ## 1343 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 1.636716e-02 |
| ## 1344 | 0.01986817 | 0.007970234 | 0.013277836 | 7.061926e-04 | -6.872767e-02 |
| ## 1345 | 0.02536191 | 0.010174083 | -0.055388147 | -4.232596e-03 | -3.990020e-02 |
| ## 1346 | 0.02536191 | 0.010174083 | -0.055388147 | 1.393834e-03 | 1.136869e-03 |
| ## 1347 | 0.02536191 | -0.029559746 | 0.015502954 | -7.352937e-03 | 7.177254e-03 |
| ## 1349 | 0.01822072 | 0.007309350 | -0.005146238 | -7.318827e-03 | 1.027333e-02 |
| ## 1350 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -8.667994e-03 |
| ## 1352 | 0.02284983 | 0.009166347 | 0.015270475 | -4.256963e-03 | 1.479204e-02 |
| ## 1353 | 0.02536191 | -0.029559746 | -0.008609525 | 9.690478e-03 | -2.921615e-02 |
| ## 1354 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -6.762954e-03 |
| ## 1355 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 5.207289e-03 |
| ## 1356 | 0.02536191 | -0.069293576 | -0.034168341 | 2.973235e-02 | 4.502886e-02 |
| ## 1357 | 0.01357056 | 0.005443911 | -0.016734870 | 1.571084e-02 | 7.486776e-03 |
| ## 1358 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.822691e-02 |
| ## 1361 | 0.02536191 | -0.069293576 | 0.014056618 | 1.271955e-03 | -6.446329e-03 |
| ## 1362 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -2.750822e-02 |
| ## 1363 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -2.021533e-03 |
| ## 1364 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 7.945139e-04 |
| ## 1365 | 0.02381277 | 0.009552634 | -0.006725650 | 2.741429e-02 | 1.240263e-02 |
| ## 1366 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 3.698972e-02 |
| ## 1368 | 0.02536191 | -0.029559746 | -0.008609525 | 3.219620e-02 | -9.015735e-02 |
| ## 1369 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 2.241322e-02 |
| ## 1371 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | -1.945742e-02 |
| ## 1372 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | -1.577990e-02 |
| ## 1373 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -1.421281e-02 |
| ## 1374 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -4.275996e-02 |
| ## 1375 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.189977e-02 |
| ## 1376 | 0.02065283 | 0.008285005 | 0.013802223 | 1.447930e-02 | -9.831806e-03 |
| ## 1377 | 0.01109281 | -0.047686467 | 0.005515492 | 6.789579e-03 | 1.408890e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1380 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 4.302938e-03 |
| ## 1381 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.614806e-02 |
| ## 1382 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -4.115286e-03 |
| ## 1383 | 0.01949604 | 0.007820954 | 0.013029147 | 1.366830e-02 | -8.861263e-03 |
| ## 1384 | 0.02228786 | -0.025976880 | -0.007565985 | 2.829377e-02 | 8.944962e-03 |
| ## 1385 | 0.01799453 | 0.007218612 | 0.012025688 | 8.623611e-03 | 3.348845e-03 |
| ## 1387 | 0.02536191 | 0.010174083 | -0.031275667 | -4.396720e-03 | -2.143795e-02 |
| ## 1388 | 0.02536191 | -0.029559746 | -0.008609525 | -1.281524e-02 | -3.921379e-02 |
| ## 1390 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | -2.181401e-02 |
| ## 1391 | 0.02536191 | -0.069293576 | 0.014056618 | 6.898385e-03 | 3.522864e-03 |
| ## 1392 | 0.01456597 | 0.005843225 | 0.009734393 | 6.980525e-03 | 6.142842e-03 |
| ## 1393 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -1.046928e-02 |
| ## 1394 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -3.459537e-02 |
| ## 1395 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 6.175188e-03 |
| ## 1396 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.865983e-02 |
| ## 1399 | 0.02408330 | 0.009661158 | -0.029698908 | -5.226003e-02 | 2.324978e-02 |
| ## 1400 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 7.184323e-03 |
| ## 1401 | 0.02536191 | -0.029559746 | -0.032722004 | 2.110746e-02 | 3.399480e-04 |
| ## 1402 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -9.188925e-02 |
| ## 1403 | 0.02536191 | -0.069293576 | 0.014056618 | -9.980905e-03 | -2.500321e-02 |
| ## 1404 | 0.02529323 | 0.010146529 | -0.031190964 | 2.367115e-02 | -5.119820e-03 |
| ## 1406 | 0.02536191 | -0.029559746 | -0.008609525 | 9.690478e-03 | 1.650213e-02 |
| ## 1407 | 0.02536191 | -0.029559746 | -0.032722004 | 2.110746e-02 | 2.492531e-03 |
| ## 1409 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 3.936544e-02 |
| ## 1410 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.342297e-02 |
| ## 1411 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 2.323309e-02 |
| ## 1412 | 0.02396345 | 0.009613081 | -0.006768208 | 1.695539e-02 | 3.331814e-02 |
| ## 1413 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 4.347569e-03 |
| ## 1414 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.312196e-02 |
| ## 1415 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -2.933584e-02 |
| ## 1418 | 0.02127472 | -0.024796046 | -0.007222057 | 1.284851e-02 | 2.476564e-02 |
| ## 1419 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.813184e-02 |
| ## 1420 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.761779e-02 |
| ## 1421 | 0.02536191 | 0.010174083 | -0.055388147 | -9.859026e-03 | -6.207302e-03 |
| ## 1422 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.275697e-02 |
| ## 1423 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | 5.313342e-03 |
| ## 1425 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | -1.836827e-02 |
| ## 1426 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | -1.620144e-02 |
| ## 1428 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.835174e-02 |
| ## 1429 | 0.02536191 | 0.010174083 | -0.031275667 | -4.396720e-03 | 1.261783e-02 |
| ## 1430 | 0.01287268 | 0.005163953 | 0.008602775 | 4.575456e-04 | -1.299140e-02 |
| ## 1431 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.858164e-02 |
| ## 1432 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -5.773708e-02 |
| ## 1433 | 0.01990332 | 0.007984336 | 0.013301330 | 9.538373e-03 | -2.138309e-02 |
| ## 1434 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | 1.208318e-02 |
| ## 1437 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.678694e-02 |
| ## 1438 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -9.177814e-02 |
| ## 1439 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.802307e-02 |
| ## 1440 | 0.01795257 | 0.007201780 | 0.011997648 | 6.381048e-04 | 1.783704e-02 |
| ## 1441 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 4.816326e-03 |
| ## 1442 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.258449e-02 |
| ## 1444 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 1.876958e-02 |
| ## 1445 | 0.02536191 | 0.010174083 | -0.055388147 | 4.077884e-02 | -1.961577e-02 |
| ## 1447 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -2.130382e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1448 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 1.290506e-02 |
| ## 1449 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | 2.487217e-02 |
| ## 1450 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -1.659415e-02 |
| ## 1451 | 0.01649584 | 0.006617404 | 0.011024119 | 4.245857e-03 | 1.110899e-02 |
| ## 1452 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -8.048078e-03 |
| ## 1453 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.558424e-02 |
| ## 1456 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | -3.215925e-02 |
| ## 1457 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.106944e-02 |
| ## 1458 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.622890e-02 |
| ## 1459 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | -1.545108e-02 |
| ## 1460 | 0.02536191 | 0.010174083 | -0.055388147 | 1.393834e-03 | 6.052468e-03 |
| ## 1461 | 0.01515022 | 0.006077602 | 0.010124849 | -2.822513e-03 | -5.277348e-03 |
| ## 1463 | 0.02029713 | -0.055455613 | 0.011249504 | -4.851318e-02 | 3.859618e-03 |
| ## 1464 | 0.02536191 | -0.029559746 | 0.015502954 | 3.899924e-03 | 3.029632e-02 |
| ## 1466 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.639192e-02 |
| ## 1467 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.335872e-02 |
| ## 1468 | 0.02536191 | -0.069293576 | 0.014056618 | 6.898385e-03 | -3.646363e-04 |
| ## 1469 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 1.282008e-02 |
| ## 1470 | 0.02536191 | -0.029559746 | 0.015502954 | 2.077921e-02 | 2.932880e-02 |
| ## 1471 | 0.01684881 | 0.006758999 | -0.020777520 | 2.698178e-02 | -6.635875e-03 |
| ## 1472 | 0.01768186 | 0.007093182 | -0.055426363 | 8.931465e-03 | 1.505962e-02 |
| ## 1475 | 0.01567799 | -0.042835241 | -0.006216236 | 7.843927e-03 | -2.478010e-02 |
| ## 1476 | 0.02444809 | 0.009807498 | 0.016338587 | -4.554722e-03 | 2.703800e-02 |
| ## 1477 | 0.01693359 | 0.006793009 | 0.011316665 | 8.115171e-03 | -1.587583e-02 |
| ## 1478 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -2.026835e-02 |
| ## 1479 | 0.02536191 | 0.010174083 | -0.031275667 | -4.396720e-03 | -1.369508e-02 |
| ## 1480 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -4.774524e-02 |
| ## 1482 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.573484e-03 |
| ## 1483 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.887156e-02 |
| ## 1485 | 0.02536191 | -0.069293576 | -0.010055862 | 1.268894e-02 | 2.092506e-02 |
| ## 1486 | 0.02391767 | 0.009594716 | 0.015984107 | -3.098606e-02 | -2.900938e-02 |
| ## 1487 | 0.02073618 | -0.056655180 | -0.008221782 | 5.774384e-03 | -2.117208e-02 |
| ## 1488 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -3.445737e-02 |
| ## 1489 | 0.02536191 | -0.069293576 | 0.014056618 | 2.940411e-02 | 2.412277e-02 |
| ## 1490 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 2.280872e-02 |
| ## 1491 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.133463e-02 |
| ## 1494 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -2.689779e-02 |
| ## 1495 | 0.02536191 | -0.029559746 | 0.015502954 | 3.899924e-03 | 3.029632e-02 |
| ## 1496 | 0.02536191 | 0.010174083 | -0.079500626 | 1.281082e-02 | -1.165187e-02 |
| ## 1497 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 2.077819e-02 |
| ## 1498 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.959735e-02 |
| ## 1499 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 9.642905e-03 |
| ## 1501 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 1.707610e-02 |
| ## 1502 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 4.090544e-03 |
| ## 1504 | 0.01720212 | 0.006900733 | -0.037567888 | -1.050326e-02 | 2.288119e-04 |
| ## 1505 | 0.02536191 | -0.069293576 | -0.010055862 | 1.831537e-02 | 3.327173e-02 |
| ## 1506 | 0.01749200 | -0.020387222 | -0.005937950 | 2.802955e-03 | 1.363508e-02 |
| ## 1507 | 0.02405521 | 0.009649890 | 0.016076023 | -5.251041e-02 | 1.716741e-02 |
| ## 1508 | 0.02536191 | 0.010174083 | -0.031275667 | -1.002315e-02 | 2.115443e-02 |
| ## 1509 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | 1.237434e-02 |
| ## 1510 | 0.02243719 | 0.009000812 | 0.014994706 | 5.775098e-03 | -1.513203e-02 |
| ## 1513 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 2.671839e-02 |
| ## 1514 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.171439e-02 |
| ## 1515 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.069786e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1516 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.402522e-02 |
| ## 1517 | 0.02536191 | -0.069293576 | -0.010055862 | -6.045465e-02 | -2.642651e-02 |
| ## 1518 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -5.111869e-02 |
| ## 1520 | 0.01746917 | 0.007007863 | -0.004933972 | -3.141489e-03 | 1.018806e-02 |
| ## 1521 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.500225e-02 |
| ## 1523 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 3.768705e-02 |
| ## 1524 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.732028e-03 |
| ## 1525 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 2.462408e-02 |
| ## 1526 | 0.02536191 | -0.029559746 | 0.015502954 | 1.515278e-02 | 2.189772e-02 |
| ## 1527 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | -1.994170e-03 |
| ## 1528 | 0.01707143 | 0.006848304 | -0.037282462 | 1.608709e-02 | -6.908025e-03 |
| ## 1529 | 0.02536191 | -0.029559746 | -0.008609525 | -5.782668e-02 | 1.786624e-02 |
| ## 1532 | 0.02536191 | 0.010174083 | -0.055388147 | -1.548546e-02 | -3.297949e-02 |
| ## 1533 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 2.062401e-02 |
| ## 1534 | 0.01726949 | 0.006927757 | -0.004877572 | 8.387901e-03 | 1.604145e-02 |
| ## 1535 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 2.813764e-02 |
| ## 1536 | 0.01429070 | 0.005732801 | -0.004036249 | 6.004268e-04 | 1.713926e-03 |
| ## 1537 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.260923e-02 |
| ## 1539 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.598136e-02 |
| ## 1540 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.966319e-02 |
| ## 1542 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.477099e-03 |
| ## 1543 | 0.01937289 | 0.007771550 | -0.005471655 | -4.216395e-02 | 1.331914e-02 |
| ## 1544 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -9.734021e-03 |
| ## 1545 | 0.02455115 | 0.009848840 | -0.030275854 | 1.753010e-02 | 1.654313e-02 |
| ## 1546 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -1.592158e-02 |
| ## 1547 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | 2.320869e-02 |
| ## 1548 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | 4.534538e-03 |
| ## 1551 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -1.271245e-02 |
| ## 1552 | 0.01438681 | -0.016768073 | -0.004883842 | 8.688675e-03 | -1.518269e-02 |
| ## 1553 | 0.02536191 | -0.069293576 | 0.014056618 | -9.980905e-03 | -5.835217e-02 |
| ## 1554 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | 1.402006e-02 |
| ## 1555 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 7.758947e-03 |
| ## 1556 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 5.770687e-03 |
| ## 1558 | 0.02536191 | -0.109027405 | 0.012610281 | 1.552328e-02 | 2.871002e-02 |
| ## 1559 | 0.02536191 | -0.109027405 | 0.012610281 | -6.982443e-03 | -4.670042e-02 |
| ## 1561 | 0.02392226 | 0.009596557 | 0.015987174 | -9.763807e-03 | -3.718478e-04 |
| ## 1562 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 3.022753e-02 |
| ## 1563 | 0.02536191 | -0.069293576 | 0.014056618 | 1.271955e-03 | 3.458125e-02 |
| ## 1564 | 0.02044027 | 0.008199737 | -0.025206423 | 1.006025e-02 | 2.049777e-02 |
| ## 1565 | 0.02536191 | -0.069293576 | -0.010055862 | 1.831537e-02 | -5.270284e-04 |
| ## 1566 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | -1.613507e-02 |
| ## 1567 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -7.283729e-02 |
| ## 1570 | 0.02536191 | 0.010174083 | -0.055388147 | 2.389955e-02 | 6.508061e-03 |
| ## 1571 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 8.664146e-03 |
| ## 1572 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -1.395965e-02 |
| ## 1573 | 0.01809152 | -0.077772994 | 0.008995347 | -4.980817e-03 | 1.215645e-02 |
| ## 1574 | 0.02478870 | 0.009944135 | 0.016566214 | 6.380353e-03 | 1.524926e-02 |
| ## 1575 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -1.124772e-02 |
| ## 1577 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | -7.677221e-02 |
| ## 1578 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.631951e-02 |
| ## 1580 | 0.02536191 | -0.029559746 | -0.008609525 | -1.562382e-03 | -1.143615e-02 |
| ## 1581 | 0.01459126 | 0.005853372 | 0.009751297 | -3.185145e-02 | 9.673942e-03 |
| ## 1582 | 0.02024273 | -0.023593252 | -0.006871733 | 2.120679e-02 | 1.991248e-02 |
| ## 1583 | 0.01689856 | 0.006778959 | 0.011293258 | 4.349513e-03 | 1.144442e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1584 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.500093e-02 |
| ## 1585 | 0.02363146 | -0.064565640 | 0.013097528 | 1.185169e-03 | -2.899733e-02 |
| ## 1586 | 0.01759242 | 0.007057302 | 0.011756958 | 8.430905e-03 | 5.774272e-04 |
| ## 1589 | 0.01852827 | 0.007432727 | 0.012382388 | 8.879400e-03 | -8.709978e-03 |
| ## 1590 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | -4.045199e-02 |
| ## 1591 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -4.562286e-02 |
| ## 1592 | 0.02414464 | 0.009685767 | -0.052729733 | 2.810885e-02 | 2.449520e-02 |
| ## 1593 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 6.339690e-03 |
| ## 1594 | 0.01592475 | -0.018560568 | -0.005405922 | -8.046692e-03 | -2.107185e-02 |
| ## 1596 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.558872e-02 |
| ## 1597 | 0.01972707 | 0.007913631 | 0.013183540 | 7.011774e-04 | 1.650136e-02 |
| ## 1599 | 0.02536191 | 0.010174083 | -0.007163188 | -1.581370e-02 | -2.545221e-02 |
| ## 1600 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.099965e-02 |
| ## 1601 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.182157e-02 |
| ## 1602 | 0.02536191 | 0.010174083 | -0.079500626 | 7.184388e-03 | 1.256324e-02 |
| ## 1603 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -6.550840e-02 |
| ## 1604 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -1.031408e-02 |
| ## 1605 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.855293e-02 |
| ## 1608 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 1.556994e-02 |
| ## 1609 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -1.153688e-02 |
| ## 1610 | 0.02536191 | -0.029559746 | -0.008609525 | 9.690478e-03 | 5.344682e-04 |
| ## 1611 | 0.02463232 | 0.009881400 | 0.016461702 | 2.273382e-02 | 3.042386e-03 |
| ## 1612 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.985596e-02 |
| ## 1613 | 0.02536191 | -0.069293576 | -0.010055862 | 1.436079e-03 | 9.950414e-03 |
| ## 1615 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -1.145946e-02 |
| ## 1616 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.744267e-02 |
| ## 1618 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 9.684508e-03 |
| ## 1619 | 0.01881275 | 0.007546845 | -0.041085348 | 1.355448e-02 | 1.101670e-02 |
| ## 1620 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.227953e-02 |
| ## 1621 | 0.02536191 | -0.029559746 | 0.015502954 | 1.515278e-02 | -2.108967e-02 |
| ## 1622 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.909437e-02 |
| ## 1623 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -9.026020e-02 |
| ## 1624 | 0.02114764 | 0.008483501 | 0.014132903 | 1.482620e-02 | 5.925981e-03 |
| ## 1627 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.842916e-02 |
| ## 1628 | 0.01885511 | 0.007563838 | 0.012600810 | 1.740188e-02 | 1.281451e-02 |
| ## 1629 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.466333e-02 |
| ## 1630 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.803599e-02 |
| ## 1631 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.512365e-02 |
| ## 1632 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.231743e-02 |
| ## 1634 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | 3.078163e-02 |
| ## 1635 | 0.02536191 | -0.109027405 | 0.012610281 | -4.074102e-02 | -2.035002e-03 |
| ## 1637 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -3.359493e-03 |
| ## 1638 | 0.02536191 | -0.029559746 | -0.008609525 | 2.094334e-02 | -6.129212e-03 |
| ## 1639 | 0.01419239 | 0.005693362 | -0.004008481 | 3.744816e-03 | -8.450530e-03 |
| ## 1640 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.319492e-02 |
| ## 1641 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 3.066048e-02 |
| ## 1642 | 0.02313548 | -0.026964803 | 0.014142006 | 3.557563e-03 | 2.962964e-02 |
| ## 1643 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 1.639929e-02 |
| ## 1646 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -8.966628e-03 |
| ## 1647 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 2.542360e-02 |
| ## 1648 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -9.958917e-03 |
| ## 1649 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 8.102874e-03 |
| ## 1650 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 6.583371e-03 |
| ## 1651 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | -3.525085e-03 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1653 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -1.052618e-02 |
| ## 1654 | 0.02290350 | -0.026694422 | -0.007774975 | 8.751148e-03 | 8.490474e-03 |
| ## 1656 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | 7.736106e-03 |
| ## 1657 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.810181e-02 |
| ## 1658 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 5.496442e-03 |
| ## 1659 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -8.040713e-03 |
| ## 1660 | 0.02536191 | -0.109027405 | 0.012610281 | 1.552328e-02 | 1.762583e-02 |
| ## 1661 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.826036e-02 |
| ## 1662 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 1.643739e-02 |
| ## 1665 | 0.02536191 | -0.029559746 | 0.015502954 | 3.765850e-02 | -3.846517e-02 |
| ## 1666 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | -3.103283e-02 |
| ## 1667 | 0.01823993 | -0.021258951 | -0.006191849 | -9.216541e-03 | 7.496882e-03 |
| ## 1668 | 0.02536191 | -0.029559746 | -0.008609525 | 2.094334e-02 | 2.670570e-02 |
| ## 1669 | 0.02536191 | 0.010174083 | -0.079500626 | 2.969011e-02 | 1.407906e-02 |
| ## 1670 | 0.02536191 | 0.010174083 | -0.055388147 | 1.264669e-02 | -4.112475e-02 |
| ## 1672 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -2.756512e-02 |
| ## 1673 | 0.02536191 | -0.029559746 | -0.032722004 | 2.673389e-02 | -1.102392e-02 |
| ## 1675 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | -2.813026e-02 |
| ## 1676 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | -2.267343e-02 |
| ## 1677 | 0.02536191 | 0.010174083 | -0.031275667 | 4.061472e-02 | 1.687034e-02 |
| ## 1678 | 0.01610984 | 0.006462559 | 0.010766159 | 4.146505e-03 | -1.578302e-02 |
| ## 1679 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -7.775958e-03 |
| ## 1680 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -4.523469e-03 |
| ## 1681 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | -2.436715e-03 |
| ## 1684 | 0.02063264 | 0.008276906 | 0.013788731 | -8.421157e-03 | -2.368730e-02 |
| ## 1685 | 0.01740392 | 0.006981688 | -0.038008608 | 2.026140e-02 | 7.823635e-03 |
| ## 1686 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 3.972429e-02 |
| ## 1687 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 4.778398e-03 |
| ## 1688 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -5.833067e-02 |
| ## 1689 | 0.02445673 | 0.009810961 | 0.016344356 | 2.257176e-02 | 8.132633e-03 |
| ## 1691 | 0.02530647 | 0.010151841 | -0.055267058 | 1.823318e-02 | 2.171186e-02 |
| ## 1692 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -7.475572e-03 |
| ## 1694 | 0.02536191 | -0.029559746 | -0.008609525 | -2.406810e-02 | -2.438957e-02 |
| ## 1695 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -7.373388e-03 |
| ## 1696 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 3.223632e-02 |
| ## 1697 | 0.02516254 | 0.010094104 | 0.016816051 | 1.205878e-02 | 2.552944e-02 |
| ## 1698 | 0.02536191 | -0.029559746 | -0.032722004 | 1.548103e-02 | -1.309908e-02 |
| ## 1699 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -3.482975e-02 |
| ## 1700 | 0.02536191 | -0.069293576 | 0.014056618 | -6.061878e-02 | 3.566569e-02 |
| ## 1703 | 0.02536191 | 0.010174083 | -0.031275667 | -1.564958e-02 | 1.009288e-02 |
| ## 1704 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.403129e-02 |
| ## 1705 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 7.647281e-03 |
| ## 1706 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.672399e-02 |
| ## 1707 | 0.02399702 | -0.027968934 | 0.014668634 | 3.030821e-02 | 3.248021e-02 |
| ## 1708 | 0.02040850 | 0.008186991 | -0.025167242 | 5.517073e-03 | -2.646525e-02 |
| ## 1710 | 0.02536191 | -0.069293576 | -0.034168341 | 4.661164e-02 | -3.147182e-02 |
| ## 1711 | 0.02536191 | -0.029559746 | 0.015502954 | 3.899924e-03 | 1.738083e-02 |
| ## 1713 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 6.311057e-03 |
| ## 1714 | 0.02536191 | -0.029559746 | 0.015502954 | 3.899924e-03 | 1.448930e-02 |
| ## 1715 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -3.075896e-02 |
| ## 1716 | 0.02102140 | 0.008432858 | 0.014048535 | -3.916322e-03 | 3.469902e-02 |
| ## 1717 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.027527e-05 |
| ## 1718 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | -4.358738e-02 |
| ## 1719 | 0.02386183 | 0.009572316 | 0.015946790 | 8.481431e-04 | -1.465082e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1722 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 1.484572e-02 |
| ## 1723 | 0.02364512 | 0.009485380 | 0.015801961 | -5.161522e-02 | 1.597614e-02 |
| ## 1724 | 0.01503170 | 0.006030054 | -0.004245534 | -9.372589e-03 | 1.553421e-02 |
| ## 1725 | 0.02515616 | 0.010091545 | 0.016811789 | -4.686637e-03 | 9.561024e-03 |
| ## 1726 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 9.009818e-03 |
| ## 1727 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -2.542201e-02 |
| ## 1729 | 0.02536191 | 0.010174083 | -0.055388147 | 1.827312e-02 | -6.190214e-02 |
| ## 1730 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 1.830801e-02 |
| ## 1732 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | -6.813867e-03 |
| ## 1733 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.284465e-02 |
| ## 1734 | 0.01356146 | 0.005440259 | -0.016723643 | -2.351003e-03 | 1.257081e-02 |
| ## 1735 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.745740e-02 |
| ## 1736 | 0.02388412 | 0.009581257 | 0.015961686 | 8.489354e-04 | 1.044801e-02 |
| ## 1737 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -3.057567e-02 |
| ## 1738 | 0.02536191 | -0.029559746 | -0.008609525 | 3.219620e-02 | -4.051944e-02 |
| ## 1741 | 0.02536191 | 0.010174083 | -0.007163188 | 4.607703e-02 | 3.122967e-02 |
| ## 1742 | 0.02536191 | -0.069293576 | -0.010055862 | 3.519466e-02 | -1.142214e-02 |
| ## 1743 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 7.904306e-03 |
| ## 1744 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | 1.573233e-02 |
| ## 1745 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -3.753799e-02 |
| ## 1746 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | 4.856363e-03 |
| ## 1748 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.456040e-03 |
| ## 1749 | 0.01034465 | 0.004149819 | 0.006913301 | -4.222143e-03 | 9.038530e-03 |
| ## 1751 | 0.02536191 | -0.069293576 | 0.014056618 | 1.252482e-02 | 3.211065e-03 |
| ## 1752 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.071841e-02 |
| ## 1753 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | -3.515491e-02 |
| ## 1754 | 0.02285676 | 0.009169126 | 0.015275104 | 2.616578e-02 | -9.324696e-04 |
| ## 1755 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.651095e-02 |
| ## 1756 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | 1.126477e-02 |
| ## 1757 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | -3.213854e-02 |
| ## 1760 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.595529e-02 |
| ## 1761 | 0.02536191 | 0.010174083 | 0.016949291 | -4.410998e-02 | -1.993266e-03 |
| ## 1762 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.025210e-03 |
| ## 1763 | 0.01480680 | -0.017257578 | 0.009050938 | 1.541615e-02 | 2.136737e-02 |
| ## 1764 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.430728e-02 |
| ## 1765 | 0.02252703 | 0.009036853 | -0.049197017 | 6.235559e-03 | 1.591448e-02 |
| ## 1767 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.151478e-02 |
| ## 1768 | 0.02536191 | -0.109027405 | 0.012610281 | 9.896847e-03 | -6.887249e-02 |
| ## 1770 | 0.01957045 | 0.007850801 | 0.013078870 | 5.037228e-03 | 1.122103e-02 |
| ## 1771 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 7.724701e-03 |
| ## 1772 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 2.757636e-02 |
| ## 1773 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 2.329384e-02 |
| ## 1774 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.515341e-02 |
| ## 1775 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -4.280120e-02 |
| ## 1776 | 0.01866348 | 0.007486967 | 0.012472748 | 4.803785e-03 | 7.461965e-03 |
| ## 1779 | 0.01633475 | 0.006552783 | -0.020143599 | 1.166339e-02 | -1.822696e-03 |
| ## 1780 | 0.01986132 | -0.023148715 | -0.025625130 | 1.652959e-02 | -1.855349e-02 |
| ## 1781 | 0.02536191 | -0.069293576 | -0.010055862 | -1.544321e-02 | -3.126625e-02 |
| ## 1782 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.955732e-02 |
| ## 1783 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.713612e-02 |
| ## 1784 | 0.02536191 | -0.069293576 | 0.014056618 | 6.898385e-03 | 3.597224e-02 |
| ## 1786 | 0.02536191 | -0.029559746 | -0.032722004 | 2.673389e-02 | -5.931245e-02 |
| ## 1787 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.204515e-02 |
| ## 1789 | 0.01599380 | 0.006416008 | 0.010688608 | 4.116637e-03 | -1.858687e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1790 | 0.02471663 | 0.009915224 | -0.006980935 | 1.200503e-02 | 2.339737e-02 |
| ## 1791 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -7.419615e-02 |
| ## 1792 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | -2.786550e-02 |
| ## 1793 | 0.02536191 | -0.029559746 | 0.015502954 | -4.673795e-02 | -9.531474e-03 |
| ## 1794 | 0.02343238 | 0.009400040 | 0.015659790 | 1.122962e-02 | 1.846065e-02 |
| ## 1795 | 0.02350177 | 0.009427875 | 0.015706162 | 1.647664e-02 | 6.913143e-03 |
| ## 1798 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -9.711374e-03 |
| ## 1799 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | -1.668492e-02 |
| ## 1800 | 0.02536191 | -0.109027405 | 0.012610281 | 3.240257e-02 | 4.232866e-02 |
| ## 1801 | 0.01917386 | 0.007691707 | -0.041873984 | 1.806830e-02 | 1.546165e-02 |
| ## 1802 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -5.489508e-02 |
| ## 1803 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 5.647974e-03 |
| ## 1805 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 4.400312e-02 |
| ## 1806 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 1.819478e-02 |
| ## 1808 | 0.02153931 | 0.008640623 | -0.026561729 | -4.673965e-02 | 4.695292e-03 |
| ## 1809 | 0.01798261 | 0.007213833 | 0.012017726 | 4.628537e-03 | 5.640696e-03 |
| ## 1810 | 0.02536191 | -0.109027405 | 0.084947718 | 3.778045e-03 | 3.321901e-02 |
| ## 1811 | 0.02536191 | 0.010174083 | -0.031275667 | -1.564958e-02 | -4.744855e-02 |
| ## 1812 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.724295e-03 |
| ## 1813 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | 7.392373e-03 |
| ## 1814 | 0.02536191 | 0.010174083 | -0.007163188 | 2.919774e-02 | 3.605257e-02 |
| ## 1817 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | -3.419106e-02 |
| ## 1818 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.002317e-02 |
| ## 1819 | 0.02044439 | 0.008201388 | 0.013662923 | -1.287982e-02 | 9.904535e-03 |
| ## 1820 | 0.02536191 | 0.010174083 | -0.055388147 | -9.859026e-03 | 6.836706e-03 |
| ## 1821 | 0.02453022 | 0.009840445 | 0.016393474 | -5.354733e-02 | 2.779208e-02 |
| ## 1822 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -3.907434e-02 |
| ## 1824 | 0.02536191 | -0.029559746 | 0.039615433 | 3.735800e-03 | 2.520867e-02 |
| ## 1825 | 0.02536191 | 0.010174083 | -0.007163188 | 1.065586e-03 | -2.654825e-02 |
| ## 1828 | 0.02536191 | 0.010174083 | -0.055388147 | 1.827312e-02 | -4.818345e-02 |
| ## 1829 | 0.02536191 | 0.010174083 | -0.031275667 | -1.002315e-02 | -6.764892e-03 |
| ## 1830 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -3.442139e-02 |
| ## 1831 | 0.01771638 | -0.020648750 | -0.006014122 | 6.769214e-03 | 1.399616e-02 |
| ## 1832 | 0.01342224 | 0.005384411 | 0.008970041 | 1.238774e-02 | -2.184892e-03 |
| ## 1833 | 0.02536191 | -0.069293576 | -0.010055862 | 1.268894e-02 | 2.375233e-02 |
| ## 1834 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 7.711716e-03 |
| ## 1837 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 2.954916e-02 |
| ## 1838 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | -4.430736e-02 |
| ## 1839 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 3.699552e-02 |
| ## 1840 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.147394e-02 |
| ## 1841 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 1.617089e-02 |
| ## 1842 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 2.004891e-02 |
| ## 1844 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | 2.683373e-02 |
| ## 1845 | 0.02536191 | -0.069293576 | -0.010055862 | 7.062509e-03 | -6.361178e-03 |
| ## 1847 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.400628e-02 |
| ## 1848 | 0.02536191 | -0.069293576 | -0.010055862 | 1.831537e-02 | 2.045262e-02 |
| ## 1849 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 7.499797e-03 |
| ## 1850 | 0.02536191 | -0.029559746 | -0.008609525 | 4.064048e-03 | 1.350474e-02 |
| ## 1851 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | 1.648076e-02 |
| ## 1852 | 0.01802826 | 0.007232142 | 0.012048229 | -3.358695e-03 | 8.656139e-03 |
| ## 1853 | 0.01456577 | 0.005843143 | 0.009734257 | 1.344313e-02 | -2.560172e-02 |
| ## 1856 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 7.331799e-03 |
| ## 1857 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | -3.895338e-02 |
| ## 1858 | 0.01294699 | 0.005193762 | -0.015965899 | -2.809458e-02 | -1.407081e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1859 | 0.01686715 | -0.046084263 | -0.006687733 | -1.027063e-02 | -3.657500e-03 |
| ## 1860 | 0.02495217 | -0.068174075 | -0.009893400 | 6.948408e-03 | -2.105144e-02 |
| ## 1861 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.920768e-03 |
| ## 1863 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -1.842159e-02 |
| ## 1864 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.418086e-02 |
| ## 1866 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 3.127092e-02 |
| ## 1867 | 0.02389785 | 0.009586765 | 0.015970861 | -4.452211e-03 | 3.102098e-05 |
| ## 1868 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -4.102121e-03 |
| ## 1869 | 0.02536191 | -0.029559746 | -0.032722004 | 2.110746e-02 | -2.648701e-02 |
| ## 1870 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 3.191716e-02 |
| ## 1871 | 0.02536191 | -0.069293576 | -0.010055862 | 2.394180e-02 | -6.107836e-03 |
| ## 1872 | 0.02536191 | 0.010174083 | -0.055388147 | 7.020264e-03 | 8.246660e-03 |
| ## 1875 | 0.02229913 | 0.008945428 | 0.014902440 | 2.058046e-02 | -1.131340e-02 |
| ## 1876 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.463566e-02 |
| ## 1877 | 0.01678229 | 0.006732315 | 0.011215553 | -3.663427e-02 | 9.851009e-03 |
| ## 1878 | 0.02511120 | 0.010073507 | 0.016781739 | -5.481555e-02 | 1.505809e-02 |
| ## 1879 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.499399e-03 |
| ## 1880 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 1.660154e-02 |
| ## 1882 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -4.142549e-02 |
| ## 1883 | 0.02340945 | 0.009390841 | 0.015644466 | -9.554506e-03 | -7.451362e-03 |
| ## 1885 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.622180e-02 |
| ## 1886 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.654440e-02 |
| ## 1887 | 0.02536191 | -0.029559746 | -0.032722004 | 9.854602e-03 | -3.588738e-02 |
| ## 1888 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -1.975867e-03 |
| ## 1889 | 0.02104909 | -0.057510123 | -0.028357975 | 1.533703e-02 | 7.171499e-03 |
| ## 1890 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -3.302689e-02 |
| ## 1891 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | 3.011353e-03 |
| ## 1894 | 0.02536191 | 0.010174083 | -0.007163188 | -4.560844e-03 | -3.264860e-03 |
| ## 1895 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -6.012404e-02 |
| ## 1896 | 0.02536191 | 0.010174083 | 0.016949291 | 3.466004e-02 | -2.985002e-03 |
| ## 1897 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -7.819320e-03 |
| ## 1898 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -1.503147e-02 |
| ## 1899 | 0.02536191 | 0.010174083 | -0.007163188 | -1.018727e-02 | -3.154707e-02 |
| ## 1901 | 0.02536191 | -0.029559746 | -0.056834483 | 1.564516e-02 | -2.805936e-02 |
| ## 1902 | 0.02536191 | 0.010174083 | 0.016949291 | -1.035140e-02 | -3.157242e-03 |
| ## 1904 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.042163e-02 |
| ## 1905 | 0.02087437 | 0.008373878 | 0.013950279 | 1.463462e-02 | 2.927821e-02 |
| ## 1906 | 0.01769041 | 0.007096615 | -0.021815367 | 2.832953e-02 | 2.035039e-02 |
| ## 1907 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 5.732752e-03 |
| ## 1908 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 6.445377e-03 |
| ## 1909 | 0.02512864 | 0.010080505 | 0.016793396 | 1.761721e-02 | 3.464039e-02 |
| ## 1910 | 0.01399927 | 0.005615890 | -0.043882750 | 7.071315e-03 | 9.404924e-03 |
| ## 1913 | 0.02536191 | 0.010174083 | -0.031275667 | 1.229710e-03 | 7.454691e-03 |
| ## 1914 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 1.161219e-02 |
| ## 1915 | 0.02536191 | 0.010174083 | -0.055388147 | 2.952598e-02 | 1.532064e-02 |
| ## 1916 | 0.01736880 | 0.006967596 | -0.037931894 | 8.660934e-03 | -6.294979e-02 |
| ## 1917 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 4.118990e-03 |
| ## 1918 | 0.02230548 | 0.008947977 | 0.014906687 | 5.741198e-03 | -1.368691e-02 |
| ## 1920 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -9.994728e-03 |
| ## 1921 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -3.954645e-03 |
| ## 1923 | 0.02536191 | 0.010174083 | -0.055388147 | 4.077884e-02 | 6.247354e-03 |
| ## 1924 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.355973e-03 |
| ## 1925 | 0.02536191 | 0.010174083 | -0.007163188 | 6.692016e-03 | -1.924569e-02 |
| ## 1926 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 9.523867e-03 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1927 | 0.02205737 | 0.008848447 | 0.014740877 | -1.389599e-02 | -1.345588e-02 |
| ## 1928 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -3.845074e-02 |
| ## 1929 | 0.02536191 | -0.029559746 | 0.015502954 | -1.726506e-03 | -1.829085e-02 |
| ## 1932 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | 2.564868e-02 |
| ## 1933 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -2.071815e-02 |
| ## 1934 | 0.02536191 | -0.029559746 | -0.008609525 | -1.562382e-03 | 1.323823e-02 |
| ## 1935 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 6.394285e-03 |
| ## 1936 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.648015e-02 |
| ## 1937 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -4.256962e-03 |
| ## 1939 | 0.02475966 | 0.009932483 | 0.016546803 | 8.800553e-04 | 2.259295e-02 |
| ## 1940 | 0.02073562 | -0.024167719 | -0.007039051 | -5.877493e-03 | -3.657756e-03 |
| ## 1942 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -9.819358e-03 |
| ## 1943 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 1.308466e-02 |
| ## 1944 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -3.835436e-02 |
| ## 1945 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -3.408132e-02 |
| ## 1946 | 0.02536191 | 0.010174083 | -0.007163188 | 1.794488e-02 | -5.058234e-03 |
| ## 1947 | 0.02079300 | 0.008341236 | 0.013895900 | 9.964738e-03 | -1.794009e-02 |
| ## 1948 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.879205e-02 |
| ## 1951 | 0.01417416 | 0.005686048 | -0.017479210 | 1.955410e-02 | -9.178891e-03 |
| ## 1952 | 0.02536191 | -0.029559746 | -0.032722004 | 2.110746e-02 | -2.745086e-02 |
| ## 1953 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -7.701026e-02 |
| ## 1954 | 0.01407833 | -0.016408536 | -0.004779124 | 1.787202e-02 | -3.409617e-03 |
| ## 1955 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -1.922866e-02 |
| ## 1956 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 3.211205e-02 |
| ## 1958 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | -2.829090e-02 |
| ## 1959 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.933007e-02 |
| ## 1961 | 0.02536191 | 0.010174083 | 0.016949291 | -2.723069e-02 | 6.292101e-03 |
| ## 1962 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.578649e-02 |
| ## 1963 | 0.02536191 | -0.029559746 | -0.008609525 | 2.094334e-02 | -8.313923e-03 |
| ## 1964 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | 1.713612e-02 |
| ## 1965 | 0.02536191 | -0.029559746 | 0.015502954 | 9.526354e-03 | 1.755095e-02 |
| ## 1966 | 0.02536191 | 0.010174083 | -0.055388147 | -9.859026e-03 | -3.075317e-02 |
| ## 1967 | 0.01901992 | -0.022168047 | 0.011626291 | 2.824163e-02 | 1.498069e-02 |
| ## 1970 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -4.446818e-02 |
| ## 1971 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -2.273485e-02 |
| ## 1972 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.145990e-03 |
| ## 1973 | 0.01779027 | 0.007136672 | -0.005024662 | -1.898601e-02 | -1.308918e-02 |
| ## 1974 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.091696e-02 |
| ## 1975 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -5.075446e-03 |
| ## 1977 | 0.02536191 | -0.029559746 | 0.015502954 | -1.860580e-02 | -2.291361e-02 |
| ## 1978 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.167987e-02 |
| ## 1980 | 0.01726999 | 0.006927960 | 0.011541483 | 8.276388e-03 | 7.392584e-03 |
| ## 1981 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -1.888965e-03 |
| ## 1982 | 0.01822968 | 0.007312943 | -0.005148768 | 7.659236e-04 | -1.854951e-03 |
| ## 1983 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | -1.697251e-02 |
| ## 1984 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -2.597900e-03 |
| ## 1985 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -1.772287e-02 |
| ## 1986 | 0.02536191 | 0.010174083 | -0.079500626 | 1.843725e-02 | 1.409222e-02 |
| ## 1989 | 0.02217633 | 0.008896167 | 0.014820375 | -4.840899e-02 | -4.962936e-02 |
| ## 1990 | 0.02536191 | -0.029559746 | -0.008609525 | 1.531691e-02 | 4.913372e-03 |
| ## 1991 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -6.215760e-02 |
| ## 1992 | 0.02536191 | -0.069293576 | 0.062281576 | -6.094702e-02 | 2.487995e-02 |
| ## 1993 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.066732e-02 |
| ## 1994 | 0.02536191 | 0.010174083 | -0.031275667 | 1.248257e-02 | -2.847769e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 1996 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.952896e-03 |
| ## 1997 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 5.095997e-03 |
| ## 1999 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.255104e-02 |
| ## 2000 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -1.218312e-02 |
| ## 2001 | 0.02536191 | 0.010174083 | -0.031275667 | 2.373543e-02 | -1.367980e-02 |
| ## 2002 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.999605e-02 |
| ## 2003 | 0.02536191 | 0.010174083 | -0.055388147 | 1.393834e-03 | -8.872016e-04 |
| ## 2004 | 0.02536191 | 0.010174083 | -0.055388147 | 2.952598e-02 | 2.540886e-02 |
| ## 2005 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -2.270797e-02 |
| ## 2008 | 0.02272915 | 0.009117935 | 0.015189825 | 2.097734e-02 | -7.385384e-03 |
| ## 2009 | 0.01919350 | 0.007699587 | 0.012826958 | -1.634976e-02 | -2.168474e-02 |
| ## 2010 | 0.02536191 | -0.029559746 | -0.008609525 | -1.281524e-02 | -5.726978e-02 |
| ## 2011 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -2.035526e-02 |
| ## 2012 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.247730e-02 |
| ## 2013 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.541860e-02 |
| ## 2015 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -2.202380e-02 |
| ## 2016 | 0.02536191 | 0.010174083 | -0.031275667 | 6.856140e-03 | -1.499566e-03 |
| ## 2018 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -3.898744e-02 |
| ## 2019 | 0.02536191 | -0.029559746 | -0.008609525 | -1.562382e-03 | -1.513088e-02 |
| ## 2020 | 0.02536191 | -0.109027405 | -0.011502198 | 2.694026e-02 | 1.344743e-02 |
| ## 2021 | 0.02536191 | 0.010174083 | -0.079500626 | 2.969011e-02 | -7.350383e-03 |
| ## 2022 | 0.02536191 | 0.010174083 | 0.016949291 | -3.848355e-02 | -3.613595e-02 |
| ## 2023 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -5.891813e-03 |
| ## 2024 | 0.01861651 | 0.007468122 | -0.022957402 | 5.032640e-03 | 1.021916e-02 |
| ## 2027 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | -3.729748e-03 |
| ## 2028 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.075186e-02 |
| ## 2029 | 0.01579922 | 0.006337952 | 0.010558572 | -2.943422e-03 | -2.747903e-02 |
| ## 2030 | 0.02536191 | 0.010174083 | 0.016949291 | -5.536284e-02 | -3.385118e-02 |
| ## 2031 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | -1.356463e-02 |
| ## 2032 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | -1.831573e-02 |
| ## 2034 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 1.520318e-02 |
| ## 2035 | 0.02536191 | -0.069293576 | -0.010055862 | -2.106964e-02 | 4.482838e-03 |
| ## 2037 | 0.02536191 | 0.010174083 | -0.055388147 | 3.515241e-02 | 2.679985e-02 |
| ## 2038 | 0.01230840 | 0.004937588 | 0.008225666 | 3.168053e-03 | -4.543304e-03 |
| ## 2039 | 0.02536191 | 0.010174083 | -0.079500626 | 3.531654e-02 | 3.114856e-02 |
| ## 2040 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.919285e-02 |
| ## 2041 | 0.02389930 | -0.065297440 | 0.013245978 | -2.531118e-02 | 2.188539e-02 |
| ## 2042 | 0.02367718 | 0.009498242 | 0.015823389 | 2.185230e-02 | 2.146065e-02 |
| ## 2043 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 1.163291e-02 |
| ## 2046 | 0.02161621 | 0.008671472 | 0.014446049 | 1.995017e-02 | -1.792223e-02 |
| ## 2047 | 0.02048472 | 0.008217569 | -0.044736799 | 2.384803e-02 | 2.337712e-02 |
| ## 2048 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.148265e-02 |
| ## 2049 | 0.02536191 | 0.010174083 | -0.031275667 | 1.810900e-02 | 2.586041e-02 |
| ## 2050 | 0.02536191 | -0.029559746 | -0.008609525 | 2.656977e-02 | -4.823967e-02 |
| ## 2051 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 1.114188e-02 |
| ## 2053 | 0.02165096 | 0.008685412 | 0.014469272 | -4.726215e-02 | 2.222607e-02 |
| ## 2054 | 0.02536191 | 0.010174083 | -0.079500626 | -5.470634e-02 | -2.310687e-02 |
| ## 2056 | 0.02136788 | -0.024904628 | -0.007253683 | -1.079708e-02 | -1.495657e-02 |
| ## 2057 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -2.916784e-02 |
| ## 2058 | 0.02067457 | 0.008293729 | 0.013816756 | 1.908111e-02 | -2.992235e-02 |
| ## 2059 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | 1.758259e-02 |
| ## 2060 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.343746e-02 |
| ## 2061 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 1.571143e-02 |
| ## 2062 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 1.840651e-02 |

| | | | | | |
|---------|------------|--------------|--------------|---------------|---------------|
| ## 2065 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -6.084403e-02 |
| ## 2066 | 0.02536191 | -0.029559746 | 0.015502954 | 2.640564e-02 | 1.790067e-02 |
| ## 2067 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.305560e-02 |
| ## 2068 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.541412e-02 |
| ## 2069 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 4.462917e-03 |
| ## 2070 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 2.709823e-04 |
| ## 2072 | 0.02536191 | -0.109027405 | 0.012610281 | 9.896847e-03 | -3.587694e-02 |
| ## 2073 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | -1.882627e-02 |
| ## 2075 | 0.02203714 | 0.008840330 | 0.014727354 | 7.832864e-04 | 9.249231e-03 |
| ## 2076 | 0.02347886 | -0.064148724 | 0.013012954 | 1.680357e-02 | 3.224823e-02 |
| ## 2077 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 2.195745e-02 |
| ## 2078 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -1.038975e-02 |
| ## 2079 | 0.02536191 | 0.010174083 | 0.016949291 | -4.724968e-03 | 2.284387e-02 |
| ## 2080 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 3.269403e-02 |
| ## 2081 | 0.02536191 | -0.069293576 | -0.010055862 | 7.062509e-03 | 1.545380e-02 |
| ## 2084 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 3.053777e-02 |
| ## 2085 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 2.165145e-02 |
| ## 2086 | 0.02026101 | 0.008127825 | 0.013540372 | -4.422801e-02 | -3.840493e-03 |
| ## 2087 | 0.02536191 | 0.010174083 | -0.031275667 | 2.936186e-02 | 2.578299e-02 |
| ## 2088 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.318544e-02 |
| ## 2089 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.467017e-02 |
| ## 2091 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 1.645212e-02 |
| ## 2092 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | -2.877282e-02 |
| ## 2094 | 0.01963334 | -0.053642033 | 0.010881608 | 9.695799e-03 | -1.661533e-02 |
| ## 2095 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.306305e-03 |
| ## 2096 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.026256e-02 |
| ## 2097 | 0.02323748 | 0.009321855 | 0.015529541 | -5.072539e-02 | -2.962279e-03 |
| ## 2098 | 0.02191954 | -0.025547600 | 0.013398737 | -5.011971e-02 | 1.434847e-02 |
| ## 2099 | 0.02384985 | 0.009567509 | 0.015938782 | -2.031622e-02 | -1.238297e-02 |
| ## 2100 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 5.041223e-03 |
| ## 2103 | 0.01711501 | 0.006865787 | -0.004833942 | 1.590665e-02 | -4.767973e-02 |
| ## 2104 | 0.01569728 | 0.006297056 | -0.019357481 | 4.243478e-03 | 8.278663e-03 |
| ## 2105 | 0.02065837 | 0.008287228 | 0.013805927 | -4.509541e-02 | -2.605540e-02 |
| ## 2106 | 0.02536191 | 0.010174083 | -0.031275667 | -5.503459e-02 | 1.066907e-02 |
| ## 2107 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 3.615070e-02 |
| ## 2108 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 2.633267e-02 |
| ## 2110 | 0.02149740 | 0.008623810 | 0.014366648 | 2.460963e-02 | -4.096339e-02 |
| ## 2111 | 0.02536191 | 0.010174083 | -0.007163188 | 2.357131e-02 | 7.995256e-03 |
| ## 2113 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | -3.616016e-02 |
| ## 2114 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 6.660792e-03 |
| ## 2115 | 0.02536191 | 0.010174083 | -0.007163188 | 1.231845e-02 | -3.992670e-02 |
| ## 2116 | 0.02536191 | 0.010174083 | -0.007163188 | -1.581370e-02 | 2.467106e-03 |
| ## 2117 | 0.02536191 | -0.109027405 | -0.035614677 | 1.585153e-02 | -3.812915e-03 |
| ## 2118 | 0.02536191 | -0.069293576 | -0.010055862 | 4.082109e-02 | -4.472985e-03 |
| ## 2119 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 3.157903e-02 |
| ## 2122 | 0.02536191 | 0.010174083 | 0.016949291 | -1.597783e-02 | 1.941933e-02 |
| ## 2123 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | -2.646875e-03 |
| ## 2124 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.711191e-02 |
| ## 2125 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -9.374812e-03 |
| ## 2126 | 0.02536191 | -0.069293576 | 0.014056618 | 6.898385e-03 | 2.067927e-02 |
| ## 2127 | 0.02536191 | 0.010174083 | 0.016949291 | -2.160426e-02 | -1.053354e-02 |
| ## 2129 | 0.01494007 | -0.040819124 | 0.008280404 | 4.063667e-03 | -1.772122e-02 |
| ## 2130 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | 2.121114e-02 |
| ## 2132 | 0.02536191 | 0.010174083 | -0.007163188 | -5.519871e-02 | 1.791860e-02 |

| | | | | | |
|---------|---------------|---------------|---------------|---------------|---------------|
| ## 2133 | 0.01437014 | 0.005764668 | 0.009603522 | 5.107712e-04 | 4.119900e-03 |
| ## 2134 | 0.02536191 | 0.010174083 | 0.016949291 | 2.903361e-02 | 3.880929e-03 |
| ## 2135 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 2.077083e-02 |
| ## 2136 | 0.02536191 | -0.069293576 | 0.014056618 | 1.252482e-02 | -9.768687e-03 |
| ## 2137 | 0.02536191 | -0.029559746 | 0.015502954 | -1.726506e-03 | 4.712873e-03 |
| ## 2138 | 0.02536191 | 0.010174083 | -0.055388147 | -5.487047e-02 | 7.114260e-03 |
| ## 2141 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 3.041294e-02 |
| ## 2142 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -4.009419e-03 |
| ## 2143 | 0.02536191 | 0.010174083 | 0.016949291 | 2.340718e-02 | 4.899546e-03 |
| ## 2144 | 0.01919896 | 0.007701777 | 0.012830606 | 2.197843e-02 | 7.558844e-03 |
| ## 2145 | 0.02394885 | -0.027912792 | 0.014639190 | 2.493442e-02 | -1.149309e-02 |
| ## 2146 | 0.02536191 | -0.029559746 | -0.008609525 | 2.094334e-02 | -3.517301e-02 |
| ## 2148 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | -2.941906e-02 |
| ## 2149 | 0.02536191 | 0.010174083 | 0.016949291 | 1.778075e-02 | -5.962316e-02 |
| ## 2151 | 0.02536191 | 0.010174083 | 0.016949291 | 9.014619e-04 | 6.178870e-03 |
| ## 2152 | 0.02536191 | 0.010174083 | 0.016949291 | 1.215432e-02 | 4.507283e-02 |
| ## 2153 | 0.02536191 | 0.010174083 | 0.016949291 | 6.527892e-03 | 1.251759e-02 |
| ## | OLDCLAIM | CLM_FREQ | CAR_AGE | MSTATUS_Yes | |
| ## 1 | -2.473468e+05 | -4.828749e+01 | -2.900436e+02 | -19.428083286 | |
| ## 3 | 8.909533e+03 | 9.532933e-01 | 8.538466e+00 | 0.829429120 | |
| ## 4 | -7.647277e+02 | -5.733458e-01 | -2.362434e+01 | 1.149756084 | |
| ## 5 | -9.036985e+03 | 9.334938e-01 | -1.016300e+01 | -2.615250666 | |
| ## 6 | -1.398547e+04 | -8.648486e-01 | 3.451413e+01 | -0.745054629 | |
| ## 7 | -4.058503e+05 | -2.004719e+01 | -7.428287e+00 | 0.241993044 | |
| ## 8 | -1.399460e-02 | 4.498947e+01 | 1.010183e+01 | -0.359523643 | |
| ## 9 | -1.495426e-02 | 1.934641e-02 | 2.144990e+02 | -1.073552540 | |
| ## 12 | 5.350406e-02 | 7.596513e-03 | -1.299768e-02 | -19.438068347 | |
| ## 13 | -1.641822e-02 | 2.007280e-02 | -1.303839e-02 | -0.028413019 | |
| ## 14 | 2.522947e-03 | -2.903713e-02 | 1.562470e-02 | 0.014009680 | |
| ## 15 | 4.538336e-02 | -1.930759e-02 | -1.535713e-02 | -0.022152022 | |
| ## 16 | 4.436633e-03 | -3.461290e-02 | -2.679222e-02 | -0.025603193 | |
| ## 17 | -1.715977e-02 | 1.960956e-02 | -2.463544e-02 | -0.029684712 | |
| ## 19 | -1.045323e-02 | -2.245307e-03 | 2.490065e-02 | 0.020851471 | |
| ## 20 | -1.426771e-02 | 2.010814e-02 | 2.782116e-02 | 0.028234397 | |
| ## 22 | -1.224455e-02 | 1.582789e-02 | -7.799050e-03 | 0.023437745 | |
| ## 23 | -2.162971e-03 | -4.093435e-02 | -3.597098e-02 | -0.013790638 | |
| ## 24 | -1.051747e-02 | 2.440557e-03 | 1.432103e-03 | -0.022311470 | |
| ## 25 | -1.377260e-02 | 2.173071e-02 | 3.431622e-03 | 0.034430723 | |
| ## 26 | -1.093827e-02 | -2.398622e-02 | -9.941779e-03 | 0.029508845 | |
| ## 27 | 7.190779e-03 | -3.704626e-02 | 1.143043e-02 | 0.030029882 | |
| ## 28 | -1.339497e-02 | 2.093162e-02 | -4.309936e-02 | -0.016286929 | |
| ## 31 | -1.597293e-02 | 2.066621e-02 | -5.582520e-03 | -0.027015271 | |
| ## 32 | -1.249990e-02 | 1.871506e-02 | 2.013157e-02 | -0.017729944 | |
| ## 33 | -6.569471e-03 | -4.443720e-02 | -5.888755e-02 | -0.023448394 | |
| ## 34 | -1.215103e-02 | -2.364661e-02 | 3.632316e-02 | 0.020257986 | |
| ## 35 | -1.550871e-02 | 1.796093e-02 | -3.894267e-02 | 0.021344006 | |
| ## 36 | -1.478038e-02 | 1.846993e-02 | -4.583579e-02 | -0.021708810 | |
| ## 38 | 2.751516e-02 | -2.311405e-02 | 3.016673e-02 | -0.022630006 | |
| ## 39 | -1.524741e-02 | 1.746324e-02 | 8.849057e-03 | 0.022502838 | |
| ## 41 | 7.039711e-02 | 1.409366e-02 | -2.650178e-03 | -0.029949131 | |
| ## 42 | -1.817764e-02 | 2.390835e-02 | -1.675933e-02 | 0.022646898 | |
| ## 43 | 4.305876e-02 | 2.283894e-02 | -3.003137e-02 | -0.011916661 | |
| ## 44 | -1.482116e-02 | 1.823665e-02 | 1.306440e-03 | 0.025441227 | |
| ## 45 | -1.557707e-02 | 1.868792e-02 | 3.691930e-03 | 0.019411004 | |

```

## 46 -1.074028e-02 1.359556e-02 -2.265187e-02 -0.016471214
## 47 -1.554643e-02 2.040855e-02 -3.333142e-02 -0.022818213
## 50 -1.358266e-02 1.973322e-02 4.220981e-04 -0.020733830
## 51 -1.812689e-02 2.073180e-02 -3.066041e-03 0.019725655
## 52 -4.623286e-03 2.125782e-03 3.466798e-02 -0.022321655
## 53 2.696244e-03 7.254848e-03 -1.568234e-02 0.037676458
## 54 -1.522437e-02 1.787768e-02 -1.132276e-02 0.025021629
## 55 2.603872e-03 -1.358963e-02 -5.140570e-02 -0.016263517
## 57 9.336971e-03 -1.350942e-02 2.296335e-03 -0.027094758
## 58 8.900181e-03 -1.074390e-02 -1.939488e-02 0.023363282
## 60 6.926748e-03 5.226292e-03 1.948130e-02 -0.018612229
## 61 6.239912e-03 8.238026e-03 -2.250658e-02 -0.027926834
## 62 -7.893193e-04 5.060913e-03 2.039470e-02 -0.025649435
## 63 -1.708289e-03 2.559257e-03 -4.363836e-02 0.032512503
## 64 4.872683e-03 -1.565868e-02 3.300995e-02 -0.024328236
## 65 -2.317411e-03 3.530340e-03 3.213791e-02 -0.023949308
## 66 8.711315e-02 4.822190e-02 2.148578e-02 -0.026666859
## 69 8.916219e-02 6.638887e-05 -2.852860e-02 0.030502066
## 70 -1.603685e-02 1.827857e-02 -4.203524e-02 0.021411960
## 71 -9.922839e-03 1.482678e-02 2.001856e-02 0.021793533
## 72 2.801482e-02 -4.934062e-02 2.872284e-02 -0.026495044
## 73 -1.701892e-02 2.191519e-02 -4.164079e-03 -0.027312477
## 74 -4.501829e-03 -1.998135e-02 3.310810e-02 0.029607132
## 76 -1.676466e-02 1.956740e-02 8.288192e-03 0.019704479
## 77 -5.189365e-03 -2.142829e-02 2.564650e-02 -0.029097492
## 79 -4.764915e-03 -1.868477e-02 -3.273011e-02 0.038096340
## 80 -7.643951e-03 -1.537295e-02 -4.720117e-03 0.016888066
## 81 -1.339331e-02 2.049269e-02 -1.924282e-02 -0.017249273
## 82 1.322209e-02 -3.238874e-02 1.092644e-03 0.033120527
## 83 -1.525665e-02 1.912367e-02 -1.902777e-02 0.024518759
## 84 -1.209537e-02 1.797638e-02 3.074801e-02 -0.019850988
## 85 -8.493636e-03 1.180744e-02 2.109321e-02 -0.015067516
## 88 -1.621750e-02 2.261506e-02 2.028934e-02 -0.025297988
## 89 6.371815e-02 -2.550129e-03 2.257384e-02 0.016929783
## 90 9.053499e-02 4.515384e-02 2.120471e-02 0.016743027
## 91 -1.409620e-02 -9.263336e-04 1.088195e-03 0.022965040
## 92 -9.477769e-03 -2.292721e-02 -2.288407e-03 -0.022759782
## 93 -1.643213e-02 2.104523e-02 2.452417e-02 0.022113045
## 95 2.131922e-03 -1.770073e-02 1.779651e-02 0.028967842
## 96 4.817106e-03 6.037158e-03 2.491379e-03 0.027656028
## 98 -4.677271e-03 2.334361e-03 6.567488e-03 0.030861127
## 99 -1.442787e-02 2.016251e-02 2.565195e-02 -0.023182558
## 100 -1.397980e-02 2.056143e-02 -5.459154e-02 -0.015254157
## 101 -1.359216e-02 1.594128e-02 -1.156977e-02 -0.023264864
## 102 4.494694e-03 6.231140e-03 3.359443e-02 0.016451569
## 103 7.850137e-02 9.348419e-05 7.363060e-03 0.020334827
## 104 5.966919e-02 2.994907e-02 -1.712286e-02 0.024191369
## 107 6.577992e-02 3.471270e-02 2.080287e-02 0.020676625
## 108 -8.960937e-03 -1.945481e-02 2.606580e-02 0.022522106
## 109 -1.559243e-02 1.764295e-02 -2.656220e-03 0.019517867
## 110 6.696579e-02 -8.911854e-03 2.546905e-03 -0.032233559
## 111 -1.486185e-02 1.859436e-02 -1.938780e-02 -0.023668397
## 112 -1.554504e-02 -6.615905e-02 -7.464258e-03 -0.027422874
## 114 -1.563615e-02 1.922621e-02 -1.334736e-02 0.021813334

```

```

## 115 -3.309388e-03 8.037469e-04 -1.655298e-02 0.025633443
## 117 -8.511517e-03 1.002574e-02 1.466891e-02 0.012403038
## 118 -1.469282e-02 1.962565e-02 8.904236e-03 -0.027152909
## 119 -5.730080e-03 -2.148357e-02 2.475654e-02 -0.028610386
## 120 -1.399784e-02 1.629612e-02 2.320329e-02 0.019995985
## 121 -7.779461e-03 -6.068015e-04 1.234505e-03 0.019863942
## 122 -1.428462e-02 2.009308e-02 -1.427568e-02 -0.019938600
## 123 -1.290049e-02 -2.408882e-02 2.082386e-02 0.017938956
## 126 -1.571365e-02 1.851984e-02 -1.259352e-02 -0.029465034
## 127 -4.195498e-03 -2.039350e-02 2.705999e-02 -0.022321971
## 128 2.151026e-02 1.358565e-02 1.661828e-02 0.019939381
## 129 -1.574336e-02 2.087059e-02 1.494739e-02 -0.027832183
## 130 -1.705404e-03 -1.440980e-02 -1.123838e-03 0.015562340
## 131 7.769268e-02 -4.785542e-03 -5.636853e-03 -0.021129302
## 133 -1.447749e-02 1.595183e-02 -1.328052e-02 -0.029705478
## 134 -1.489707e-02 1.797211e-02 2.951270e-02 -0.028924446
## 136 -1.511239e-02 1.866122e-02 -1.527621e-02 0.023468014
## 137 -1.378814e-02 1.981315e-02 3.372194e-02 -0.023365379
## 138 -1.551508e-02 1.992489e-02 -2.891000e-02 -0.026712594
## 139 -1.352514e-02 2.022484e-02 5.022834e-03 0.029629869
## 140 -2.378903e-03 3.214716e-03 2.162663e-02 -0.020925737
## 141 -3.564279e-03 -4.286262e-02 1.394398e-02 -0.022255633
## 142 3.483272e-03 -1.107657e-02 2.140023e-02 -0.017174646
## 145 -1.595600e-04 -2.922775e-02 2.986553e-02 0.010864634
## 146 -1.475343e-02 1.888785e-02 -3.334144e-02 0.029683634
## 147 -1.405149e-02 1.765626e-02 -3.759772e-02 -0.021273507
## 148 -1.560989e-02 1.817181e-02 -4.850638e-02 -0.025337262
## 149 -7.878113e-03 -5.782788e-04 -5.368747e-02 -0.019119330
## 150 6.628186e-03 6.628872e-03 -6.293634e-02 -0.017060114
## 152 -6.283576e-03 1.186802e-03 -7.021891e-02 0.025975564
## 153 -9.404040e-03 1.420433e-02 6.397609e-03 -0.013826008
## 155 2.747232e-03 4.613565e-03 2.615529e-02 -0.027049436
## 156 -3.959830e-04 -1.527350e-02 2.831943e-02 -0.019295264
## 157 -1.443398e-02 2.114188e-02 -7.192028e-02 -0.013378568
## 158 9.679397e-03 -3.591044e-02 -2.907795e-03 0.032186398
## 159 -1.482944e-02 1.803233e-02 -3.986329e-02 -0.023195288
## 160 7.330062e-03 -1.316560e-02 8.820803e-03 -0.029166031
## 161 -2.205656e-03 1.783812e-03 2.544165e-02 -0.031054644
## 164 -9.931975e-04 -1.421715e-02 -1.102898e-02 0.021423919
## 165 6.174617e-02 -1.216335e-02 2.316703e-02 0.020500320
## 166 -1.348552e-02 1.956017e-02 -1.139656e-02 -0.017766485
## 167 -5.178699e-03 7.859028e-04 2.779884e-02 -0.027103943
## 168 -7.019284e-03 -4.356657e-04 -3.527674e-02 0.028736447
## 169 7.460829e-03 -3.855313e-02 3.121199e-02 -0.028029197
## 171 -1.788392e-02 2.197941e-02 2.845805e-02 0.018427280
## 172 -1.488782e-02 1.999645e-02 2.220509e-02 0.025576146
## 174 -6.066852e-03 -1.681929e-02 1.945104e-02 -0.029608869
## 175 -1.373520e-02 1.999134e-02 -2.118906e-02 -0.018719153
## 176 1.236766e-02 9.982638e-03 -1.652520e-02 -0.024504900
## 177 -1.451072e-02 2.107356e-02 -7.280958e-03 0.032680575
## 178 2.325972e-02 1.871321e-02 1.906292e-02 0.019797681
## 179 7.186985e-02 1.605115e-02 -4.168169e-02 0.025416134
## 180 -1.490281e-02 1.860437e-02 -5.583998e-02 0.028756910
## 183 -9.649146e-03 -2.224757e-02 -3.395141e-02 -0.020953386

```

```

## 184 -1.301269e-02 2.063460e-02 -1.526645e-02 0.034800625
## 185 -1.299318e-02 2.065197e-02 -2.909260e-02 0.035963633
## 186 -1.072482e-02 1.256761e-02 1.576765e-02 0.012960990
## 187 -1.194355e-02 1.375044e-02 1.506638e-02 0.014022982
## 188 -1.419206e-02 2.135727e-02 -1.399288e-02 -0.017111995
## 190 2.400547e-02 1.427998e-02 -1.436254e-02 -0.026700294
## 191 -1.546570e-02 1.849715e-02 2.174966e-02 0.021475483
## 193 -4.726328e-03 -1.793752e-02 -8.730366e-03 -0.018344696
## 194 -1.522650e-02 1.807275e-02 -2.618264e-02 0.026610815
## 195 -1.436618e-02 1.971950e-02 -2.485806e-02 -0.023751431
## 196 -1.725675e-02 2.155297e-02 9.908592e-03 0.020000326
## 197 -2.227948e-03 -1.100592e-02 2.321369e-02 -0.020564433
## 198 3.429833e-03 -1.716187e-02 2.654800e-02 -0.030429727
## 199 3.405873e-03 -1.420666e-02 4.469983e-04 0.028246200
## 202 -1.482915e-02 1.842651e-02 -3.224953e-02 0.028489604
## 203 2.344442e-03 -3.892569e-02 -8.610056e-03 0.025879221
## 204 -1.381953e-02 1.757529e-02 2.665747e-02 -0.025302526
## 205 5.921766e-02 -3.673337e-02 2.043081e-02 -0.026566441
## 206 -1.218750e-02 1.677810e-02 -2.030560e-02 -0.017539496
## 207 -1.373317e-02 1.920530e-02 -3.639525e-02 -0.019190586
## 209 -1.501894e-02 1.884843e-02 2.423209e-02 -0.026832771
## 210 -1.384414e-02 2.166702e-02 -6.478828e-03 0.034963341
## 212 -6.298529e-03 -1.843496e-02 2.530464e-02 0.030996163
## 213 -1.596170e-02 1.795156e-02 -4.903062e-02 -0.030056350
## 214 -1.521081e-02 1.729886e-02 -3.661487e-02 0.025809591
## 215 8.665598e-03 -3.454562e-02 -4.791439e-03 0.037864436
## 216 -1.571199e-02 1.808091e-02 -7.385091e-03 0.022494058
## 217 -1.484837e-02 1.880332e-02 -2.479569e-02 -0.022772399
## 218 -3.909407e-03 -1.156779e-02 -2.854460e-02 -0.015057148
## 221 -1.482614e-02 1.950696e-02 -1.549873e-02 -0.025690669
## 222 3.621376e-02 3.025804e-03 -5.430451e-03 0.028461214
## 223 -3.706578e-03 4.618031e-03 -3.665815e-02 0.033051717
## 224 1.143693e-01 1.507098e-02 -5.306189e-03 -0.023954713
## 225 1.136924e-02 -3.071331e-02 4.222824e-03 -0.016679546
## 226 -1.914343e-03 -1.959442e-02 2.708858e-02 0.023582239
## 228 -2.044635e-03 -1.902874e-02 1.834298e-03 -0.021884874
## 229 -1.502872e-02 1.746098e-02 3.014615e-02 0.021166395
## 231 -1.359094e-02 1.511980e-02 1.971970e-02 -0.027570005
## 232 1.423665e-02 1.127549e-02 -3.536252e-02 0.021859089
## 233 -2.435406e-03 -1.700367e-02 -3.799410e-02 0.024559514
## 234 9.022593e-03 7.519778e-03 7.465584e-03 -0.024489034
## 235 -7.083169e-03 -2.209106e-02 -1.248132e-02 -0.022117835
## 236 -2.407688e-03 1.766702e-03 2.133677e-02 0.017281917
## 237 -1.464890e-02 1.917787e-02 2.726537e-02 0.025675044
## 240 2.839643e-02 1.606875e-02 2.288598e-02 0.019676771
## 241 4.930783e-03 -3.857418e-02 -2.538907e-03 0.030829486
## 242 -1.249415e-02 1.473119e-02 2.309209e-02 0.018173463
## 243 -3.799653e-03 1.919219e-03 -2.732791e-02 0.024847300
## 244 4.783629e-02 -1.868534e-02 -6.643727e-03 0.027056126
## 245 3.383667e-02 1.975649e-02 2.326236e-02 0.014571437
## 247 2.239496e-03 -3.066016e-02 -2.695096e-02 0.021490523
## 248 -1.575751e-02 1.808687e-02 2.139379e-02 0.018294873
## 250 3.087193e-02 -1.224732e-02 -6.400584e-04 0.018458511
## 251 -7.825260e-03 1.107685e-02 2.706007e-03 -0.012105638

```

```

## 252  4.913407e-02  2.633204e-02  1.316565e-02  0.012980001
## 253 -1.426620e-02  2.129126e-02  2.269561e-02  -0.020276832
## 254  9.136319e-02  2.305055e-02  1.119733e-02  0.024091921
## 255 -7.159829e-03  5.234412e-04  -3.238030e-03  -0.012894193
## 256 -2.641072e-03  2.208313e-03  -4.108875e-03  -0.030511127
## 259 -1.519267e-02  2.178763e-02  -1.913164e-02  -0.022987454
## 260 -1.552877e-02  1.848747e-02  2.241245e-02  0.019439879
## 261 -9.912267e-03  1.678205e-03  -9.381904e-03  0.026810053
## 262 -1.354314e-03  2.207504e-03  3.035357e-02  -0.027858978
## 263  7.620152e-02  -7.373051e-03  -2.363275e-04  0.021469148
## 264  3.259753e-03  -1.736402e-02  -2.277778e-02  -0.022974404
## 266  5.791945e-03  6.171115e-03  -1.240444e-02  0.024314304
## 267  3.362507e-03  5.746955e-03  5.563935e-04  -0.021639784
## 269 -1.744849e-02  2.197315e-02  -1.754226e-02  0.022759767
## 270  8.868072e-04  4.098295e-03  2.845849e-02  -0.027680849
## 271 -7.962872e-03  -2.026100e-02  1.322352e-02  0.024565834
## 272  6.097291e-02  9.197632e-03  2.489926e-02  0.023051162
## 273  1.274241e-03  -3.971641e-02  1.338782e-02  -0.026372598
## 274 -9.407502e-03  1.403368e-02  2.176486e-02  -0.014884906
## 275 -9.278646e-03  1.177996e-02  -2.746877e-03  -0.015371794
## 278  7.739647e-02  1.923440e-02  1.833940e-03  0.032561725
## 279  7.349748e-03  6.922274e-03  2.954477e-02  -0.025944859
## 280 -1.383035e-02  1.857428e-02  3.129275e-02  0.025080130
## 281 -1.575917e-02  1.847932e-02  1.966750e-02  0.019266720
## 282 -1.343566e-02  -4.262756e-02  5.421448e-03  0.031651340
## 283  8.455983e-03  -3.440382e-02  -4.216375e-02  0.042806754
## 285 -1.161248e-03  -1.870850e-02  -4.209479e-02  -0.018228473
## 286 -5.590385e-04  -1.589383e-02  -1.293644e-03  -0.024167389
## 288 -7.913091e-03  -4.128086e-02  -2.207080e-02  0.026069733
## 289 -1.512297e-02  1.884876e-02  2.573892e-02  0.020604943
## 290 -3.035577e-03  -4.284707e-02  3.285135e-02  -0.025663655
## 291  2.715857e-02  -2.787711e-02  2.446213e-02  0.022428931
## 292  9.633921e-03  -1.160813e-02  2.668947e-02  0.031907100
## 293  6.253438e-02  -5.328623e-02  5.080392e-04  -0.020391783
## 294 -1.752986e-02  2.264208e-02  2.846787e-02  0.022274921
## 297  1.138551e-04  4.314174e-03  2.465009e-02  0.010636936
## 298 -4.266199e-04  -1.561033e-02  -3.244466e-02  0.022659960
## 299  8.903956e-03  -3.691449e-02  1.263703e-02  -0.023394690
## 300 -1.426095e-02  1.912934e-02  -4.709625e-02  -0.019360216
## 301  5.790691e-02  8.046751e-03  -4.889537e-02  0.029039359
## 302 -1.511493e-02  1.777815e-02  -3.754152e-02  -0.024383939
## 304 -1.545700e-02  1.747361e-02  -4.500759e-02  0.026448411
## 305  7.181905e-02  -6.428500e-03  -3.984884e-02  0.026566554
## 307 -1.502035e-02  1.825629e-02  3.479404e-03  0.024988690
## 308 -5.251512e-03  1.462488e-03  9.474478e-03  -0.028905374
## 309  5.978309e-02  1.122419e-02  -2.327338e-02  -0.015312350
## 310  4.908184e-02  2.717765e-02  1.833728e-03  0.022388937
## 311 -1.488312e-02  1.842494e-02  -3.539948e-03  0.024266147
## 312  5.899338e-03  -1.720798e-02  7.615518e-03  0.025377955
## 313  5.437153e-02  6.541312e-03  3.261165e-02  0.025900985
## 316  3.579724e-03  -1.617614e-02  -6.758368e-03  -0.027196148
## 317 -5.989561e-03  -6.698303e-05  2.791204e-02  0.022816818
## 318  5.621302e-02  9.607630e-03  2.872453e-02  -0.019048623
## 319 -1.400270e-02  -2.022660e-02  -9.229792e-03  0.019367066

```

```

## 320 -1.392686e-02 1.962374e-02 -3.255751e-03 -0.021233729
## 321 -1.559351e-02 1.887024e-02 -1.961181e-03 0.020221116
## 323 -1.397556e-02 1.879253e-02 -4.218789e-02 0.031439638
## 324 -3.321650e-03 -1.477739e-02 -1.797311e-02 0.016710662
## 326 5.727750e-02 -1.450661e-02 -2.468429e-02 -0.021404847
## 327 -6.831300e-03 -4.456949e-02 1.955546e-02 -0.024238464
## 328 -1.526357e-02 1.803975e-02 2.479579e-02 -0.029000036
## 329 9.519208e-02 -1.062896e-02 -4.051378e-02 -0.016261293
## 330 -1.451848e-02 1.890006e-02 -2.587018e-03 -0.023789570
## 331 -7.290461e-03 -1.569599e-04 2.384161e-02 -0.027667530
## 332 -6.133074e-03 -2.685467e-02 -2.669888e-02 0.020804289
## 335 -5.499494e-03 -1.969680e-02 3.009585e-02 0.019611752
## 336 -1.578247e-02 1.909594e-02 1.808737e-02 -0.032635193
## 337 -1.4111993e-02 2.230229e-02 -4.812184e-04 -0.019767706
## 338 -1.512930e-02 1.859968e-02 -3.524280e-02 0.026749961
## 339 2.918470e-03 5.422978e-03 -8.538098e-03 -0.008985156
## 340 -1.547294e-02 2.052046e-02 -2.222510e-02 -0.025199725
## 342 -1.498255e-02 1.750208e-02 -6.771567e-03 0.024250948
## 343 5.317820e-04 3.668728e-03 -1.798808e-02 -0.031699546
## 345 4.671342e-03 4.547494e-03 3.204826e-02 0.021657140
## 346 -1.692423e-03 -4.090935e-02 1.155711e-02 -0.016737301
## 347 4.447654e-02 -1.027397e-02 5.421686e-03 -0.020717532
## 348 -4.184566e-04 -3.829228e-02 3.321088e-02 0.023463521
## 349 9.564286e-03 7.676789e-03 -3.163361e-02 -0.022183531
## 350 -1.547048e-02 1.726465e-02 -2.303489e-03 0.022600424
## 351 -1.467380e-02 1.935267e-02 -4.838744e-02 -0.019449577
## 354 -2.055757e-03 9.939461e-04 1.436815e-02 -0.018373674
## 355 -1.513563e-02 1.839709e-02 -1.112817e-02 0.024398506
## 356 -1.448068e-02 1.814586e-02 3.378227e-02 -0.028217299
## 357 -1.512068e-02 1.836392e-02 -3.083355e-02 -0.023673502
## 358 2.113534e-03 -1.560012e-02 -1.108671e-02 -0.018187987
## 359 1.900958e-03 3.958323e-03 2.692699e-03 0.024365793
## 361 6.562263e-02 1.756702e-02 1.674717e-02 0.013753331
## 362 9.649025e-02 6.297156e-03 7.560730e-03 -0.014981904
## 364 -1.359328e-02 1.625170e-02 -5.226291e-02 0.026333199
## 365 -4.418462e-03 -4.017387e-02 -2.377714e-02 -0.017372280
## 366 1.132756e-02 -3.256316e-02 2.891480e-02 0.032214010
## 367 -1.385996e-02 2.047116e-02 -1.545664e-02 -0.018350392
## 368 -3.997266e-03 -6.527118e-02 -1.178169e-02 0.031227332
## 369 1.777339e-02 1.183791e-02 -5.221274e-03 0.022327680
## 370 -2.564229e-03 -1.786563e-02 7.586188e-03 -0.019976599
## 373 -2.703960e-03 2.913504e-03 -8.968233e-03 -0.020062848
## 374 -8.542321e-03 -4.488945e-02 -5.060098e-02 -0.015946156
## 375 -1.360308e-02 2.069986e-02 3.326932e-02 -0.021302879
## 376 -1.492215e-02 1.834371e-02 -5.039685e-03 0.026008618
## 377 8.020403e-02 1.836356e-02 -2.522290e-02 0.021118841
## 378 -1.341365e-02 2.067154e-02 -2.492792e-02 0.034995077
## 380 2.886330e-02 1.622198e-02 2.660050e-02 0.017916611
## 381 -1.420094e-02 1.898581e-02 -1.311381e-02 -0.022259225
## 383 5.476650e-02 2.922547e-02 3.138128e-02 -0.025441367
## 384 -7.176312e-03 -1.316395e-02 2.502945e-02 0.012704634
## 385 2.102227e-03 -3.852938e-02 3.294703e-02 -0.019408849
## 386 -1.182897e-02 1.725418e-02 -2.962360e-02 -0.016071366
## 387 -1.366868e-02 1.985360e-02 1.284669e-02 -0.021599491

```

```

## 388 8.358593e-03 8.537623e-03 -4.968335e-02 -0.026036075
## 389 6.947142e-03 -2.927401e-02 2.752618e-02 0.017109161
## 392 -1.834891e-02 2.276085e-02 -3.037539e-03 0.020677553
## 393 -1.379862e-02 2.170755e-02 -2.009175e-02 -0.015244408
## 394 -8.910289e-03 -7.639987e-04 -4.842578e-03 0.025315589
## 395 1.032641e-01 5.600804e-03 -1.121413e-03 0.022204288
## 396 -1.475660e-02 1.811723e-02 2.306954e-02 0.017786425
## 397 -1.415954e-02 2.138622e-02 -3.237444e-02 0.035902796
## 399 -9.577372e-04 -1.935107e-02 1.359182e-02 -0.023899469
## 400 -1.428852e-02 2.008961e-02 2.765057e-02 -0.023270791
## 402 -1.642751e-02 1.773380e-02 -2.423055e-03 0.016481061
## 403 -7.316666e-03 1.884911e-03 2.182278e-02 0.027908529
## 404 -1.543081e-02 1.729996e-02 2.599385e-02 0.020500324
## 405 -1.473373e-02 1.870842e-02 -5.563383e-02 -0.020348591
## 406 4.058961e-02 5.018665e-04 -2.598315e-02 -0.020198970
## 407 -1.299981e-02 -6.915859e-02 -5.698413e-03 -0.026104852
## 408 5.538342e-03 -1.574824e-02 2.537165e-02 0.024410484
## 411 6.366709e-03 -1.584505e-02 -4.479654e-02 0.030535279
## 412 -1.474951e-02 1.893781e-02 -3.212957e-02 0.027840341
## 413 -8.229578e-05 -1.842750e-02 1.423617e-02 -0.020886172
## 414 -1.387122e-02 1.927935e-02 -1.087003e-03 -0.022050608
## 415 -5.237492e-04 -5.860764e-02 1.271425e-02 0.026950448
## 416 -7.207083e-03 -2.137738e-02 2.783860e-02 -0.023417677
## 418 1.504885e-02 -3.326742e-02 4.741139e-03 -0.018680541
## 419 -7.970412e-03 9.018091e-03 1.196020e-02 -0.015534805
## 421 6.448044e-03 8.660429e-03 -2.672581e-02 0.035721143
## 422 -1.689314e-02 1.984694e-02 8.603580e-04 0.020681242
## 423 -1.460109e-02 2.143585e-02 2.492600e-02 0.027288898
## 424 -1.481852e-02 1.966422e-02 2.448579e-02 -0.026646965
## 425 -5.393452e-04 -3.892637e-02 -1.581860e-02 0.013426375
## 426 1.182654e-02 -3.516576e-02 -3.101637e-02 -0.019148506
## 427 -2.697302e-03 -4.299207e-02 4.012452e-03 0.024622596
## 430 -6.025955e-03 -2.097978e-02 -9.825096e-03 0.031824054
## 431 -1.466946e-02 1.817476e-02 3.406348e-03 0.025388469
## 432 2.485639e-03 -1.779133e-02 -1.074020e-03 -0.023100046
## 433 -4.914714e-03 3.163157e-04 1.654716e-02 0.017751829
## 434 -1.360316e-02 1.631188e-02 1.408015e-03 0.018986685
## 435 -1.625593e-02 1.977688e-02 -1.851208e-03 0.023638245
## 437 -1.103110e-02 -1.919022e-03 -4.115743e-03 0.021529689
## 438 -2.451157e-03 2.724806e-03 2.685132e-02 -0.025120961
## 440 9.583082e-02 2.525830e-02 -2.312355e-02 0.026753747
## 441 -1.430712e-02 1.908823e-02 3.177970e-02 -0.025765757
## 442 -1.391982e-02 1.903913e-02 3.666720e-02 -0.025630420
## 443 6.762056e-02 -8.512455e-03 2.688603e-02 -0.026381271
## 444 2.924077e-04 -1.209977e-02 3.458080e-03 0.024497412
## 445 3.992315e-03 8.860876e-03 -9.015004e-03 -0.024268489
## 446 6.406141e-04 -1.064386e-02 5.830124e-03 0.015075364
## 449 -5.427993e-03 -6.807936e-04 -3.295109e-02 -0.012999405
## 450 -2.042382e-03 -4.258009e-02 -1.283885e-02 -0.022455549
## 451 -1.710546e-02 2.400474e-02 -9.630998e-03 -0.022558501
## 452 -1.319846e-02 1.586137e-02 -2.208485e-02 0.023501757
## 453 -1.943500e-03 -1.968430e-02 2.997211e-02 -0.025365482
## 454 -1.459160e-02 1.844104e-02 1.717432e-02 0.024993314
## 456 -1.431239e-02 1.991787e-02 6.180893e-03 -0.023837167

```

| | | | | |
|--------|----------------|---------------|---------------|--------------|
| ## 457 | -1.023322e-02 | 1.348264e-02 | 5.291017e-04 | -0.017723767 |
| ## 459 | -2.425738e-03 | -1.090935e-02 | -1.931687e-02 | 0.011144885 |
| ## 460 | -1.617082e-02 | 1.815930e-02 | -5.245746e-02 | -0.029680104 |
| ## 461 | -1.447933e-02 | 1.759056e-02 | -1.621628e-02 | 0.025746337 |
| ## 462 | -1.741082e-02 | 2.417329e-02 | 2.462929e-02 | 0.024180371 |
| ## 463 | -1.463488e-02 | 1.879643e-02 | 2.909294e-02 | 0.024738671 |
| ## 464 | 5.434171e-03 | 5.824051e-03 | -7.136260e-03 | -0.024751213 |
| ## 465 | -1.560086e-02 | 1.901419e-02 | -4.057516e-03 | -0.028902576 |
| ## 468 | 5.723499e-02 | 3.140054e-02 | 2.427411e-02 | -0.033097950 |
| ## 469 | 8.819284e-02 | 2.122961e-02 | 2.772078e-02 | 0.021138870 |
| ## 470 | 8.251832e-02 | 4.056191e-02 | -2.625805e-03 | -0.027408415 |
| ## 471 | -1.385887e-02 | 1.929035e-02 | -2.429585e-02 | -0.020170140 |
| ## 472 | 1.654993e-03 | 3.786849e-03 | -2.200939e-02 | -0.023450098 |
| ## 473 | -1.067321e-02 | 1.266640e-02 | -1.217679e-02 | 0.016808834 |
| ## 475 | -7.208936e-03 | -1.154184e-02 | 3.712805e-04 | -0.028480356 |
| ## 476 | -1.226932e-02 | 1.591520e-02 | 1.224052e-02 | 0.022201172 |
| ## 478 | -1.585642e-02 | 1.883314e-02 | 1.833746e-02 | -0.033335832 |
| ## 479 | -1.5559084e-02 | 1.803829e-02 | 2.361631e-02 | -0.033160383 |
| ## 480 | -1.039332e-02 | 1.535476e-02 | 8.905733e-04 | -0.014631512 |
| ## 481 | -3.822726e-03 | -1.534481e-02 | -6.465067e-03 | -0.016382741 |
| ## 482 | 5.064532e-02 | 6.591682e-03 | 2.646933e-02 | 0.016536446 |
| ## 483 | -1.019782e-02 | -2.340409e-02 | 1.329622e-02 | -0.021808582 |
| ## 484 | 7.549625e-02 | 1.770626e-02 | -1.908582e-02 | 0.023072878 |
| ## 487 | -7.398985e-03 | -6.667074e-02 | -3.085460e-03 | 0.024138622 |
| ## 488 | -8.315643e-03 | 1.069864e-02 | 1.561136e-02 | 0.014137737 |
| ## 489 | -1.524925e-02 | 1.809897e-02 | 2.782817e-03 | 0.022476978 |
| ## 490 | -1.185269e-03 | -1.689599e-02 | 3.038112e-02 | -0.017333294 |
| ## 491 | -1.471097e-02 | 1.872868e-02 | 5.159093e-03 | 0.026365215 |
| ## 492 | -8.565540e-03 | -1.953494e-02 | -1.424043e-02 | 0.030543315 |
| ## 494 | -1.511404e-02 | 2.158136e-02 | -2.855028e-02 | -0.019992567 |
| ## 495 | -1.374744e-02 | -1.083398e-03 | 2.097950e-02 | 0.013979215 |
| ## 497 | -1.511168e-02 | 1.778105e-02 | 2.775351e-02 | -0.029540585 |
| ## 498 | 8.329839e-03 | -3.522266e-02 | -4.637650e-03 | -0.023721360 |
| ## 499 | -1.100644e-02 | 1.713347e-02 | -1.747797e-03 | -0.013459253 |
| ## 500 | -1.411528e-02 | 1.925903e-02 | 3.335231e-02 | -0.025214965 |
| ## 501 | -1.500929e-02 | 1.826613e-02 | -1.041605e-02 | -0.025318015 |
| ## 502 | -1.001773e-02 | 1.426945e-02 | 2.659762e-03 | 0.021621943 |
| ## 503 | -1.416546e-02 | 1.862347e-02 | 3.550994e-02 | -0.026823970 |
| ## 506 | -1.482413e-02 | 1.862794e-02 | -5.092533e-03 | 0.026778339 |
| ## 507 | -3.143005e-03 | -4.255195e-02 | -1.642299e-02 | -0.021326918 |
| ## 508 | -7.266585e-03 | -4.306029e-02 | -1.615786e-02 | 0.024143818 |
| ## 509 | -1.449439e-02 | 2.030025e-02 | -4.568001e-02 | -0.017350230 |
| ## 510 | -8.081332e-03 | 1.062877e-02 | -8.035797e-03 | 0.016220863 |
| ## 511 | 6.643939e-02 | -1.143622e-02 | 1.792653e-02 | 0.022817740 |
| ## 513 | 4.589529e-02 | 2.232214e-03 | 2.120857e-02 | 0.018295933 |
| ## 514 | -3.345421e-03 | 4.140077e-03 | -7.760996e-03 | -0.016895610 |
| ## 516 | -1.534018e-02 | 2.128831e-02 | 2.378685e-02 | 0.022801039 |
| ## 517 | -9.383848e-03 | -2.209112e-02 | 3.438500e-03 | -0.020559156 |
| ## 518 | 3.277096e-03 | 4.969141e-03 | 2.826896e-02 | -0.026314505 |
| ## 519 | -1.468281e-02 | -1.873200e-02 | -6.788792e-02 | -0.022564518 |
| ## 520 | 6.244543e-02 | 1.038507e-02 | -2.697950e-03 | -0.022051011 |
| ## 521 | 2.451826e-03 | -1.834314e-02 | 3.054288e-02 | 0.023823752 |
| ## 522 | -9.918782e-03 | 1.579766e-02 | 2.940202e-02 | -0.016857430 |
| ## 525 | 4.331588e-02 | 2.293462e-02 | 1.794870e-02 | 0.013890794 |

```

## 526 -1.558282e-02 1.927369e-02 1.972395e-02 0.019383445
## 527 -1.558209e-02 1.848648e-02 -4.677520e-02 0.022967262
## 528 -1.490417e-02 2.196517e-02 -9.038107e-03 -0.020377701
## 529 6.211147e-03 -3.884042e-02 4.200607e-03 0.026783966
## 530 -6.330636e-03 -4.418495e-02 2.777209e-02 0.021094978
## 532 -3.262225e-03 -2.032560e-02 -7.932686e-03 -0.021379372
## 533 4.239691e-03 7.185348e-03 -2.028945e-02 -0.027895851
## 535 7.412047e-03 9.135343e-03 2.510041e-02 0.031834971
## 536 7.977898e-03 7.150978e-03 3.769793e-04 -0.024164877
## 537 -4.391129e-03 2.206853e-03 -2.511167e-03 -0.026319603
## 538 -1.484114e-02 1.802190e-02 -7.325058e-03 0.025633554
## 539 -1.925619e-02 2.274095e-02 3.272023e-02 -0.035109435
## 540 -1.568031e-02 1.830609e-02 -7.981690e-03 0.023073336
## 541 1.192390e-02 -1.356821e-02 -1.792366e-02 0.028256576
## 544 -8.024528e-03 1.055653e-02 -1.300395e-02 0.016401823
## 545 -1.156053e-02 1.574726e-02 -3.614743e-02 -0.016486496
## 546 5.439795e-03 6.272089e-03 2.969867e-02 -0.027333230
## 547 -7.483633e-03 -4.125018e-02 -8.532091e-03 -0.006529733
## 548 -1.459522e-02 1.883174e-02 2.941812e-02 0.024852564
## 549 -1.444499e-02 1.896549e-02 -2.995679e-02 -0.021364597
## 551 -1.428844e-02 1.930183e-02 -2.020580e-02 0.030280606
## 552 -9.115000e-03 1.277708e-02 2.082516e-02 0.017750083
## 554 3.693421e-03 -3.885579e-02 -4.353673e-02 -0.016141609
## 555 -1.204223e-02 -4.582572e-02 3.257937e-02 -0.021630627
## 556 -1.394283e-02 2.000345e-02 -5.171958e-02 -0.016612972
## 557 6.834287e-03 -1.540713e-02 6.046927e-03 0.029548112
## 558 -1.286551e-02 1.508759e-02 -1.119817e-03 -0.023869514
## 559 4.195169e-02 6.395129e-04 -1.156746e-02 -0.029748532
## 560 9.347231e-03 8.588207e-03 -2.143289e-02 0.031998500
## 563 1.330267e-02 1.228200e-02 -3.228006e-02 -0.017284550
## 564 -2.557717e-03 -4.145582e-02 -3.314636e-02 -0.016812842
## 565 -1.536695e-02 1.804066e-02 2.630794e-02 0.018439546
## 566 3.713828e-02 -1.799534e-03 2.802438e-02 0.020560117
## 567 -3.256451e-03 -3.981839e-02 2.832009e-02 -0.018463747
## 568 -7.476228e-03 -4.460878e-02 -2.205911e-02 -0.019993288
## 570 2.821369e-02 -5.368888e-03 -1.791076e-02 -0.022351811
## 571 -1.539987e-02 2.061835e-02 -2.121049e-02 0.025790564
## 573 -1.508278e-02 1.820070e-02 2.627777e-02 -0.028480985
## 574 -1.417908e-02 1.999008e-02 2.940397e-02 -0.023444911
## 575 6.142300e-02 9.142115e-03 2.910543e-02 -0.028500445
## 576 -1.186606e-02 -4.746635e-02 -1.466512e-02 0.028971919
## 577 4.780519e-02 2.470791e-02 -1.218066e-02 0.023722517
## 578 -4.508054e-03 -2.971365e-02 2.524850e-02 -0.020070429
## 579 -1.405191e-02 1.970938e-02 -4.750665e-04 0.029972022
## 582 -1.643362e-02 1.875966e-02 1.307323e-02 0.015574586
## 583 1.596461e-04 -3.992096e-02 -6.045710e-02 0.037816576
## 584 -1.643915e-03 -3.866416e-02 -1.441542e-02 -0.022669338
## 585 -4.135960e-03 7.969158e-04 2.589433e-02 0.021661176
## 586 -1.387921e-02 1.946921e-02 3.528743e-02 -0.024537212
## 587 -4.176702e-03 1.966846e-03 -1.431216e-02 0.029959740
## 589 -1.316509e-02 -2.513450e-02 2.977648e-02 0.025441825
## 590 -1.515431e-02 1.813702e-02 -2.092889e-02 -0.024996378
## 592 -1.361807e-02 1.724978e-02 -3.918531e-02 -0.020525128
## 593 -4.119672e-03 -4.384394e-02 3.263023e-02 0.024144594

```

```

## 594  4.347614e-03 -1.690184e-02  4.315095e-05 -0.028506672
## 595 -1.444889e-02  1.896202e-02 -4.397485e-02 -0.020268803
## 596  3.831973e-03 -1.760491e-02 -6.077475e-02  0.030631881
## 597 -1.874993e-03 -3.966039e-02 -1.856504e-02  0.037241048
## 598  2.385586e-03  3.577661e-03  9.386922e-03  0.023380847
## 601 -9.128251e-03  1.112314e-02 -3.386155e-03 -0.016092410
## 602  4.295188e-02  7.431111e-03 -6.553608e-03 -0.017754419
## 603 -1.684679e-02  1.964476e-02 -4.104146e-02 -0.025943942
## 604  1.073635e-02 -1.094876e-02  3.852953e-02  0.036750697
## 605 -1.101088e-02 -1.420014e-03 -2.323947e-02 -0.021263405
## 606 -1.430741e-02  1.869405e-02 -4.110242e-02 -0.020839226
## 608 -1.337464e-02  1.921167e-02  1.709855e-02 -0.021479857
## 609  9.709704e-03  8.216022e-03 -5.049827e-02 -0.019206189
## 611 -4.717700e-03 -3.662534e-02 -4.358337e-02 -0.027927751
## 612 -1.476542e-02  1.848325e-02 -4.571318e-02  0.029779574
## 613 -1.476199e-02  1.828934e-02  1.111560e-02  0.024873135
## 614  7.916532e-02  1.347127e-03  4.167293e-02 -0.034735866
## 615 -1.560012e-02  1.827347e-02 -2.741854e-02  0.020951198
## 616  3.100257e-03 -1.412104e-02  3.495784e-02 -0.018767233
## 617  4.555815e-02  4.937635e-03  2.546927e-02  0.023196053
## 620  3.758201e-02 -1.391197e-03 -2.992338e-03 -0.023677880
## 621 -5.000325e-03 -4.277195e-02  1.920491e-02 -0.020014266
## 622 -2.396282e-03  5.067366e-03  6.875908e-03  0.012199642
## 623 -6.728763e-03 -6.597217e-02 -1.488445e-02  0.033780606
## 624 -1.499441e-02  1.906723e-02  2.357686e-02 -0.026274031
## 625  4.342227e-02  1.855790e-03 -2.523291e-02 -0.017544736
## 627 -1.531866e-02  1.779373e-02  2.520047e-02  0.021798912
## 628  1.348842e-02 -1.120636e-02  4.251169e-03  0.036403400
## 630 -9.573855e-03  1.138898e-02  1.590265e-02 -0.018155270
## 631 -3.606634e-03  2.072017e-03  1.550936e-02  0.026548560
## 632  1.675696e-02 -1.183621e-02 -8.555676e-03 -0.026121247
## 633  1.602397e-03 -1.543637e-02  3.361032e-02 -0.016249472
## 634 -1.3722228e-02 -6.379490e-02  2.240979e-02  0.023280523
## 635  6.803483e-02  1.485349e-02  2.429771e-02 -0.020842684
## 636 -6.584852e-03  2.616670e-03  3.462575e-02 -0.027399526
## 639  3.342892e-03  4.745217e-03 -4.611485e-03 -0.024609942
## 640 -7.304420e-03  1.074413e-02  2.347196e-03 -0.010670757
## 641 -1.524286e-02  1.746729e-02 -7.503010e-02 -0.022287557
## 642 -1.161438e-02  1.708181e-02 -1.190210e-02 -0.016431895
## 643  6.614678e-02  1.223628e-02 -1.870006e-02 -0.020937609
## 644 -1.619888e-02  2.007112e-02 -5.722044e-03 -0.028640599
## 646  3.755000e-03 -1.678845e-02 -2.105829e-02 -0.019316933
## 647  9.188359e-02  4.789941e-02 -2.304949e-02 -0.027535482
## 649  6.395563e-02  3.333611e-02 -8.409533e-03 -0.027043496
## 650 -1.497806e-02  2.197870e-02  1.526174e-02  0.026491136
## 651 -4.943754e-03  5.524495e-04  1.571685e-02 -0.018377466
## 652 -7.522648e-04  3.335492e-03  2.375430e-02 -0.028517164
## 653 -1.540373e-02  1.840184e-02  2.429379e-02 -0.032134871
## 654 -6.234347e-03 -2.144255e-02  3.901427e-02 -0.022882545
## 655 -6.537972e-04 -1.925366e-02  3.140701e-02 -0.025675178
## 658 -1.000662e-02  1.588843e-02 -1.462781e-03 -0.014760311
## 659 -1.473804e-02  2.131159e-02  1.829498e-02 -0.022509387
## 660  2.191399e-02  1.334427e-02 -5.875618e-03  0.018786826
## 661  8.985675e-03 -1.219587e-02 -5.724257e-02 -0.021077249

```

```

## 662 -8.895845e-03 1.216133e-02 -2.549499e-02 0.020149478
## 663 7.715494e-02 3.858436e-02 2.585519e-02 0.021243254
## 665 9.659684e-04 4.934435e-03 2.496852e-02 -0.023481393
## 666 1.931498e-03 3.327572e-03 -6.370940e-03 -0.011383096
## 668 -1.502659e-02 1.726591e-02 -2.958639e-02 0.025481188
## 669 -1.472297e-02 1.832408e-02 1.143546e-02 0.024985161
## 670 -1.639026e-02 2.009770e-02 2.914907e-02 0.019791719
## 671 -1.312098e-02 -3.032028e-03 -2.859611e-03 0.026987449
## 672 -1.831352e-02 2.061212e-02 5.907932e-03 -0.034848134
## 673 1.006199e-01 4.940547e-02 1.090126e-02 0.022769269
## 674 1.368733e-03 6.016426e-03 -1.840038e-02 -0.015059155
## 677 -1.371179e-02 2.001219e-02 3.494717e-02 -0.023079922
## 678 -1.409696e-02 1.986623e-02 -6.362736e-03 0.030699983
## 679 -9.909552e-03 1.493247e-02 -1.415558e-02 -0.013715685
## 680 -1.655857e-02 2.311290e-02 -1.313978e-02 0.028145890
## 681 -5.877473e-03 -2.619296e-02 -3.497928e-03 0.012469028
## 682 -1.493049e-02 1.897366e-02 2.826846e-03 -0.026588350
## 684 -1.488088e-02 1.882086e-02 2.739994e-02 -0.028779235
## 685 -1.664666e-02 2.006638e-02 2.619089e-02 -0.031901565
## 687 -1.593005e-02 2.287097e-02 -6.645398e-04 -0.022627741
## 688 -1.812862e-02 2.195852e-02 -3.967254e-02 -0.028066414
## 689 -1.528473e-02 1.846131e-02 2.408946e-02 0.021506743
## 690 -1.599329e-02 1.827088e-02 1.774839e-02 -0.032850873
## 691 -1.433318e-02 2.123163e-02 -5.825626e-03 -0.018255150
## 692 4.690579e-03 -1.774924e-02 7.999326e-03 0.024314378
## 693 -1.814083e-02 2.037195e-02 4.374213e-03 0.016485503
## 696 -6.183790e-03 -1.885070e-02 -2.262309e-02 0.032256350
## 697 3.359849e-03 -3.912742e-02 1.482173e-02 0.029720720
## 698 -1.467271e-02 1.817186e-02 -1.282333e-03 -0.025697309
## 699 2.374506e-03 4.071009e-03 3.296639e-02 0.024434376
## 700 -5.836000e-03 -4.448281e-02 3.562897e-02 0.025235907
## 701 -1.585447e-02 1.883487e-02 1.835345e-02 -0.033330231
## 703 5.211499e-02 3.002933e-02 -3.088697e-03 -0.024961527
## 704 -1.437057e-02 1.847556e-02 -9.580130e-03 -0.023358745
## 706 -1.365131e-02 2.006603e-02 -2.982543e-02 -0.017740301
## 707 -9.526471e-03 -1.680483e-04 2.118953e-02 -0.031418986
## 708 -7.152794e-03 -5.431470e-02 -2.279121e-03 0.026701595
## 709 -1.554884e-02 2.025592e-02 3.861534e-02 -0.030702948
## 710 5.094334e-03 -1.634371e-02 1.752716e-02 0.027591731
## 711 4.147945e-03 5.511591e-03 -2.036966e-02 -0.020117659
## 712 -1.051601e-03 -1.882315e-02 6.249363e-03 0.028294620
## 715 9.520902e-03 1.104189e-02 -7.175154e-02 0.027055529
## 716 -1.502407e-02 1.805601e-02 -3.299098e-02 0.027441686
## 717 -7.010531e-03 -4.521380e-02 -5.653680e-02 -0.020440443
## 718 -1.586109e-02 1.819161e-02 1.968837e-02 -0.032959644
## 719 -1.646157e-02 1.881167e-02 2.109030e-02 -0.032016732
## 720 -8.279722e-04 -3.023191e-02 -9.302774e-03 -0.012894240
## 722 -1.382176e-02 1.641095e-02 2.777830e-02 -0.027324575
## 723 9.087908e-03 -1.351189e-02 2.874467e-02 -0.024694977
## 725 -1.724179e-02 2.156629e-02 -8.616903e-03 0.021519264
## 726 9.090877e-02 4.766993e-02 2.230731e-02 -0.022240899
## 727 -1.866946e-02 2.523295e-02 -1.765371e-02 0.026593615
## 728 -2.238442e-04 2.343766e-03 3.219088e-02 -0.028813915
## 729 6.013092e-03 -3.686933e-02 -4.073288e-02 -0.016705186

```

```

## 730  6.941689e-02  3.436525e-02 -1.818219e-02  0.017648638
## 731 -1.266126e-02  1.996266e-02 -4.073822e-02  0.035951023
## 734 -1.567137e-02  1.860396e-02  2.156706e-02  0.017664281
## 735  5.209469e-03  5.971433e-03 -4.892940e-02 -0.019354540
## 736  3.798180e-05 -3.850161e-02 -3.510274e-02 -0.026838852
## 737  1.992359e-03   7.369552e-03  3.041231e-02 -0.018320448
## 738  1.891103e-03 -1.670956e-02 -4.681087e-02  0.035560659
## 739 -1.153272e-02  1.684665e-02  1.960586e-02 -0.019705569
## 741 -1.089555e-02  1.340500e-02 -1.265559e-02 -0.017486068
## 742 -9.296400e-03 -6.126060e-02  3.939856e-02  0.026281211
## 744  6.819522e-03 -3.501811e-02 -1.596719e-02  0.031692577
## 745  6.381069e-03 -5.912489e-02  2.807182e-02 -0.020966851
## 746 -1.612551e-02  2.313736e-02  2.051059e-02  0.025533665
## 747 -6.011910e-03  8.097433e-04  2.639143e-02 -0.026003259
## 748 -1.076223e-02 -2.406604e-02  5.608734e-03 -0.024508408
## 749 -1.404652e-02 -4.689887e-02 -1.621729e-02  0.027012909
## 750  1.906033e-03 -1.545852e-02  2.149858e-02  0.030228855
## 753 -3.634264e-03  1.543039e-03  3.067853e-02  0.024425920
## 754 -1.122692e-02 -4.689995e-02 -4.789322e-03  0.029206185
## 755  1.142665e-04 -1.196060e-02 -6.817672e-03  0.016866625
## 756 -1.330134e-02  1.995710e-02  2.159535e-02 -0.018841080
## 757 -1.508361e-02  1.839693e-02 -1.654361e-02 -0.024674073
## 758  3.056964e-03 -1.802350e-02 -1.311790e-03  0.025446963
## 760  7.595225e-02  3.822926e-02 -8.075311e-04  0.020428721
## 761 -6.582832e-03  4.197506e-04  1.247409e-03  0.022110567
## 763 -1.337217e-02 -3.374418e-03 -6.310241e-03  0.017741083
## 764  5.224985e-02  2.781713e-02  2.193293e-02 -0.023076197
## 765 -6.917961e-03 -2.175068e-02 -1.640325e-02 -0.024194132
## 766  1.165078e-02 -3.382253e-02 -4.922760e-02 -0.022030466
## 767 -1.553354e-02  1.730146e-02  2.751134e-02  0.016496332
## 768 -1.245521e-02  1.430486e-02  1.879446e-02 -0.024282820
## 769 -1.000656e-02  1.271094e-03  1.504878e-02 -0.016772746
## 772 -1.052784e-02  1.367837e-02 -8.652619e-03  0.020384685
## 773 -1.394909e-02  1.725332e-02 -4.559199e-02  0.027935095
## 774 -9.257873e-03  1.239966e-02  1.912853e-02 -0.017346602
## 775  3.467143e-04 -4.597404e-02 -1.363083e-03 -0.016055587
## 776 -1.185186e-02 -2.028960e-02 -7.861210e-03  0.024008727
## 777 -1.311525e-02  1.857636e-02  4.904902e-03 -0.020662445
## 779 -8.768798e-03  1.235291e-02 -1.379950e-02 -0.012441885
## 780  1.031313e-01  2.848884e-02  6.304845e-03 -0.028520448
## 782 -8.354018e-03  1.140008e-02  2.246359e-03 -0.013388522
## 783 -7.740032e-03 -2.177708e-02  1.928513e-02  0.018517381
## 784 -1.225511e-02  1.520140e-02  2.038932e-02 -0.022302155
## 785  8.260151e-03 -3.785673e-02 -2.219669e-02  0.020255727
## 786 -6.474856e-03 -6.640932e-02  2.132461e-02  0.026589081
## 787 -1.568604e-02  1.898483e-02 -3.621016e-02 -0.028418670
## 788 -1.040045e-02 -2.333738e-02  3.968868e-02  0.028882824
## 791 -2.052318e-03  1.637371e-03 -1.161290e-02  0.026082929
## 792 -3.170389e-03 -4.282190e-02 -1.211199e-02  0.031281479
## 793 -1.368773e-02  2.003361e-02  7.172255e-03  0.030648594
## 794 -1.363929e-02  2.184940e-02 -1.878568e-02  0.036658470
## 795 -1.508064e-02  1.800564e-02 -8.205824e-04  0.024696259
## 796  4.732201e-02  2.812774e-02 -3.914268e-02 -0.020275493
## 798 -5.894920e-03 -6.496046e-02  2.985485e-02  0.030559000

```

| | | | | |
|--------|---------------|---------------|---------------|--------------|
| ## 799 | 2.988283e-03 | 3.679673e-03 | 1.528483e-02 | 0.022645509 |
| ## 801 | -1.741710e-02 | 2.175766e-02 | -2.693250e-02 | -0.026491351 |
| ## 802 | -1.412518e-02 | 2.082592e-02 | 2.642052e-02 | -0.021336913 |
| ## 803 | -1.884229e-02 | 2.354985e-02 | 2.946074e-03 | -0.032216023 |
| ## 804 | -1.314833e-02 | 2.142597e-02 | 1.964309e-02 | -0.021838242 |
| ## 805 | 4.034413e-03 | -1.664365e-02 | 2.184514e-02 | -0.030519499 |
| ## 806 | -1.498310e-02 | 1.809249e-02 | -9.345003e-03 | 0.025714320 |
| ## 807 | -1.570749e-02 | 2.149341e-02 | -2.462373e-02 | 0.028133176 |
| ## 810 | -8.523612e-03 | 9.941735e-03 | -4.697776e-04 | 0.013414899 |
| ## 811 | 1.305103e-03 | -1.383066e-02 | -3.001686e-02 | 0.023480334 |
| ## 812 | -1.790365e-02 | 2.073359e-02 | 3.225445e-02 | -0.034150155 |
| ## 813 | -8.881707e-03 | -2.067350e-02 | -6.061956e-03 | -0.016989644 |
| ## 814 | -6.317728e-03 | 3.653759e-04 | -6.528042e-03 | -0.032339606 |
| ## 815 | -3.466556e-03 | -2.788834e-02 | 2.729442e-02 | 0.020149121 |
| ## 817 | -1.539032e-02 | 1.944507e-02 | 2.130189e-02 | -0.031509338 |
| ## 818 | -1.158859e-02 | 2.131159e-02 | -5.685731e-03 | -0.013652131 |
| ## 820 | -1.536619e-02 | 1.863222e-02 | -4.226989e-03 | -0.029324797 |
| ## 821 | -2.669675e-03 | -2.049401e-02 | 3.479807e-02 | -0.026020193 |
| ## 822 | -1.600889e-02 | 1.830347e-02 | -4.509804e-03 | 0.018540255 |
| ## 823 | -1.555601e-02 | 1.767537e-02 | -7.019717e-03 | 0.019991423 |
| ## 824 | 7.164782e-02 | 1.451806e-02 | -1.915513e-02 | 0.028225911 |
| ## 825 | -1.477666e-02 | 1.867021e-02 | 2.793081e-02 | -0.027113795 |
| ## 826 | -5.491949e-03 | -4.081101e-02 | 4.245477e-02 | -0.024425422 |
| ## 829 | 1.082581e-02 | -7.160631e-03 | -3.404095e-04 | 0.028035074 |
| ## 830 | 2.633304e-04 | -1.735568e-02 | -5.434915e-03 | 0.033606117 |
| ## 831 | -1.207942e-02 | -2.013364e-03 | 3.542914e-02 | -0.024277170 |
| ## 832 | -1.496189e-02 | 1.909618e-02 | -2.743889e-02 | -0.022121691 |
| ## 833 | 4.638999e-02 | 2.561553e-02 | 1.357611e-02 | 0.026462111 |
| ## 834 | -1.441148e-02 | 2.090742e-02 | 2.675677e-02 | 0.024211311 |
| ## 836 | 6.929505e-03 | -1.563865e-02 | -3.656505e-02 | -0.019599045 |
| ## 837 | -1.417279e-02 | 2.120428e-02 | -1.434717e-02 | -0.017174961 |
| ## 839 | -1.381878e-02 | 2.168960e-02 | 2.636326e-02 | 0.032453166 |
| ## 840 | -1.421977e-02 | 2.034778e-02 | 2.735783e-02 | -0.022585089 |
| ## 841 | -1.423108e-02 | 2.132253e-02 | 2.298348e-02 | -0.020176009 |
| ## 842 | 4.863178e-02 | -3.517915e-02 | 8.241570e-03 | -0.035080059 |
| ## 843 | -1.444694e-02 | 1.896375e-02 | -6.662647e-03 | 0.028230249 |
| ## 844 | -1.086196e-02 | 1.636616e-02 | 1.791863e-02 | -0.015343722 |
| ## 845 | -1.511265e-02 | 1.959932e-02 | -1.141577e-02 | 0.027025333 |
| ## 848 | -2.654175e-03 | -6.204717e-02 | -4.548121e-02 | -0.009344088 |
| ## 849 | 1.052121e-03 | -1.138097e-02 | -4.677211e-04 | -0.018686984 |
| ## 850 | -1.174669e-02 | 1.424571e-02 | 1.776969e-04 | -0.022073589 |
| ## 851 | -1.048744e-02 | 1.473435e-02 | 2.024654e-02 | -0.017086151 |
| ## 852 | 5.695938e-03 | -1.165556e-02 | 1.735130e-02 | 0.025600804 |
| ## 853 | 1.796614e-03 | -1.971750e-02 | 2.853641e-02 | 0.019967936 |
| ## 855 | -1.501532e-02 | 1.850421e-02 | 2.715426e-02 | -0.029653513 |
| ## 856 | 7.923170e-02 | 1.758125e-02 | -2.318208e-02 | 0.027088832 |
| ## 858 | 4.180462e-03 | 4.098620e-03 | -6.272718e-03 | 0.019181224 |
| ## 859 | -5.142922e-03 | -4.265962e-02 | -8.779638e-03 | 0.022906106 |
| ## 860 | -1.470150e-02 | 1.834319e-02 | 3.025948e-02 | -0.027874661 |
| ## 861 | -1.347265e-02 | 2.042205e-02 | 1.274099e-02 | 0.031385392 |
| ## 862 | -2.981458e-03 | -2.772230e-02 | 1.610606e-02 | -0.020623039 |
| ## 863 | -9.581640e-03 | -1.409026e-03 | -7.840432e-03 | -0.024271164 |
| ## 864 | -1.509420e-02 | 1.858446e-02 | -8.162662e-03 | -0.024954154 |
| ## 867 | -1.349896e-02 | 1.617463e-02 | 9.023511e-03 | -0.024139041 |

```

## 868 -2.616602e-03 -1.936690e-02 4.803711e-03 0.030876525
## 869 -1.270136e-02 -2.368138e-02 -1.599718e-02 0.032324842
## 870 -1.725742e-02 1.893173e-02 -1.354291e-02 0.019277429
## 871 -6.547903e-03 -2.156690e-02 2.494801e-02 0.017432853
## 872 -1.512966e-02 1.903977e-02 -2.645449e-02 0.025133048
## 874 -1.446692e-02 1.874900e-02 -3.860428e-02 -0.021177871
## 875 -1.411770e-02 1.905992e-02 -7.769434e-03 0.029056205
## 877 1.507461e-03 -1.335800e-02 -1.903154e-03 0.021467318
## 878 4.635862e-02 8.299508e-03 2.353049e-02 0.016072120
## 879 -1.150758e-02 1.443115e-02 2.124297e-02 0.018720907
## 880 5.361067e-02 -8.812896e-03 1.358735e-02 0.020074372
## 881 -3.878035e-03 -4.123620e-02 -2.529012e-03 0.029984410
## 882 2.221049e-03 4.292923e-03 -3.597683e-02 -0.020334650
## 883 1.734453e-02 1.070874e-02 1.491785e-02 -0.018907249
## 886 -1.469394e-02 1.942769e-02 -4.619293e-02 0.028228992
## 887 -2.763816e-03 -2.054828e-02 -7.414711e-03 0.031103821
## 888 -7.384326e-03 -4.377027e-02 3.525208e-02 0.029875248
## 889 2.137516e-03 -1.803999e-02 -1.616226e-02 -0.026916012
## 890 -5.288321e-03 -2.164943e-02 2.285701e-02 0.016825053
## 891 1.211689e-02 -1.378925e-02 -5.656693e-02 -0.020283257
## 893 3.610548e-03 7.513381e-03 -1.418791e-02 0.036172406
## 894 -6.557229e-03 -1.811713e-02 -2.138017e-02 0.015977388
## 896 -7.111528e-05 -1.408026e-02 4.324083e-03 0.017165843
## 897 -1.273342e-02 -4.761548e-02 8.883162e-03 -0.024649897
## 898 -1.345719e-02 2.201152e-02 -2.195506e-02 0.037550254
## 899 -3.231253e-03 -3.803656e-02 3.383922e-03 -0.025841024
## 900 -4.447584e-03 -4.299214e-02 3.363609e-02 -0.026049092
## 901 3.210391e-03 4.113453e-03 1.699920e-02 0.024035985
## 902 -1.496301e-02 1.889822e-02 2.469055e-02 -0.026672202
## 905 -1.781539e-02 1.848144e-02 -4.957111e-02 0.018403961
## 906 -1.561444e-02 1.821425e-02 -5.405575e-03 0.020919625
## 907 -1.454522e-02 1.966411e-02 -6.231500e-03 -0.021913091
## 908 -1.525038e-02 1.785452e-02 2.450083e-03 0.023839950
## 909 -1.304619e-02 2.237744e-02 -3.257202e-02 0.039837250
## 910 -1.444784e-02 1.999424e-02 4.214257e-03 -0.023737731
## 912 -1.486325e-02 1.800222e-02 6.479771e-03 -0.026982364
## 913 -1.748513e-02 2.071228e-02 3.739783e-02 0.017520243
## 915 -1.496743e-02 1.962461e-02 2.562478e-02 0.020661920
## 916 -2.750071e-03 -4.116403e-02 1.098341e-03 0.021339727
## 917 -1.601250e-02 1.869418e-02 -2.956221e-02 -0.030093947
## 918 -1.456765e-02 2.146328e-02 -3.618458e-03 0.031270225
## 919 -1.567723e-02 1.855227e-02 1.691090e-03 -0.030467473
## 920 -1.067851e-02 1.217209e-02 -4.772803e-05 0.012048021
## 921 -1.458286e-02 1.884274e-02 2.951941e-02 -0.026557403
## 924 -1.423274e-02 2.176146e-02 -1.952116e-02 -0.017737670
## 925 -1.775190e-02 2.209695e-02 2.954022e-02 -0.032639142
## 926 -1.437020e-02 1.903207e-02 3.126261e-02 0.025498577
## 927 -9.926934e-04 -3.922657e-02 1.567830e-02 -0.024683020
## 928 2.085639e-03 4.140642e-03 6.350138e-03 -0.015065676
## 929 -4.990768e-03 -4.389345e-02 -2.115539e-02 -0.021304153
## 931 -1.483974e-02 1.861405e-02 2.741371e-02 -0.027294903
## 932 -2.236380e-03 -2.074029e-02 7.544551e-03 -0.026364639
## 934 1.008992e-02 -5.538086e-02 -3.331339e-02 0.022528599
## 935 -4.687520e-04 6.038021e-03 -3.635083e-03 0.030054964

```

| | | | | |
|---------|---------------|---------------|---------------|--------------|
| ## 936 | 1.672015e-03 | -1.449413e-02 | 3.000968e-02 | 0.015918982 |
| ## 937 | -1.552482e-02 | 1.761019e-02 | 2.351058e-02 | 0.021207045 |
| ## 938 | 4.296361e-03 | -1.699766e-02 | 7.383201e-03 | 0.027266031 |
| ## 939 | -5.358650e-03 | -1.007019e-02 | 2.116907e-02 | 0.007240231 |
| ## 940 | -1.670318e-02 | 1.918174e-02 | 2.797314e-02 | 0.019282906 |
| ## 943 | 6.241065e-02 | 3.191152e-02 | 1.583003e-02 | 0.013557647 |
| ## 944 | -1.178028e-03 | -8.369668e-03 | 1.255216e-02 | -0.008823146 |
| ## 945 | -1.012664e-02 | -4.556283e-02 | -2.480546e-03 | 0.027653480 |
| ## 946 | -1.515503e-02 | 1.897071e-02 | 2.344001e-02 | 0.022855743 |
| ## 947 | -4.864287e-03 | -2.218943e-02 | 1.335508e-02 | 0.012405430 |
| ## 948 | -8.546255e-03 | -1.969592e-02 | 5.367172e-03 | -0.024080329 |
| ## 950 | -1.997304e-02 | 2.713341e-02 | 3.186985e-02 | -0.031703348 |
| ## 951 | 1.775767e-03 | 7.815732e-03 | -4.200087e-02 | -0.021765836 |
| ## 953 | -1.447810e-02 | 2.045419e-02 | -2.335898e-02 | -0.024343036 |
| ## 954 | -1.604725e-02 | 2.079700e-02 | -4.900629e-02 | -0.023419341 |
| ## 955 | -1.213177e-02 | 1.696220e-02 | 3.414887e-03 | 0.025440726 |
| ## 956 | -3.934989e-03 | -2.039756e-02 | -7.368230e-03 | 0.025304773 |
| ## 957 | 2.636870e-03 | -3.671316e-02 | -1.542375e-02 | 0.034866861 |
| ## 958 | 9.400734e-03 | -1.483039e-02 | -4.307495e-02 | 0.031947508 |
| ## 959 | -1.511992e-02 | 1.895549e-02 | -1.008619e-02 | -0.024051389 |
| ## 962 | -4.765046e-03 | -1.893305e-02 | -3.395441e-03 | -0.030257421 |
| ## 963 | -1.045190e-02 | -6.791193e-02 | -1.434950e-02 | -0.019415853 |
| ## 964 | -1.484447e-02 | 1.880679e-02 | 2.651858e-02 | -0.026820182 |
| ## 965 | -2.909047e-03 | -1.862717e-02 | 3.657916e-02 | 0.022537000 |
| ## 966 | -1.338028e-02 | -3.141434e-03 | -2.653979e-03 | 0.027065074 |
| ## 967 | -1.047673e-02 | 1.550812e-02 | 1.034784e-02 | -0.016947043 |
| ## 969 | -9.059212e-03 | -4.514371e-02 | -4.265021e-03 | -0.019726215 |
| ## 970 | 3.896836e-02 | -4.487790e-02 | 3.959430e-02 | -0.022287446 |
| ## 972 | -8.992224e-04 | -1.903598e-02 | -1.783899e-02 | 0.027849139 |
| ## 973 | 8.516151e-03 | -1.330038e-02 | 4.095474e-02 | 0.032907951 |
| ## 974 | -1.429466e-02 | 1.969022e-02 | 1.340728e-03 | -0.022051051 |
| ## 975 | 1.249127e-01 | 6.018161e-02 | -2.623800e-02 | 0.021271799 |
| ## 976 | 2.232416e-03 | 7.501998e-03 | -1.476583e-03 | 0.031250008 |
| ## 977 | 9.697126e-03 | -1.548951e-02 | -3.510227e-02 | 0.027133505 |
| ## 978 | -1.560424e-02 | 2.316104e-02 | -7.317820e-03 | -0.020954332 |
| ## 981 | -1.203368e-02 | -2.362661e-02 | -2.572548e-03 | 0.033709727 |
| ## 982 | -7.794590e-03 | -2.217104e-02 | 2.528133e-02 | -0.027594347 |
| ## 983 | -1.446042e-02 | 1.875479e-02 | 3.137943e-02 | 0.024751261 |
| ## 984 | -1.476133e-02 | 1.828992e-02 | 2.976904e-02 | 0.023399008 |
| ## 985 | -9.041163e-03 | 1.202069e-02 | -2.213445e-02 | -0.012817992 |
| ## 986 | -1.476394e-02 | 1.828761e-02 | -4.484471e-02 | 0.029295518 |
| ## 988 | 8.805805e-03 | -1.208038e-02 | 3.397486e-02 | 0.035182567 |
| ## 989 | -1.421254e-02 | 1.956637e-02 | 3.084239e-02 | -0.024517581 |
| ## 991 | -1.785895e-02 | 2.101683e-02 | 3.294435e-02 | 0.016057409 |
| ## 992 | -2.457052e-03 | -3.887174e-02 | 3.653532e-03 | -0.029712652 |
| ## 993 | -6.187984e-04 | -4.175141e-02 | 3.296741e-02 | 0.021233936 |
| ## 994 | -9.755491e-03 | 1.243997e-02 | -6.529584e-04 | -0.016125409 |
| ## 995 | -9.021066e-03 | -7.435700e-04 | -1.367516e-02 | 0.025205940 |
| ## 996 | -1.427010e-02 | 2.128779e-02 | 2.266363e-02 | 0.031157406 |
| ## 997 | -1.186730e-02 | 1.566650e-02 | 2.063801e-02 | -0.021695068 |
| ## 1000 | 3.280570e-03 | -3.957926e-02 | 6.803698e-03 | 0.029340262 |
| ## 1001 | -1.452599e-02 | 1.928730e-02 | 4.962772e-03 | 0.027872917 |
| ## 1002 | -4.036445e-03 | -1.602698e-02 | -5.387062e-03 | -0.020010355 |
| ## 1003 | -1.867597e-02 | 2.522716e-02 | 2.891325e-02 | 0.022884957 |

```

## 1004 1.046391e-01 3.208448e-02 -6.512616e-03 0.021783907
## 1005 -1.420658e-02 2.016256e-02 2.832226e-02 -0.023035538
## 1007 -1.549843e-02 1.858367e-02 -1.643586e-02 0.020851942
## 1008 -1.525363e-02 1.785163e-02 2.573356e-02 0.021985621
## 1010 2.388919e-03 3.441232e-03 -6.319189e-02 0.027981813
## 1011 -1.325320e-02 2.101135e-02 -1.514495e-02 -0.016239399
## 1012 6.943031e-02 1.413476e-02 -2.057148e-03 -0.022827598
## 1013 2.108711e-03 -3.793535e-02 -2.228436e-03 0.034871409
## 1014 -1.284327e-02 -4.751948e-02 1.172760e-02 -0.024867404
## 1015 -1.417352e-02 1.960111e-02 -1.079599e-02 0.030360874
## 1016 8.709035e-03 -3.454493e-02 -9.488827e-03 0.033504042
## 1019 -1.296425e-02 2.245039e-02 -1.325222e-02 -0.012848932
## 1020 -1.263308e-03 -1.696547e-02 1.109331e-02 -0.016081350
## 1021 -7.555495e-03 -4.506217e-02 3.052411e-02 -0.026395270
## 1022 -3.702181e-03 2.175970e-03 -1.456748e-02 -0.019139601
## 1023 -1.448441e-02 2.153739e-02 -2.158421e-02 -0.018460234
## 1024 -9.035707e-03 -1.941510e-02 9.421969e-03 -0.014686047
## 1026 -1.109614e-02 1.380557e-02 -2.757237e-02 -0.016889786
## 1027 6.253682e-02 -3.365464e-02 -1.448040e-02 0.026361731
## 1029 2.916841e-03 4.261871e-03 -1.012582e-02 -0.025323400
## 1030 -1.167257e-02 -2.142207e-02 2.402397e-02 0.023556674
## 1031 -1.519918e-02 1.809707e-02 -1.197267e-02 0.025582236
## 1032 -1.507469e-02 1.860183e-02 2.463145e-02 0.023964309
## 1033 -8.548239e-03 1.176395e-02 -1.099622e-03 -0.012752499
## 1034 -8.717962e-03 1.312232e-03 2.789937e-02 0.020072096
## 1035 -4.195867e-03 -4.206095e-02 2.608666e-02 -0.024764866
## 1038 -9.266650e-03 -1.798323e-02 2.166432e-02 0.015587120
## 1039 9.697157e-04 4.460984e-03 -3.022268e-02 -0.026132375
## 1040 -1.159928e-02 -2.327769e-03 2.976162e-02 -0.027075538
## 1041 8.424920e-03 -5.868020e-02 2.828276e-02 -0.027054470
## 1042 -7.792597e-03 -2.267041e-02 -3.596661e-02 0.030334523
## 1043 -1.460998e-02 2.230640e-02 -6.097543e-02 -0.017624555
## 1045 9.214362e-02 2.435740e-02 6.157515e-03 -0.025194713
## 1046 -2.837836e-03 3.291378e-03 -4.207423e-02 0.028242250
## 1048 -1.297804e-02 2.046848e-02 -1.878812e-02 0.034780788
## 1049 -1.426987e-02 1.892443e-02 -1.834091e-02 -0.022088138
## 1050 -1.136210e-03 -1.943552e-02 3.006153e-02 0.021567918
## 1051 -2.945430e-03 1.533415e-03 -5.707754e-03 -0.013619377
## 1052 -1.532281e-02 1.882133e-02 -1.056954e-02 -0.026488417
## 1053 2.754585e-03 6.517805e-03 -1.496477e-02 0.032413833
## 1054 -1.399748e-02 1.590981e-02 -6.217863e-03 0.015369982
## 1057 -1.485784e-02 1.918882e-02 2.469634e-02 -0.025881943
## 1058 -1.503914e-02 2.228541e-02 -2.000139e-02 -0.020905106
## 1059 -1.456504e-02 1.787379e-02 5.974913e-03 0.024711622
## 1060 -1.621176e-02 2.322470e-02 -4.207479e-02 -0.020209192
## 1061 -6.634131e-03 -1.861820e-02 -8.825950e-03 -0.019139276
## 1062 2.124669e-03 -1.728203e-02 2.222375e-02 -0.031828635
## 1064 5.480442e-03 -3.866246e-02 5.152690e-03 -0.026224071
## 1065 -5.382912e-03 -4.069568e-02 1.174125e-02 0.035229307
## 1067 5.335138e-04 5.816161e-03 -8.953080e-03 0.025607299
## 1068 -8.394103e-03 1.120445e-02 5.955093e-03 -0.014257348
## 1069 -1.342700e-02 1.671966e-02 -2.876865e-02 -0.025721373
## 1070 -1.536662e-02 1.986009e-02 -4.082283e-02 0.025777749
## 1071 -1.885778e-02 2.177445e-02 -2.768375e-02 0.025279523

```

```

## 1072 -5.530383e-03 -2.143516e-02 -3.700911e-02 -0.020732840
## 1073 -8.493433e-03 -6.730251e-02 -4.808876e-02 -0.016828700
## 1076 6.317185e-02 1.037178e-02 -8.842725e-05 0.026274278
## 1077 -5.092965e-04 7.047426e-03 2.946800e-02 -0.032859163
## 1078 -1.158531e-02 1.530271e-02 2.791138e-02 0.020348462
## 1079 2.631967e-03 6.778395e-03 -7.810910e-03 -0.021400021
## 1080 -1.349036e-02 2.198199e-02 2.905536e-02 -0.018049394
## 1081 -1.595000e-02 1.791549e-02 -3.494285e-03 -0.031858233
## 1083 -1.373325e-02 1.999308e-02 3.477125e-02 0.028303905
## 1084 -1.480285e-02 1.884385e-02 -1.043645e-02 -0.023748699
## 1086 -1.230420e-02 1.940094e-02 2.383762e-02 0.029084146
## 1087 -1.460617e-02 1.941288e-02 -1.053682e-02 -0.022207390
## 1088 -1.471516e-02 1.833103e-02 -2.113476e-02 0.027590556
## 1089 6.039917e-03 -3.795422e-02 -2.847340e-02 -0.017705250
## 1090 -1.276632e-02 1.669267e-02 -3.387377e-03 -0.020546351
## 1091 -7.558237e-03 -8.911206e-05 -2.375721e-02 -0.022304313
## 1092 5.386207e-02 2.745216e-02 1.714194e-02 0.012834624
## 1095 -1.556253e-02 1.757661e-02 2.320139e-02 -0.030346688
## 1096 -1.258461e-03 -2.884648e-02 -4.072823e-03 -0.012284298
## 1097 -1.442409e-02 1.843701e-02 3.274965e-02 0.022107307
## 1098 -1.137043e-02 1.579044e-02 -1.876137e-02 0.021090693
## 1099 -1.418671e-02 1.978633e-02 -4.905663e-02 0.033763312
## 1100 -2.958053e-03 1.903096e-03 -2.363421e-02 0.016829601
## 1102 -5.693838e-03 1.253441e-03 -4.251251e-02 -0.018099539
## 1103 4.992616e-02 2.550635e-02 3.085590e-02 0.021172450
## 1105 -1.053904e-02 -1.982094e-02 3.170695e-02 0.017548446
## 1106 -1.571459e-02 1.812508e-02 -1.564505e-03 0.020263095
## 1107 -1.012982e-02 -4.228491e-02 -4.148449e-02 -0.011425911
## 1108 -1.139950e-02 -2.338621e-02 -2.224526e-02 -0.016633537
## 1109 7.163233e-03 -1.377193e-02 -2.299133e-03 -0.020795262
## 1110 5.239403e-02 5.311932e-03 -2.468450e-02 -0.023567253
## 1111 6.288928e-02 1.022264e-02 -1.442460e-02 -0.024182057
## 1114 -1.498021e-02 1.848898e-02 -6.371945e-03 -0.025115204
## 1115 -8.917529e-03 -4.563167e-02 3.170401e-02 0.025493099
## 1116 -1.851576e-03 -4.161976e-02 4.588133e-02 0.030353400
## 1117 3.700689e-03 -3.804080e-02 -2.225770e-02 -0.026021808
## 1118 -1.434679e-02 1.905292e-02 -1.179664e-03 -0.023296659
## 1119 -1.501764e-02 1.884959e-02 2.424276e-02 -0.026829037
## 1121 -1.477932e-02 1.950216e-02 1.167737e-02 -0.025915734
## 1122 -1.524821e-02 1.908471e-02 2.181988e-02 -0.028368902
## 1124 -2.273885e-03 -6.417508e-02 3.127962e-02 -0.023616524
## 1125 -1.453969e-02 1.850750e-02 -1.419022e-02 -0.025498623
## 1126 1.864163e-03 3.901264e-03 -1.234912e-02 0.027371788
## 1127 -1.134486e-02 -2.026793e-03 -1.331877e-02 0.028080444
## 1128 1.098148e-02 -3.526020e-02 -3.463891e-02 -0.016383249
## 1129 -1.485718e-02 1.923588e-02 -5.803492e-02 -0.021092595
## 1130 5.965909e-03 -3.764573e-02 -2.186888e-02 -0.016597491
## 1133 4.611684e-02 -1.961741e-02 -1.885695e-02 0.029079734
## 1134 2.706378e-02 -4.779265e-02 2.544736e-02 0.028656089
## 1135 -1.409752e-02 2.096095e-02 -2.276600e-03 0.027286980
## 1136 -3.076064e-03 9.883905e-04 -3.119506e-02 -0.015276596
## 1137 4.455549e-04 -3.295338e-02 4.502483e-03 -0.012159524
## 1138 -1.658413e-02 2.071294e-02 -1.316166e-02 -0.027305096
## 1140 4.925476e-03 -1.683569e-02 9.560188e-03 -0.025437141

```

```

## 1141 -1.422623e-02 2.176725e-02 2.249039e-02 -0.021039987
## 1143 8.650053e-04 -4.005494e-02 -4.107676e-03 -0.018285724
## 1144 -4.101277e-03 2.705661e-03 3.188292e-02 0.029711940
## 1145 4.594141e-04 -1.327057e-02 -2.691232e-02 -0.014672432
## 1146 2.594573e-03 -6.010463e-02 -1.209377e-02 0.030702100
## 1147 -1.393355e-02 1.981475e-02 1.448123e-02 0.029204837
## 1148 -1.439835e-02 1.920398e-02 3.017557e-02 0.025906082
## 1149 -3.325693e-03 -4.142200e-02 -1.730871e-03 0.028088252
## 1152 -2.180567e-03 -3.108154e-02 2.337184e-02 -0.018716213
## 1153 -1.616461e-02 1.772443e-02 -9.915503e-03 -0.032105374
## 1154 3.434314e-02 -1.533214e-03 -5.013286e-02 -0.028702488
## 1155 -6.291313e-03 -1.737385e-02 6.332478e-04 0.018952969
## 1156 -1.333306e-02 2.003533e-02 2.177273e-02 -0.018867358
## 1157 -5.605676e-03 6.930058e-04 1.840271e-03 0.027273986
## 1159 -1.410687e-02 2.143311e-02 -2.261858e-02 -0.016129408
## 1160 3.588257e-03 -3.668460e-02 2.760918e-02 -0.018849335
## 1162 -1.678742e-02 1.954714e-02 -1.987055e-02 -0.029592318
## 1163 -1.236438e-02 -2.416759e-02 2.788055e-02 0.022587174
## 1164 -2.805322e-03 -4.142493e-02 -2.102756e-02 -0.016560407
## 1165 -1.524728e-02 2.067488e-02 -2.907059e-03 0.027272098
## 1166 -1.853431e-03 -4.207601e-02 3.279066e-02 0.024256801
## 1167 -1.510265e-02 1.857694e-02 -1.289399e-02 0.026836014
## 1168 -7.737772e-04 -3.825650e-02 -1.911780e-02 0.034010441
## 1171 9.323801e-02 4.666993e-02 -3.888433e-03 -0.024113478
## 1172 9.770658e-03 -1.380902e-02 1.384129e-03 0.018078344
## 1173 7.490025e-03 -3.651265e-02 3.794794e-02 -0.022392929
## 1174 -9.622227e-03 -2.415470e-02 3.562812e-02 -0.027171046
## 1175 1.912829e-02 -7.403701e-03 2.296823e-02 -0.021037719
## 1176 7.274676e-02 -7.545224e-03 -4.267630e-02 -0.018347130
## 1178 1.576275e-03 -4.100001e-02 3.657050e-02 -0.026023584
## 1179 -4.676490e-03 -1.854638e-02 3.094887e-02 -0.029178227
## 1181 -1.379901e-02 2.072239e-02 -4.844753e-02 0.036341336
## 1182 -1.321411e-02 2.025831e-02 7.248924e-03 0.031889043
## 1183 -9.799348e-03 1.334324e-02 1.952508e-02 -0.018988747
## 1184 -4.190853e-03 -4.308781e-02 1.985509e-02 -0.022171802
## 1185 -1.411546e-02 1.945584e-02 1.384640e-02 -0.023251180
## 1186 2.607242e-03 -1.139568e-02 -3.983236e-02 0.022783715
## 1187 7.822243e-03 -3.748307e-02 2.592813e-02 -0.030489343
## 1190 -1.389681e-02 2.162013e-02 -2.555874e-02 0.036288101
## 1191 -4.145652e-03 -2.988833e-02 1.714035e-02 -0.019511846
## 1192 -6.292916e-03 -2.193506e-02 3.008128e-02 0.025413881
## 1193 -1.108545e-03 -6.278004e-02 6.387059e-03 0.028935665
## 1194 -4.978727e-03 2.915046e-03 -9.609520e-03 0.014187236
## 1195 -4.200494e-03 -4.332555e-02 -1.725687e-02 -0.021167684
## 1197 -4.636503e-03 -2.158189e-02 3.140546e-02 0.024267625
## 1198 -4.633378e-03 -1.636801e-02 2.533683e-02 0.028257559
## 1200 -6.745119e-03 -2.523682e-02 -4.405486e-03 0.018623528
## 1201 -1.680853e-02 1.908794e-02 2.710954e-02 0.018980437
## 1202 7.997384e-02 -5.258014e-03 3.015296e-02 0.020823492
## 1203 -1.089334e-02 1.534999e-02 -1.234110e-02 -0.016030547
## 1204 -1.092835e-02 1.628665e-02 2.939353e-02 -0.018224520
## 1205 1.974543e-03 -2.987633e-02 2.405331e-02 0.022578220
## 1206 -9.454029e-03 1.291471e-02 1.775733e-02 -0.015851165
## 1209 -1.471696e-02 1.883767e-02 -3.502596e-03 -0.026075739

```

```

## 1210 -1.384312e-02 2.093884e-02 4.920539e-03 0.032280602
## 1211 -1.451072e-02 2.107356e-02 2.069120e-02 0.030466583
## 1212 -2.307294e-04 -1.831778e-02 -4.260661e-02 -0.019475130
## 1213 -1.479133e-02 1.905107e-02 -2.052236e-02 0.028956138
## 1214 -9.832482e-03 -4.396845e-02 4.827954e-03 -0.021729885
## 1216 6.807154e-02 1.857735e-02 1.941732e-02 -0.016363014
## 1217 -1.367454e-02 1.984839e-02 -2.449750e-02 -0.018664305
## 1219 1.613949e-04 2.586963e-03 1.947234e-02 -0.028490267
## 1220 -6.135055e-03 -1.417162e-04 2.789060e-02 -0.028441950
## 1221 -1.503790e-02 1.824065e-02 -1.065061e-02 -0.025400166
## 1222 5.801331e-02 2.910957e-02 1.969645e-02 0.011846617
## 1223 -1.618677e-02 -2.268429e-02 7.979547e-03 -0.029384820
## 1224 -1.459467e-02 2.187963e-02 -1.369682e-02 -0.020392684
## 1225 -1.556437e-02 1.821234e-02 3.149072e-03 -0.029265551
## 1228 -1.612761e-02 1.859170e-02 1.611448e-02 0.017331033
## 1229 -1.439693e-02 1.984260e-02 -3.836175e-03 0.028103550
## 1230 1.974281e-03 -1.755693e-02 2.263375e-02 0.021244641
## 1231 1.255184e-02 -1.282117e-02 9.480085e-03 0.029855830
## 1232 -3.804056e-03 -1.821534e-02 -3.116099e-02 0.031407782
## 1233 -1.483956e-02 1.841724e-02 -4.362663e-03 0.026245738
## 1235 -4.748385e-03 -6.466409e-02 2.649919e-02 0.020270748
## 1236 -1.524369e-02 1.766351e-02 2.667134e-02 0.021525837
## 1238 -9.084163e-03 -2.348761e-02 -2.296649e-03 0.021588061
## 1239 2.282046e-03 4.729047e-03 -4.187399e-03 -0.027400056
## 1240 -8.999325e-03 -1.020960e-03 -2.799170e-02 0.022087279
## 1241 -1.419035e-02 1.879827e-02 2.046348e-02 0.026145308
## 1242 2.724645e-03 -3.977530e-02 -1.498856e-02 -0.024430028
## 1243 -4.454815e-03 -1.849950e-02 -3.193142e-02 -0.013073559
## 1244 -1.522544e-02 1.915146e-02 2.318635e-02 -0.030158050
## 1247 -2.655162e-03 -2.010666e-02 2.876835e-02 0.021128337
## 1248 2.752451e-02 -6.465027e-03 7.671266e-03 -0.026548615
## 1249 8.772491e-04 3.066425e-03 2.699716e-02 0.022358869
## 1250 7.759187e-02 1.925049e-02 -5.433660e-02 0.024792137
## 1251 -7.176791e-03 -4.389492e-02 -6.282233e-03 -0.020116837
## 1252 -4.946854e-04 -1.651666e-02 -2.908469e-02 0.039297723
## 1254 -1.465700e-02 1.877674e-02 5.601557e-03 0.026520184
## 1255 -1.253604e-03 -5.818436e-02 4.092411e-03 -0.019829557
## 1257 -1.527444e-02 1.807129e-02 -4.262446e-03 -0.027787493
## 1258 -3.358731e-03 2.353989e-03 2.780377e-02 -0.024767202
## 1259 -3.061224e-03 -3.819463e-02 -1.053611e-02 -0.024281630
## 1260 -1.241074e-02 1.484258e-02 -1.855383e-02 -0.020789914
## 1261 -1.510832e-02 1.837492e-02 2.521206e-02 -0.028066011
## 1262 -1.793399e-03 -3.960042e-02 2.848082e-02 0.033699537
## 1263 4.655897e-02 -9.764449e-03 -1.754108e-03 -0.019955326
## 1266 9.538960e-03 -1.211090e-02 -2.907474e-02 -0.014354977
## 1267 -1.451072e-02 2.107356e-02 -2.126704e-02 0.033787571
## 1268 -1.423046e-02 1.994434e-02 -2.229946e-02 -0.019533425
## 1269 -5.295650e-03 -3.721391e-02 -1.634440e-02 -0.012557391
## 1270 -1.154266e-02 -2.451002e-02 -3.539313e-05 -0.030234258
## 1271 3.604759e-03 -8.101919e-02 -3.586100e-02 0.034549941
## 1273 -1.471524e-02 2.215652e-02 1.497356e-02 0.025414843
## 1274 -1.518159e-02 1.953795e-02 -3.062895e-02 0.028303416
## 1276 8.887528e-03 6.720988e-03 -3.471333e-02 0.027831370
## 1277 4.959537e-02 5.641561e-03 -6.788858e-02 -0.015098424

```

```

## 1278 5.826569e-02 8.950282e-03 -1.013168e-02 0.016218127
## 1279 6.713716e-04 5.958996e-03 -8.564739e-03 0.034187237
## 1280 3.716541e-03 -1.720343e-02 -3.341881e-02 0.033451673
## 1281 -1.510843e-02 1.778394e-02 2.778016e-02 0.021914191
## 1282 -1.884897e-03 4.839502e-03 -1.664678e-02 0.035413600
## 1285 -1.596459e-02 2.003626e-02 1.452311e-02 -0.028077737
## 1286 -1.481120e-02 1.942731e-02 2.422235e-02 0.026185720
## 1287 3.775077e-02 -2.101719e-02 -3.742566e-03 -0.013784304
## 1288 5.367335e-05 -6.044419e-02 3.147737e-02 -0.017170049
## 1289 -1.165974e-02 1.461539e-02 -4.137847e-03 0.020983339
## 1290 4.207123e-02 2.188449e-02 2.654439e-02 -0.030848331
## 1292 6.849502e-02 3.857318e-02 -1.259201e-02 -0.022084978
## 1293 5.882963e-02 -1.154268e-02 -9.315527e-03 -0.016164975
## 1295 -1.455590e-02 1.930715e-02 1.235409e-03 0.026301533
## 1296 1.970968e-03 -1.812655e-02 -1.699309e-02 0.032449111
## 1297 -1.541502e-02 -4.513284e-02 3.596694e-02 0.018501751
## 1298 -1.494823e-02 1.915482e-02 -7.498953e-03 0.026032468
## 1299 -1.514196e-02 1.814802e-02 -5.812381e-02 -0.022008914
## 1300 -1.211684e-03 3.749161e-03 2.307127e-02 0.012953386
## 1301 4.814071e-03 4.741604e-03 -1.979212e-02 -0.023650972
## 1304 -4.419001e-03 4.599465e-03 -3.500395e-02 -0.020499370
## 1305 -6.034333e-03 -4.238722e-02 -9.796118e-03 0.025397761
## 1306 7.790868e-03 -1.468751e-02 1.130402e-02 -0.017616806
## 1307 -1.492503e-02 1.794722e-02 -3.132287e-02 0.027237693
## 1308 -1.469963e-02 1.913271e-02 8.201452e-03 0.027005405
## 1309 1.709418e-03 -8.187552e-02 4.287007e-02 0.039195866
## 1311 -9.439311e-03 -6.660011e-02 6.563799e-03 -0.017742126
## 1312 -1.104307e-02 -1.529468e-03 1.221699e-02 0.027804648
## 1314 -1.748972e-03 2.353557e-03 8.744229e-03 0.025606553
## 1315 -1.408286e-02 2.233529e-02 -1.416344e-02 0.032891155
## 1316 4.204857e-02 -2.167489e-02 -2.191189e-02 -0.024410671
## 1317 -1.596762e-02 1.878061e-02 -1.869045e-02 0.018887830
## 1318 -1.495176e-02 2.244252e-02 1.494456e-02 0.025688771
## 1319 -1.512363e-02 1.880170e-02 5.905600e-03 -0.027511874
## 1320 7.723523e-03 -1.580928e-02 -4.166343e-02 0.023478650
## 1323 -5.267131e-03 6.522580e-04 2.709727e-03 -0.025884553
## 1324 -5.609313e-03 -1.792164e-02 9.979435e-03 0.021767132
## 1325 1.309720e-02 -3.417336e-02 4.680957e-03 -0.017440558
## 1326 -1.563732e-02 1.786689e-02 -8.621398e-03 0.015818314
## 1327 -1.525251e-02 1.804959e-02 2.488641e-02 -0.028968295
## 1328 -6.081019e-03 -4.032770e-02 -3.931621e-02 -0.017091116
## 1330 -1.536306e-02 1.799765e-02 2.516004e-02 0.020305244
## 1331 -3.440128e-04 3.708169e-03 1.011648e-02 0.018956554
## 1333 2.140103e-03 -3.964627e-02 3.435662e-02 0.028581482
## 1334 -6.227955e-03 3.929780e-04 2.494973e-02 0.024147745
## 1335 8.242586e-02 -4.742623e-04 -2.032665e-02 -0.019189952
## 1336 -7.630329e-03 -2.260196e-02 -3.173874e-03 -0.025911769
## 1337 6.598051e-03 -1.363515e-02 -8.871570e-03 -0.017237666
## 1338 -1.407449e-02 1.949231e-02 1.961644e-04 -0.022026557
## 1339 -1.145734e-02 -2.432588e-02 2.073840e-02 0.028692507
## 1342 -1.070634e-03 -4.124388e-02 1.854241e-02 0.026836496
## 1343 8.109744e-03 -3.659771e-02 -3.008955e-02 -0.017958133
## 1344 -9.966599e-03 1.621297e-02 8.835867e-03 -0.014214443
## 1345 -1.454396e-02 2.059251e-02 -4.340331e-02 -0.022567826

```

```

## 1346 -5.474362e-03 -2.025522e-02 -1.384524e-02 -0.026713542
## 1347 -1.230373e-02 6.438747e-05 3.185070e-02 -0.027475141
## 1349 -1.075164e-02 1.403333e-02 1.672574e-02 -0.019447086
## 1350 -1.451486e-02 1.850936e-02 -1.016879e-02 0.027427623
## 1352 -1.330399e-02 1.718390e-02 1.109466e-02 -0.022524979
## 1353 -6.624440e-03 2.638463e-03 2.169768e-02 -0.028189226
## 1354 5.988691e-03 5.507712e-03 3.304308e-02 0.023599908
## 1355 -1.457516e-02 2.189700e-02 1.909729e-02 0.028525779
## 1356 1.019888e-01 5.355542e-02 2.061098e-02 -0.044124185
## 1357 -5.354276e-03 -8.899479e-04 1.299879e-02 0.009984148
## 1358 -1.486723e-02 1.878653e-02 2.633200e-02 -0.026885530
## 1361 -1.045426e-02 -4.186571e-02 4.065656e-02 0.022428623
## 1362 -1.426152e-02 1.834098e-02 7.606624e-03 0.026071343
## 1363 1.290390e-02 -3.203519e-02 2.503208e-02 -0.020631714
## 1364 -1.438636e-02 1.960858e-02 -1.805903e-02 -0.020838316
## 1365 1.000655e-02 -5.549687e-02 -2.153473e-04 0.023587638
## 1366 -4.484596e-04 -1.917380e-02 -3.412934e-02 -0.021830489
## 1368 4.955324e-02 -3.847489e-02 4.411989e-03 0.027720128
## 1369 -1.397662e-02 -2.512353e-02 2.386752e-02 0.021203777
## 1371 -1.434621e-02 1.988777e-02 1.241661e-03 -0.023565257
## 1372 -9.978096e-03 -2.199395e-02 -3.603244e-02 0.037109152
## 1373 4.758275e-02 2.584425e-02 -1.100031e-02 -0.027892001
## 1374 7.433090e-03 -5.643513e-02 3.382622e-02 0.034268278
## 1375 -6.121360e-03 6.341285e-04 -1.335243e-02 0.029978673
## 1376 -1.176367e-02 1.512260e-02 -2.680256e-02 0.023998573
## 1377 2.205413e-02 1.386049e-02 1.397233e-02 0.005149724
## 1380 -7.095892e-03 -4.254925e-02 1.083193e-02 -0.028284827
## 1381 5.155177e-03 -3.885755e-02 -2.398463e-02 -0.020921237
## 1382 2.650526e-03 -1.783516e-02 3.388974e-02 -0.025655065
## 1383 -1.111328e-02 1.426800e-02 -1.820346e-02 -0.017484118
## 1384 8.049748e-02 2.017322e-03 6.960531e-03 0.015658395
## 1385 -1.044529e-02 1.314157e-02 -5.718506e-03 -0.017377854
## 1387 5.173277e-02 6.268804e-03 -3.703318e-02 -0.022459509
## 1388 -1.185286e-02 1.208764e-03 1.753638e-02 0.027065985
## 1390 -3.715975e-03 -1.955360e-02 -1.168902e-02 0.028160659
## 1391 -4.513334e-03 -1.720619e-02 3.730208e-02 -0.031352656
## 1392 -8.524588e-03 1.057581e-02 1.622172e-02 0.013584734
## 1393 6.509490e-02 3.462499e-02 -5.464402e-02 -0.017375728
## 1394 1.401043e-02 9.677284e-03 -2.815772e-02 0.030832499
## 1395 -1.481531e-02 1.824187e-02 2.932658e-02 0.023244039
## 1396 -1.431261e-02 1.868942e-02 -8.510887e-03 0.028008287
## 1399 1.172751e-02 -9.774452e-03 -1.757663e-02 0.029749170
## 1400 -7.030012e-03 -2.217839e-02 -9.993289e-03 0.029413661
## 1401 -1.397163e-02 -1.149665e-03 5.280370e-03 0.019367032
## 1402 -1.276632e-02 2.026305e-02 4.526638e-02 0.029615028
## 1403 -1.681768e-02 2.248828e-02 -4.618537e-02 -0.022437110
## 1404 -1.522063e-02 1.847788e-02 -3.505522e-02 -0.026857926
## 1406 -1.671087e-02 1.981226e-02 2.652095e-02 -0.032574198
## 1407 -1.223129e-02 -3.648075e-04 -1.377772e-02 0.020664151
## 1409 3.730959e-04 -1.895453e-02 2.366811e-02 -0.029904777
## 1410 -9.142029e-03 -1.877817e-03 3.045932e-02 0.022196651
## 1411 -5.807769e-03 -4.285874e-02 -2.182652e-02 0.033439706
## 1412 -1.484361e-02 1.689962e-02 -1.055721e-02 0.021146780
## 1413 -1.458629e-02 1.903665e-02 -2.730937e-02 -0.021650963

```

```

## 1414 -9.878487e-03 -4.523367e-02 -3.343736e-03 -0.018594894
## 1415 -1.403250e-02 1.913576e-02 2.252965e-03 -0.022882645
## 1418 4.595703e-02 6.736705e-03 -5.345388e-03 -0.026667529
## 1419 9.507898e-03 7.503031e-03 2.613883e-02 -0.027978762
## 1420 3.811506e-02 2.071572e-02 2.537746e-02 -0.028811013
## 1421 -1.516195e-02 2.023928e-02 1.128088e-02 0.022794688
## 1422 -1.495893e-02 1.870489e-02 -6.299815e-02 -0.020137815
## 1423 8.072176e-03 7.796246e-03 -5.298114e-02 0.030705957
## 1425 -1.569926e-02 2.027249e-02 -1.949998e-03 0.025605472
## 1426 -7.067531e-03 3.012303e-03 4.026582e-03 -0.017381505
## 1428 1.119913e-02 7.919945e-03 1.905280e-02 -0.028065446
## 1429 -8.175457e-03 -4.391433e-02 1.686189e-02 -0.026184009
## 1430 5.424058e-03 4.434918e-03 1.762308e-02 -0.012275417
## 1431 -2.560364e-04 -6.369126e-02 -5.398630e-03 -0.022066957
## 1432 -1.345762e-02 1.964759e-02 2.303440e-03 -0.020863139
## 1433 1.108513e-02 -2.712477e-02 3.080254e-02 -0.018634642
## 1434 -1.585332e-02 2.293929e-02 -4.697522e-03 0.029407015
## 1437 -1.165336e-03 -4.245453e-02 9.719491e-03 0.026072211
## 1438 5.648538e-02 1.047423e-02 2.895105e-02 0.038510439
## 1439 -1.490935e-03 -1.895347e-02 2.704969e-03 -0.020108463
## 1440 -1.062374e-02 1.320921e-02 -2.838017e-02 -0.015661095
## 1441 -1.472380e-02 1.852030e-02 -1.273782e-02 0.027316077
## 1442 -1.534988e-02 1.776594e-02 1.634458e-03 0.023554285
## 1444 -3.618176e-03 -4.298553e-02 -1.062096e-02 0.023606721
## 1445 4.601905e-06 3.111162e-03 -4.272587e-02 0.022753025
## 1447 8.865566e-02 4.425086e-02 -4.689694e-02 -0.021862846
## 1448 -7.794130e-03 -2.204708e-02 2.765678e-02 -0.026756668
## 1449 -1.630312e-02 1.764759e-02 -2.385718e-02 0.018194877
## 1450 -1.441843e-02 1.839824e-02 -8.522010e-03 0.027216161
## 1451 -9.696441e-03 1.206736e-02 -6.791820e-03 0.017500453
## 1452 -1.459142e-02 1.824423e-02 -2.858813e-02 0.028195510
## 1453 -1.501616e-02 1.865394e-02 2.511123e-02 0.024132347
## 1456 3.963464e-04 4.662279e-03 -1.193622e-02 0.027746909
## 1457 5.348775e-02 2.778704e-02 1.055248e-03 -0.025180379
## 1458 -1.802736e-03 -4.170246e-02 1.125036e-02 0.031008528
## 1459 -7.477198e-03 -1.910143e-02 -1.593457e-02 -0.016804936
## 1460 -1.553813e-02 1.951044e-02 -8.738186e-03 -0.029231385
## 1461 -2.951967e-03 -1.232143e-02 3.547741e-03 -0.012492629
## 1463 -1.348131e-02 1.939633e-02 -3.584930e-02 -0.015093389
## 1464 -5.295924e-03 2.650605e-03 -6.012572e-02 0.028064336
## 1466 1.424838e-03 3.424053e-03 1.020443e-03 0.025265750
## 1467 -1.508873e-02 1.760451e-02 2.879790e-02 0.021482413
## 1468 -8.593814e-03 -4.128389e-02 3.991845e-02 -0.030104059
## 1469 4.074149e-04 -1.795025e-02 2.437969e-02 0.022681504
## 1470 1.198881e-02 -1.226107e-02 -2.966681e-02 -0.027184117
## 1471 -1.020134e-02 1.186084e-02 -1.905840e-02 0.014888730
## 1472 -8.965244e-03 -1.671972e-02 -3.790726e-03 -0.022248906
## 1475 -1.396063e-03 -9.706370e-03 5.652836e-03 0.014050820
## 1476 -1.446149e-02 1.818381e-02 2.349259e-02 0.023772640
## 1477 2.218042e-03 -2.642800e-02 1.669612e-02 -0.015033678
## 1478 -6.719661e-04 -1.788267e-02 3.469961e-02 -0.020562258
## 1479 3.868794e-03 -3.812509e-02 3.021111e-02 -0.025739908
## 1480 -1.365987e-02 1.946752e-02 -4.016492e-03 -0.021074805
## 1482 7.578582e-03 7.318744e-03 -3.012317e-02 -0.020031173

```

```

## 1483 -1.418031e-02 1.920114e-02 1.850420e-04 0.028626757
## 1485 -1.435935e-03 6.376090e-03 2.974619e-02 0.015641777
## 1486 6.839521e-03 -3.386647e-02 -3.507353e-02 -0.011350318
## 1487 -1.414257e-02 1.791441e-02 2.929877e-02 0.015245299
## 1488 -1.405685e-02 1.872016e-02 8.428041e-03 -0.024298174
## 1489 -7.103306e-03 -8.616058e-02 -5.709069e-02 0.026705952
## 1490 -1.690253e-02 1.944465e-02 -6.828034e-03 -0.031029789
## 1491 -1.446089e-02 1.855741e-02 3.223191e-02 -0.027183838
## 1494 -9.264642e-03 -6.826691e-02 -3.898312e-03 0.030950006
## 1495 -1.662030e-02 1.964945e-02 -2.434242e-02 -0.026888981
## 1496 -1.561356e-02 1.948976e-02 1.979547e-02 0.017928986
## 1497 -6.834721e-03 -2.153297e-02 -2.723807e-02 -0.019706927
## 1498 -2.797001e-03 2.684592e-03 -1.749050e-02 0.032047506
## 1499 -1.175419e-02 -2.325894e-02 1.139863e-02 0.030936767
## 1501 5.542111e-02 5.896940e-03 2.945792e-02 0.021607000
## 1502 -1.458109e-02 1.904128e-02 2.867759e-02 0.025381430
## 1504 -1.033027e-02 1.381986e-02 -1.544470e-02 -0.017482992
## 1505 -1.862308e-02 2.033652e-02 -1.061565e-02 0.016815569
## 1506 -3.527878e-03 -2.849828e-02 2.127596e-02 0.014963394
## 1507 5.330616e-03 7.837673e-03 -3.485392e-03 -0.016735251
## 1508 -1.217597e-03 -6.277890e-02 -2.986748e-02 0.029811653
## 1509 4.496843e-03 -1.709528e-02 1.393877e-02 0.017513322
## 1510 -1.257668e-02 1.695870e-02 -3.721531e-02 -0.017340077
## 1513 -1.199403e-02 -2.424549e-02 -2.182244e-04 -0.028709258
## 1514 1.790143e-04 3.338215e-03 1.176791e-03 -0.024519425
## 1515 6.789629e-02 -9.207633e-03 -5.000331e-02 -0.017674214
## 1516 1.220475e-02 -3.570297e-02 3.910030e-02 0.026894812
## 1517 5.448299e-02 -3.115989e-02 4.599696e-03 -0.020671801
## 1518 -1.359158e-02 1.952832e-02 3.850149e-02 -0.024199749
## 1520 -6.148437e-03 -3.071286e-02 -2.184285e-02 -0.014096206
## 1521 -8.647188e-03 -2.352843e-02 -7.591053e-03 0.026699051
## 1523 -1.186092e-02 -2.422470e-02 -1.558920e-02 -0.022329364
## 1524 -1.466137e-02 1.857589e-02 2.973218e-02 -0.027271111
## 1525 -7.784865e-03 -2.178063e-02 -2.079504e-04 -0.021444110
## 1526 8.426923e-02 4.362784e-02 -4.207133e-02 0.023033344
## 1527 -1.640048e-02 1.989163e-02 2.992159e-02 -0.032171387
## 1528 -1.040896e-02 1.264689e-02 1.566172e-02 0.012290958
## 1529 -1.058662e-02 -1.913404e-02 7.203957e-03 0.029965214
## 1532 -3.295723e-03 -4.050758e-02 -2.707493e-03 -0.022225444
## 1533 -1.685831e-02 1.948403e-02 2.616865e-02 0.017959624
## 1534 -1.049229e-02 1.249541e-02 6.186299e-03 0.015155366
## 1535 -1.538788e-02 1.733818e-02 2.634569e-02 0.020623552
## 1536 -5.484376e-03 -2.540365e-02 1.758304e-02 -0.014211699
## 1537 -5.596326e-03 -4.294985e-02 3.973786e-02 -0.020813836
## 1539 -1.397239e-02 1.958321e-02 -1.295297e-02 -0.020626428
## 1540 1.781768e-02 -1.036542e-02 -1.346647e-02 -0.022165668
## 1542 5.149129e-04 4.056538e-03 -6.619957e-03 -0.021668874
## 1543 -1.108886e-02 1.642938e-02 -1.312974e-02 0.024842827
## 1544 -1.423725e-02 1.954437e-02 2.667658e-03 0.029070903
## 1545 3.580996e-03 4.924210e-03 2.198622e-02 -0.031009185
## 1546 -1.398399e-02 2.016377e-02 3.031079e-03 -0.020670792
## 1547 -7.852445e-03 -4.416642e-02 8.813043e-03 -0.024312687
## 1548 -1.058882e-02 -4.490399e-02 1.406299e-02 0.032098909
## 1551 5.096212e-03 6.044845e-03 -2.320300e-02 -0.020345219

```

```

## 1552 -9.018918e-03 1.153696e-02 -7.140991e-03 0.013843177
## 1553 -1.000491e-02 -1.853173e-02 9.483018e-03 -0.022579516
## 1554 -1.502385e-02 1.928446e-02 2.365904e-02 -0.027724756
## 1555 -2.557067e-03 -6.524621e-02 -6.148015e-02 0.033445598
## 1556 -1.467911e-02 1.875705e-02 -2.255185e-02 -0.022774746
## 1558 -1.306630e-02 2.406376e-03 -1.221188e-02 0.017583707
## 1559 -1.788726e-02 2.395971e-02 4.394174e-02 -0.031179212
## 1561 -5.187247e-03 -1.955588e-02 1.277551e-02 -0.020237912
## 1562 -1.479010e-02 1.984001e-02 4.034543e-03 0.028698909
## 1563 -1.348011e-02 8.361380e-04 3.021763e-02 -0.033129485
## 1564 -1.269576e-02 1.489795e-02 -4.046609e-02 0.020003819
## 1565 4.768945e-03 -1.302477e-02 -6.645515e-03 -0.031186704
## 1566 8.106389e-02 2.240355e-02 1.741930e-02 -0.026285064
## 1567 -9.069178e-03 -2.265008e-02 -5.601621e-03 -0.017207118
## 1570 5.026959e-03 -3.857826e-02 2.541274e-02 -0.032096294
## 1571 -1.497944e-02 1.912703e-02 -3.092809e-03 0.025573849
## 1572 -1.447176e-02 1.835077e-02 -3.226927e-02 0.028908053
## 1573 -1.367997e-02 1.627188e-02 3.847086e-03 -0.023304295
## 1574 -1.454184e-02 1.815995e-02 3.703418e-03 0.025300329
## 1575 -1.439864e-02 1.880980e-02 -5.669264e-02 -0.019505832
## 1577 -1.037073e-02 -4.182349e-02 3.512063e-02 -0.017305372
## 1578 -7.441870e-03 -4.521078e-02 -5.997903e-03 -0.023962792
## 1580 -1.601733e-02 2.082364e-02 3.049338e-02 -0.029606432
## 1581 -4.681518e-03 1.106136e-03 -1.516752e-02 -0.008807668
## 1582 -3.721692e-03 -3.356544e-02 -3.083978e-02 -0.021732623
## 1583 -9.934466e-03 1.236081e-02 1.788206e-02 0.015957070
## 1584 -8.875993e-03 -2.332291e-02 7.737540e-03 0.026860283
## 1585 3.939301e-03 -1.178259e-02 1.352037e-02 -0.024872433
## 1586 3.011626e-03 3.558567e-03 -3.335571e-02 0.021381584
## 1589 6.984748e-02 1.837519e-02 2.369745e-02 -0.020454858
## 1590 -1.448305e-02 1.941848e-02 -2.495981e-02 0.026870143
## 1591 -1.394459e-02 1.985140e-02 -1.240167e-02 -0.021912849
## 1592 -1.167619e-02 -2.378464e-03 -3.763317e-03 -0.031727802
## 1593 -1.530218e-02 1.908314e-02 2.255730e-02 -0.030378366
## 1594 -6.835095e-03 -1.294802e-02 2.780487e-03 -0.014276180
## 1596 -5.724108e-03 -2.209715e-02 -2.009609e-02 0.028270725
## 1597 -1.161111e-02 1.457070e-02 5.591084e-03 -0.019899169
## 1599 -1.409685e-02 2.050370e-02 1.089715e-02 0.028834731
## 1600 -1.408086e-02 2.145627e-02 -8.419270e-03 -0.017161721
## 1601 -1.513202e-02 1.795990e-02 -5.903749e-03 0.024917757
## 1602 -6.523875e-03 -2.075396e-02 -5.106982e-02 -0.027208928
## 1603 -1.310829e-02 2.054949e-02 3.989423e-02 -0.021347263
## 1604 -1.465930e-02 1.921509e-02 2.835996e-02 -0.027654767
## 1605 -6.547840e-03 1.117238e-03 4.425236e-03 -0.019647701
## 1608 -5.696596e-04 -6.332887e-02 2.830655e-02 -0.028449406
## 1609 -9.129758e-03 -4.543728e-02 3.732259e-02 0.027478640
## 1610 2.567219e-02 -4.935367e-03 -5.229496e-02 -0.024477702
## 1611 3.469302e-02 1.859852e-02 2.963713e-02 -0.028479433
## 1612 -1.351551e-02 -2.606530e-03 2.753916e-02 0.025994796
## 1613 9.521329e-02 5.154405e-02 2.805278e-02 -0.036724910
## 1615 5.321915e-02 6.025414e-03 -4.340136e-03 -0.022448297
## 1616 -1.497937e-02 1.829276e-02 1.780133e-02 0.023999321
## 1618 -1.497156e-02 2.198449e-02 -7.995085e-03 0.028354800
## 1619 -2.106192e-03 -1.470993e-02 1.637702e-02 0.013999480

```

```

## 1620 -1.493887e-02 1.813186e-02 5.003577e-03 0.024734286
## 1621 -1.570818e-02 2.006758e-02 3.612939e-02 0.022139552
## 1622 -1.488479e-02 1.877090e-02 -4.840435e-02 0.030413478
## 1623 3.640106e-02 -2.350787e-02 1.612006e-02 -0.017459485
## 1624 2.139899e-03 -3.370626e-02 2.851829e-02 -0.021753292
## 1627 -1.493533e-02 1.852893e-02 2.663007e-02 0.023876076
## 1628 -1.122837e-02 1.322477e-02 -2.090670e-02 0.019594977
## 1629 -1.532795e-02 1.798243e-02 9.578962e-04 0.024105557
## 1630 -1.098937e-02 -2.123256e-02 3.432019e-02 0.035694443
## 1631 -1.467640e-02 1.935035e-02 -4.840876e-02 -0.019457046
## 1632 -1.431297e-02 1.908302e-02 3.759568e-03 -0.023568569
## 1634 -5.627383e-03 -2.285748e-02 6.332405e-03 0.023139593
## 1635 6.995780e-02 2.102274e-02 2.986788e-03 -0.028028833
## 1637 -4.643591e-03 -6.454235e-02 -1.991676e-02 0.035558513
## 1638 -4.832985e-04 -6.185747e-02 9.889260e-03 -0.027279284
## 1639 -8.149041e-03 1.080094e-02 1.631456e-02 -0.015319780
## 1640 6.670523e-03 -1.652716e-02 -9.408850e-03 -0.025689290
## 1641 -1.035170e-04 -1.895963e-02 4.210638e-03 -0.024421199
## 1642 1.320951e-03 -1.503511e-02 -4.517004e-02 0.025443479
## 1643 -1.463821e-02 1.958132e-02 -1.631787e-02 -0.021442088
## 1646 5.619242e-03 -1.642238e-02 -7.348523e-03 -0.022138686
## 1647 -1.501290e-02 1.865684e-02 1.115180e-02 0.025248679
## 1648 -4.805575e-03 -6.500868e-02 4.945773e-04 0.033126925
## 1649 -5.023119e-03 -2.170855e-02 -4.884178e-03 0.027582196
## 1650 -5.349691e-03 -2.162175e-02 -2.891799e-04 0.027986285
## 1651 -6.7774630e-03 -2.019054e-02 1.299647e-02 -0.026293095
## 1653 5.687115e-03 -1.368475e-02 7.600487e-03 0.036008431
## 1654 -4.596613e-03 -3.742575e-02 -3.966600e-03 -0.024259730
## 1656 -1.523790e-02 2.218777e-02 -1.071116e-02 -0.024733196
## 1657 8.814167e-04 -4.022251e-02 -3.080519e-02 0.035032591
## 1658 -1.090724e-02 -2.086684e-02 2.263693e-02 0.030192800
## 1659 9.755045e-02 4.914020e-02 2.856659e-02 0.024958641
## 1660 -1.944536e-02 2.178468e-02 -7.363383e-03 0.017160641
## 1661 -1.456875e-03 -1.978806e-02 3.180949e-04 -0.024544465
## 1662 8.230296e-02 4.160903e-02 -2.179433e-02 0.021075800
## 1665 2.221658e-03 -1.685572e-02 1.087313e-02 0.024300898
## 1666 -5.800330e-03 -1.736451e-04 -3.183726e-02 0.029567505
## 1667 4.264846e-03 -4.149239e-02 3.570352e-03 -0.017548600
## 1668 7.223874e-02 -6.338367e-03 -2.288999e-02 -0.030452180
## 1669 2.355350e-03 -1.756507e-02 -8.307959e-03 0.017862778
## 1670 -1.249856e-02 -1.353099e-03 -2.643649e-02 -0.024789319
## 1672 -1.387632e-02 1.986570e-02 3.359846e-02 -0.023552295
## 1673 -1.225579e-02 -4.832512e-04 -2.984454e-02 -0.029184827
## 1675 -1.161650e-02 1.634184e-03 -1.393519e-02 -0.018966862
## 1676 -1.561211e-02 2.035007e-02 1.275042e-02 0.024748666
## 1677 -1.589938e-02 1.736967e-02 1.347571e-02 0.017160606
## 1678 1.034550e-03 2.747067e-03 2.235547e-02 -0.015644972
## 1679 -1.471068e-02 1.916935e-02 2.793882e-02 0.023643174
## 1680 -1.459875e-02 1.843467e-02 3.110176e-02 -0.027579661
## 1681 -1.575034e-02 1.813973e-02 -1.466390e-02 0.019412905
## 1684 -1.121116e-02 1.639066e-02 2.727296e-02 0.023311983
## 1685 7.203243e-04 -1.266357e-02 -7.747403e-05 0.013350745
## 1686 -1.511035e-02 1.916097e-02 -6.202012e-03 -0.023904591
## 1687 4.579661e-02 2.513370e-02 2.796417e-02 0.025766105

```

```

## 1688 5.708507e-02 8.890163e-03 -2.561071e-02 -0.015576348
## 1689 -1.439235e-02 1.730666e-02 -7.726760e-03 0.024486412
## 1691 -1.601300e-02 1.842516e-02 1.758414e-02 -0.034299265
## 1692 5.793461e-03 -1.590608e-02 3.369679e-02 0.027240976
## 1694 -1.549910e-02 2.207287e-02 3.131618e-02 0.025280109
## 1695 -2.516873e-03 1.585900e-03 5.424401e-03 0.026106170
## 1696 1.293139e-03 -1.608448e-02 -4.052481e-03 -0.017446734
## 1697 -1.502809e-02 1.800076e-02 -2.533156e-02 -0.024413405
## 1698 -1.454726e-02 -2.330188e-02 -2.824240e-02 -0.026748570
## 1699 -1.465965e-03 -4.169675e-02 3.678328e-03 -0.019878003
## 1700 -1.746964e-02 2.368051e-02 6.031813e-03 0.026365375
## 1703 1.369193e-03 -3.903676e-02 2.354225e-03 -0.023868463
## 1704 -3.320059e-03 -1.985168e-02 2.972572e-02 0.027600777
## 1705 -1.458908e-02 1.923114e-02 -4.878377e-03 -0.023015635
## 1706 3.441287e-02 -2.542583e-02 -3.066047e-03 -0.021740681
## 1707 -7.130136e-03 -6.265885e-02 -1.095609e-02 0.022609946
## 1708 -1.167456e-02 1.592490e-02 2.338939e-02 0.018786948
## 1710 -1.793838e-02 2.040170e-02 -3.855045e-02 0.018413868
## 1711 2.268693e-03 6.255314e-03 -5.819893e-02 0.028594733
## 1713 -1.490328e-02 2.204528e-02 1.587479e-02 0.026705851
## 1714 -6.122860e-04 -6.173206e-02 -4.742552e-02 -0.020271180
## 1715 -1.393969e-02 1.941536e-02 3.479165e-02 0.026734590
## 1716 -3.198341e-03 -3.546983e-02 2.261518e-02 -0.020919997
## 1717 -1.449850e-02 1.911481e-02 2.935461e-02 -0.025826890
## 1718 -5.216796e-03 -2.028205e-02 1.562110e-02 0.026965524
## 1719 1.011298e-01 5.018955e-02 2.082879e-03 -0.023971189
## 1722 -1.477026e-02 2.172330e-02 -1.513616e-02 0.030548643
## 1723 3.535050e-03 -3.452084e-02 2.629897e-02 -0.016736810
## 1724 -3.245820e-03 -1.210222e-02 1.445174e-02 0.015326683
## 1725 2.604436e-03 4.894656e-03 -8.464371e-03 -0.022203704
## 1726 -1.495790e-02 2.199665e-02 -1.254516e-02 0.028763007
## 1727 3.231892e-03 5.743123e-03 -4.966296e-02 -0.015980642
## 1729 -3.813810e-03 2.612598e-03 3.304039e-02 0.022512437
## 1730 -2.142777e-03 3.555397e-03 -2.980303e-02 0.032866866
## 1732 -1.516394e-02 1.881229e-02 -1.189314e-02 -0.028006135
## 1733 5.614251e-02 -1.551344e-02 -1.068268e-02 -0.022841831
## 1734 -8.299721e-03 1.031022e-02 2.123183e-04 0.012239382
## 1735 -1.034297e-03 -6.148572e-02 -2.113626e-02 -0.012869115
## 1736 -1.386499e-02 1.781292e-02 2.591218e-02 0.023519191
## 1737 -5.913398e-03 -4.333829e-02 -6.881925e-03 -0.017907720
## 1738 -2.608069e-05 4.885469e-03 -1.259268e-02 0.023977011
## 1741 6.455925e-02 -1.282233e-02 2.694915e-02 0.016936594
## 1742 -1.791043e-02 2.038011e-02 2.457132e-03 0.017027661
## 1743 -1.082688e-02 -4.571632e-02 -1.813610e-02 -0.018976285
## 1744 1.244898e-04 3.811931e-03 2.510333e-02 -0.028058715
## 1745 3.562709e-02 -2.432260e-02 -1.128471e-02 0.032389217
## 1746 -1.816420e-03 -1.994496e-02 1.391540e-03 0.019252134
## 1748 8.911917e-03 7.683679e-03 2.296776e-03 -0.023506278
## 1749 -1.303715e-03 -1.716874e-02 -9.860635e-04 0.012481169
## 1751 -1.094777e-02 -2.039872e-02 3.787424e-02 0.019631067
## 1752 -1.477926e-02 1.866789e-02 2.790948e-02 0.024324177
## 1753 -1.436972e-02 2.296072e-02 1.971571e-02 0.027359816
## 1754 2.650211e-03 -3.661540e-02 -9.829423e-04 -0.021645118
## 1755 -9.246585e-03 -2.350712e-02 -2.513713e-02 -0.022079670

```

```

## 1756 -6.354140e-03 -2.150743e-02 2.549834e-02 -0.029816781
## 1757 -3.275134e-03 2.657587e-03 5.415018e-04 0.028883383
## 1760 -1.488526e-02 1.857352e-02 2.704055e-02 0.024019842
## 1761 -1.394588e-02 2.118252e-02 -1.026218e-02 0.034063625
## 1762 7.054446e-02 1.346759e-02 7.713445e-03 0.025286658
## 1763 -2.869891e-03 -1.188281e-02 -3.115114e-02 0.014896166
## 1764 1.214322e-02 -3.539073e-02 8.419460e-03 -0.022932791
## 1765 -1.407149e-02 1.691414e-02 1.563000e-02 -0.029139896
## 1767 2.325984e-02 -8.628722e-03 4.036122e-03 0.024921703
## 1768 3.419405e-02 3.070509e-03 5.077755e-02 0.019770684
## 1770 -1.146409e-02 1.435186e-02 -1.133019e-02 -0.018536859
## 1771 -1.063855e-02 -2.295160e-02 -1.129537e-02 -0.019258680
## 1772 1.058062e-02 -1.360559e-02 -1.359201e-03 -0.028766203
## 1773 9.340220e-02 2.489555e-02 -1.275194e-02 0.021845860
## 1774 -1.513545e-02 1.815381e-02 -1.611227e-02 -0.025311231
## 1775 2.310187e-03 -4.055729e-02 4.317938e-02 0.026947690
## 1776 -1.083229e-03 1.905635e-03 2.167920e-02 -0.019568092
## 1779 -9.818520e-03 1.207012e-02 -2.309898e-02 -0.016998620
## 1780 4.616501e-02 -9.183735e-03 -3.533786e-02 -0.020864581
## 1781 7.982962e-02 2.324458e-02 3.623086e-02 0.020524050
## 1782 6.550977e-02 1.187983e-02 3.457513e-03 -0.024399237
## 1783 -1.420507e-02 2.134569e-02 -1.409949e-02 0.034296105
## 1784 -5.071603e-03 -1.774546e-02 -5.666353e-02 0.025215029
## 1786 -1.417104e-02 -6.763090e-02 3.041826e-02 0.024155941
## 1787 -1.487012e-02 1.839003e-02 -1.859929e-02 0.027264981
## 1789 7.441323e-03 -8.303015e-03 -5.743906e-03 -0.012661480
## 1790 8.271322e-02 1.967925e-02 -4.140367e-03 0.021546516
## 1791 2.382015e-02 1.499888e-02 -3.649917e-02 -0.016128141
## 1792 -1.424002e-02 1.978534e-02 3.094056e-02 -0.025962704
## 1793 -1.523804e-02 2.265274e-02 -5.335279e-02 0.035502732
## 1794 -1.388721e-02 1.685879e-02 -3.132283e-02 -0.021744122
## 1795 9.867378e-03 -1.340620e-02 2.970400e-02 0.022420888
## 1798 3.104705e-05 -1.809846e-02 -1.770204e-02 -0.018492438
## 1799 -1.446634e-02 1.958385e-02 2.908542e-02 -0.026612451
## 1800 -2.013741e-02 2.057766e-02 3.149090e-02 0.010387831
## 1801 3.266878e-02 1.768013e-02 -1.086412e-02 -0.025158420
## 1802 -1.274704e-02 2.264377e-02 -1.613373e-02 -0.011856326
## 1803 3.438651e-03 -1.822916e-02 3.322977e-02 0.023171243
## 1805 -1.545299e-02 1.806806e-02 2.238669e-02 0.022389873
## 1806 -3.451041e-03 1.830357e-03 2.784754e-02 -0.026330524
## 1808 -4.216507e-03 -5.314635e-02 -1.738322e-02 0.030146244
## 1809 3.313336e-03 3.861248e-03 1.110058e-02 0.018367173
## 1810 -1.871565e-02 2.150706e-02 -4.345410e-02 -0.025258479
## 1811 1.058369e-02 -1.205571e-02 3.312545e-02 0.027935970
## 1812 -4.567419e-03 -6.585907e-02 -3.203248e-02 0.032581844
## 1813 4.890047e-02 2.474893e-02 -7.221374e-03 0.023078928
## 1814 -5.101135e-03 -8.880877e-02 -4.367678e-02 0.028474061
## 1817 -1.086576e-02 -1.988468e-02 4.499737e-03 0.030468154
## 1818 -1.423140e-02 1.954958e-02 3.068779e-02 0.026873715
## 1819 -1.173285e-02 1.584435e-02 -1.329621e-03 -0.017984300
## 1820 -1.542599e-02 2.000421e-02 1.844059e-02 0.021298652
## 1821 -7.183101e-04 5.061757e-03 -1.410312e-02 0.032987989
## 1822 1.324374e-02 -3.554149e-02 4.223506e-02 0.026399213
## 1824 8.728211e-06 -1.739282e-02 3.403955e-02 0.023854499

```

```

## 1825 -1.426669e-02 1.976160e-02 -1.123624e-02 0.028727175
## 1828 -6.107020e-03 -2.079264e-02 4.699813e-03 0.024887235
## 1829 1.084629e-03 -3.924630e-02 8.375999e-04 -0.023174939
## 1830 -1.454111e-02 1.956375e-02 2.965225e-02 0.022763779
## 1831 -2.619886e-03 -1.305529e-02 2.042896e-02 0.014018053
## 1832 -7.764177e-03 9.617979e-03 1.660074e-02 -0.014963765
## 1833 -9.986444e-03 -1.982372e-02 3.137673e-02 0.016630815
## 1834 -1.879228e-03 -4.118912e-02 2.714625e-02 0.023947715
## 1837 -1.496840e-02 1.909039e-02 -1.350612e-02 -0.023247358
## 1838 4.754761e-03 -1.612062e-02 6.781176e-03 0.026097160
## 1839 1.520348e-03 -6.361727e-02 3.143306e-02 -0.027588632
## 1840 -1.239793e-02 -4.663562e-02 1.077223e-02 -0.020396725
## 1841 -8.747452e-03 -2.243061e-02 2.442248e-02 -0.029358724
## 1842 1.973546e-03 -3.951729e-02 -2.994427e-03 0.025321064
## 1844 2.792040e-04 -1.902861e-02 2.336879e-02 0.019166385
## 1845 -1.769283e-02 2.155865e-02 4.621276e-03 -0.031720483
## 1847 7.046241e-03 -3.850140e-02 -6.041643e-03 0.027181709
## 1848 6.667762e-02 3.760453e-02 -2.314433e-02 -0.034444408
## 1849 1.475849e-02 -3.095216e-02 2.034321e-02 0.028433682
## 1850 -1.658618e-02 2.012022e-02 -1.285491e-03 -0.029513934
## 1851 -1.520167e-02 1.873222e-02 2.391400e-02 -0.029211920
## 1852 4.949350e-03 -2.668476e-02 -5.162518e-04 0.021471567
## 1853 -8.686384e-04 1.362510e-03 1.301442e-03 0.016654420
## 1856 -5.800907e-03 -6.651583e-02 -1.036042e-02 -0.021261939
## 1857 -1.420761e-02 1.922330e-02 2.911319e-02 -0.026965590
## 1858 -1.805132e-03 -8.768522e-03 2.355323e-03 0.017232583
## 1859 1.786478e-03 -2.316019e-02 -1.941713e-02 -0.015991697
## 1860 -1.710755e-02 2.147694e-02 2.076128e-02 -0.031437441
## 1861 -1.468543e-02 1.855446e-02 2.953494e-02 0.024105248
## 1863 -8.298514e-03 -4.437505e-02 -4.948581e-03 0.027279865
## 1864 7.713150e-03 7.041456e-03 3.323810e-02 0.026005564
## 1866 -4.886106e-03 1.054333e-03 -2.090774e-02 -0.023365159
## 1867 3.093869e-03 5.014477e-03 2.859123e-02 -0.023361779
## 1868 -1.441526e-02 1.918892e-02 -2.590735e-02 -0.021159919
## 1869 -1.627449e-02 2.024724e-02 -1.068038e-02 -0.029854889
## 1870 -1.210398e-02 -1.610651e-03 -1.712883e-02 0.029912969
## 1871 -8.923621e-03 -1.952275e-02 -4.693928e-02 0.023646240
## 1872 -1.564655e-02 1.921695e-02 -2.275671e-02 -0.028923983
## 1875 -4.275203e-04 -1.728254e-02 3.174001e-02 0.022025650
## 1876 -1.419165e-02 1.879711e-02 -5.880163e-02 -0.019030890
## 1877 -9.369544e-03 1.415152e-02 -2.913043e-03 0.022292294
## 1878 -9.317571e-03 -2.067239e-02 3.724836e-03 -0.016330051
## 1879 1.052966e-02 -1.443569e-02 -8.241131e-03 -0.023340517
## 1880 -1.470632e-02 1.932372e-02 -1.135777e-02 0.028950520
## 1882 -1.372378e-02 1.960758e-02 3.656151e-02 -0.024090978
## 1883 6.195449e-03 -3.438729e-02 -6.461535e-03 -0.017196515
## 1885 5.259242e-02 5.047107e-03 -3.609716e-03 0.025673460
## 1886 -1.053623e-02 -4.664143e-02 8.042340e-03 -0.024989707
## 1887 -1.595619e-02 2.092455e-02 -2.376995e-02 0.024588004
## 1888 -1.138552e-02 -4.701052e-02 -3.347370e-02 0.031172142
## 1889 -1.529620e-02 1.738624e-02 3.666684e-03 0.012768085
## 1890 -1.376576e-02 1.996413e-02 -2.791504e-03 -0.020282901
## 1891 5.042274e-02 -3.939731e-02 -8.292206e-03 -0.019702177
## 1894 -1.467397e-02 1.959596e-02 -1.445105e-03 -0.024506270

```

```

## 1895  1.178016e-04 -4.052167e-02 -1.113426e-02 -0.016290358
## 1896 -5.207537e-03 -2.237070e-02 -3.001527e-02  0.028430840
## 1897 -1.507958e-02  1.908435e-02  2.523828e-02 -0.030227612
## 1898  4.834939e-03  6.841918e-03  3.181630e-02 -0.021933099
## 1899 -2.491355e-03  3.463128e-03  3.239452e-02 -0.023855389
## 1901 -7.320950e-03  2.701147e-03 -2.889537e-03  0.020481261
## 1902 -4.714158e-03  1.881193e-03 -6.515086e-03 -0.020738554
## 1904 -1.344484e-02  2.202252e-02  1.078041e-02 -0.016442704
## 1905 -1.268365e-02  1.457811e-02  2.012284e-02  0.017725129
## 1906 -1.126385e-02  1.196100e-02 -5.031989e-03 -0.023383576
## 1907 -1.489157e-02  2.205570e-02  1.597075e-02 -0.024705983
## 1908  1.698612e-04 -4.107515e-02 -1.755926e-02 -0.020570158
## 1909  3.773559e-03 -1.769957e-02 -9.529907e-03  0.025501926
## 1910 -5.156605e-03 -2.458837e-02 -1.448593e-02  0.012384747
## 1913  5.415896e-02  6.913947e-03  2.368174e-02 -0.030069341
## 1914 -1.501058e-02  2.194975e-02 -8.314938e-03 -0.023202667
## 1915 -1.604577e-02  1.807367e-02 -3.955852e-03 -0.033499400
## 1916 -9.370663e-03  1.422278e-02  8.795471e-03 -0.017292856
## 1917  1.012716e-01  5.175957e-03 -4.747788e-02  0.028829892
## 1918  2.016921e-03 -3.509490e-02 -2.047565e-02  0.028883816
## 1920 -1.442400e-02  1.878722e-02 -9.562277e-04  0.027438808
## 1921  3.610684e-03  4.834191e-03 -6.478161e-04 -0.024007744
## 1923 -1.599013e-02  1.772928e-02 -2.509724e-02  0.018974155
## 1924 -1.194580e-02 -2.618870e-03 -1.472793e-02  0.028027811
## 1925 -1.447851e-02  1.937605e-02  1.119384e-02  0.025785720
## 1926  5.822610e-03  9.359341e-03 -6.735797e-03  0.028634629
## 1927 -1.216986e-02  1.752948e-02 -3.797462e-02 -0.014791019
## 1928 -5.068848e-03  9.016307e-04 -3.640692e-03  0.029789104
## 1929 -1.0787779e-02  7.608611e-04  1.306650e-02  0.026591173
## 1932 -1.569302e-02  1.873517e-02  1.935344e-02 -0.031500487
## 1933 -1.382289e-02  2.050416e-02 -1.166700e-03 -0.019350964
## 1934  8.440221e-02  4.474691e-02  2.525954e-02  0.018259907
## 1935 -1.456371e-02  1.925372e-02  2.796371e-02  0.025919632
## 1936 -1.642488e-03 -2.030711e-02  2.925166e-02  0.023449099
## 1937 -1.466816e-02  1.817591e-02 -1.245016e-03 -0.025684240
## 1939 -9.670524e-03 -2.286405e-02  2.837277e-02 -0.024922960
## 1940 -8.700374e-03 -3.533011e-02  9.058496e-03 -0.020412317
## 1942  4.918835e-03 -3.627304e-02 -5.125262e-02  0.041684359
## 1943  6.200395e-02 -5.695320e-02 -1.485587e-02 -0.023837627
## 1944 -1.391396e-02  1.904434e-02  3.671518e-02  0.025831825
## 1945 -1.400046e-02  1.896733e-02  3.600617e-02  0.025583502
## 1946 -1.760782e-03  2.448658e-03  2.961049e-02  0.022642437
## 1947 -1.162826e-02  1.557836e-02 -1.063337e-02  0.023969690
## 1948 -1.500669e-02  1.826844e-02 -1.039473e-02  0.026134895
## 1951  5.215673e-02 -1.151119e-02 -2.631250e-02 -0.014432599
## 1952 -1.290153e-02 -2.264192e-02 -2.090944e-02 -0.026998399
## 1953 -1.287547e-02  2.075676e-02  4.180269e-02  0.030766596
## 1954 -2.809329e-03 -1.108244e-02 -3.883468e-03  0.012361645
## 1955 -1.436511e-02  1.844572e-02 -3.139501e-02  0.029214256
## 1956  1.186682e-02 -3.657040e-02  3.009176e-02 -0.028511066
## 1958 -1.420288e-02  2.266885e-02  2.161615e-02  0.028716706
## 1959 -7.744331e-03 -2.292472e-02  6.558469e-04  0.026353699
## 1961 -1.430561e-02  2.027136e-02  2.665416e-02 -0.022831545
## 1962  5.975233e-03  5.892309e-03 -6.000205e-03  0.026293900

```

```

## 1963 -1.633657e-02 1.975157e-02 -1.531843e-02 -0.028786216
## 1964 -1.978883e-03 4.763218e-03 -1.261328e-02 0.034824804
## 1965 8.200991e-03 8.768446e-03 3.050533e-02 0.020720912
## 1966 -1.466511e-02 2.068162e-02 2.467773e-02 -0.027962295
## 1967 6.680547e-02 3.372376e-02 2.201493e-02 0.011076705
## 1970 -3.441619e-03 -2.029789e-02 -2.447849e-02 0.033509710
## 1971 -1.339802e-02 2.206421e-02 -2.146995e-02 -0.013725282
## 1972 -2.869014e-04 2.794548e-03 -1.448995e-02 0.027881973
## 1973 -7.882217e-04 3.265967e-03 7.414887e-03 0.021247152
## 1974 -1.446934e-02 1.854989e-02 8.852475e-03 -0.025363117
## 1975 -6.786892e-03 7.164348e-04 3.149165e-02 -0.024189421
## 1977 -1.057365e-02 1.573027e-03 3.615090e-02 -0.024412217
## 1978 -1.425148e-02 1.874385e-02 -3.347758e-03 -0.023630646
## 1980 -1.010930e-02 1.253713e-02 -9.356159e-03 -0.016669716
## 1981 -1.203042e-02 -2.485721e-02 2.495934e-02 0.026166219
## 1982 1.719685e-02 -5.223873e-03 -9.101070e-03 -0.016878823
## 1983 5.538927e-03 -1.338790e-02 2.894007e-02 -0.018663982
## 1984 -1.418967e-02 2.017762e-02 -1.349737e-02 -0.019666005
## 1985 -6.201208e-03 3.116142e-03 3.061284e-02 -0.017398269
## 1986 -1.619867e-02 1.877188e-02 -7.454642e-03 -0.033839633
## 1989 -1.111297e-02 1.982896e-02 1.062182e-02 0.032775310
## 1990 -5.713645e-03 -6.414377e-02 3.584767e-02 -0.029310049
## 1991 -6.407552e-03 1.162393e-03 4.131577e-02 0.029922673
## 1992 -1.102193e-02 -4.054992e-02 -1.335577e-02 -0.015836201
## 1993 3.366292e-03 5.267692e-03 -4.064704e-03 0.028608436
## 1994 -1.143363e-02 -1.280478e-03 -3.484971e-02 0.028384329
## 1996 -1.468608e-02 1.855388e-02 -1.242863e-02 0.027424369
## 1997 -1.466545e-02 1.876921e-02 1.019428e-02 0.026126913
## 1999 -2.188858e-03 -2.030089e-02 2.959240e-02 -0.027075126
## 2000 3.852175e-02 -1.876235e-03 -3.943203e-02 -0.022380775
## 2001 -1.508897e-02 1.868207e-02 -1.974633e-02 0.023904228
## 2002 1.710375e-03 4.320361e-03 1.750012e-03 0.029111015
## 2003 -1.539766e-02 1.963550e-02 -7.285508e-02 0.027783329
## 2004 -7.998163e-03 -5.256112e-04 -3.666005e-02 -0.030854158
## 2005 -1.423067e-02 1.876237e-02 -4.047338e-02 0.030826531
## 2008 -1.307322e-02 1.635346e-02 7.832780e-03 -0.023471921
## 2009 -1.042045e-03 -1.372460e-02 -2.911770e-02 -0.010704411
## 2010 -1.142578e-02 -4.289226e-02 1.024082e-02 0.031015009
## 2011 -6.716718e-03 1.330186e-03 3.337459e-02 0.029499220
## 2012 4.745651e-02 2.845930e-03 2.780510e-02 -0.027893474
## 2013 -1.493840e-02 1.832924e-02 2.746123e-02 0.023378950
## 2015 -1.430853e-02 1.849609e-02 -2.959064e-03 0.027162701
## 2016 3.868442e-03 -3.867985e-02 -3.794459e-03 -0.025221100
## 2018 -1.246953e-02 -4.718993e-02 1.467999e-02 -0.021388134
## 2019 -1.594255e-02 2.089022e-02 3.110643e-02 -0.029391717
## 2020 -1.076661e-02 3.461132e-03 3.449295e-02 0.011607649
## 2021 -9.607081e-03 -2.290234e-02 -9.047271e-03 -0.031594600
## 2022 -3.936010e-03 -1.857887e-02 -8.468091e-04 0.036887420
## 2023 -7.203916e-03 8.217968e-05 -4.996799e-03 -0.022524941
## 2024 -1.134497e-02 1.390738e-02 1.563435e-02 -0.022622192
## 2027 -1.455081e-02 1.867431e-02 -3.929196e-02 0.030026715
## 2028 -1.504636e-02 1.823313e-02 -1.395857e-03 0.025283005
## 2029 -3.339667e-03 -1.277922e-02 -1.005833e-02 -0.010350200
## 2030 -1.317300e-02 2.226454e-02 3.165683e-02 -0.017138255

```

```

## 2031 -1.454376e-02 1.808970e-02 -3.200319e-02 -0.023232425
## 2032 6.606180e-02 3.418742e-02 -5.872424e-03 -0.029251170
## 2034 -9.238960e-04 -6.433235e-02 3.480467e-02 0.025884245
## 2035 -1.759229e-02 2.263298e-02 -8.160218e-03 0.023193174
## 2037 -1.634214e-02 1.761285e-02 1.778121e-02 0.014761864
## 2038 -4.511950e-03 -2.198892e-02 1.325457e-02 0.013961385
## 2039 -1.920130e-03 -1.991158e-02 -1.535617e-02 0.016684269
## 2040 -1.417381e-02 1.920693e-02 -3.239583e-02 -0.020217022
## 2041 -8.255916e-03 -3.789998e-02 1.887554e-02 -0.024814590
## 2042 -1.420863e-02 1.651017e-02 2.508376e-02 0.020160418
## 2043 -1.470522e-02 2.178120e-02 -2.858915e-02 -0.019603093
## 2046 -1.221248e-02 1.574911e-02 2.912504e-02 0.020585698
## 2047 -1.318282e-02 1.439975e-02 1.380675e-02 0.012365346
## 2048 6.364485e-02 -1.220969e-02 4.693982e-03 -0.026842074
## 2049 2.444963e-03 -4.002324e-02 1.099913e-02 -0.029608894
## 2050 8.660292e-02 4.517436e-02 -1.420163e-02 0.022492728
## 2051 4.215211e-02 -4.024121e-04 -1.465477e-03 -0.027180950
## 2053 -1.228036e-02 1.808547e-02 -2.125681e-02 0.029466405
## 2054 -5.541275e-03 -3.974990e-02 -9.641591e-03 0.031661010
## 2056 -1.327933e-02 1.806811e-02 -2.111873e-02 -0.019771574
## 2057 -8.327229e-03 -2.133998e-02 3.774059e-03 0.034219577
## 2058 -1.142178e-02 1.529337e-02 1.097498e-02 0.021935702
## 2059 6.271616e-02 1.001889e-02 -1.650852e-02 0.024261337
## 2060 2.474155e-04 -1.963252e-02 -2.602059e-03 -0.025965660
## 2061 6.660282e-02 1.219347e-02 -2.667052e-04 -0.024511356
## 2062 5.933149e-02 -1.408777e-02 -1.631094e-02 -0.024099158
## 2065 -5.312874e-03 -2.124419e-02 -2.718255e-03 -0.019067665
## 2066 4.561428e-02 2.536633e-02 2.566657e-02 0.017919418
## 2067 -1.294447e-02 -2.819423e-03 2.764890e-02 -0.027003779
## 2068 -4.863704e-03 -4.311497e-02 -2.580369e-03 0.029785137
## 2069 8.389855e-02 -2.623939e-03 3.190393e-02 0.023734484
## 2070 6.861084e-03 -3.703459e-02 -4.062030e-03 -0.018820248
## 2072 -9.822336e-03 4.688861e-03 -2.519243e-02 0.023797727
## 2073 -1.405321e-02 1.970822e-02 4.176298e-03 -0.021846152
## 2075 2.539047e-02 -4.558691e-03 -2.255563e-02 -0.018722219
## 2076 1.039251e-02 -9.868156e-03 2.988456e-02 0.015211512
## 2077 -1.475072e-02 1.948115e-02 2.471812e-02 -0.025086082
## 2078 -1.435199e-02 1.904828e-02 -1.054636e-02 -0.022573598
## 2079 -4.365700e-03 -4.286274e-02 -6.277344e-02 0.034718042
## 2080 -9.741761e-03 -4.587917e-02 -7.650795e-03 -0.022919772
## 2081 3.619931e-03 -1.324513e-02 -4.722838e-02 0.023654928
## 2084 -1.537246e-02 1.754887e-02 -3.499052e-02 0.025953136
## 2085 -1.506457e-02 1.821692e-02 -1.553120e-02 0.026337723
## 2086 -6.398997e-03 1.732724e-03 -2.936086e-02 -0.010334419
## 2087 -1.025509e-02 -4.633511e-02 -1.938580e-03 0.021982944
## 2088 -1.278479e-02 -3.057976e-03 2.628703e-02 -0.028277470
## 2089 -1.485925e-02 1.859668e-02 2.725378e-02 0.024094525
## 2091 9.516542e-03 -1.153201e-02 2.020784e-02 0.028933708
## 2092 -1.372386e-02 2.039537e-02 -1.814670e-02 -0.018078963
## 2094 4.457555e-02 2.607534e-02 -2.463612e-02 0.018309451
## 2095 1.043113e-01 5.126571e-02 -6.078271e-02 0.028403405
## 2096 3.691343e-02 -1.426739e-03 2.270592e-03 -0.021808762
## 2097 4.477033e-02 5.668653e-03 -1.667773e-02 0.033097615
## 2098 -1.351632e-02 1.961002e-02 -1.416884e-02 0.027662859

```

```

## 2099 -1.314249e-02 1.915376e-02 2.841334e-02 -0.021038869
## 2100 7.022663e-02 -8.941423e-03 1.822633e-02 0.025219695
## 2103 -9.197908e-03 1.318663e-02 1.398165e-02 -0.016660504
## 2104 -9.559140e-03 1.173267e-02 1.323884e-02 -0.019055190
## 2105 8.376115e-02 2.553941e-02 2.574635e-02 -0.015435901
## 2106 -1.273426e-02 -2.175527e-02 2.182965e-02 0.029944122
## 2107 -1.085880e-02 -2.464627e-02 4.604008e-03 -0.026441394
## 2108 -1.356519e-02 -4.758930e-02 3.081794e-02 0.026062512
## 2110 -1.173123e-02 1.586429e-02 3.308552e-02 0.021247615
## 2111 6.862564e-03 6.092506e-03 -4.609777e-04 0.023155890
## 2113 -4.932826e-03 -6.596211e-02 -3.544806e-02 -0.016825102
## 2114 -3.451651e-03 -6.475214e-02 -1.130743e-02 -0.019271326
## 2115 1.062974e-01 3.063970e-02 -7.349046e-02 -0.019954808
## 2116 -1.466198e-02 2.000056e-02 -1.238349e-02 -0.022757216
## 2117 -8.450926e-04 -1.327754e-02 3.521380e-02 0.012802447
## 2118 3.975354e-02 2.264629e-03 3.625296e-02 0.013418725
## 2119 5.076961e-03 -3.925193e-02 2.972209e-02 -0.026927045
## 2122 -1.469934e-02 1.952689e-02 -5.411518e-02 0.032779836
## 2123 4.288852e-03 -1.686707e-02 -4.029239e-03 -0.022164687
## 2124 -6.787449e-03 7.490068e-05 2.845638e-02 0.024605081
## 2125 -4.181478e-03 -2.116833e-02 3.529759e-02 0.025631195
## 2126 -1.793439e-02 2.090318e-02 3.114609e-02 -0.033750118
## 2127 -1.402904e-02 2.032063e-02 -1.684267e-02 -0.018835836
## 2129 -9.959425e-03 1.285243e-02 2.330905e-02 0.012161648
## 2130 -9.940413e-03 -1.865211e-03 2.852657e-02 0.023111389
## 2132 -4.488496e-03 3.907066e-03 -1.571770e-02 -0.018355931
## 2133 -8.298171e-03 1.075637e-02 2.742190e-03 0.015321846
## 2134 -1.489689e-02 1.777531e-02 2.398350e-03 0.024247197
## 2135 -1.517476e-02 1.772489e-02 -1.938385e-02 0.025413735
## 2136 2.767640e-02 -2.468036e-02 -5.879921e-03 -0.027629299
## 2137 7.460376e-03 -1.324076e-02 -3.607654e-02 0.029277437
## 2138 -1.491954e-02 2.203081e-02 1.574152e-02 0.026659174
## 2141 -1.517791e-02 1.831297e-02 -2.197861e-02 0.026869638
## 2142 8.921688e-03 -1.516501e-02 -2.192815e-02 0.029349072
## 2143 -1.485350e-02 1.801090e-02 1.897708e-03 0.024860082
## 2144 -9.029625e-03 -5.285119e-02 2.775074e-02 -0.019887173
## 2145 -1.512433e-02 1.831813e-02 -1.872859e-03 0.021934858
## 2146 -1.579289e-02 2.023560e-02 1.244832e-02 0.022375119
## 2148 4.218192e-02 2.331264e-02 -5.415311e-02 -0.017899193
## 2149 -1.348345e-02 1.942763e-02 -2.968617e-02 -0.018842623
## 2151 1.540237e-03 -4.021573e-02 -1.322316e-02 -0.020290809
## 2152 -1.553865e-02 1.779484e-02 -1.941742e-02 0.024976614
## 2153 2.519662e-02 -7.345288e-03 3.012269e-02 -0.026637516
##   CAR_TYPE_Panel.Truck    REVOKED_Yes EDUCATION_.High.School
## 1           -3.066834e+00 -8.268947e+00      -6.802706e+00
## 3            1.670654e-01  1.050155e+00      3.957399e-01
## 4           -6.650651e-01  5.929337e-01      9.453741e-01
## 5           -3.541984e-01 -8.173915e-01      3.267582e-01
## 6            5.745846e+00  1.237718e-01     -1.634933e+00
## 7            1.539182e-01 -8.762814e+00      2.989802e-01
## 8            2.312896e-01 -3.769614e+00     -6.634579e-02
## 9           -8.860765e-02  1.302553e-01     -4.562614e+00
## 12           3.822388e-02  8.448104e-01      1.834014e-01
## 13           8.821588e+00 -1.434641e-01      9.597942e-02

```

| | | | |
|-------|---------------|---------------|---------------|
| ## 14 | -4.589121e-03 | 1.279752e+01 | -5.461553e-01 |
| ## 15 | -1.565120e-02 | -3.862464e-02 | -1.403089e+01 |
| ## 16 | 1.831503e-02 | 1.843212e-02 | -2.643775e-03 |
| ## 17 | -1.508654e-02 | 1.477890e-02 | -1.640535e-02 |
| ## 19 | -1.880454e-03 | 3.371079e-03 | -1.907747e-02 |
| ## 20 | 6.243977e-03 | 7.154816e-03 | -2.123086e-02 |
| ## 22 | 3.260350e-03 | 6.996956e-03 | -8.821861e-03 |
| ## 23 | -8.794506e-02 | 2.498235e-03 | 6.308084e-03 |
| ## 24 | 1.533389e-02 | 1.202389e-02 | -1.597318e-02 |
| ## 25 | 5.396118e-03 | 6.479649e-03 | -1.399629e-02 |
| ## 26 | 2.762299e-03 | -1.016467e-03 | -6.708747e-03 |
| ## 27 | -8.137061e-03 | 5.498955e-03 | 5.664495e-02 |
| ## 28 | 4.906335e-02 | 1.455258e-02 | 9.977382e-03 |
| ## 31 | 2.267117e-02 | -6.176963e-02 | -9.667280e-03 |
| ## 32 | -5.817583e-03 | 6.751777e-03 | 4.093563e-02 |
| ## 33 | 6.082167e-03 | 3.649378e-03 | 6.807208e-03 |
| ## 34 | 9.083134e-03 | -7.507181e-02 | 5.164681e-02 |
| ## 35 | 2.325868e-02 | 1.572031e-02 | -6.328869e-04 |
| ## 36 | 7.823048e-03 | 1.172611e-02 | 4.673590e-04 |
| ## 38 | 1.434204e-02 | -4.786154e-02 | -1.909720e-02 |
| ## 39 | -6.397047e-04 | 8.714931e-03 | -1.745883e-02 |
| ## 41 | 8.160672e-03 | -6.240547e-03 | -1.104131e-02 |
| ## 42 | -1.687164e-02 | 1.610922e-02 | -2.136984e-02 |
| ## 43 | -2.434892e-02 | 3.337291e-03 | 9.226182e-03 |
| ## 44 | 7.345015e-03 | 8.900469e-03 | 5.842506e-02 |
| ## 45 | 1.079287e-02 | 1.364426e-02 | 5.404303e-02 |
| ## 46 | 8.432024e-03 | 8.534145e-03 | -2.211358e-03 |
| ## 47 | 3.032446e-02 | 1.593854e-02 | 8.691466e-04 |
| ## 50 | 4.354501e-02 | 1.256708e-02 | 6.789744e-02 |
| ## 51 | -6.790568e-03 | -6.349145e-02 | 5.286782e-02 |
| ## 52 | 2.679487e-02 | 1.165703e-02 | -1.676298e-02 |
| ## 53 | 1.502846e-02 | 1.386598e-02 | -3.618821e-03 |
| ## 54 | -5.555336e-03 | 8.462687e-03 | -1.270257e-02 |
| ## 55 | -7.860391e-03 | 1.151473e-02 | 2.502898e-03 |
| ## 57 | -1.239114e-02 | 1.938551e-02 | 5.179276e-02 |
| ## 58 | 1.370458e-02 | 1.390848e-02 | 1.419665e-03 |
| ## 60 | 3.126881e-03 | 1.613458e-02 | -1.455699e-02 |
| ## 61 | 5.042902e-03 | 2.783471e-02 | -9.612891e-03 |
| ## 62 | -4.882720e-03 | 1.653126e-02 | -2.468417e-02 |
| ## 63 | -8.828905e-02 | 1.457272e-02 | 5.668021e-03 |
| ## 64 | 2.293800e-02 | 1.477674e-02 | -1.704909e-02 |
| ## 65 | 2.758432e-02 | 1.524058e-02 | -1.735288e-02 |
| ## 66 | -5.327111e-03 | 1.013322e-02 | 4.561785e-02 |
| ## 69 | 2.424624e-02 | -4.655013e-03 | 7.191224e-03 |
| ## 70 | -4.289523e-03 | 1.366879e-02 | -7.601669e-03 |
| ## 71 | 2.808091e-02 | 6.844401e-03 | -8.710254e-03 |
| ## 72 | 2.919308e-03 | -5.629228e-02 | -1.769401e-02 |
| ## 73 | 2.798155e-02 | 1.842209e-02 | -1.096842e-02 |
| ## 74 | 1.062080e-02 | 2.601386e-03 | -1.767816e-02 |
| ## 76 | 7.536389e-04 | -6.493430e-02 | -1.899448e-02 |
| ## 77 | -8.460057e-03 | 6.815876e-03 | -2.370488e-02 |
| ## 79 | -6.181548e-03 | 1.374143e-03 | -2.364512e-03 |
| ## 80 | -4.457038e-03 | -1.398864e-03 | -6.299487e-03 |
| ## 81 | -7.216646e-02 | 1.281407e-02 | -1.817064e-04 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 82 | -1.494854e-02 | 1.027907e-02 | -1.504410e-02 |
| ## 83 | 4.341200e-03 | -6.643589e-02 | -8.897329e-03 |
| ## 84 | -7.035421e-02 | 1.021055e-02 | -1.659900e-02 |
| ## 85 | -4.942549e-02 | -4.028523e-02 | 3.267694e-02 |
| ## 88 | -1.448356e-02 | 1.209803e-02 | 4.136639e-02 |
| ## 89 | -3.331052e-03 | -8.351968e-03 | 4.029029e-02 |
| ## 90 | 5.248168e-03 | 1.355813e-02 | -2.016448e-02 |
| ## 91 | 2.023627e-03 | 8.700768e-03 | -1.611001e-02 |
| ## 92 | -8.671211e-02 | 5.333995e-03 | -7.122738e-03 |
| ## 93 | -4.753312e-03 | 1.158977e-02 | -2.719910e-02 |
| ## 95 | 2.173360e-02 | 9.403900e-03 | -9.931424e-03 |
| ## 96 | -8.932552e-03 | 1.657888e-02 | -1.616756e-02 |
| ## 98 | 6.772925e-03 | 8.867809e-03 | -1.270930e-02 |
| ## 99 | 9.011732e-04 | 8.905115e-03 | -2.333225e-02 |
| ## 100 | 1.411815e-02 | 1.096790e-02 | 4.987257e-03 |
| ## 101 | -8.144342e-03 | -6.015418e-02 | -1.131249e-02 |
| ## 102 | 1.802989e-02 | 2.506500e-02 | 4.949059e-02 |
| ## 103 | 3.032698e-02 | -1.348393e-03 | 6.206927e-02 |
| ## 104 | 7.746891e-03 | -1.542637e-02 | -4.648420e-03 |
| ## 107 | -4.151266e-04 | -9.511092e-03 | -2.175922e-02 |
| ## 108 | -1.051400e-02 | 4.326077e-03 | -2.487145e-02 |
| ## 109 | 1.013237e-02 | 1.276992e-02 | 5.732538e-02 |
| ## 110 | 1.203796e-03 | -1.435202e-02 | -1.365712e-02 |
| ## 111 | 2.858053e-03 | 1.083949e-02 | -9.037287e-03 |
| ## 112 | -6.970417e-03 | -4.994669e-03 | -1.345981e-02 |
| ## 114 | 6.149282e-04 | 1.289416e-02 | -1.493954e-02 |
| ## 115 | 2.105928e-03 | 1.242438e-02 | -7.070251e-03 |
| ## 117 | -2.389672e-03 | 4.412306e-03 | -1.332483e-02 |
| ## 118 | 2.495307e-02 | 1.442982e-02 | -1.441264e-02 |
| ## 119 | -1.136969e-02 | 6.081960e-03 | 4.701420e-02 |
| ## 120 | -6.848263e-03 | 7.071583e-03 | 4.282538e-02 |
| ## 121 | 2.962124e-02 | 7.820172e-03 | -3.673880e-03 |
| ## 122 | 7.659864e-03 | -6.802360e-02 | -7.506361e-03 |
| ## 123 | -2.829998e-04 | 4.045190e-03 | -2.317118e-02 |
| ## 126 | -4.881250e-03 | -6.468058e-02 | -1.475339e-02 |
| ## 127 | 2.386161e-02 | 6.242226e-03 | -1.326596e-02 |
| ## 128 | 1.518453e-03 | -2.517801e-02 | -1.190829e-02 |
| ## 129 | 3.017438e-02 | 1.639674e-02 | 5.580588e-02 |
| ## 130 | -1.375583e-02 | 3.993659e-03 | -1.085186e-02 |
| ## 131 | -8.824916e-02 | -1.186508e-02 | -2.730258e-03 |
| ## 133 | -4.767144e-03 | 1.379788e-02 | -1.553598e-02 |
| ## 134 | 1.043222e-02 | -6.723503e-02 | -2.012230e-02 |
| ## 136 | 1.705546e-02 | -6.532652e-02 | -6.396441e-03 |
| ## 137 | 3.013506e-02 | 1.091549e-02 | -1.733451e-02 |
| ## 138 | -1.398651e-03 | 1.469442e-02 | -1.198144e-02 |
| ## 139 | -6.218278e-02 | 1.274665e-02 | -5.050780e-03 |
| ## 140 | 3.054956e-02 | 1.376229e-02 | 5.953757e-02 |
| ## 141 | 1.763750e-02 | 9.984910e-04 | -9.039005e-03 |
| ## 142 | 4.909104e-03 | 9.021146e-03 | -1.320043e-02 |
| ## 145 | -7.138917e-03 | 1.174921e-02 | 3.329458e-02 |
| ## 146 | 9.682844e-04 | -6.949126e-02 | -2.396877e-03 |
| ## 147 | 1.440690e-02 | 1.166301e-02 | 4.776580e-04 |
| ## 148 | -1.023349e-02 | 1.233135e-02 | -5.463043e-03 |
| ## 149 | 2.325835e-02 | 1.169820e-02 | 9.234085e-03 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 150 | -8.693963e-02 | 2.355059e-02 | 1.058612e-02 |
| ## 152 | -1.077352e-02 | 1.471765e-02 | 1.029471e-03 |
| ## 153 | 3.592002e-02 | 1.032962e-02 | -3.295914e-03 |
| ## 155 | -6.275474e-03 | 1.730626e-02 | 4.743214e-02 |
| ## 156 | 1.486511e-02 | 7.262184e-03 | -1.408942e-02 |
| ## 157 | -1.396287e-02 | 8.960134e-03 | 2.218757e-03 |
| ## 158 | 7.975508e-03 | -6.975777e-02 | -3.959414e-03 |
| ## 159 | 1.174753e-02 | 1.217389e-02 | -2.364873e-04 |
| ## 160 | -6.609542e-03 | 2.108490e-02 | 5.075858e-02 |
| ## 161 | -1.739841e-03 | 1.615200e-02 | -2.380476e-02 |
| ## 164 | -1.054276e-02 | 4.248825e-03 | -7.538890e-03 |
| ## 165 | -9.609243e-03 | -2.510536e-02 | -2.100087e-02 |
| ## 166 | 5.190516e-05 | -6.518642e-02 | -9.790115e-03 |
| ## 167 | -1.514841e-03 | 1.133502e-02 | -2.283985e-02 |
| ## 168 | 2.307189e-03 | 9.307460e-03 | -1.217095e-03 |
| ## 169 | -5.178702e-03 | 9.381833e-03 | -2.109504e-02 |
| ## 171 | 1.366596e-03 | 1.546844e-02 | -2.890518e-02 |
| ## 172 | -5.225518e-03 | 8.146325e-03 | -2.436479e-02 |
| ## 174 | 2.645305e-02 | 1.498336e-02 | -1.460797e-02 |
| ## 175 | 3.305968e-02 | -6.608385e-02 | 1.905217e-03 |
| ## 176 | -1.425599e-02 | 2.643923e-02 | -1.479858e-02 |
| ## 177 | -1.807258e-02 | 5.470788e-03 | -1.748114e-02 |
| ## 178 | 1.511401e-02 | -3.545864e-02 | -1.904679e-02 |
| ## 179 | 3.425755e-02 | -4.770006e-03 | 8.500002e-03 |
| ## 180 | 1.229188e-02 | 1.162018e-02 | 4.488865e-03 |
| ## 183 | 2.349706e-02 | 6.299251e-03 | 2.257143e-03 |
| ## 184 | -5.983059e-02 | 1.138838e-02 | 3.381157e-03 |
| ## 185 | 5.398053e-02 | 1.109759e-02 | 9.887055e-03 |
| ## 186 | 2.002026e-03 | 7.872602e-03 | -1.640232e-02 |
| ## 187 | -5.912952e-03 | 8.120085e-03 | -1.962899e-02 |
| ## 188 | -5.625019e-03 | 8.380979e-03 | -1.307693e-02 |
| ## 190 | 9.914628e-03 | -4.038893e-02 | -7.033501e-03 |
| ## 191 | -9.992620e-03 | 8.790368e-03 | -2.562148e-02 |
| ## 193 | 1.803084e-03 | 6.792843e-03 | -1.172844e-02 |
| ## 194 | -8.501688e-03 | -6.974574e-02 | -7.319866e-03 |
| ## 195 | 3.758434e-02 | 1.583333e-02 | -4.661289e-04 |
| ## 196 | 3.449210e-02 | 1.835448e-02 | -1.372364e-02 |
| ## 197 | -1.103245e-03 | 1.021032e-02 | -1.884263e-02 |
| ## 198 | 5.753899e-03 | 1.595586e-02 | -2.158352e-02 |
| ## 199 | 3.042013e-02 | 1.659019e-02 | -5.968363e-03 |
| ## 202 | 3.991657e-03 | 9.135354e-03 | -3.556022e-03 |
| ## 203 | 1.408329e-02 | 8.582541e-03 | -6.690927e-03 |
| ## 204 | 7.424618e-03 | 9.640544e-03 | -2.082336e-02 |
| ## 205 | 5.135008e-03 | -3.340503e-02 | -1.197735e-02 |
| ## 206 | 2.017212e-02 | 1.016360e-02 | -1.601800e-03 |
| ## 207 | 4.375340e-02 | 1.356700e-02 | 7.924323e-03 |
| ## 209 | -6.996954e-03 | -6.890939e-02 | -2.350438e-02 |
| ## 210 | 3.016308e-03 | 6.530213e-03 | -1.165395e-02 |
| ## 212 | -8.710496e-03 | -1.190833e-03 | -2.014705e-02 |
| ## 213 | 5.859253e-03 | 1.681841e-02 | -3.782043e-03 |
| ## 214 | 2.680573e-03 | 9.847269e-03 | -2.618512e-03 |
| ## 215 | 5.292576e-03 | 5.588097e-03 | -5.778866e-03 |
| ## 216 | -1.542439e-02 | 9.194391e-03 | -1.828965e-02 |
| ## 217 | 5.174603e-04 | 1.063829e-02 | -8.054510e-03 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 218 | 1.668435e-02 | 9.830247e-03 | 1.294208e-03 |
| ## 221 | 2.044754e-02 | 1.462325e-02 | -8.254997e-03 |
| ## 222 | -5.568510e-03 | -3.210652e-02 | -8.007402e-03 |
| ## 223 | -1.028106e-02 | 1.184418e-02 | -7.506412e-03 |
| ## 224 | -4.065700e-03 | 1.863806e-02 | -1.431035e-02 |
| ## 225 | 2.747815e-02 | 1.652054e-02 | 6.402743e-02 |
| ## 226 | -4.356383e-03 | 7.038121e-03 | -2.177937e-02 |
| ## 228 | -8.663462e-02 | 1.069543e-02 | -8.473549e-03 |
| ## 229 | 9.231278e-03 | 9.024128e-03 | -2.112739e-02 |
| ## 231 | -4.177782e-03 | 1.186453e-02 | -2.278418e-02 |
| ## 232 | -6.338839e-03 | -4.612579e-02 | -8.545929e-03 |
| ## 233 | 2.069517e-02 | 1.682281e-02 | 2.295723e-03 |
| ## 234 | 1.144999e-02 | 2.331972e-02 | -1.312852e-02 |
| ## 235 | -3.508257e-03 | 3.912654e-03 | -9.032615e-03 |
| ## 236 | -1.410773e-03 | 1.390293e-02 | -2.132214e-02 |
| ## 237 | 2.290405e-03 | 7.490492e-03 | -2.221336e-02 |
| ## 240 | -9.644502e-03 | -4.025279e-02 | -2.289787e-02 |
| ## 241 | 7.630507e-03 | 5.074621e-03 | -5.790234e-03 |
| ## 242 | 1.433264e-03 | 6.895049e-03 | 4.029544e-02 |
| ## 243 | 7.006157e-04 | 1.481915e-02 | -7.260388e-03 |
| ## 244 | 6.814739e-03 | -3.693301e-02 | -5.368794e-03 |
| ## 245 | -8.162088e-02 | -2.684109e-02 | -1.954356e-02 |
| ## 247 | -1.126195e-02 | 6.635007e-03 | -3.835400e-03 |
| ## 248 | -2.909983e-03 | 1.116223e-02 | 4.623682e-02 |
| ## 250 | 6.556731e-04 | -2.538046e-02 | -4.666387e-03 |
| ## 251 | 1.447181e-02 | 6.293576e-03 | -5.493331e-03 |
| ## 252 | -1.435466e-02 | -1.840263e-02 | -2.629884e-02 |
| ## 253 | -7.533971e-03 | 7.648247e-03 | 4.643662e-02 |
| ## 254 | 6.814082e-03 | 2.269399e-03 | 5.922196e-02 |
| ## 255 | 4.637959e-02 | 8.040777e-03 | 3.029158e-03 |
| ## 256 | -1.469355e-02 | 1.717226e-02 | 5.122547e-02 |
| ## 259 | -1.270728e-02 | 1.254343e-02 | -1.818769e-02 |
| ## 260 | 1.632798e-03 | 1.120003e-02 | -2.403300e-02 |
| ## 261 | 1.710634e-02 | 1.211005e-02 | -8.619134e-03 |
| ## 262 | 7.632244e-03 | 1.505881e-02 | -2.105858e-02 |
| ## 263 | -1.398094e-02 | -1.546225e-02 | 5.898690e-02 |
| ## 264 | 2.032497e-02 | 1.535046e-02 | -7.567697e-04 |
| ## 266 | 2.241164e-02 | 2.324657e-02 | -5.731084e-03 |
| ## 267 | 4.380524e-03 | 1.777460e-02 | 5.833439e-02 |
| ## 269 | 1.999527e-02 | 1.756495e-02 | -9.497814e-03 |
| ## 270 | 1.203709e-02 | 1.818542e-02 | 5.048504e-02 |
| ## 271 | 2.274530e-02 | 7.856438e-03 | 5.935997e-02 |
| ## 272 | -1.463539e-02 | -2.319559e-02 | -2.189609e-02 |
| ## 273 | 1.952496e-03 | 7.337799e-03 | 5.470474e-02 |
| ## 274 | 1.663154e-02 | 6.943691e-03 | -1.262395e-02 |
| ## 275 | 4.437257e-03 | 6.795952e-03 | 3.705772e-02 |
| ## 278 | -6.045047e-03 | -1.194571e-02 | -1.258877e-02 |
| ## 279 | 7.361826e-03 | -5.687694e-02 | 5.193952e-02 |
| ## 280 | 1.975186e-02 | 8.419213e-03 | -1.799610e-02 |
| ## 281 | -8.388149e-03 | 1.056181e-02 | -2.607519e-02 |
| ## 282 | -9.267326e-03 | -6.413244e-03 | -1.655843e-02 |
| ## 283 | 2.244463e-02 | 6.498668e-03 | 1.058979e-02 |
| ## 285 | -7.665760e-03 | 8.292711e-03 | -1.267030e-03 |
| ## 286 | 8.929506e-03 | 1.464525e-02 | -1.278835e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 288 | 2.050796e-02 | 5.401774e-03 | -4.795671e-04 |
| ## 289 | 1.450499e-02 | 1.179754e-02 | -2.134286e-02 |
| ## 290 | 1.009779e-03 | 6.697809e-04 | -1.962077e-02 |
| ## 291 | -8.333743e-03 | -5.287211e-02 | 5.083445e-02 |
| ## 292 | 2.009922e-03 | 1.372010e-02 | -1.994951e-02 |
| ## 293 | -4.734570e-03 | -3.533576e-02 | 5.994613e-02 |
| ## 294 | -6.454158e-03 | 1.288925e-02 | -2.959436e-02 |
| ## 297 | 9.132423e-05 | 1.737551e-02 | -2.025061e-02 |
| ## 298 | -7.977688e-03 | 6.258356e-03 | -8.393497e-04 |
| ## 299 | -2.586707e-03 | 9.938405e-03 | 5.659854e-02 |
| ## 300 | 2.153144e-02 | 1.226988e-02 | 4.804196e-03 |
| ## 301 | 1.416545e-02 | -2.146703e-02 | 7.444586e-03 |
| ## 302 | 2.746948e-03 | -6.646456e-02 | -1.850531e-03 |
| ## 304 | -1.060925e-02 | 8.964765e-03 | -3.871919e-03 |
| ## 305 | 6.008703e-03 | -1.403739e-02 | 3.394013e-03 |
| ## 307 | -1.630426e-03 | 8.230264e-03 | 5.518152e-02 |
| ## 308 | 2.097437e-03 | 1.505105e-02 | -1.930154e-02 |
| ## 309 | 4.923614e-03 | 5.510482e-02 | -4.374585e-03 |
| ## 310 | -3.276757e-03 | 4.845287e-02 | -1.295028e-02 |
| ## 311 | 1.623790e-02 | 1.109074e-02 | 6.091440e-02 |
| ## 312 | 1.584899e-02 | 1.364388e-02 | -8.612902e-03 |
| ## 313 | 1.427004e-02 | -2.783848e-02 | -1.580207e-02 |
| ## 316 | 1.422471e-02 | 1.805709e-02 | -1.050674e-02 |
| ## 317 | -4.805600e-03 | 8.868450e-03 | -2.259053e-02 |
| ## 318 | 7.846334e-03 | -2.668738e-02 | -1.766954e-02 |
| ## 319 | -3.502939e-03 | 5.757025e-03 | -1.346339e-02 |
| ## 320 | -8.344421e-02 | 1.231465e-02 | -8.322201e-03 |
| ## 321 | 7.503364e-03 | 1.339901e-02 | -1.644380e-02 |
| ## 323 | 3.627182e-02 | -6.683821e-02 | 1.045224e-02 |
| ## 324 | -2.272806e-03 | 5.630198e-03 | -4.732470e-03 |
| ## 326 | 2.893764e-03 | -2.891724e-02 | -8.223752e-04 |
| ## 327 | 3.031715e-03 | -2.073467e-03 | 5.635996e-02 |
| ## 328 | -6.618539e-03 | -6.837263e-02 | -2.358155e-02 |
| ## 329 | -7.300316e-03 | 4.294198e-03 | 3.264965e-03 |
| ## 330 | 1.391592e-02 | 1.111123e-02 | -1.098587e-02 |
| ## 331 | -1.644259e-02 | 9.093552e-03 | -2.589529e-02 |
| ## 332 | 2.005710e-02 | -2.954354e-03 | 8.969864e-03 |
| ## 335 | -2.073542e-03 | 9.135585e-03 | -2.427313e-02 |
| ## 336 | -1.188862e-03 | 1.441820e-02 | -2.629235e-02 |
| ## 337 | 1.323034e-02 | 1.206247e-02 | 5.640152e-02 |
| ## 338 | 2.671389e-03 | 1.059797e-02 | -4.568878e-03 |
| ## 339 | -2.186768e-02 | 1.613361e-02 | 9.022979e-03 |
| ## 340 | -6.696573e-02 | 1.894675e-02 | -1.605314e-03 |
| ## 342 | 1.025320e-02 | 9.715686e-03 | 6.171628e-02 |
| ## 343 | -4.974196e-03 | 2.235646e-02 | -1.461940e-02 |
| ## 345 | 1.956935e-02 | 1.731858e-02 | -1.607650e-02 |
| ## 346 | 4.626257e-02 | 2.534159e-03 | -6.574220e-05 |
| ## 347 | 1.491417e-02 | -1.837635e-02 | -6.727985e-03 |
| ## 348 | 1.845264e-02 | 2.662006e-03 | 5.179973e-02 |
| ## 349 | 4.125210e-03 | 2.422819e-02 | -3.305879e-03 |
| ## 350 | -7.825958e-03 | 8.542388e-03 | -1.612098e-02 |
| ## 351 | 3.529345e-04 | -6.745304e-02 | 8.013536e-04 |
| ## 354 | -4.876262e-03 | 8.912491e-03 | 2.822888e-02 |
| ## 355 | 5.460245e-03 | 1.049791e-02 | -1.113737e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 356 | 2.635292e-02 | 1.181719e-02 | -1.853396e-02 |
| ## 357 | -5.462768e-03 | 1.061428e-02 | -7.936546e-03 |
| ## 358 | 5.566594e-05 | 1.103596e-02 | -1.008912e-02 |
| ## 359 | 1.612146e-02 | 1.804574e-02 | 6.073091e-02 |
| ## 361 | -5.829967e-03 | 5.450658e-03 | -1.386231e-02 |
| ## 362 | 3.045476e-02 | 2.047113e-05 | -3.325743e-03 |
| ## 364 | -6.174836e-03 | 8.097572e-03 | 1.138030e-03 |
| ## 365 | -1.072739e-02 | 6.747874e-04 | -8.713181e-03 |
| ## 366 | 1.273819e-02 | 1.069396e-02 | 5.419491e-02 |
| ## 367 | 2.107494e-02 | -6.732038e-02 | -3.282907e-03 |
| ## 368 | -2.180327e-03 | -8.180829e-03 | -3.613266e-03 |
| ## 369 | 4.275422e-02 | -4.278257e-02 | 6.913426e-02 |
| ## 370 | 5.795005e-03 | 6.280561e-03 | -1.140102e-02 |
| ## 373 | 2.458161e-02 | 1.569058e-02 | -5.624209e-03 |
| ## 374 | 1.961955e-02 | -2.058260e-03 | 1.134161e-02 |
| ## 375 | 2.977658e-02 | 1.041853e-02 | -1.734969e-02 |
| ## 376 | 1.373804e-03 | 8.530746e-03 | -1.262223e-02 |
| ## 377 | 1.944455e-02 | 1.160192e-04 | -1.763333e-03 |
| ## 378 | 3.532828e-02 | 9.724622e-03 | 3.253409e-03 |
| ## 380 | 1.322164e-02 | -3.694030e-02 | -1.901413e-02 |
| ## 381 | 2.653507e-02 | 1.211160e-02 | -4.141135e-03 |
| ## 383 | 2.092942e-02 | 5.908361e-02 | -1.846258e-02 |
| ## 384 | 2.728492e-02 | 3.051924e-03 | 3.283280e-02 |
| ## 385 | 6.721589e-03 | 2.954766e-03 | -1.804060e-02 |
| ## 386 | 4.854290e-02 | 1.245102e-02 | 9.066768e-03 |
| ## 387 | -7.508868e-02 | 1.246095e-02 | -1.083554e-02 |
| ## 388 | 2.857605e-02 | -4.695353e-02 | 4.756727e-03 |
| ## 389 | 2.091057e-02 | 1.011061e-02 | -1.178368e-02 |
| ## 392 | -7.518644e-02 | 2.112527e-02 | -1.157090e-02 |
| ## 393 | 6.744555e-03 | 9.116184e-03 | -7.652121e-03 |
| ## 394 | -5.269352e-03 | 4.163729e-03 | -1.096662e-02 |
| ## 395 | -1.284867e-02 | 5.637746e-03 | -1.213342e-02 |
| ## 396 | 1.685191e-02 | 1.309103e-02 | -2.063571e-02 |
| ## 397 | -7.265206e-03 | 6.455539e-03 | -6.703419e-03 |
| ## 399 | 7.592649e-03 | 8.874285e-03 | 5.736583e-02 |
| ## 400 | 8.034129e-03 | -6.873087e-02 | -2.020680e-02 |
| ## 402 | -1.347077e-02 | 1.269104e-02 | 4.892012e-02 |
| ## 403 | -1.230739e-02 | 6.969398e-03 | -2.436248e-02 |
| ## 404 | -6.235595e-03 | 8.133118e-03 | -2.430771e-02 |
| ## 405 | 6.479171e-03 | 1.165170e-02 | 3.078289e-03 |
| ## 406 | 5.300936e-03 | 4.183183e-02 | -3.161628e-03 |
| ## 407 | -1.122423e-02 | -9.848585e-03 | -1.226896e-02 |
| ## 408 | -8.870818e-03 | 1.239643e-02 | -2.267114e-02 |
| ## 411 | -2.076885e-02 | 1.225986e-02 | -3.129505e-03 |
| ## 412 | 1.471844e-02 | 1.115718e-02 | -2.051177e-03 |
| ## 413 | 2.868732e-02 | 9.859022e-03 | -8.025855e-03 |
| ## 414 | 3.710440e-02 | 1.244118e-02 | -4.771962e-03 |
| ## 415 | 6.293113e-03 | -4.971937e-03 | 5.729105e-02 |
| ## 416 | -6.811372e-03 | 2.252864e-03 | -2.220272e-02 |
| ## 418 | 2.266218e-02 | 1.512639e-02 | -5.068865e-03 |
| ## 419 | -6.610401e-03 | 4.946877e-03 | -1.365337e-02 |
| ## 421 | -9.156871e-03 | 1.641855e-02 | -7.285333e-03 |
| ## 422 | -8.802423e-03 | 1.249666e-02 | -2.115440e-02 |
| ## 423 | -2.966330e-03 | 8.397545e-03 | -2.423081e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 424 | 4.848277e-03 | 1.113143e-02 | -2.340053e-02 |
| ## 425 | -6.738104e-03 | 3.520789e-04 | -3.982477e-03 |
| ## 426 | -8.079024e-03 | 1.237929e-02 | -2.958338e-03 |
| ## 427 | 3.419431e-03 | 1.685863e-03 | -1.045925e-02 |
| ## 430 | 5.587230e-03 | 2.233336e-03 | -5.994393e-03 |
| ## 431 | 1.486991e-02 | 9.422826e-03 | -1.132571e-02 |
| ## 432 | 5.235050e-03 | 1.180445e-02 | -1.016346e-02 |
| ## 433 | -1.327915e-02 | 4.618116e-03 | 3.235400e-02 |
| ## 434 | 1.290595e-03 | 9.715418e-03 | 4.513366e-02 |
| ## 435 | 5.811192e-03 | 1.198519e-02 | -1.457577e-02 |
| ## 437 | -1.476144e-03 | 9.098903e-03 | -1.486937e-02 |
| ## 438 | -3.063675e-03 | 1.275123e-02 | -2.302510e-02 |
| ## 440 | 1.663191e-02 | 7.775266e-03 | 1.298146e-03 |
| ## 441 | 2.100754e-02 | -6.726334e-02 | -1.775592e-02 |
| ## 442 | -7.463986e-02 | -6.554174e-02 | -1.631042e-02 |
| ## 443 | -7.854927e-03 | -1.932320e-02 | -1.957704e-02 |
| ## 444 | -2.249599e-03 | 6.422348e-03 | -1.237618e-02 |
| ## 445 | -5.213998e-03 | 2.322386e-02 | -1.895474e-02 |
| ## 446 | -4.463621e-03 | 4.566942e-03 | 3.162621e-02 |
| ## 449 | 6.913371e-03 | 6.804726e-03 | 3.310373e-03 |
| ## 450 | 3.576931e-03 | 2.548106e-03 | -4.944777e-03 |
| ## 451 | -4.547819e-03 | 1.492791e-02 | -1.861362e-02 |
| ## 452 | -4.432520e-03 | -6.074912e-02 | -5.765468e-03 |
| ## 453 | -4.618980e-04 | 7.359726e-03 | 5.006093e-02 |
| ## 454 | 1.479289e-02 | 9.004640e-03 | -1.554927e-02 |
| ## 456 | 2.333903e-02 | 1.256538e-02 | 5.878229e-02 |
| ## 457 | 1.339392e-02 | 8.960332e-03 | -8.439891e-03 |
| ## 459 | 2.027984e-03 | 8.849015e-03 | -3.594455e-03 |
| ## 460 | -6.199407e-03 | 1.591254e-02 | -6.198001e-03 |
| ## 461 | 9.101431e-03 | 9.258704e-03 | -6.640688e-03 |
| ## 462 | -8.040680e-03 | -6.466595e-02 | -2.871561e-02 |
| ## 463 | 8.160512e-03 | -7.003104e-02 | -1.940392e-02 |
| ## 464 | -8.862235e-03 | 1.994547e-02 | -1.446030e-02 |
| ## 465 | -6.618123e-03 | 1.287179e-02 | 5.173256e-02 |
| ## 468 | -1.501988e-02 | -1.295121e-02 | -2.731092e-02 |
| ## 469 | -2.136393e-03 | -5.221287e-04 | 5.163969e-02 |
| ## 470 | 3.250242e-02 | 5.618675e-03 | -3.560624e-03 |
| ## 471 | 3.721966e-02 | 1.284911e-02 | 2.351376e-03 |
| ## 472 | 3.820619e-03 | 1.800403e-02 | -6.206112e-03 |
| ## 473 | -8.607221e-04 | 7.141567e-03 | -7.732602e-03 |
| ## 475 | -4.424293e-03 | 2.064229e-02 | 4.743103e-02 |
| ## 476 | 1.860781e-02 | 8.034907e-03 | -1.081552e-02 |
| ## 478 | -8.220578e-04 | 1.460829e-02 | -2.626778e-02 |
| ## 479 | 7.539634e-03 | -6.414843e-02 | -2.225277e-02 |
| ## 480 | -5.955270e-03 | -4.908530e-02 | -1.313007e-02 |
| ## 481 | 5.249577e-03 | 4.324005e-03 | -4.837623e-03 |
| ## 482 | 1.189823e-03 | -2.247980e-02 | -2.303918e-02 |
| ## 483 | 2.321755e-02 | 1.925574e-03 | 6.211991e-02 |
| ## 484 | -1.149857e-02 | 7.203564e-02 | -1.177470e-02 |
| ## 487 | -2.082018e-02 | -7.903393e-03 | -1.469856e-02 |
| ## 488 | 1.723642e-03 | 4.352011e-03 | -1.249671e-02 |
| ## 489 | 4.734722e-03 | 1.039576e-02 | -1.560063e-02 |
| ## 490 | 7.088509e-03 | 5.712701e-03 | 5.216209e-02 |
| ## 491 | 5.470290e-03 | -6.975334e-02 | -1.286689e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 492 | -1.210868e-02 | 2.935060e-03 | -1.431313e-02 |
| ## 494 | -8.011371e-02 | 1.585467e-02 | -1.883804e-03 |
| ## 495 | -7.738678e-03 | 1.187987e-02 | -2.762929e-02 |
| ## 497 | 3.624812e-03 | -6.755102e-02 | -2.154497e-02 |
| ## 498 | 1.205409e-02 | 1.485220e-02 | -7.450380e-03 |
| ## 499 | 3.181931e-03 | -5.504377e-02 | -9.677986e-03 |
| ## 500 | 2.709296e-02 | 1.115928e-02 | 5.310034e-02 |
| ## 501 | 1.004510e-03 | 1.076549e-02 | -1.231644e-02 |
| ## 502 | 1.407941e-02 | 6.157330e-03 | -7.158429e-03 |
| ## 503 | -7.971898e-02 | 1.253570e-02 | 5.216049e-02 |
| ## 506 | 1.770255e-03 | 8.376084e-03 | -1.248729e-02 |
| ## 507 | -8.611044e-03 | 6.881090e-04 | -7.328798e-03 |
| ## 508 | 6.989926e-03 | 2.940042e-03 | -5.471981e-03 |
| ## 509 | -4.751448e-03 | 9.677394e-03 | -3.163746e-03 |
| ## 510 | 1.107303e-02 | 5.421434e-03 | -2.560204e-03 |
| ## 511 | 1.657321e-03 | 5.475591e-02 | -1.483741e-02 |
| ## 513 | -1.199218e-02 | -3.096695e-02 | 4.839919e-02 |
| ## 514 | -6.483303e-03 | 1.059036e-02 | -1.337365e-02 |
| ## 516 | -9.146216e-03 | 1.055207e-02 | -2.683791e-02 |
| ## 517 | -1.114945e-02 | 3.946710e-04 | 5.524031e-02 |
| ## 518 | 1.937473e-03 | -6.023681e-02 | -2.043784e-02 |
| ## 519 | -7.546597e-02 | 1.547807e-02 | 9.416077e-03 |
| ## 520 | 2.493967e-02 | -1.831352e-02 | -3.305458e-03 |
| ## 521 | -1.929034e-03 | 9.320487e-03 | -2.066901e-02 |
| ## 522 | -3.995301e-02 | 1.088538e-02 | -1.055688e-02 |
| ## 525 | -8.073118e-03 | -2.415109e-02 | -2.431016e-02 |
| ## 526 | 2.693827e-03 | -6.571309e-02 | -2.275720e-02 |
| ## 527 | 1.273758e-02 | 1.479326e-02 | -1.255576e-03 |
| ## 528 | 3.741047e-02 | 1.499956e-02 | -4.488783e-03 |
| ## 529 | -3.825293e-03 | 6.415824e-03 | -1.119376e-02 |
| ## 530 | -2.095167e-03 | -3.120577e-04 | -2.079254e-02 |
| ## 532 | 1.391176e-02 | 7.568767e-03 | -5.467839e-03 |
| ## 533 | 1.275179e-02 | 2.664675e-02 | -8.038652e-03 |
| ## 535 | -6.331672e-03 | 1.637629e-02 | 4.895173e-02 |
| ## 536 | 2.499496e-03 | 2.213475e-02 | -1.352113e-02 |
| ## 537 | 1.033701e-02 | 1.590817e-02 | -1.327153e-02 |
| ## 538 | 9.313311e-03 | 9.325929e-03 | -9.647275e-03 |
| ## 539 | 1.545517e-03 | 1.954574e-02 | 3.917056e-02 |
| ## 540 | -1.713205e-02 | 8.942060e-03 | -1.859445e-02 |
| ## 541 | -7.244067e-03 | -6.107849e-02 | -5.857103e-03 |
| ## 544 | 1.660514e-03 | 4.620329e-03 | -3.539079e-03 |
| ## 545 | 1.786493e-02 | 1.088852e-02 | 2.289477e-03 |
| ## 546 | 1.738391e-02 | 2.192628e-02 | -1.969982e-02 |
| ## 547 | -5.038661e-02 | -2.944900e-03 | 8.892737e-03 |
| ## 548 | 9.418851e-03 | 8.167512e-03 | -2.082777e-02 |
| ## 549 | 1.591492e-02 | 1.168711e-02 | -2.048996e-03 |
| ## 551 | 1.582834e-02 | -6.896251e-02 | -2.130989e-03 |
| ## 552 | 1.365738e-02 | 5.422046e-03 | -1.185987e-02 |
| ## 554 | 1.371856e-02 | 6.922476e-03 | 7.286223e-03 |
| ## 555 | 1.780366e-03 | -7.694516e-03 | 5.213885e-02 |
| ## 556 | 2.342871e-02 | 1.191927e-02 | 6.776808e-03 |
| ## 557 | 1.344702e-02 | 1.289036e-02 | -8.805897e-03 |
| ## 558 | -6.304336e-03 | 9.640020e-03 | -1.582011e-02 |
| ## 559 | -1.037882e-02 | -3.152849e-02 | -1.355241e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 560 | 7.489491e-03 | 2.077104e-02 | -4.192033e-03 |
| ## 563 | 4.087336e-02 | 3.085376e-02 | 6.017052e-03 |
| ## 564 | 4.230882e-04 | 9.397575e-04 | 3.946286e-04 |
| ## 565 | 1.490403e-02 | 1.233525e-02 | -2.141571e-02 |
| ## 566 | 4.355495e-03 | -3.783090e-02 | -1.835154e-02 |
| ## 567 | 8.267755e-04 | -6.744931e-04 | -1.976399e-02 |
| ## 568 | 4.365983e-03 | -2.087855e-03 | -1.796187e-03 |
| ## 570 | -3.582422e-03 | -4.446325e-02 | -6.070744e-03 |
| ## 571 | -8.221729e-03 | 1.152611e-02 | -1.505395e-02 |
| ## 573 | -8.838133e-04 | 1.003371e-02 | 4.720142e-02 |
| ## 574 | 1.421817e-02 | 9.869396e-03 | -2.065331e-02 |
| ## 575 | 2.907425e-03 | -1.974802e-02 | -1.937191e-02 |
| ## 576 | 9.603146e-03 | -6.820521e-03 | -1.262666e-03 |
| ## 577 | -9.332571e-03 | -2.588182e-02 | -1.087213e-02 |
| ## 578 | 9.645339e-03 | -5.273798e-02 | -1.346610e-02 |
| ## 579 | 2.084002e-02 | -6.922501e-02 | -6.710921e-03 |
| ## 582 | -1.338033e-02 | 1.337789e-02 | -2.859237e-02 |
| ## 583 | 1.116331e-03 | 1.119862e-03 | 1.012975e-02 |
| ## 584 | -1.254638e-02 | 3.284104e-03 | -9.775430e-03 |
| ## 585 | -2.015289e-03 | 8.978165e-03 | 4.494169e-02 |
| ## 586 | 3.458110e-02 | 1.150687e-02 | 5.466528e-02 |
| ## 587 | -3.163367e-03 | 9.853756e-03 | -9.217559e-03 |
| ## 589 | -5.650658e-03 | -3.681736e-03 | 5.003944e-02 |
| ## 590 | -3.706322e-03 | -6.743230e-02 | -8.774425e-03 |
| ## 592 | 2.139364e-02 | 1.200452e-02 | 3.275067e-03 |
| ## 593 | -3.603597e-03 | -2.042626e-03 | -1.964623e-02 |
| ## 594 | 1.060380e-02 | 1.750624e-02 | -1.210887e-02 |
| ## 595 | 1.562513e-02 | 1.191521e-02 | 2.149993e-03 |
| ## 596 | -1.277854e-02 | 1.145097e-02 | 4.081462e-03 |
| ## 597 | -1.328037e-02 | -3.046060e-03 | -6.750315e-03 |
| ## 598 | -4.098576e-03 | 1.611291e-02 | 5.439625e-02 |
| ## 601 | 1.139993e-02 | -4.096404e-02 | -4.437222e-03 |
| ## 602 | 2.347440e-02 | -8.741349e-03 | -9.979861e-04 |
| ## 603 | -1.629350e-02 | 1.334797e-02 | -1.018917e-02 |
| ## 604 | -7.582887e-02 | 1.417855e-02 | -1.393915e-02 |
| ## 605 | -7.330163e-04 | 7.093715e-03 | -6.911193e-03 |
| ## 606 | 2.553843e-02 | 1.272149e-02 | 4.117594e-03 |
| ## 608 | -2.501682e-03 | 1.174777e-02 | -2.344261e-02 |
| ## 609 | 4.263182e-03 | 2.418109e-02 | 2.506786e-03 |
| ## 611 | -3.002075e-03 | 1.363691e-02 | -3.538318e-03 |
| ## 612 | 5.847240e-03 | -6.867711e-02 | 2.778152e-03 |
| ## 613 | 9.332884e-03 | 8.831712e-03 | -1.527050e-02 |
| ## 614 | 2.218247e-02 | 1.729804e-03 | 4.851193e-02 |
| ## 615 | 1.509979e-02 | -6.338623e-02 | -4.806558e-03 |
| ## 616 | -5.876483e-02 | 1.145501e-02 | -1.199204e-02 |
| ## 617 | -1.969124e-02 | -3.212517e-02 | -2.552544e-02 |
| ## 620 | 2.796611e-03 | -3.867080e-02 | -9.182167e-03 |
| ## 621 | 2.158640e-02 | -8.640385e-04 | 6.180681e-02 |
| ## 622 | 6.286015e-03 | 1.808457e-02 | 3.674309e-02 |
| ## 623 | 4.610428e-03 | -1.061534e-02 | -6.480126e-04 |
| ## 624 | -8.931525e-03 | -6.917225e-02 | -2.385660e-02 |
| ## 625 | 4.319761e-02 | -3.260379e-02 | 9.167957e-03 |
| ## 627 | -8.103772e-03 | 7.700271e-03 | -2.459397e-02 |
| ## 628 | -5.108640e-02 | 1.953965e-02 | 3.575063e-03 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 630 | -3.036954e-03 | 6.201776e-03 | 2.919817e-02 |
| ## 631 | 3.018469e-02 | 1.331733e-02 | -1.029361e-02 |
| ## 632 | -5.956773e-03 | 2.362036e-02 | -1.123297e-02 |
| ## 633 | 1.988219e-02 | 8.205945e-03 | -1.645232e-02 |
| ## 634 | 3.250665e-02 | -1.755746e-03 | -1.074641e-02 |
| ## 635 | -7.745368e-03 | -1.760222e-02 | -2.101507e-02 |
| ## 636 | 1.752565e-02 | 1.480174e-02 | -2.168505e-02 |
| ## 639 | 2.115457e-05 | 1.870999e-02 | -1.263970e-02 |
| ## 640 | 1.349619e-02 | 5.752199e-03 | -5.167833e-03 |
| ## 641 | 9.588878e-04 | 1.240978e-02 | 7.395673e-03 |
| ## 642 | -5.904474e-03 | -5.258958e-02 | -1.154145e-02 |
| ## 643 | 1.805156e-02 | -1.551556e-02 | -4.604164e-04 |
| ## 644 | 2.092936e-02 | 1.663579e-02 | -1.182230e-02 |
| ## 646 | 1.852362e-02 | 1.325318e-02 | -2.403068e-04 |
| ## 647 | 4.529832e-03 | 1.569582e-02 | -7.794621e-03 |
| ## 649 | 3.767349e-03 | -9.577115e-03 | -1.128362e-02 |
| ## 650 | -7.962771e-03 | 1.002869e-02 | -2.609821e-02 |
| ## 651 | 1.312977e-04 | 8.481167e-03 | 2.530057e-02 |
| ## 652 | -5.710960e-03 | 1.626042e-02 | -2.443509e-02 |
| ## 653 | 1.076219e-02 | 1.396823e-02 | -2.321403e-02 |
| ## 654 | 3.326866e-02 | 4.901417e-03 | -1.417590e-02 |
| ## 655 | 4.641382e-03 | 8.737027e-03 | -2.020451e-02 |
| ## 658 | 1.214396e-02 | 9.672837e-03 | 3.968414e-02 |
| ## 659 | -1.430017e-02 | 8.858075e-03 | -2.698567e-02 |
| ## 660 | -5.075727e-03 | -3.427662e-02 | -1.205386e-02 |
| ## 661 | 2.499786e-02 | 2.458437e-02 | 8.753333e-03 |
| ## 662 | 4.894426e-03 | 5.442435e-03 | 1.914266e-04 |
| ## 663 | -1.798533e-03 | -3.215278e-03 | 5.046171e-02 |
| ## 665 | -8.131712e-03 | 1.464180e-02 | 4.731983e-02 |
| ## 666 | 1.868227e-02 | 1.133441e-02 | -1.014954e-03 |
| ## 668 | 1.129223e-02 | 1.033956e-02 | -2.290705e-03 |
| ## 669 | 1.057059e-02 | 8.889164e-03 | -1.501183e-02 |
| ## 670 | 1.013856e-02 | 1.314635e-02 | 4.692402e-02 |
| ## 671 | 1.686549e-03 | 3.638509e-03 | -1.119016e-02 |
| ## 672 | 3.476371e-03 | -5.913451e-02 | -2.097550e-02 |
| ## 673 | 1.455132e-02 | 1.638313e-02 | -1.192810e-02 |
| ## 674 | 2.298730e-02 | 1.601363e-02 | -1.719991e-03 |
| ## 677 | 3.446635e-02 | 1.115541e-02 | 5.474547e-02 |
| ## 678 | 1.664286e-02 | 8.627766e-03 | -7.802974e-03 |
| ## 679 | -4.135011e-02 | 1.080093e-02 | 3.459076e-03 |
| ## 680 | -8.418587e-02 | 1.632813e-02 | -8.786329e-03 |
| ## 681 | 1.043400e-03 | -4.899627e-04 | -6.166612e-03 |
| ## 682 | 9.158221e-03 | 1.225326e-02 | 5.571449e-02 |
| ## 684 | 1.372113e-02 | 1.223555e-02 | 4.951676e-02 |
| ## 685 | 1.742732e-03 | 1.475493e-02 | -2.708672e-02 |
| ## 687 | -5.642448e-03 | 1.291099e-02 | -2.095796e-02 |
| ## 688 | -7.432636e-03 | -5.995463e-02 | -1.016420e-02 |
| ## 689 | -1.539440e-03 | 9.355815e-03 | -2.390695e-02 |
| ## 690 | -1.336415e-02 | 1.250220e-02 | -2.815200e-02 |
| ## 691 | -9.990731e-03 | 8.017300e-03 | -1.682901e-02 |
| ## 692 | -1.482877e-04 | 1.201984e-02 | -1.331835e-02 |
| ## 693 | 1.187423e-02 | -6.048941e-02 | -1.686787e-02 |
| ## 696 | -1.854889e-02 | 3.123572e-03 | -1.209885e-02 |
| ## 697 | 3.281838e-03 | 3.172864e-03 | -1.231568e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 698 | 1.716170e-02 | 1.178109e-02 | -1.046379e-02 |
| ## 699 | 1.571699e-02 | 1.596856e-02 | -1.835608e-02 |
| ## 700 | 7.741283e-03 | -3.168166e-03 | -1.726061e-02 |
| ## 701 | -7.601723e-04 | 1.461116e-02 | -2.625484e-02 |
| ## 703 | 2.336387e-02 | -1.606146e-02 | -7.780120e-03 |
| ## 704 | 3.539559e-03 | -5.566381e-02 | -1.181920e-02 |
| ## 706 | -7.774820e-02 | 1.288907e-02 | 1.439388e-03 |
| ## 707 | 3.232389e-03 | 1.316224e-02 | 4.723907e-02 |
| ## 708 | -1.815232e-03 | -1.047948e-02 | -5.100577e-03 |
| ## 709 | -6.594143e-02 | 1.812066e-02 | -1.990138e-02 |
| ## 710 | 3.737845e-03 | 1.106007e-02 | 5.618684e-02 |
| ## 711 | -8.440503e-02 | 2.091668e-02 | -1.644848e-03 |
| ## 712 | 2.291246e-02 | 8.781099e-03 | -7.561326e-03 |
| ## 715 | 2.636857e-02 | 3.311457e-02 | 1.201051e-02 |
| ## 716 | 5.215587e-04 | -6.899280e-02 | -2.646491e-03 |
| ## 717 | -4.832947e-03 | -6.354109e-04 | 6.056968e-03 |
| ## 718 | -6.458107e-03 | 1.299583e-02 | -2.676080e-02 |
| ## 719 | -1.394183e-02 | 1.342982e-02 | -2.924769e-02 |
| ## 720 | -8.501257e-03 | 1.126358e-03 | -8.446729e-03 |
| ## 722 | 1.092648e-02 | -6.198678e-02 | -1.839903e-02 |
| ## 723 | 4.037037e-03 | 1.599942e-02 | -1.881209e-02 |
| ## 725 | -7.861307e-02 | 1.924165e-02 | -1.014305e-02 |
| ## 726 | -4.256302e-03 | 7.027391e-03 | -2.182616e-02 |
| ## 727 | -9.973861e-03 | 1.591417e-02 | -1.875193e-02 |
| ## 728 | 1.367886e-02 | 1.657055e-02 | -1.990693e-02 |
| ## 729 | 1.784529e-02 | 9.206338e-03 | 7.888143e-03 |
| ## 730 | 8.348635e-04 | 5.569419e-03 | -5.589188e-03 |
| ## 731 | -3.550691e-02 | -6.419377e-02 | 1.982989e-02 |
| ## 734 | 8.023084e-03 | 1.319363e-02 | 4.778478e-02 |
| ## 735 | 9.162306e-03 | 2.094173e-02 | 3.510861e-03 |
| ## 736 | -1.365008e-02 | 1.123424e-02 | -8.514770e-03 |
| ## 737 | 2.617306e-02 | 1.671419e-02 | 5.401422e-02 |
| ## 738 | 2.068414e-02 | 9.404736e-03 | 9.763259e-03 |
| ## 739 | -6.351517e-02 | 1.121127e-02 | -1.334639e-02 |
| ## 741 | -5.321782e-03 | -4.908492e-02 | -7.833592e-03 |
| ## 742 | 2.806217e-02 | -1.152968e-02 | -9.766731e-03 |
| ## 744 | -8.408570e-02 | 7.651434e-03 | 1.046464e-03 |
| ## 745 | -1.985151e-02 | -5.365322e-04 | -2.225088e-02 |
| ## 746 | -5.815103e-03 | 1.185294e-02 | 4.347796e-02 |
| ## 747 | -5.867397e-03 | 1.009617e-02 | 4.763211e-02 |
| ## 748 | -6.483666e-03 | 8.431835e-04 | -1.536124e-02 |
| ## 749 | -9.030535e-03 | -6.858975e-03 | -9.199444e-03 |
| ## 750 | -1.895977e-02 | 7.117252e-03 | 4.698931e-02 |
| ## 753 | 1.421866e-02 | 9.840380e-03 | -1.717898e-02 |
| ## 754 | 1.250799e-02 | -6.648928e-03 | -3.446493e-03 |
| ## 755 | -7.871569e-04 | 5.087562e-03 | -4.776756e-03 |
| ## 756 | -5.639161e-03 | 7.220177e-03 | -2.293795e-02 |
| ## 757 | -4.120931e-03 | 1.043502e-02 | -1.191567e-02 |
| ## 758 | -1.656271e-02 | 9.724341e-03 | -1.516297e-02 |
| ## 760 | 3.840660e-02 | 1.480642e-02 | 6.417675e-04 |
| ## 761 | 2.423172e-03 | 1.240518e-02 | -1.545220e-02 |
| ## 763 | -1.735410e-03 | 9.681882e-03 | 5.546741e-02 |
| ## 764 | 1.011449e-02 | -1.012424e-02 | -1.633806e-02 |
| ## 765 | -8.350044e-03 | 5.670958e-03 | -1.078550e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 766 | -1.052727e-02 | 1.705255e-02 | -2.740479e-03 |
| ## 767 | 1.775787e-02 | -6.515323e-02 | 5.198258e-02 |
| ## 768 | -8.511990e-04 | 1.227640e-02 | -2.085732e-02 |
| ## 769 | 8.949993e-03 | 5.296350e-03 | -1.577719e-02 |
| ## 772 | -4.139688e-03 | 5.393639e-03 | -8.887086e-03 |
| ## 773 | 1.311655e-02 | 9.745878e-03 | 3.866923e-03 |
| ## 774 | 1.535283e-02 | 8.022023e-03 | -1.250980e-02 |
| ## 775 | -1.028733e-02 | -2.268831e-03 | -8.289715e-03 |
| ## 776 | -4.116855e-03 | 6.712828e-03 | -1.387145e-02 |
| ## 777 | 3.501283e-02 | -4.615660e-02 | -7.412579e-03 |
| ## 779 | 1.865391e-02 | 7.598720e-03 | -3.464286e-04 |
| ## 780 | -7.540973e-03 | 1.332982e-02 | -1.612051e-02 |
| ## 782 | 1.254136e-02 | 6.589254e-03 | -6.356920e-03 |
| ## 783 | 1.175447e-02 | 8.732820e-03 | 5.194920e-02 |
| ## 784 | -3.757919e-03 | 7.758487e-03 | 3.793928e-02 |
| ## 785 | -5.248780e-03 | 1.448856e-02 | -8.253648e-03 |
| ## 786 | 8.797045e-03 | -8.262274e-03 | -1.208234e-02 |
| ## 787 | 3.918565e-03 | -6.234562e-02 | -6.552010e-03 |
| ## 788 | 3.289941e-02 | -6.581020e-04 | -1.318627e-02 |
| ## 791 | 3.904232e-03 | 1.312182e-02 | -8.056787e-03 |
| ## 792 | -9.165618e-02 | 4.352624e-04 | -8.392177e-04 |
| ## 793 | 3.244732e-02 | 9.373416e-03 | -7.391800e-03 |
| ## 794 | 9.348276e-03 | -7.107447e-02 | -4.384257e-03 |
| ## 795 | -8.857608e-04 | 8.518410e-03 | 5.670492e-02 |
| ## 796 | -1.105691e-02 | -2.342983e-02 | -7.380020e-03 |
| ## 798 | -1.754483e-02 | -1.225825e-02 | 5.057452e-02 |
| ## 799 | 2.074518e-04 | 1.684683e-02 | -1.745099e-02 |
| ## 801 | 1.241710e-02 | 1.784861e-02 | -8.489737e-03 |
| ## 802 | 5.077150e-03 | 8.752827e-03 | -2.235535e-02 |
| ## 803 | 2.248799e-02 | -5.553478e-02 | -1.683515e-02 |
| ## 804 | 2.568704e-02 | 1.425232e-02 | -1.891755e-02 |
| ## 805 | -1.112186e-02 | 1.559556e-02 | 4.625827e-02 |
| ## 806 | 2.097841e-03 | 8.817935e-03 | -1.110314e-02 |
| ## 807 | 2.028125e-02 | -6.424906e-02 | -3.294204e-03 |
| ## 810 | -8.701360e-04 | 4.860686e-03 | 3.171786e-02 |
| ## 811 | -1.641911e-03 | 7.167710e-03 | 5.248266e-04 |
| ## 812 | 5.841089e-03 | 1.701586e-02 | -2.847836e-02 |
| ## 813 | 1.746700e-02 | 2.889196e-03 | -6.421432e-03 |
| ## 814 | 1.929164e-03 | 1.713010e-02 | -1.601914e-02 |
| ## 815 | -1.028489e-02 | 5.992856e-03 | -2.363326e-02 |
| ## 817 | 1.125013e-02 | -6.314455e-02 | -2.200591e-02 |
| ## 818 | -4.124490e-03 | 1.674524e-02 | 1.524983e-02 |
| ## 820 | 8.908166e-03 | 1.419220e-02 | -1.503032e-02 |
| ## 821 | 1.628525e-02 | 7.861613e-03 | -1.785961e-02 |
| ## 822 | -2.959799e-03 | 1.308640e-02 | 5.258873e-02 |
| ## 823 | 1.123223e-02 | -6.523866e-02 | -1.060939e-02 |
| ## 824 | -3.382325e-03 | -1.390206e-02 | -5.365951e-03 |
| ## 825 | 6.113761e-03 | -6.795468e-02 | -2.086855e-02 |
| ## 826 | -7.946002e-02 | 4.012023e-03 | -1.769805e-02 |
| ## 829 | 1.803696e-02 | 1.406590e-02 | -4.296675e-03 |
| ## 830 | 7.141304e-03 | 6.473843e-03 | -6.975512e-03 |
| ## 831 | -8.632134e-02 | 6.999501e-03 | 5.230189e-02 |
| ## 832 | -8.508809e-03 | -6.826696e-02 | -8.149904e-03 |
| ## 833 | -8.322734e-02 | -2.492529e-02 | -1.101775e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 834 | -8.164724e-02 | 1.380815e-02 | 5.089610e-02 |
| ## 836 | 1.230334e-02 | 1.612806e-02 | 2.642798e-03 |
| ## 837 | -7.238884e-03 | 8.262809e-03 | -1.335463e-02 |
| ## 839 | 4.208180e-03 | 6.021930e-03 | -2.134381e-02 |
| ## 840 | 7.502296e-03 | 9.211527e-03 | -2.195269e-02 |
| ## 841 | -6.420031e-03 | 7.699954e-03 | 4.666942e-02 |
| ## 842 | -1.639384e-03 | -2.698889e-02 | 5.285103e-02 |
| ## 843 | 1.367945e-02 | 9.009404e-03 | -8.578546e-03 |
| ## 844 | -3.700798e-03 | 5.954263e-03 | -1.858958e-02 |
| ## 845 | -1.003189e-02 | -6.948025e-02 | -1.379557e-02 |
| ## 848 | 2.410930e-03 | -6.879404e-03 | 6.818968e-03 |
| ## 849 | 1.892346e-02 | 1.432646e-02 | -8.441591e-03 |
| ## 850 | -5.995940e-03 | 9.555909e-03 | 3.755973e-02 |
| ## 851 | 5.742843e-03 | 6.896026e-03 | 3.619396e-02 |
| ## 852 | -7.415680e-03 | 1.308210e-02 | -2.162220e-02 |
| ## 853 | -1.209622e-02 | 9.546689e-03 | -2.300223e-02 |
| ## 855 | 1.216948e-02 | 1.233659e-02 | -2.213091e-02 |
| ## 856 | -1.221912e-03 | -7.253159e-03 | -3.653088e-03 |
| ## 858 | 1.026302e-02 | 1.315851e-02 | -3.829516e-03 |
| ## 859 | 2.098850e-02 | 5.218584e-03 | -6.090182e-03 |
| ## 860 | 1.392295e-02 | -6.724607e-02 | 5.193061e-02 |
| ## 861 | -7.674604e-02 | 9.866522e-03 | 6.123045e-02 |
| ## 862 | 1.486167e-04 | 3.252203e-03 | -1.421996e-02 |
| ## 863 | 3.293160e-03 | 8.804231e-03 | -1.049663e-02 |
| ## 864 | -7.058767e-03 | 9.964558e-03 | -1.531726e-02 |
| ## 867 | 3.201419e-03 | 1.138080e-02 | -1.668859e-02 |
| ## 868 | 8.654885e-03 | 4.777232e-03 | -9.636289e-03 |
| ## 869 | -8.689682e-02 | 4.302932e-05 | -1.683507e-03 |
| ## 870 | -1.238567e-02 | 1.309107e-02 | -1.779997e-02 |
| ## 871 | -7.697311e-03 | 3.910240e-03 | 4.448155e-02 |
| ## 872 | 1.097154e-02 | 1.234612e-02 | -6.410873e-03 |
| ## 874 | 1.782133e-02 | 1.210970e-02 | 1.137039e-03 |
| ## 875 | 2.678060e-02 | 9.871116e-03 | -4.472786e-03 |
| ## 877 | 1.054568e-02 | 7.190233e-03 | -4.334919e-03 |
| ## 878 | 9.865556e-03 | -1.510741e-02 | 4.159512e-02 |
| ## 879 | 1.241069e-03 | 6.051342e-03 | 3.784480e-02 |
| ## 880 | -8.387739e-04 | -1.972438e-02 | 4.674116e-02 |
| ## 881 | 1.093110e-02 | 7.847756e-04 | -7.776767e-03 |
| ## 882 | 2.171105e-02 | 1.915261e-02 | 3.212227e-03 |
| ## 883 | 1.790166e-02 | -3.381576e-02 | -9.158322e-03 |
| ## 886 | 2.451595e-02 | 1.337741e-02 | 3.519012e-03 |
| ## 887 | -6.636173e-02 | 8.114136e-03 | 2.965062e-03 |
| ## 888 | 9.623619e-03 | -5.808610e-03 | -1.653973e-02 |
| ## 889 | 1.893467e-02 | 1.648084e-02 | -4.723571e-03 |
| ## 890 | -3.517362e-03 | 9.033910e-03 | -2.332095e-02 |
| ## 891 | 6.333598e-03 | 2.093208e-02 | 6.931263e-03 |
| ## 893 | 2.988244e-03 | 1.425868e-02 | -7.564100e-03 |
| ## 894 | -3.063365e-03 | 7.340824e-03 | -7.969147e-03 |
| ## 896 | 8.860702e-03 | 8.701903e-03 | -9.079786e-03 |
| ## 897 | -3.598166e-03 | -6.516949e-03 | -1.346964e-02 |
| ## 898 | 1.506892e-02 | 7.411735e-03 | -3.455682e-03 |
| ## 899 | -2.168849e-04 | -6.921844e-02 | -1.382205e-02 |
| ## 900 | 1.411328e-02 | 1.553984e-03 | -1.760814e-02 |
| ## 901 | 7.430998e-03 | 1.693647e-02 | -1.588862e-02 |

| | | | |
|--------|---------------|---------------|---------------|
| ## 902 | -5.222902e-03 | 9.313104e-03 | -2.482045e-02 |
| ## 905 | -1.684591e-02 | 1.531767e-02 | -9.634259e-03 |
| ## 906 | 1.296266e-03 | 1.184057e-02 | 5.563498e-02 |
| ## 907 | 2.216961e-03 | 9.875927e-03 | 5.804882e-02 |
| ## 908 | -6.214465e-03 | 8.190546e-03 | -1.709987e-02 |
| ## 909 | 2.794013e-02 | 8.250740e-03 | 3.493808e-03 |
| ## 910 | 1.632984e-02 | 1.206696e-02 | -1.390176e-02 |
| ## 912 | 1.122822e-02 | 1.134464e-02 | -1.454352e-02 |
| ## 913 | 2.209187e-02 | 1.594496e-02 | -2.414940e-02 |
| ## 915 | 2.492685e-02 | 1.363214e-02 | -1.984965e-02 |
| ## 916 | 9.664102e-03 | -5.540665e-03 | -1.723773e-03 |
| ## 917 | -6.326273e-03 | 1.515794e-02 | -1.321960e-02 |
| ## 918 | -1.162245e-02 | -7.092657e-02 | 5.466821e-02 |
| ## 919 | -3.560042e-03 | 1.327935e-02 | 5.084765e-02 |
| ## 920 | -2.511015e-03 | 8.635546e-03 | -1.349908e-02 |
| ## 921 | 1.226106e-02 | 1.047081e-02 | -2.127066e-02 |
| ## 924 | 1.230151e-03 | -6.783654e-02 | -9.274527e-03 |
| ## 925 | 8.004447e-03 | 1.794793e-02 | 4.271647e-02 |
| ## 926 | 1.655632e-02 | 8.498820e-03 | -1.933611e-02 |
| ## 927 | 4.453665e-02 | 1.009269e-02 | -5.692478e-03 |
| ## 928 | 1.305120e-02 | 1.277250e-02 | -8.353866e-03 |
| ## 929 | 6.982752e-03 | 4.302102e-04 | -1.371674e-03 |
| ## 931 | 4.112795e-03 | 1.009258e-02 | -2.297356e-02 |
| ## 932 | 2.749833e-04 | 8.502501e-03 | -1.416558e-02 |
| ## 934 | -1.319198e-03 | 1.499453e-02 | -3.165538e-03 |
| ## 935 | -8.084885e-03 | 1.369495e-02 | 5.340581e-02 |
| ## 936 | -9.199617e-03 | 1.911905e-02 | 4.256529e-02 |
| ## 937 | -1.464301e-02 | 7.396731e-03 | 4.531070e-02 |
| ## 938 | -2.203497e-04 | 1.073951e-02 | -1.311989e-02 |
| ## 939 | 3.807247e-03 | 7.292843e-03 | -1.462088e-02 |
| ## 940 | -5.275407e-03 | 1.108002e-02 | 4.438752e-02 |
| ## 943 | -1.327518e-02 | -9.292076e-03 | -2.548077e-02 |
| ## 944 | -3.714236e-03 | 2.058683e-03 | -1.050952e-02 |
| ## 945 | -2.266029e-03 | -5.239168e-03 | -9.965588e-03 |
| ## 946 | -2.850647e-03 | 8.948821e-03 | -2.407681e-02 |
| ## 947 | -1.030049e-02 | -3.924586e-03 | -1.116777e-02 |
| ## 948 | -1.332138e-03 | -6.182843e-02 | 4.712425e-02 |
| ## 950 | 6.626179e-03 | -5.531685e-02 | 3.882219e-02 |
| ## 951 | -7.232753e-03 | 2.196901e-02 | -9.422378e-03 |
| ## 953 | -7.649351e-02 | 1.745054e-02 | -4.820835e-03 |
| ## 954 | 1.710303e-02 | 1.666363e-02 | 3.129481e-04 |
| ## 955 | 1.725853e-02 | 7.580168e-03 | -8.605673e-03 |
| ## 956 | 1.497235e-02 | 8.685489e-03 | -7.206525e-03 |
| ## 957 | 1.983845e-03 | 4.253902e-03 | -6.486139e-03 |
| ## 958 | 1.972100e-02 | -6.147772e-02 | 9.635802e-03 |
| ## 959 | -1.330019e-02 | -6.881143e-02 | -1.483065e-02 |
| ## 962 | 7.031605e-03 | 1.443127e-02 | -1.421058e-02 |
| ## 963 | -9.254886e-03 | -1.172284e-02 | -5.979780e-03 |
| ## 964 | 1.249941e-03 | 9.786627e-03 | -2.351978e-02 |
| ## 965 | 1.298387e-02 | 9.790099e-03 | -2.040249e-02 |
| ## 966 | 2.446877e-03 | 3.448153e-03 | -1.102926e-02 |
| ## 967 | -5.921861e-02 | 1.013390e-02 | -1.025618e-02 |
| ## 969 | 1.901276e-02 | -3.274202e-03 | -2.980305e-03 |
| ## 970 | -8.826939e-02 | -4.975945e-02 | -1.386017e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 972 | 1.740946e-03 | 8.767932e-03 | -6.312284e-03 |
| ## 973 | -7.028504e-02 | 1.397517e-02 | -1.307976e-02 |
| ## 974 | 1.293273e-02 | 1.046588e-02 | -1.245494e-02 |
| ## 975 | -1.809160e-02 | 1.136544e-01 | -1.209675e-02 |
| ## 976 | 6.641326e-04 | 1.625454e-02 | 5.607374e-02 |
| ## 977 | -4.430265e-03 | 1.662900e-02 | -1.470817e-03 |
| ## 978 | 4.581761e-03 | 1.354661e-02 | 5.528978e-02 |
| ## 981 | -8.115212e-02 | -1.190801e-03 | -2.587332e-03 |
| ## 982 | -9.015884e-03 | 4.246313e-03 | -2.369737e-02 |
| ## 983 | 1.640741e-02 | 8.664973e-03 | -1.941932e-02 |
| ## 984 | 9.574861e-03 | 8.520883e-03 | 5.037197e-02 |
| ## 985 | 8.623953e-03 | 7.204104e-03 | -6.439262e-04 |
| ## 986 | 8.606951e-03 | 9.764198e-03 | 1.615989e-03 |
| ## 988 | 1.973348e-02 | 1.170817e-02 | -1.549692e-02 |
| ## 989 | 1.858240e-02 | -6.772204e-02 | 5.311272e-02 |
| ## 991 | 1.572212e-02 | -6.114002e-02 | 4.679267e-02 |
| ## 992 | -2.021106e-03 | 1.070595e-02 | 5.511604e-02 |
| ## 993 | 1.746480e-02 | 5.137136e-03 | -1.684612e-02 |
| ## 994 | 1.789486e-03 | 6.819666e-03 | -9.694211e-03 |
| ## 995 | -1.073451e-02 | 8.207692e-03 | -1.308398e-02 |
| ## 996 | -1.010801e-02 | 5.357398e-03 | 4.693557e-02 |
| ## 997 | 7.170945e-03 | 9.231631e-03 | 3.909176e-02 |
| ## 1000 | 7.019372e-03 | 3.829968e-03 | -8.798840e-03 |
| ## 1001 | 5.912507e-03 | 8.061200e-03 | -1.435713e-02 |
| ## 1002 | -3.165412e-03 | 9.929113e-03 | -1.492535e-02 |
| ## 1003 | -9.626774e-03 | 1.512513e-02 | -3.287789e-02 |
| ## 1004 | -1.721250e-03 | 1.832933e-02 | -1.314130e-02 |
| ## 1005 | 1.063332e-02 | -6.861022e-02 | -1.966359e-02 |
| ## 1007 | 4.664062e-03 | -6.389638e-02 | -1.095405e-02 |
| ## 1008 | -6.040921e-03 | 7.796025e-03 | -2.416286e-02 |
| ## 1010 | -1.513639e-02 | 1.706729e-02 | 2.113626e-03 |
| ## 1011 | -7.309227e-02 | 1.234445e-02 | -1.690872e-03 |
| ## 1012 | -5.197672e-03 | -1.451440e-02 | 5.898241e-02 |
| ## 1013 | -2.147280e-02 | -3.636519e-04 | -1.417188e-02 |
| ## 1014 | -9.974338e-03 | -7.060613e-03 | 5.510130e-02 |
| ## 1015 | 1.687181e-02 | -6.924817e-02 | -4.700532e-03 |
| ## 1016 | -2.046750e-02 | 6.724612e-03 | -1.332711e-02 |
| ## 1019 | -8.014734e-02 | 1.089807e-02 | 6.699865e-02 |
| ## 1020 | 4.391738e-03 | 5.909583e-03 | -1.399340e-02 |
| ## 1021 | -8.522931e-03 | -3.133913e-03 | -2.158318e-02 |
| ## 1022 | 3.301424e-02 | 1.387605e-02 | 4.478199e-05 |
| ## 1023 | -6.753082e-03 | 9.933035e-03 | -1.262976e-02 |
| ## 1024 | -6.942312e-02 | 1.319204e-03 | -6.419765e-03 |
| ## 1026 | 5.045025e-03 | 8.622464e-03 | -1.946385e-03 |
| ## 1027 | -1.119572e-03 | -3.015743e-02 | -5.019497e-03 |
| ## 1029 | -3.960348e-03 | 1.860608e-02 | -1.210249e-02 |
| ## 1030 | -5.391518e-03 | 3.020551e-03 | 4.803095e-02 |
| ## 1031 | -7.469278e-03 | -6.993936e-02 | -1.136365e-02 |
| ## 1032 | -8.502815e-03 | 7.162554e-03 | -2.452111e-02 |
| ## 1033 | 1.027731e-03 | 5.668861e-03 | 3.341092e-02 |
| ## 1034 | 1.549293e-02 | 9.518387e-03 | -1.804362e-02 |
| ## 1035 | -1.201443e-02 | -8.090744e-06 | 4.845860e-02 |
| ## 1038 | -1.133706e-02 | 3.060086e-03 | -2.141665e-02 |
| ## 1039 | -6.237392e-03 | 2.022117e-02 | -9.677668e-03 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1040 | 4.663621e-03 | 6.593158e-03 | -2.155455e-02 |
| ## 1041 | -1.802827e-03 | 6.382980e-03 | -2.028299e-02 |
| ## 1042 | -7.586575e-03 | 1.664547e-03 | -1.796775e-03 |
| ## 1043 | 5.222496e-03 | 1.418085e-02 | -2.420661e-04 |
| ## 1045 | -7.124420e-03 | 3.621089e-03 | -1.574494e-02 |
| ## 1046 | -4.897582e-03 | 1.509456e-02 | -2.014124e-03 |
| ## 1048 | 5.728412e-02 | 1.126297e-02 | 7.685683e-03 |
| ## 1049 | 2.429311e-02 | 1.208805e-02 | -3.189829e-03 |
| ## 1050 | 6.519277e-04 | 6.604930e-03 | 4.851554e-02 |
| ## 1051 | 2.962538e-02 | 9.916289e-03 | 1.950903e-04 |
| ## 1052 | -6.109899e-03 | -6.660764e-02 | -1.416906e-02 |
| ## 1053 | -4.970551e-03 | 1.244639e-02 | -8.530095e-03 |
| ## 1054 | 6.627064e-03 | -4.856662e-02 | -9.798844e-03 |
| ## 1057 | -4.599538e-03 | 9.168975e-03 | -2.463809e-02 |
| ## 1058 | 4.121917e-02 | 1.686129e-02 | -1.590041e-03 |
| ## 1059 | 2.360738e-02 | 1.017453e-02 | -9.603841e-03 |
| ## 1060 | -6.840952e-02 | 1.996848e-02 | 3.360734e-03 |
| ## 1061 | 7.803453e-05 | 2.987426e-03 | -6.732169e-03 |
| ## 1062 | -2.336504e-04 | 1.627726e-02 | 4.775826e-02 |
| ## 1064 | -4.867936e-03 | 9.453962e-03 | 5.672120e-02 |
| ## 1065 | 5.866371e-03 | -4.177479e-03 | -1.197773e-02 |
| ## 1067 | 3.562152e-02 | 2.186959e-02 | -3.610266e-03 |
| ## 1068 | 1.557725e-02 | 6.910206e-03 | -6.657068e-03 |
| ## 1069 | 2.171767e-02 | -5.170267e-02 | -2.597439e-03 |
| ## 1070 | 3.406828e-03 | -6.497942e-02 | -4.045967e-03 |
| ## 1071 | -1.364387e-02 | 1.322481e-02 | -1.214956e-02 |
| ## 1072 | -8.285077e-03 | 5.443474e-03 | -2.943645e-03 |
| ## 1073 | 3.080286e-03 | -8.784528e-03 | 7.840563e-03 |
| ## 1076 | -3.190280e-03 | -2.072531e-02 | -1.099800e-02 |
| ## 1077 | -9.284933e-03 | 2.349279e-02 | 4.104289e-02 |
| ## 1078 | 2.192586e-02 | 7.600074e-03 | -1.408160e-02 |
| ## 1079 | 3.092810e-02 | 2.216056e-02 | -4.167454e-03 |
| ## 1080 | 1.707584e-02 | 8.790592e-03 | -1.969150e-02 |
| ## 1081 | -6.842445e-03 | 1.355363e-02 | -1.979396e-02 |
| ## 1083 | -8.202293e-02 | 9.392066e-03 | -1.829500e-02 |
| ## 1084 | 2.127468e-03 | 1.047148e-02 | -1.197759e-02 |
| ## 1086 | 4.900039e-03 | 5.430617e-03 | -1.882139e-02 |
| ## 1087 | 2.940998e-03 | 1.016312e-02 | -1.170340e-02 |
| ## 1088 | 1.043078e-02 | 9.446281e-03 | -5.102102e-03 |
| ## 1089 | 1.774084e-02 | 8.881220e-03 | 3.798868e-03 |
| ## 1090 | 8.383354e-03 | 9.407219e-03 | -1.037643e-02 |
| ## 1091 | -2.886889e-03 | 1.003942e-02 | -7.438902e-03 |
| ## 1092 | -4.948452e-02 | 6.704071e-03 | 3.227470e-02 |
| ## 1095 | -1.338920e-02 | 9.626297e-03 | 4.453585e-02 |
| ## 1096 | -5.647942e-02 | 2.216401e-03 | -6.435160e-04 |
| ## 1097 | 3.078173e-02 | 1.131222e-02 | 5.366144e-02 |
| ## 1098 | -4.617527e-02 | 1.272521e-02 | 1.542753e-03 |
| ## 1099 | 1.329809e-02 | 9.197145e-03 | 4.276658e-03 |
| ## 1100 | 1.246690e-02 | 1.429060e-02 | -1.539681e-03 |
| ## 1102 | 1.521270e-02 | 1.206466e-02 | 3.486570e-03 |
| ## 1103 | 1.232399e-02 | -2.388148e-02 | 5.345070e-02 |
| ## 1105 | -3.589259e-03 | 9.269969e-03 | -2.739326e-02 |
| ## 1106 | -1.825188e-03 | -6.652499e-02 | -1.602169e-02 |
| ## 1107 | 2.779492e-02 | -2.579460e-03 | 7.905686e-03 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1108 | 3.056472e-02 | 1.275463e-03 | 3.858503e-03 |
| ## 1109 | -2.448962e-03 | 1.532935e-02 | -1.359391e-02 |
| ## 1110 | -7.314562e-03 | -2.677034e-02 | -5.722790e-03 |
| ## 1111 | -2.290607e-03 | -1.846096e-02 | -7.585628e-03 |
| ## 1114 | -7.303239e-04 | -6.770877e-02 | -1.235994e-02 |
| ## 1115 | -6.594821e-03 | -6.410743e-03 | -2.013273e-02 |
| ## 1116 | 4.893016e-02 | 4.009992e-04 | -8.566196e-03 |
| ## 1117 | -1.622368e-02 | 1.060571e-02 | -1.250060e-02 |
| ## 1118 | 1.936184e-02 | -6.677612e-02 | -8.160899e-03 |
| ## 1119 | -6.955697e-03 | -6.890747e-02 | -2.349576e-02 |
| ## 1121 | 8.638430e-03 | 1.172197e-02 | -1.840097e-02 |
| ## 1122 | -6.068714e-03 | 1.079775e-02 | -2.573415e-02 |
| ## 1124 | -1.150410e-02 | -6.047345e-03 | 5.056453e-02 |
| ## 1125 | 5.346253e-03 | 1.307669e-02 | -1.216578e-02 |
| ## 1126 | 2.802985e-03 | 1.575783e-02 | -8.222783e-03 |
| ## 1127 | -1.990348e-03 | 4.892111e-03 | -9.079550e-03 |
| ## 1128 | 1.368129e-02 | 1.232797e-02 | 4.439876e-03 |
| ## 1129 | 8.051404e-03 | -6.506463e-02 | 4.408846e-03 |
| ## 1130 | 2.586215e-02 | 8.674972e-03 | 4.131294e-03 |
| ## 1133 | -1.372465e-02 | -4.079430e-02 | -5.969859e-03 |
| ## 1134 | 2.095718e-03 | -5.925881e-02 | -1.719210e-02 |
| ## 1135 | 2.462898e-03 | 1.013717e-02 | -1.515168e-02 |
| ## 1136 | 9.367396e-03 | 1.068070e-02 | 1.544346e-03 |
| ## 1137 | -3.773460e-02 | 3.091538e-03 | -1.992311e-03 |
| ## 1138 | -4.854364e-03 | 1.457364e-02 | -1.695039e-02 |
| ## 1140 | -7.214897e-03 | 1.324543e-02 | 5.422633e-02 |
| ## 1141 | 1.934472e-03 | 9.611658e-03 | -2.359281e-02 |
| ## 1143 | 2.203019e-02 | 4.213411e-03 | -2.313794e-03 |
| ## 1144 | 1.485060e-02 | 9.103115e-03 | -1.812274e-02 |
| ## 1145 | 3.034237e-03 | 7.873307e-03 | 6.773057e-04 |
| ## 1146 | 2.499108e-02 | 2.471011e-03 | 1.920430e-03 |
| ## 1147 | 2.476042e-02 | 8.855572e-03 | -1.183798e-02 |
| ## 1148 | 1.295084e-02 | 8.158396e-03 | -2.003754e-02 |
| ## 1149 | 7.926928e-03 | 1.999016e-03 | -6.560629e-03 |
| ## 1152 | 5.435335e-03 | 1.577192e-03 | -1.403699e-02 |
| ## 1153 | -1.370519e-02 | 1.331559e-02 | -1.980834e-02 |
| ## 1154 | -1.727510e-02 | -3.409057e-02 | -4.367906e-03 |
| ## 1155 | -7.560069e-03 | 6.522861e-04 | -1.020394e-02 |
| ## 1156 | -5.251435e-03 | 7.263224e-03 | 4.396637e-02 |
| ## 1157 | 3.411012e-03 | -6.879846e-02 | -1.056285e-02 |
| ## 1159 | -3.033359e-03 | 8.662310e-03 | -9.695597e-03 |
| ## 1160 | -1.061598e-03 | 4.737822e-03 | -2.020744e-02 |
| ## 1162 | 2.149881e-03 | -6.221503e-02 | -1.122047e-02 |
| ## 1163 | 7.062266e-03 | 9.278513e-04 | -2.010804e-02 |
| ## 1164 | 1.127516e-02 | 8.154642e-04 | -1.729648e-04 |
| ## 1165 | -7.566294e-02 | 1.417958e-02 | -7.224344e-03 |
| ## 1166 | 8.139240e-03 | -7.663863e-02 | -1.620475e-02 |
| ## 1167 | -9.832539e-03 | 7.744953e-03 | -1.344021e-02 |
| ## 1168 | 2.666649e-02 | 5.030350e-03 | 2.598694e-03 |
| ## 1171 | 3.190950e-02 | 1.293948e-02 | -3.496995e-03 |
| ## 1172 | -1.107094e-02 | 2.033616e-02 | -1.875310e-02 |
| ## 1173 | -7.937577e-02 | 1.131667e-02 | 5.574201e-02 |
| ## 1174 | 1.744349e-02 | 2.830213e-03 | -1.767352e-02 |
| ## 1175 | -8.701562e-03 | 2.328808e-02 | 4.797628e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1176 | 4.119091e-02 | -1.458007e-02 | 1.544161e-02 |
| ## 1178 | 1.474304e-02 | 5.118581e-03 | -1.688559e-02 |
| ## 1179 | 5.530922e-03 | 1.146254e-02 | -2.356737e-02 |
| ## 1181 | 1.745794e-02 | 8.871044e-03 | 5.302276e-03 |
| ## 1182 | 5.012799e-02 | 1.044770e-02 | -2.328969e-03 |
| ## 1183 | 2.060426e-02 | 9.693589e-03 | -1.276886e-02 |
| ## 1184 | 2.242938e-02 | 5.223220e-04 | -9.451922e-03 |
| ## 1185 | 2.415315e-02 | -6.696833e-02 | -1.136703e-02 |
| ## 1186 | 6.080054e-03 | 1.855886e-02 | -9.207231e-04 |
| ## 1187 | -4.403085e-03 | 1.290478e-02 | 4.891114e-02 |
| ## 1190 | 1.124049e-03 | 6.764438e-03 | -6.370007e-03 |
| ## 1191 | -3.153052e-03 | 1.902695e-03 | -1.476346e-02 |
| ## 1192 | -3.620607e-03 | 1.835941e-03 | -2.085572e-02 |
| ## 1193 | 1.764982e-02 | -2.555164e-03 | -6.589268e-03 |
| ## 1194 | -6.667695e-03 | 1.182204e-02 | -1.139507e-02 |
| ## 1195 | 4.781478e-03 | 6.925354e-04 | -3.204965e-03 |
| ## 1197 | 5.136115e-04 | 3.725910e-03 | -2.010788e-02 |
| ## 1198 | -1.915679e-02 | 4.323570e-03 | 4.331080e-02 |
| ## 1200 | 1.129518e-02 | -4.639532e-03 | -2.887249e-05 |
| ## 1201 | -8.617226e-03 | 1.092490e-02 | 4.368911e-02 |
| ## 1202 | -3.274809e-03 | 6.519510e-02 | -2.022453e-02 |
| ## 1203 | -6.152221e-02 | 1.021120e-02 | -2.370758e-03 |
| ## 1204 | -5.915473e-02 | 9.665429e-03 | -1.413102e-02 |
| ## 1205 | 4.441035e-03 | 2.535003e-03 | 4.135058e-02 |
| ## 1206 | 3.592353e-03 | 6.190345e-03 | -1.470146e-02 |
| ## 1209 | -3.688148e-03 | 1.213853e-02 | -1.808637e-02 |
| ## 1210 | -6.272454e-03 | 5.725619e-03 | -1.749990e-02 |
| ## 1211 | -1.774055e-02 | 5.003108e-03 | -2.593085e-02 |
| ## 1212 | 1.688207e-02 | 1.208950e-02 | 4.385122e-03 |
| ## 1213 | -2.780612e-03 | 8.060257e-03 | -9.074649e-03 |
| ## 1214 | -4.752404e-03 | -4.007002e-03 | 5.625668e-02 |
| ## 1216 | -2.279831e-03 | -1.630762e-03 | -1.569336e-02 |
| ## 1217 | 3.764125e-02 | -6.561760e-02 | 4.230480e-03 |
| ## 1219 | 1.120223e-03 | 1.652694e-02 | -1.964465e-02 |
| ## 1220 | -1.914556e-03 | 1.096782e-02 | 4.800817e-02 |
| ## 1221 | 9.685576e-05 | 1.072335e-02 | -1.250613e-02 |
| ## 1222 | -1.271346e-03 | -1.157453e-02 | -2.314910e-02 |
| ## 1223 | 3.932795e-03 | 5.909005e-03 | -1.755913e-02 |
| ## 1224 | -1.939150e-03 | 1.151936e-02 | -1.520034e-02 |
| ## 1225 | -8.180785e-03 | 1.154096e-02 | -2.065240e-02 |
| ## 1228 | -1.187441e-02 | 1.192389e-02 | -2.754071e-02 |
| ## 1229 | 1.809638e-02 | 1.031169e-02 | -9.708072e-03 |
| ## 1230 | -1.078883e-02 | 1.172864e-02 | -2.389136e-02 |
| ## 1231 | -8.655477e-02 | 1.852411e-02 | -8.256373e-03 |
| ## 1232 | -4.737877e-02 | 1.407572e-02 | 1.188565e-02 |
| ## 1233 | 3.993625e-03 | 8.652354e-03 | -1.207471e-02 |
| ## 1235 | 5.977989e-03 | -1.994836e-03 | -1.916019e-02 |
| ## 1236 | -3.013039e-03 | 8.109639e-03 | -2.358215e-02 |
| ## 1238 | -3.124589e-03 | 4.522194e-03 | -1.390133e-02 |
| ## 1239 | 2.085684e-02 | 2.225089e-02 | 6.141527e-02 |
| ## 1240 | 2.272388e-02 | 1.416118e-02 | -2.198451e-03 |
| ## 1241 | 2.752068e-02 | -6.854470e-02 | 6.006883e-02 |
| ## 1242 | -1.059952e-02 | 7.211876e-03 | -9.997599e-03 |
| ## 1243 | -6.141902e-04 | 3.972684e-03 | -2.239380e-03 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1244 | 8.279667e-03 | 1.333381e-02 | -2.357660e-02 |
| ## 1247 | 1.051665e-02 | 9.218266e-03 | -1.955934e-02 |
| ## 1248 | -1.168325e-02 | -4.698736e-02 | 5.481859e-02 |
| ## 1249 | -7.477373e-03 | 1.428168e-02 | -2.319803e-02 |
| ## 1250 | -1.086819e-02 | -2.379143e-03 | -7.178370e-04 |
| ## 1251 | -4.678510e-03 | -3.082085e-03 | -9.211901e-03 |
| ## 1252 | 8.400922e-03 | 5.086517e-03 | 6.561301e-04 |
| ## 1254 | 7.182456e-03 | 8.466278e-03 | -1.419590e-02 |
| ## 1255 | -7.031275e-03 | -4.128576e-03 | -1.042518e-02 |
| ## 1257 | 6.539453e-03 | -5.713329e-02 | -1.325902e-02 |
| ## 1258 | 4.945215e-04 | 1.210406e-02 | -2.227426e-02 |
| ## 1259 | 1.663112e-02 | 1.021498e-02 | -6.411208e-03 |
| ## 1260 | 6.176610e-03 | 9.659124e-03 | -5.648190e-03 |
| ## 1261 | -4.406779e-03 | 9.697116e-03 | -2.475406e-02 |
| ## 1262 | -1.107641e-02 | -3.725363e-03 | -2.048842e-02 |
| ## 1263 | -1.390202e-02 | -1.961069e-02 | -1.046874e-02 |
| ## 1266 | -5.775981e-03 | 1.493114e-02 | -4.838063e-03 |
| ## 1267 | -1.823859e-02 | 5.704628e-03 | -1.325629e-02 |
| ## 1268 | 1.197981e-02 | 1.065116e-02 | -5.502752e-03 |
| ## 1269 | -9.006873e-03 | -3.546762e-03 | -6.349591e-03 |
| ## 1270 | -9.590615e-03 | 4.338565e-03 | -1.764132e-02 |
| ## 1271 | -2.105092e-04 | -4.484350e-03 | 3.963081e-03 |
| ## 1273 | 1.972969e-03 | 1.184821e-02 | 4.587235e-02 |
| ## 1274 | -1.243986e-02 | 8.870181e-03 | -1.030624e-02 |
| ## 1276 | 5.870457e-03 | 2.229605e-02 | -6.367401e-04 |
| ## 1277 | -8.847224e-03 | -3.000862e-02 | 7.123927e-03 |
| ## 1278 | 6.408682e-03 | -1.481508e-02 | -1.285967e-02 |
| ## 1279 | -1.153167e-02 | 1.144972e-02 | -1.342079e-02 |
| ## 1280 | -7.503979e-02 | 1.300480e-02 | 8.308394e-03 |
| ## 1281 | 1.277691e-03 | 8.308807e-03 | 4.858587e-02 |
| ## 1282 | -7.173195e-03 | 9.664479e-03 | -9.651150e-03 |
| ## 1285 | 1.766904e-02 | 1.446543e-02 | 5.387725e-02 |
| ## 1286 | -8.283003e-03 | 6.653564e-03 | -2.431892e-02 |
| ## 1287 | 1.540523e-02 | -4.693423e-02 | -3.219367e-03 |
| ## 1288 | 5.093868e-03 | -4.280435e-03 | -1.751529e-02 |
| ## 1289 | 8.557052e-04 | 6.553766e-03 | -9.919263e-03 |
| ## 1290 | -2.233746e-03 | -2.845722e-02 | -2.179547e-02 |
| ## 1292 | 1.459969e-02 | -4.682412e-03 | -1.000009e-02 |
| ## 1293 | -3.452209e-03 | -3.054440e-02 | -7.313559e-03 |
| ## 1295 | 1.853464e-02 | 1.059765e-02 | -1.114050e-02 |
| ## 1296 | 4.708276e-02 | 1.125144e-02 | 7.993753e-03 |
| ## 1297 | -7.520959e-03 | -2.279230e-03 | -2.616860e-02 |
| ## 1298 | 3.321859e-03 | 9.798945e-03 | -1.284787e-02 |
| ## 1299 | -3.757078e-03 | 1.134961e-02 | 8.869407e-04 |
| ## 1300 | -1.239870e-02 | 2.135964e-02 | 4.247883e-02 |
| ## 1301 | 8.242178e-03 | -5.470502e-02 | -3.514692e-03 |
| ## 1304 | -9.203097e-03 | 1.518325e-02 | -1.047191e-02 |
| ## 1305 | -1.265473e-02 | 8.914660e-04 | -1.153348e-02 |
| ## 1306 | -4.242636e-02 | 1.830397e-02 | 2.759065e-03 |
| ## 1307 | 6.375546e-03 | 9.592139e-03 | -3.161985e-03 |
| ## 1308 | 4.600319e-04 | 7.727591e-03 | -1.691649e-02 |
| ## 1309 | -8.516498e-02 | -1.221244e-02 | -1.169047e-02 |
| ## 1311 | 1.587396e-03 | -1.172528e-02 | -9.239987e-03 |
| ## 1312 | 7.490399e-03 | 4.697684e-03 | -1.414482e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1314 | -5.326472e-03 | 1.206956e-02 | 5.432665e-02 |
| ## 1315 | 1.178989e-02 | 1.006579e-02 | -9.874384e-03 |
| ## 1316 | 2.849050e-03 | -3.891657e-02 | -2.988089e-03 |
| ## 1317 | 6.383889e-03 | 1.528556e-02 | -1.320723e-02 |
| ## 1318 | 1.072473e-03 | 1.197199e-02 | 4.632443e-02 |
| ## 1319 | 3.086891e-03 | 1.189092e-02 | -1.824550e-02 |
| ## 1320 | -9.456492e-03 | 1.840943e-02 | -3.985936e-03 |
| ## 1323 | -8.659498e-03 | 1.150799e-02 | 5.403664e-02 |
| ## 1324 | 9.919363e-03 | 1.247092e-02 | -1.539669e-02 |
| ## 1325 | -7.384472e-02 | 1.480439e-02 | -2.314099e-03 |
| ## 1326 | -4.971577e-03 | -5.269026e-02 | -1.492789e-02 |
| ## 1327 | -6.267854e-03 | 9.783793e-03 | -2.519509e-02 |
| ## 1328 | -8.084438e-02 | 5.759751e-03 | 5.611100e-03 |
| ## 1330 | 1.401419e-03 | -6.830169e-02 | -2.170968e-02 |
| ## 1331 | 1.224463e-02 | 1.642506e-02 | -1.256393e-02 |
| ## 1333 | 6.769454e-03 | 1.959005e-03 | -1.725686e-02 |
| ## 1334 | -1.448943e-02 | 7.748662e-03 | -2.445675e-02 |
| ## 1335 | -1.478878e-02 | -1.018001e-02 | -9.170989e-03 |
| ## 1336 | 4.960969e-03 | 5.952387e-03 | -1.099344e-02 |
| ## 1337 | -1.784088e-02 | 1.193572e-02 | -1.444071e-02 |
| ## 1338 | 2.528674e-02 | 1.146598e-02 | -8.557405e-03 |
| ## 1339 | -8.315238e-02 | -2.051742e-04 | 6.095135e-02 |
| ## 1342 | 8.236023e-03 | 1.882160e-03 | -1.351190e-02 |
| ## 1343 | -4.381245e-03 | 9.256058e-03 | -2.105758e-03 |
| ## 1344 | -3.539719e-02 | -5.023860e-02 | -4.656745e-05 |
| ## 1345 | -8.151679e-02 | 1.736636e-02 | -1.391607e-04 |
| ## 1346 | 4.284129e-03 | 1.047069e-02 | -1.104987e-02 |
| ## 1347 | 6.705633e-03 | -6.836581e-02 | -2.216879e-02 |
| ## 1349 | 1.337954e-04 | 7.841664e-03 | -1.751158e-02 |
| ## 1350 | 1.689503e-02 | 9.585310e-03 | -6.590844e-03 |
| ## 1352 | 7.576062e-04 | 8.861860e-03 | 4.682932e-02 |
| ## 1353 | 3.051131e-02 | 1.749647e-02 | -1.555257e-02 |
| ## 1354 | 1.587442e-02 | 1.909219e-02 | -1.840138e-02 |
| ## 1355 | -3.383198e-03 | -6.942279e-02 | -2.271736e-02 |
| ## 1356 | -1.368690e-02 | 3.181647e-02 | -3.198067e-02 |
| ## 1357 | 4.255086e-05 | 5.198070e-03 | -1.237258e-02 |
| ## 1358 | 5.279434e-04 | 9.753113e-03 | -2.367067e-02 |
| ## 1361 | 1.293611e-02 | 1.384818e-03 | 4.950556e-02 |
| ## 1362 | -8.283583e-02 | 1.087581e-02 | -1.025829e-02 |
| ## 1363 | 4.189082e-04 | 1.392013e-02 | 5.056899e-02 |
| ## 1364 | 9.802760e-03 | 1.064266e-02 | -7.429666e-03 |
| ## 1365 | -1.566681e-03 | 5.597294e-03 | -8.280225e-03 |
| ## 1366 | -1.446690e-02 | 9.280945e-03 | -5.692738e-03 |
| ## 1368 | -4.682848e-02 | -3.428681e-02 | 6.024777e-03 |
| ## 1369 | -8.606327e-03 | -6.902840e-04 | 4.789660e-02 |
| ## 1371 | 2.221101e-02 | 1.259353e-02 | -1.130490e-02 |
| ## 1372 | 1.332962e-02 | -9.988350e-04 | 4.330584e-03 |
| ## 1373 | 1.873654e-02 | -2.000960e-02 | -7.460440e-03 |
| ## 1374 | 2.286994e-02 | 1.473731e-03 | -1.354982e-02 |
| ## 1375 | 1.644415e-02 | 9.525057e-03 | -3.839894e-03 |
| ## 1376 | 1.531335e-02 | -5.542586e-02 | 2.112675e-03 |
| ## 1377 | -2.574301e-03 | -4.744464e-03 | 1.793969e-02 |
| ## 1380 | 7.182879e-03 | 4.355896e-03 | 5.638725e-02 |
| ## 1381 | -1.483871e-03 | 7.849789e-03 | -3.109328e-03 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1382 | 1.403418e-02 | 1.181058e-02 | -1.831547e-02 |
| ## 1383 | 1.615468e-02 | -5.069716e-02 | -6.305600e-04 |
| ## 1384 | 3.541127e-03 | 2.865942e-03 | -1.201765e-02 |
| ## 1385 | 7.181879e-03 | 7.938505e-03 | -7.386651e-03 |
| ## 1387 | 1.984535e-02 | -2.326258e-02 | 2.798812e-03 |
| ## 1388 | -8.172139e-02 | 1.079027e-02 | -1.476379e-02 |
| ## 1390 | 1.802341e-02 | 8.280516e-03 | -4.991825e-03 |
| ## 1391 | 1.092250e-02 | 1.488231e-02 | -2.469849e-02 |
| ## 1392 | 2.456870e-03 | 4.653142e-03 | 2.832398e-02 |
| ## 1393 | 1.485421e-02 | -1.025759e-02 | 7.595832e-03 |
| ## 1394 | -8.099414e-02 | 2.725360e-02 | 2.770820e-03 |
| ## 1395 | 7.862695e-03 | 8.441407e-03 | 5.001415e-02 |
| ## 1396 | 2.331050e-02 | 9.883105e-03 | -5.250083e-03 |
| ## 1399 | -1.737942e-02 | 1.691588e-02 | -1.291254e-02 |
| ## 1400 | 3.050128e-03 | -7.603713e-02 | -4.989326e-03 |
| ## 1401 | 8.774088e-03 | -6.682203e-02 | -1.532847e-02 |
| ## 1402 | -4.321360e-02 | 1.171272e-02 | -1.034053e-02 |
| ## 1403 | -8.491683e-02 | 1.937531e-02 | -1.411982e-04 |
| ## 1404 | 1.450044e-02 | -6.277938e-02 | -2.273496e-03 |
| ## 1406 | 2.418964e-03 | -6.318076e-02 | -2.531065e-02 |
| ## 1407 | 7.189054e-03 | 1.298721e-02 | -1.167976e-02 |
| ## 1409 | -1.539339e-02 | 1.109926e-02 | 4.607657e-02 |
| ## 1410 | 3.444551e-03 | 7.015318e-03 | 5.032371e-02 |
| ## 1411 | -1.195454e-02 | -4.624429e-03 | -5.341411e-03 |
| ## 1412 | -1.199914e-02 | 9.046522e-03 | -1.545071e-02 |
| ## 1413 | 8.775412e-03 | 1.110213e-02 | -4.908839e-03 |
| ## 1414 | 2.304980e-02 | -4.082025e-03 | -2.077230e-03 |
| ## 1415 | 3.204387e-02 | 1.212576e-02 | -7.249408e-03 |
| ## 1418 | -6.111919e-03 | -1.535496e-02 | -1.275158e-02 |
| ## 1419 | -6.085538e-03 | 2.293710e-02 | -2.389990e-02 |
| ## 1420 | -5.460114e-03 | -3.240104e-02 | 4.898687e-02 |
| ## 1421 | 7.795064e-03 | 1.230568e-02 | 5.088933e-02 |
| ## 1422 | -3.432085e-03 | -6.704106e-02 | 4.165708e-03 |
| ## 1423 | 2.293555e-03 | 2.233161e-02 | 2.404963e-03 |
| ## 1425 | 2.341386e-02 | 1.288279e-02 | -9.477157e-03 |
| ## 1426 | 1.291417e-02 | 9.610161e-03 | -1.286765e-02 |
| ## 1428 | 1.464692e-03 | 2.508584e-02 | 5.167339e-02 |
| ## 1429 | -3.159107e-03 | -6.191197e-04 | 5.233495e-02 |
| ## 1430 | 1.407431e-02 | 1.236174e-02 | -8.517390e-03 |
| ## 1431 | -1.048967e-02 | -3.302916e-03 | -9.255283e-03 |
| ## 1432 | -6.313414e-02 | -6.453661e-02 | -2.494963e-03 |
| ## 1433 | -6.713608e-02 | 1.213617e-02 | -1.278151e-02 |
| ## 1434 | -5.713885e-03 | 1.081682e-02 | -1.851615e-02 |
| ## 1437 | -1.973186e-03 | 7.411836e-04 | 5.904461e-02 |
| ## 1438 | -5.331268e-02 | -2.680049e-02 | -3.605453e-03 |
| ## 1439 | 2.048197e-02 | 8.479137e-03 | -6.840139e-03 |
| ## 1440 | -3.343318e-03 | 7.529161e-03 | -3.461549e-03 |
| ## 1441 | 7.554825e-03 | -6.916146e-02 | -6.803932e-03 |
| ## 1442 | -9.370627e-03 | 8.044042e-03 | 5.351182e-02 |
| ## 1444 | -6.427990e-03 | 2.389403e-03 | -1.035929e-02 |
| ## 1445 | 2.079491e-02 | 2.153006e-02 | 1.593929e-03 |
| ## 1447 | 2.620506e-02 | 1.012093e-02 | 8.068032e-03 |
| ## 1448 | 1.401968e-04 | -7.369840e-02 | -2.009499e-02 |
| ## 1449 | -7.088955e-03 | 1.356292e-02 | -1.397029e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1450 | 2.266650e-02 | -6.811387e-02 | -3.749927e-03 |
| ## 1451 | -6.153994e-04 | 5.418310e-03 | -7.567700e-03 |
| ## 1452 | 1.695797e-02 | 1.008336e-02 | -9.503744e-04 |
| ## 1453 | -6.646249e-03 | 7.248733e-03 | -2.413311e-02 |
| ## 1456 | 2.589673e-02 | 1.805788e-02 | -4.753068e-03 |
| ## 1457 | 2.692773e-02 | -1.842876e-02 | -5.783512e-03 |
| ## 1458 | -8.983211e-02 | 6.855996e-04 | -7.461201e-03 |
| ## 1459 | 9.520900e-03 | 4.924157e-03 | -7.254610e-03 |
| ## 1460 | 3.516980e-03 | 1.494666e-02 | -1.673770e-02 |
| ## 1461 | 8.723765e-03 | 3.300952e-03 | -5.654254e-03 |
| ## 1463 | 2.609686e-03 | -4.978315e-02 | -3.150027e-03 |
| ## 1464 | -1.019694e-02 | 1.474956e-02 | 4.680775e-04 |
| ## 1466 | -4.994707e-05 | 1.535089e-02 | -1.312882e-02 |
| ## 1467 | 4.615001e-03 | 8.636784e-03 | -2.204006e-02 |
| ## 1468 | 1.218496e-02 | 5.324948e-03 | -2.302616e-02 |
| ## 1469 | -3.666254e-03 | 1.039102e-02 | -2.233747e-02 |
| ## 1470 | -5.756788e-03 | 2.476131e-02 | -7.060473e-03 |
| ## 1471 | 1.149906e-02 | 9.025749e-03 | -2.608817e-03 |
| ## 1472 | -6.198341e-03 | 4.379681e-03 | 3.654179e-02 |
| ## 1475 | -4.826155e-02 | 1.115370e-02 | -7.160786e-03 |
| ## 1476 | -8.589806e-03 | 6.719391e-03 | 4.503372e-02 |
| ## 1477 | 1.689560e-02 | 4.332746e-03 | -6.892619e-03 |
| ## 1478 | 2.027001e-02 | 7.849570e-03 | -1.667124e-02 |
| ## 1479 | 1.396522e-02 | 9.182002e-03 | 5.299270e-02 |
| ## 1480 | -6.960495e-02 | 1.338369e-02 | -4.114267e-03 |
| ## 1482 | 1.087590e-02 | 2.230780e-02 | -1.774142e-03 |
| ## 1483 | 2.219248e-02 | 9.324048e-03 | -8.219267e-03 |
| ## 1485 | -2.287610e-03 | 2.312422e-02 | -2.861733e-02 |
| ## 1486 | 2.229829e-02 | 8.189563e-03 | 7.715436e-03 |
| ## 1487 | -6.970135e-02 | 1.453900e-02 | -2.095082e-02 |
| ## 1488 | 3.675223e-02 | 1.260993e-02 | 6.348187e-02 |
| ## 1489 | -6.778851e-03 | -6.165671e-03 | 6.398380e-03 |
| ## 1490 | -1.335353e-03 | -6.261836e-02 | -1.620840e-02 |
| ## 1491 | 2.155550e-02 | 1.124837e-02 | -1.943240e-02 |
| ## 1494 | 2.519838e-02 | -1.082880e-02 | 1.941157e-03 |
| ## 1495 | -6.230313e-03 | 1.374660e-02 | -1.239771e-02 |
| ## 1496 | 1.263222e-02 | 1.458535e-02 | -2.315603e-02 |
| ## 1497 | -5.437928e-03 | 3.824456e-03 | -5.073115e-03 |
| ## 1498 | 1.999797e-02 | 1.184573e-02 | -1.594651e-03 |
| ## 1499 | -1.714955e-03 | -3.363397e-03 | 5.679576e-02 |
| ## 1501 | -1.070017e-04 | -2.634391e-02 | 5.224321e-02 |
| ## 1502 | 7.154224e-03 | 7.889327e-03 | -2.124896e-02 |
| ## 1504 | 3.373368e-03 | 9.995347e-03 | -8.151055e-03 |
| ## 1505 | -8.959075e-03 | 1.649859e-02 | 5.130654e-02 |
| ## 1506 | -4.320068e-03 | 1.749347e-03 | -1.632353e-02 |
| ## 1507 | -7.143390e-03 | 1.672258e-02 | -1.429941e-02 |
| ## 1508 | -1.344380e-02 | -3.312105e-03 | -4.469096e-03 |
| ## 1509 | -8.461356e-04 | 1.704401e-02 | 5.127976e-02 |
| ## 1510 | 2.035662e-02 | 1.084442e-02 | 3.267460e-03 |
| ## 1513 | -9.175592e-03 | 3.505460e-03 | -1.744593e-02 |
| ## 1514 | 4.023819e-03 | 1.619577e-02 | -1.319979e-02 |
| ## 1515 | 1.469755e-02 | -1.997319e-02 | 1.014392e-02 |
| ## 1516 | 2.395438e-02 | 1.130746e-02 | -1.394347e-02 |
| ## 1517 | 1.829538e-02 | -2.938182e-02 | -9.294892e-03 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1518 | -6.694092e-02 | 1.278271e-02 | -1.633617e-02 |
| ## 1520 | -2.531386e-03 | -1.438039e-03 | -1.847174e-03 |
| ## 1521 | -6.981922e-03 | 1.004281e-03 | -1.028879e-02 |
| ## 1523 | -1.549400e-02 | -3.898842e-04 | -1.145371e-02 |
| ## 1524 | 1.248346e-02 | 1.065420e-02 | -2.127627e-02 |
| ## 1525 | -8.267228e-03 | 2.291343e-03 | 5.714649e-02 |
| ## 1526 | -2.293794e-03 | 8.291952e-03 | -2.609567e-03 |
| ## 1527 | 1.497722e-02 | -6.242476e-02 | -2.273820e-02 |
| ## 1528 | 9.829853e-03 | 9.086402e-03 | 3.309024e-02 |
| ## 1529 | -1.164199e-02 | 2.060327e-03 | -1.987460e-02 |
| ## 1532 | 2.302038e-02 | 5.468962e-03 | -7.027857e-03 |
| ## 1533 | -1.995517e-03 | 1.275617e-02 | -2.693526e-02 |
| ## 1534 | -3.844143e-03 | 6.405273e-03 | 3.456754e-02 |
| ## 1535 | -4.874114e-03 | 8.196316e-03 | -2.402318e-02 |
| ## 1536 | 2.964100e-03 | -1.874987e-03 | 2.927444e-02 |
| ## 1537 | -8.435968e-02 | -9.440459e-04 | -1.574072e-02 |
| ## 1539 | -8.499888e-02 | 1.240351e-02 | -5.807410e-03 |
| ## 1540 | -3.618631e-03 | -5.463483e-02 | -7.492196e-03 |
| ## 1542 | 1.101776e-02 | 1.628822e-02 | -8.793847e-03 |
| ## 1543 | -7.775637e-03 | 5.745818e-03 | -1.048684e-02 |
| ## 1544 | 1.501623e-02 | 8.564295e-03 | -1.103471e-02 |
| ## 1545 | -6.609273e-04 | 2.165205e-02 | 4.545868e-02 |
| ## 1546 | 2.007470e-02 | 1.062434e-02 | 6.036104e-02 |
| ## 1547 | -8.568873e-03 | -2.048660e-03 | -1.649194e-02 |
| ## 1548 | 3.853188e-04 | -8.724031e-03 | -1.266501e-02 |
| ## 1551 | 1.873825e-02 | 2.065990e-02 | -1.584250e-03 |
| ## 1552 | -4.848948e-02 | 8.793312e-03 | -4.904076e-03 |
| ## 1553 | 4.808935e-02 | 1.120895e-02 | -5.366961e-03 |
| ## 1554 | 1.048122e-03 | -6.701205e-02 | 4.871132e-02 |
| ## 1555 | 1.731138e-03 | -5.356273e-03 | 1.265530e-02 |
| ## 1556 | 8.599327e-03 | 1.118651e-02 | -6.417573e-03 |
| ## 1558 | -4.847087e-03 | 1.752985e-02 | -1.707723e-02 |
| ## 1559 | 4.496853e-02 | -5.657878e-02 | 4.993232e-02 |
| ## 1561 | 8.119677e-03 | 4.295887e-03 | -1.273633e-02 |
| ## 1562 | -1.326052e-02 | 6.398448e-03 | -1.957560e-02 |
| ## 1563 | -8.597657e-03 | 1.341597e-02 | -3.004563e-02 |
| ## 1564 | -7.263101e-03 | 9.462251e-03 | -3.955406e-03 |
| ## 1565 | 1.299033e-02 | 2.524506e-02 | -1.239686e-02 |
| ## 1566 | 8.381603e-03 | 3.981622e-05 | -2.068826e-02 |
| ## 1567 | -5.594384e-02 | 4.822520e-03 | 4.309809e-03 |
| ## 1570 | 2.929026e-03 | 1.280528e-02 | 4.967341e-02 |
| ## 1571 | 2.387027e-03 | 9.675037e-03 | 5.680821e-02 |
| ## 1572 | 2.069828e-02 | 1.033749e-02 | 1.251159e-03 |
| ## 1573 | 2.646144e-03 | 1.435891e-02 | -1.649898e-02 |
| ## 1574 | 1.649487e-04 | 7.956724e-03 | -1.530771e-02 |
| ## 1575 | 1.976597e-02 | -6.561812e-02 | 8.909677e-03 |
| ## 1577 | -6.669562e-02 | -1.352200e-03 | -1.375353e-02 |
| ## 1578 | -6.555330e-03 | -2.127285e-03 | -9.866125e-03 |
| ## 1580 | 1.899268e-02 | 1.538258e-02 | -2.342959e-02 |
| ## 1581 | -4.099362e-03 | 4.070981e-03 | -4.484434e-03 |
| ## 1582 | -4.174959e-03 | 5.829104e-03 | -2.717782e-03 |
| ## 1583 | -3.766893e-04 | 5.133192e-03 | -1.526776e-02 |
| ## 1584 | -1.081790e-03 | 4.691482e-04 | -1.325969e-02 |
| ## 1585 | 3.003480e-02 | 2.099570e-02 | -1.092943e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1586 | 6.017819e-03 | 1.282537e-02 | 3.015463e-03 |
| ## 1589 | 1.461506e-02 | 5.734064e-03 | -1.171551e-02 |
| ## 1590 | -7.921888e-02 | 1.422847e-02 | -2.352989e-03 |
| ## 1591 | -7.320392e-02 | 1.464798e-02 | -4.131413e-03 |
| ## 1592 | -6.473573e-03 | 1.154540e-02 | -1.830056e-02 |
| ## 1593 | 5.845503e-03 | 1.322082e-02 | -2.408531e-02 |
| ## 1594 | 1.827884e-02 | -4.461230e-02 | -4.306765e-03 |
| ## 1596 | -1.075556e-03 | 3.696040e-03 | -4.814180e-03 |
| ## 1597 | -1.253739e-03 | 7.759439e-03 | -1.434185e-02 |
| ## 1599 | 2.235586e-02 | 9.921731e-03 | -1.297327e-02 |
| ## 1600 | -2.042206e-03 | 8.466772e-03 | -1.374801e-02 |
| ## 1601 | -2.570750e-03 | 8.520711e-03 | 5.777262e-02 |
| ## 1602 | -4.260677e-03 | 1.197751e-02 | -3.682544e-03 |
| ## 1603 | 5.360961e-02 | -6.609614e-02 | -1.083828e-02 |
| ## 1604 | 1.803700e-02 | 1.226282e-02 | -2.080049e-02 |
| ## 1605 | -7.856058e-02 | 1.164284e-02 | -7.340452e-03 |
| ## 1608 | -4.006401e-03 | -3.467383e-04 | -2.078580e-02 |
| ## 1609 | 1.503525e-02 | -6.118981e-03 | -1.560597e-02 |
| ## 1610 | 9.728431e-03 | -4.050554e-02 | 4.235256e-03 |
| ## 1611 | 1.192699e-02 | -3.225167e-02 | 5.104528e-02 |
| ## 1612 | -4.827593e-03 | 1.907991e-03 | 4.894012e-02 |
| ## 1613 | 6.839158e-03 | 2.392055e-02 | -2.663628e-02 |
| ## 1615 | 1.746177e-02 | -2.582257e-02 | -4.804708e-03 |
| ## 1616 | -1.648185e-04 | 8.056750e-03 | -2.004303e-02 |
| ## 1618 | -8.033172e-03 | 1.042799e-02 | -1.901367e-02 |
| ## 1619 | -3.301195e-03 | 7.596693e-03 | 3.552781e-02 |
| ## 1620 | 3.666592e-03 | 8.649207e-03 | 5.623646e-02 |
| ## 1621 | 2.628621e-02 | 1.254506e-02 | 5.098355e-02 |
| ## 1622 | -3.364686e-03 | -6.945084e-02 | 9.571303e-04 |
| ## 1623 | -4.594335e-02 | -4.377404e-02 | 3.520065e-03 |
| ## 1624 | 5.271979e-03 | 4.574987e-03 | 4.391785e-02 |
| ## 1627 | -1.369860e-03 | -7.047343e-02 | -2.139566e-02 |
| ## 1628 | 5.788973e-04 | 6.878194e-03 | -4.275920e-03 |
| ## 1629 | -1.138771e-02 | -7.036280e-02 | -1.644211e-02 |
| ## 1630 | 1.860104e-02 | -4.084950e-03 | 5.567738e-02 |
| ## 1631 | 2.704205e-04 | 1.068327e-02 | -9.027188e-04 |
| ## 1632 | 2.048986e-02 | -6.680428e-02 | -9.345005e-03 |
| ## 1634 | -8.445335e-03 | 3.864896e-03 | -1.503395e-02 |
| ## 1635 | 1.034034e-02 | -8.991900e-04 | 5.508068e-02 |
| ## 1637 | 4.563255e-03 | -9.358534e-03 | 8.526200e-04 |
| ## 1638 | 1.338419e-02 | 3.742251e-03 | -1.088686e-02 |
| ## 1639 | 1.181340e-02 | 6.942047e-03 | -1.128038e-02 |
| ## 1640 | -9.632003e-03 | 1.538293e-02 | -1.198892e-02 |
| ## 1641 | -9.958143e-03 | 9.018782e-03 | 5.516051e-02 |
| ## 1642 | -1.150257e-02 | 1.238650e-02 | -1.409086e-03 |
| ## 1643 | -8.435908e-04 | 9.894892e-03 | -1.102240e-02 |
| ## 1646 | 1.668070e-02 | 1.494399e-02 | -5.004009e-03 |
| ## 1647 | -6.709118e-03 | 7.487360e-03 | 5.138460e-02 |
| ## 1648 | 1.038481e-02 | -9.197667e-03 | -3.713125e-03 |
| ## 1649 | 3.902574e-03 | 4.123135e-03 | -8.037238e-03 |
| ## 1650 | 4.246867e-03 | 3.550005e-03 | -9.330073e-03 |
| ## 1651 | 1.421379e-02 | 9.124289e-03 | -1.400329e-02 |
| ## 1653 | 7.257727e-03 | 9.353627e-03 | 6.028567e-02 |
| ## 1654 | 2.783094e-03 | 5.294334e-03 | -1.033464e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1656 | -5.830494e-03 | 1.422551e-02 | 5.094414e-02 |
| ## 1657 | 2.357502e-02 | 2.742439e-03 | 7.513207e-03 |
| ## 1658 | -5.912166e-03 | -1.082074e-03 | -2.220047e-02 |
| ## 1659 | 1.354240e-02 | 1.239402e-02 | 5.373781e-02 |
| ## 1660 | 3.447510e-03 | -5.926059e-02 | -1.640921e-02 |
| ## 1661 | -7.803929e-03 | 8.306898e-03 | -1.428336e-02 |
| ## 1662 | -3.083635e-03 | 5.030133e-03 | -9.813596e-03 |
| ## 1665 | -7.577090e-02 | 1.647343e-02 | -7.714841e-03 |
| ## 1666 | 3.186646e-02 | 1.171094e-02 | 6.220234e-03 |
| ## 1667 | -9.150942e-04 | 5.100337e-03 | -9.840183e-03 |
| ## 1668 | -6.026213e-03 | -1.015114e-02 | -8.054997e-03 |
| ## 1669 | -4.362217e-03 | 1.706833e-02 | -1.571863e-02 |
| ## 1670 | 3.367293e-02 | -6.550627e-02 | 1.029791e-03 |
| ## 1672 | 2.924734e-02 | 1.091315e-02 | -1.761655e-02 |
| ## 1673 | 1.877639e-02 | 1.600516e-02 | -4.666055e-03 |
| ## 1675 | 1.736696e-02 | 9.778359e-03 | -9.121856e-03 |
| ## 1676 | 2.634409e-02 | 1.277726e-02 | -1.312432e-02 |
| ## 1677 | 6.170616e-04 | 1.200617e-02 | 4.965738e-02 |
| ## 1678 | 1.768291e-02 | 1.104179e-02 | 3.463379e-02 |
| ## 1679 | 1.395708e-02 | 9.902071e-03 | -2.061626e-02 |
| ## 1680 | 1.718225e-02 | 1.104537e-02 | -2.034636e-02 |
| ## 1681 | 1.050062e-02 | 1.429888e-02 | -1.171411e-02 |
| ## 1684 | -7.016461e-02 | 7.340399e-03 | -1.555935e-02 |
| ## 1685 | -7.589577e-04 | 9.805186e-03 | -1.078006e-02 |
| ## 1686 | -1.565388e-02 | 8.965879e-03 | 5.289416e-02 |
| ## 1687 | 4.779751e-03 | 4.911998e-02 | -2.068775e-02 |
| ## 1688 | -6.815271e-02 | -2.184733e-02 | 7.497830e-03 |
| ## 1689 | 6.414809e-03 | 8.873964e-03 | 5.888832e-02 |
| ## 1691 | -4.179856e-03 | 1.459309e-02 | -2.696444e-02 |
| ## 1692 | 1.240726e-02 | 1.156432e-02 | -1.753525e-02 |
| ## 1694 | 2.213015e-02 | 1.266459e-02 | 4.974263e-02 |
| ## 1695 | 1.584636e-02 | 1.279075e-02 | -9.827953e-03 |
| ## 1696 | -1.784034e-02 | 7.630669e-03 | 5.544834e-02 |
| ## 1697 | -3.506959e-03 | 1.071146e-02 | -8.934752e-03 |
| ## 1698 | 1.752809e-02 | 7.337058e-03 | -3.426270e-03 |
| ## 1699 | -8.128551e-02 | 3.768300e-03 | -3.925929e-03 |
| ## 1700 | -1.832870e-02 | 1.179480e-02 | -2.613619e-02 |
| ## 1703 | -2.971825e-03 | 6.743208e-03 | 5.667163e-02 |
| ## 1704 | -2.857266e-03 | 3.496835e-03 | 5.071233e-02 |
| ## 1705 | 6.251131e-03 | 1.040932e-02 | -1.248355e-02 |
| ## 1706 | -8.549006e-02 | -4.555976e-02 | -2.005173e-03 |
| ## 1707 | -1.179564e-02 | -5.289493e-03 | -8.416323e-03 |
| ## 1708 | 2.300020e-02 | 9.740676e-03 | 4.262824e-02 |
| ## 1710 | 3.408117e-02 | 2.152979e-02 | -6.083761e-04 |
| ## 1711 | -1.828843e-03 | 2.095387e-02 | 2.165312e-03 |
| ## 1713 | -5.590492e-03 | 1.013880e-02 | -2.560243e-02 |
| ## 1714 | -1.068922e-03 | 1.827664e-03 | 4.025467e-03 |
| ## 1715 | -8.314589e-02 | 9.686070e-03 | 5.263745e-02 |
| ## 1716 | -1.556989e-02 | -9.376390e-04 | 3.951422e-02 |
| ## 1717 | 1.222431e-02 | 1.029604e-02 | -2.122626e-02 |
| ## 1718 | 3.294307e-02 | 7.248373e-03 | 6.225945e-02 |
| ## 1719 | 2.066413e-02 | 9.579713e-02 | -9.551976e-03 |
| ## 1722 | -9.959112e-03 | -6.916442e-02 | -1.415271e-02 |
| ## 1723 | -8.372958e-03 | 2.798165e-03 | -1.969681e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1724 | -7.630770e-03 | 1.810236e-03 | -1.382480e-02 |
| ## 1725 | 3.872746e-03 | 1.767362e-02 | -1.021343e-02 |
| ## 1726 | -7.655310e-03 | 1.052605e-02 | -1.751485e-02 |
| ## 1727 | 2.517879e-02 | 1.930436e-02 | 8.400917e-03 |
| ## 1729 | -6.736267e-02 | 1.742689e-02 | -1.634569e-02 |
| ## 1730 | -7.112530e-03 | 1.090367e-02 | -5.640493e-03 |
| ## 1732 | 1.521296e-02 | -6.349426e-02 | -9.186158e-03 |
| ## 1733 | 1.912871e-02 | -2.891018e-02 | -4.156030e-04 |
| ## 1734 | -4.927328e-03 | -3.626124e-02 | -1.001283e-02 |
| ## 1735 | -1.103629e-02 | -6.350240e-03 | -4.524975e-03 |
| ## 1736 | 2.502378e-03 | 7.233049e-03 | -2.089589e-02 |
| ## 1737 | -8.553860e-02 | -1.892991e-04 | -1.839189e-03 |
| ## 1738 | 3.767358e-02 | 2.227022e-02 | -1.915201e-03 |
| ## 1741 | -9.051396e-03 | -2.289407e-02 | -2.053410e-02 |
| ## 1742 | 2.183984e-02 | 1.836690e-02 | -1.510423e-02 |
| ## 1743 | 2.331781e-03 | -5.361852e-03 | -3.512567e-03 |
| ## 1744 | -4.021035e-04 | 1.707195e-02 | -2.333061e-02 |
| ## 1745 | 3.089495e-02 | -4.763840e-02 | 4.753718e-03 |
| ## 1746 | 3.748144e-03 | 1.235007e-02 | -1.472615e-02 |
| ## 1748 | 1.001548e-02 | 2.303893e-02 | 5.931600e-02 |
| ## 1749 | -3.936582e-03 | -9.500258e-04 | -4.349170e-03 |
| ## 1751 | 9.288888e-03 | 7.730080e-03 | -2.401003e-02 |
| ## 1752 | 3.580983e-03 | 7.896528e-03 | 4.922348e-02 |
| ## 1753 | 1.953499e-02 | 1.282899e-02 | 5.018289e-02 |
| ## 1754 | 1.124319e-02 | 6.336830e-03 | -5.464501e-03 |
| ## 1755 | 8.060553e-06 | 2.983931e-03 | -4.127458e-03 |
| ## 1756 | 1.078429e-03 | 7.821074e-03 | 4.883146e-02 |
| ## 1757 | -8.590665e-02 | 1.383154e-02 | -8.654486e-03 |
| ## 1760 | 2.185357e-04 | 7.740449e-03 | -2.275053e-02 |
| ## 1761 | 5.159203e-03 | 7.056327e-03 | -9.890424e-03 |
| ## 1762 | 8.709002e-03 | -1.419546e-02 | 6.118542e-02 |
| ## 1763 | -7.380638e-03 | 5.576804e-03 | -1.736228e-04 |
| ## 1764 | -5.257852e-04 | 1.264186e-02 | -1.284463e-02 |
| ## 1765 | -2.741664e-03 | 1.272832e-02 | 3.959904e-02 |
| ## 1767 | -1.134947e-02 | -5.229009e-02 | -1.394813e-02 |
| ## 1768 | -5.640299e-02 | -2.845846e-02 | -1.771294e-02 |
| ## 1770 | 2.375452e-03 | 8.310024e-03 | -8.033681e-03 |
| ## 1771 | 2.384348e-03 | 4.823785e-04 | -7.616615e-03 |
| ## 1772 | -1.017611e-02 | 2.122610e-02 | -1.776212e-02 |
| ## 1773 | -9.815802e-03 | 6.754093e-03 | -1.265548e-02 |
| ## 1774 | -3.052758e-03 | 1.065767e-02 | -1.174452e-02 |
| ## 1775 | 3.726972e-02 | 4.191437e-03 | -1.119318e-02 |
| ## 1776 | 3.936444e-03 | 1.062181e-02 | -1.577004e-02 |
| ## 1779 | 7.972467e-03 | 9.607462e-03 | -2.812083e-03 |
| ## 1780 | 1.907463e-02 | 4.718691e-02 | 3.515497e-03 |
| ## 1781 | 2.744583e-02 | 2.814626e-03 | -1.964152e-02 |
| ## 1782 | -3.519712e-03 | -1.719853e-02 | 5.783593e-02 |
| ## 1783 | -8.487853e-03 | 6.076725e-03 | -1.263834e-02 |
| ## 1784 | -1.341295e-02 | 1.318962e-02 | -1.770984e-03 |
| ## 1786 | -6.907589e-02 | -6.449108e-03 | -1.049116e-02 |
| ## 1787 | 2.858073e-03 | -6.929896e-02 | -6.365652e-03 |
| ## 1789 | -5.309167e-02 | 1.294350e-02 | -1.963855e-03 |
| ## 1790 | -7.256249e-03 | -1.283223e-03 | -1.255796e-02 |
| ## 1791 | -5.455631e-02 | -4.052089e-02 | 1.324695e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1792 | 2.862393e-02 | 1.258118e-02 | -1.853585e-02 |
| ## 1793 | 1.036344e-02 | -6.678863e-02 | 4.201624e-03 |
| ## 1794 | 4.350097e-05 | 1.027734e-02 | -5.005136e-03 |
| ## 1795 | 4.558753e-03 | 1.482263e-02 | 4.816495e-02 |
| ## 1798 | 1.425841e-02 | 9.634280e-03 | -2.420802e-03 |
| ## 1799 | 2.144521e-02 | 1.224796e-02 | 5.123517e-02 |
| ## 1800 | -9.868455e-03 | -6.008414e-02 | -3.212701e-02 |
| ## 1801 | -2.746230e-03 | -1.650729e-02 | -1.086645e-02 |
| ## 1802 | 4.004552e-02 | 1.074247e-02 | 7.272635e-04 |
| ## 1803 | 7.374339e-03 | 1.078719e-02 | -1.883499e-02 |
| ## 1805 | -1.779015e-02 | 6.904517e-03 | 4.475715e-02 |
| ## 1806 | -5.241483e-04 | 1.249120e-02 | -2.259211e-02 |
| ## 1808 | -7.478773e-03 | -7.037227e-03 | -5.002712e-03 |
| ## 1809 | 2.977071e-03 | 1.227288e-02 | 3.889382e-02 |
| ## 1810 | -1.481036e-03 | 1.662895e-02 | -5.069319e-03 |
| ## 1811 | 3.307403e-02 | 1.855669e-02 | -1.456483e-02 |
| ## 1812 | 8.088207e-03 | -7.538241e-03 | 5.532997e-03 |
| ## 1813 | 8.155150e-03 | -2.391317e-02 | -7.379305e-03 |
| ## 1814 | -1.818213e-02 | -1.256545e-02 | 1.995795e-03 |
| ## 1817 | 1.634992e-02 | 3.201468e-03 | 5.792995e-02 |
| ## 1818 | 1.553391e-02 | 8.105233e-03 | -1.944562e-02 |
| ## 1819 | 1.582281e-03 | -5.510260e-02 | -1.048631e-02 |
| ## 1820 | -4.694366e-04 | 1.176103e-02 | -2.494886e-02 |
| ## 1821 | -1.642695e-02 | 9.948934e-03 | -1.270098e-02 |
| ## 1822 | 3.499052e-02 | 1.285263e-02 | -1.174730e-02 |
| ## 1824 | -5.520359e-03 | 9.507962e-03 | -2.345028e-02 |
| ## 1825 | 2.482986e-02 | 1.095834e-02 | -5.513233e-03 |
| ## 1828 | -7.771451e-02 | 9.520591e-03 | 6.267464e-02 |
| ## 1829 | 8.473235e-03 | 7.080673e-03 | 6.043526e-02 |
| ## 1830 | -8.310923e-02 | -6.523150e-02 | 5.280598e-02 |
| ## 1831 | -3.176337e-03 | 7.149557e-03 | 3.249691e-02 |
| ## 1832 | 9.320205e-03 | 5.947642e-03 | -1.074801e-02 |
| ## 1833 | -5.381272e-03 | 9.913184e-03 | 4.344654e-02 |
| ## 1834 | -1.601635e-03 | 2.279724e-03 | 5.076131e-02 |
| ## 1837 | -8.549082e-03 | 9.629766e-03 | -1.410470e-02 |
| ## 1838 | 3.476348e-02 | 1.587121e-02 | -5.967134e-03 |
| ## 1839 | -1.338023e-02 | -1.858853e-03 | -2.138954e-02 |
| ## 1840 | 2.281497e-02 | -6.090222e-03 | -6.420827e-03 |
| ## 1841 | -2.778320e-03 | 5.591187e-03 | 4.809419e-02 |
| ## 1842 | -9.812633e-03 | 5.648692e-03 | 5.753541e-02 |
| ## 1844 | -9.930478e-03 | 1.112018e-02 | 4.741343e-02 |
| ## 1845 | 1.768435e-02 | -5.874061e-02 | -1.648216e-02 |
| ## 1847 | -7.371181e-03 | 7.163772e-03 | -9.101784e-03 |
| ## 1848 | 1.243692e-03 | 2.663556e-03 | -1.214480e-02 |
| ## 1849 | -9.619015e-03 | -6.345955e-02 | -2.082997e-02 |
| ## 1850 | 3.329160e-03 | 1.531166e-02 | -1.823608e-02 |
| ## 1851 | 8.328187e-04 | -6.667591e-02 | -2.270915e-02 |
| ## 1852 | -1.745885e-03 | 4.377378e-03 | -6.598017e-03 |
| ## 1853 | 2.275792e-02 | 8.187304e-03 | -1.160307e-03 |
| ## 1856 | 4.347796e-03 | -6.763262e-03 | -3.377569e-03 |
| ## 1857 | 3.773475e-02 | 1.360380e-02 | -1.536820e-02 |
| ## 1858 | 7.712019e-03 | 2.875735e-03 | 3.089253e-02 |
| ## 1859 | 7.046471e-03 | 1.074047e-02 | -2.719024e-03 |
| ## 1860 | 2.706015e-02 | 1.929695e-02 | 5.007280e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1861 | 9.269943e-03 | 8.333664e-03 | -2.091097e-02 |
| ## 1863 | 1.602929e-02 | -1.342922e-03 | -5.522501e-03 |
| ## 1864 | 1.860456e-02 | 1.980050e-02 | -1.768432e-02 |
| ## 1866 | -9.485413e-03 | 1.194836e-02 | -1.025814e-02 |
| ## 1867 | 9.912551e-03 | 1.681959e-02 | -1.910599e-02 |
| ## 1868 | 1.420071e-02 | -6.678618e-02 | -2.088184e-03 |
| ## 1869 | -8.396923e-02 | -5.878083e-02 | -9.888365e-03 |
| ## 1870 | -1.441863e-02 | 3.057847e-03 | -1.146357e-02 |
| ## 1871 | 1.416569e-02 | 1.308292e-02 | 1.709330e-03 |
| ## 1872 | 2.624461e-03 | -6.282030e-02 | -1.102993e-02 |
| ## 1875 | 1.629670e-02 | 6.732470e-03 | -1.443672e-02 |
| ## 1876 | 2.898895e-02 | 1.320372e-02 | 1.051812e-02 |
| ## 1877 | -4.587772e-03 | -4.774405e-02 | 3.825027e-02 |
| ## 1878 | -6.897143e-03 | -7.361114e-04 | 5.582184e-02 |
| ## 1879 | 1.326333e-02 | 1.902405e-02 | -5.806360e-03 |
| ## 1880 | -2.686057e-03 | 7.730551e-03 | -1.184250e-02 |
| ## 1882 | 3.951132e-02 | -6.640443e-02 | -1.388883e-02 |
| ## 1883 | 1.125687e-02 | 7.772353e-03 | -4.024272e-03 |
| ## 1885 | -1.341203e-03 | -2.855206e-02 | -9.221889e-03 |
| ## 1886 | -6.565632e-03 | -4.829873e-03 | 5.716530e-02 |
| ## 1887 | 3.144383e-02 | 1.662539e-02 | -3.593450e-03 |
| ## 1888 | 9.411007e-03 | -6.366496e-03 | 4.425878e-03 |
| ## 1889 | 4.583873e-03 | -4.953713e-02 | 4.234689e-02 |
| ## 1890 | 3.231149e-02 | 1.169951e-02 | -5.617375e-03 |
| ## 1891 | 4.342076e-03 | -4.140041e-02 | -3.245762e-03 |
| ## 1894 | 1.181424e-02 | 1.211093e-02 | -1.347771e-02 |
| ## 1895 | -6.593804e-02 | 5.432228e-03 | 5.005886e-03 |
| ## 1896 | 1.273447e-02 | 5.362710e-03 | 2.172910e-03 |
| ## 1897 | 1.561891e-02 | 1.384754e-02 | -2.209486e-02 |
| ## 1898 | 1.815617e-02 | 1.852510e-02 | -1.853178e-02 |
| ## 1899 | 2.855175e-02 | 1.512262e-02 | -1.714925e-02 |
| ## 1901 | 2.478211e-02 | 1.860406e-02 | 5.971171e-02 |
| ## 1902 | 1.135919e-02 | 1.188879e-02 | -8.632766e-03 |
| ## 1904 | 1.829849e-02 | 9.169406e-03 | 5.751472e-02 |
| ## 1905 | -9.063857e-03 | 6.226660e-03 | 3.791792e-02 |
| ## 1906 | -3.525778e-03 | 9.930105e-03 | -1.266468e-02 |
| ## 1907 | -2.768915e-03 | 1.244114e-02 | 4.522166e-02 |
| ## 1908 | 4.747756e-03 | 3.932086e-03 | -3.190223e-03 |
| ## 1909 | -1.312419e-02 | 1.069392e-02 | -1.157986e-02 |
| ## 1910 | -5.433428e-03 | 4.926728e-04 | -5.280142e-03 |
| ## 1913 | 2.783034e-03 | -2.255994e-02 | -2.071874e-02 |
| ## 1914 | -6.820619e-03 | 1.265564e-02 | -1.979715e-02 |
| ## 1915 | 1.033094e-03 | -6.252397e-02 | 5.402105e-02 |
| ## 1916 | 4.646058e-02 | 1.246276e-02 | 4.550935e-02 |
| ## 1917 | 5.868901e-03 | 5.078457e-03 | 7.467774e-03 |
| ## 1918 | 1.436614e-02 | 3.338388e-03 | 2.722935e-03 |
| ## 1920 | 1.717524e-02 | 9.264221e-03 | 6.195140e-02 |
| ## 1921 | 1.474426e-02 | 1.947818e-02 | -9.614031e-03 |
| ## 1923 | 5.496476e-03 | 1.440069e-02 | -9.972308e-03 |
| ## 1924 | 9.241601e-03 | 5.214190e-03 | -5.410961e-03 |
| ## 1925 | 2.110011e-02 | -6.758445e-02 | 5.951408e-02 |
| ## 1926 | -8.905914e-03 | 2.064047e-02 | -1.796387e-02 |
| ## 1927 | 1.672662e-02 | 9.906282e-03 | 2.706728e-03 |
| ## 1928 | 3.491837e-02 | 1.116034e-02 | -1.507549e-03 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1929 | 2.102432e-02 | 9.690912e-03 | -1.278664e-02 |
| ## 1932 | -6.552231e-03 | 1.264533e-02 | -2.667630e-02 |
| ## 1933 | 2.241678e-02 | 1.064050e-02 | -8.948856e-03 |
| ## 1934 | 5.514523e-04 | 8.277907e-03 | -2.389388e-02 |
| ## 1935 | 4.992740e-03 | 7.615930e-03 | -2.164861e-02 |
| ## 1936 | -7.415476e-03 | 5.942037e-03 | 4.948340e-02 |
| ## 1937 | 1.730610e-02 | 1.178779e-02 | -1.043361e-02 |
| ## 1939 | -4.839485e-03 | 8.992891e-04 | -2.156989e-02 |
| ## 1940 | 8.214974e-03 | 5.132118e-04 | -1.148619e-02 |
| ## 1942 | 4.886100e-03 | 3.385993e-03 | 8.361203e-03 |
| ## 1943 | -2.013454e-03 | -3.587012e-02 | -2.807561e-03 |
| ## 1944 | 3.645381e-02 | -6.837159e-02 | -1.359510e-02 |
| ## 1945 | -7.964806e-02 | -6.794558e-02 | -1.632019e-02 |
| ## 1946 | 1.252177e-02 | 1.433614e-02 | -1.973409e-02 |
| ## 1947 | 2.020260e-02 | 8.077464e-03 | -2.869418e-03 |
| ## 1948 | -1.363240e-03 | 8.484213e-03 | 5.949691e-02 |
| ## 1951 | 1.078081e-02 | -4.940185e-04 | 5.051219e-03 |
| ## 1952 | 2.749527e-02 | 9.022477e-03 | -2.825204e-03 |
| ## 1953 | -5.481392e-02 | 1.065506e-02 | -1.260862e-02 |
| ## 1954 | 8.035757e-03 | 6.257729e-03 | -4.547976e-03 |
| ## 1955 | 2.408136e-02 | 1.049453e-02 | 1.958185e-03 |
| ## 1956 | -8.948226e-03 | 1.281137e-02 | 4.935648e-02 |
| ## 1958 | 1.662641e-02 | 1.117007e-02 | -2.095934e-02 |
| ## 1959 | -1.032276e-02 | 1.252887e-03 | -1.378115e-02 |
| ## 1961 | 4.779333e-03 | 9.085132e-03 | -2.252175e-02 |
| ## 1962 | -7.454260e-03 | 1.841477e-02 | -1.318481e-02 |
| ## 1963 | 1.916389e-02 | 1.688794e-02 | -9.403643e-03 |
| ## 1964 | -9.552200e-03 | 9.459800e-03 | -1.156806e-02 |
| ## 1965 | -1.423758e-04 | 2.445332e-02 | 4.671743e-02 |
| ## 1966 | 2.611618e-02 | 1.516645e-02 | -2.042964e-02 |
| ## 1967 | 1.913453e-03 | 9.003923e-03 | -1.735256e-02 |
| ## 1970 | -7.671103e-02 | 6.867510e-03 | 5.222310e-03 |
| ## 1971 | 1.939638e-02 | 9.783975e-03 | -3.588179e-03 |
| ## 1972 | 1.160980e-02 | 1.455222e-02 | -4.997915e-03 |
| ## 1973 | 1.092421e-02 | 9.326314e-03 | -9.118332e-03 |
| ## 1974 | 2.101064e-02 | -6.651449e-02 | -1.076019e-02 |
| ## 1975 | 1.369468e-02 | 9.895578e-03 | 5.173021e-02 |
| ## 1977 | 2.467171e-02 | 1.105291e-02 | -2.000375e-02 |
| ## 1978 | 2.775518e-02 | 1.218027e-02 | -6.777931e-03 |
| ## 1980 | 4.172083e-03 | 7.547408e-03 | -6.690978e-03 |
| ## 1981 | 1.057560e-02 | -1.791524e-03 | -1.511081e-02 |
| ## 1982 | 7.122754e-03 | -3.414962e-02 | -3.950836e-03 |
| ## 1983 | 1.262536e-02 | 1.291706e-02 | -1.873712e-02 |
| ## 1984 | 1.067163e-02 | 1.025634e-02 | -8.563763e-03 |
| ## 1985 | 1.567180e-02 | 8.233553e-03 | 5.261390e-02 |
| ## 1986 | -1.041411e-03 | -6.144250e-02 | -1.831656e-02 |
| ## 1989 | 3.420960e-02 | -6.129065e-02 | -4.599987e-03 |
| ## 1990 | 5.891400e-03 | -1.299859e-03 | -2.088396e-02 |
| ## 1991 | -6.478812e-02 | 9.502425e-03 | -1.341438e-02 |
| ## 1992 | -9.857256e-03 | -2.562514e-03 | -9.892207e-03 |
| ## 1993 | 8.572461e-04 | 1.603116e-02 | -1.132213e-02 |
| ## 1994 | 2.450077e-02 | 9.482298e-03 | 2.032431e-03 |
| ## 1996 | 8.751279e-03 | 9.034226e-03 | -8.240714e-03 |
| ## 1997 | 6.969623e-03 | 8.375884e-03 | 5.561107e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 1999 | -3.131892e-03 | 7.589767e-03 | 4.939869e-02 |
| ## 2000 | 2.074667e-02 | -3.562169e-02 | 7.081872e-03 |
| ## 2001 | 1.774275e-02 | -6.521410e-02 | -4.832955e-03 |
| ## 2002 | 2.188774e-02 | 1.564247e-02 | -7.015975e-03 |
| ## 2003 | 4.747753e-03 | 1.395964e-02 | 4.434311e-03 |
| ## 2004 | -6.937017e-03 | 1.607731e-02 | -9.342994e-03 |
| ## 2005 | -8.783595e-02 | 1.110274e-02 | 2.999408e-03 |
| ## 2008 | 1.790118e-02 | 1.053083e-02 | -1.139562e-02 |
| ## 2009 | 1.873769e-02 | 6.545915e-03 | 5.290543e-03 |
| ## 2010 | 4.068348e-02 | -7.980035e-02 | -2.017293e-03 |
| ## 2011 | 1.968670e-02 | -7.077629e-02 | 5.581295e-02 |
| ## 2012 | -3.254770e-03 | -3.124631e-02 | 5.076159e-02 |
| ## 2013 | 1.245452e-03 | 7.961181e-03 | -2.258800e-02 |
| ## 2015 | 2.620806e-02 | 1.011015e-02 | -6.116459e-03 |
| ## 2016 | 7.115983e-03 | 1.007206e-02 | 6.139342e-02 |
| ## 2018 | -7.725386e-02 | -4.587204e-03 | -5.949788e-03 |
| ## 2019 | 2.136495e-02 | -6.264745e-02 | -2.124698e-02 |
| ## 2020 | 5.397038e-03 | 2.100102e-02 | -2.999306e-02 |
| ## 2021 | 1.166389e-02 | 1.019243e-02 | -1.189880e-02 |
| ## 2022 | -8.787908e-02 | 3.590280e-03 | -5.155657e-03 |
| ## 2023 | 1.513763e-02 | 1.070950e-02 | -7.982740e-03 |
| ## 2024 | 7.172796e-04 | 9.538651e-03 | -1.842626e-02 |
| ## 2027 | 1.270999e-02 | 9.701074e-03 | 1.105712e-03 |
| ## 2028 | -2.510904e-03 | 8.269909e-03 | -1.485394e-02 |
| ## 2029 | -4.762337e-02 | 4.170757e-03 | 9.791548e-04 |
| ## 2030 | 2.714255e-02 | 9.257871e-03 | 5.368363e-02 |
| ## 2031 | 2.357723e-02 | 1.281556e-02 | 7.638565e-04 |
| ## 2032 | 2.229923e-02 | -5.051083e-03 | -8.318251e-03 |
| ## 2034 | -2.551061e-03 | -6.049334e-03 | -1.801655e-02 |
| ## 2035 | 4.749190e-03 | 1.592345e-02 | 5.453601e-02 |
| ## 2037 | -7.828630e-03 | 1.280395e-02 | -2.690352e-02 |
| ## 2038 | 6.233165e-03 | -3.097187e-03 | -6.391962e-03 |
| ## 2039 | -1.473499e-02 | 1.376178e-02 | -1.649135e-02 |
| ## 2040 | 2.446167e-02 | 1.216435e-02 | 1.157031e-03 |
| ## 2041 | -6.805310e-03 | 3.362624e-03 | -2.121127e-02 |
| ## 2042 | -2.100336e-03 | 7.604010e-03 | 4.467019e-02 |
| ## 2043 | -5.612009e-03 | 1.159042e-02 | -1.170838e-02 |
| ## 2046 | 2.216967e-02 | 8.060207e-03 | -1.492939e-02 |
| ## 2047 | -7.985670e-03 | 1.012474e-02 | -2.203526e-02 |
| ## 2048 | -9.652087e-03 | -2.418375e-02 | 5.773476e-02 |
| ## 2049 | -8.872726e-03 | 8.763345e-03 | 5.227363e-02 |
| ## 2050 | 4.284068e-02 | 1.300830e-02 | 2.930135e-04 |
| ## 2051 | 6.310776e-03 | -3.374940e-02 | -8.742710e-03 |
| ## 2053 | -1.221840e-02 | -6.161245e-02 | -7.964087e-03 |
| ## 2054 | 7.933758e-03 | 1.167342e-03 | -9.500789e-03 |
| ## 2056 | 1.770919e-02 | -5.227273e-02 | -3.519062e-03 |
| ## 2057 | -9.029272e-02 | 6.852237e-04 | -7.207510e-03 |
| ## 2058 | 2.918457e-02 | 8.407713e-03 | -6.823992e-03 |
| ## 2059 | -3.716191e-03 | -1.864991e-02 | -7.689359e-03 |
| ## 2060 | -2.697088e-03 | 1.057604e-02 | -1.196520e-02 |
| ## 2061 | -4.122498e-04 | -1.594127e-02 | -1.142580e-02 |
| ## 2062 | -1.580255e-03 | -2.705221e-02 | -4.718014e-03 |
| ## 2065 | -6.286474e-02 | 7.829436e-03 | 1.362773e-03 |
| ## 2066 | 2.013185e-03 | 5.510565e-02 | -2.310555e-02 |

| | | | |
|---------|---------------|---------------|---------------|
| ## 2067 | -3.059199e-03 | 5.115846e-03 | -2.310806e-02 |
| ## 2068 | -1.107442e-02 | -3.446562e-03 | -1.100147e-02 |
| ## 2069 | 5.726459e-03 | -1.035039e-02 | -1.652420e-02 |
| ## 2070 | 6.214062e-03 | 8.091469e-03 | -6.979581e-03 |
| ## 2072 | -7.767563e-02 | -5.645485e-02 | -1.933740e-03 |
| ## 2073 | 2.330436e-02 | 1.112038e-02 | -1.033947e-02 |
| ## 2075 | 2.437075e-03 | -3.904459e-02 | -1.756975e-03 |
| ## 2076 | -9.347358e-03 | 2.334939e-02 | -2.617586e-02 |
| ## 2077 | -3.914288e-03 | 9.027719e-03 | 4.682851e-02 |
| ## 2078 | 1.908614e-02 | 1.151225e-02 | -7.065645e-03 |
| ## 2079 | -1.013892e-02 | -2.001286e-03 | 7.648943e-03 |
| ## 2080 | -1.203661e-02 | -4.558553e-03 | -1.089124e-02 |
| ## 2081 | -1.537941e-03 | 2.193795e-02 | -2.926513e-03 |
| ## 2084 | -7.816868e-03 | 8.933352e-03 | -6.128043e-03 |
| ## 2085 | -3.254514e-03 | 8.476938e-03 | -1.074979e-02 |
| ## 2086 | 5.263335e-03 | 6.156844e-03 | -5.327559e-04 |
| ## 2087 | -1.020452e-02 | -2.895134e-03 | -1.399489e-02 |
| ## 2088 | -8.876520e-03 | 5.360299e-03 | 4.689237e-02 |
| ## 2089 | 1.043676e-03 | 7.778751e-03 | -2.257809e-02 |
| ## 2091 | -1.273325e-02 | 1.504235e-02 | -2.377189e-02 |
| ## 2092 | -8.530886e-02 | 1.195044e-02 | -4.296089e-03 |
| ## 2094 | 2.027812e-02 | 5.434524e-02 | -8.042648e-04 |
| ## 2095 | 8.009529e-03 | 2.013000e-02 | 8.027812e-03 |
| ## 2096 | 2.299906e-02 | -3.877298e-02 | -4.950850e-03 |
| ## 2097 | 2.515844e-03 | -3.123675e-02 | -3.159744e-03 |
| ## 2098 | -6.294125e-03 | 8.177420e-03 | -1.196799e-02 |
| ## 2099 | 1.688589e-02 | 9.281419e-03 | -1.863831e-02 |
| ## 2100 | 5.048041e-03 | -2.101862e-02 | 5.896139e-02 |
| ## 2103 | -3.694900e-02 | 1.048724e-02 | -6.040224e-03 |
| ## 2104 | 8.218535e-04 | -4.031038e-02 | 2.966455e-02 |
| ## 2105 | 2.017087e-02 | 8.805318e-03 | -1.177813e-02 |
| ## 2106 | -9.251145e-03 | -2.608622e-03 | 4.838519e-02 |
| ## 2107 | -1.154425e-02 | 1.140816e-03 | -1.652467e-02 |
| ## 2108 | -1.000055e-02 | -1.042686e-02 | -2.075971e-02 |
| ## 2110 | -5.860188e-02 | 9.348136e-03 | -1.348944e-02 |
| ## 2111 | 4.583258e-03 | 2.175237e-02 | -1.298939e-02 |
| ## 2113 | -8.079007e-02 | -4.122085e-03 | 1.025498e-02 |
| ## 2114 | 2.753812e-03 | -5.649356e-03 | -3.569587e-03 |
| ## 2115 | -7.803578e-02 | 2.079294e-02 | 1.685888e-02 |
| ## 2116 | 6.658595e-03 | 1.168652e-02 | -1.161131e-02 |
| ## 2117 | 1.252624e-02 | 2.397022e-02 | 4.344561e-02 |
| ## 2118 | 1.666413e-02 | -2.692809e-02 | -2.214080e-02 |
| ## 2119 | -1.004220e-02 | 6.896830e-03 | 4.928098e-02 |
| ## 2122 | -5.675633e-03 | 8.143353e-03 | 3.634439e-04 |
| ## 2123 | 1.198291e-02 | 1.346379e-02 | -7.344613e-03 |
| ## 2124 | -1.630837e-03 | 7.818105e-03 | -2.181531e-02 |
| ## 2125 | 1.557222e-02 | 4.409208e-03 | -1.696066e-02 |
| ## 2126 | 2.153095e-03 | 1.667161e-02 | -2.919702e-02 |
| ## 2127 | 1.571153e-02 | 1.057080e-02 | -6.090629e-03 |
| ## 2129 | -4.775184e-02 | 9.691920e-03 | 2.783908e-02 |
| ## 2130 | -2.928581e-03 | 5.761161e-03 | 4.910139e-02 |
| ## 2132 | -9.125544e-03 | 1.143246e-02 | -1.323726e-02 |
| ## 2133 | 2.739705e-03 | 4.637230e-03 | 3.209068e-02 |
| ## 2134 | 1.036839e-02 | 9.386938e-03 | -1.231856e-02 |

| | | | | | |
|---------|---------------------|-------------------------|---------------|---------------|--|
| ## 2135 | -1.379790e-03 | 8.990604e-03 | | -9.042315e-03 | |
| ## 2136 | 1.872529e-02 | -4.275028e-02 | | -6.081447e-03 | |
| ## 2137 | 4.703593e-03 | 1.833737e-02 | | -7.521150e-04 | |
| ## 2138 | -6.106205e-03 | 1.011486e-02 | | -2.571020e-02 | |
| ## 2141 | -9.617666e-03 | 8.089022e-03 | | -1.060769e-02 | |
| ## 2142 | 1.159967e-02 | 1.571216e-02 | | -8.460307e-04 | |
| ## 2143 | 9.032043e-03 | 9.151842e-03 | | 5.872554e-02 | |
| ## 2144 | 3.407016e-03 | -9.046078e-03 | | 4.062440e-02 | |
| ## 2145 | 2.028499e-02 | 1.257059e-02 | | -9.477940e-03 | |
| ## 2146 | 3.423575e-02 | 1.501361e-02 | | -1.231615e-02 | |
| ## 2148 | -8.390100e-02 | -2.660188e-02 | | 9.870319e-03 | |
| ## 2149 | -6.162819e-02 | -6.373004e-02 | | 7.706631e-03 | |
| ## 2151 | 4.305327e-03 | 4.693996e-03 | | -4.659644e-03 | |
| ## 2152 | -1.829270e-02 | 7.778892e-03 | | -1.389261e-02 | |
| ## 2153 | 2.908070e-03 | -4.884741e-02 | | -1.906303e-02 | |
| ## | EDUCATION_Bachelors | EDUCATION_z_High.School | yojSquared | bluebook_log | |
| ## 1 | -9.501074e+00 | -1.510189e+01 | -4.659375e+03 | -3.692868e+02 | |
| ## 3 | -5.692930e-02 | -1.235163e+00 | 2.622213e+02 | 1.022342e+00 | |
| ## 4 | -3.813148e-01 | 1.705354e+00 | 2.741598e+02 | -4.168729e+00 | |
| ## 5 | 4.657214e-01 | 7.533958e-01 | -2.657739e+03 | -4.968631e+00 | |
| ## 6 | 5.650690e-01 | -2.078930e+00 | -5.179358e+01 | 2.287502e+01 | |
| ## 7 | 6.207574e-02 | -3.895115e-02 | -4.162925e+01 | 2.201800e-01 | |
| ## 8 | 5.195798e-01 | -6.492083e-01 | -1.439563e+01 | 2.868540e-01 | |
| ## 9 | 2.471924e+00 | -7.439597e+00 | -9.107786e+00 | -2.720197e-01 | |
| ## 12 | 1.224547e+00 | -1.456488e+00 | -2.023785e+02 | 8.788903e-02 | |
| ## 13 | -5.249335e-01 | -1.047752e-01 | -2.971580e+01 | -3.164812e+00 | |
| ## 14 | 1.767067e-01 | 6.176189e-01 | -1.763804e+01 | 3.876697e-01 | |
| ## 15 | 3.724758e+00 | 1.003950e+01 | -1.354564e+01 | 1.909905e-02 | |
| ## 16 | 1.617406e+01 | -9.838337e+00 | -1.345156e+01 | -7.769246e-02 | |
| ## 17 | -4.112913e-02 | -1.010921e+01 | -2.010427e+00 | -5.450211e-01 | |
| ## 19 | 1.179204e-02 | 3.909101e-03 | 8.316707e+02 | -4.871270e-01 | |
| ## 20 | 1.496223e-02 | 2.985702e-03 | 3.045606e-02 | -9.760384e+00 | |
| ## 22 | 1.430331e-02 | -4.818975e-02 | 2.286076e-02 | 1.000769e-02 | |
| ## 23 | 1.999788e-02 | -1.340072e-02 | 1.577103e-02 | 2.826580e-02 | |
| ## 24 | 2.621674e-02 | 6.677535e-03 | -2.529227e-02 | 2.594705e-02 | |
| ## 25 | -4.358210e-02 | -1.818491e-02 | -3.183253e-02 | 2.475687e-02 | |
| ## 26 | -4.367536e-02 | 5.359697e-03 | 1.830978e-02 | 1.498678e-02 | |
| ## 27 | -6.219005e-04 | 4.518116e-03 | 3.361945e-02 | 9.786853e-03 | |
| ## 28 | 2.912292e-02 | -1.121990e-02 | 2.327688e-02 | -4.998217e-02 | |
| ## 31 | -3.874541e-02 | -1.117465e-04 | 1.438813e-02 | 9.128838e-04 | |
| ## 32 | 3.182758e-03 | -1.434246e-02 | -3.955488e-02 | -2.494909e-04 | |
| ## 33 | 2.786212e-02 | -1.062193e-02 | -3.651206e-02 | 1.641822e-02 | |
| ## 34 | -3.300112e-03 | -8.092414e-03 | -5.274389e-02 | 1.111125e-02 | |
| ## 35 | 2.083302e-02 | -3.266530e-02 | -8.444706e-02 | 6.378592e-03 | |
| ## 36 | 2.488667e-02 | -1.839965e-02 | -2.576501e-03 | 1.358048e-02 | |
| ## 38 | 2.212971e-02 | -6.773680e-03 | -3.079542e-02 | 1.815114e-02 | |
| ## 39 | -4.765065e-02 | -1.582431e-02 | -3.435567e-02 | 1.137297e-02 | |
| ## 41 | 1.926881e-02 | 2.703171e-02 | -1.642059e-02 | 1.643504e-02 | |
| ## 42 | 1.418361e-02 | 3.095631e-02 | -9.830830e-03 | -8.831040e-02 | |
| ## 43 | 1.218141e-02 | 4.069692e-05 | 1.052523e-02 | -3.502216e-02 | |
| ## 44 | -8.875237e-04 | 1.994565e-02 | -4.545427e-03 | 1.859656e-02 | |
| ## 45 | 2.960549e-04 | 1.513436e-03 | -3.229621e-03 | 2.131563e-02 | |
| ## 46 | 1.749390e-02 | -2.294901e-02 | -2.381822e-03 | 7.664222e-03 | |
| ## 47 | 2.430631e-02 | -1.836003e-02 | -5.587430e-04 | -1.323208e-02 | |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 50 | 7.140241e-03 | 3.623240e-02 | 6.561453e-04 | -3.674465e-02 |
| ## 51 | -2.794847e-03 | 1.868760e-02 | 1.872261e-02 | 6.652078e-03 |
| ## 52 | 2.054208e-02 | 9.224066e-03 | 1.704554e-02 | -9.981512e-03 |
| ## 53 | 2.054767e-02 | 4.730330e-02 | -3.303688e-02 | 2.087040e-02 |
| ## 54 | 1.594655e-02 | -5.801051e-02 | -1.032443e-03 | 1.029403e-03 |
| ## 55 | 2.150470e-02 | -1.070949e-02 | 2.193183e-02 | -9.634721e-03 |
| ## 57 | 4.366919e-03 | -1.707619e-03 | 3.277721e-02 | -4.615281e-02 |
| ## 58 | 1.475756e-02 | -2.341335e-02 | -2.309397e-03 | 5.629949e-04 |
| ## 60 | 1.184918e-02 | 4.841467e-03 | -2.940861e-03 | 7.254507e-03 |
| ## 61 | -4.038390e-02 | 1.344382e-02 | 7.383604e-03 | 1.814978e-02 |
| ## 62 | 2.078810e-02 | -6.263999e-03 | 1.830459e-02 | -3.127950e-03 |
| ## 63 | 1.335502e-02 | -6.928253e-03 | 5.202041e-03 | 3.089857e-02 |
| ## 64 | 2.084767e-02 | 5.545157e-03 | 2.029257e-02 | -3.203398e-03 |
| ## 65 | 2.113633e-02 | 5.913112e-03 | 2.261547e-02 | -8.167312e-03 |
| ## 66 | -3.081314e-04 | -2.038795e-02 | -2.939084e-02 | 7.549126e-03 |
| ## 69 | -4.380154e-02 | 3.210658e-02 | 1.198184e-02 | -5.629883e-03 |
| ## 70 | 1.980315e-02 | -4.494370e-02 | 1.141678e-03 | 3.652165e-03 |
| ## 71 | 1.238065e-02 | 1.481890e-02 | 1.940770e-02 | -2.429831e-02 |
| ## 72 | 2.145597e-02 | -4.365736e-03 | 2.825091e-02 | 9.956720e-03 |
| ## 73 | -4.124561e-02 | 1.168471e-02 | 1.288315e-02 | -6.191000e-03 |
| ## 74 | 1.560547e-02 | 4.368740e-03 | 3.139111e-02 | 9.632294e-03 |
| ## 76 | 1.504440e-02 | 1.790910e-02 | 6.549331e-03 | 1.265131e-02 |
| ## 77 | 1.886609e-02 | 6.971816e-04 | 1.007829e-03 | -1.645889e-02 |
| ## 79 | -4.038766e-02 | 1.593851e-02 | -3.062865e-02 | 2.162201e-02 |
| ## 80 | 1.044774e-02 | 2.445286e-02 | 5.268084e-03 | 3.992898e-03 |
| ## 81 | 1.797456e-02 | -2.781980e-02 | 1.478287e-02 | 1.917213e-03 |
| ## 82 | -4.373039e-02 | -2.562148e-02 | -2.440218e-02 | -1.999947e-02 |
| ## 83 | 1.977709e-02 | 3.677212e-02 | 2.952454e-02 | 1.691904e-02 |
| ## 84 | 1.134106e-02 | 1.321603e-02 | 1.146136e-02 | 1.560220e-02 |
| ## 85 | -2.209734e-03 | -5.218765e-04 | -1.268173e-03 | 1.245985e-02 |
| ## 88 | 2.439584e-03 | -2.135994e-02 | -3.404536e-02 | -9.987007e-02 |
| ## 89 | -4.499475e-03 | -8.387721e-03 | 2.091553e-04 | 9.358378e-03 |
| ## 90 | 1.073316e-02 | -1.120774e-03 | 1.203721e-02 | 1.699265e-02 |
| ## 91 | -4.614162e-02 | -1.183765e-02 | 2.885380e-02 | 1.642364e-02 |
| ## 92 | 1.620586e-02 | 4.845320e-02 | -5.979865e-03 | 3.119299e-02 |
| ## 93 | 1.338087e-02 | -2.127507e-03 | 4.401321e-02 | 5.577957e-03 |
| ## 95 | 1.661108e-02 | 2.714284e-02 | 1.564056e-02 | -5.023047e-03 |
| ## 96 | 1.528096e-02 | 2.406995e-02 | 3.509800e-02 | -1.568138e-03 |
| ## 98 | -4.475221e-02 | -1.458994e-02 | 3.159748e-02 | 1.597706e-02 |
| ## 99 | -4.215087e-02 | -3.823068e-02 | 1.433527e-02 | 9.049970e-03 |
| ## 100 | 2.758921e-02 | -1.180505e-02 | 1.517969e-02 | 1.482092e-02 |
| ## 101 | 1.937518e-02 | 3.370650e-02 | -2.539379e-03 | -2.170724e-02 |
| ## 102 | -5.017964e-03 | -5.742060e-03 | -9.276730e-02 | 1.095607e-02 |
| ## 103 | -3.193211e-03 | 2.419053e-02 | 1.138296e-02 | -1.212171e-02 |
| ## 104 | -4.669768e-02 | 1.186890e-02 | -3.080899e-02 | 1.678473e-02 |
| ## 107 | 1.306221e-02 | -5.014580e-03 | 4.593436e-02 | 1.240639e-02 |
| ## 108 | 1.329509e-02 | -3.325538e-03 | 4.224797e-02 | -9.499991e-03 |
| ## 109 | -2.808143e-04 | 1.564788e-02 | -6.682207e-02 | 2.217092e-02 |
| ## 110 | 1.784994e-02 | 3.032890e-02 | -3.493768e-02 | 1.515067e-02 |
| ## 111 | 2.244066e-02 | 5.160235e-02 | 5.671622e-03 | 1.457789e-02 |
| ## 112 | -4.024079e-02 | 2.171228e-04 | 2.716681e-02 | 5.844909e-03 |
| ## 114 | 1.834672e-02 | 2.595997e-02 | 3.515261e-02 | 1.586245e-02 |
| ## 115 | -4.512436e-02 | 1.220660e-02 | -3.409980e-02 | 1.695860e-02 |
| ## 117 | 7.182754e-03 | 2.614141e-03 | -1.952550e-03 | 2.244486e-03 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 118 | -3.921907e-02 | -1.891224e-02 | 1.454393e-02 | 1.073539e-04 |
| ## 119 | 2.205340e-03 | -1.487571e-02 | 1.084217e-02 | -3.209455e-02 |
| ## 120 | -3.751665e-03 | -9.529448e-03 | -3.121522e-03 | -1.775995e-03 |
| ## 121 | 1.486523e-02 | 2.888232e-02 | 2.128634e-03 | -2.288446e-02 |
| ## 122 | 2.451659e-02 | -5.620380e-02 | 1.983338e-02 | 9.910266e-03 |
| ## 123 | 1.666328e-02 | -8.743543e-03 | 1.691893e-02 | 1.199877e-02 |
| ## 126 | -3.879312e-02 | -1.326537e-02 | 8.438195e-03 | -1.122579e-02 |
| ## 127 | -4.058390e-02 | -2.180739e-02 | 1.014441e-02 | -9.058570e-03 |
| ## 128 | 9.680233e-03 | -1.802808e-03 | -1.908998e-02 | 1.393877e-02 |
| ## 129 | 4.054046e-03 | 1.184843e-02 | 1.193068e-02 | -5.860947e-03 |
| ## 130 | -3.204751e-02 | -7.187259e-03 | -2.194705e-02 | -7.614688e-02 |
| ## 131 | 1.381252e-02 | -4.494098e-02 | 1.232663e-02 | 2.729030e-02 |
| ## 133 | -3.557345e-02 | -1.129130e-02 | -2.676663e-02 | -1.257056e-02 |
| ## 134 | 1.929863e-02 | 6.550891e-03 | -3.262956e-02 | 6.974507e-03 |
| ## 136 | -4.201583e-02 | 4.015348e-04 | -7.729847e-03 | 9.086163e-03 |
| ## 137 | 2.032416e-02 | 1.036458e-02 | 1.410843e-02 | -1.454764e-02 |
| ## 138 | -3.694058e-02 | -1.983495e-03 | 3.857552e-02 | 5.857000e-03 |
| ## 139 | 1.174751e-02 | 4.745033e-02 | 1.505192e-02 | -2.019048e-02 |
| ## 140 | 5.097836e-03 | 9.269816e-03 | 1.673131e-02 | -1.212772e-02 |
| ## 141 | 2.214785e-02 | 3.218204e-02 | -7.627342e-03 | 2.355633e-04 |
| ## 142 | -2.882952e-02 | -2.249368e-02 | 3.355894e-03 | 5.725386e-03 |
| ## 145 | -6.731464e-03 | -7.051260e-03 | -3.300555e-02 | 7.738719e-03 |
| ## 146 | 2.006706e-02 | -3.808959e-02 | 2.827378e-02 | 1.096820e-02 |
| ## 147 | 2.366890e-02 | -2.012819e-02 | -1.506808e-02 | 8.268736e-03 |
| ## 148 | 2.416227e-02 | -3.011167e-02 | 4.861471e-03 | -3.443026e-02 |
| ## 149 | 2.694758e-02 | -1.053531e-03 | -1.655944e-02 | -2.421923e-03 |
| ## 150 | 1.964178e-02 | 1.215627e-02 | 2.750289e-03 | 3.321731e-02 |
| ## 152 | 2.258941e-02 | -2.043623e-02 | 3.899463e-02 | -1.783619e-02 |
| ## 153 | -2.505222e-02 | 4.489157e-03 | 1.130734e-02 | -4.494557e-02 |
| ## 155 | 1.116320e-03 | -1.063231e-02 | 1.335261e-02 | -4.405357e-03 |
| ## 156 | -3.409586e-02 | -2.604851e-02 | 8.819445e-03 | -9.694807e-04 |
| ## 157 | 2.794955e-02 | -1.104543e-02 | -4.058444e-02 | -5.065643e-02 |
| ## 158 | 1.938927e-02 | 3.844837e-02 | 3.248769e-02 | 1.148159e-02 |
| ## 159 | 2.425937e-02 | -2.108715e-02 | -2.997111e-02 | 1.146387e-02 |
| ## 160 | 2.184808e-03 | 4.114348e-03 | 2.357198e-02 | 8.747957e-04 |
| ## 161 | -4.371771e-02 | -3.726513e-02 | -2.489033e-02 | 2.251133e-03 |
| ## 164 | 1.264004e-02 | 3.058110e-02 | 2.383855e-02 | -1.587281e-02 |
| ## 165 | 1.336499e-02 | -6.054555e-03 | 3.294752e-02 | -8.738642e-03 |
| ## 166 | -3.540399e-02 | -5.257308e-03 | -1.104701e-03 | 1.160350e-02 |
| ## 167 | 1.828410e-02 | 5.163270e-03 | 5.199462e-03 | 4.427333e-03 |
| ## 168 | -4.288720e-02 | 2.934397e-02 | -2.330152e-03 | 1.854561e-02 |
| ## 169 | 1.788206e-02 | 6.070781e-03 | -3.165721e-02 | 9.259055e-04 |
| ## 171 | 1.185057e-02 | 2.621489e-04 | 4.513281e-02 | 1.611417e-02 |
| ## 172 | -4.682694e-02 | -4.339539e-02 | 3.810742e-02 | 1.768011e-03 |
| ## 174 | -3.899262e-02 | -1.059914e-02 | -5.078071e-02 | -1.084705e-02 |
| ## 175 | -3.537897e-02 | 2.258681e-02 | 1.588620e-02 | -1.898117e-02 |
| ## 176 | -4.034079e-02 | -6.829192e-03 | 3.003466e-02 | -7.637364e-02 |
| ## 177 | 1.734903e-02 | 2.221102e-02 | -2.998076e-02 | -1.004628e-01 |
| ## 178 | -4.853994e-02 | -2.526378e-02 | 4.161170e-02 | 9.557150e-03 |
| ## 179 | 1.855573e-02 | -1.253563e-02 | -2.217665e-02 | -2.188829e-02 |
| ## 180 | 2.159354e-02 | -1.230621e-02 | 3.351450e-03 | 1.474197e-02 |
| ## 183 | -3.423778e-02 | 2.575450e-02 | 2.194721e-02 | 2.348562e-03 |
| ## 184 | 1.364624e-02 | -2.575336e-02 | 2.376948e-02 | -3.266737e-02 |
| ## 185 | 2.291572e-02 | -1.625757e-02 | 2.741402e-02 | -7.160875e-02 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 186 | 9.875816e-03 | -2.580069e-04 | -5.451679e-03 | 9.584389e-03 |
| ## 187 | 1.054255e-02 | -2.324092e-03 | 5.978124e-03 | -9.823172e-03 |
| ## 188 | -3.820644e-02 | -5.756300e-03 | -4.331534e-02 | 5.588341e-03 |
| ## 190 | -3.938514e-02 | 3.476936e-03 | -9.091794e-03 | 1.327625e-02 |
| ## 191 | 1.362523e-02 | -1.084591e-03 | 2.471702e-02 | -2.097923e-02 |
| ## 193 | 2.559678e-02 | 2.466508e-02 | -3.485881e-02 | 2.437547e-02 |
| ## 194 | 1.830140e-02 | 5.088363e-02 | 1.030209e-02 | -3.741362e-03 |
| ## 195 | -3.555180e-02 | 2.067394e-02 | 4.005187e-03 | -1.964430e-02 |
| ## 196 | 1.496118e-02 | 3.701890e-02 | -7.181865e-03 | -1.841375e-02 |
| ## 197 | 1.141223e-02 | 2.531304e-03 | 2.022913e-02 | 7.127230e-03 |
| ## 198 | 1.969507e-02 | 7.362904e-04 | -6.794387e-03 | 1.233473e-02 |
| ## 199 | 1.825837e-02 | -5.625989e-02 | 3.934926e-02 | -1.975231e-02 |
| ## 202 | 1.869124e-02 | -3.381815e-02 | 1.056888e-02 | 1.430384e-02 |
| ## 203 | 2.028357e-02 | 3.322542e-02 | 3.275486e-02 | 1.341346e-02 |
| ## 204 | 1.758296e-02 | 6.565094e-03 | 3.970333e-03 | 9.851105e-03 |
| ## 205 | 1.884673e-02 | 2.005581e-02 | -2.999569e-02 | 1.023027e-02 |
| ## 206 | 2.121913e-02 | -2.985512e-02 | 1.085336e-02 | -2.735216e-03 |
| ## 207 | 2.664739e-02 | -1.062414e-02 | -1.882990e-02 | -4.272006e-02 |
| ## 209 | 1.944876e-02 | 3.295583e-04 | 1.845442e-02 | -1.802041e-02 |
| ## 210 | 1.891208e-02 | 3.101893e-02 | -3.225370e-02 | 2.695408e-02 |
| ## 212 | 1.518093e-02 | -3.260917e-03 | -3.041891e-02 | 5.674439e-03 |
| ## 213 | 2.550336e-02 | -3.173099e-02 | -4.928537e-02 | 1.670780e-02 |
| ## 214 | 1.812825e-02 | -2.734927e-02 | -5.255100e-02 | 1.552139e-02 |
| ## 215 | 1.999934e-02 | 3.611722e-02 | -3.310290e-02 | 2.552649e-02 |
| ## 216 | 1.549740e-02 | 2.574018e-02 | 1.602479e-02 | -7.166730e-02 |
| ## 217 | -3.889444e-02 | 1.459355e-02 | 1.430616e-02 | 1.186759e-02 |
| ## 218 | 1.822015e-02 | -1.792297e-02 | 2.653087e-02 | 7.885572e-04 |
| ## 221 | -3.747242e-02 | 2.993829e-03 | 1.548689e-02 | 8.626552e-03 |
| ## 222 | 1.478208e-02 | 2.264391e-02 | -2.398717e-02 | 1.390246e-02 |
| ## 223 | -4.029417e-02 | 3.657289e-03 | -1.846478e-02 | -1.438588e-03 |
| ## 224 | 2.110926e-02 | 1.026285e-02 | -2.219381e-02 | 1.371663e-02 |
| ## 225 | 7.930437e-03 | 1.917000e-02 | -3.857944e-02 | 4.292034e-03 |
| ## 226 | 1.438658e-02 | 7.379338e-05 | 2.353543e-02 | 6.957081e-03 |
| ## 228 | 1.591106e-02 | -5.597090e-02 | 1.321991e-02 | 2.627890e-02 |
| ## 229 | 1.290288e-02 | 9.012564e-03 | -5.612031e-02 | 1.212851e-02 |
| ## 231 | 1.316108e-02 | 2.005577e-03 | -1.655752e-02 | -6.895359e-03 |
| ## 232 | -4.117098e-02 | -3.955477e-03 | 5.134174e-02 | -2.447560e-03 |
| ## 233 | 1.783919e-02 | -9.834816e-03 | -4.549893e-02 | 1.251404e-04 |
| ## 234 | 2.034039e-02 | 3.082862e-02 | 5.021768e-03 | 1.190840e-02 |
| ## 235 | 2.262306e-02 | -5.377664e-02 | 1.444373e-02 | 2.873919e-03 |
| ## 236 | 1.273789e-02 | -1.043552e-03 | -6.639561e-03 | 9.137940e-03 |
| ## 237 | 1.407675e-02 | 3.817479e-03 | 3.027641e-02 | 1.284295e-02 |
| ## 240 | 1.274946e-02 | -1.838630e-03 | 4.724398e-03 | -1.582435e-02 |
| ## 241 | 1.804441e-02 | 4.196142e-02 | 2.450241e-02 | 1.336068e-02 |
| ## 242 | -3.157180e-03 | -6.636477e-03 | -1.579312e-02 | 1.258265e-02 |
| ## 243 | -4.278415e-02 | 7.826302e-03 | 2.105140e-02 | 1.793880e-02 |
| ## 244 | 1.749088e-02 | 3.700857e-02 | 2.541588e-02 | 1.551608e-02 |
| ## 245 | 8.746335e-03 | -1.560111e-03 | -3.211632e-02 | 3.270925e-02 |
| ## 247 | 1.389091e-02 | -2.623316e-02 | 1.316303e-02 | -1.012587e-02 |
| ## 248 | -2.727800e-03 | -1.598092e-02 | -7.551093e-03 | 8.570166e-03 |
| ## 250 | -2.944193e-02 | -4.085726e-03 | 1.860080e-02 | 9.015201e-03 |
| ## 251 | 1.263278e-02 | -3.473580e-02 | 9.405329e-03 | -5.284331e-03 |
| ## 252 | 1.324808e-02 | -1.240540e-02 | 8.446200e-03 | -1.091030e-01 |
| ## 253 | 3.575114e-03 | -1.651900e-02 | -4.495202e-02 | -4.909433e-03 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 254 | -4.349069e-03 | 9.248150e-03 | 1.275544e-02 | 1.895603e-02 |
| ## 255 | -2.902907e-02 | 1.655834e-02 | 1.241598e-02 | -6.157291e-02 |
| ## 256 | 3.755764e-03 | 4.464022e-03 | 8.224904e-03 | -1.081294e-01 |
| ## 259 | -3.698257e-02 | -2.228821e-02 | -2.609689e-02 | -9.959878e-02 |
| ## 260 | 1.449332e-02 | -1.173772e-03 | 6.862159e-03 | 1.266928e-02 |
| ## 261 | 1.799255e-02 | 4.442112e-02 | 3.921837e-02 | 1.078859e-02 |
| ## 262 | 1.816806e-02 | 8.154920e-03 | -1.765789e-02 | 1.027024e-02 |
| ## 263 | -4.372847e-03 | 1.600256e-02 | -4.963431e-02 | -1.498536e-02 |
| ## 264 | 2.465998e-02 | -3.700029e-02 | -1.132439e-02 | -2.935816e-05 |
| ## 266 | -4.326011e-02 | 4.316437e-03 | -7.871817e-03 | 3.648218e-03 |
| ## 267 | 4.765545e-03 | 1.726103e-02 | 2.052348e-02 | 1.904187e-02 |
| ## 269 | 1.682364e-02 | -4.363368e-02 | 3.318160e-02 | 4.869359e-03 |
| ## 270 | 2.675350e-03 | -9.954708e-03 | 9.258565e-03 | 1.371805e-02 |
| ## 271 | -2.616629e-04 | 1.442834e-02 | 1.512817e-02 | 3.545601e-04 |
| ## 272 | -5.034484e-02 | -4.105321e-02 | 3.139267e-02 | -3.899200e-02 |
| ## 273 | 5.253572e-03 | -2.550103e-03 | 2.226895e-02 | 1.568386e-02 |
| ## 274 | -2.805630e-02 | -2.251629e-02 | 1.114117e-02 | -2.450090e-03 |
| ## 275 | 2.976393e-03 | 1.531586e-02 | 2.930632e-03 | 1.108810e-02 |
| ## 278 | 1.545015e-02 | 1.889019e-02 | -2.711310e-02 | 1.808281e-02 |
| ## 279 | 2.768704e-03 | -1.039139e-02 | 1.219689e-02 | 1.166645e-02 |
| ## 280 | 1.419744e-02 | 8.286694e-03 | 1.534946e-02 | -5.055313e-04 |
| ## 281 | 1.416264e-02 | -3.733589e-03 | 2.021529e-02 | -1.609240e-02 |
| ## 282 | -4.363551e-02 | -2.485129e-02 | -2.195024e-02 | 1.149872e-02 |
| ## 283 | 2.457401e-02 | -1.829965e-02 | -3.267187e-02 | 2.452543e-03 |
| ## 285 | -3.664693e-02 | 2.959821e-02 | 2.287765e-02 | 2.168402e-03 |
| ## 286 | -3.976214e-02 | -6.971813e-03 | 3.055750e-02 | 1.627379e-02 |
| ## 288 | 1.788695e-02 | -2.485029e-02 | -1.027627e-02 | -4.804870e-03 |
| ## 289 | 1.520378e-02 | 1.417465e-03 | 5.421259e-03 | 1.139201e-02 |
| ## 290 | 1.918436e-02 | 6.040416e-03 | -6.140356e-03 | 8.088768e-03 |
| ## 291 | -1.441554e-03 | -2.138605e-02 | 3.783819e-02 | -6.457200e-04 |
| ## 292 | 1.669037e-02 | -4.429668e-03 | -2.717093e-02 | 2.422101e-02 |
| ## 293 | 7.870510e-03 | -5.429674e-03 | -2.690397e-02 | 1.899791e-02 |
| ## 294 | 1.163733e-02 | 3.212658e-05 | 3.652382e-02 | 6.048242e-03 |
| ## 297 | 6.600963e-03 | 5.934266e-03 | -4.935893e-02 | 1.192920e-02 |
| ## 298 | 1.485812e-02 | -2.121659e-02 | -2.909863e-04 | -1.303491e-03 |
| ## 299 | 3.715041e-03 | 8.255391e-03 | 1.229527e-02 | 1.154927e-02 |
| ## 300 | 2.626478e-02 | -1.162002e-02 | 5.803314e-03 | 1.629719e-03 |
| ## 301 | 2.025248e-02 | -1.854537e-02 | 1.844450e-02 | 1.042741e-02 |
| ## 302 | 2.446137e-02 | -3.003933e-02 | -2.893325e-02 | 8.650104e-03 |
| ## 304 | 1.823864e-02 | -2.654706e-02 | -1.448885e-02 | -1.240485e-02 |
| ## 305 | 1.689420e-02 | -2.045391e-02 | 6.415047e-03 | 1.572095e-02 |
| ## 307 | -1.559557e-03 | 1.303368e-02 | 8.602946e-03 | 1.498429e-02 |
| ## 308 | 2.100779e-02 | 1.255492e-02 | 1.608690e-02 | 1.121428e-02 |
| ## 309 | -3.883879e-02 | 1.113865e-02 | -4.113315e-02 | 2.853611e-02 |
| ## 310 | 1.095469e-02 | 1.015073e-02 | -1.638655e-02 | 1.540902e-02 |
| ## 311 | 4.512302e-04 | 2.332645e-02 | -1.458489e-02 | 1.411773e-02 |
| ## 312 | 1.576443e-02 | 3.787319e-02 | -5.644109e-02 | 5.919071e-03 |
| ## 313 | 1.343475e-02 | 5.191165e-03 | 2.683894e-02 | 5.245477e-03 |
| ## 316 | -3.775322e-02 | -1.077828e-02 | 2.129439e-02 | 1.364199e-02 |
| ## 317 | 1.289998e-02 | 4.615750e-03 | -3.547645e-03 | 4.942868e-03 |
| ## 318 | 2.003107e-02 | -5.458103e-04 | -4.339089e-02 | 2.047026e-02 |
| ## 319 | 1.420165e-02 | 3.843381e-02 | 2.122720e-02 | 1.510318e-02 |
| ## 320 | 1.531099e-02 | -4.725541e-02 | 8.065202e-03 | 2.274576e-02 |
| ## 321 | 1.748394e-02 | 1.930652e-02 | 1.214809e-02 | 1.910763e-02 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 323 | 2.272217e-02 | -1.056216e-02 | -1.944315e-02 | -3.136681e-02 |
| ## 324 | -2.979233e-02 | 5.555158e-03 | -4.234347e-03 | 9.735689e-03 |
| ## 326 | 2.276739e-02 | -4.035522e-02 | 1.731407e-02 | 1.088258e-02 |
| ## 327 | 3.928734e-03 | 5.632089e-03 | -6.623202e-03 | 1.346387e-02 |
| ## 328 | 1.880238e-02 | 2.033386e-03 | -3.853334e-03 | -1.694667e-02 |
| ## 329 | 1.988486e-02 | -2.251675e-02 | 2.362495e-02 | 3.027616e-03 |
| ## 330 | -3.997361e-02 | -4.171680e-04 | 5.033659e-03 | 9.876273e-03 |
| ## 331 | 1.776460e-02 | 1.585322e-03 | 1.418766e-02 | -1.165748e-01 |
| ## 332 | 1.400412e-02 | -2.278514e-05 | -3.716776e-03 | -1.957335e-02 |
| ## 335 | 1.274007e-02 | 1.655637e-03 | 5.724261e-03 | 1.172203e-02 |
| ## 336 | 2.024047e-02 | -5.382036e-03 | 2.176080e-02 | -5.450513e-04 |
| ## 337 | 8.059062e-03 | 3.444941e-03 | -3.582882e-02 | 2.852932e-02 |
| ## 338 | 1.928964e-02 | -3.759846e-02 | 1.622114e-02 | 1.505804e-02 |
| ## 339 | 1.603482e-02 | -1.141543e-02 | 8.050733e-03 | -9.081501e-02 |
| ## 340 | -4.525322e-02 | 3.596510e-02 | -2.807292e-02 | -2.432158e-03 |
| ## 342 | -5.961455e-04 | 3.128395e-02 | -5.581849e-02 | 1.880861e-02 |
| ## 343 | 2.230752e-02 | 3.217207e-02 | -1.347811e-02 | -4.926915e-03 |
| ## 345 | 1.240980e-02 | 1.028742e-02 | -3.474539e-02 | -2.404998e-03 |
| ## 346 | -3.666791e-02 | 4.896776e-03 | 1.251522e-02 | -5.747343e-02 |
| ## 347 | 1.651258e-02 | 1.829660e-02 | 5.369823e-03 | 3.330800e-03 |
| ## 348 | -8.969839e-04 | -7.874024e-03 | -1.994572e-03 | -5.486513e-04 |
| ## 349 | 2.309260e-02 | -3.305136e-02 | 8.197348e-03 | 1.267181e-02 |
| ## 350 | -4.724916e-02 | -8.145715e-03 | -3.337580e-02 | -2.862015e-03 |
| ## 351 | 2.646191e-02 | -2.465134e-02 | 2.325536e-02 | 8.754974e-03 |
| ## 354 | 9.245459e-04 | -8.239887e-03 | 8.905172e-04 | -9.958866e-03 |
| ## 355 | 1.722582e-02 | 3.961214e-02 | 1.631036e-03 | 1.818932e-02 |
| ## 356 | 1.885708e-02 | 1.287607e-02 | -5.157077e-02 | -8.115457e-03 |
| ## 357 | -3.904787e-02 | 1.849486e-02 | 7.641504e-03 | -1.299514e-03 |
| ## 358 | -3.736734e-02 | -6.962435e-03 | -7.957105e-03 | 1.879774e-02 |
| ## 359 | -2.089254e-04 | 1.892997e-02 | -1.432295e-02 | 1.277007e-02 |
| ## 361 | 6.261842e-03 | 1.601319e-03 | 9.858129e-03 | -2.447732e-03 |
| ## 362 | 2.233752e-02 | 3.197096e-02 | -4.367971e-02 | -5.907290e-03 |
| ## 364 | 1.800620e-02 | -1.182890e-02 | 1.095945e-02 | 3.878043e-03 |
| ## 365 | -3.521547e-02 | -4.820663e-03 | -3.296812e-02 | -1.016813e-02 |
| ## 366 | 1.671871e-03 | -2.029709e-02 | -2.373558e-02 | 2.321346e-02 |
| ## 367 | 2.565609e-02 | -4.894066e-02 | 1.841943e-02 | -1.020030e-03 |
| ## 368 | -4.280065e-02 | 8.840694e-03 | 1.801977e-02 | 1.416249e-02 |
| ## 369 | 3.308285e-03 | 2.517123e-02 | -4.153644e-02 | -3.077128e-02 |
| ## 370 | 1.953518e-02 | 2.568227e-02 | 1.502628e-02 | 1.164165e-02 |
| ## 373 | 2.025803e-02 | 2.556154e-02 | 2.816735e-02 | -3.109892e-03 |
| ## 374 | 2.831120e-02 | -3.095230e-03 | 4.501424e-03 | -1.832568e-03 |
| ## 375 | 2.104785e-02 | 8.682321e-03 | 1.484217e-02 | -1.161810e-02 |
| ## 376 | 1.615235e-02 | 3.719889e-02 | 8.727675e-03 | 1.554386e-02 |
| ## 377 | -4.409092e-02 | 8.505259e-03 | -1.492925e-02 | 1.200776e-02 |
| ## 378 | 2.153294e-02 | -3.022268e-02 | 3.214609e-02 | -2.611528e-02 |
| ## 380 | 1.400314e-02 | 8.821463e-04 | -4.343790e-02 | 1.161790e-02 |
| ## 381 | -3.830234e-02 | 1.635351e-02 | -5.942344e-03 | -5.634970e-03 |
| ## 383 | 1.716255e-02 | -8.928459e-02 | 2.031177e-02 | -2.130778e-03 |
| ## 384 | -8.813432e-04 | -7.440934e-04 | -2.966142e-02 | -3.166477e-02 |
| ## 385 | 2.107603e-02 | 2.924988e-03 | 4.757566e-03 | 1.346822e-02 |
| ## 386 | 2.410052e-02 | -7.405686e-03 | -1.774976e-02 | -6.218308e-02 |
| ## 387 | 1.457497e-02 | 3.965846e-02 | 5.258811e-03 | 9.817080e-03 |
| ## 388 | 2.924082e-02 | -3.054992e-02 | 1.798062e-02 | -2.536469e-03 |
| ## 389 | 1.233542e-02 | 4.388010e-03 | -3.743989e-02 | -8.714343e-03 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 392 | 6.618745e-03 | -3.503928e-02 | -9.947226e-03 | 6.458563e-03 |
| ## 393 | -3.672558e-02 | 5.858980e-03 | -4.452453e-02 | 2.528288e-02 |
| ## 394 | 1.473451e-02 | 2.911325e-02 | 2.957193e-02 | 6.968531e-03 |
| ## 395 | 1.160702e-02 | 3.005292e-02 | -1.136190e-02 | -1.239240e-02 |
| ## 396 | -4.416779e-02 | -3.983999e-02 | -3.061259e-03 | 9.095774e-03 |
| ## 397 | -4.148747e-02 | 1.120458e-02 | -2.980118e-02 | 1.357438e-02 |
| ## 399 | 3.991286e-03 | 1.077523e-02 | 3.802768e-03 | 1.474065e-02 |
| ## 400 | 2.094565e-02 | 1.727740e-03 | 1.739407e-02 | 1.037101e-02 |
| ## 402 | -1.265573e-03 | -2.828406e-03 | -1.755456e-02 | -6.865644e-02 |
| ## 403 | 1.546156e-02 | -5.864112e-03 | 1.679238e-02 | -2.399361e-02 |
| ## 404 | 1.227163e-02 | 5.356454e-03 | -3.494317e-02 | -6.387115e-04 |
| ## 405 | 2.583305e-02 | -1.008751e-02 | 7.575972e-03 | 1.493174e-02 |
| ## 406 | 2.250881e-02 | -3.857015e-02 | 2.421031e-02 | 1.456845e-02 |
| ## 407 | 2.361875e-02 | 2.822157e-02 | 5.622051e-03 | -1.835594e-02 |
| ## 408 | 1.422968e-02 | -1.789522e-03 | 3.692927e-02 | -4.328162e-03 |
| ## 411 | 1.884405e-02 | -3.113449e-02 | 3.573607e-02 | -1.111293e-01 |
| ## 412 | 1.995457e-02 | -3.517333e-02 | 1.487260e-02 | 9.935280e-03 |
| ## 413 | -3.930822e-02 | -7.078548e-03 | 1.010702e-02 | -1.610156e-02 |
| ## 414 | 2.331030e-02 | 4.991364e-02 | -8.163922e-03 | -2.578378e-02 |
| ## 415 | 3.727545e-04 | 1.338110e-02 | 5.319366e-03 | 1.223587e-02 |
| ## 416 | 1.939741e-02 | 1.760393e-03 | 2.010330e-02 | -4.841996e-03 |
| ## 418 | -3.857443e-02 | -9.064617e-05 | 1.882322e-02 | -5.155418e-03 |
| ## 419 | 8.784942e-03 | 1.994457e-03 | -7.946515e-03 | -3.415743e-02 |
| ## 421 | -4.242985e-02 | 6.518957e-03 | -2.910551e-02 | 1.008628e-02 |
| ## 422 | 1.426302e-02 | 2.204064e-02 | 2.964667e-02 | -7.569305e-03 |
| ## 423 | 1.350094e-02 | -1.964607e-03 | -2.591385e-02 | 1.757775e-02 |
| ## 424 | 1.989839e-02 | 1.234692e-03 | 2.512707e-02 | 1.197388e-02 |
| ## 425 | -2.561908e-02 | 2.341119e-03 | -2.262867e-02 | -2.207161e-03 |
| ## 426 | -3.776926e-02 | 2.105685e-02 | 2.265358e-02 | 2.161237e-03 |
| ## 427 | 1.689624e-02 | 3.106701e-02 | -3.126642e-02 | 1.585234e-02 |
| ## 430 | 1.875835e-02 | 4.493872e-02 | 3.245818e-02 | 1.695719e-02 |
| ## 431 | 1.605334e-02 | 3.643821e-02 | -1.973837e-02 | 9.495113e-03 |
| ## 432 | -4.018790e-02 | -2.072228e-03 | 5.691199e-03 | 1.248413e-02 |
| ## 433 | -2.437577e-03 | -1.081831e-02 | 2.446755e-02 | -7.741356e-02 |
| ## 434 | -1.998249e-03 | 1.519511e-02 | 1.075378e-02 | 1.655086e-02 |
| ## 435 | -4.685337e-02 | -2.392941e-03 | 1.371824e-02 | 1.641131e-02 |
| ## 437 | 1.681457e-02 | 2.609503e-02 | -7.297152e-03 | 1.356733e-02 |
| ## 438 | 1.874621e-02 | 3.268146e-03 | 2.057647e-02 | 2.659677e-03 |
| ## 440 | 1.547094e-02 | -3.563269e-02 | 2.296761e-03 | 4.796221e-03 |
| ## 441 | -4.127781e-02 | -3.350558e-02 | 3.743837e-03 | -4.312317e-03 |
| ## 442 | 1.303499e-02 | 1.598569e-02 | -2.459176e-02 | 3.430358e-03 |
| ## 443 | 1.618860e-02 | 1.763001e-03 | 1.611896e-02 | -8.575000e-03 |
| ## 444 | -3.310417e-02 | -2.432896e-02 | -1.583803e-02 | 1.618754e-02 |
| ## 445 | -3.706549e-02 | -3.318739e-02 | -2.112336e-02 | -3.455903e-03 |
| ## 446 | -1.010186e-03 | 3.877146e-03 | 1.069342e-02 | 3.670369e-03 |
| ## 449 | 1.633718e-02 | -5.111585e-03 | -9.650106e-03 | 7.697522e-03 |
| ## 450 | -3.877968e-02 | 1.218541e-02 | -1.685949e-02 | 1.297700e-02 |
| ## 451 | 2.083395e-02 | 3.516341e-02 | -3.505040e-02 | 1.470061e-02 |
| ## 452 | 1.614208e-02 | -4.133359e-02 | 1.006277e-02 | 1.141808e-03 |
| ## 453 | 2.211369e-03 | -9.653436e-03 | 1.172620e-02 | 1.051179e-02 |
| ## 454 | 1.507432e-02 | 2.219233e-02 | -5.356729e-03 | 8.010823e-03 |
| ## 456 | 5.943919e-03 | 1.387736e-02 | 2.059808e-02 | 5.511400e-03 |
| ## 457 | -2.759801e-02 | -5.213110e-03 | 6.908956e-03 | 4.435918e-03 |
| ## 459 | -2.459718e-02 | 9.251627e-03 | -1.882170e-02 | 1.349761e-02 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 460 | 2.528264e-02 | -3.524356e-02 | -1.144876e-02 | -1.655678e-02 |
| ## 461 | 1.692527e-02 | -4.425309e-02 | -1.674512e-02 | 1.086807e-02 |
| ## 462 | 1.443100e-02 | -9.092252e-03 | -1.675899e-02 | 1.851963e-03 |
| ## 463 | 1.505375e-02 | 3.506546e-03 | 1.729858e-02 | 9.109933e-03 |
| ## 464 | 2.038407e-02 | 3.526893e-02 | 1.470877e-02 | -1.392471e-02 |
| ## 465 | 4.739321e-03 | 4.874849e-03 | 2.443891e-02 | -1.434201e-02 |
| ## 468 | 1.415898e-02 | 1.070567e-03 | 1.534934e-02 | -9.127387e-02 |
| ## 469 | -6.528995e-03 | -1.031069e-02 | 1.005710e-03 | 1.448208e-02 |
| ## 470 | -4.262109e-02 | 9.620072e-03 | -6.483411e-02 | -1.520390e-02 |
| ## 471 | 2.531199e-02 | -2.616980e-02 | -6.130297e-03 | -2.923516e-02 |
| ## 472 | -3.940122e-02 | 1.652930e-02 | -2.988635e-03 | 1.494832e-02 |
| ## 473 | -3.100212e-02 | 1.578044e-03 | 2.317224e-03 | 9.281070e-03 |
| ## 475 | 1.981802e-03 | 1.284005e-02 | -2.125177e-02 | 2.539374e-02 |
| ## 476 | 1.354203e-02 | 2.404820e-02 | -5.168037e-03 | -9.034063e-04 |
| ## 478 | 2.003829e-02 | -4.765646e-03 | 1.189314e-02 | 4.748597e-04 |
| ## 479 | 2.025911e-02 | -5.179241e-04 | -3.833783e-02 | 1.021196e-02 |
| ## 480 | -2.728805e-02 | -2.190026e-02 | -2.697184e-02 | -1.335855e-02 |
| ## 481 | -2.757420e-02 | 5.925866e-03 | -1.185937e-02 | 8.683560e-03 |
| ## 482 | -4.981189e-02 | -4.334723e-02 | 1.525494e-02 | 1.357692e-02 |
| ## 483 | 5.715055e-03 | 1.831202e-02 | 1.551788e-03 | -2.779449e-03 |
| ## 484 | -4.968282e-02 | 8.678005e-03 | 2.997033e-02 | -3.625989e-03 |
| ## 487 | -4.420089e-02 | -1.968734e-02 | 2.080420e-02 | -1.125044e-01 |
| ## 488 | 7.855330e-03 | 2.551005e-03 | 1.423078e-02 | 7.190464e-03 |
| ## 489 | 1.576615e-02 | 2.632080e-02 | -1.318711e-02 | 1.664705e-02 |
| ## 490 | 4.868241e-03 | -1.356490e-02 | -4.718519e-02 | 2.339825e-02 |
| ## 491 | -4.492681e-02 | -1.477964e-02 | 1.890135e-02 | 1.123419e-02 |
| ## 492 | -4.096107e-02 | -2.322366e-02 | -1.414940e-02 | -1.684716e-02 |
| ## 494 | 1.691082e-02 | -2.022181e-02 | 2.047219e-02 | 2.094464e-02 |
| ## 495 | 1.302558e-02 | -5.890205e-03 | 2.885314e-03 | -9.172624e-03 |
| ## 497 | 1.892290e-02 | 5.180525e-03 | -3.186755e-02 | 6.465281e-03 |
| ## 498 | 2.159631e-02 | 4.907512e-02 | 8.614234e-03 | 1.120816e-02 |
| ## 499 | -2.961219e-02 | -1.229539e-02 | -3.521963e-02 | 1.542076e-02 |
| ## 500 | 3.039661e-03 | -3.580372e-03 | 1.795990e-03 | -6.320302e-03 |
| ## 501 | -4.050960e-02 | 2.088862e-03 | -3.259924e-03 | 1.023892e-02 |
| ## 502 | 1.262785e-02 | 2.442931e-02 | 2.250961e-02 | 3.204275e-03 |
| ## 503 | -5.313577e-03 | 3.648287e-03 | -3.906304e-02 | 2.037675e-02 |
| ## 506 | 1.639665e-02 | 3.673615e-02 | 1.850989e-02 | 1.588148e-02 |
| ## 507 | -3.873890e-02 | 8.087148e-03 | 1.392567e-02 | -3.045710e-03 |
| ## 508 | 1.781818e-02 | -4.430485e-02 | -2.519016e-02 | 1.270236e-02 |
| ## 509 | 2.557295e-02 | -2.983398e-02 | 1.002177e-02 | 3.921076e-03 |
| ## 510 | 1.034529e-02 | -2.499442e-02 | 4.819788e-03 | -1.974080e-04 |
| ## 511 | -5.017093e-02 | -1.880628e-02 | -3.179778e-02 | 1.576898e-02 |
| ## 513 | -3.760947e-03 | -2.005310e-02 | 1.060583e-02 | -2.612873e-02 |
| ## 514 | 2.320073e-02 | 3.015155e-02 | -4.419161e-02 | 6.805467e-03 |
| ## 516 | 1.116847e-02 | -3.071573e-03 | -1.971320e-02 | -2.332388e-03 |
| ## 517 | 5.086999e-03 | 8.162809e-03 | 1.394147e-02 | -1.619620e-02 |
| ## 518 | 1.940257e-02 | 2.883263e-03 | 1.285332e-02 | 6.492136e-03 |
| ## 519 | 1.945030e-02 | 2.390832e-02 | 2.681290e-02 | 1.344065e-02 |
| ## 520 | -4.019493e-02 | 4.378794e-03 | 1.470225e-02 | -6.080353e-03 |
| ## 521 | 1.320486e-02 | 5.235970e-03 | -4.044196e-03 | 1.020374e-02 |
| ## 522 | 1.108002e-02 | 1.299910e-02 | 9.702822e-03 | -3.167174e-02 |
| ## 525 | 1.276854e-02 | -6.648606e-03 | -3.461793e-02 | -1.466020e-02 |
| ## 526 | 1.676585e-02 | -8.137534e-03 | 3.442391e-02 | 1.126499e-02 |
| ## 527 | 2.131865e-02 | -3.184829e-02 | -1.762986e-02 | 1.743832e-02 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 528 | 2.381420e-02 | -4.245938e-02 | 2.329444e-02 | -2.772173e-02 |
| ## 529 | 1.585642e-02 | 3.219118e-02 | -3.755284e-03 | 1.252827e-02 |
| ## 530 | 1.524675e-02 | -1.533470e-03 | -8.828445e-03 | 1.081377e-02 |
| ## 532 | -3.862473e-02 | 8.693700e-03 | 4.530422e-03 | 7.833671e-03 |
| ## 533 | -4.007836e-02 | 1.550026e-02 | -5.841420e-03 | 1.568869e-02 |
| ## 535 | -1.626665e-03 | -1.696284e-02 | -3.148114e-02 | 1.577978e-02 |
| ## 536 | 2.050822e-02 | 3.303196e-02 | 1.348172e-02 | 1.349327e-02 |
| ## 537 | 2.285796e-02 | 2.736783e-02 | 2.288042e-02 | 1.601183e-02 |
| ## 538 | -4.528262e-02 | 3.887178e-03 | -1.807792e-02 | 1.417269e-02 |
| ## 539 | -2.417677e-03 | -9.047991e-03 | 2.595034e-02 | 1.602097e-02 |
| ## 540 | 1.562557e-02 | 2.485387e-02 | 2.604254e-02 | -1.098298e-01 |
| ## 541 | -4.383139e-02 | 5.737848e-03 | 2.103957e-02 | 4.694390e-03 |
| ## 544 | -2.379924e-02 | 7.469254e-03 | 1.759233e-02 | 9.864146e-03 |
| ## 545 | 2.149720e-02 | -1.611523e-02 | 1.488662e-02 | 2.474555e-03 |
| ## 546 | 1.951020e-02 | 5.633962e-03 | 9.211209e-03 | 6.024077e-03 |
| ## 547 | 2.236860e-02 | -2.801311e-02 | -5.509651e-02 | -5.516978e-02 |
| ## 548 | 1.402535e-02 | 6.337572e-03 | 1.703966e-02 | 1.132966e-02 |
| ## 549 | 2.435852e-02 | -3.100110e-02 | 6.081131e-03 | 6.872192e-03 |
| ## 551 | -4.173829e-02 | 1.413860e-02 | 2.569001e-02 | 6.885297e-03 |
| ## 552 | 9.799566e-03 | 4.925684e-03 | 1.826947e-02 | -5.770631e-04 |
| ## 554 | 2.705024e-02 | -1.427794e-02 | 1.816763e-02 | 6.929787e-03 |
| ## 555 | 4.040244e-03 | -1.111878e-02 | 1.799985e-02 | 1.327807e-02 |
| ## 556 | 2.743583e-02 | -8.303134e-03 | 2.072966e-02 | 4.553417e-04 |
| ## 557 | 1.694276e-02 | 3.414311e-02 | 2.446068e-02 | 8.626517e-03 |
| ## 558 | 1.681429e-02 | 1.962210e-02 | 1.724361e-03 | -1.600083e-02 |
| ## 559 | 2.106939e-02 | 2.699140e-02 | 1.033338e-02 | -3.146047e-02 |
| ## 560 | 1.861817e-02 | -4.464192e-02 | 3.583862e-02 | 1.471599e-02 |
| ## 563 | 2.414079e-02 | -1.230751e-02 | 2.278005e-02 | -3.790141e-02 |
| ## 564 | 2.584890e-02 | -3.183280e-02 | 2.184903e-02 | 1.249293e-02 |
| ## 565 | 1.455854e-02 | 3.125445e-03 | -4.574638e-02 | 1.184807e-02 |
| ## 566 | 1.317170e-02 | 1.563300e-03 | -1.140720e-02 | 1.242831e-02 |
| ## 567 | 2.256128e-02 | -4.038848e-03 | -4.147246e-02 | 1.931344e-02 |
| ## 568 | -3.722561e-02 | 2.028530e-02 | 4.944382e-03 | 1.377105e-02 |
| ## 570 | 2.188969e-02 | 4.663426e-02 | 1.488838e-02 | 6.866898e-03 |
| ## 571 | 1.959259e-02 | 2.548841e-02 | 4.468832e-02 | -9.095721e-03 |
| ## 573 | 1.273090e-03 | -8.669687e-03 | -4.898915e-03 | 6.981465e-03 |
| ## 574 | 1.996670e-02 | 6.092886e-03 | 1.878116e-02 | 9.382589e-03 |
| ## 575 | 1.678584e-02 | 5.082979e-03 | -1.653324e-03 | 9.701744e-03 |
| ## 576 | -4.280842e-02 | 1.791235e-02 | -3.674485e-02 | 1.065141e-02 |
| ## 577 | 1.437958e-02 | 3.857596e-02 | 1.045393e-03 | -4.327083e-03 |
| ## 578 | 1.465627e-02 | 1.398795e-03 | 8.855420e-03 | 2.703358e-03 |
| ## 579 | 1.899189e-02 | 3.691217e-02 | 2.893211e-02 | -2.301488e-04 |
| ## 582 | 1.522966e-02 | -1.176761e-02 | 3.178304e-02 | -9.718715e-02 |
| ## 583 | 2.359743e-02 | -5.775161e-03 | 3.323283e-02 | 1.950690e-02 |
| ## 584 | 2.101802e-02 | 3.704372e-02 | 1.082382e-02 | -3.332768e-02 |
| ## 585 | -3.232383e-03 | -8.954973e-03 | 7.467032e-03 | 1.131974e-02 |
| ## 586 | 3.452961e-03 | -2.072970e-03 | 9.577737e-04 | -2.045275e-02 |
| ## 587 | -4.419565e-02 | 2.762576e-03 | 3.510986e-02 | 1.346212e-02 |
| ## 589 | -2.559438e-03 | -1.130913e-02 | 1.719556e-02 | 7.998749e-03 |
| ## 590 | -3.887363e-02 | 7.688053e-03 | -2.439085e-03 | -2.372901e-04 |
| ## 592 | 2.376028e-02 | -1.345726e-02 | -2.926101e-02 | -6.299341e-04 |
| ## 593 | 1.373824e-02 | -9.369712e-02 | -1.795512e-02 | 3.523828e-03 |
| ## 594 | 2.209483e-02 | 2.964559e-02 | -2.139626e-02 | 1.492021e-02 |
| ## 595 | 2.553972e-02 | -1.737160e-02 | 6.376737e-03 | 8.623078e-03 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 596 | 2.033456e-02 | -9.692525e-03 | 1.277346e-02 | -9.632366e-03 |
| ## 597 | -4.158209e-02 | 7.707899e-04 | -3.058865e-02 | 1.965733e-04 |
| ## 598 | -2.835535e-03 | 9.264134e-03 | -1.768693e-02 | 1.260418e-02 |
| ## 601 | 1.408334e-02 | 2.802994e-02 | -3.092266e-02 | 2.720018e-03 |
| ## 602 | -2.611412e-02 | 3.744302e-03 | -3.163074e-03 | -1.230147e-02 |
| ## 603 | 2.177906e-02 | -3.339217e-02 | 2.182030e-02 | -1.125576e-01 |
| ## 604 | 9.945364e-03 | 1.051347e-02 | -4.010018e-02 | 1.167156e-02 |
| ## 605 | -3.837840e-02 | 1.376024e-02 | 1.901240e-02 | 1.160735e-02 |
| ## 606 | 2.564203e-02 | -1.429091e-02 | -1.679094e-02 | -5.303212e-03 |
| ## 608 | -3.430758e-02 | -4.041004e-02 | -2.380060e-02 | 5.511869e-03 |
| ## 609 | 2.514308e-02 | -1.585889e-02 | 2.096935e-02 | 1.560025e-02 |
| ## 611 | 2.037932e-02 | -9.796479e-03 | -1.465864e-02 | 1.452275e-02 |
| ## 612 | 2.108870e-02 | -2.233450e-02 | 1.074241e-02 | 1.281384e-02 |
| ## 613 | -4.665538e-02 | -1.490188e-02 | -3.794807e-03 | 1.199721e-02 |
| ## 614 | -3.648975e-03 | -4.980929e-03 | 1.040162e-02 | 1.441693e-03 |
| ## 615 | 2.072820e-02 | 4.726132e-02 | -3.918081e-02 | 1.636675e-02 |
| ## 616 | -4.128085e-02 | -1.855059e-02 | -2.250867e-03 | -9.999808e-03 |
| ## 617 | -5.048667e-02 | -4.441698e-02 | 4.136655e-02 | -1.122068e-01 |
| ## 620 | 2.115881e-02 | 3.549140e-02 | 1.476646e-02 | 1.274498e-02 |
| ## 621 | 5.972265e-03 | 1.231957e-02 | 1.371275e-02 | -2.184814e-03 |
| ## 622 | -3.950275e-03 | 1.516294e-02 | -3.713252e-03 | 1.548022e-02 |
| ## 623 | 2.039357e-02 | -4.473163e-02 | 3.034214e-02 | 9.771714e-03 |
| ## 624 | -4.226299e-02 | -4.116012e-02 | 2.214619e-02 | -3.009003e-02 |
| ## 625 | 2.596587e-02 | -2.327699e-02 | 1.274187e-02 | -4.713775e-02 |
| ## 627 | 1.261336e-02 | 3.895280e-03 | -3.056868e-03 | -7.634098e-03 |
| ## 628 | 1.299781e-02 | 6.094459e-02 | 2.375474e-02 | -5.723330e-02 |
| ## 630 | 6.645884e-04 | -5.957513e-03 | -2.806538e-03 | -2.147930e-03 |
| ## 631 | -4.457487e-02 | -1.467943e-02 | 1.157292e-02 | -1.640044e-02 |
| ## 632 | 1.981130e-02 | 4.219948e-02 | -2.927573e-02 | 2.241617e-03 |
| ## 633 | 2.220910e-02 | 3.487688e-03 | -4.818729e-02 | 8.334272e-03 |
| ## 634 | 1.492583e-02 | 3.932408e-02 | 4.361104e-03 | -2.959702e-02 |
| ## 635 | 1.858572e-02 | -3.467947e-03 | -4.089969e-02 | -1.354897e-03 |
| ## 636 | 1.816357e-02 | 8.515381e-03 | 1.507670e-02 | 4.212405e-03 |
| ## 639 | 2.076051e-02 | 3.755955e-02 | 6.154110e-03 | 1.135315e-02 |
| ## 640 | 1.215522e-02 | 1.890255e-02 | 9.541393e-03 | -1.233271e-03 |
| ## 641 | 2.623494e-02 | 9.221874e-03 | -4.519037e-02 | 1.499735e-02 |
| ## 642 | 2.009742e-02 | 1.592547e-02 | -2.589262e-02 | -1.142222e-02 |
| ## 643 | -3.933728e-02 | 1.620478e-02 | 2.098533e-02 | 6.508298e-03 |
| ## 644 | -4.038425e-02 | 3.200435e-03 | -7.592954e-03 | 6.077481e-03 |
| ## 646 | -3.727261e-02 | 2.288663e-02 | 1.210991e-02 | 4.324510e-03 |
| ## 647 | 1.823887e-02 | -4.367083e-02 | 2.521080e-02 | 1.516270e-02 |
| ## 649 | 2.007762e-02 | 3.274582e-02 | 2.245407e-02 | 1.550036e-02 |
| ## 650 | 1.752647e-02 | -1.367310e-02 | -1.512538e-02 | -7.801223e-03 |
| ## 651 | 2.921065e-04 | -6.345474e-03 | -4.107098e-03 | 6.600343e-03 |
| ## 652 | 1.872148e-02 | 3.446988e-04 | 1.888206e-02 | -8.172939e-03 |
| ## 653 | 1.956155e-02 | 2.165959e-03 | -2.177564e-02 | 1.291100e-02 |
| ## 654 | 2.084885e-02 | 1.202180e-02 | 4.950609e-04 | -2.687480e-02 |
| ## 655 | 1.896091e-02 | 6.373005e-03 | 4.092283e-03 | 9.792956e-03 |
| ## 658 | 6.287962e-03 | 5.255718e-04 | -2.161324e-02 | 1.939219e-02 |
| ## 659 | 2.062090e-02 | -6.960388e-03 | -3.840458e-02 | -1.046492e-01 |
| ## 660 | 1.404722e-02 | 1.832000e-02 | 2.731711e-02 | 1.285451e-03 |
| ## 661 | 2.680590e-02 | -4.504668e-04 | 1.595256e-02 | -2.050804e-03 |
| ## 662 | 1.275794e-02 | -1.615348e-02 | 2.179574e-02 | 9.757214e-03 |
| ## 663 | -6.301847e-03 | -1.087533e-02 | 1.320523e-02 | 1.368530e-02 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 665 | 2.228104e-03 | -1.375655e-02 | 1.446716e-02 | -9.283655e-03 |
| ## 666 | -2.238127e-02 | 9.457302e-03 | 9.592334e-03 | -9.213125e-03 |
| ## 668 | 1.798207e-02 | -2.963576e-02 | -7.545328e-02 | 1.239570e-02 |
| ## 669 | 1.524034e-02 | 2.590497e-02 | -4.796367e-03 | 1.243901e-02 |
| ## 670 | -3.657265e-03 | -1.085217e-02 | 1.697566e-02 | 1.729111e-02 |
| ## 671 | -4.520016e-02 | -3.370044e-03 | 8.983788e-03 | 1.422267e-02 |
| ## 672 | 1.873485e-02 | 2.459433e-02 | -1.665932e-02 | 1.301898e-02 |
| ## 673 | -5.019868e-02 | -1.450850e-02 | 2.038066e-03 | 1.047927e-02 |
| ## 674 | 2.556471e-02 | -4.288651e-02 | -2.623165e-03 | 1.310702e-03 |
| ## 677 | 3.891473e-03 | -3.181171e-03 | 1.340942e-02 | -1.951279e-02 |
| ## 678 | 1.828387e-02 | 4.266504e-02 | 3.198379e-02 | 9.575445e-03 |
| ## 679 | 1.384062e-02 | -1.325052e-02 | -8.954258e-03 | -3.113183e-02 |
| ## 680 | 9.501288e-03 | -3.615874e-02 | 3.847620e-02 | 2.690330e-02 |
| ## 681 | 1.078581e-02 | 1.608208e-02 | -1.166168e-02 | 1.044267e-02 |
| ## 682 | 4.716379e-03 | 1.210779e-02 | 9.746664e-03 | 1.771116e-02 |
| ## 684 | 2.750472e-03 | -9.244174e-03 | -1.029313e-03 | 1.300787e-02 |
| ## 685 | 1.763649e-02 | 2.309768e-03 | 1.504797e-02 | 9.420622e-03 |
| ## 687 | 2.167085e-02 | 1.766810e-02 | -3.431084e-02 | 3.925952e-03 |
| ## 688 | 2.305887e-02 | -3.871320e-02 | 3.870442e-02 | -1.247969e-02 |
| ## 689 | 1.386937e-02 | 1.159627e-03 | 1.394419e-02 | 8.551473e-03 |
| ## 690 | 1.867477e-02 | -3.775896e-03 | 7.792624e-03 | -1.141524e-01 |
| ## 691 | 2.258187e-02 | 2.479732e-02 | -4.386510e-02 | -1.886243e-02 |
| ## 692 | -4.708513e-02 | -1.102385e-02 | -3.447704e-02 | 1.351473e-02 |
| ## 693 | -4.746158e-02 | -9.584495e-03 | -4.015574e-02 | 1.379540e-02 |
| ## 696 | 2.052741e-02 | 2.871819e-02 | -1.947982e-02 | -9.730985e-02 |
| ## 697 | 1.650238e-02 | 2.226642e-02 | 2.956369e-02 | 1.405175e-02 |
| ## 698 | 2.136567e-02 | 4.242156e-02 | -3.288686e-02 | 7.938681e-03 |
| ## 699 | 1.366621e-02 | 8.882769e-03 | -5.377457e-03 | 4.508190e-03 |
| ## 700 | 1.446290e-02 | -9.144981e-02 | -1.935069e-02 | 3.019505e-03 |
| ## 701 | 2.004171e-02 | -4.753188e-03 | 1.188621e-02 | 6.610698e-04 |
| ## 703 | -4.160309e-02 | 3.540930e-03 | 2.466164e-02 | 1.680721e-04 |
| ## 704 | -3.446912e-02 | -4.843046e-03 | 2.778783e-02 | 1.188855e-02 |
| ## 706 | 1.824219e-02 | -1.927566e-02 | 1.297093e-02 | 1.441230e-02 |
| ## 707 | 3.988745e-03 | -1.892537e-02 | 2.067043e-02 | 1.396467e-02 |
| ## 708 | -3.472140e-02 | -1.635772e-03 | 2.650811e-02 | 1.137763e-02 |
| ## 709 | 1.122044e-02 | -8.096210e-02 | -4.562406e-02 | -1.395896e-02 |
| ## 710 | -1.470435e-03 | 4.040432e-03 | 2.491223e-02 | 1.745320e-02 |
| ## 711 | -4.551648e-02 | 2.992026e-02 | 7.780321e-04 | 2.845505e-02 |
| ## 712 | 1.828640e-02 | 3.293869e-02 | 2.100887e-02 | -3.404894e-03 |
| ## 715 | 2.007082e-02 | 2.301411e-02 | -2.468626e-02 | -3.676088e-03 |
| ## 716 | -4.245227e-02 | 2.181014e-02 | -1.900904e-03 | 1.433219e-02 |
| ## 717 | 2.617276e-02 | -6.344981e-03 | -2.930054e-02 | 8.031296e-03 |
| ## 718 | 1.883352e-02 | -1.843124e-03 | -5.211825e-03 | -2.140448e-02 |
| ## 719 | 1.605711e-02 | -9.273198e-04 | 1.618347e-02 | -1.091861e-01 |
| ## 720 | 1.938521e-02 | 2.338323e-02 | -3.049291e-02 | -5.575997e-03 |
| ## 722 | 1.771972e-02 | 6.819449e-03 | -4.609802e-02 | 6.064568e-03 |
| ## 723 | 1.681286e-02 | 6.503762e-03 | -4.671484e-03 | 9.436423e-03 |
| ## 725 | 8.524125e-03 | -3.931620e-02 | -8.683455e-03 | 1.637731e-02 |
| ## 726 | -4.467291e-02 | -4.281721e-02 | -3.836790e-02 | 7.287552e-03 |
| ## 727 | 1.512260e-02 | 4.230954e-02 | -1.666363e-02 | 9.395669e-03 |
| ## 728 | 1.800419e-02 | 1.047677e-02 | -4.994463e-02 | 7.362470e-03 |
| ## 729 | 2.588391e-02 | -1.180504e-02 | 5.181970e-03 | 1.351336e-04 |
| ## 730 | 1.160923e-02 | -4.151054e-02 | -4.155369e-03 | 1.194720e-02 |
| ## 731 | 1.776796e-02 | 1.121643e-02 | -2.735414e-02 | -1.014668e-01 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 734 | -1.453084e-03 | -1.729458e-02 | -3.270465e-03 | 1.985421e-02 |
| ## 735 | 2.540806e-02 | -1.441048e-02 | 1.512717e-02 | 1.407344e-02 |
| ## 736 | 2.367398e-02 | -4.446424e-02 | 3.145358e-02 | -4.272962e-02 |
| ## 737 | 5.915555e-03 | -1.308206e-02 | -4.296493e-02 | 7.292328e-03 |
| ## 738 | 2.234821e-02 | -9.438771e-03 | 3.282021e-02 | -1.829157e-03 |
| ## 739 | 1.178309e-02 | 1.795549e-02 | 1.301395e-02 | 1.276230e-02 |
| ## 741 | 1.644866e-02 | 3.020263e-02 | 1.029569e-02 | -9.348555e-03 |
| ## 742 | 1.506608e-02 | -7.852767e-02 | -7.497847e-03 | -3.406558e-02 |
| ## 744 | 1.165092e-02 | -2.924170e-02 | 2.003121e-02 | 2.456087e-02 |
| ## 745 | 1.990906e-02 | -2.440037e-03 | 7.361672e-03 | -1.135337e-01 |
| ## 746 | -1.197461e-03 | -2.408886e-02 | -1.653156e-02 | 1.214933e-02 |
| ## 747 | 1.781926e-03 | -1.124849e-02 | 1.778739e-02 | -2.684632e-03 |
| ## 748 | -4.102138e-02 | -1.378291e-02 | 6.047629e-03 | -3.287841e-03 |
| ## 749 | -4.210911e-02 | -4.732128e-03 | 3.724057e-02 | 9.189231e-04 |
| ## 750 | -8.793768e-04 | -2.321047e-02 | -2.553725e-02 | -9.968335e-02 |
| ## 753 | 1.348729e-02 | 7.101355e-03 | 1.533410e-02 | 4.578186e-03 |
| ## 754 | 1.858149e-02 | 4.939521e-02 | -2.103929e-02 | 7.453011e-03 |
| ## 755 | -2.771044e-02 | 3.601012e-03 | -1.607847e-03 | 8.971594e-03 |
| ## 756 | 1.908959e-02 | -1.665755e-03 | -4.194229e-02 | -8.286106e-04 |
| ## 757 | -4.017100e-02 | 5.077145e-03 | 7.228132e-03 | 8.834501e-04 |
| ## 758 | 1.496790e-02 | 2.914032e-02 | 1.041040e-02 | -4.523263e-02 |
| ## 760 | 1.217955e-02 | 3.509547e-02 | 1.857265e-02 | -4.228949e-02 |
| ## 761 | 1.665171e-02 | 2.184942e-02 | 7.071767e-03 | 1.679271e-02 |
| ## 763 | 1.426427e-04 | 9.688768e-03 | -6.049672e-02 | 1.731515e-02 |
| ## 764 | 1.542394e-02 | 1.127361e-03 | 2.394315e-02 | 1.067850e-02 |
| ## 765 | -3.882768e-02 | 1.062936e-04 | 1.978019e-02 | -9.545447e-03 |
| ## 766 | 2.715596e-02 | -4.029265e-02 | 3.840182e-02 | -2.174644e-02 |
| ## 767 | -1.601323e-03 | -1.168535e-02 | -1.189995e-01 | 1.131936e-02 |
| ## 768 | 1.077098e-02 | 1.580582e-03 | 6.929040e-03 | 3.991692e-03 |
| ## 769 | 2.279542e-02 | 1.488233e-02 | -4.670264e-02 | 2.164655e-02 |
| ## 772 | 1.211983e-02 | 2.712307e-02 | 2.453157e-02 | 4.956613e-03 |
| ## 773 | 1.936453e-02 | -1.188091e-02 | -1.619368e-02 | 1.010239e-02 |
| ## 774 | 1.297907e-02 | 4.297379e-03 | 5.074657e-03 | -1.133483e-03 |
| ## 775 | 1.597399e-02 | 2.460365e-02 | 9.437628e-03 | -1.942236e-02 |
| ## 776 | -4.678191e-02 | 3.615589e-03 | 3.588131e-02 | 1.524269e-02 |
| ## 777 | 1.835044e-02 | 3.068335e-02 | 2.438970e-02 | -2.992160e-02 |
| ## 779 | 1.570013e-02 | -2.099225e-02 | 7.478891e-03 | -8.765318e-03 |
| ## 780 | 1.603578e-02 | 2.142524e-02 | 1.223460e-02 | -7.302997e-03 |
| ## 782 | 1.299212e-02 | 2.148653e-02 | 6.280217e-03 | 1.446918e-03 |
| ## 783 | 5.253264e-04 | -1.556484e-02 | 1.032110e-03 | 1.874501e-02 |
| ## 784 | 1.233206e-03 | -8.565682e-03 | 1.041003e-02 | -1.858587e-03 |
| ## 785 | 1.834606e-02 | 4.183802e-02 | -5.951109e-02 | 1.361744e-02 |
| ## 786 | 1.717872e-02 | 1.719858e-02 | -1.383907e-03 | 9.085892e-03 |
| ## 787 | 2.618659e-02 | -5.055741e-02 | 1.414113e-02 | 9.493960e-03 |
| ## 788 | 1.624267e-02 | 1.091366e-02 | 1.325973e-02 | -2.938792e-02 |
| ## 791 | 1.654834e-02 | 4.797013e-02 | -1.811695e-02 | 1.753573e-02 |
| ## 792 | 1.169759e-02 | -3.467276e-02 | -8.615898e-03 | 2.841212e-02 |
| ## 793 | -4.369178e-02 | -3.293803e-03 | 2.829002e-02 | -2.020272e-02 |
| ## 794 | 2.155661e-02 | 4.340370e-02 | -3.258126e-02 | 2.423543e-02 |
| ## 795 | -1.341813e-03 | 1.828875e-02 | -3.624083e-03 | 1.646694e-02 |
| ## 796 | -3.688065e-02 | 2.781995e-03 | -2.814230e-02 | -3.502976e-02 |
| ## 798 | -1.134702e-03 | -1.704477e-02 | 2.605702e-02 | -3.217425e-02 |
| ## 799 | -4.832512e-02 | -2.000182e-02 | -3.411549e-02 | 1.259844e-02 |
| ## 801 | 2.154142e-02 | -3.210261e-02 | 2.314300e-02 | 1.294002e-02 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 802 | 2.035186e-02 | 2.082551e-03 | -3.413971e-03 | 1.614705e-02 |
| ## 803 | 2.004877e-02 | 3.544908e-02 | 3.012823e-02 | 4.679353e-03 |
| ## 804 | 2.312391e-02 | -8.381776e-03 | -2.464446e-02 | 1.075949e-02 |
| ## 805 | 2.414657e-03 | -1.816422e-02 | 1.692557e-02 | -3.782238e-02 |
| ## 806 | -4.545845e-02 | 1.892118e-03 | -2.634033e-03 | 1.518538e-02 |
| ## 807 | -4.140056e-02 | 1.507056e-02 | 4.303721e-02 | 6.135461e-03 |
| ## 810 | -8.984988e-04 | 1.049378e-02 | -1.020664e-02 | 8.894919e-03 |
| ## 811 | -3.202754e-02 | 2.428564e-02 | 1.531669e-02 | 1.336916e-02 |
| ## 812 | 1.532334e-02 | 7.807012e-03 | -8.348979e-03 | 1.321505e-02 |
| ## 813 | -3.608458e-02 | -3.116415e-03 | 1.216362e-03 | 1.135793e-02 |
| ## 814 | 2.199939e-02 | 2.485635e-02 | -3.189000e-02 | 1.307230e-02 |
| ## 815 | 9.541152e-03 | -3.168864e-03 | -1.472201e-02 | 2.036439e-03 |
| ## 817 | 2.202488e-02 | -5.455720e-03 | 2.048645e-02 | 1.139255e-02 |
| ## 818 | 2.123944e-02 | -7.389794e-03 | -1.762355e-02 | -1.919112e-01 |
| ## 820 | 2.207604e-02 | 2.862585e-02 | -6.405574e-03 | 1.616443e-02 |
| ## 821 | 1.926378e-02 | 9.763174e-03 | -1.940310e-02 | 2.031742e-03 |
| ## 822 | -6.394304e-05 | 3.307566e-03 | -1.602438e-03 | 1.056916e-02 |
| ## 823 | 1.802477e-02 | 3.228940e-02 | -6.645382e-02 | 1.589264e-02 |
| ## 824 | -4.599589e-02 | 6.475337e-03 | 3.664616e-02 | 1.451066e-02 |
| ## 825 | 1.972755e-02 | 4.053912e-03 | 4.548021e-03 | 7.519260e-03 |
| ## 826 | 1.163681e-02 | 1.600399e-02 | 1.171380e-03 | 1.086295e-02 |
| ## 829 | 1.580329e-02 | 2.458877e-02 | -2.215732e-02 | 6.184533e-03 |
| ## 830 | -4.299933e-02 | -1.391121e-03 | 2.682990e-02 | 1.718842e-02 |
| ## 831 | -4.564791e-03 | 6.216735e-04 | -2.186770e-03 | 3.003799e-02 |
| ## 832 | 2.397746e-02 | -4.924831e-02 | 2.380872e-02 | -2.170827e-02 |
| ## 833 | 8.378586e-03 | 2.736412e-02 | 2.766864e-02 | 2.536195e-02 |
| ## 834 | -6.858405e-03 | -1.149818e-02 | 4.239105e-02 | 3.247496e-02 |
| ## 836 | 2.502236e-02 | -2.243648e-02 | 6.601510e-03 | 9.000480e-03 |
| ## 837 | 2.341210e-02 | 3.429664e-02 | -4.377341e-02 | -2.621555e-04 |
| ## 839 | 1.618440e-02 | -6.794159e-04 | -3.300118e-02 | 2.332091e-02 |
| ## 840 | 2.004087e-02 | -9.526385e-02 | 1.434125e-02 | 8.927136e-03 |
| ## 841 | 3.636597e-03 | -1.629476e-02 | -4.507671e-02 | 6.783019e-04 |
| ## 842 | -1.792641e-04 | 1.400367e-02 | 4.403338e-03 | 1.838229e-02 |
| ## 843 | -4.437436e-02 | 3.138454e-03 | 1.812752e-02 | 1.048605e-02 |
| ## 844 | -3.167605e-02 | -3.224461e-02 | -3.378300e-02 | 1.958538e-03 |
| ## 845 | 1.840407e-02 | 2.609786e-02 | 4.071195e-02 | -1.608852e-02 |
| ## 848 | 2.929171e-02 | -2.166178e-02 | -4.471945e-02 | 2.261450e-02 |
| ## 849 | 1.937246e-02 | 2.586262e-02 | 2.177791e-02 | 5.048813e-03 |
| ## 850 | 3.201939e-03 | 2.766423e-05 | 1.839765e-02 | -1.860260e-02 |
| ## 851 | 2.265825e-03 | -7.462094e-03 | 1.248185e-02 | 1.215553e-02 |
| ## 852 | 1.618733e-02 | -1.244565e-02 | -1.397231e-02 | 2.844001e-03 |
| ## 853 | 1.175365e-02 | 5.359596e-03 | -7.587920e-02 | -1.500039e-02 |
| ## 855 | 1.919037e-02 | 5.421239e-03 | -1.280144e-02 | 1.062778e-02 |
| ## 856 | 1.553999e-02 | 5.325079e-02 | 2.365576e-02 | 1.823554e-02 |
| ## 858 | 1.167897e-02 | 3.337364e-02 | 5.361051e-03 | 6.550158e-03 |
| ## 859 | 2.101017e-02 | 3.260214e-02 | 3.566429e-04 | 6.309791e-03 |
| ## 860 | 2.965762e-03 | -7.724177e-03 | -1.866970e-02 | 7.976705e-03 |
| ## 861 | -6.606392e-03 | 2.284512e-02 | 2.576763e-02 | 1.459248e-02 |
| ## 862 | 1.334849e-02 | -2.307908e-03 | -1.058432e-02 | 5.532572e-03 |
| ## 863 | -4.009492e-02 | 2.538055e-03 | -3.872100e-03 | 1.246748e-02 |
| ## 864 | 2.091854e-02 | 3.537566e-02 | 1.394033e-02 | -1.017257e-02 |
| ## 867 | 1.519344e-02 | 2.061958e-02 | -1.419687e-04 | 1.088468e-02 |
| ## 868 | 1.757290e-02 | 3.192677e-02 | 3.205261e-02 | 1.372137e-02 |
| ## 869 | -4.838512e-02 | 1.889657e-02 | 3.019660e-02 | 2.985666e-02 |

| | | | | |
|--------|---------------|---------------|---------------|---------------|
| ## 870 | 1.459518e-02 | -6.228489e-02 | -4.775323e-03 | -3.349329e-02 |
| ## 871 | -3.402917e-03 | -1.102966e-02 | -6.584858e-02 | 1.147122e-03 |
| ## 872 | 1.962091e-02 | -4.856736e-02 | 2.062105e-02 | 1.425609e-02 |
| ## 874 | -3.678795e-02 | 3.741245e-02 | -4.528322e-03 | 9.570344e-03 |
| ## 875 | 1.835278e-02 | 5.143863e-02 | 6.059109e-03 | -7.396313e-03 |
| ## 877 | -3.271361e-02 | 2.867089e-03 | 5.821297e-03 | 4.834576e-03 |
| ## 878 | -3.052003e-03 | -1.362994e-02 | 3.508327e-02 | 1.396399e-02 |
| ## 879 | -2.445570e-03 | -7.498842e-03 | 1.366893e-02 | 1.171728e-02 |
| ## 880 | -2.798356e-03 | 2.074355e-03 | 9.197124e-03 | 1.317517e-02 |
| ## 881 | 2.024818e-02 | 2.925438e-02 | 4.236674e-02 | 1.535804e-02 |
| ## 882 | 2.501012e-02 | -1.998092e-02 | -3.895778e-03 | -1.033094e-03 |
| ## 883 | -3.166532e-02 | -1.447988e-02 | 4.078326e-03 | -4.700153e-03 |
| ## 886 | 2.236380e-02 | -2.302775e-02 | 1.954351e-02 | 3.805116e-04 |
| ## 887 | -4.971081e-02 | 2.996809e-02 | -4.320233e-02 | -1.945269e-02 |
| ## 888 | -4.582535e-02 | -3.600148e-02 | 3.131042e-02 | 6.534714e-03 |
| ## 889 | 2.404219e-02 | -4.884617e-02 | -3.755602e-02 | 3.932708e-03 |
| ## 890 | 1.477996e-02 | -4.116818e-03 | -3.887928e-02 | 7.900062e-03 |
| ## 891 | 2.558119e-02 | -4.205247e-03 | -1.410177e-02 | 1.504385e-02 |
| ## 893 | 1.942253e-02 | 4.033972e-02 | -3.169835e-02 | 2.845835e-02 |
| ## 894 | 1.600843e-02 | 3.023693e-02 | -1.067129e-02 | 1.007260e-02 |
| ## 896 | 1.280952e-02 | 1.810307e-02 | -6.648088e-03 | 1.019222e-02 |
| ## 897 | 2.115295e-02 | 2.830177e-02 | -1.799133e-02 | 6.122680e-03 |
| ## 898 | -4.065383e-02 | 1.113794e-02 | -3.238896e-02 | 2.108060e-02 |
| ## 899 | 2.093550e-02 | 3.317186e-02 | 2.900278e-02 | 1.317031e-02 |
| ## 900 | 2.065327e-02 | 5.136130e-03 | -2.197581e-03 | 4.656307e-03 |
| ## 901 | 1.412773e-02 | 2.146585e-02 | -1.875163e-02 | 1.367850e-02 |
| ## 902 | 1.844883e-02 | 3.264400e-03 | 1.813777e-02 | -7.411248e-03 |
| ## 905 | 1.736889e-02 | -3.367392e-02 | -3.464430e-02 | -1.068347e-01 |
| ## 906 | -1.012457e-04 | 1.224148e-02 | -7.495600e-03 | 1.936292e-02 |
| ## 907 | 5.349809e-03 | 2.118004e-02 | 2.045305e-02 | 1.752757e-02 |
| ## 908 | 1.471297e-02 | 2.708866e-02 | -2.829741e-03 | 2.495186e-03 |
| ## 909 | 2.308118e-02 | -3.094520e-02 | -3.282168e-02 | -1.822120e-03 |
| ## 910 | -3.929996e-02 | -1.419864e-02 | 2.514347e-02 | 1.013323e-02 |
| ## 912 | 2.024004e-02 | 3.210190e-02 | -3.239812e-02 | 1.202543e-02 |
| ## 913 | 1.098867e-02 | 1.120409e-02 | -2.886559e-02 | -5.858697e-04 |
| ## 915 | 1.667271e-02 | -5.416480e-04 | 2.199050e-02 | 6.865237e-04 |
| ## 916 | 1.251810e-02 | 2.713730e-02 | 1.743460e-02 | 1.345643e-03 |
| ## 917 | -3.810225e-02 | -8.052492e-04 | 1.424952e-02 | -1.799436e-02 |
| ## 918 | 2.327145e-03 | -1.580617e-03 | -2.545355e-02 | -1.727861e-02 |
| ## 919 | 4.064197e-03 | 2.012946e-03 | 6.760479e-03 | -5.375015e-04 |
| ## 920 | -3.035653e-02 | -1.833941e-02 | -3.001783e-04 | 1.924988e-03 |
| ## 921 | -4.285841e-02 | -3.268858e-02 | 4.604844e-03 | 7.602391e-03 |
| ## 924 | -3.565988e-02 | -5.905961e-03 | -3.837245e-02 | 1.897346e-02 |
| ## 925 | 2.557490e-04 | -1.187745e-02 | 3.112453e-02 | 1.872212e-02 |
| ## 926 | 1.441929e-02 | 7.774380e-03 | 1.624070e-02 | 4.657580e-03 |
| ## 927 | -3.893829e-02 | -1.235247e-03 | -1.157592e-02 | -4.957461e-02 |
| ## 928 | -2.897712e-02 | -7.769064e-03 | 1.452280e-02 | 4.144119e-03 |
| ## 929 | 2.417913e-02 | -3.641957e-02 | -1.650570e-02 | 8.854864e-03 |
| ## 931 | 1.851926e-02 | 6.228824e-03 | 4.653940e-03 | 9.624865e-03 |
| ## 932 | -4.172258e-02 | -1.064401e-02 | -3.088402e-02 | 9.365725e-03 |
| ## 934 | 1.716891e-02 | -2.742456e-02 | -1.880920e-02 | 1.843306e-02 |
| ## 935 | 1.925245e-03 | -1.660031e-03 | -1.995643e-02 | 8.069599e-03 |
| ## 936 | -6.245682e-03 | -1.398552e-02 | 1.139794e-02 | 1.299707e-03 |
| ## 937 | -4.495524e-03 | -1.185632e-02 | -2.610446e-03 | -5.169850e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 938 | 1.566284e-02 | 2.733622e-02 | 1.835872e-02 | 1.442390e-02 |
| ## 939 | 4.738321e-03 | 4.941649e-03 | -3.429935e-02 | 8.296337e-03 |
| ## 940 | -5.401722e-03 | -9.897987e-03 | 9.652206e-04 | 6.848625e-03 |
| ## 943 | 1.179327e-02 | -7.901162e-03 | -1.342840e-02 | -6.722054e-02 |
| ## 944 | 9.849763e-03 | -1.017835e-03 | -2.140899e-02 | 3.932545e-05 |
| ## 945 | 1.823184e-02 | 3.218136e-02 | 2.273290e-02 | 1.422156e-02 |
| ## 946 | 1.424185e-02 | -1.894265e-04 | 3.133935e-02 | 6.559694e-03 |
| ## 947 | 6.732137e-03 | -2.955433e-04 | 1.266239e-02 | -5.610638e-02 |
| ## 948 | 5.159427e-03 | -2.364037e-04 | 4.765552e-03 | 6.246007e-03 |
| ## 950 | 4.328670e-04 | -1.947040e-02 | -2.241750e-02 | 2.865240e-02 |
| ## 951 | -3.428063e-02 | -1.693578e-03 | -2.041447e-02 | -1.048291e-02 |
| ## 953 | -4.292174e-02 | 1.565003e-02 | 2.331881e-02 | 2.411025e-02 |
| ## 954 | 2.549083e-02 | -1.649598e-02 | 2.384955e-02 | 1.140647e-02 |
| ## 955 | -3.823889e-02 | -4.992292e-03 | 2.557473e-02 | 1.840738e-03 |
| ## 956 | -4.284987e-02 | -2.560414e-03 | 6.248918e-03 | 1.025503e-02 |
| ## 957 | 2.181523e-02 | 3.288957e-02 | -2.196353e-02 | 2.938293e-02 |
| ## 958 | -3.984181e-02 | 4.413290e-02 | -3.617522e-03 | 4.171285e-04 |
| ## 959 | 2.211674e-02 | 3.045641e-02 | 2.238626e-02 | -6.494079e-02 |
| ## 962 | 2.145751e-02 | 3.288523e-02 | -2.109406e-03 | 1.733369e-02 |
| ## 963 | -3.765911e-02 | 7.179594e-03 | 1.788765e-02 | -1.786102e-03 |
| ## 964 | 1.858367e-02 | 5.109966e-03 | 1.239620e-02 | 7.350568e-03 |
| ## 965 | 1.281167e-02 | 8.233969e-03 | -1.353213e-03 | 6.586911e-03 |
| ## 966 | -4.514474e-02 | -3.221968e-03 | 8.881519e-03 | 1.436535e-02 |
| ## 967 | -3.531031e-02 | -8.100672e-03 | 1.476380e-02 | 1.458440e-02 |
| ## 969 | 2.430986e-02 | -4.885193e-02 | 3.663025e-03 | -5.494139e-03 |
| ## 970 | -4.922658e-02 | -2.843300e-02 | 7.769330e-03 | 2.154724e-02 |
| ## 972 | -4.315188e-02 | 6.383805e-03 | 2.464193e-02 | 1.727606e-02 |
| ## 973 | 9.006186e-03 | 1.485167e-02 | 2.285038e-02 | -9.458789e-03 |
| ## 974 | 2.206773e-02 | 3.375234e-02 | 1.924398e-02 | 1.268051e-02 |
| ## 975 | 9.921490e-03 | -4.904317e-02 | 8.378506e-03 | -1.070608e-01 |
| ## 976 | 2.329668e-03 | 1.433977e-04 | -2.111302e-02 | 2.991649e-02 |
| ## 977 | 1.785409e-02 | -2.909419e-02 | -3.215282e-02 | 1.135692e-02 |
| ## 978 | 6.285335e-03 | 1.441628e-02 | -3.556545e-02 | 3.009550e-02 |
| ## 981 | 1.227895e-02 | 5.500408e-02 | 2.302465e-02 | 1.540629e-02 |
| ## 982 | 1.941127e-02 | -5.483270e-04 | 1.815133e-02 | -1.907475e-02 |
| ## 983 | 1.418865e-02 | -9.063274e-02 | 8.038682e-03 | -6.138736e-04 |
| ## 984 | -3.158845e-03 | -6.981140e-03 | -5.321371e-03 | 1.440637e-02 |
| ## 985 | 1.558147e-02 | -1.718202e-02 | 8.669011e-03 | 6.081345e-03 |
| ## 986 | 1.992075e-02 | -1.865869e-02 | -1.915973e-03 | 1.448268e-02 |
| ## 988 | 1.707547e-02 | -9.629592e-02 | -3.315111e-02 | 2.286068e-03 |
| ## 989 | 4.112626e-03 | -8.956407e-03 | 1.530552e-02 | 4.098512e-03 |
| ## 991 | -4.119312e-03 | -1.114819e-02 | -5.774616e-03 | 1.101589e-02 |
| ## 992 | 1.818213e-03 | 2.368604e-02 | -8.231646e-03 | 1.661328e-02 |
| ## 993 | 1.563140e-02 | 3.581766e-03 | -4.718574e-02 | 3.341438e-03 |
| ## 994 | -2.689483e-02 | -5.130849e-03 | 8.986241e-03 | 7.345282e-03 |
| ## 995 | -4.481441e-02 | -5.282939e-03 | 2.607542e-02 | -1.339429e-02 |
| ## 996 | -1.353725e-03 | -1.799655e-02 | -3.168422e-02 | -3.379764e-03 |
| ## 997 | 2.532581e-03 | -9.506949e-03 | 1.748727e-02 | 1.265759e-02 |
| ## 1000 | -4.476404e-02 | -7.329079e-03 | 1.774319e-02 | 1.117950e-02 |
| ## 1001 | 1.627200e-02 | 2.735968e-02 | 3.030956e-02 | 1.600046e-02 |
| ## 1002 | 2.313012e-02 | 2.728827e-02 | -3.505795e-02 | 1.916491e-02 |
| ## 1003 | 1.115110e-02 | -3.246702e-03 | -1.757971e-02 | 3.027662e-03 |
| ## 1004 | -4.950021e-02 | -9.710218e-03 | 4.842632e-02 | 1.802917e-02 |
| ## 1005 | 2.108911e-02 | 2.250971e-03 | 1.710311e-02 | 9.654864e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1007 | -4.172384e-02 | -1.058055e-02 | 1.354886e-02 | 1.579201e-02 |
| ## 1008 | 1.272722e-02 | 4.310542e-03 | -3.287781e-03 | -5.069726e-04 |
| ## 1010 | -4.255365e-02 | 4.936458e-02 | -1.396724e-02 | -2.889836e-02 |
| ## 1011 | -4.385816e-02 | 2.470813e-02 | 1.206389e-02 | 9.168455e-03 |
| ## 1012 | 2.951904e-03 | 1.327264e-02 | 2.285113e-02 | 7.768124e-03 |
| ## 1013 | 1.799508e-02 | 2.150358e-02 | -3.062811e-02 | -1.017787e-01 |
| ## 1014 | 3.876073e-03 | 7.477965e-03 | -5.419041e-03 | -8.860343e-03 |
| ## 1015 | 1.957100e-02 | -5.368112e-02 | 3.115966e-02 | 1.010380e-03 |
| ## 1016 | 1.879676e-02 | 2.287406e-02 | -2.473501e-02 | -9.957520e-02 |
| ## 1019 | 1.767355e-03 | 4.159246e-02 | -5.206780e-02 | 3.628906e-02 |
| ## 1020 | -3.876378e-02 | -2.197979e-02 | -4.538384e-02 | 2.122412e-02 |
| ## 1021 | 1.885859e-02 | 4.047228e-03 | -5.328866e-03 | -9.297545e-03 |
| ## 1022 | -3.703881e-02 | 2.120761e-02 | 1.060123e-02 | -1.924548e-02 |
| ## 1023 | -3.719836e-02 | -4.935310e-03 | -3.759688e-02 | -1.813943e-03 |
| ## 1024 | -3.969265e-02 | 4.564353e-04 | 9.765364e-03 | 1.211759e-02 |
| ## 1026 | -2.830462e-02 | 2.292790e-02 | -2.527509e-03 | 1.248353e-02 |
| ## 1027 | 1.817025e-02 | 3.607712e-02 | 3.955364e-02 | 1.790282e-02 |
| ## 1029 | 2.072769e-02 | 4.185940e-02 | -3.152208e-03 | 4.767011e-03 |
| ## 1030 | -2.371249e-03 | -1.171192e-02 | 4.261320e-02 | 1.164735e-02 |
| ## 1031 | -4.466622e-02 | -3.154058e-03 | 1.078636e-02 | -3.466077e-03 |
| ## 1032 | -4.856880e-02 | -3.837039e-02 | 2.733060e-02 | -1.022012e-02 |
| ## 1033 | 3.039184e-03 | 9.435450e-03 | 1.075952e-02 | 1.021397e-02 |
| ## 1034 | 1.233744e-02 | 3.040511e-03 | 3.263203e-02 | 4.367604e-03 |
| ## 1035 | 3.544563e-03 | -1.726009e-02 | 2.556580e-02 | -2.676671e-02 |
| ## 1038 | 1.008258e-02 | -1.135838e-03 | 1.520521e-02 | -2.630190e-02 |
| ## 1039 | -3.816791e-02 | 6.390008e-03 | 2.639323e-02 | -6.162607e-03 |
| ## 1040 | -4.311460e-02 | -3.372295e-02 | -4.851281e-03 | 8.345249e-03 |
| ## 1041 | 2.079429e-02 | -2.536460e-03 | 2.247196e-02 | 7.554990e-03 |
| ## 1042 | 1.941171e-02 | -3.221163e-02 | 2.086153e-02 | 4.745199e-03 |
| ## 1043 | 2.982511e-02 | -3.141476e-02 | -2.648180e-02 | 2.729694e-02 |
| ## 1045 | 1.748716e-02 | 1.913941e-02 | 2.675927e-02 | -3.857239e-03 |
| ## 1046 | 1.720573e-02 | -1.820126e-02 | 1.108315e-02 | 1.194597e-02 |
| ## 1048 | 2.207750e-02 | -2.417521e-02 | 2.185177e-02 | -8.155964e-02 |
| ## 1049 | 2.380039e-02 | -3.789720e-02 | -4.858758e-03 | -5.493237e-03 |
| ## 1050 | -3.490773e-03 | -7.267638e-03 | -3.468896e-02 | 1.453010e-02 |
| ## 1051 | -2.680872e-02 | 1.320564e-02 | 6.959170e-03 | -2.664807e-02 |
| ## 1052 | -3.908736e-02 | -1.108327e-02 | 2.031966e-02 | -1.324380e-02 |
| ## 1053 | 1.736301e-02 | 3.535877e-02 | -2.816351e-02 | 1.874757e-02 |
| ## 1054 | -3.667828e-02 | 4.997892e-03 | -1.999721e-02 | 1.197290e-02 |
| ## 1057 | 1.870566e-02 | 2.847336e-03 | 2.068019e-02 | -4.624138e-03 |
| ## 1058 | -3.633357e-02 | 2.228002e-02 | 2.780311e-02 | -2.779000e-02 |
| ## 1059 | -4.573665e-02 | -1.275474e-03 | -5.634020e-02 | -3.584926e-03 |
| ## 1060 | 1.772985e-02 | 4.573319e-04 | 2.413720e-02 | -2.286359e-03 |
| ## 1061 | -3.165033e-02 | 5.527789e-03 | -1.298079e-02 | 8.882747e-03 |
| ## 1062 | 3.555134e-03 | -1.897793e-02 | 1.126899e-02 | 1.007368e-02 |
| ## 1064 | 4.353484e-03 | 9.877924e-03 | 7.173122e-04 | 7.065427e-03 |
| ## 1065 | -4.206594e-02 | -2.633265e-02 | -2.798655e-02 | 2.282254e-02 |
| ## 1067 | -4.378808e-02 | 1.450287e-02 | 4.217762e-03 | -2.365895e-02 |
| ## 1068 | 1.270879e-02 | 2.011727e-02 | -4.267414e-03 | -3.733893e-03 |
| ## 1069 | -2.976402e-02 | 8.357354e-03 | -8.973031e-03 | 5.459939e-03 |
| ## 1070 | -3.938949e-02 | 9.677151e-03 | 4.878630e-02 | 1.889642e-02 |
| ## 1071 | 1.227824e-02 | -2.312939e-02 | 2.723851e-02 | -9.986005e-03 |
| ## 1072 | 2.427425e-02 | -3.189538e-02 | 1.551971e-02 | -6.536373e-03 |
| ## 1073 | 2.751480e-02 | -1.108293e-02 | 5.619343e-03 | 1.211322e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1076 | 1.442185e-02 | 2.921624e-02 | 2.988556e-02 | 1.280514e-02 |
| ## 1077 | -1.886071e-03 | -1.109673e-02 | 2.292504e-02 | -1.393309e-02 |
| ## 1078 | 1.185463e-02 | 8.917987e-03 | -5.685025e-03 | -9.435786e-03 |
| ## 1079 | 2.139710e-02 | -3.942995e-02 | 1.555952e-02 | -2.008548e-02 |
| ## 1080 | 2.168139e-02 | 2.870297e-03 | -4.742125e-02 | 1.537734e-02 |
| ## 1081 | 2.058521e-02 | 2.143511e-02 | -1.936638e-02 | -1.921306e-02 |
| ## 1083 | 7.632564e-03 | 1.394757e-02 | 2.359308e-02 | 1.971365e-02 |
| ## 1084 | -4.000277e-02 | 1.229818e-03 | 1.386277e-02 | 1.181056e-02 |
| ## 1086 | 1.451576e-02 | -3.768055e-04 | -2.959800e-02 | 2.084752e-02 |
| ## 1087 | 2.231437e-02 | 4.086617e-02 | 2.053789e-02 | 1.470658e-02 |
| ## 1088 | 1.802608e-02 | -4.110460e-02 | -2.558744e-03 | 1.072462e-02 |
| ## 1089 | -3.608450e-02 | 3.178912e-02 | 1.183227e-02 | 4.079257e-03 |
| ## 1090 | -3.504043e-02 | -1.607847e-03 | 1.133999e-02 | 1.123119e-02 |
| ## 1091 | -3.889096e-02 | 1.393262e-02 | 1.445494e-02 | 7.868275e-03 |
| ## 1092 | -6.934026e-03 | -4.413896e-03 | 1.662387e-02 | 1.888627e-02 |
| ## 1095 | 3.604463e-04 | -1.064453e-02 | -1.573047e-02 | -7.092228e-02 |
| ## 1096 | 1.205908e-02 | -2.631375e-02 | 4.641012e-03 | 7.206686e-03 |
| ## 1097 | -1.739973e-03 | -5.069621e-03 | -3.367503e-02 | -1.235859e-02 |
| ## 1098 | 9.550613e-03 | -1.369452e-02 | -1.806088e-04 | -1.780335e-02 |
| ## 1099 | 2.169085e-02 | -1.586448e-02 | 3.475562e-02 | 1.244408e-02 |
| ## 1100 | -3.277884e-02 | 2.315887e-02 | -4.959478e-02 | 9.963796e-03 |
| ## 1102 | 2.609621e-02 | -1.849424e-02 | 1.870207e-02 | 8.319803e-03 |
| ## 1103 | -4.887535e-03 | -6.886924e-03 | -3.394503e-02 | 1.237220e-02 |
| ## 1105 | 1.162674e-02 | 8.171758e-04 | 2.253130e-02 | 1.135678e-02 |
| ## 1106 | 1.717321e-02 | 1.890801e-02 | -6.830269e-03 | 8.048192e-03 |
| ## 1107 | 3.146194e-02 | -2.817426e-02 | -3.642919e-02 | -7.413809e-04 |
| ## 1108 | 2.658276e-02 | -2.930611e-02 | 1.566539e-02 | -2.082239e-02 |
| ## 1109 | -3.900042e-02 | -1.541348e-02 | 1.369743e-02 | 1.142293e-02 |
| ## 1110 | 2.147875e-02 | -4.694730e-02 | 1.877324e-02 | -6.929703e-03 |
| ## 1111 | -4.136058e-02 | 3.482685e-03 | 1.791688e-02 | 8.920949e-03 |
| ## 1114 | 2.214326e-02 | 3.461444e-02 | 5.928200e-03 | 5.674144e-03 |
| ## 1115 | 1.424949e-02 | 3.449598e-03 | 7.344107e-03 | 4.419245e-03 |
| ## 1116 | 1.706169e-02 | -8.419915e-02 | 3.058598e-03 | -7.589004e-02 |
| ## 1117 | -3.746467e-02 | -9.501394e-03 | 3.929852e-02 | -1.090611e-01 |
| ## 1118 | 2.325222e-02 | -6.026060e-02 | 5.287015e-03 | -2.892278e-03 |
| ## 1119 | 1.945104e-02 | 3.378635e-04 | 1.844980e-02 | -1.781508e-02 |
| ## 1121 | 2.108236e-02 | 1.622805e-02 | 2.235377e-02 | 1.408066e-02 |
| ## 1122 | -4.275398e-02 | -4.097809e-02 | 2.459992e-02 | -1.546356e-02 |
| ## 1124 | 2.912948e-03 | -1.263145e-02 | 1.661435e-02 | -1.352358e-02 |
| ## 1125 | 2.232807e-02 | 3.389201e-02 | 2.257880e-02 | 1.599096e-02 |
| ## 1126 | 1.677716e-02 | 4.680047e-02 | 9.076638e-03 | 1.763332e-02 |
| ## 1127 | 1.735922e-02 | 4.506184e-02 | 1.864363e-02 | 1.457512e-02 |
| ## 1128 | 2.613019e-02 | -2.382646e-02 | 2.104514e-02 | 7.076496e-03 |
| ## 1129 | 2.791138e-02 | -1.640581e-02 | 2.044431e-02 | 1.357100e-02 |
| ## 1130 | 2.603415e-02 | -3.005046e-02 | 1.657229e-02 | -1.344895e-02 |
| ## 1133 | 1.700040e-02 | 4.440208e-02 | 3.473365e-02 | -1.332255e-02 |
| ## 1134 | 1.891574e-02 | -1.282691e-02 | 1.453057e-02 | 2.031797e-02 |
| ## 1135 | 1.604884e-02 | 2.076131e-02 | -2.005996e-02 | 2.599074e-02 |
| ## 1136 | 1.789845e-02 | -1.427846e-02 | 1.542882e-03 | 7.915566e-03 |
| ## 1137 | -2.484744e-02 | 6.273313e-03 | -1.715075e-03 | -6.857143e-03 |
| ## 1138 | -4.069524e-02 | -4.702710e-03 | 3.240224e-02 | -1.069593e-03 |
| ## 1140 | 2.872425e-03 | 7.906074e-03 | 5.844966e-03 | -1.474860e-03 |
| ## 1141 | 2.151695e-02 | -3.692274e-03 | -4.022187e-02 | 1.853393e-02 |
| ## 1143 | -3.736483e-02 | 9.202248e-03 | 1.560420e-02 | -4.815369e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1144 | 1.551003e-02 | 4.786572e-03 | 2.941164e-02 | 7.999967e-03 |
| ## 1145 | 1.732272e-02 | -1.659519e-02 | -1.891593e-03 | 8.822811e-03 |
| ## 1146 | 1.933266e-02 | -3.418299e-02 | 1.113790e-02 | -1.759523e-02 |
| ## 1147 | 1.691322e-02 | 2.659125e-02 | 2.811203e-02 | -5.136929e-03 |
| ## 1148 | 1.444272e-02 | 6.506028e-03 | 2.406609e-02 | 8.879099e-03 |
| ## 1149 | -4.580659e-02 | 1.112127e-02 | -5.351684e-03 | 1.061411e-02 |
| ## 1152 | 1.531063e-02 | 2.011457e-03 | 1.179158e-02 | 7.449201e-03 |
| ## 1153 | 2.060549e-02 | 2.461622e-02 | -1.851045e-02 | -1.107664e-01 |
| ## 1154 | 2.225341e-02 | -2.823076e-02 | 2.128743e-05 | -1.120292e-01 |
| ## 1155 | -3.412154e-02 | -7.245685e-03 | -1.754613e-03 | -3.537357e-03 |
| ## 1156 | 3.456102e-03 | -1.513856e-02 | -4.239627e-02 | 3.973791e-03 |
| ## 1157 | 1.729327e-02 | 2.998165e-02 | 1.823156e-02 | 1.286843e-02 |
| ## 1159 | 2.456214e-02 | -5.447137e-02 | -4.268510e-02 | 1.097745e-02 |
| ## 1160 | 2.212916e-02 | -4.297564e-03 | -4.084285e-02 | 1.778632e-02 |
| ## 1162 | 2.230262e-02 | -5.239447e-02 | -4.452385e-03 | 7.661981e-03 |
| ## 1163 | 1.596272e-02 | -7.836233e-04 | 1.730112e-02 | 1.332206e-02 |
| ## 1164 | 2.567758e-02 | -3.878376e-02 | 2.042331e-02 | 7.894486e-03 |
| ## 1165 | -5.234271e-02 | 1.743392e-02 | 6.892541e-03 | 8.921755e-03 |
| ## 1166 | 1.627966e-02 | 9.880524e-04 | -4.934562e-04 | 7.307848e-03 |
| ## 1167 | 1.637774e-02 | 3.842051e-02 | 2.731822e-02 | -8.717144e-03 |
| ## 1168 | -4.125092e-02 | 2.640414e-02 | 3.582533e-02 | -1.151759e-02 |
| ## 1171 | -4.203138e-02 | 6.969295e-03 | 9.037802e-03 | -1.389091e-02 |
| ## 1172 | -4.488440e-02 | -2.801855e-02 | 6.182024e-04 | -2.403089e-02 |
| ## 1173 | -2.903059e-03 | -2.449350e-03 | 1.479568e-02 | 1.578120e-02 |
| ## 1174 | 1.920666e-02 | 1.096153e-02 | -5.162294e-02 | 5.169201e-04 |
| ## 1175 | 3.667357e-03 | -1.988750e-02 | -3.863688e-02 | -3.903640e-03 |
| ## 1176 | 2.591928e-02 | -3.387343e-03 | -1.504750e-02 | -4.234247e-02 |
| ## 1178 | 1.929092e-02 | -8.895310e-02 | -3.267382e-02 | -3.182830e-03 |
| ## 1179 | -4.323276e-02 | -3.803239e-02 | 2.226062e-02 | 1.140207e-02 |
| ## 1181 | 2.258771e-02 | -1.665473e-02 | 2.769778e-02 | 9.902351e-03 |
| ## 1182 | -4.253927e-02 | 5.370567e-03 | 2.138158e-02 | -6.125023e-02 |
| ## 1183 | 1.438508e-02 | 3.049191e-03 | 8.572140e-03 | -6.518305e-03 |
| ## 1184 | 2.205012e-02 | 2.857042e-02 | -8.298463e-03 | -7.653919e-03 |
| ## 1185 | -3.928550e-02 | -1.516446e-02 | 1.116441e-02 | -6.844877e-03 |
| ## 1186 | 1.654118e-02 | -1.694595e-02 | 3.734494e-02 | 1.703055e-02 |
| ## 1187 | 2.705392e-03 | -1.576641e-02 | -6.337929e-03 | 3.715006e-03 |
| ## 1190 | 2.040390e-02 | 4.888845e-02 | -3.169100e-02 | 2.843343e-02 |
| ## 1191 | 1.319878e-02 | 9.667127e-03 | 6.421535e-03 | 3.614303e-03 |
| ## 1192 | 1.397724e-02 | 3.654486e-03 | 1.766630e-02 | 8.116850e-03 |
| ## 1193 | -4.186576e-02 | -1.294194e-02 | 3.404352e-02 | 1.610723e-03 |
| ## 1194 | 9.827175e-03 | -3.959617e-02 | 3.229100e-02 | -5.105090e-03 |
| ## 1195 | 2.384414e-02 | -4.195421e-02 | -4.068624e-03 | 9.184419e-03 |
| ## 1197 | 1.367998e-02 | 5.601672e-03 | -4.751667e-03 | 1.130887e-02 |
| ## 1198 | -2.673670e-03 | -1.926011e-02 | -2.582005e-02 | -8.584110e-02 |
| ## 1200 | -2.254011e-02 | 6.725938e-03 | 1.533203e-02 | -2.710167e-03 |
| ## 1201 | -5.586170e-03 | -1.057071e-02 | 1.339300e-03 | -4.222731e-03 |
| ## 1202 | 9.536642e-03 | -9.160813e-02 | -2.993435e-02 | 8.091386e-03 |
| ## 1203 | 1.304676e-02 | -2.515630e-02 | 2.487439e-04 | 1.047612e-02 |
| ## 1204 | 1.041862e-02 | 1.346108e-02 | 7.777879e-03 | 3.334220e-03 |
| ## 1205 | -2.540421e-04 | -1.172456e-02 | 2.698759e-02 | 1.402802e-02 |
| ## 1206 | 1.274460e-02 | 2.836258e-03 | 1.292305e-02 | 7.950341e-03 |
| ## 1209 | 2.118489e-02 | 1.801753e-02 | 3.073701e-02 | -2.780920e-03 |
| ## 1210 | 1.682581e-02 | 1.510252e-02 | -3.078690e-02 | 1.155965e-02 |
| ## 1211 | 1.497296e-02 | -5.097807e-03 | -3.054426e-02 | -1.037061e-01 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1212 | 2.690661e-02 | -2.113468e-02 | 1.867085e-02 | 6.632353e-03 |
| ## 1213 | -4.403988e-02 | 7.865081e-03 | 3.258429e-02 | 1.268896e-02 |
| ## 1214 | 6.130424e-03 | 6.792384e-03 | 2.446671e-02 | 8.518491e-03 |
| ## 1216 | -3.419127e-02 | -3.328061e-02 | -3.070632e-02 | 1.020295e-02 |
| ## 1217 | 2.687795e-02 | -2.974775e-02 | 1.118897e-02 | -3.258643e-02 |
| ## 1219 | 1.829872e-02 | 1.654350e-02 | -3.128046e-02 | 9.424694e-03 |
| ## 1220 | 1.101351e-03 | -8.242279e-03 | -1.706190e-02 | 6.824768e-03 |
| ## 1221 | 2.126770e-02 | 4.246383e-02 | -4.021334e-03 | 1.033113e-02 |
| ## 1222 | 1.177668e-02 | -3.392503e-03 | -1.072526e-01 | 1.238688e-02 |
| ## 1223 | -4.298701e-02 | -6.483561e-03 | 4.226407e-03 | 1.385454e-02 |
| ## 1224 | -3.705951e-02 | -1.660600e-02 | -3.280673e-02 | 1.310149e-02 |
| ## 1225 | 1.988584e-02 | 1.903252e-02 | 2.058830e-03 | -2.388807e-02 |
| ## 1228 | -4.718590e-02 | -4.850761e-02 | 2.697301e-02 | -5.509166e-02 |
| ## 1229 | -4.341352e-02 | -5.134644e-03 | 3.548864e-02 | 7.948805e-03 |
| ## 1230 | 1.449624e-02 | -4.659127e-03 | 3.002343e-02 | -1.766469e-02 |
| ## 1231 | -5.267275e-02 | 1.194556e-03 | 1.330074e-02 | 2.510616e-02 |
| ## 1232 | 1.502931e-02 | -1.181432e-03 | -1.688646e-02 | -6.746428e-02 |
| ## 1233 | -4.553045e-02 | -2.831413e-03 | 9.297426e-03 | 1.508009e-02 |
| ## 1235 | 1.771647e-02 | -7.554694e-03 | 1.533914e-02 | 1.505290e-02 |
| ## 1236 | 1.267192e-02 | 5.462621e-03 | -1.826291e-02 | 6.625551e-03 |
| ## 1238 | 1.694487e-02 | 2.623669e-02 | -2.470775e-02 | 1.248860e-02 |
| ## 1239 | 6.109161e-03 | 2.135658e-02 | -7.575219e-03 | 1.054123e-02 |
| ## 1240 | 2.046445e-02 | -4.243310e-02 | -6.059730e-02 | 3.481924e-03 |
| ## 1241 | 1.267042e-04 | 7.741561e-03 | -6.948973e-03 | -1.096331e-02 |
| ## 1242 | -3.909693e-02 | 2.626374e-04 | 1.252338e-02 | -1.590608e-02 |
| ## 1243 | -3.530366e-02 | 1.802236e-02 | -4.421869e-02 | 2.369571e-02 |
| ## 1244 | 2.009180e-02 | 3.856332e-05 | 1.519643e-02 | 1.296584e-02 |
| ## 1247 | 1.524448e-02 | 1.168709e-03 | -9.361241e-03 | 1.216874e-02 |
| ## 1248 | 2.643692e-03 | 4.828777e-03 | 7.840696e-03 | -2.777658e-02 |
| ## 1249 | 1.242224e-02 | 4.200155e-03 | -2.827506e-03 | -1.583524e-03 |
| ## 1250 | 1.685817e-02 | -2.421430e-02 | 4.443854e-02 | -5.077977e-03 |
| ## 1251 | 2.315768e-02 | 3.915008e-02 | 1.981420e-02 | 7.763557e-03 |
| ## 1252 | 2.206364e-02 | -3.942096e-02 | -3.128527e-02 | 2.160797e-02 |
| ## 1254 | -4.593016e-02 | -1.185726e-02 | 1.859162e-02 | 1.369034e-02 |
| ## 1255 | -3.624178e-02 | -9.154796e-03 | 1.173986e-02 | -3.457591e-04 |
| ## 1257 | 1.963017e-02 | 3.106908e-02 | -6.317021e-03 | 1.285429e-02 |
| ## 1258 | 1.899103e-02 | 3.966495e-03 | 2.011640e-02 | 8.577904e-03 |
| ## 1259 | 2.192833e-02 | -4.044645e-02 | 2.131643e-02 | 2.191985e-03 |
| ## 1260 | -3.266135e-02 | 1.505315e-02 | -2.535389e-02 | 1.256334e-02 |
| ## 1261 | 1.804903e-02 | 4.513790e-03 | 5.607613e-03 | -5.165204e-03 |
| ## 1262 | 1.637489e-02 | -3.853445e-03 | -3.257381e-02 | 3.192906e-03 |
| ## 1263 | -3.248626e-02 | -9.819756e-03 | 8.538134e-03 | -8.688868e-02 |
| ## 1266 | -3.666003e-02 | 1.266965e-02 | -4.287096e-02 | 1.466950e-02 |
| ## 1267 | -4.329033e-02 | -4.692252e-03 | -2.883600e-02 | -1.001153e-01 |
| ## 1268 | -3.759452e-02 | 1.527333e-02 | 2.085968e-02 | 1.527718e-02 |
| ## 1269 | -3.265373e-02 | 2.070655e-03 | -3.960313e-02 | 1.381422e-03 |
| ## 1270 | 2.130550e-02 | 2.074951e-02 | -2.014733e-02 | -2.319458e-02 |
| ## 1271 | -4.069971e-02 | 3.456189e-02 | 3.805252e-02 | 2.062643e-02 |
| ## 1273 | 1.971942e-03 | -2.920581e-02 | -1.086872e-02 | 2.685783e-02 |
| ## 1274 | 1.876957e-02 | -5.247841e-02 | 4.282223e-02 | -3.231302e-02 |
| ## 1276 | 1.816028e-02 | -2.747890e-02 | -1.565837e-02 | 1.508175e-02 |
| ## 1277 | 2.670250e-02 | -1.004936e-02 | 4.148728e-03 | -5.622794e-04 |
| ## 1278 | -4.423931e-02 | -2.487446e-02 | 1.286391e-02 | 2.077085e-02 |
| ## 1279 | 1.794067e-02 | 2.824799e-02 | -3.039855e-02 | -2.803635e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1280 | 1.376557e-02 | -8.297285e-03 | -8.971988e-03 | -2.378216e-04 |
| ## 1281 | -3.839221e-03 | -8.108852e-03 | -1.902879e-02 | 1.492762e-02 |
| ## 1282 | 1.910746e-02 | 3.820316e-02 | -3.087437e-02 | 1.613148e-02 |
| ## 1285 | 2.470126e-03 | 1.338813e-02 | -2.000545e-03 | 1.036300e-02 |
| ## 1286 | 1.393801e-02 | 6.038981e-04 | 3.427959e-02 | -6.416806e-03 |
| ## 1287 | 2.507228e-02 | 3.704189e-02 | -4.534929e-02 | 1.540907e-02 |
| ## 1288 | 2.318868e-02 | -3.229721e-03 | -4.243815e-02 | 2.007454e-02 |
| ## 1289 | 1.284844e-02 | 2.874497e-02 | 1.459753e-02 | 1.218334e-02 |
| ## 1290 | 1.641776e-02 | 4.904368e-03 | -2.841708e-02 | 2.004500e-03 |
| ## 1292 | -3.776843e-02 | -1.801795e-02 | -2.469866e-02 | 2.694210e-02 |
| ## 1293 | -3.882524e-02 | -6.930735e-03 | -4.106252e-02 | 1.766895e-02 |
| ## 1295 | -4.423324e-02 | -8.523930e-03 | 2.291306e-02 | 6.205240e-03 |
| ## 1296 | -4.085872e-02 | 3.436657e-02 | -2.228223e-02 | -5.769506e-02 |
| ## 1297 | 1.106615e-02 | 4.434522e-03 | -1.037420e-02 | 6.344328e-03 |
| ## 1298 | 1.737599e-02 | 3.299141e-02 | 3.126247e-02 | 1.766192e-02 |
| ## 1299 | 2.504565e-02 | -1.160557e-02 | -1.104788e-03 | 3.957178e-03 |
| ## 1300 | -5.586506e-03 | -1.600502e-02 | -5.987838e-02 | -3.016239e-02 |
| ## 1301 | 2.229350e-02 | -4.068967e-02 | -2.819787e-02 | 7.794419e-03 |
| ## 1304 | -3.515628e-02 | -3.250662e-03 | -2.617315e-02 | -2.066790e-02 |
| ## 1305 | 1.586813e-02 | 4.344550e-02 | 1.371076e-02 | -4.679410e-03 |
| ## 1306 | -4.459004e-02 | 2.059959e-02 | -1.463280e-02 | -8.050786e-02 |
| ## 1307 | 1.837797e-02 | -3.225316e-02 | -1.656555e-02 | 1.409976e-02 |
| ## 1308 | 1.557199e-02 | 2.169946e-02 | 3.083219e-02 | 1.401930e-02 |
| ## 1309 | 1.147289e-02 | 8.163354e-03 | -4.162528e-02 | 2.132959e-02 |
| ## 1311 | -3.800968e-02 | -1.050849e-02 | 1.697081e-02 | 1.245037e-02 |
| ## 1312 | 1.611310e-02 | 2.361346e-02 | 2.456107e-02 | 1.352083e-02 |
| ## 1314 | -2.029336e-03 | 7.312757e-03 | 1.888105e-02 | 1.006373e-02 |
| ## 1315 | 2.113795e-02 | 3.031863e-02 | -2.213916e-02 | 2.833600e-02 |
| ## 1316 | -3.853241e-02 | 1.074552e-02 | 3.846232e-03 | 1.416890e-02 |
| ## 1317 | 1.906821e-02 | 2.979701e-02 | 3.404845e-03 | 2.180386e-02 |
| ## 1318 | 1.948479e-03 | -2.980401e-02 | -1.091789e-02 | 2.575567e-02 |
| ## 1319 | -4.109723e-02 | -1.979947e-02 | 1.148715e-02 | 1.041207e-02 |
| ## 1320 | 1.898087e-02 | -3.715790e-02 | -2.065989e-02 | -4.292025e-03 |
| ## 1323 | 3.131043e-03 | 1.210510e-02 | 6.160026e-03 | -1.148598e-02 |
| ## 1324 | -4.815955e-02 | -5.512423e-03 | 4.934358e-03 | 1.261232e-02 |
| ## 1325 | 1.642636e-02 | 5.320547e-02 | 9.972018e-03 | 5.571839e-04 |
| ## 1326 | -3.983226e-02 | -5.277712e-03 | 2.160381e-02 | 3.356352e-03 |
| ## 1327 | 1.772388e-02 | 4.681697e-03 | -4.010656e-03 | -1.247300e-02 |
| ## 1328 | -4.167597e-02 | 4.746895e-02 | 2.430166e-02 | 2.286880e-02 |
| ## 1330 | 1.468470e-02 | 2.590209e-04 | -1.313453e-02 | 9.374448e-03 |
| ## 1331 | 1.187863e-02 | 2.807750e-02 | -2.752528e-02 | 8.899415e-03 |
| ## 1333 | 1.516143e-02 | 4.694789e-03 | 2.874228e-02 | 1.022888e-02 |
| ## 1334 | 1.304177e-02 | 1.035359e-03 | 2.700465e-02 | -4.124848e-02 |
| ## 1335 | 2.229700e-02 | -6.610099e-02 | -3.198987e-02 | -5.282511e-02 |
| ## 1336 | 2.231042e-02 | 3.583065e-02 | -1.228089e-02 | 1.431589e-02 |
| ## 1337 | -3.920008e-02 | -1.261701e-02 | -4.211362e-02 | -1.037104e-01 |
| ## 1338 | -3.912359e-02 | 1.329285e-03 | 1.118262e-02 | -4.448041e-03 |
| ## 1339 | -7.511455e-03 | 1.954076e-02 | -1.191244e-02 | 2.001593e-02 |
| ## 1342 | -4.502687e-02 | -2.435909e-02 | 2.259837e-02 | 1.051493e-02 |
| ## 1343 | -3.715663e-02 | 2.118976e-02 | 2.220967e-02 | 1.148069e-02 |
| ## 1344 | -3.423862e-02 | 9.140601e-03 | 2.403376e-03 | -5.410812e-02 |
| ## 1345 | 2.044709e-02 | -2.601529e-02 | 2.999390e-02 | 3.197928e-02 |
| ## 1346 | 2.456626e-02 | 3.164313e-02 | 2.851888e-02 | 1.704574e-02 |
| ## 1347 | -4.268130e-02 | -3.743678e-02 | 2.195502e-02 | 7.950600e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1349 | 1.411071e-02 | 2.127982e-04 | 1.842693e-02 | 4.621514e-03 |
| ## 1350 | -4.424266e-02 | 9.433477e-03 | -4.202693e-03 | 7.044513e-03 |
| ## 1352 | 2.912548e-03 | 3.367472e-03 | 1.570950e-02 | 1.115493e-02 |
| ## 1353 | 2.030510e-02 | 2.238742e-02 | 2.140846e-03 | -1.265890e-02 |
| ## 1354 | -4.855040e-02 | -3.103570e-02 | -1.894445e-02 | 3.432141e-03 |
| ## 1355 | 1.820581e-02 | -1.181439e-02 | -2.102441e-02 | 1.165862e-02 |
| ## 1356 | -5.102594e-02 | -4.263365e-02 | -3.862970e-02 | -1.083029e-01 |
| ## 1357 | 7.615598e-03 | -2.172812e-04 | -1.336284e-02 | 6.538641e-03 |
| ## 1358 | 1.854382e-02 | 4.964624e-03 | 1.247702e-02 | 6.388259e-03 |
| ## 1361 | -4.078216e-03 | -7.438847e-03 | 2.399036e-02 | 8.721640e-03 |
| ## 1362 | 8.647556e-03 | 4.441490e-02 | -4.196355e-02 | 2.346208e-02 |
| ## 1363 | 5.681713e-03 | -2.178173e-02 | -3.521255e-02 | 2.337421e-02 |
| ## 1364 | 2.349123e-02 | -4.754699e-02 | 2.155315e-02 | 1.121476e-02 |
| ## 1365 | -4.216871e-02 | -5.464843e-03 | -2.779945e-02 | 1.377478e-02 |
| ## 1366 | -3.854410e-02 | 2.075242e-02 | 1.569882e-02 | -4.406116e-02 |
| ## 1368 | 1.146272e-02 | -3.377167e-02 | -5.204943e-02 | -7.753706e-02 |
| ## 1369 | -1.596943e-03 | -1.839267e-02 | 1.870173e-02 | -3.706276e-03 |
| ## 1371 | -3.879872e-02 | -7.909573e-03 | 2.196065e-02 | 3.014623e-03 |
| ## 1372 | 2.245932e-02 | -2.675287e-02 | 2.686321e-02 | 9.989012e-03 |
| ## 1373 | -3.951841e-02 | -2.954036e-03 | 8.990770e-03 | 9.360238e-03 |
| ## 1374 | 1.972187e-02 | -4.002119e-03 | -2.551980e-02 | 2.651316e-03 |
| ## 1375 | 1.855537e-02 | 5.341703e-02 | 1.694892e-02 | 7.782631e-03 |
| ## 1376 | 1.692438e-02 | -2.305248e-02 | -2.536545e-03 | -1.258235e-04 |
| ## 1377 | -4.459815e-03 | -4.715984e-03 | -2.910127e-04 | 4.764737e-03 |
| ## 1380 | 3.914226e-03 | 1.271851e-02 | -8.929153e-03 | 1.685318e-02 |
| ## 1381 | -3.815714e-02 | 1.933309e-02 | 6.375534e-03 | 1.256029e-02 |
| ## 1382 | -4.271742e-02 | -3.169690e-02 | -5.735317e-03 | 3.626247e-03 |
| ## 1383 | 1.913632e-02 | -2.769644e-02 | -1.269718e-02 | -2.266266e-03 |
| ## 1384 | 1.004589e-02 | 2.315630e-02 | -3.543325e-02 | 1.747319e-02 |
| ## 1385 | 1.548225e-02 | 3.156042e-02 | -3.649416e-03 | 9.914700e-03 |
| ## 1387 | 2.579180e-02 | -3.538285e-02 | 3.195598e-02 | 5.665520e-03 |
| ## 1388 | -5.273549e-02 | -1.232744e-02 | 3.704642e-02 | 2.158168e-02 |
| ## 1390 | 2.021870e-02 | 4.154404e-02 | 3.460368e-02 | 8.500361e-03 |
| ## 1391 | 1.628736e-02 | -9.061256e-02 | 4.356961e-03 | 4.707636e-03 |
| ## 1392 | -1.854371e-03 | -4.933451e-03 | 4.309137e-03 | 9.114904e-03 |
| ## 1393 | 2.528961e-02 | -1.240599e-02 | 2.393092e-02 | 1.370139e-02 |
| ## 1394 | -5.022926e-02 | 4.003097e-02 | -7.910271e-03 | 2.043455e-02 |
| ## 1395 | -3.253346e-03 | -7.325808e-03 | -5.129712e-03 | 1.527963e-02 |
| ## 1396 | 1.793883e-02 | -4.763706e-02 | -4.175933e-03 | -6.595942e-03 |
| ## 1399 | 1.829095e-02 | 2.329437e-02 | -1.754152e-02 | -9.190529e-02 |
| ## 1400 | -4.274680e-02 | 2.908496e-03 | 1.863183e-02 | 1.231000e-02 |
| ## 1401 | -4.508660e-02 | -1.949842e-02 | -3.035254e-03 | 1.383828e-02 |
| ## 1402 | 9.107335e-03 | 2.338773e-02 | -3.016589e-03 | -7.830533e-02 |
| ## 1403 | 1.659633e-02 | -2.323124e-03 | 2.337281e-02 | 3.253845e-02 |
| ## 1404 | 2.598519e-02 | -3.915073e-02 | -1.927977e-02 | 9.531718e-03 |
| ## 1406 | 1.854924e-02 | 4.107313e-04 | 5.263748e-03 | 7.248630e-03 |
| ## 1407 | -4.476036e-02 | 1.042027e-03 | -2.516977e-03 | 1.951412e-02 |
| ## 1409 | 1.460898e-03 | -1.503208e-02 | 1.848555e-03 | -8.439005e-02 |
| ## 1410 | -3.683519e-03 | -7.130578e-03 | -3.663027e-02 | 1.590059e-02 |
| ## 1411 | -4.227991e-02 | 8.794691e-03 | 3.282600e-02 | -1.009224e-03 |
| ## 1412 | -4.346633e-02 | -8.658494e-03 | 4.194323e-03 | -3.462538e-02 |
| ## 1413 | 2.378782e-02 | -3.754348e-02 | 1.421439e-02 | 1.165159e-02 |
| ## 1414 | 2.480412e-02 | -4.859996e-02 | 1.057040e-02 | -1.180022e-02 |
| ## 1415 | -3.919548e-02 | 3.774630e-03 | -6.822161e-03 | -1.710268e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1418 | 1.531436e-02 | -5.614320e-02 | -5.588038e-04 | -8.902486e-03 |
| ## 1419 | 1.732749e-02 | 4.503989e-03 | 6.609478e-03 | -7.128966e-03 |
| ## 1420 | 3.542302e-04 | -1.188028e-02 | 8.103660e-03 | -3.842627e-03 |
| ## 1421 | 6.669985e-04 | -1.147056e-02 | 4.867569e-02 | 2.217022e-02 |
| ## 1422 | 2.700535e-02 | -1.064035e-02 | 1.631302e-02 | 2.961238e-03 |
| ## 1423 | 2.098509e-02 | -2.075383e-02 | 3.958952e-02 | 1.888412e-02 |
| ## 1425 | 1.634466e-02 | 4.627086e-02 | 1.097252e-02 | -7.388917e-04 |
| ## 1426 | 2.433787e-02 | 2.134500e-02 | -4.128057e-02 | 2.242477e-02 |
| ## 1428 | 1.272568e-03 | 1.827497e-03 | -1.630563e-02 | 1.343846e-02 |
| ## 1429 | 5.239908e-03 | -8.849084e-03 | 2.720268e-02 | 8.260413e-03 |
| ## 1430 | -2.152682e-02 | -1.511952e-02 | 5.639353e-03 | -6.458548e-03 |
| ## 1431 | -3.946459e-02 | -9.260307e-04 | 6.042178e-03 | -8.015923e-03 |
| ## 1432 | 1.708499e-02 | -4.465951e-02 | -1.133861e-02 | -2.554462e-02 |
| ## 1433 | 9.292792e-03 | 1.256069e-02 | -9.090826e-03 | 1.669364e-02 |
| ## 1434 | 1.727920e-02 | 2.125694e-02 | -2.123545e-02 | 1.563387e-02 |
| ## 1437 | -1.061857e-03 | 1.397952e-02 | -1.941718e-02 | 1.643320e-02 |
| ## 1438 | 1.134443e-02 | 2.694821e-02 | -3.951143e-02 | -4.315963e-02 |
| ## 1439 | 2.314569e-02 | 4.038824e-02 | 1.527990e-02 | 4.837483e-04 |
| ## 1440 | -2.688895e-02 | 1.927237e-02 | 1.072823e-02 | 2.026514e-03 |
| ## 1441 | 1.838949e-02 | -5.392903e-02 | 9.937203e-03 | 8.571073e-03 |
| ## 1442 | -2.209192e-03 | 1.201809e-02 | -2.762018e-03 | -5.944489e-03 |
| ## 1444 | 1.806549e-02 | 3.414506e-02 | -7.469914e-03 | 8.885440e-03 |
| ## 1445 | 2.112492e-02 | -2.897426e-02 | -5.956942e-02 | 8.415216e-03 |
| ## 1447 | 2.305611e-02 | -1.101119e-02 | 1.121706e-03 | -3.924094e-03 |
| ## 1448 | 2.102817e-02 | -1.287946e-03 | 1.722702e-02 | 4.902674e-03 |
| ## 1449 | 1.760753e-02 | 3.624711e-02 | -3.699054e-02 | -4.659421e-03 |
| ## 1450 | 1.877787e-02 | -4.980187e-02 | -1.862197e-02 | -8.263523e-03 |
| ## 1451 | -2.938692e-02 | 1.263397e-04 | 1.285531e-02 | 8.547837e-03 |
| ## 1452 | -4.286535e-02 | 2.823914e-02 | -1.849504e-02 | 8.970498e-03 |
| ## 1453 | 1.336108e-02 | 2.561036e-03 | 2.625977e-02 | -2.000633e-03 |
| ## 1456 | 1.992704e-02 | 4.330265e-02 | 3.463681e-02 | -1.039004e-03 |
| ## 1457 | 2.054929e-02 | 4.235334e-02 | -1.580118e-02 | -6.967674e-03 |
| ## 1458 | 1.019327e-02 | 4.073615e-02 | 1.126091e-02 | 2.845887e-02 |
| ## 1459 | 2.696325e-02 | 3.529121e-02 | -3.572887e-02 | 2.681180e-02 |
| ## 1460 | 2.311702e-02 | 2.239839e-02 | 2.918216e-02 | 1.392792e-02 |
| ## 1461 | -2.344655e-02 | -3.567889e-03 | 9.865708e-03 | 3.713292e-03 |
| ## 1463 | 2.045191e-02 | -2.261741e-02 | -2.680742e-02 | 1.909089e-02 |
| ## 1464 | 1.910497e-02 | -9.674639e-03 | 2.714197e-02 | -3.587151e-04 |
| ## 1466 | -4.661505e-02 | -7.481359e-03 | -2.251224e-03 | 1.364833e-02 |
| ## 1467 | 1.287052e-02 | 7.540734e-03 | -3.615778e-02 | 1.300798e-02 |
| ## 1468 | 1.709542e-02 | 8.383097e-03 | 1.677742e-03 | 6.813789e-03 |
| ## 1469 | 1.520092e-02 | -3.800874e-03 | 3.653424e-02 | 8.035611e-03 |
| ## 1470 | 2.078726e-02 | -3.336758e-02 | -2.317624e-02 | 3.007180e-03 |
| ## 1471 | -2.828057e-02 | 1.218776e-02 | -4.381323e-02 | 9.514042e-03 |
| ## 1472 | 4.483379e-03 | -1.168768e-03 | 1.206481e-02 | -1.902962e-02 |
| ## 1475 | 4.919197e-03 | -3.300239e-02 | 3.195871e-03 | 5.140202e-03 |
| ## 1476 | -3.170932e-03 | -1.240880e-02 | 3.011891e-02 | -6.803343e-03 |
| ## 1477 | -2.695429e-02 | -1.057631e-02 | -4.937717e-03 | -9.223140e-03 |
| ## 1478 | 2.098019e-02 | 6.789871e-03 | 1.534699e-02 | -2.766177e-04 |
| ## 1479 | 4.840405e-03 | -1.432471e-02 | 2.580745e-02 | 1.176829e-02 |
| ## 1480 | -4.579835e-02 | 1.954022e-02 | -1.138952e-02 | -2.602963e-03 |
| ## 1482 | 2.402258e-02 | -3.281918e-02 | 1.973694e-02 | 1.159853e-02 |
| ## 1483 | 1.752384e-02 | 4.084724e-02 | 1.622385e-02 | -1.924165e-04 |
| ## 1485 | 1.049903e-02 | 1.888340e-03 | 1.138872e-02 | 1.267381e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1486 | 2.657265e-02 | -1.839476e-02 | 5.802288e-03 | -3.648638e-03 |
| ## 1487 | -4.677994e-02 | -2.371191e-02 | 1.414870e-02 | 2.390640e-02 |
| ## 1488 | 5.299922e-03 | 2.736741e-02 | -3.545311e-02 | -2.244429e-02 |
| ## 1489 | 1.972804e-02 | 2.500859e-03 | -4.434454e-02 | 1.765677e-02 |
| ## 1490 | 2.091306e-02 | 3.213579e-02 | -5.933332e-03 | 5.581546e-03 |
| ## 1491 | 1.903714e-02 | 1.082523e-02 | -1.935657e-02 | -1.076054e-03 |
| ## 1494 | -4.190430e-02 | 1.642057e-02 | -3.913078e-02 | -1.656000e-02 |
| ## 1495 | 2.091487e-02 | -4.451168e-02 | 1.300887e-02 | -6.790529e-03 |
| ## 1496 | 1.666540e-02 | -6.531156e-03 | 2.887122e-02 | 1.668156e-02 |
| ## 1497 | -3.767512e-02 | 1.680199e-02 | 2.181526e-02 | 5.744052e-03 |
| ## 1498 | 1.945108e-02 | -4.125630e-02 | 3.086966e-02 | -1.323806e-03 |
| ## 1499 | 3.256906e-04 | 5.035832e-03 | 3.021852e-02 | 1.816534e-02 |
| ## 1501 | -5.084043e-03 | -9.935578e-03 | -1.584151e-02 | 1.476379e-02 |
| ## 1502 | -4.770462e-02 | -3.521855e-02 | 2.557797e-02 | 1.136639e-02 |
| ## 1504 | -2.493680e-02 | -3.937948e-03 | 2.576183e-02 | 1.203343e-02 |
| ## 1505 | -3.386889e-03 | 2.296196e-02 | -2.428112e-03 | -1.680822e-04 |
| ## 1506 | 9.297051e-03 | -2.569836e-04 | 1.902995e-02 | 4.554712e-03 |
| ## 1507 | 2.116658e-02 | 2.422055e-02 | -4.136957e-02 | 1.828520e-03 |
| ## 1508 | 2.105195e-02 | -5.126056e-02 | 4.646632e-02 | -1.458505e-02 |
| ## 1509 | -1.482986e-03 | -8.718535e-03 | -3.870100e-02 | 1.746632e-02 |
| ## 1510 | 2.295509e-02 | -1.405312e-02 | 4.910035e-03 | -9.362724e-04 |
| ## 1513 | 2.180343e-02 | 1.973678e-02 | 6.635306e-03 | -2.065254e-02 |
| ## 1514 | 2.073854e-02 | 3.374487e-02 | 5.419141e-03 | 1.354632e-02 |
| ## 1515 | 2.555363e-02 | -1.096742e-02 | 2.215098e-02 | 7.853646e-03 |
| ## 1516 | 1.475174e-02 | 1.049789e-02 | -7.080600e-03 | -1.297410e-02 |
| ## 1517 | 2.225760e-02 | 2.993508e-02 | -3.048558e-02 | 1.519541e-02 |
| ## 1518 | 1.258450e-02 | 1.957069e-02 | -1.334025e-02 | -1.131415e-02 |
| ## 1520 | -2.486654e-02 | 1.281850e-02 | 1.639897e-02 | 7.147343e-03 |
| ## 1521 | 1.663871e-02 | 4.052705e-02 | -3.440323e-03 | 7.284366e-03 |
| ## 1523 | -3.943044e-02 | 1.551145e-03 | 1.978579e-02 | -6.033265e-02 |
| ## 1524 | 1.875884e-02 | 8.456431e-03 | -6.109660e-03 | 8.593828e-03 |
| ## 1525 | 5.120637e-03 | 1.442023e-02 | 2.060775e-02 | -2.341245e-03 |
| ## 1526 | 1.434769e-02 | -2.625285e-02 | 9.387632e-03 | 1.569163e-02 |
| ## 1527 | 1.901996e-02 | 3.481321e-03 | -8.373404e-03 | 7.204384e-03 |
| ## 1528 | -7.336123e-04 | -1.074954e-02 | -2.697216e-03 | 1.136126e-02 |
| ## 1529 | 1.698011e-02 | 1.082291e-02 | -2.177754e-02 | -1.860183e-03 |
| ## 1532 | -3.547942e-02 | -1.141538e-02 | 3.443381e-02 | 2.263896e-03 |
| ## 1533 | 1.219855e-02 | 1.682953e-03 | 6.388111e-03 | 9.580420e-03 |
| ## 1534 | -1.299212e-03 | -2.821256e-04 | 9.792617e-03 | 2.982711e-03 |
| ## 1535 | 1.234677e-02 | 5.630527e-03 | -3.509557e-02 | 3.048819e-03 |
| ## 1536 | 2.314412e-03 | -6.906672e-03 | 8.701449e-03 | 7.539496e-03 |
| ## 1537 | 1.352485e-02 | 1.426519e-02 | 9.335826e-03 | 1.827680e-02 |
| ## 1539 | 1.602331e-02 | 6.047654e-02 | 6.806763e-03 | 3.179494e-02 |
| ## 1540 | 2.275855e-02 | 4.243705e-02 | 1.948665e-02 | 6.461056e-03 |
| ## 1542 | 2.237034e-02 | 4.319186e-02 | 1.724691e-02 | 1.384323e-02 |
| ## 1543 | 1.470739e-02 | 2.246554e-02 | -1.923729e-02 | -3.608825e-03 |
| ## 1544 | -4.465387e-02 | -6.802769e-03 | 3.024124e-02 | 8.761658e-03 |
| ## 1545 | 1.961922e-03 | -1.440494e-02 | -5.469805e-03 | 8.046729e-03 |
| ## 1546 | 5.936382e-03 | 2.021228e-02 | 1.836635e-02 | 9.152856e-03 |
| ## 1547 | -4.002226e-02 | -2.341674e-02 | 2.364183e-02 | -9.562059e-03 |
| ## 1548 | 1.768007e-02 | 1.980747e-02 | 2.965518e-02 | 1.554289e-02 |
| ## 1551 | -3.786684e-02 | 2.305901e-02 | 1.284712e-02 | 6.512018e-03 |
| ## 1552 | -2.951832e-02 | 9.670823e-03 | 7.670831e-04 | 1.866834e-02 |
| ## 1553 | -3.929956e-02 | 9.982610e-03 | 2.199880e-02 | -5.631786e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1554 | 3.816118e-03 | -1.600068e-02 | 2.277275e-02 | 7.797766e-03 |
| ## 1555 | 2.289128e-02 | 3.109790e-03 | -1.730826e-02 | 1.595907e-02 |
| ## 1556 | 2.315661e-02 | 5.732070e-02 | 5.116672e-03 | 1.621235e-02 |
| ## 1558 | -4.930834e-02 | 1.039065e-02 | -2.722820e-03 | 1.545210e-02 |
| ## 1559 | 1.076861e-03 | -2.884435e-03 | 2.120768e-02 | -4.284327e-02 |
| ## 1561 | -3.785717e-02 | -1.589859e-02 | 1.848370e-02 | 1.005150e-02 |
| ## 1562 | 1.570439e-02 | 1.676724e-02 | 2.838807e-02 | -3.228855e-02 |
| ## 1563 | 1.529037e-02 | 3.792403e-03 | 1.493004e-02 | -1.380165e-02 |
| ## 1564 | 1.621091e-02 | -2.767585e-02 | 1.870504e-02 | -9.773453e-03 |
| ## 1565 | -4.206527e-02 | 6.969147e-03 | -1.660963e-02 | 1.433241e-02 |
| ## 1566 | 2.151720e-02 | -1.404127e-02 | -1.986598e-02 | 2.715168e-02 |
| ## 1567 | 1.846919e-02 | -2.708483e-02 | -1.310740e-02 | -4.737743e-02 |
| ## 1570 | 3.686326e-03 | -1.730958e-02 | -1.645289e-02 | 1.516579e-02 |
| ## 1571 | 1.773709e-04 | 1.380539e-02 | 3.099382e-02 | 1.997149e-02 |
| ## 1572 | 1.956756e-02 | -2.480731e-02 | -1.808110e-02 | 1.641375e-05 |
| ## 1573 | -3.208812e-02 | -5.249544e-03 | 1.953325e-02 | 1.178887e-02 |
| ## 1574 | 1.515958e-02 | 2.667178e-02 | 1.809528e-02 | 1.337941e-02 |
| ## 1575 | 2.784090e-02 | -4.885365e-03 | -3.532145e-03 | 2.037235e-03 |
| ## 1577 | 1.876835e-02 | 2.300835e-03 | -3.951358e-02 | -6.690328e-04 |
| ## 1578 | 2.193145e-02 | 4.148892e-02 | -1.707127e-02 | 2.408194e-03 |
| ## 1580 | 1.881100e-02 | 5.239719e-03 | 2.053883e-02 | 6.451932e-03 |
| ## 1581 | 1.437643e-02 | -2.918664e-02 | -2.442264e-02 | 1.132667e-03 |
| ## 1582 | -3.068585e-02 | 2.463161e-02 | -2.954015e-02 | 8.272676e-03 |
| ## 1583 | 8.9777871e-03 | 2.883534e-03 | 1.209814e-02 | 6.680297e-03 |
| ## 1584 | 1.601310e-02 | 2.747568e-02 | 7.837457e-03 | 1.315364e-02 |
| ## 1585 | -3.925136e-02 | -9.197260e-04 | 1.123935e-02 | -1.883520e-02 |
| ## 1586 | 1.400184e-02 | -9.985923e-03 | 7.537936e-03 | 1.014195e-02 |
| ## 1589 | 1.178502e-02 | 6.660198e-03 | -1.117081e-03 | 9.453751e-04 |
| ## 1590 | 1.302899e-02 | -3.451519e-02 | 2.451927e-03 | 1.954004e-02 |
| ## 1591 | 1.712318e-02 | -3.904075e-02 | 5.177027e-03 | 5.626819e-03 |
| ## 1592 | 2.036129e-02 | 1.755191e-02 | -2.983968e-02 | -1.608722e-02 |
| ## 1593 | -4.186996e-02 | -4.100913e-02 | 1.633192e-02 | 1.074333e-02 |
| ## 1594 | 1.542824e-02 | -3.987017e-02 | 1.776647e-02 | -1.155638e-02 |
| ## 1596 | 1.803217e-02 | -4.346779e-02 | -2.064924e-03 | 1.144877e-02 |
| ## 1597 | 1.557354e-02 | 1.772215e-02 | 1.016415e-02 | 4.074357e-03 |
| ## 1599 | 1.789663e-02 | 2.150756e-02 | 3.670526e-02 | 2.988847e-03 |
| ## 1600 | 2.341965e-02 | 3.096001e-02 | -4.466713e-02 | 1.657356e-02 |
| ## 1601 | -1.035748e-03 | 2.251216e-02 | -3.347744e-03 | 1.492275e-02 |
| ## 1602 | 2.735825e-02 | -4.003827e-02 | 2.975286e-02 | -7.248715e-04 |
| ## 1603 | 2.279388e-02 | 1.252997e-02 | 1.167018e-02 | -7.005687e-02 |
| ## 1604 | 1.995906e-02 | 5.517299e-03 | 8.599743e-03 | 5.988055e-03 |
| ## 1605 | -4.621996e-02 | 7.004419e-03 | 1.145510e-02 | 1.449159e-02 |
| ## 1608 | 2.064357e-02 | -2.048906e-03 | 4.939954e-03 | 3.080495e-03 |
| ## 1609 | 1.548580e-02 | 7.788115e-03 | 4.868697e-03 | -5.877234e-05 |
| ## 1610 | 2.522085e-02 | -1.438118e-02 | 8.823171e-03 | 1.417001e-02 |
| ## 1611 | 7.713690e-04 | -6.535267e-03 | -2.985544e-02 | 1.068362e-02 |
| ## 1612 | -2.585867e-03 | -1.213246e-02 | 3.018946e-02 | 8.704033e-03 |
| ## 1613 | 1.276031e-02 | 2.715211e-03 | 2.539493e-02 | 1.750253e-02 |
| ## 1615 | 2.164671e-02 | 4.327303e-02 | 1.413170e-02 | 5.813326e-03 |
| ## 1616 | 1.407210e-02 | 1.407610e-02 | 8.461293e-03 | 1.149077e-02 |
| ## 1618 | -4.230949e-02 | -3.143190e-02 | -1.381588e-02 | -5.079604e-03 |
| ## 1619 | -1.081318e-03 | -1.507906e-02 | 9.047492e-03 | 6.096406e-03 |
| ## 1620 | -1.489616e-03 | 1.464255e-02 | -4.221391e-03 | 1.853365e-02 |
| ## 1621 | -3.659712e-03 | -3.544474e-03 | -2.567756e-03 | -6.011217e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1622 | 2.102510e-02 | -2.527400e-02 | 2.902197e-02 | 8.223377e-03 |
| ## 1623 | -4.468029e-02 | 1.260665e-02 | -3.327848e-03 | -7.527865e-02 |
| ## 1624 | 1.872005e-03 | -5.574752e-03 | -1.577420e-02 | 1.002008e-02 |
| ## 1627 | 1.452773e-02 | 1.588034e-03 | 1.836540e-02 | 6.210618e-03 |
| ## 1628 | -3.282846e-02 | 1.518075e-02 | -1.246876e-02 | 1.258993e-02 |
| ## 1629 | -4.607969e-02 | -1.763069e-02 | 1.096182e-02 | -2.462550e-02 |
| ## 1630 | 1.203415e-03 | -1.238692e-02 | -3.611477e-02 | 1.120710e-02 |
| ## 1631 | 2.535950e-02 | -2.209024e-02 | 2.314653e-02 | 1.152288e-02 |
| ## 1632 | -3.891198e-02 | -6.234126e-03 | 4.328122e-03 | -8.152025e-04 |
| ## 1634 | 1.453543e-02 | 2.823080e-02 | -5.446107e-02 | 2.563308e-03 |
| ## 1635 | 1.801767e-04 | 2.017116e-02 | 2.372278e-02 | 2.560635e-02 |
| ## 1637 | -4.068342e-02 | 1.713205e-02 | 3.262579e-02 | 1.571581e-02 |
| ## 1638 | -4.041233e-02 | -7.041817e-03 | -2.330981e-02 | 6.795453e-03 |
| ## 1639 | 1.126392e-02 | 3.433695e-03 | 4.619835e-03 | 1.284322e-03 |
| ## 1640 | -4.128329e-02 | 6.674894e-04 | -1.432272e-02 | -1.327171e-02 |
| ## 1641 | 3.581376e-03 | 1.128545e-02 | 1.335688e-02 | -1.254976e-02 |
| ## 1642 | 1.677772e-02 | -1.757948e-02 | 2.460197e-02 | -7.240347e-03 |
| ## 1643 | 2.272698e-02 | -5.479532e-02 | 2.286457e-02 | 6.208577e-03 |
| ## 1646 | -3.911604e-02 | 9.949818e-03 | -5.068235e-03 | 5.100713e-03 |
| ## 1647 | -2.193156e-03 | 1.800995e-03 | 2.624440e-02 | 3.260849e-03 |
| ## 1648 | 1.943214e-02 | 4.169335e-02 | 2.793047e-02 | 8.464543e-03 |
| ## 1649 | -4.474375e-02 | 2.218165e-03 | -3.596967e-03 | 1.447842e-02 |
| ## 1650 | 1.694601e-02 | 3.773259e-02 | 7.619638e-03 | 1.510850e-02 |
| ## 1651 | -4.175710e-02 | -8.915201e-03 | -1.175078e-03 | 6.584587e-03 |
| ## 1653 | 1.764097e-03 | 8.442093e-03 | -3.337508e-02 | 2.742731e-02 |
| ## 1654 | -3.618502e-02 | -9.466667e-04 | 4.783458e-03 | 1.304458e-02 |
| ## 1656 | 8.349575e-03 | -7.421173e-03 | -2.268624e-02 | -9.904015e-03 |
| ## 1657 | 2.193468e-02 | -2.189055e-02 | 2.466309e-02 | -1.146958e-02 |
| ## 1658 | 1.787579e-02 | -9.891274e-03 | -2.199317e-02 | 1.272713e-02 |
| ## 1659 | -5.494835e-03 | -9.613152e-03 | 3.755103e-02 | 1.535144e-02 |
| ## 1660 | 1.344825e-02 | -5.345299e-02 | -2.597814e-03 | 1.381160e-02 |
| ## 1661 | 2.068840e-02 | 3.123596e-02 | 5.986220e-03 | -5.583774e-03 |
| ## 1662 | -4.678829e-02 | -3.122000e-03 | 2.664077e-02 | 1.186249e-02 |
| ## 1665 | 7.803619e-03 | 5.166085e-02 | -7.961507e-02 | 5.478049e-03 |
| ## 1666 | 2.027776e-02 | -1.686781e-02 | -5.589651e-02 | -2.182014e-02 |
| ## 1667 | -2.890330e-02 | -9.446990e-03 | 2.190742e-02 | 9.254340e-03 |
| ## 1668 | -4.241554e-02 | 1.068137e-02 | -1.545824e-02 | 4.883410e-03 |
| ## 1669 | 1.764943e-02 | 1.916944e-02 | -1.283364e-02 | 8.507667e-03 |
| ## 1670 | -3.356269e-02 | 1.372815e-02 | 9.521420e-03 | -1.429200e-02 |
| ## 1672 | 2.035138e-02 | 1.020343e-02 | 1.427920e-02 | -1.274309e-02 |
| ## 1673 | -3.794909e-02 | 2.312288e-02 | -3.349800e-02 | 1.216586e-02 |
| ## 1675 | 2.732178e-02 | 2.882666e-02 | -3.075997e-02 | 2.401686e-02 |
| ## 1676 | -4.651821e-02 | -7.384786e-03 | 1.124436e-02 | -8.493570e-03 |
| ## 1677 | -2.402265e-03 | -4.518040e-03 | -6.610782e-02 | 1.745420e-02 |
| ## 1678 | 1.827409e-03 | -2.070456e-03 | 1.260500e-03 | -5.909354e-03 |
| ## 1679 | 1.494711e-02 | 3.736604e-03 | 2.203612e-02 | 9.855234e-03 |
| ## 1680 | 1.879576e-02 | 9.944872e-03 | -1.886703e-02 | 4.426288e-03 |
| ## 1681 | 1.817930e-02 | 3.522537e-02 | -3.904722e-02 | 2.089112e-02 |
| ## 1684 | -4.409778e-02 | -2.278128e-02 | 2.240552e-02 | 2.207017e-02 |
| ## 1685 | 1.155454e-02 | 1.286502e-02 | -1.296357e-02 | 1.034523e-02 |
| ## 1686 | 3.964381e-03 | 1.301994e-02 | 2.236577e-02 | -1.080740e-01 |
| ## 1687 | 1.211639e-02 | 4.730494e-03 | 3.558114e-02 | 1.666310e-02 |
| ## 1688 | 1.806300e-02 | -1.998258e-02 | 1.772990e-02 | -1.021919e-02 |
| ## 1689 | -3.375583e-04 | 2.842201e-02 | -1.825305e-02 | 1.930483e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1691 | -4.210512e-02 | -4.535919e-02 | 8.996802e-04 | -1.413273e-02 |
| ## 1692 | 1.453835e-02 | 6.540595e-03 | 2.399030e-02 | 6.871938e-03 |
| ## 1694 | -1.660866e-03 | -1.169350e-02 | 3.852093e-02 | 6.849917e-03 |
| ## 1695 | -4.575315e-02 | -3.815433e-03 | -1.893078e-02 | 5.687607e-03 |
| ## 1696 | 5.732185e-03 | 8.849692e-03 | -4.367124e-02 | -9.997210e-02 |
| ## 1697 | -3.925193e-02 | 1.474608e-02 | -2.469072e-03 | 3.753240e-03 |
| ## 1698 | -3.691536e-02 | 2.163817e-02 | -2.508265e-03 | 1.089791e-02 |
| ## 1699 | 1.601671e-02 | 5.308777e-02 | -1.231288e-02 | 1.496608e-02 |
| ## 1700 | -4.813710e-02 | -2.737827e-02 | -2.001599e-02 | -9.987932e-02 |
| ## 1703 | 6.447647e-03 | 3.956004e-03 | 3.083162e-02 | 1.216958e-02 |
| ## 1704 | -2.189183e-03 | -1.220737e-02 | 3.250936e-02 | 1.366835e-02 |
| ## 1705 | -3.995182e-02 | -3.045229e-03 | 1.833045e-02 | 1.367032e-02 |
| ## 1706 | -4.648249e-02 | 1.484593e-02 | -2.081834e-02 | 2.249499e-02 |
| ## 1707 | 1.512570e-02 | -4.620187e-02 | -4.609816e-02 | -3.593043e-03 |
| ## 1708 | -2.593760e-04 | -9.068020e-03 | 2.061444e-02 | -4.047450e-03 |
| ## 1710 | 1.848832e-02 | -1.715919e-02 | -1.083992e-01 | -1.254020e-02 |
| ## 1711 | 1.922011e-02 | -7.861702e-03 | 2.664750e-02 | 1.769270e-02 |
| ## 1713 | 1.765741e-02 | -1.319555e-02 | -1.539093e-02 | 4.779974e-03 |
| ## 1714 | 2.541207e-02 | -1.167877e-02 | 1.128266e-02 | 1.369233e-02 |
| ## 1715 | -9.622222e-03 | 3.713953e-04 | 1.099441e-02 | 2.454897e-02 |
| ## 1716 | 1.684872e-03 | -1.161660e-02 | 1.494233e-02 | -9.463376e-02 |
| ## 1717 | 1.918938e-02 | 7.319162e-03 | 1.116774e-02 | 9.177349e-03 |
| ## 1718 | 2.165599e-03 | 7.808715e-03 | 2.467390e-02 | -1.729407e-02 |
| ## 1719 | 1.588702e-02 | 3.640099e-02 | 1.627078e-02 | 7.405532e-03 |
| ## 1722 | 2.063632e-02 | 1.880012e-02 | -1.967425e-02 | -1.231248e-02 |
| ## 1723 | 1.958923e-02 | -2.213112e-03 | -4.237252e-02 | -2.915500e-04 |
| ## 1724 | 8.877729e-03 | -2.296759e-03 | 2.342726e-02 | -1.432030e-02 |
| ## 1725 | -3.963638e-02 | 1.233205e-03 | 1.889310e-02 | 1.404354e-02 |
| ## 1726 | 1.993784e-02 | 1.376446e-02 | -1.463346e-02 | -6.863729e-04 |
| ## 1727 | 2.726209e-02 | -7.755465e-03 | 2.089038e-02 | -3.889794e-03 |
| ## 1729 | 9.606340e-03 | 8.605616e-03 | 3.928816e-03 | -5.784116e-03 |
| ## 1730 | -4.263923e-02 | 1.406113e-02 | 2.933780e-02 | 1.024578e-02 |
| ## 1732 | -3.750740e-02 | -4.115145e-03 | -5.954801e-03 | 1.045428e-02 |
| ## 1733 | 2.226392e-02 | 5.431069e-02 | -1.585041e-02 | 1.848801e-03 |
| ## 1734 | 9.346003e-03 | 5.424747e-03 | 2.301540e-02 | -1.054990e-02 |
| ## 1735 | -3.576985e-02 | 6.653691e-03 | -4.436098e-02 | 2.478276e-03 |
| ## 1736 | 1.306612e-02 | 4.175515e-03 | 2.374892e-02 | 1.185114e-02 |
| ## 1737 | 1.723808e-02 | -3.872690e-02 | 6.923102e-03 | 1.914858e-02 |
| ## 1738 | 1.790192e-02 | -3.726228e-02 | -4.632467e-02 | -3.104632e-02 |
| ## 1741 | 1.101862e-02 | 1.425277e-03 | -9.171638e-02 | -1.661413e-03 |
| ## 1742 | 1.399465e-02 | 4.066220e-02 | -6.401522e-02 | 6.782024e-03 |
| ## 1743 | -3.712799e-02 | 1.416732e-02 | 1.731383e-02 | 1.375614e-02 |
| ## 1744 | 1.898081e-02 | 1.425874e-03 | 1.833076e-02 | 6.391125e-03 |
| ## 1745 | 1.997429e-02 | -4.009399e-02 | 1.828544e-02 | -2.828206e-02 |
| ## 1746 | 1.702270e-02 | 2.021570e-02 | -3.905805e-02 | 1.903440e-02 |
| ## 1748 | 4.141993e-03 | 2.012200e-02 | 1.239704e-02 | 1.685657e-02 |
| ## 1749 | 7.139752e-03 | 1.333710e-02 | 1.366763e-02 | 1.485256e-03 |
| ## 1751 | 1.149075e-02 | 7.449328e-03 | 3.294043e-03 | 1.115048e-02 |
| ## 1752 | -3.044825e-03 | -9.272838e-03 | 1.740757e-02 | 1.589624e-02 |
| ## 1753 | 2.967498e-03 | -2.608742e-02 | -1.298457e-02 | 2.491954e-02 |
| ## 1754 | 1.988485e-02 | 4.197907e-02 | -4.530974e-02 | 7.963805e-03 |
| ## 1755 | -3.815778e-02 | 2.002907e-02 | -3.807731e-03 | 1.274765e-02 |
| ## 1756 | 3.373191e-03 | -1.535365e-02 | 5.085880e-03 | 1.197510e-02 |
| ## 1757 | 1.068497e-02 | 4.221825e-02 | 2.510997e-02 | 3.083133e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1760 | 1.351755e-02 | 4.485502e-03 | 1.806953e-02 | 1.079134e-02 |
| ## 1761 | 1.898457e-02 | 3.709802e-02 | -1.558289e-03 | 2.447883e-02 |
| ## 1762 | -2.853777e-03 | 1.382500e-02 | 1.136622e-02 | 1.702347e-02 |
| ## 1763 | 1.061731e-02 | -7.385831e-03 | -1.578597e-02 | -4.063200e-03 |
| ## 1764 | 2.082515e-02 | 2.772389e-02 | 1.263005e-02 | 1.114504e-02 |
| ## 1765 | 3.009086e-03 | -1.794148e-02 | 1.926348e-02 | -3.831195e-03 |
| ## 1767 | 1.500268e-02 | 2.340189e-02 | 1.107113e-02 | -1.142669e-02 |
| ## 1768 | -5.822091e-02 | -2.094142e-02 | 2.864328e-03 | -4.666051e-02 |
| ## 1770 | 1.701772e-02 | 3.633230e-02 | 4.289765e-03 | 1.092117e-02 |
| ## 1771 | 2.380542e-02 | -5.428838e-02 | 2.137856e-02 | 1.032232e-02 |
| ## 1772 | 2.090108e-02 | 1.938888e-02 | 1.793810e-02 | -2.798425e-02 |
| ## 1773 | 1.432770e-02 | 2.596042e-02 | 4.359895e-02 | -8.846295e-03 |
| ## 1774 | -4.033447e-02 | 5.834724e-03 | -2.718034e-03 | 3.650690e-03 |
| ## 1775 | 1.552354e-02 | 1.408505e-02 | -4.086272e-02 | -4.125569e-02 |
| ## 1776 | 1.361183e-02 | 4.861581e-03 | 3.416372e-03 | 7.689465e-03 |
| ## 1779 | 1.614096e-02 | -2.425360e-02 | -2.944702e-03 | 8.787751e-03 |
| ## 1780 | 1.857667e-02 | -1.203776e-02 | -1.021939e-02 | 1.295058e-03 |
| ## 1781 | 1.109818e-02 | 3.882846e-03 | 4.944706e-02 | -7.189190e-03 |
| ## 1782 | 2.381106e-03 | 1.006607e-02 | 2.433534e-02 | 9.634947e-03 |
| ## 1783 | -4.315122e-02 | -7.291990e-03 | -3.001521e-02 | 6.187612e-03 |
| ## 1784 | 1.773500e-02 | -9.779461e-03 | 2.173342e-02 | -8.095574e-03 |
| ## 1786 | 1.022146e-02 | 2.614675e-02 | -3.075529e-02 | -1.436585e-02 |
| ## 1787 | 1.852932e-02 | 4.860780e-02 | 8.942762e-03 | 1.494647e-02 |
| ## 1789 | 9.903395e-03 | -2.364503e-02 | 6.976323e-04 | 1.305034e-02 |
| ## 1790 | 1.301622e-02 | 2.565203e-02 | 1.945865e-02 | 3.067723e-03 |
| ## 1791 | 2.016241e-02 | -1.868447e-03 | -1.274988e-04 | -4.472197e-02 |
| ## 1792 | 2.076582e-02 | 7.105952e-03 | 1.483645e-02 | -9.014653e-03 |
| ## 1793 | 2.293709e-02 | -1.765306e-02 | 5.086628e-03 | 2.034178e-02 |
| ## 1794 | -3.563293e-02 | 2.282931e-02 | -2.507645e-03 | 1.115757e-02 |
| ## 1795 | -3.284172e-03 | -7.116936e-03 | -4.274632e-03 | 1.438600e-02 |
| ## 1798 | -3.728373e-02 | 1.631421e-02 | 1.990114e-02 | 9.886932e-03 |
| ## 1799 | 3.621640e-03 | -8.774379e-03 | 1.535445e-02 | 5.442345e-03 |
| ## 1800 | 8.454425e-03 | 3.350286e-03 | -6.184202e-02 | -1.001445e-02 |
| ## 1801 | 1.591803e-02 | 1.969536e-02 | -8.327466e-03 | -1.699083e-03 |
| ## 1802 | -3.448850e-02 | 1.712524e-02 | -4.816449e-02 | -2.134527e-02 |
| ## 1803 | 1.323245e-02 | 8.209092e-03 | -3.671042e-02 | 1.105833e-02 |
| ## 1805 | -4.224382e-03 | -1.357496e-02 | 1.979983e-02 | -1.110337e-01 |
| ## 1806 | 1.848470e-02 | 4.848481e-03 | 1.260794e-02 | 6.316996e-03 |
| ## 1808 | -3.339445e-02 | -4.680382e-03 | -1.777144e-02 | 1.327374e-02 |
| ## 1809 | -1.555265e-03 | 3.385886e-03 | 1.283222e-02 | 1.276527e-02 |
| ## 1810 | 1.888774e-02 | -3.860202e-04 | -4.000158e-03 | 1.376860e-02 |
| ## 1811 | 1.747993e-02 | 2.121565e-03 | 4.078890e-02 | -1.938882e-02 |
| ## 1812 | 2.117874e-02 | -2.356892e-02 | -4.048470e-03 | 8.195369e-03 |
| ## 1813 | 1.463951e-02 | 4.373805e-02 | -5.198664e-02 | 1.655911e-02 |
| ## 1814 | 2.086267e-02 | -2.681710e-02 | -2.782944e-02 | -3.093770e-02 |
| ## 1817 | 5.302518e-03 | -8.626293e-03 | -1.342003e-02 | 2.647096e-02 |
| ## 1818 | 1.480771e-02 | 6.483463e-03 | 2.879394e-02 | 6.579078e-03 |
| ## 1819 | -3.147430e-02 | -9.781213e-03 | 1.746059e-02 | 7.449512e-03 |
| ## 1820 | 1.616068e-02 | -7.824250e-03 | 4.971093e-02 | 1.083875e-02 |
| ## 1821 | 1.750440e-02 | -6.502391e-02 | -2.724424e-02 | -5.576963e-02 |
| ## 1822 | 1.487508e-02 | 1.381979e-02 | -3.994093e-02 | -3.518207e-02 |
| ## 1824 | 1.141804e-02 | 6.992428e-03 | 1.745772e-02 | 7.642517e-03 |
| ## 1825 | 1.936124e-02 | 4.644630e-02 | 2.903033e-02 | -4.765973e-04 |
| ## 1828 | -4.681977e-03 | 1.932170e-02 | 4.528176e-03 | 1.995196e-02 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1829 | 7.282659e-03 | 1.135524e-02 | 2.939677e-02 | 1.890991e-02 |
| ## 1830 | -7.402215e-03 | -8.685463e-03 | 1.229071e-02 | 2.781800e-02 |
| ## 1831 | -2.797452e-03 | -9.632517e-03 | 1.261042e-02 | 8.092131e-03 |
| ## 1832 | -2.287874e-02 | -1.586836e-02 | -1.729951e-02 | 1.487601e-03 |
| ## 1833 | -5.475535e-03 | -1.342402e-02 | 1.025700e-02 | 1.165793e-02 |
| ## 1834 | -7.786976e-04 | -1.796754e-02 | 3.519470e-02 | 1.507051e-02 |
| ## 1837 | 2.168019e-02 | -6.036653e-02 | 2.343199e-02 | -2.166815e-02 |
| ## 1838 | -4.293888e-02 | -7.559668e-03 | 4.346875e-03 | -2.423773e-02 |
| ## 1839 | 1.824193e-02 | 4.214136e-03 | -3.176372e-02 | -2.811684e-02 |
| ## 1840 | -3.834087e-02 | -3.473091e-03 | 2.020152e-03 | -9.162486e-03 |
| ## 1841 | 3.494695e-03 | -1.671404e-02 | 1.520140e-02 | 5.174129e-03 |
| ## 1842 | 9.677289e-04 | 7.827334e-03 | 3.688859e-02 | 6.858683e-04 |
| ## 1844 | -2.802013e-03 | -1.731968e-02 | -7.141185e-03 | -9.503846e-03 |
| ## 1845 | 2.036296e-02 | 3.093198e-02 | 8.705559e-03 | 8.777840e-03 |
| ## 1847 | 1.641403e-02 | 4.061919e-02 | -3.125769e-03 | 8.746084e-03 |
| ## 1848 | -4.431791e-02 | 1.235293e-02 | -1.054844e-02 | 1.759452e-02 |
| ## 1849 | 1.874628e-02 | -1.637746e-02 | -1.505865e-02 | -2.201845e-03 |
| ## 1850 | 2.011844e-02 | 3.000479e-02 | 1.539673e-02 | 1.472116e-02 |
| ## 1851 | 2.010735e-02 | -5.237047e-04 | 1.064363e-02 | 3.469390e-03 |
| ## 1852 | 1.222888e-02 | 2.478388e-02 | 2.182139e-02 | 1.069306e-02 |
| ## 1853 | -2.507147e-02 | 5.801279e-03 | -1.229152e-02 | -2.196495e-02 |
| ## 1856 | -3.801478e-02 | 1.216835e-02 | -1.785533e-02 | 1.164710e-02 |
| ## 1857 | 2.100048e-02 | -8.378942e-02 | -1.396756e-02 | -3.202713e-02 |
| ## 1858 | 2.024148e-03 | 1.447583e-03 | -1.214310e-02 | 1.227428e-02 |
| ## 1859 | -2.540841e-02 | 1.722140e-02 | 2.328280e-02 | 1.208210e-02 |
| ## 1860 | 1.831882e-03 | 7.244531e-03 | 6.827378e-03 | -5.459228e-04 |
| ## 1861 | 1.379471e-02 | 6.850146e-03 | 7.229730e-03 | 1.127737e-02 |
| ## 1863 | -4.181354e-02 | -3.074735e-03 | 1.741008e-02 | 6.361623e-03 |
| ## 1864 | 1.402933e-02 | -9.045146e-02 | 1.827273e-02 | -4.180075e-03 |
| ## 1866 | -3.979109e-02 | 8.092380e-03 | 1.528042e-02 | -1.611708e-02 |
| ## 1867 | 1.791963e-02 | 6.256646e-03 | 1.580226e-02 | 9.673223e-03 |
| ## 1868 | -3.664229e-02 | 1.933295e-02 | 1.298026e-02 | 9.499422e-03 |
| ## 1869 | -4.601884e-02 | 8.199518e-03 | -2.089792e-02 | 3.228931e-02 |
| ## 1870 | 1.759664e-02 | -5.854240e-02 | 3.685818e-02 | -3.471869e-02 |
| ## 1871 | 1.906180e-02 | -1.075118e-02 | -2.010024e-02 | 1.221127e-02 |
| ## 1872 | -3.668702e-02 | -6.686299e-03 | 2.310452e-02 | 1.009212e-02 |
| ## 1875 | 1.255378e-02 | -7.832519e-02 | -1.721113e-02 | -6.317655e-03 |
| ## 1876 | 2.742874e-02 | 4.654145e-03 | -1.682629e-02 | -9.661712e-03 |
| ## 1877 | 1.531038e-03 | 4.923472e-03 | -2.077459e-02 | 7.969524e-03 |
| ## 1878 | 6.394015e-03 | 6.219797e-03 | -4.519404e-02 | 1.014242e-02 |
| ## 1879 | -3.976946e-02 | 9.894192e-03 | -1.660793e-02 | 9.303098e-03 |
| ## 1880 | 1.721703e-02 | 3.877403e-02 | 3.414745e-02 | 1.340222e-02 |
| ## 1882 | 2.157089e-02 | 1.077701e-02 | 8.095314e-04 | -3.709954e-02 |
| ## 1883 | -3.505021e-02 | 6.264284e-03 | 1.816962e-02 | 8.798212e-03 |
| ## 1885 | 1.497530e-02 | 3.505208e-02 | 1.188377e-02 | 1.436316e-02 |
| ## 1886 | 4.132416e-03 | 1.330947e-02 | -1.780596e-02 | 3.552726e-03 |
| ## 1887 | 1.972668e-02 | 5.910871e-02 | 2.143348e-02 | -7.550212e-03 |
| ## 1888 | 2.080835e-02 | -2.277351e-02 | -1.856269e-02 | 8.497837e-03 |
| ## 1889 | -1.672871e-03 | 5.060369e-03 | 1.087344e-03 | 1.769092e-02 |
| ## 1890 | 2.371302e-02 | 4.732115e-02 | 1.463799e-02 | -1.507102e-02 |
| ## 1891 | 2.297326e-02 | 4.385311e-02 | 2.180163e-02 | 1.427094e-02 |
| ## 1894 | 2.245485e-02 | 3.055519e-02 | 2.226145e-02 | 1.471426e-02 |
| ## 1895 | 1.863464e-02 | -2.501679e-02 | -2.184436e-03 | -2.398428e-02 |
| ## 1896 | 1.930854e-02 | -2.536643e-02 | -5.445046e-02 | 7.550446e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1897 | 2.027446e-02 | 2.058540e-03 | 4.548290e-03 | 1.030518e-02 |
| ## 1898 | -4.177128e-02 | -3.398961e-02 | 1.746464e-02 | 4.097295e-03 |
| ## 1899 | -4.062797e-02 | -3.445342e-02 | 2.335780e-02 | -1.116990e-02 |
| ## 1901 | 1.170433e-03 | 1.760347e-02 | 1.460484e-02 | 6.546767e-03 |
| ## 1902 | -3.896288e-02 | 2.066701e-03 | 2.036132e-02 | 1.254853e-02 |
| ## 1904 | 6.597172e-03 | 6.931647e-03 | -4.749279e-02 | 1.920484e-02 |
| ## 1905 | -3.535154e-03 | -9.156917e-03 | -2.483051e-03 | -1.580747e-02 |
| ## 1906 | -2.888546e-02 | -8.769513e-03 | -5.367625e-02 | -5.902659e-03 |
| ## 1907 | 5.851948e-03 | -2.610338e-02 | -2.897202e-02 | 7.454959e-03 |
| ## 1908 | 2.386115e-02 | -4.242817e-02 | 6.021367e-03 | 9.584669e-03 |
| ## 1909 | 1.554771e-02 | 3.912538e-02 | -1.954505e-03 | -1.602386e-02 |
| ## 1910 | 1.143314e-02 | 1.897475e-02 | 1.691538e-02 | -3.657352e-03 |
| ## 1913 | 1.889473e-02 | -3.177831e-03 | 2.619910e-02 | 1.081234e-02 |
| ## 1914 | 2.437161e-02 | 1.032926e-02 | -2.779429e-02 | -1.448409e-02 |
| ## 1915 | 5.818637e-03 | 3.035577e-03 | -3.195199e-02 | 9.522792e-03 |
| ## 1916 | 6.215235e-03 | 1.193984e-02 | 2.985908e-03 | -6.082515e-02 |
| ## 1917 | 1.737989e-02 | -1.549993e-02 | 3.589146e-03 | 1.673330e-02 |
| ## 1918 | 1.797002e-02 | -2.805594e-02 | 1.581412e-02 | -2.465645e-04 |
| ## 1920 | 2.765338e-04 | 2.594458e-02 | 6.673303e-03 | 1.033053e-02 |
| ## 1921 | 2.135598e-02 | 4.106399e-02 | -5.327290e-03 | 9.601226e-03 |
| ## 1923 | 1.847881e-02 | 4.388578e-02 | -6.016220e-02 | 2.293974e-02 |
| ## 1924 | -4.385671e-02 | 1.239910e-02 | -3.768520e-03 | 1.368731e-02 |
| ## 1925 | 1.287516e-03 | 6.412041e-03 | 2.141992e-02 | 3.380875e-03 |
| ## 1926 | 1.902359e-02 | 9.210573e-03 | -1.400031e-02 | -2.736694e-03 |
| ## 1927 | 2.315895e-02 | -1.636403e-02 | 1.846499e-02 | 5.494620e-03 |
| ## 1928 | -4.312681e-02 | 1.311209e-02 | -6.362828e-03 | -2.763009e-02 |
| ## 1929 | -4.605324e-02 | -9.561707e-03 | 2.869988e-02 | -1.352198e-03 |
| ## 1932 | 1.927317e-02 | -2.947173e-03 | 1.685670e-02 | -2.192228e-02 |
| ## 1933 | 2.343510e-02 | 3.913903e-02 | 1.628008e-02 | 3.838558e-03 |
| ## 1934 | 9.853898e-03 | -3.404857e-04 | 4.113396e-02 | 1.567606e-02 |
| ## 1935 | 1.422590e-02 | 4.361473e-03 | 2.997391e-02 | 1.341633e-02 |
| ## 1936 | -3.659685e-03 | -1.037266e-02 | -3.953161e-03 | 4.437268e-03 |
| ## 1937 | 2.137364e-02 | -5.646906e-02 | -3.129511e-02 | 2.462845e-03 |
| ## 1939 | 1.862948e-02 | 3.650521e-03 | 1.175531e-02 | -9.355469e-04 |
| ## 1940 | 1.790432e-02 | 2.084058e-02 | 2.067808e-02 | 1.024825e-02 |
| ## 1942 | 2.414573e-02 | -1.732416e-02 | -3.079950e-02 | 2.530035e-02 |
| ## 1943 | 2.275786e-02 | 4.590401e-02 | 3.297201e-03 | 1.293590e-02 |
| ## 1944 | 1.617052e-02 | 1.028723e-02 | -7.926532e-03 | -3.370815e-02 |
| ## 1945 | -5.385560e-02 | -2.653956e-02 | -1.018847e-02 | 9.835883e-03 |
| ## 1946 | 1.434046e-02 | 4.658610e-03 | 2.559428e-04 | 1.006346e-02 |
| ## 1947 | -3.541233e-02 | 1.230843e-02 | 5.943316e-03 | -3.596975e-03 |
| ## 1948 | -3.476121e-04 | 2.677530e-02 | 8.836205e-03 | 1.713278e-02 |
| ## 1951 | 1.368269e-02 | -9.768107e-03 | -2.914136e-02 | 3.363684e-03 |
| ## 1952 | -3.705411e-02 | 1.964950e-02 | -1.826195e-02 | -4.590186e-03 |
| ## 1953 | 9.134336e-03 | 1.942488e-02 | 2.054733e-02 | -4.534944e-02 |
| ## 1954 | -2.512206e-02 | 3.954202e-03 | -2.530645e-02 | 6.084961e-03 |
| ## 1955 | 1.975429e-02 | -2.412628e-02 | -1.845980e-02 | -5.546690e-03 |
| ## 1956 | 7.111561e-04 | -9.043684e-03 | -3.124673e-02 | -7.100566e-03 |
| ## 1958 | 1.888364e-02 | -8.723172e-03 | -1.787787e-02 | 2.241138e-02 |
| ## 1959 | -4.599278e-02 | -1.035465e-02 | 9.908709e-03 | -5.137465e-03 |
| ## 1961 | 1.989058e-02 | 3.107699e-03 | 1.303814e-02 | 1.367621e-02 |
| ## 1962 | 1.542861e-02 | 3.514440e-02 | 2.013962e-02 | 3.682821e-03 |
| ## 1963 | -3.990598e-02 | 1.251281e-02 | -2.185608e-02 | 9.423331e-03 |
| ## 1964 | 1.857790e-02 | 3.316134e-02 | -3.069684e-02 | 7.407633e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 1965 | -5.524284e-03 | -9.079308e-03 | 1.343523e-02 | 1.670227e-02 |
| ## 1966 | 2.241481e-02 | -1.513043e-03 | 3.375529e-02 | 1.822611e-03 |
| ## 1967 | 5.625068e-03 | 5.595811e-03 | -5.005666e-02 | 1.317839e-02 |
| ## 1970 | 1.343896e-02 | -1.842789e-02 | 2.835651e-03 | 2.208766e-03 |
| ## 1971 | -3.562821e-02 | 1.296847e-02 | -4.585304e-02 | 1.654976e-02 |
| ## 1972 | 1.755125e-02 | -4.528245e-02 | -2.586991e-03 | 8.375718e-03 |
| ## 1973 | -3.081898e-02 | -1.499525e-02 | 2.219122e-02 | 7.998398e-03 |
| ## 1974 | 2.210025e-02 | 3.095088e-02 | -1.873890e-02 | -8.688282e-04 |
| ## 1975 | 2.927727e-03 | -7.335019e-03 | 1.551332e-02 | 1.061283e-02 |
| ## 1977 | 1.943758e-02 | 8.247643e-03 | 2.184257e-02 | -4.831849e-03 |
| ## 1978 | -3.925555e-02 | 8.016456e-03 | -1.848576e-02 | -8.660445e-03 |
| ## 1980 | -2.712043e-02 | 5.231433e-03 | -2.550536e-03 | 9.483583e-03 |
| ## 1981 | 1.539985e-02 | 1.661675e-02 | -6.169867e-03 | 8.090023e-03 |
| ## 1982 | -2.742831e-02 | 1.248248e-03 | 1.415120e-02 | 8.882569e-03 |
| ## 1983 | 2.226975e-02 | -1.409883e-03 | -4.160253e-02 | 1.931037e-02 |
| ## 1984 | -3.824243e-02 | 5.342210e-03 | 1.863328e-02 | 1.586175e-02 |
| ## 1985 | 5.050354e-03 | -1.182430e-02 | -4.778583e-02 | 1.865848e-02 |
| ## 1986 | 2.356822e-02 | 1.245355e-02 | 5.747445e-03 | -1.442719e-03 |
| ## 1989 | 1.854129e-02 | 2.324544e-02 | -3.178680e-02 | -2.331784e-02 |
| ## 1990 | 1.907028e-02 | 4.000166e-03 | -9.531300e-03 | 1.030483e-02 |
| ## 1991 | 8.577930e-03 | 1.797465e-02 | 1.638246e-02 | -2.309191e-02 |
| ## 1992 | -4.007582e-02 | 1.403743e-02 | -4.603300e-02 | 1.159037e-02 |
| ## 1993 | 1.647667e-02 | 3.567895e-02 | 3.146377e-02 | 1.688682e-02 |
| ## 1994 | 2.195251e-02 | -3.220433e-02 | 1.888710e-02 | -3.010141e-03 |
| ## 1996 | 1.735767e-02 | 4.780923e-02 | 8.077293e-03 | 1.615416e-02 |
| ## 1997 | -1.261529e-03 | 9.659756e-03 | 1.737914e-02 | 1.782458e-02 |
| ## 1999 | 1.618688e-03 | -9.105645e-03 | -5.222717e-03 | 6.208534e-03 |
| ## 2000 | 2.459171e-02 | -1.602479e-02 | -4.595480e-02 | -1.470649e-03 |
| ## 2001 | 2.024858e-02 | 4.566019e-02 | -8.582071e-03 | 1.001730e-02 |
| ## 2002 | 1.729458e-02 | -5.795987e-02 | 1.814864e-02 | -6.528739e-03 |
| ## 2003 | 2.398511e-02 | -1.335638e-02 | 4.486009e-02 | 2.197583e-02 |
| ## 2004 | 2.397146e-02 | 5.042239e-02 | -3.045669e-02 | -1.161907e-02 |
| ## 2005 | 1.280708e-02 | -1.097034e-02 | -7.241525e-03 | 3.160462e-02 |
| ## 2008 | 1.857161e-02 | 3.034741e-02 | -2.991239e-02 | 3.175737e-03 |
| ## 2009 | 2.092855e-02 | -1.380348e-02 | 1.347298e-02 | -4.318929e-03 |
| ## 2010 | 2.101248e-02 | -6.225042e-02 | 3.923943e-02 | -4.995666e-02 |
| ## 2011 | 3.180899e-05 | -1.075745e-02 | 3.073769e-02 | 8.535327e-04 |
| ## 2012 | 5.783113e-04 | -1.137898e-02 | 7.738048e-03 | 5.062311e-03 |
| ## 2013 | 1.335180e-02 | 5.234776e-03 | 8.127983e-03 | 1.144819e-02 |
| ## 2015 | -4.435013e-02 | 7.288177e-03 | -1.996910e-02 | -7.935840e-03 |
| ## 2016 | 6.793203e-03 | 1.732647e-02 | 1.477209e-02 | 1.879761e-02 |
| ## 2018 | 1.551658e-02 | -5.325313e-02 | -3.886297e-02 | -6.239857e-04 |
| ## 2019 | 2.003979e-02 | 3.139554e-03 | 2.039135e-02 | 5.926925e-04 |
| ## 2020 | -5.262226e-02 | -3.556008e-02 | -3.558226e-02 | 1.749740e-02 |
| ## 2021 | -3.751907e-02 | -1.285805e-02 | -2.740719e-02 | 1.657162e-02 |
| ## 2022 | -4.935462e-02 | 5.411458e-03 | 4.626578e-03 | 3.331960e-02 |
| ## 2023 | 2.251752e-02 | 4.497129e-02 | 3.881858e-03 | 9.076043e-03 |
| ## 2024 | -3.093121e-02 | -3.082146e-02 | 1.238820e-02 | 3.553599e-03 |
| ## 2027 | 1.997057e-02 | -2.293789e-02 | 9.768409e-03 | 1.068413e-02 |
| ## 2028 | 1.553887e-02 | 3.185427e-02 | 9.074802e-03 | 1.107033e-02 |
| ## 2029 | 1.134348e-02 | -1.757059e-02 | 7.344008e-03 | 2.966681e-03 |
| ## 2030 | 5.489048e-03 | -9.538441e-03 | -4.883368e-02 | 4.317005e-03 |
| ## 2031 | -3.753659e-02 | 3.563618e-02 | -4.916893e-02 | 1.442572e-03 |
| ## 2032 | 2.100773e-02 | 3.462532e-02 | -3.472302e-03 | 6.967186e-03 |

| | | | | |
|---------|---------------|---------------|---------------|---------------|
| ## 2034 | 1.441532e-02 | 4.840312e-03 | -5.538664e-03 | 9.704162e-03 |
| ## 2035 | -1.073317e-03 | 2.192365e-02 | 4.798998e-02 | 2.649132e-02 |
| ## 2037 | 1.397511e-02 | -4.965290e-03 | -3.769724e-02 | -1.644248e-02 |
| ## 2038 | -2.204916e-02 | -1.195386e-02 | 7.749306e-03 | 1.255234e-03 |
| ## 2039 | -4.439031e-02 | -1.843914e-02 | -3.040169e-02 | -6.805627e-02 |
| ## 2040 | -3.659809e-02 | 3.364402e-02 | 4.467238e-03 | -2.301149e-04 |
| ## 2041 | 1.748921e-02 | 1.404793e-02 | 2.543954e-02 | 3.738754e-03 |
| ## 2042 | -3.765953e-03 | -8.233128e-03 | -1.739611e-02 | 1.044276e-02 |
| ## 2043 | -3.606503e-02 | -3.657532e-03 | -3.213242e-02 | 1.057493e-03 |
| ## 2046 | 1.216577e-02 | 9.635672e-03 | -1.833478e-02 | -8.381731e-03 |
| ## 2047 | 1.137554e-02 | -4.783335e-03 | -1.455553e-02 | -2.588668e-02 |
| ## 2048 | 1.758786e-03 | 1.087270e-02 | -6.167384e-04 | -8.668377e-03 |
| ## 2049 | 3.904826e-03 | -3.070520e-03 | -5.891946e-03 | -1.119543e-02 |
| ## 2050 | -4.642238e-02 | 2.053877e-02 | -2.285157e-02 | -3.517191e-02 |
| ## 2051 | 2.000857e-02 | -5.992218e-02 | -4.487994e-02 | 8.078277e-03 |
| ## 2053 | -3.549322e-02 | -1.636539e-03 | -2.481620e-02 | -2.864325e-02 |
| ## 2054 | 2.306063e-02 | 1.779505e-02 | -1.227130e-02 | 2.989004e-02 |
| ## 2056 | -3.081347e-02 | 1.363071e-02 | 2.525442e-02 | 5.351076e-03 |
| ## 2057 | -5.036151e-02 | 1.919273e-03 | 2.558426e-02 | 3.364365e-02 |
| ## 2058 | -3.669773e-02 | -3.642631e-03 | -1.736837e-02 | -2.319922e-02 |
| ## 2059 | 1.581716e-02 | 4.036851e-02 | 1.846277e-02 | 1.334866e-02 |
| ## 2060 | -4.121073e-02 | -2.071810e-03 | -3.021996e-02 | 7.095727e-03 |
| ## 2061 | 1.942598e-02 | 3.025097e-02 | 2.181394e-02 | 1.154876e-02 |
| ## 2062 | -4.066246e-02 | 9.107699e-03 | -2.103186e-04 | 1.082726e-02 |
| ## 2065 | 1.727281e-02 | -3.242667e-02 | -2.440576e-02 | -2.938370e-02 |
| ## 2066 | 9.288750e-03 | 1.264136e-02 | -2.806369e-02 | 1.748730e-02 |
| ## 2067 | 1.856536e-02 | 4.716664e-03 | 4.904869e-03 | 1.109047e-03 |
| ## 2068 | 1.727650e-02 | 3.292751e-02 | 3.096284e-02 | -1.445407e-03 |
| ## 2069 | 1.163785e-02 | 4.977719e-03 | 1.168179e-02 | 1.231678e-02 |
| ## 2070 | -3.849241e-02 | 4.819133e-04 | 2.048968e-02 | 1.394448e-02 |
| ## 2072 | 9.935466e-03 | -1.580361e-02 | 5.359432e-03 | 8.388454e-03 |
| ## 2073 | 2.241775e-02 | 3.638275e-02 | 1.547079e-02 | -4.955816e-05 |
| ## 2075 | -3.325768e-02 | 1.529381e-02 | 1.352034e-02 | 1.201430e-02 |
| ## 2076 | 8.435629e-03 | 4.158121e-03 | -7.208578e-03 | -2.405607e-03 |
| ## 2077 | 2.217940e-03 | -1.199249e-02 | 2.052531e-02 | 1.597956e-03 |
| ## 2078 | -3.889011e-02 | 9.748846e-03 | 4.630355e-03 | 5.309967e-03 |
| ## 2079 | 2.249482e-02 | -6.482082e-03 | 3.363343e-02 | 5.428897e-03 |
| ## 2080 | -3.964450e-02 | -1.297694e-03 | 6.324091e-03 | -2.058051e-02 |
| ## 2081 | -4.397127e-02 | 3.848417e-02 | 2.550795e-02 | 2.309549e-02 |
| ## 2084 | 1.759463e-02 | -3.511017e-02 | -1.497687e-02 | -2.000459e-03 |
| ## 2085 | 1.669503e-02 | 4.539241e-02 | 9.421209e-03 | 1.177305e-02 |
| ## 2086 | 2.153557e-02 | -2.739180e-02 | -3.494372e-02 | 1.828966e-02 |
| ## 2087 | 1.714181e-02 | 2.468909e-02 | -2.465304e-02 | -4.307142e-03 |
| ## 2088 | 1.253539e-03 | -1.033952e-02 | -4.530153e-03 | -1.697943e-02 |
| ## 2089 | 1.356309e-02 | 4.651607e-03 | 1.797717e-02 | 1.144435e-02 |
| ## 2091 | 1.651913e-02 | -1.090142e-02 | -1.997942e-02 | -2.131034e-02 |
| ## 2092 | 1.707254e-02 | -3.557059e-02 | 1.637370e-02 | 2.916070e-02 |
| ## 2094 | 1.133253e-02 | -1.418732e-02 | 7.062439e-03 | -3.081123e-03 |
| ## 2095 | 1.729627e-02 | -6.224212e-03 | 1.729181e-02 | 1.958835e-02 |
| ## 2096 | -3.949154e-02 | -1.022389e-03 | 1.328895e-02 | -5.192092e-03 |
| ## 2097 | 1.768275e-02 | 3.936703e-02 | -2.694122e-02 | 2.564404e-02 |
| ## 2098 | -3.812196e-02 | -2.086492e-03 | -2.198541e-02 | 1.160032e-02 |
| ## 2099 | 1.917949e-02 | 5.927094e-03 | 1.520154e-02 | 6.097146e-03 |
| ## 2100 | -3.301824e-03 | 3.853604e-03 | 1.090812e-02 | 1.662453e-02 |

```

## 2103      -3.154667e-02      -1.830471e-03 -2.352041e-02 -2.548347e-02
## 2104      2.511616e-03      -1.137212e-02  9.783508e-03  4.457543e-03
## 2105      -3.506714e-02      -3.004646e-02 -3.390934e-02  3.292772e-03
## 2106      1.025309e-03      -2.502893e-02 -2.200928e-02  4.030268e-03
## 2107      2.007075e-02      2.684527e-02 -1.629272e-02 -2.572714e-02
## 2108      1.450362e-02      2.140103e-03  1.727173e-02 -3.804024e-03
## 2110      -4.646523e-02     -1.759731e-02 -3.658382e-02 -8.980736e-03
## 2111      1.564929e-02      3.113614e-02 -1.242321e-02  1.776152e-02
## 2113      1.989151e-02      -3.747809e-03 -3.772045e-02  8.976669e-03
## 2114      2.429014e-02      -4.810449e-02  1.267760e-02  8.471476e-03
## 2115      1.828445e-02      1.917238e-02  3.085719e-03  2.147957e-02
## 2116      2.341326e-02      3.755746e-02  2.583361e-02  1.791074e-02
## 2117      -5.955182e-03     -1.253574e-02  4.374650e-03  1.809884e-02
## 2118      1.012540e-02      6.454149e-03  -8.603921e-02  8.097650e-03
## 2119      1.424568e-03      -1.047082e-02 -4.676256e-03 -1.215959e-02
## 2122      2.086604e-02      -2.022653e-02  3.708692e-02  8.817401e-03
## 2123      2.233556e-02      4.443439e-02  4.256800e-03  1.099268e-02
## 2124      1.357083e-02      4.150945e-03  1.809021e-02  9.779796e-03
## 2125      1.451206e-02      -9.028699e-02 -4.830594e-03 -3.374650e-03
## 2126      1.534220e-02      6.522050e-03  4.295245e-03  1.125037e-02
## 2127      2.426221e-02      -4.744263e-02  1.890174e-02  8.413659e-03
## 2129      -7.408276e-03     8.709687e-04  5.998628e-03  1.320218e-02
## 2130      -3.553934e-03     -9.512138e-03 -4.286240e-03  1.124710e-02
## 2132      -3.766403e-02     -9.904077e-03 -3.748929e-02 -1.034811e-02
## 2133      -4.293956e-04     7.507588e-03  1.423736e-02  1.077292e-02
## 2134      -4.624494e-02     -4.483101e-03 -3.541246e-02  1.272610e-02
## 2135      1.675272e-02      5.141751e-02  -1.756851e-02  1.516517e-02
## 2136      2.060652e-02      -4.499360e-02 -6.493842e-03 -2.327266e-03
## 2137      1.851647e-02      -2.535909e-02  3.260403e-02  1.648913e-02
## 2138      1.762894e-02      -1.329936e-02 -1.533321e-02  2.430557e-03
## 2141      1.696531e-02      4.813153e-02  2.004781e-02 -6.320271e-03
## 2142      -4.337306e-02     2.225893e-02  -3.278090e-03  1.204781e-02
## 2143      -1.016833e-03     2.082780e-02  -1.937046e-02  1.791339e-02
## 2144      2.210342e-03      -4.787219e-03 -3.931513e-02  8.326683e-03
## 2145      1.470322e-02      4.486254e-02  -3.089677e-02  2.672017e-03
## 2146      -4.585620e-02     -8.225591e-03 -1.100215e-02 -2.065679e-02
## 2148      1.865157e-02      1.144617e-03  1.191748e-02  2.684824e-02
## 2149      1.973915e-02      -1.187552e-02 -2.312452e-02 -2.651851e-02
## 2151      -3.822907e-02     1.076248e-02  1.273885e-02  1.351945e-02
## 2152      1.586501e-02      4.236515e-02  1.110457e-02 -1.096148e-01
## 2153      1.873281e-02      3.901950e-03  5.973587e-03  7.920056e-03

##          carage_log    mvr_pts_log       inter
## 1      -7.217925e+01 -3.808253e+01 -4.491883e+02
## 3      5.131201e-01  7.595514e-01  1.092268e+03
## 4      -2.909726e+00  9.560776e-01 -6.029959e+00
## 5      -1.001793e+00  1.300444e+00 -1.013374e+01
## 6      4.573154e+00 -1.071844e+00 -1.088174e+00
## 7      -9.051392e-01 -4.617510e+00  4.068367e+00
## 8      1.659922e+00  7.566574e+00  3.459657e+00
## 9      3.056606e+01 -1.907677e+00  4.772080e+00
## 12     -1.735176e-01  4.399723e-01 -1.017090e+01
## 13     -3.667534e-01  5.114898e-01 -6.838542e+00
## 14     2.322079e-01 -2.050990e+00 -3.089540e+00
## 15     -1.572722e-01 -6.249265e-01 -2.574904e+00

```

```

## 16 2.892123e+00 7.068035e-01 -6.085679e+00
## 17 -3.549850e+00 2.625004e-01 4.839536e+00
## 19 -4.841443e-02 4.722677e-01 2.880221e+01
## 20 1.935336e-01 2.615666e-01 -7.264710e+00
## 22 -9.137228e+00 3.469970e-01 1.267983e+00
## 23 -1.783555e-02 -2.950139e+01 4.847092e+00
## 24 3.530071e-02 3.541499e-03 -1.768012e+02
## 25 2.504589e-02 2.054699e-02 -4.206776e-03
## 26 1.903630e-03 -3.593862e-02 -1.044866e-03
## 27 2.593988e-02 -1.831093e-02 2.187211e-03
## 28 -3.276450e-02 1.971649e-02 4.155244e-03
## 31 1.216780e-02 -2.676480e-02 2.798788e-03
## 32 -1.894855e-02 2.773206e-02 -2.937037e-03
## 33 -5.649293e-02 1.476702e-02 -9.897710e-03
## 34 -2.874625e-02 2.002950e-02 -3.720435e-02
## 35 -1.763258e-04 -2.165704e-02 -1.996696e-02
## 36 -1.986756e-02 -2.248474e-02 -4.304926e-03
## 38 -1.728741e-02 -4.368311e-02 8.851901e-03
## 39 2.286774e-02 2.007853e-02 -7.829978e-03
## 41 3.029015e-02 -3.629615e-02 -7.097826e-04
## 42 1.014720e-02 2.896463e-02 -1.134444e-01
## 43 -2.849123e-02 -1.658918e-02 6.011793e-03
## 44 2.255557e-02 -2.380882e-02 -6.264213e-03
## 45 2.866322e-02 -2.773532e-02 -4.077832e-03
## 46 8.941568e-03 1.093488e-02 -2.171812e-03
## 47 -8.514413e-03 -2.169462e-02 8.542935e-02
## 50 1.202235e-02 -2.029481e-02 -5.583541e-04
## 51 1.907189e-02 1.970886e-02 1.993188e-02
## 52 -2.087913e-02 4.627587e-02 5.162208e-03
## 53 1.169430e-03 2.138551e-02 -6.405330e-03
## 54 5.224757e-02 5.198149e-02 -3.393858e-03
## 55 -4.415695e-02 1.128829e-03 2.776220e-03
## 57 2.903606e-02 1.326565e-02 1.027213e-02
## 58 7.135583e-03 -4.988439e-03 -5.258226e-03
## 60 -1.292066e-02 -2.139339e-02 -7.689776e-04
## 61 -7.284895e-03 9.553464e-03 -5.319871e-03
## 62 -1.718922e-02 2.569332e-02 8.290438e-03
## 63 -3.039225e-02 2.514761e-02 -1.471021e-03
## 64 -1.989986e-02 3.903558e-02 5.678334e-03
## 65 -1.9577791e-02 2.496165e-02 6.307410e-03
## 66 -1.356512e-02 7.023680e-03 1.175373e-02
## 69 -4.101290e-02 -3.907730e-02 9.389364e-05
## 70 1.238020e-02 1.163801e-02 -2.931881e-03
## 71 1.239082e-02 -1.311907e-02 1.993796e-03
## 72 -2.054462e-02 -1.037931e-02 7.676703e-03
## 73 7.971972e-03 -2.961708e-02 -4.662893e-02
## 74 -2.281761e-02 3.726799e-02 3.660863e-03
## 76 2.816587e-02 -2.362385e-02 -2.519736e-02
## 77 -2.142347e-02 2.236808e-02 2.647545e-03
## 79 -3.205571e-02 2.401173e-02 -5.279334e-03
## 80 7.686650e-03 2.841324e-03 -1.406149e-03
## 81 2.491135e-02 -8.948535e-04 5.580405e-03
## 82 2.372152e-02 1.558671e-02 -2.729276e-04
## 83 7.510194e-03 -2.145170e-02 3.380948e-03

```

```

## 84 -1.491101e-02 -4.157004e-03 6.428473e-03
## 85 -1.336404e-02 1.997005e-02 3.121002e-03
## 88 -2.290701e-02 1.532193e-02 -3.224204e-02
## 89 -1.706165e-02 1.723550e-02 -8.551595e-04
## 90 -1.446924e-02 -9.711035e-03 2.973814e-03
## 91 2.302655e-02 -3.536736e-02 -3.350871e-02
## 92 1.914881e-02 2.768463e-02 2.919417e-03
## 93 -1.869895e-02 8.676970e-03 -1.173430e-02
## 95 2.668869e-02 1.667527e-02 -1.064327e-04
## 96 2.881237e-02 4.116020e-02 5.593007e-03
## 98 2.448980e-02 1.527465e-02 4.615705e-03
## 99 -2.323093e-02 -3.084121e-02 4.999258e-03
## 100 -4.190326e-02 -2.173517e-02 -9.641236e-05
## 101 1.136406e-02 1.435342e-03 2.080026e-03
## 102 -2.397684e-02 4.135416e-02 1.428240e-01
## 103 2.272439e-02 -5.392166e-03 -8.063470e-02
## 104 -3.026191e-03 6.556992e-03 -6.342396e-03
## 107 -1.636894e-02 3.288573e-02 1.042741e-02
## 108 -1.998580e-02 7.686688e-03 -1.658470e-02
## 109 2.301519e-02 -2.211812e-03 -1.576877e-02
## 110 3.015104e-02 -2.033016e-02 7.285343e-02
## 111 2.174653e-03 -2.650340e-04 2.770072e-04
## 112 6.458872e-03 -1.779206e-02 -2.131487e-02
## 114 2.389919e-02 -2.623153e-02 4.154330e-03
## 115 -5.604249e-03 4.340139e-02 -8.560195e-03
## 117 -1.286881e-02 7.170384e-03 -1.682758e-03
## 118 2.761654e-02 -2.884690e-02 4.579405e-03
## 119 -2.392468e-02 -4.071352e-02 2.922103e-03
## 120 -2.316373e-02 9.381619e-03 -3.303111e-03
## 121 1.425591e-02 9.905380e-03 -7.330259e-04
## 122 4.670073e-02 -2.077611e-02 3.741159e-03
## 123 -2.039942e-02 7.708318e-03 2.133116e-03
## 126 1.701990e-02 -5.346762e-03 6.147353e-03
## 127 1.463965e-02 -1.341390e-02 2.980223e-03
## 128 -1.279145e-02 -1.783203e-02 -2.428475e-03
## 129 3.004466e-02 1.991717e-02 -4.901205e-03
## 130 9.209108e-03 4.784629e-04 -1.754480e-03
## 131 5.364653e-02 3.535182e-03 6.786987e-03
## 133 1.720745e-02 -8.090064e-03 -1.278027e-03
## 134 -2.375831e-02 1.507658e-02 -4.139986e-03
## 136 1.736338e-03 1.336985e-02 -1.647611e-03
## 137 -2.096083e-02 -2.227062e-02 3.097083e-03
## 138 1.417289e-03 -3.257366e-02 9.705113e-03
## 139 2.218757e-02 -2.222053e-02 4.679597e-03
## 140 2.504789e-02 8.314044e-03 3.353726e-03
## 141 2.686655e-02 9.503669e-03 -1.935117e-03
## 142 -1.663552e-02 -2.246225e-03 1.321421e-03
## 145 -1.782919e-02 3.790130e-03 2.435136e-01
## 146 8.290279e-03 4.745020e-03 9.312613e-04
## 147 -9.003745e-03 -2.066041e-02 -6.254093e-03
## 148 -9.402178e-03 1.217956e-02 1.349146e-03
## 149 -5.700535e-02 1.219994e-02 -6.646423e-03
## 150 -7.586791e-02 -3.163136e-02 -4.955818e-04
## 152 -5.528804e-02 -7.359216e-03 3.496123e-03

```

```

## 153  1.065626e-02  1.560071e-02 -2.656995e-04
## 155 -2.191917e-02  1.959332e-02  3.418189e-03
## 156 -2.088514e-02  2.578580e-02  3.234944e-03
## 157 -6.874027e-02 -2.321427e-02 -4.560551e-03
## 158  1.167975e-02  3.014590e-03  3.372367e-03
## 159 -9.575008e-03 -2.188387e-02 -9.165925e-03
## 160  3.114122e-02 -1.909631e-02 -3.044874e-03
## 161 -2.439615e-02  9.541327e-03 -1.888645e-03
## 164  4.544744e-03  2.823195e-03  2.913976e-03
## 165 -1.995356e-02 -1.966513e-02  6.892145e-03
## 166  1.072123e-02  1.056763e-02  4.272685e-03
## 167 -2.040221e-02  3.863743e-02  2.453830e-03
## 168 -4.323779e-02  3.986592e-02 -3.757730e-03
## 169 -2.248941e-02 -4.228336e-02 -6.501413e-03
## 171 -1.697433e-02  6.816860e-03  2.499306e-02
## 172 -2.468178e-02 -3.050935e-02  6.753749e-03
## 174  2.393579e-02  5.161699e-03 -4.167966e-02
## 175 -2.393560e-02  1.635671e-02  5.522664e-03
## 176  1.236125e-02  1.838142e-02  1.280092e-02
## 177  2.158140e-02 -2.198079e-02  1.070375e-04
## 178  2.595423e-02  1.356551e-03  2.684406e-02
## 179 -3.121677e-02 -3.077104e-02 -2.097909e-02
## 180 -4.469004e-02 -2.074515e-02 -6.522546e-03
## 183 -4.041770e-02  9.459887e-03  4.664823e-03
## 184  2.084695e-02  3.637016e-03  4.887241e-03
## 185 -1.453501e-02  1.043681e-02  1.604165e-03
## 186 -1.445763e-02 -1.953102e-03 -2.394674e-03
## 187 -1.628285e-02  2.928841e-02  1.414416e-03
## 188  1.343308e-02  3.164795e-02 -1.914392e-03
## 190  5.757721e-03 -3.258064e-02  2.458861e-04
## 191 -2.227542e-02 -2.606842e-02  3.318430e-03
## 193  2.498835e-02 -1.369412e-02 -2.626418e-03
## 194 -1.203377e-02 -1.956225e-02 -5.784284e-04
## 195 -2.028237e-02 -2.551323e-02  1.943493e-03
## 196  2.676737e-02 -2.347368e-02 -8.068786e-03
## 197 -1.159880e-02 -3.314744e-03 -6.450510e-03
## 198 -1.905577e-02 -1.542214e-02 -5.201625e-04
## 199  5.409469e-02  1.470525e-02 -3.753201e-03
## 202  1.030379e-02 -2.104231e-02 -4.634172e-03
## 203  1.602041e-02 -3.977801e-02  2.227714e-03
## 204 -1.885365e-02 -2.395596e-02  3.981089e-04
## 205  2.648917e-02 -2.117364e-02 -4.403162e-03
## 206  1.884905e-02  3.443835e-02  1.017737e-03
## 207 -2.320430e-02 -1.682005e-02 -5.702476e-03
## 209 -2.302837e-02 -5.919069e-04  6.872356e-03
## 210  2.208614e-02  2.496802e-02 -5.600556e-03
## 212 -2.138837e-02 -3.297971e-02 -5.503548e-03
## 213 -7.014428e-03  2.055065e-02 -9.636014e-03
## 214 -1.523713e-03 -2.067926e-02 -1.626705e-02
## 215  1.484578e-02  2.877875e-02 -6.469218e-03
## 216  2.263841e-02  3.082974e-02  5.023452e-03
## 217 -1.050999e-02 -4.799801e-03  3.011456e-03
## 218 -1.053235e-02  1.155138e-02 -4.255465e-03
## 221  7.342924e-03  8.561638e-03  4.664253e-03

```

```

## 222  1.827466e-02  3.760359e-02 -1.686165e-03
## 223 -1.986648e-02 -3.471883e-02 -1.348187e-03
## 224  3.929776e-02  1.351171e-02  5.353922e-03
## 225  2.256581e-02 -5.419535e-03  6.708070e-02
## 226 -2.216283e-02  1.821861e-02  2.265963e-03
## 228  6.443977e-02  8.059152e-03  5.435373e-03
## 229 -2.408937e-02 -2.263122e-02 -1.404319e-02
## 231 -1.501251e-02 -2.394842e-02  5.479756e-03
## 232 -1.011008e-02 -3.544204e-02  1.071891e-02
## 233 -3.328890e-02  3.286966e-02  1.626415e-01
## 234  3.088006e-02  3.126709e-02  1.648458e-03
## 235  4.698181e-02  1.986443e-02  1.476540e-03
## 236 -1.912144e-02  2.025573e-02 -2.348889e-03
## 237 -2.160263e-02 -2.409027e-02  2.180598e-03
## 240 -2.259147e-02  5.105517e-02  2.922350e-03
## 241  1.346106e-02  5.060684e-04  3.554756e-06
## 242 -2.079480e-02 -2.163840e-02 -6.897240e-03
## 243 -1.103366e-02 -3.407840e-02  8.786827e-04
## 244  1.541228e-02 -1.400942e-02  2.499937e-03
## 245 -1.516615e-02  2.095332e-04 -1.019979e-04
## 247 -5.097930e-04  1.129494e-02 -2.116438e-02
## 248 -2.326366e-02 -2.920887e-02 -4.534897e-03
## 250  1.055599e-02  3.592526e-03  2.924710e-03
## 251  3.638773e-02 -1.193800e-02  1.059868e-03
## 252 -2.194904e-02 -1.018516e-02  8.921607e-03
## 253 -2.176261e-02 -2.915680e-02 -4.502407e-03
## 254  3.042319e-02  2.951342e-02  1.213867e-03
## 255 -5.566528e-03 -2.038348e-02  4.318186e-03
## 256  2.503167e-02  2.633520e-02  8.286929e-03
## 259  1.807354e-02  3.869427e-02  8.412818e-03
## 260 -2.065505e-02  2.043119e-02 -1.483313e-04
## 261  1.014614e-02  1.818174e-02 -2.042009e-02
## 262 -2.063934e-02 -3.088770e-02 -3.901186e-03
## 263  2.225648e-02  1.299831e-02 -9.312096e-03
## 264  2.157945e-02  3.755413e-02 -3.261021e-03
## 266  4.565693e-03  3.430039e-02 -2.309583e-03
## 267  2.671104e-02  4.204258e-02  4.249135e-03
## 269  3.355711e-02 -2.536614e-02 -5.987047e-02
## 270 -2.087289e-02  2.642975e-02  2.002048e-03
## 271  2.598706e-02  2.508551e-02 -1.976253e-02
## 272 -2.622993e-02  2.596433e-02  9.405403e-03
## 273  2.672662e-02  9.025708e-03  4.248924e-03
## 274 -1.656117e-02  6.486664e-03  3.986777e-03
## 275  1.311768e-02  2.183342e-02  1.349179e-04
## 278  3.215741e-02 -3.466751e-02 -2.638144e-03
## 279 -2.361449e-02  2.958983e-02  3.711002e-03
## 280 -2.228741e-02 -2.087812e-02 -6.110564e-04
## 281 -2.136432e-02 -2.723381e-02  2.787560e-03
## 282  2.459164e-02 -2.284800e-02 -3.864346e-02
## 283 -3.446531e-02 -3.358705e-02 -1.020631e-02
## 285 -5.144314e-02 -1.800273e-03  4.788148e-03
## 286  2.144201e-02 -4.222296e-02 -2.957663e-02
## 288 -7.210060e-04  2.257911e-02 -4.593074e-02
## 289 -2.093183e-02 -1.476860e-03 -1.223470e-03

```

```

## 290 -2.248276e-02 2.912982e-02 -8.660415e-04
## 291 -2.437146e-02 2.209383e-02 6.836186e-03
## 292 -1.983965e-02 2.970615e-02 -3.511827e-03
## 293 3.105629e-02 3.804657e-03 1.280634e-03
## 294 -1.776584e-02 7.392225e-03 -3.196691e-02
## 297 -1.490164e-02 1.944202e-02 -2.188127e-02
## 298 -9.791505e-03 2.634399e-02 -4.030919e-03
## 299 2.771231e-02 -6.197879e-03 1.108420e-03
## 300 -3.180567e-02 2.645969e-02 -1.599968e-03
## 301 -3.135194e-02 -3.107805e-02 -1.547730e-03
## 302 -1.245654e-03 -2.031087e-02 -7.096984e-03
## 304 -1.239878e-02 1.679621e-03 -7.508802e-03
## 305 -1.889826e-02 1.567612e-02 -5.130856e-03
## 307 2.568766e-02 2.189305e-02 -2.217010e-03
## 308 2.995936e-02 -3.305777e-02 3.733413e-03
## 309 -5.309235e-03 -4.110966e-02 -4.190667e-03
## 310 2.710787e-02 2.425785e-02 -4.982249e-04
## 311 1.835177e-02 3.705302e-02 -6.214325e-03
## 312 2.242613e-02 3.539909e-02 -1.331110e-02
## 313 -2.125582e-02 4.534023e-02 4.975902e-03
## 316 2.102983e-02 -4.178372e-02 5.146341e-03
## 317 -2.320591e-02 7.424703e-03 -3.345400e-03
## 318 -1.760865e-02 1.343498e-03 -2.131196e-03
## 319 9.583590e-03 7.890125e-03 -4.474968e-02
## 320 5.839139e-02 3.404178e-02 4.830158e-03
## 321 3.060146e-02 -2.184942e-03 3.116275e-04
## 323 -3.914103e-02 4.175679e-02 -7.067029e-03
## 324 -8.983133e-03 -2.717438e-02 -3.019790e-03
## 326 2.313239e-02 -3.889555e-02 1.863095e-03
## 327 2.330005e-02 1.238861e-02 -2.626549e-03
## 328 -2.377075e-02 1.334456e-02 2.659200e-03
## 329 -1.333683e-02 -2.059657e-02 4.899225e-03
## 330 1.830791e-02 1.007981e-02 1.892587e-03
## 331 -2.514318e-02 1.599304e-02 9.447677e-03
## 332 -3.677495e-02 2.079553e-02 -4.313841e-03
## 335 -2.107485e-02 2.241322e-02 -2.586266e-02
## 336 -1.730383e-02 -3.035339e-02 6.267013e-03
## 337 3.140740e-02 -2.838551e-02 -3.744953e-03
## 338 1.138781e-02 9.519269e-04 -2.419585e-03
## 339 7.425072e-03 2.986816e-02 7.574390e-03
## 340 -2.683030e-02 -3.114931e-02 -4.217370e-02
## 342 1.089465e-02 1.446300e-02 -1.499644e-02
## 343 1.877350e-02 -1.044705e-02 -1.906825e-04
## 345 -2.214276e-02 -2.482389e-02 -9.697723e-03
## 346 1.323371e-02 2.556627e-04 4.540926e-03
## 347 2.411251e-02 -3.060143e-02 2.516078e-03
## 348 -2.471795e-02 3.506479e-02 -3.455872e-03
## 349 1.370030e-02 1.765341e-02 -4.673083e-04
## 350 1.905512e-02 -2.706169e-02 -8.155736e-03
## 351 -2.145634e-02 -2.076843e-02 2.781532e-03
## 354 -1.365637e-02 1.518919e-02 1.384859e-03
## 355 1.534546e-02 -2.272594e-02 -3.752496e-03
## 356 -2.259691e-02 1.473571e-02 -8.619665e-03
## 357 -2.052303e-02 -5.054349e-03 2.228081e-03

```

```

## 358  1.438914e-02  2.528846e-02  2.804510e-03
## 359  2.316132e-02  1.749332e-02 -6.430228e-03
## 361 -1.183594e-02 -9.151390e-03  2.138544e-03
## 362  3.036282e-02  3.298623e-02 -7.810757e-04
## 364 -4.078334e-02  1.695994e-03 -3.587992e-03
## 365 -2.200042e-03 -4.677311e-02 -8.915647e-04
## 366 -2.208498e-02  1.108053e-02 -4.158099e-03
## 367  3.811926e-02 -1.877153e-02  3.469767e-03
## 368 -7.420561e-03 -4.642009e-02 -1.932358e-03
## 369  1.047881e-02 -1.931898e-03 -7.878534e-03
## 370  2.664540e-02  2.372921e-02  3.103765e-03
## 373  1.553918e-02  2.290109e-02  7.546106e-03
## 374 -5.841724e-02  2.541637e-02 -3.050471e-03
## 375 -2.046055e-02 -2.252276e-02  3.916382e-03
## 376  2.048765e-02 -2.208687e-02 -2.681409e-03
## 377 -8.305934e-03  3.562316e-02 -9.785247e-04
## 378  9.170697e-03 -1.657586e-02  1.216152e-03
## 380 -2.199716e-02 -2.904335e-02 -8.777104e-03
## 381 -3.608289e-03  1.247192e-02 -2.940185e-04
## 383  2.274086e-02 -3.204761e-02  3.529955e-03
## 384 -1.651694e-02  2.183626e-02 -3.000680e-02
## 385 -2.065284e-02 -4.114556e-02  1.160224e-03
## 386 -2.171586e-02 -1.314200e-02 -4.398065e-03
## 387  3.242742e-02 -2.579668e-02  4.981467e-03
## 388 -1.837479e-02  2.637267e-02  4.794509e-03
## 389 -1.921709e-02  2.837382e-02 -7.759248e-03
## 392  4.439794e-02  2.484450e-02 -9.270861e-02
## 393 -8.138386e-04 -4.229293e-03 -4.512905e-03
## 394  1.790441e-02  4.340942e-02  3.909054e-03
## 395  2.754975e-02  1.383679e-02 -1.094969e-03
## 396 -2.364379e-02  2.340801e-02 -3.977056e-04
## 397 -2.121666e-02 -2.664981e-02 -5.181130e-03
## 399  2.761594e-02  4.116781e-02  2.522099e-04
## 400 -2.163655e-02 -2.292192e-02  5.287950e-03
## 402  2.487067e-02  3.213346e-02 -5.973659e-04
## 403 -2.172225e-02  5.702156e-03  4.917721e-03
## 404 -2.391788e-02 -2.435743e-02 -9.304722e-03
## 405 -4.277870e-02 -2.254345e-02 -2.771626e-03
## 406  2.578251e-02 -3.580535e-02  2.102150e-03
## 407  1.962848e-02  2.715236e-02  3.044968e-03
## 408 -2.146724e-02  9.899421e-03  5.618513e-03
## 411 -1.519820e-02  5.242729e-03  6.565660e-03
## 412  1.096268e-02 -2.097239e-02 -3.284728e-03
## 413  2.360001e-02  2.513629e-02  3.857022e-03
## 414  1.444369e-02  4.541937e-03 -1.074682e-03
## 415  2.066208e-02 -6.317862e-03 -4.373785e-03
## 416 -2.096074e-02  9.749322e-03  5.440819e-03
## 418  1.747303e-02  2.411806e-02  5.186396e-03
## 419 -1.210658e-02 -1.343263e-02  3.436256e-04
## 421 -1.136793e-02  3.318966e-02 -3.218631e-03
## 422  3.005000e-02  1.024405e-02 -2.028944e-02
## 423 -1.803507e-02 -3.301587e-03 -5.885210e-04
## 424 -1.826617e-02  1.962002e-02  6.512891e-03
## 425 -9.137744e-03  2.357493e-03 -4.792770e-03

```

```

## 426 -3.042436e-02 -4.478198e-02  3.771334e-03
## 427  2.283814e-02  2.775527e-02 -8.948339e-03
## 430  7.206127e-03 -8.101446e-03  1.537347e-03
## 431  2.381336e-02 -2.030941e-02 -7.852436e-03
## 432  1.791812e-02 -1.558015e-03  1.488941e-03
## 433 -2.021797e-02  2.420459e-02  6.687149e-03
## 434  2.055501e-02 -2.243798e-02  5.226797e-02
## 435  1.794866e-02  2.618743e-02 -1.290871e-02
## 437  2.567549e-02  4.437587e-02 -2.741414e-03
## 438 -1.957171e-02 -3.224455e-02  4.334706e-03
## 440  2.353288e-02  4.583327e-02 -1.456562e-03
## 441 -2.763859e-02 -2.528100e-02  3.021614e-03
## 442 -2.128053e-02  4.165155e-02  2.571568e-03
## 443 -1.831737e-02  1.713192e-02  6.871944e-03
## 444  2.075214e-02  4.914215e-03 -7.974226e-04
## 445  3.089889e-02 -3.203046e-03  4.860676e-03
## 446  1.463623e-02 -2.088061e-02 -7.899489e-04
## 449 -2.785315e-02  3.000959e-02 -3.603098e-03
## 450 -4.798081e-03  1.769259e-02 -3.242436e-03
## 451  2.146575e-02  3.636799e-02  1.414226e-01
## 452  2.321044e-02 -1.692934e-02 -1.706394e-03
## 453 -2.282544e-02  2.676044e-02  1.982952e-03
## 454  2.491336e-02 -2.104794e-02 -4.835632e-03
## 456  2.886659e-02  2.137235e-02  4.153926e-03
## 457  1.653661e-02 -1.957232e-02  1.903313e-03
## 459 -1.699702e-02 -2.630800e-03 -2.539676e-02
## 460 -7.361711e-03 -2.742278e-02 -2.157570e-03
## 461  3.628434e-02  1.631477e-02 -8.147420e-03
## 462 -1.953392e-02  1.873616e-02  8.451773e-03
## 463 -2.482851e-02  3.009955e-03  1.402718e-03
## 464  2.283451e-02 -3.090744e-02  3.488639e-03
## 465  2.935085e-02 -6.603270e-03  6.418860e-03
## 468 -1.968635e-02  2.037577e-02  3.604096e-03
## 469 -2.077053e-02  2.210552e-02 -6.722910e-04
## 470  1.364445e-02 -3.047025e-02 -8.399109e-03
## 471  1.008847e-02 -1.832611e-02 -3.224791e-03
## 472 -1.066717e-02  2.107636e-02 -2.346915e-05
## 473  2.821419e-03 -1.924453e-02 -1.529905e-03
## 475  2.913139e-02 -1.748330e-03  3.641939e-02
## 476  2.301384e-02 -1.686653e-02 -4.116266e-03
## 478 -1.756413e-02  6.979573e-03  5.183728e-03
## 479 -2.191990e-02 -2.511780e-02 -4.791572e-03
## 480  1.767590e-02 -3.395988e-03  1.359515e-03
## 481  2.622626e-03 -3.063901e-04 -2.305628e-03
## 482 -2.209644e-02  3.331407e-03 -3.178414e-02
## 483  2.526476e-02 -1.042910e-02 -1.338911e-03
## 484  2.465689e-03 -4.376130e-02 -9.357815e-03
## 487  1.438888e-02 -4.902460e-02  6.475594e-03
## 488 -1.234850e-02 -1.354068e-02  5.974723e-04
## 489  2.811629e-02 -2.321186e-02 -5.954820e-03
## 490 -2.185181e-02  3.617100e-02 -5.544816e-03
## 491  2.114318e-02  2.337919e-02  3.061495e-03
## 492  1.782773e-02  2.468174e-02  2.575073e-03
## 494  7.370421e-03 -4.447179e-03  3.656732e-03

```

```

## 495 -1.928392e-02 -3.498411e-02 -5.199406e-02
## 497 -2.366205e-02  1.426290e-02 -3.805933e-03
## 498  1.038029e-02  3.363197e-02  5.571536e-02
## 499  1.724774e-02 -1.861867e-03 -1.759004e-03
## 500 -2.326873e-02 -2.511560e-02 -7.190494e-04
## 501  1.237072e-02  8.741120e-03  4.508905e-04
## 502  1.801915e-02 -1.430728e-02  1.621189e-03
## 503 -2.050749e-02  7.044964e-03 -3.672930e-03
## 506  2.079216e-02  2.487324e-02  2.557716e-04
## 507 -4.453577e-03 -4.433765e-02  2.244655e-03
## 508  2.865369e-02  2.662720e-02  6.731541e-02
## 509 -7.554536e-03 -5.696575e-04  1.444159e-03
## 510  2.097484e-02 -1.082378e-02 -2.378156e-03
## 511  2.407574e-02  1.551803e-03 -7.341285e-03
## 513 -2.366986e-02  7.386766e-03  3.268743e-03
## 514  2.345831e-02  6.875173e-03 -3.782972e-03
## 516 -1.623885e-02  3.978112e-02 -5.476893e-02
## 517  2.641819e-02 -7.428675e-04  4.214416e-03
## 518 -2.191697e-02 -2.921389e-02  3.681973e-03
## 519 -1.116984e-01  4.795900e-03 -5.184047e-02
## 520  1.356461e-02  1.096792e-02  6.219688e-03
## 521 -2.338205e-02  4.321856e-02 -3.118869e-03
## 522 -1.428995e-02  2.695414e-02  7.932957e-03
## 525 -2.044560e-02  2.762225e-02 -3.094451e-03
## 526 -2.155492e-02  1.207026e-02  6.806779e-03
## 527 -8.859895e-03 -2.349562e-02 -8.589657e-03
## 528  4.079815e-02  5.313955e-02  9.941477e-02
## 529  2.328739e-02  2.241644e-02 -4.224258e-03
## 530 -2.337331e-02  5.117226e-03 -4.108780e-03
## 532  4.218086e-03  3.344258e-02  1.607317e-03
## 533 -8.033632e-03  3.422578e-02 -3.564312e-02
## 535 -2.237168e-02  2.146718e-02 -5.136611e-03
## 536  2.849673e-02  1.658227e-02  3.020132e-03
## 537  2.953105e-02  1.540655e-02  5.458309e-03
## 538  9.487946e-03 -2.513305e-02 -6.893306e-03
## 539 -1.645430e-02  1.856441e-02 -3.505737e-02
## 540  2.135100e-02 -2.317257e-02  7.431164e-03
## 541 -6.821626e-03 -3.518123e-02  1.814579e-03
## 544 -6.742639e-03  1.573726e-02  1.900533e-03
## 545 -1.522011e-02 -1.761355e-02  4.172725e-04
## 546 -1.878682e-02  4.306794e-02  3.576895e-03
## 547  1.956226e-02  1.958573e-02 -2.421133e-03
## 548 -2.227414e-02 -2.309500e-02 -6.606286e-04
## 549  1.228138e-02  2.522621e-02 -8.978180e-04
## 551 -1.566907e-02  2.134606e-03  2.919026e-03
## 552 -1.459497e-02 -1.395220e-02  1.256346e-03
## 554 -3.258631e-02 -1.361279e-02 -7.135650e-04
## 555 -2.407929e-02  1.731271e-02  2.797453e-03
## 556 -4.301306e-02 -2.030077e-02  3.853621e-04
## 557  2.473581e-02  2.923955e-02  1.416055e-03
## 558  2.459214e-02 -2.182429e-02  1.777679e-03
## 559  2.316624e-02  3.732702e-02  7.901482e-03
## 560  3.144645e-02 -2.706788e-02  1.108107e-03
## 563 -1.773740e-02 -2.261147e-03 -3.621575e-02

```

```

## 564  1.144786e-03  3.157029e-02  2.065886e-03
## 565 -2.214084e-02 -2.458742e-02 -1.100163e-02
## 566 -2.188444e-02  1.243595e-02 -2.739631e-03
## 567 -1.991208e-02  3.526283e-02 -2.992605e-03
## 568 -2.255953e-02  2.789473e-02  5.835451e-04
## 570  1.252865e-03 -3.276240e-02  3.292551e-03
## 571  1.812997e-02 -2.671645e-02  8.562933e-03
## 573 -2.251910e-02  2.583133e-02 -6.558571e-04
## 574 -1.941681e-02 -2.486696e-02  3.774913e-03
## 575 -1.859723e-02  5.601227e-04  2.197812e-03
## 576 -1.744520e-02 -1.940223e-03 -1.113613e-02
## 577  1.529581e-02  2.669123e-02  2.793649e-04
## 578 -1.604215e-02  2.122245e-02 -2.648671e-02
## 579  1.778262e-02  3.014937e-02  4.051296e-03
## 582 -2.264921e-02  1.826763e-02  1.102469e-02
## 583 -7.005683e-02  1.832609e-02 -6.851273e-04
## 584  6.704276e-03 -3.778405e-03  3.697764e-03
## 585 -2.247591e-02 -2.928144e-02 -3.067258e-03
## 586 -2.399604e-02 -4.053512e-04  1.155171e-04
## 587  4.198987e-03  5.020853e-03  4.261851e-03
## 589 -2.621232e-02  3.087107e-04 -1.144924e-03
## 590 -5.338932e-03  2.871947e-02  2.610172e-03
## 592 -2.015579e-02 -1.897701e-02 -8.743038e-03
## 593  1.289567e-02  3.501232e-02 -7.304256e-03
## 594  2.792903e-02  1.805598e-02 -2.977581e-03
## 595 -1.991515e-02  1.992456e-03 -2.012961e-03
## 596 -5.854656e-02  2.201899e-02 -3.191368e-03
## 597 -5.810260e-03  1.823644e-02 -4.036303e-03
## 598  2.588117e-02  2.348283e-02 -6.735905e-03
## 601  7.721638e-03  1.744535e-02 -4.761327e-03
## 602  4.865218e-03  2.078290e-04  2.457639e-03
## 603 -5.762061e-04 -1.924986e-03  5.597254e-03
## 604 -1.929033e-02 -1.239288e-02 -2.699126e-03
## 605 -1.099948e-02  2.721908e-02  4.542997e-03
## 606 -2.130657e-02 -1.984131e-02 -6.545863e-03
## 608 -1.630844e-02 -2.989616e-02 -1.948738e-02
## 609 -2.946524e-02 -2.904243e-02  2.092713e-04
## 611 -3.860008e-02  1.914995e-02 -7.677867e-02
## 612 -2.454920e-02 -1.773650e-02 -3.795844e-03
## 613  2.349915e-02  2.105694e-02 -2.577608e-03
## 614 -1.551927e-02  4.982320e-03 -1.915771e-02
## 615 -1.005907e-02 -2.068232e-02 -9.098350e-03
## 616 -2.006807e-02  1.131231e-02  5.103543e-03
## 617 -2.800345e-02 -3.591161e-03 -2.687711e-02
## 620  2.285666e-02  1.325681e-02  4.594125e-03
## 621  2.572354e-02 -3.954543e-02  3.888636e-04
## 622  1.986290e-02  5.648624e-04 -9.346586e-02
## 623  2.654194e-02 -1.757031e-02 -1.334295e-03
## 624 -2.753954e-02 -2.847323e-02  8.828667e-03
## 625 -4.332108e-04  2.005334e-02  3.517924e-03
## 627 -2.340384e-02 -2.464777e-02 -3.169638e-03
## 628  7.292144e-03  2.504271e-02  8.053693e-03
## 630 -1.441115e-02 -1.824144e-02 -8.013494e-04
## 631  2.314229e-02 -6.066837e-03  8.402545e-04

```

```

## 632  1.608040e-02  1.849351e-02 -4.746751e-03
## 633 -2.037082e-02  3.623118e-02 -4.453471e-03
## 634  2.363825e-02  2.701004e-03 -4.270759e-02
## 635 -1.724915e-02 -3.789924e-02 -9.168259e-04
## 636 -1.880889e-02  4.250222e-02 -9.264387e-03
## 639  2.330147e-02 -6.719834e-03  9.336876e-04
## 640  1.435938e-02 -1.132532e-02  1.897959e-03
## 641 -9.377421e-02  2.452849e-02 -1.205401e-02
## 642  1.752849e-02 -1.933468e-02  1.006721e-03
## 643 -8.760735e-03  3.754758e-02  7.379278e-03
## 644  1.426776e-02  1.734635e-02 -3.006788e-02
## 646 -2.102794e-02  1.816640e-02  2.426956e-03
## 647  3.934147e-02 -9.856224e-03 -2.110824e-03
## 649  2.720932e-02  5.816039e-03  7.290593e-03
## 650 -1.884741e-02  3.216064e-02  2.026087e-03
## 651 -1.138648e-02  2.452266e-02 -1.721733e-02
## 652 -1.918364e-02  3.679532e-02  6.491177e-03
## 653 -1.897212e-02  3.834467e-02 -1.830428e-03
## 654 -2.354075e-02 -3.170136e-02 -4.562882e-05
## 655 -2.096129e-02  2.968179e-02  1.350413e-03
## 658  2.270060e-02  5.646584e-03 -9.716517e-04
## 659 -2.269126e-02 -2.684165e-02  2.938421e-03
## 660  2.269191e-02 -2.515204e-02  4.766193e-03
## 661 -6.548069e-02 -3.436601e-02 -3.124668e-03
## 662 -6.105367e-03 -1.274266e-02 -2.853003e-05
## 663 -2.035637e-02 -3.327293e-02  4.827935e-04
## 665 -2.151834e-02  2.569465e-02  5.328164e-03
## 666 -1.761977e-03  2.150637e-02  2.959647e-03
## 668  8.061094e-03 -1.953888e-02 -2.020858e-02
## 669  2.771765e-02  1.583275e-02 -4.050369e-03
## 670 -2.172333e-02 -2.909196e-02  5.323553e-02
## 671  1.531677e-02  3.461588e-02 -4.954980e-04
## 672  3.114818e-02 -2.765320e-02 -6.216842e-02
## 673  2.930319e-02  3.303898e-02  2.050273e-03
## 674  3.232897e-02  4.783753e-02  7.117808e-04
## 677 -2.347014e-02 -5.383869e-04  2.661755e-03
## 678  1.506043e-02  3.353175e-03  2.464876e-03
## 679  8.977848e-03  1.215525e-02  1.299850e-03
## 680  3.686924e-02 -2.909668e-02  1.305135e-02
## 681  1.138328e-02  1.935760e-02 -3.336813e-03
## 682  2.914381e-02 -2.750342e-02  5.850059e-04
## 684 -2.148768e-02 -2.840979e-02 -1.212129e-03
## 685 -1.726928e-02 -2.997766e-02 -1.567686e-02
## 687  3.352987e-02  1.805573e-02 -3.070442e-02
## 688  4.183323e-03 -4.122190e-03 -4.084500e-02
## 689 -2.146982e-02 -2.561562e-02 -2.737412e-04
## 690 -2.322444e-02  2.659502e-02  9.648819e-03
## 691  2.709391e-02 -1.539525e-03 -2.396018e-03
## 692  2.197775e-02  2.339696e-02 -8.325117e-03
## 693  2.096660e-02 -2.834264e-02 -1.246895e-02
## 696  5.061409e-03  4.365630e-02  3.737782e-03
## 697  2.739799e-02  8.996275e-03  1.904636e-03
## 698  2.138970e-02  1.416485e-03 -6.488570e-03
## 699 -2.294472e-02 -4.192691e-03 -4.340610e-03

```

```

## 700  1.250743e-02  3.649708e-02 -7.865333e-03
## 701 -1.755733e-02  1.673449e-02  5.398266e-03
## 703  1.610651e-02  3.695908e-02 -1.574707e-02
## 704  1.206946e-02  1.548255e-02  1.155985e-02
## 706  5.143808e-03 -2.507437e-02  3.703879e-03
## 707 -1.944266e-02  3.691237e-02  5.698721e-03
## 708  6.257788e-03  1.942634e-02  2.539942e-03
## 709  2.075630e-02  7.994000e-03  7.957423e-02
## 710  2.380723e-02 -3.574484e-02 -7.294299e-04
## 711 -1.665354e-02  2.443651e-02  4.650913e-03
## 712  2.418716e-02  6.259984e-03  8.883881e-04
## 715 -1.186487e-01  3.323127e-02 -3.801987e-02
## 716 -3.513875e-02  1.432374e-02 -2.365094e-03
## 717 -5.836773e-02  3.611876e-02 -8.806835e-03
## 718 -1.975502e-02  2.549912e-02  2.901240e-03
## 719 -2.129659e-02 -2.807644e-02 -2.530677e-02
## 720  1.260384e-02 -3.379472e-03 -2.003230e-03
## 722 -2.239642e-02  1.421861e-02 -6.707159e-03
## 723 -1.879062e-02  4.462882e-04 -8.050250e-04
## 725  4.418369e-02 -2.925384e-02 -6.666951e-03
## 726 -1.825723e-02 -1.050669e-03  1.894704e-03
## 727  5.990640e-03 -6.501287e-03 -2.547430e-02
## 728 -2.155318e-02  4.454993e-02 -8.024975e-03
## 729 -3.216011e-02 -3.523887e-02 -3.554235e-03
## 730  3.497037e-02  2.487084e-02 -1.630718e-03
## 731 -6.394484e-02  1.191081e-02 -2.391060e-03
## 734 -2.194633e-02 -5.959240e-03 -3.352259e-03
## 735 -3.021414e-02  3.257980e-02  2.218432e-04
## 736  1.305394e-02  3.328211e-02 -1.119804e-02
## 737 -2.056515e-02  1.473660e-02 -3.986649e-03
## 738 -4.501808e-02  3.129435e-02  2.869428e-04
## 739  2.069135e-02  3.509040e-02  7.780149e-03
## 741  4.944180e-03  1.107829e-02  3.820755e-03
## 742  8.317416e-03  1.957132e-02 -4.967442e-03
## 744  2.091902e-02 -3.782493e-02  7.522935e-04
## 745 -2.617930e-02 -9.457560e-03  8.474327e-03
## 746 -1.949111e-02 -8.628915e-03 -4.319046e-02
## 747 -2.235824e-02  3.991132e-02  4.600613e-03
## 748  2.370999e-02  2.633209e-02  3.226214e-03
## 749  2.606418e-03  2.482490e-03  5.304476e-03
## 750 -2.744184e-02 -3.804819e-02  2.303048e-04
## 753 -2.139181e-02  3.105434e-02  4.583789e-04
## 754  3.572653e-03 -1.128821e-02 -9.233674e-03
## 755  1.396974e-03  1.095659e-02 -2.086102e-03
## 756 -1.821857e-02 -2.504570e-02 -3.491532e-03
## 757  5.382036e-03 -2.883622e-02  1.984111e-03
## 758  2.220089e-02 -3.370342e-02  3.403903e-04
## 760  1.338802e-02  1.035053e-02  5.127102e-03
## 761  2.925952e-02  1.679240e-02 -7.860432e-04
## 763  2.324343e-02  2.120274e-02 -1.316866e-02
## 764 -1.313389e-02 -2.724715e-02  6.926051e-03
## 765  4.929258e-03  4.361923e-02  6.767502e-03
## 766 -6.433534e-03  3.039086e-02  9.346025e-03
## 767 -2.838975e-02 -2.332661e-02 -2.350805e-02

```

```

## 768 -1.085061e-02 -2.219021e-02 -5.484789e-02
## 769 2.854191e-02 -5.817066e-03 -5.296489e-03
## 772 1.090745e-02 1.719674e-02 2.952811e-03
## 773 -3.276780e-02 3.363568e-02 -8.819539e-03
## 774 -1.269888e-02 -7.229300e-04 1.551902e-03
## 775 1.374413e-02 -3.318175e-02 1.684013e-03
## 776 5.916669e-03 -4.176225e-02 2.122528e-02
## 777 1.799241e-02 1.471187e-03 -1.381146e-02
## 779 1.339917e-02 -1.248248e-02 -1.903597e-05
## 780 3.520709e-02 8.752265e-03 6.870133e-03
## 782 1.580475e-02 8.995802e-03 1.369073e-03
## 783 4.529167e-03 -1.639436e-02 -2.693779e-03
## 784 -1.817479e-02 -2.372969e-02 1.661805e-03
## 785 -2.563953e-04 -4.152055e-02 -1.417479e-02
## 786 2.265350e-02 4.053677e-03 -4.059466e-03
## 787 2.276737e-02 -2.458537e-02 3.020001e-03
## 788 -2.618984e-02 2.532305e-02 2.358589e-04
## 791 6.986565e-03 3.388905e-02 -6.900386e-03
## 792 2.997843e-02 3.048287e-02 -3.377925e-03
## 793 1.951738e-02 -2.227725e-02 3.258843e-03
## 794 -1.365372e-03 1.921078e-02 -5.053175e-03
## 795 2.260794e-02 -2.475969e-02 -5.792492e-03
## 796 -1.734948e-02 -3.607264e-02 4.134515e-03
## 798 -2.817805e-02 1.307409e-02 3.760343e-03
## 799 2.082310e-02 2.174621e-02 -7.719183e-03
## 801 1.630364e-02 3.353332e-02 2.120767e-02
## 802 -1.873780e-02 3.470965e-02 2.578813e-03
## 803 2.613545e-02 -4.029718e-03 1.419573e-03
## 804 -1.428305e-02 -4.410954e-03 1.191121e-03
## 805 -2.231820e-02 2.812321e-02 6.756774e-03
## 806 1.002609e-02 3.982986e-02 -2.410982e-03
## 807 -2.191465e-02 -2.448447e-02 1.569147e-02
## 810 1.247234e-02 -1.387720e-02 -4.717489e-03
## 811 -4.076624e-02 -2.769316e-02 -1.132958e-03
## 812 -1.711753e-02 3.024116e-02 -4.981949e-02
## 813 1.286373e-02 -1.441707e-02 2.664454e-03
## 814 2.883240e-02 -3.338666e-02 -4.884236e-03
## 815 -1.454539e-02 1.446310e-02 -6.190539e-03
## 817 -1.949645e-02 2.059836e-02 7.613717e-03
## 818 4.708732e-03 -1.160947e-02 5.280398e-03
## 820 2.882875e-02 -2.618451e-02 -9.410540e-04
## 821 -2.230384e-02 -3.443516e-02 -4.589978e-03
## 822 2.790754e-02 8.289075e-03 -2.199602e-03
## 823 1.787244e-02 -2.025858e-02 -1.382296e-02
## 824 -1.100986e-03 -3.787037e-02 5.643132e-03
## 825 -2.265922e-02 5.393440e-04 2.545701e-03
## 826 -1.807574e-02 2.019166e-02 -2.953439e-03
## 829 1.708767e-02 -2.428782e-02 -4.235284e-03
## 830 1.077998e-02 1.007866e-03 3.009362e-03
## 831 -1.985140e-02 4.486925e-02 3.497637e-03
## 832 2.884243e-02 -2.176158e-02 5.377670e-03
## 833 3.405096e-02 5.279090e-02 1.001202e-02
## 834 -1.740321e-02 -3.279266e-02 9.079898e-03
## 836 -8.991774e-03 5.147831e-02 -8.525349e-04

```

```

## 837  1.734810e-02 -2.464843e-02 -4.132451e-03
## 839 -2.082957e-02 -2.380250e-02 -6.262903e-03
## 840  1.933739e-02  2.120407e-02  3.626490e-03
## 841 -2.154556e-02 -2.914346e-02 -4.803656e-03
## 842  3.010786e-02 -1.844120e-02 -4.621778e-03
## 843  1.025779e-02 -2.478206e-02 -9.701009e-05
## 844 -1.805456e-02 -2.381342e-02 -2.122145e-03
## 845  1.901286e-02 -2.160131e-02  7.736235e-03
## 848 -3.295594e-02  3.498640e-02 -8.347182e-03
## 849  2.133734e-02 -1.114357e-02 -8.199546e-04
## 850  2.212759e-02  2.288418e-02  5.934829e-03
## 851 -1.542997e-02  1.941975e-02  2.861760e-03
## 852 -1.721190e-02  2.429908e-02  1.013476e-03
## 853 -2.597337e-02  1.196701e-02 -1.529277e-02
## 855 -1.975187e-02 -2.675645e-03 -1.748489e-03
## 856 -5.261370e-03  3.704774e-02  3.342675e-03
## 858  5.278769e-03 -1.567807e-03 -1.856322e-03
## 859  1.503707e-02  3.097703e-02 -1.550104e-03
## 860 -2.554928e-02 -2.415126e-02 -3.554527e-03
## 861  2.872433e-02 -2.706883e-03  5.184633e-03
## 862 -1.294663e-02 -2.910361e-02 -1.621701e-03
## 863  1.183016e-02 -3.337693e-02 -1.060247e-03
## 864  2.230457e-02 -2.493413e-02  3.205718e-03
## 867  2.644284e-02 -2.221588e-02 -6.708556e-03
## 868  2.4666605e-02  3.868358e-02  3.130741e-03
## 869 -1.035372e-02  3.051365e-02  7.197449e-03
## 870  5.328683e-02 -2.620949e-02  8.510450e-02
## 871 -2.499965e-02 -3.505320e-02 -1.556678e-02
## 872  3.139778e-02 -2.309286e-02 -1.342643e-03
## 874 -5.174373e-02 -2.050243e-03 -1.702858e-03
## 875  6.220090e-03 -1.819648e-02 -3.089408e-03
## 877  6.705897e-03 -2.590189e-02 -1.874547e-03
## 878 -1.540565e-02 -2.915435e-03  1.332343e-02
## 879 -1.870333e-02 -2.047977e-02 -1.156666e-03
## 880  2.009728e-02  2.367885e-02  3.857295e-04
## 881  2.127551e-02 -1.536098e-02  4.696397e-03
## 882 -9.244963e-03 -2.623563e-02 -4.207188e-03
## 883  1.714609e-02 -2.339766e-02  2.784974e-03
## 886 -2.085730e-02 -2.056732e-02 -2.166594e-03
## 887 -1.493142e-02 -3.507104e-02 -6.988233e-03
## 888 -2.856612e-02  2.812146e-02  4.010596e-03
## 889  3.991862e-02  2.003004e-02 -7.544722e-03
## 890 -2.213316e-02  3.220315e-02 -7.589811e-03
## 891 -5.532101e-02  2.125078e-02 -6.223650e-03
## 893  9.692312e-03 -2.743257e-02 -7.094140e-03
## 894  1.065019e-03  1.898282e-02 -3.015452e-03
## 896  2.091166e-02  2.715257e-02 -2.698689e-03
## 897  2.645719e-02  3.078691e-02 -3.224610e-03
## 898 -1.198647e-02 -2.423397e-02 -6.380500e-03
## 899  2.262590e-02 -4.203698e-02 -2.121900e-02
## 900 -2.195426e-02 -1.744852e-02 -8.039314e-04
## 901  2.536464e-02  4.679775e-02 -5.744975e-03
## 902 -2.012810e-02 -2.681698e-02  4.409601e-03
## 905 -1.335473e-02 -2.533220e-02 -2.484850e-02

```

```

## 906  2.438076e-02 -2.710717e-02 -5.404700e-03
## 907  2.173339e-02 -3.288529e-03  3.166356e-03
## 908  2.704840e-02  4.890169e-04 -3.249521e-03
## 909  5.135090e-06 -1.756048e-02 -8.592961e-03
## 910  2.729258e-02 -2.869365e-02  6.069853e-03
## 912  2.898032e-02 -2.325699e-02 -6.710706e-03
## 913  -2.096118e-02 -2.575079e-02  2.473634e-01
## 915  -2.020191e-02  4.107249e-02  3.683610e-03
## 916  7.158255e-03  2.192483e-02  7.666192e-04
## 917  -4.745176e-04 -3.245420e-02  5.832699e-03
## 918  2.418739e-02 -6.084307e-04 -1.272515e-03
## 919  2.986343e-02 -3.011795e-02  1.839326e-03
## 920  1.735212e-02 -2.077401e-02 -2.641845e-04
## 921  -2.450105e-02 -2.931371e-02  1.525212e-03
## 924  5.448790e-03 -2.700793e-02 -1.367540e-03
## 925  -1.692115e-02  3.173882e-02 -7.661278e-02
## 926  -2.267984e-02  3.864972e-02  7.177119e-04
## 927  1.998634e-02  1.339747e-02 -6.983026e-03
## 928  1.927583e-02  3.261293e-03  4.089936e-03
## 929  1.945585e-02  1.667348e-02 -5.927796e-03
## 931  -2.005328e-02 -2.595801e-02  6.364848e-04
## 932  2.383170e-02  2.672361e-02 -4.211969e-03
## 934  -8.983390e-03  2.232022e-02  1.449522e-01
## 935  2.841127e-02  4.355654e-02 -1.173379e-03
## 936  -2.108386e-02 -2.058819e-02  6.156391e-03
## 937  -2.729774e-02 -2.676982e-02 -1.915838e-03
## 938  2.758675e-02 -9.822538e-03 -5.221791e-04
## 939  -1.088020e-02  3.599888e-03 -5.621356e-02
## 940  -2.326130e-02 -2.932131e-02  5.238404e-03
## 943  -2.055779e-02 -3.364667e-02  2.152200e-03
## 944  -9.695394e-03  1.758812e-02 -1.335349e-03
## 945  1.913210e-02 -3.869204e-02 -6.070139e-04
## 946  -2.097386e-02  1.138014e-02  4.108781e-03
## 947  -1.427878e-02  1.055074e-02  3.711735e-03
## 948  2.206335e-02 -3.157656e-02  1.442732e-03
## 950  -1.515181e-02  1.055945e-02  3.826235e-02
## 951  -1.555016e-02 -3.934576e-02  3.371461e-03
## 953  -4.786633e-03  3.557921e-03  1.056205e-02
## 954  -2.830350e-02  2.191674e-02  1.905097e-04
## 955  1.781701e-02 -2.091126e-02  2.435006e-03
## 956  1.049979e-02  3.712969e-02 -1.685979e-04
## 957  9.701017e-03  7.084862e-03 -3.951898e-03
## 958  -7.994048e-02  6.549545e-03 -3.778761e-03
## 959  1.802474e-02 -2.185387e-02  9.101926e-03
## 962  2.504019e-02 -1.716943e-03 -1.908868e-02
## 963  -5.807629e-03 -4.898325e-02  2.468651e-03
## 964  -1.983951e-02  2.067876e-02  3.445543e-03
## 965  -2.242913e-02 -3.514954e-02 -6.688556e-03
## 966  1.528635e-02  4.680856e-02 -2.656864e-04
## 967  2.316167e-02 -6.727622e-03  7.523260e-03
## 969  4.472816e-02  7.898481e-04 -1.761627e-03
## 970  -2.338692e-02  1.758668e-02  8.519166e-03
## 972  -3.990161e-03  3.269622e-02  2.350789e-03
## 973  -2.034669e-02  2.251447e-03  7.058126e-03

```

```

## 974  2.785528e-02 -2.325490e-02  3.185771e-03
## 975  4.354973e-02  1.404186e-02  4.886314e-03
## 976  2.981789e-02  3.262988e-02 -2.774214e-03
## 977 -1.144315e-03 -8.986088e-03 -1.219253e-02
## 978  2.500128e-02  1.680627e-02 -1.097259e-02
## 981  8.683437e-03 -3.353618e-02  3.444028e-03
## 982 -2.119388e-02  2.236165e-02  6.075119e-03
## 983  1.526921e-02 -2.205187e-02 -3.321329e-03
## 984 -2.492098e-02 -2.527444e-02 -5.984455e-03
## 985  1.474283e-03 -1.380593e-02 -4.329777e-04
## 986 -2.237789e-02  2.692474e-02 -6.548592e-03
## 988  1.622784e-02 -3.236040e-02 -7.555421e-03
## 989 -2.467891e-02 -2.375847e-02  3.148967e-03
## 991 -2.354951e-02 -2.779048e-02  1.463267e-02
## 992  2.194305e-02 -9.870532e-03 -7.546277e-02
## 993 -2.444563e-02 -3.934754e-02 -1.211561e-02
## 994  1.539379e-02  2.751524e-02  3.120134e-03
## 995  1.019470e-02 -3.370511e-02  3.322885e-03
## 996 -2.385451e-02 -2.724470e-02 -5.431390e-03
## 997 -1.647087e-02  1.427278e-02  3.563923e-03
## 1000 1.916909e-02  5.636196e-03  2.447104e-04
## 1001 2.852475e-02  1.408202e-03  2.333810e-03
## 1002 2.571658e-02  2.709583e-02 -4.346185e-02
## 1003 -1.628143e-02  1.471738e-02 -6.954067e-03
## 1004 2.536749e-02 -4.359665e-02  1.876710e-02
## 1005 -2.171182e-02 -2.259142e-02  5.201194e-03
## 1007 1.049928e-02  1.967472e-02  3.252693e-03
## 1008 -2.313810e-02 -1.057560e-03 -3.039404e-03
## 1010 -1.017754e-01 -3.155868e-02 -5.692131e-03
## 1011 -7.890405e-03  2.550515e-02  8.557151e-03
## 1012 2.844753e-02 -3.865926e-02  6.206739e-03
## 1013 1.985326e-02 -3.771820e-02 -9.920192e-04
## 1014 2.466398e-02 -5.499049e-03 -1.679510e-03
## 1015 4.351263e-02  2.006807e-02  2.683948e-03
## 1016 1.700040e-02 -1.880324e-03  1.460200e-03
## 1019 4.018210e-03 -2.820865e-02 -4.439483e-03
## 1020 2.662074e-02  2.669031e-02 -3.321096e-03
## 1021 -2.340018e-02  5.059839e-03 -3.273356e-04
## 1022 -1.259144e-02  8.222898e-03  2.942183e-03
## 1023 7.190014e-03 -6.740998e-03 -8.900267e-04
## 1024 2.150103e-02 -3.552552e-02  6.082940e-03
## 1026 -3.030993e-02 -2.033397e-02 -1.414656e-03
## 1027 1.016949e-02  1.541096e-02  6.470717e-03
## 1029 1.689802e-02  2.424425e-02  1.071107e-04
## 1030 4.568948e-03  2.547886e-02 -7.946774e-03
## 1031 7.254316e-03  1.298370e-02  1.836676e-03
## 1032 -2.683625e-02 -2.924092e-02  3.783445e-03
## 1033 1.556828e-02 -1.594964e-02  1.588248e-03
## 1034 -1.706517e-02 -2.629744e-02  1.126183e-02
## 1035 -2.380256e-02  3.209470e-02  7.534567e-03
## 1038 -1.835889e-02 -1.110909e-03 -1.292043e-02
## 1039 -8.771744e-03  1.754064e-02  8.041179e-03
## 1040 -2.539882e-02  3.077144e-02  9.744062e-04
## 1041 -1.989793e-02  4.670907e-03  5.337618e-03

```

```

## 1042 -1.419342e-03 2.230969e-02 -1.692625e-03
## 1043 -2.650279e-02 2.013550e-02 -2.374931e-03
## 1045 3.523427e-02 -3.785871e-02 8.843339e-03
## 1046 -2.115150e-02 4.616177e-02 2.243484e-02
## 1048 5.884602e-03 -1.262711e-02 5.951185e-04
## 1049 3.047455e-02 -2.065666e-02 -3.377207e-03
## 1050 -2.510399e-02 1.712534e-02 -1.033327e-02
## 1051 -3.529368e-03 3.644069e-02 3.223989e-03
## 1052 1.648405e-02 4.273584e-02 9.108804e-03
## 1053 8.669113e-03 -2.586387e-02 -5.822432e-03
## 1054 2.445475e-03 -2.821947e-03 -4.353446e-02
## 1057 -1.983395e-02 2.772524e-02 6.219302e-03
## 1058 -1.887805e-02 -2.619283e-02 1.617573e-02
## 1059 1.803678e-02 3.762734e-02 -1.161410e-02
## 1060 -3.731003e-02 -4.511750e-03 1.367681e-02
## 1061 2.876062e-03 -3.068990e-02 -3.066235e-03
## 1062 -1.990572e-02 -4.324834e-02 2.183436e-03
## 1064 2.725429e-02 1.009924e-02 -9.836093e-05
## 1065 2.412752e-02 -4.285372e-02 -5.058122e-03
## 1067 -4.015348e-03 3.044088e-02 -7.837330e-03
## 1068 1.691644e-02 -1.252444e-02 -9.645857e-04
## 1069 -1.746307e-02 3.354970e-02 2.248407e-03
## 1070 -3.079278e-02 -2.689590e-02 8.111909e-03
## 1071 1.871825e-03 -2.592451e-02 1.618951e-01
## 1072 7.643540e-04 -3.450691e-02 1.200353e-04
## 1073 -4.645979e-02 -5.363006e-03 -3.879107e-03
## 1076 2.739503e-02 1.338091e-02 4.815246e-03
## 1077 -1.884301e-02 1.462204e-02 -6.611060e-02
## 1078 -1.970384e-02 -1.656137e-02 -3.743722e-03
## 1079 3.892203e-02 3.132613e-02 -4.677709e-03
## 1080 -1.918707e-02 -8.324407e-04 -4.973396e-03
## 1081 3.003038e-02 -3.920654e-03 -6.528926e-04
## 1083 -1.906794e-02 1.096944e-02 5.917003e-03
## 1084 1.297527e-02 -2.852444e-02 2.838591e-03
## 1086 -1.861971e-02 1.213704e-02 -4.876267e-03
## 1087 1.771570e-02 3.038340e-02 4.558522e-03
## 1088 2.886545e-02 -2.034584e-02 -6.725000e-03
## 1089 -4.207633e-02 -3.963121e-03 1.204886e-03
## 1090 1.644459e-02 -2.436464e-02 2.266108e-03
## 1091 -1.104749e-02 2.690888e-02 3.827466e-03
## 1092 -8.479551e-03 1.336273e-02 5.798837e-03
## 1095 -2.593135e-02 -2.845675e-02 -1.338351e-04
## 1096 2.847085e-02 -2.855792e-02 1.478160e-03
## 1097 -2.600901e-02 1.394478e-02 -8.933634e-03
## 1098 2.017622e-03 -1.765137e-02 -2.738638e-02
## 1099 -3.273574e-02 -1.963274e-02 -4.903678e-04
## 1100 -3.152378e-02 3.416876e-02 5.105740e-02
## 1102 -1.976529e-02 2.764700e-02 9.783131e-04
## 1103 -2.402271e-02 1.707218e-02 -7.888522e-03
## 1105 -1.930435e-02 -3.583608e-03 -7.051218e-02
## 1106 2.641314e-02 1.480875e-02 -1.401009e-03
## 1107 -2.043426e-02 9.979789e-03 -5.348448e-03
## 1108 9.467744e-03 7.935980e-03 8.810366e-04
## 1109 2.498428e-02 2.897254e-02 6.711330e-03

```

```

## 1110 3.251555e-02 2.593276e-02 5.161226e-03
## 1111 7.798472e-03 7.430766e-03 6.692349e-03
## 1114 2.012261e-02 3.281271e-02 3.343132e-03
## 1115 -2.517793e-02 -1.617146e-02 -2.598938e-03
## 1116 9.368314e-03 3.437894e-02 -1.383952e-03
## 1117 3.212484e-03 3.672453e-02 1.640751e-02
## 1118 5.787913e-02 -1.925609e-02 5.520766e-04
## 1119 -2.302040e-02 -2.408678e-02 6.317442e-03
## 1121 2.962202e-02 -2.576390e-02 4.538959e-03
## 1122 -2.364598e-02 1.453488e-02 8.711508e-03
## 1124 -2.550413e-02 4.799379e-03 3.167937e-03
## 1125 1.854719e-02 -2.530644e-02 4.375580e-03
## 1126 8.034601e-03 -2.729863e-02 -3.202553e-03
## 1127 7.204268e-03 3.870486e-02 1.513613e-04
## 1128 -9.152879e-03 2.826022e-02 1.536246e-03
## 1129 -4.405602e-02 2.599967e-02 2.800457e-03
## 1130 1.026576e-02 1.516293e-03 7.018842e-04
## 1133 -9.867363e-04 1.677925e-02 6.052857e-03
## 1134 -2.083527e-02 -9.590296e-03 4.499334e-03
## 1135 2.662396e-02 -2.352423e-02 -5.511807e-03
## 1136 -1.326126e-02 1.804647e-02 -1.279008e-03
## 1137 7.284758e-03 1.409300e-02 -1.967571e-02
## 1138 1.571375e-02 -9.400811e-03 1.226687e-02
## 1140 2.770864e-02 -3.862728e-02 4.800711e-05
## 1141 -1.776227e-02 -2.755583e-02 -3.322175e-03
## 1143 3.295416e-03 -3.672323e-03 3.119777e-03
## 1144 -2.179551e-02 -4.330267e-03 2.983144e-03
## 1145 -6.670746e-03 -6.991876e-03 -2.897037e-03
## 1146 1.752982e-02 6.376409e-03 -2.286916e-02
## 1147 2.784375e-02 3.499367e-02 3.231800e-03
## 1148 -2.217849e-02 8.249863e-04 1.320119e-03
## 1149 1.382563e-03 5.569129e-03 9.724376e-03
## 1152 -1.551361e-02 1.382728e-02 2.629512e-03
## 1153 2.348119e-02 2.093001e-02 4.195659e-03
## 1154 -2.262667e-02 3.005264e-02 -7.297187e-03
## 1155 1.351179e-02 -2.775253e-02 -2.389128e-03
## 1156 -2.009519e-02 2.387246e-02 -3.508462e-03
## 1157 2.239179e-02 -2.460571e-02 3.884026e-04
## 1159 4.143809e-02 2.264483e-02 -5.045288e-03
## 1160 -1.937613e-02 3.677572e-03 -3.340472e-03
## 1162 3.999942e-02 -2.469642e-02 8.134279e-03
## 1163 -2.221986e-02 2.489116e-02 1.035347e-03
## 1164 2.091983e-02 -3.770980e-02 4.536885e-04
## 1165 6.969199e-03 3.638252e-02 -9.530814e-03
## 1166 -2.652638e-02 4.373495e-04 -2.136552e-03
## 1167 1.433412e-02 2.410832e-02 3.243852e-03
## 1168 -3.295122e-02 7.141546e-03 -3.939653e-03
## 1171 1.641055e-02 5.671261e-03 6.109484e-03
## 1172 2.441545e-02 4.383641e-03 1.823587e-03
## 1173 -1.953378e-02 7.238762e-03 6.811378e-03
## 1174 -2.372631e-02 -3.371926e-02 -1.052495e-02
## 1175 -1.997102e-02 2.852638e-02 -1.388001e-03
## 1176 -4.490272e-02 -3.291668e-02 -3.715992e-03
## 1178 1.492294e-02 3.487521e-02 -6.701759e-03

```

```

## 1179 -2.231556e-02 -4.427090e-02  1.414442e-02
## 1181 -3.257412e-02 -1.906711e-02 -8.306121e-04
## 1182  1.273229e-02  4.471892e-03  3.615610e-03
## 1183 -1.300015e-02 -1.685855e-02  2.415894e-03
## 1184  2.692528e-02  1.763953e-02 -1.556084e-03
## 1185  2.305594e-02  9.509992e-06  5.034062e-03
## 1186 -2.516863e-02 -1.216072e-02  1.465868e-01
## 1187 -2.203605e-02  3.072395e-02  1.090776e-04
## 1190 -7.212944e-03 -2.169659e-02 -7.242989e-03
## 1191  1.455302e-02  2.205140e-02  4.359580e-03
## 1192 -2.353910e-02 -1.122886e-02 -3.287058e-04
## 1193  1.951064e-02 -2.371495e-02  3.673534e-03
## 1194  3.337158e-02  1.329421e-02 -5.834633e-03
## 1195  2.920469e-02  1.614966e-02 -3.382658e-03
## 1197 -2.396692e-02 -1.072122e-02 -4.767252e-03
## 1198 -2.587706e-02  1.485901e-02  5.295920e-02
## 1200 -4.301591e-03  4.894373e-03  1.025608e-03
## 1201 -2.367173e-02 -5.989813e-03 -3.316150e-02
## 1202  1.959881e-02  2.704700e-02 -8.044834e-03
## 1203  2.685793e-02 -1.996432e-02  1.318461e-03
## 1204 -1.427391e-02  1.603978e-02  5.990030e-03
## 1205 -1.850046e-02  9.125900e-03  2.560369e-03
## 1206 -1.252447e-02  1.373958e-02  3.360162e-03
## 1209  3.102264e-02 -4.121605e-03  8.243106e-03
## 1210  2.883118e-02  7.092153e-05 -4.606741e-03
## 1211 -2.582226e-02 -2.369695e-02  4.311480e-04
## 1212 -1.962240e-02 -3.307807e-02 -1.676592e-04
## 1213 -3.745881e-03 -2.663085e-02  2.851229e-03
## 1214  2.672998e-02  3.011646e-03  4.559714e-03
## 1216 -1.508632e-02  3.159557e-03  8.374166e-04
## 1217  8.014687e-03 -1.561647e-02  1.640007e-03
## 1219  2.025557e-02  2.378155e-02 -4.797043e-03
## 1220 -2.301789e-02  3.179249e-03 -3.592038e-03
## 1221  1.661156e-02 -7.278443e-04 -1.000532e-03
## 1222 -1.975856e-02  3.738231e-02 -1.667264e-02
## 1223  2.438270e-02 -4.316751e-02 -4.908538e-02
## 1224  2.162448e-02 -8.120065e-03  1.399251e-04
## 1225  3.006991e-02 -2.655591e-02  2.471634e-03
## 1228 -2.614538e-02  2.203554e-02  8.771620e-03
## 1229  1.746634e-02  2.877734e-02  5.437717e-03
## 1230 -2.170582e-02 -3.811248e-02  4.180779e-03
## 1231  2.390941e-02  6.618221e-03  4.109869e-03
## 1232 -3.437059e-02 -3.063985e-02 -1.657946e-02
## 1233  1.620147e-02 -2.614631e-02 -1.609742e-03
## 1235 -2.179571e-02 -4.867347e-02 -3.533938e-04
## 1236 -2.325928e-02 -2.424058e-02 -6.712263e-03
## 1238  2.438701e-02  2.124842e-03 -7.092076e-03
## 1239  2.210617e-02 -3.240488e-02 -2.449152e-03
## 1240  1.992746e-02 -2.721479e-02 -1.564787e-02
## 1241  1.926495e-02  4.827345e-03 -3.680352e-03
## 1242  4.209019e-03  8.546118e-03  4.674279e-03
## 1243 -2.984579e-02  2.759893e-02 -4.521052e-03
## 1244 -1.792552e-02  9.063857e-03  4.446612e-03
## 1247 -2.222896e-02  3.480541e-02 -3.487107e-03

```

```

## 1248 2.606163e-02 -3.697095e-02 3.505470e-03
## 1249 -2.286399e-02 4.015721e-02 -1.943586e-03
## 1250 -2.750356e-02 1.719850e-02 -6.811205e-03
## 1251 1.507764e-02 1.469079e-02 3.620734e-03
## 1252 1.069251e-02 1.610451e-02 -8.308299e-03
## 1254 2.369969e-02 1.106801e-02 1.284927e-03
## 1255 1.821408e-02 -2.605116e-03 2.875045e-03
## 1257 2.062154e-02 2.754798e-02 -1.131483e-02
## 1258 -1.946685e-02 3.406650e-02 5.401674e-03
## 1259 3.299741e-02 -1.844361e-02 -7.093423e-02
## 1260 -9.742209e-03 -2.255688e-02 -5.235650e-03
## 1261 -2.053138e-02 1.057103e-02 2.550519e-03
## 1262 -2.349475e-02 3.011785e-02 -4.476545e-03
## 1263 1.421654e-02 -5.150203e-03 8.327600e-03
## 1266 -1.911469e-02 7.402245e-03 -3.714106e-03
## 1267 7.699664e-07 -2.410933e-03 1.416464e-03
## 1268 -1.000297e-02 -2.706255e-02 3.891794e-03
## 1269 -3.533839e-03 -1.856035e-02 -3.814772e-03
## 1270 2.820778e-02 -3.757978e-02 -1.976897e-03
## 1271 -6.504421e-02 -2.992715e-02 6.161067e-02
## 1273 -1.839302e-02 2.249463e-02 4.762087e-04
## 1274 2.992272e-02 2.318994e-02 6.729795e-03
## 1276 1.774619e-04 -2.652049e-02 -9.734686e-03
## 1277 -6.578049e-02 2.058512e-02 2.546703e-03
## 1278 2.693529e-02 1.140941e-02 5.154821e-03
## 1279 2.127523e-02 -2.870560e-02 -4.833384e-03
## 1280 -2.139635e-02 -3.223704e-02 -4.500415e-03
## 1281 -2.512580e-02 -2.619027e-02 -8.299523e-03
## 1282 8.921155e-03 3.258705e-02 -4.833673e-03
## 1285 2.962087e-02 -4.050289e-03 9.268224e-02
## 1286 -2.189679e-02 2.956264e-02 5.796054e-03
## 1287 1.633411e-02 -3.665994e-02 -4.760802e-03
## 1288 -2.072824e-02 3.076010e-02 -3.734799e-03
## 1289 1.632717e-02 1.181819e-02 6.104659e-05
## 1290 -2.006660e-02 6.053113e-03 -2.153604e-03
## 1292 2.624739e-02 1.721493e-02 4.471538e-03
## 1293 1.431740e-02 -7.178843e-03 -1.288293e-03
## 1295 2.142017e-02 1.147556e-02 2.634955e-03
## 1296 -3.766628e-02 8.470127e-03 -6.036748e-03
## 1297 -2.261555e-02 -2.080265e-02 1.937091e-01
## 1298 2.213031e-02 -2.334982e-02 2.150218e-03
## 1299 -4.336281e-02 -2.347339e-02 -3.694752e-03
## 1300 -2.401911e-02 4.704853e-02 -1.199449e-02
## 1301 2.763925e-02 2.768938e-02 -5.364385e-03
## 1304 -8.202415e-03 -3.785890e-02 2.231504e-03
## 1305 6.520998e-03 6.474759e-03 8.385760e-03
## 1306 9.691868e-03 2.644665e-02 5.793262e-03
## 1307 9.549679e-03 -2.056218e-02 -9.682017e-03
## 1308 2.907447e-02 1.431725e-02 3.083896e-03
## 1309 -2.254562e-02 -5.136511e-02 -5.359771e-03
## 1311 2.035665e-02 -1.142851e-02 3.673636e-03
## 1312 2.796185e-02 -2.703713e-02 3.261669e-04
## 1314 2.643831e-02 2.333944e-02 1.284628e-04
## 1315 1.817246e-02 1.376198e-02 -3.133947e-03

```

```

## 1316 -1.086158e-02 1.689500e-02 3.255117e-03
## 1317 1.819974e-02 -3.070916e-03 -1.151350e-03
## 1318 -1.869862e-02 -3.182344e-02 -6.710540e-04
## 1319 2.740149e-02 -3.039563e-02 3.473338e-03
## 1320 2.325953e-04 3.062263e-02 -7.031095e-03
## 1323 2.697204e-02 2.152455e-02 2.025899e-03
## 1324 2.254679e-02 -1.707408e-02 4.871729e-03
## 1325 1.812773e-02 -4.078244e-02 5.064362e-03
## 1326 1.023531e-02 5.854482e-03 -3.781863e-02
## 1327 -2.110535e-02 -3.167945e-03 7.620898e-04
## 1328 -6.981368e-02 -4.833436e-02 -1.185664e-02
## 1330 -2.467239e-02 1.486266e-02 -3.168565e-03
## 1331 2.437680e-02 -2.461158e-02 -5.506548e-03
## 1333 -2.352851e-02 -3.884102e-02 7.769801e-04
## 1334 -2.411628e-02 3.577234e-02 5.473775e-03
## 1335 5.026161e-02 -1.884283e-02 2.167324e-03
## 1336 2.182399e-02 3.529863e-02 -1.800404e-03
## 1337 1.457103e-02 3.898407e-02 3.512686e-03
## 1338 1.776572e-02 -2.552678e-02 2.641076e-03
## 1339 2.644794e-02 2.387528e-02 -2.394731e-03
## 1342 2.060085e-02 4.010017e-03 2.009507e-03
## 1343 -3.026614e-02 3.986833e-02 5.317796e-03
## 1344 1.140211e-02 -1.704620e-02 7.401367e-03
## 1345 -1.735024e-03 -2.977626e-02 7.852933e-03
## 1346 1.922251e-02 -3.814723e-02 5.356758e-03
## 1347 -2.539265e-02 -1.132707e-02 4.651473e-03
## 1349 -1.323334e-02 -1.998311e-02 4.229110e-03
## 1350 2.446921e-03 -2.400936e-02 -4.390600e-03
## 1352 2.388637e-02 -3.730193e-03 2.569582e-03
## 1353 2.877431e-02 -3.006524e-02 -2.944068e-02
## 1354 -2.728075e-02 3.837760e-02 -4.596603e-03
## 1355 -2.161516e-02 1.283502e-02 1.194835e-04
## 1356 -1.884584e-02 -7.608087e-03 -6.683827e-02
## 1357 -1.176535e-02 -1.693398e-02 -3.913408e-03
## 1358 -1.986772e-02 -2.637858e-02 2.434004e-03
## 1361 -2.367722e-02 2.378146e-03 -4.971720e-02
## 1362 2.647280e-02 -6.551896e-04 -7.204954e-03
## 1363 -1.949590e-02 2.316105e-02 -2.191185e-03
## 1364 4.104997e-02 -2.310673e-02 1.856298e-03
## 1365 1.334339e-02 5.680936e-03 -7.575482e-03
## 1366 -3.262283e-02 7.931101e-03 5.666531e-03
## 1368 3.576757e-02 3.399985e-02 -1.017951e-03
## 1369 -2.490429e-02 -2.367299e-03 9.165326e-04
## 1371 2.390690e-02 -2.760484e-02 5.309096e-03
## 1372 -1.159841e-02 4.081390e-02 2.303427e-04
## 1373 1.571198e-02 -3.411177e-02 4.815473e-03
## 1374 -2.236885e-02 3.031903e-02 -2.964349e-03
## 1375 -9.073768e-04 4.952412e-02 -1.923384e-04
## 1376 -3.034673e-03 -1.304321e-02 -4.677331e-03
## 1377 -7.764064e-03 9.198708e-03 -2.522029e-02
## 1380 2.791089e-02 2.001881e-03 6.524203e-04
## 1381 -2.145542e-02 3.103494e-03 7.628902e-04
## 1382 -2.564852e-02 -2.230235e-03 -8.273881e-05
## 1383 1.423939e-02 -1.397729e-02 -3.392916e-03

```

```

## 1384 2.853682e-02 1.053362e-02 -2.327035e-02
## 1385 1.177229e-02 1.695936e-02 -7.650428e-04
## 1387 5.266042e-03 -3.406131e-02 5.812237e-03
## 1388 2.957201e-02 4.325192e-02 -1.952522e-02
## 1390 8.495349e-03 4.543894e-02 4.185529e-03
## 1391 2.024476e-02 2.048950e-02 -6.051257e-02
## 1392 -1.403282e-02 -1.495206e-02 -2.027908e-03
## 1393 -3.904940e-02 4.292241e-02 5.262835e-03
## 1394 -3.927958e-02 -1.003471e-02 -1.164927e-03
## 1395 -2.485441e-02 -2.005487e-03 -5.401465e-03
## 1396 4.444674e-02 -1.868317e-02 -6.236977e-03
## 1399 1.289731e-02 3.330513e-02 4.035129e-03
## 1400 -3.761212e-04 -3.331843e-02 5.465823e-04
## 1401 2.317711e-02 -3.306065e-02 -3.174564e-02
## 1402 -2.466642e-02 3.529025e-02 4.468552e-03
## 1403 -3.573854e-02 2.381683e-02 -7.760709e-02
## 1404 1.096395e-02 2.525491e-02 -3.126616e-03
## 1406 -2.015220e-02 -2.706338e-02 -2.744284e-02
## 1407 5.900784e-03 2.524258e-02 -4.055519e-03
## 1409 -2.584449e-02 -1.679830e-02 4.307694e-03
## 1410 -2.607283e-02 -3.097101e-02 -1.193244e-02
## 1411 -1.473070e-02 -5.094136e-03 3.956461e-03
## 1412 1.417113e-02 -2.672221e-02 7.917497e-04
## 1413 2.272651e-02 -2.291125e-02 -2.224071e-04
## 1414 4.456712e-02 -3.583041e-02 -1.069360e-03
## 1415 1.6555606e-02 -2.430461e-02 -4.723631e-04
## 1418 5.366497e-02 1.301538e-02 1.014625e-02
## 1419 -1.959207e-02 -3.286091e-02 2.013609e-03
## 1420 -2.173827e-02 -1.030476e-02 3.620542e-03
## 1421 2.086824e-02 8.193158e-03 7.107111e-03
## 1422 -5.740537e-02 -2.072867e-02 8.906420e-04
## 1423 -3.057880e-02 1.863746e-02 1.862234e-03
## 1425 1.526106e-02 2.567864e-02 -3.704826e-02
## 1426 3.179272e-02 2.470052e-02 -3.218652e-03
## 1428 1.954634e-02 2.082258e-02 -2.997945e-03
## 1429 1.894239e-02 2.008435e-02 5.918713e-03
## 1430 -1.237049e-02 -4.868369e-03 1.990755e-03
## 1431 9.188087e-03 4.865723e-03 2.098652e-03
## 1432 5.295775e-02 3.155966e-03 3.194067e-03
## 1433 -1.436155e-02 1.256292e-02 1.658759e-03
## 1434 2.902937e-02 -2.674727e-02 6.840739e-02
## 1437 2.309809e-02 -2.969970e-03 -8.837676e-03
## 1438 2.727444e-02 6.996838e-03 1.900870e-03
## 1439 2.147144e-02 3.830713e-02 3.366407e-03
## 1440 -2.853005e-02 6.277779e-03 2.468095e-03
## 1441 4.321238e-02 5.200815e-03 -2.012765e-03
## 1442 2.460267e-02 -2.549394e-02 -4.290137e-03
## 1444 1.371586e-02 1.422768e-02 -4.010453e-03
## 1445 -1.006578e-02 9.598107e-03 -1.513158e-02
## 1447 -2.747680e-02 2.772139e-02 6.995829e-04
## 1448 -2.284418e-02 3.942051e-02 6.253996e-03
## 1449 8.454628e-03 -2.590148e-02 -8.203509e-03
## 1450 4.153465e-02 4.482431e-02 -6.035576e-03
## 1451 6.909529e-03 6.912292e-03 8.550721e-04

```

```

## 1452 -3.353814e-02 -2.342042e-02 -7.771956e-03
## 1453 -2.229951e-02 2.218287e-02 3.247333e-03
## 1456 9.309153e-03 4.370284e-02 4.811355e-03
## 1457 2.301651e-02 -2.557784e-03 -7.232778e-04
## 1458 2.612131e-02 6.366103e-03 1.879923e-03
## 1459 1.185362e-02 2.488361e-02 -2.594431e-03
## 1460 3.074802e-02 4.215826e-02 8.329613e-03
## 1461 1.304951e-02 1.392556e-02 2.595017e-03
## 1463 -1.380303e-02 1.739254e-02 -2.430100e-02
## 1464 -5.578717e-02 7.556605e-03 2.529816e-02
## 1466 2.071613e-02 1.465571e-02 -2.523193e-03
## 1467 -2.352848e-02 1.555747e-04 -9.868334e-03
## 1468 -1.952911e-02 -4.465715e-02 1.736646e-02
## 1469 -2.063606e-02 1.677889e-02 5.396369e-03
## 1470 1.351523e-02 2.319159e-02 2.060578e-02
## 1471 -1.510151e-02 -1.718924e-02 -9.935348e-03
## 1472 1.991149e-02 -2.961871e-02 3.737505e-03
## 1475 3.962563e-02 -2.471606e-02 -2.470438e-03
## 1476 -2.351492e-02 9.578233e-03 3.303534e-03
## 1477 1.366098e-02 8.766885e-03 4.205261e-05
## 1478 -2.079953e-02 4.022167e-02 4.756360e-03
## 1479 -2.129922e-02 2.066120e-02 5.218743e-03
## 1480 6.855740e-03 -2.843772e-02 2.578877e-03
## 1482 1.382735e-02 3.747855e-02 2.220057e-03
## 1483 1.975892e-02 -1.929342e-02 -1.045534e-03
## 1485 -1.781687e-02 -3.619452e-02 -5.024624e-02
## 1486 -1.973042e-02 1.046015e-02 -2.991734e-04
## 1487 -1.564722e-02 4.218687e-06 -2.629704e-02
## 1488 2.214158e-02 1.573020e-02 -6.601176e-03
## 1489 -8.422186e-02 -3.793340e-03 1.486877e-01
## 1490 2.224991e-02 1.184664e-02 -1.196032e-02
## 1491 -2.143858e-02 1.378501e-02 -2.979381e-03
## 1494 -1.107828e-02 -1.828809e-02 -1.134133e-02
## 1495 3.296733e-02 4.367613e-02 4.007640e-02
## 1496 -1.828337e-02 -2.804997e-02 3.646649e-03
## 1497 -2.096539e-02 2.182212e-02 5.083322e-03
## 1498 2.919695e-02 -2.457142e-02 -1.391780e-04
## 1499 2.575061e-02 -1.194136e-02 1.440261e-03
## 1501 -2.385785e-02 5.182346e-04 -5.018542e-03
## 1502 -2.619421e-02 1.917701e-02 3.188220e-03
## 1504 6.678937e-03 -2.184981e-02 6.331779e-03
## 1505 1.574941e-02 2.964900e-02 -1.808111e-02
## 1506 -1.489412e-02 1.532296e-02 -1.110876e-02
## 1507 2.705981e-02 -2.939521e-02 -3.768769e-03
## 1508 1.930607e-02 2.037520e-02 5.599779e-03
## 1509 1.791956e-02 1.450468e-02 -9.104241e-03
## 1510 -1.809385e-02 1.489966e-02 -1.414415e-03
## 1513 2.896007e-02 -3.774126e-02 2.818335e-03
## 1514 2.757381e-02 7.442512e-03 9.905907e-04
## 1515 -4.156462e-02 -1.377124e-02 2.396756e-03
## 1516 -2.511089e-02 3.800870e-02 -3.679151e-03
## 1517 2.722473e-02 -1.117822e-02 -1.576072e-02
## 1518 -1.922133e-02 -2.585447e-02 2.267741e-03
## 1520 -2.135329e-02 -3.081754e-02 2.412246e-03

```

```

## 1521  1.254356e-02 -3.269053e-02 -5.356810e-03
## 1523  1.683011e-03 -3.884597e-02  6.711407e-03
## 1524 -2.053883e-02 -2.485002e-02 -1.582815e-03
## 1525  2.410577e-02  9.151095e-03  4.199879e-03
## 1526 -4.484537e-03 -3.089755e-02  1.438240e-03
## 1527 -2.070517e-02 -2.545482e-02  9.300538e-03
## 1528 -1.493371e-02 -1.924605e-02 -2.735299e-03
## 1529  3.010444e-02  1.709496e-02 -3.193408e-02
## 1532  1.956585e-02  2.538483e-02  9.627728e-03
## 1533 -2.002985e-02  2.653531e-02 -3.635642e-02
## 1534  1.656898e-02  1.351351e-02  1.709500e-04
## 1535 -2.378548e-02 -7.773345e-04 -8.988335e-03
## 1536 -1.320991e-02  1.216222e-02  1.342713e-03
## 1537 -1.931254e-02 -6.489816e-03  5.488530e-03
## 1539  5.468668e-03  3.930867e-02  5.321503e-03
## 1540  8.451702e-03  1.382782e-02  5.373771e-03
## 1542  1.754645e-02  3.202130e-02  3.526548e-03
## 1543  1.231727e-02  1.748935e-02 -1.578835e-03
## 1544  2.104405e-02  3.571517e-02  4.164045e-03
## 1545 -1.953814e-02  4.279729e-02  8.711693e-04
## 1546  2.558947e-02  1.262507e-02  3.166222e-03
## 1547  2.474968e-02 -4.638264e-02  5.880628e-03
## 1548  2.680146e-02  3.673853e-02  3.082900e-03
## 1551 -1.979369e-02 -3.162257e-02  1.710702e-03
## 1552  5.457627e-04  1.257521e-02  4.177309e-02
## 1553  1.140632e-02  3.414736e-02 -6.460176e-02
## 1554 -2.318975e-02 -2.728818e-02  5.429112e-03
## 1555 -8.590360e-02 -4.034186e-02 -1.300803e-02
## 1556 -6.505276e-03  5.284375e-04 -2.119856e-04
## 1558 -4.013695e-04  3.906025e-02 -4.244678e-02
## 1559 -2.217761e-02  3.400041e-02  1.036298e-03
## 1561  2.416731e-02  2.081872e-02  5.008491e-03
## 1562  2.788151e-02  3.095714e-02  6.622897e-03
## 1563 -1.802794e-02 -1.339346e-02 -3.380417e-02
## 1564 -7.778863e-03 -7.812497e-04  5.174655e-04
## 1565  8.929253e-03 -6.499760e-03 -4.038691e-02
## 1566 -1.109059e-02  3.553626e-02  5.876707e-03
## 1567  2.914713e-02  2.337214e-02  1.662959e-03
## 1570 -2.124043e-02  2.270360e-02 -2.025117e-03
## 1571  2.462009e-02 -2.482986e-03  1.737206e-03
## 1572 -1.640340e-03  2.858635e-02 -8.783999e-03
## 1573  2.048164e-02  8.768184e-04 -8.447659e-02
## 1574  2.740844e-02  2.380621e-02  6.457742e-04
## 1575 -5.840340e-02  5.725525e-03 -2.956170e-03
## 1577 -1.740661e-02 -4.461268e-02  1.546985e-03
## 1578  1.359978e-02  2.103288e-02 -3.346678e-03
## 1580 -1.743294e-02 -2.787977e-02  2.124287e-03
## 1581  1.837805e-02  9.973550e-03 -2.893521e-03
## 1582 -4.130316e-02  1.517831e-02 -6.882252e-03
## 1583 -1.476280e-02  1.513462e-02  6.275961e-04
## 1584  2.617670e-02  2.185647e-02 -1.998871e-03
## 1585  2.268651e-02  3.212728e-02  1.110961e-02
## 1586 -2.289311e-02  3.099390e-02 -2.724697e-03
## 1589 -1.204049e-02  1.352948e-02  2.372505e-03

```

```

## 1590  2.433407e-02 -2.573719e-02 -5.633489e-04
## 1591  4.339318e-02 -2.560301e-03  4.133718e-03
## 1592  2.860323e-02  3.500676e-02 -1.502472e-03
## 1593 -2.219863e-02  4.430372e-03  5.828139e-03
## 1594  3.691207e-02  1.834138e-02 -1.109902e-02
## 1596  2.779314e-02 -3.190571e-02 -7.163307e-03
## 1597  2.389186e-02 -1.323731e-03  2.440457e-03
## 1599  2.959575e-02 -2.139385e-02  4.365674e-03
## 1600  2.393579e-02 -2.466699e-02 -5.013765e-03
## 1601  1.805247e-02  2.223678e-02 -4.681668e-03
## 1602 -5.977865e-03 -1.578135e-02  5.138714e-03
## 1603 -2.627801e-02 -1.561181e-02  5.888658e-03
## 1604 -1.941877e-02  4.044331e-02  3.333680e-03
## 1605  2.092429e-02  3.890794e-02  8.297582e-03
## 1608 -2.132656e-02 -4.950624e-02  7.304527e-04
## 1609 -2.581517e-02  1.008485e-02 -2.871460e-03
## 1610 -4.150184e-02  3.115642e-02 -4.084016e-02
## 1611 -2.198935e-02 -3.067785e-02 -5.161686e-03
## 1612 -2.472191e-02 -3.206757e-02  1.102336e-03
## 1613 -9.502927e-03  7.488049e-03 -1.765179e-02
## 1615  1.767882e-02  2.218416e-02  4.751535e-03
## 1616  1.864156e-02  3.123710e-02 -7.293277e-04
## 1618  2.710421e-02 -3.139587e-02  1.588716e-03
## 1619 -1.694414e-02  3.195958e-02  7.438380e-04
## 1620  2.541234e-02 -2.444716e-02 -5.982778e-03
## 1621 -2.435137e-02 -2.521749e-02 -2.956495e-02
## 1622 -2.402643e-02 -1.888074e-02  2.023741e-04
## 1623  1.498728e-02 -1.507432e-02  8.520795e-03
## 1624 -2.037202e-02 -3.607601e-02 -5.036006e-03
## 1627 -2.478621e-02  1.918388e-03  1.968339e-03
## 1628 -1.714547e-02 -1.908782e-02 -5.372760e-03
## 1629  1.962115e-02 -2.480221e-02  2.468263e-03
## 1630 -2.561037e-02  2.065474e-02 -7.285269e-03
## 1631 -1.885559e-02 -2.355236e-02  1.298762e-03
## 1632  1.977901e-02 -2.359285e-02  2.694623e-03
## 1634  2.461547e-02  4.129039e-03 -1.294139e-02
## 1635  3.005067e-02  1.017259e-02 -1.567591e-02
## 1637 -2.469796e-02 -4.545759e-02  9.302979e-04
## 1638  2.163312e-02  3.570353e-03 -2.263026e-02
## 1639 -1.098381e-02 -8.777012e-04  1.329426e-03
## 1640  1.097302e-02  2.601067e-02 -1.543568e-04
## 1641  2.659528e-02 -3.831714e-02  1.906699e-03
## 1642 -2.980588e-02 -3.209787e-02 -1.345570e-02
## 1643  4.905989e-02 -9.461784e-04  3.565026e-03
## 1646  4.487831e-03 -1.350691e-02 -1.089113e-03
## 1647  2.383244e-02 -2.557271e-03  1.533228e-03
## 1648  1.157938e-02 -3.472522e-03  2.685488e-04
## 1649  8.708093e-03 -3.607236e-02 -4.903287e-03
## 1650  1.912801e-02 -3.188546e-02 -3.721199e-03
## 1651  2.559716e-02 -3.991011e-02 -2.525350e-03
## 1653  2.672878e-02  2.430091e-03 -7.444273e-03
## 1654  1.183932e-02  1.695679e-02  1.012091e-02
## 1656  3.217030e-02 -3.250795e-02  2.136616e-03
## 1657 -1.356908e-02  4.477310e-02 -9.016180e-04

```

```

## 1658 -2.080709e-02 3.714931e-02 -1.420923e-03
## 1659 -1.797348e-02 2.815014e-02 6.891780e-03
## 1660 4.796790e-02 -2.595585e-02 2.306440e-02
## 1661 2.582982e-02 1.895047e-02 2.137086e-03
## 1662 9.921254e-03 1.846170e-02 6.951289e-03
## 1665 2.126980e-02 -3.542337e-02 5.705589e-02
## 1666 -1.472048e-02 2.018962e-03 -1.590020e-02
## 1667 1.750456e-02 7.002673e-04 -8.571740e-03
## 1668 -7.441209e-03 -1.123607e-02 9.796408e-03
## 1669 2.728524e-02 -1.490616e-02 -3.511133e-03
## 1670 -2.229197e-02 1.731726e-02 5.434923e-03
## 1672 -2.095011e-02 1.471473e-02 3.934393e-03
## 1673 -2.853074e-02 1.901818e-02 -7.114696e-03
## 1675 2.030401e-02 -3.126657e-02 -1.965282e-03
## 1676 2.385509e-02 -2.212273e-03 -3.018544e-02
## 1677 1.675976e-02 2.684096e-02 -1.408913e-02
## 1678 -1.470515e-02 2.535854e-02 5.665727e-04
## 1679 -2.138575e-02 -2.383786e-02 8.421109e-04
## 1680 -2.113018e-02 1.313540e-02 -3.025925e-03
## 1681 1.620968e-02 -9.818345e-04 -9.467451e-03
## 1684 -1.847961e-02 4.785179e-03 6.222640e-03
## 1685 1.999394e-02 -2.534876e-02 -4.174962e-03
## 1686 2.124974e-02 -2.896145e-03 9.733155e-03
## 1687 -1.737468e-02 -8.140249e-03 4.415722e-03
## 1688 5.498817e-03 -3.376736e-02 7.713766e-03
## 1689 1.143585e-02 1.039852e-05 -8.369785e-03
## 1691 -2.263041e-02 -3.457419e-02 4.016444e-03
## 1692 -2.266320e-02 2.119243e-02 1.561896e-03
## 1694 -2.114006e-02 2.693497e-02 8.897506e-03
## 1695 1.937551e-02 -2.992654e-02 -6.788593e-03
## 1696 2.089010e-02 2.898840e-02 8.324334e-04
## 1697 -1.125017e-02 -2.825823e-02 -3.535258e-04
## 1698 -2.902018e-02 1.394312e-02 -7.608994e-03
## 1699 1.692725e-02 2.933227e-02 1.483862e-03
## 1700 2.416889e-02 2.290747e-02 1.182887e-02
## 1703 2.922835e-02 -4.566377e-02 5.304157e-03
## 1704 -2.456826e-02 -3.729629e-02 1.192464e-03
## 1705 1.908517e-02 1.872139e-02 4.881872e-03
## 1706 6.271168e-03 -4.499136e-02 9.533116e-04
## 1707 3.259383e-02 -4.245413e-02 3.712424e-02
## 1708 -1.881570e-02 9.562782e-03 1.872672e-03
## 1710 -2.123129e-02 4.551196e-04 1.870202e-01
## 1711 -5.456802e-02 7.828109e-03 2.433561e-02
## 1713 -1.835635e-02 1.843029e-02 1.035894e-03
## 1714 -4.381867e-02 1.472915e-02 1.630088e-03
## 1715 -2.147155e-02 -2.870136e-02 1.287518e-03
## 1716 -2.379718e-02 -3.608068e-02 6.064765e-03
## 1717 -1.995216e-02 2.953245e-02 3.037022e-03
## 1718 2.529992e-02 2.126976e-02 2.149960e-03
## 1719 3.392358e-02 -3.072985e-02 4.132688e-03
## 1722 2.022623e-02 2.431470e-02 1.402656e-03
## 1723 -1.959511e-02 -4.963576e-03 -3.758499e-03
## 1724 -1.351861e-02 -2.172517e-02 3.711687e-03
## 1725 1.354294e-02 3.132871e-03 4.500837e-03

```

```

## 1726 2.870893e-02 -2.686473e-02 9.352502e-05
## 1727 -4.285475e-02 2.132606e-02 1.511467e-03
## 1729 -1.859314e-02 2.154033e-02 4.698288e-03
## 1730 -2.120756e-02 2.224474e-02 4.323776e-03
## 1732 1.137648e-02 -2.663128e-02 1.303657e-03
## 1733 9.464213e-04 -3.657668e-02 -2.861495e-03
## 1734 1.464633e-02 -1.245657e-02 4.719997e-03
## 1735 -1.316731e-02 1.144323e-02 -4.002250e-03
## 1736 -2.057085e-02 2.165286e-02 2.042232e-03
## 1737 4.096683e-02 -4.151636e-02 1.808081e-03
## 1738 2.842297e-02 2.941977e-02 -4.754824e-02
## 1741 -2.328518e-02 2.469599e-02 -1.547001e-02
## 1742 2.220121e-02 1.225107e-02 2.532332e-01
## 1743 -1.302583e-02 2.758861e-02 3.310090e-03
## 1744 -1.860119e-02 4.465141e-02 5.793310e-03
## 1745 2.597655e-02 -3.138528e-02 -6.769629e-04
## 1746 2.853455e-02 2.456774e-02 -8.628747e-03
## 1748 2.642285e-02 1.509747e-02 1.528494e-03
## 1749 7.750216e-03 -1.569361e-02 8.370219e-04
## 1751 -2.098022e-02 -3.780002e-02 -4.196931e-02
## 1752 -2.412337e-02 -2.619054e-02 -1.617457e-03
## 1753 -1.905347e-02 1.742243e-02 -3.900628e-04
## 1754 1.224171e-02 -1.288826e-02 -9.725280e-03
## 1755 -2.191608e-02 -1.460519e-02 -1.577783e-03
## 1756 -2.159933e-02 1.934898e-02 1.524859e-03
## 1757 2.487829e-02 -8.140115e-03 5.240424e-03
## 1760 -2.213770e-02 1.304137e-02 6.460824e-04
## 1761 1.624157e-02 4.424690e-02 -7.699995e-04
## 1762 2.805214e-02 3.552817e-02 5.705459e-04
## 1763 -2.704969e-02 1.628980e-03 3.540820e-02
## 1764 2.952474e-02 -4.082434e-02 1.194984e-03
## 1765 -1.738586e-02 1.933172e-02 6.009855e-03
## 1767 2.550227e-02 -3.224718e-02 6.883773e-04
## 1768 -2.277412e-02 4.430377e-03 -6.705779e-02
## 1770 7.747266e-03 -1.841600e-02 -8.501273e-05
## 1771 4.742723e-02 1.296189e-02 2.674124e-03
## 1772 3.081669e-02 2.710770e-02 7.307510e-03
## 1773 2.667917e-02 -6.570862e-04 9.997404e-03
## 1774 5.183495e-03 8.543692e-03 7.904825e-04
## 1775 -2.814932e-02 1.345140e-02 -9.711271e-03
## 1776 -1.470244e-02 1.153540e-02 1.056539e-03
## 1779 9.053435e-03 -1.599385e-02 -1.931222e-03
## 1780 -2.034692e-02 -1.539482e-02 -1.829979e-02
## 1781 -1.481565e-02 -3.840514e-02 -7.395610e-02
## 1782 3.071654e-02 2.223652e-02 7.225339e-03
## 1783 1.130683e-02 1.004991e-02 -3.332320e-03
## 1784 -5.551415e-02 5.322170e-05 -5.128016e-02
## 1786 2.519983e-02 -4.686634e-02 -6.624197e-03
## 1787 -2.790257e-03 4.723381e-02 -2.549841e-04
## 1789 2.727101e-02 -2.354026e-02 8.559073e-04
## 1790 2.861613e-02 1.790937e-02 4.471032e-03
## 1791 -3.214679e-02 -9.643343e-04 4.645025e-03
## 1792 -1.997609e-02 2.302671e-02 4.571285e-03
## 1793 -4.455486e-02 1.762648e-02 1.092776e-01

```

```

## 1794 -2.791049e-02 -2.585222e-02 -1.119580e-03
## 1795 -2.294633e-02  1.646321e-02 -4.617852e-03
## 1798 -1.131802e-02 -3.704216e-02  2.945131e-03
## 1799 -2.138381e-02 -3.941958e-03  2.688863e-03
## 1800 -2.249110e-02 -2.884121e-02 -1.028305e-01
## 1801  1.948032e-02 -2.519601e-02  1.448067e-03
## 1802 -1.201192e-02  9.536834e-04 -4.099893e-03
## 1803 -2.421337e-02  2.100659e-02 -9.835548e-03
## 1805 -2.912195e-02  2.097368e-02  6.133494e-03
## 1806 -1.994652e-02  2.883106e-02  3.637260e-03
## 1808 -3.766812e-03 -2.269402e-03 -2.258645e-03
## 1809  1.742040e-02  2.124169e-02 -1.818668e-04
## 1810 -4.090805e-02  2.031760e-02  3.950095e-02
## 1811 -2.114995e-02  2.132589e-02  7.320567e-03
## 1812 -1.478324e-02 -3.999315e-02 -9.289218e-03
## 1813  1.472100e-02  2.109967e-02 -1.080150e-02
## 1814 -2.786254e-02 -1.220178e-03 -1.010095e-02
## 1817  2.988742e-02  3.203923e-02 -8.720228e-04
## 1818 -2.209673e-02  2.464142e-02  2.943358e-03
## 1819  1.720758e-02 -2.111592e-02  5.385420e-03
## 1820 -1.836474e-02 -4.887303e-03  8.573260e-03
## 1821  4.984483e-02 -4.439522e-03 -2.658099e-03
## 1822 -2.694781e-02 -3.447452e-02 -1.062205e-02
## 1824 -2.221005e-02  8.452189e-04  1.455208e-02
## 1825  8.133300e-03 -2.003631e-02  1.705370e-03
## 1828  2.659350e-02 -4.004704e-02  8.683393e-04
## 1829  2.632302e-02 -2.069490e-02  4.588549e-03
## 1830 -2.205472e-02 -2.863260e-02  3.907531e-03
## 1831 -1.585990e-02  1.373213e-02 -2.496818e-02
## 1832 -1.365282e-02 -2.544318e-03 -2.535891e-03
## 1833 -2.168064e-02 -6.043293e-03  5.466918e-03
## 1834 -2.374677e-02 -4.470616e-02  2.018769e-03
## 1837  5.484262e-02  2.208425e-02  5.544846e-03
## 1838  1.976032e-02  3.955371e-02  9.805647e-04
## 1839 -2.507885e-02 -2.332811e-04 -4.528201e-03
## 1840  1.891240e-02 -1.698937e-02  3.637823e-04
## 1841 -2.171701e-02  2.429638e-02  3.935734e-03
## 1842  2.338499e-02  2.220273e-02  4.499783e-03
## 1844 -2.464078e-02  2.581338e-02 -2.593179e-03
## 1845  2.863138e-02 -2.336906e-03  1.062621e-02
## 1847  1.286820e-02  8.618394e-03 -4.437318e-03
## 1848 -3.590722e-03 -4.037449e-02  1.932771e-02
## 1849 -2.172117e-02  4.206788e-02  2.853071e-03
## 1850  3.018819e-02 -4.578428e-03  1.331202e-03
## 1851 -2.170984e-02 -2.483254e-02  4.068927e-03
## 1852  1.421376e-02 -7.571806e-04  1.199776e-03
## 1853  3.864218e-03  2.008488e-02 -2.728074e-03
## 1856 -6.214494e-03 -4.758990e-02 -5.354868e-03
## 1857  4.343349e-02  2.521271e-02 -1.348769e-03
## 1858  1.417731e-02 -1.838050e-02 -2.810585e-03
## 1859 -2.426119e-02 -7.547988e-03 -5.125078e-02
## 1860  2.872488e-02 -6.500518e-03  2.086811e-01
## 1861 -2.257087e-02 -2.304052e-02 -2.534251e-03
## 1863  9.246237e-03  5.131943e-03  8.452762e-04

```

```

## 1864  1.615278e-02 -2.768452e-02 -1.301968e-03
## 1866 -3.061004e-03  4.367539e-02  5.847988e-03
## 1867 -1.811865e-02  1.507228e-02  3.702338e-03
## 1868 -2.262842e-02 -2.374542e-02  3.152622e-03
## 1869  9.174465e-03  4.140643e-03 -2.714978e-02
## 1870  4.456427e-02  2.662715e-02  5.237792e-03
## 1871 -4.349039e-02  1.178480e-02  8.325336e-03
## 1872  6.260355e-03 -5.984694e-03  8.102094e-03
## 1875  1.172617e-02  4.746977e-03 -7.028806e-03
## 1876 -6.922782e-02  1.830939e-02 -6.355240e-03
## 1877  1.424094e-02 -1.499114e-02 -3.374030e-03
## 1878  2.698137e-02 -1.408230e-02 -5.763088e-03
## 1879  4.810703e-03 -3.766603e-02 -3.781997e-03
## 1880  1.555677e-02 -2.256736e-02  2.633352e-03
## 1882 -2.512428e-02 -1.793857e-02  2.473730e-03
## 1883  4.392505e-03 -3.944358e-02  2.727758e-03
## 1885  2.149109e-02  4.624900e-03  6.128140e-04
## 1886  2.444487e-02  2.808483e-02 -3.921215e-03
## 1887 -1.592218e-02 -2.228837e-02 -1.854140e-02
## 1888 -1.468528e-02 -1.106788e-02 -1.109022e-02
## 1889  2.336173e-02 -4.520560e-03  4.506522e-03
## 1890  1.576097e-02  1.730195e-02  3.448538e-03
## 1891  9.413981e-03  1.091201e-02  5.321225e-03
## 1894  2.880287e-02 -2.473219e-02  4.089656e-03
## 1895  2.104602e-02 -9.096456e-04  2.078349e-03
## 1896 -3.309518e-03  4.502506e-02 -1.556727e-02
## 1897 -1.846215e-02  1.008235e-02  2.347474e-03
## 1898 -2.330508e-02  1.257993e-02  5.978580e-03
## 1899 -2.395969e-02  4.749316e-02  8.180562e-03
## 1901  2.175588e-02 -3.293569e-02 -4.273582e-02
## 1902  1.301361e-02 -3.280323e-02  3.867333e-03
## 1904  2.940592e-02 -2.513632e-02 -6.753396e-03
## 1905 -2.138829e-02  1.642305e-02 -2.016315e-03
## 1906  1.541914e-02  4.187546e-03 -7.125845e-03
## 1907 -1.823429e-02 -3.282299e-02 -3.416262e-04
## 1908  2.987181e-02 -1.454973e-03 -1.782795e-03
## 1909  1.258377e-02  3.660187e-02 -1.973402e-03
## 1910  3.213220e-04 -2.356685e-02  1.854794e-03
## 1913 -1.650071e-02  3.132104e-02  9.366450e-03
## 1914  3.310784e-02 -2.891458e-02  1.762051e-03
## 1915  2.710594e-02 -2.787181e-02 -3.921763e-03
## 1916  1.738408e-02  2.321706e-02  3.658735e-03
## 1917 -2.976644e-02 -3.774067e-02 -4.623247e-03
## 1918  7.064609e-03  3.151651e-02 -2.064019e-03
## 1920  1.785032e-02  1.489155e-02 -3.327539e-03
## 1921  2.266637e-02  1.867420e-02 -1.003400e-03
## 1923  1.036596e-03  1.254818e-02 -1.315457e-02
## 1924 -5.831411e-03  2.462919e-02 -3.747725e-03
## 1925  2.418682e-02 -2.099112e-02  1.159302e-03
## 1926  3.211650e-02  2.154119e-02  1.655506e-03
## 1927 -1.674485e-02 -1.839797e-02  8.446137e-04
## 1928  3.629890e-04  4.413912e-02 -2.364184e-03
## 1929  2.416753e-02  3.424232e-02  1.911053e-03
## 1932 -1.914442e-02 -2.921312e-02  5.825704e-03

```

```

## 1933 2.306196e-02 -2.174769e-02 3.243407e-03
## 1934 -1.414192e-02 -1.153038e-02 1.168761e-02
## 1935 -2.162514e-02 2.321547e-02 3.119016e-03
## 1936 -2.599691e-02 -1.397644e-02 -5.014440e-03
## 1937 5.962213e-02 -2.207717e-02 -7.787143e-03
## 1939 -2.121652e-02 -1.301923e-02 2.434389e-03
## 1940 2.502631e-02 -4.157747e-03 2.019818e-03
## 1942 -4.523678e-02 1.858675e-02 -9.434145e-03
## 1943 1.624020e-03 9.921297e-03 1.920295e-03
## 1944 -2.775995e-02 -1.596810e-02 -2.676245e-03
## 1945 -2.734532e-02 -2.718428e-02 1.179399e-03
## 1946 -2.193577e-02 -2.934019e-02 -3.461323e-03
## 1947 -4.692749e-03 -1.866532e-02 -1.724507e-03
## 1948 1.257996e-02 -1.084379e-03 -3.235787e-03
## 1951 -1.624524e-02 1.175143e-02 -5.033996e-03
## 1952 -2.024245e-02 2.680505e-02 -3.785173e-02
## 1953 -2.229058e-02 1.938198e-03 7.269547e-03
## 1954 1.698997e-03 4.973092e-03 3.993969e-02
## 1955 -1.934171e-03 -1.787350e-02 -9.777119e-03
## 1956 -2.453489e-02 -7.831454e-03 -5.984972e-03
## 1958 -1.799510e-02 -2.625254e-02 -1.857389e-03
## 1959 1.866290e-02 2.305414e-02 4.908386e-04
## 1961 -1.888115e-02 -2.608509e-02 3.444028e-03
## 1962 2.113481e-02 -2.883032e-02 1.845357e-04
## 1963 -7.964596e-04 -2.953832e-02 -1.721630e-02
## 1964 1.557073e-02 3.756398e-02 -4.072641e-03
## 1965 -2.160730e-02 -3.503131e-02 -1.562514e-02
## 1966 -1.700499e-02 -2.722269e-02 8.195960e-03
## 1967 -1.298233e-02 1.046849e-02 2.359395e-02
## 1970 4.077396e-04 1.453700e-02 -1.053751e-03
## 1971 -1.005184e-02 1.137103e-02 -4.535291e-03
## 1972 3.754350e-02 3.490935e-02 -5.276234e-03
## 1973 1.828929e-02 2.365243e-02 4.364043e-03
## 1974 2.615387e-02 2.781259e-02 -1.459057e-03
## 1975 -2.224882e-02 -8.924679e-03 1.886855e-03
## 1977 -1.912160e-02 2.377295e-02 -2.465440e-02
## 1978 1.077470e-02 2.979489e-02 -1.801663e-03
## 1980 3.717450e-03 -1.893504e-02 -6.479387e-04
## 1981 1.612844e-02 5.551823e-03 -4.886265e-03
## 1982 3.986973e-03 -2.703370e-02 3.818561e-03
## 1983 -1.838788e-02 3.296375e-04 -3.600162e-03
## 1984 6.694835e-03 2.704819e-02 5.401149e-03
## 1985 -2.159993e-02 4.598966e-02 -5.195381e-03
## 1986 3.062832e-02 2.741796e-02 6.326688e-03
## 1989 2.100843e-02 4.531322e-02 -2.460722e-03
## 1990 -2.117478e-02 -4.926666e-02 -1.651596e-02
## 1991 -2.187117e-02 3.234675e-02 6.098623e-03
## 1992 -1.100515e-02 -4.630701e-02 2.293886e-02
## 1993 2.178338e-02 -2.806378e-02 1.700820e-03
## 1994 1.614253e-04 4.023820e-02 -6.570776e-04
## 1996 7.528137e-03 2.601958e-03 -2.776272e-03
## 1997 2.649521e-02 -2.440640e-02 -1.848413e-03
## 1999 -2.351794e-02 -2.062401e-03 -1.738058e-03
## 2000 -2.202116e-02 7.417583e-03 -9.570196e-03

```

```

## 2001 -1.901980e-03 4.217203e-03 -3.357233e-03
## 2002 5.823482e-02 -2.493957e-02 -1.855581e-03
## 2003 -6.569226e-02 -2.448684e-02 2.076565e-03
## 2004 -1.538748e-02 3.299464e-02 -2.746338e-03
## 2005 -1.919973e-02 -2.393840e-02 -4.666451e-03
## 2008 2.551480e-02 -1.972760e-02 -6.031944e-03
## 2009 -1.574043e-02 -2.309294e-02 2.507001e-04
## 2010 5.393419e-02 -8.486739e-03 1.466103e-02
## 2011 -2.714143e-02 4.395315e-02 4.517156e-03
## 2012 -2.167290e-02 1.553289e-02 3.517664e-03
## 2013 -2.242478e-02 -5.210527e-04 -1.631187e-03
## 2015 8.260520e-03 3.194971e-02 -5.412604e-03
## 2016 2.140468e-02 -4.419764e-02 8.018601e-04
## 2018 6.345746e-02 1.446651e-02 -4.399431e-03
## 2019 -2.020406e-02 -2.475114e-02 -2.015219e-03
## 2020 -2.211118e-02 -4.144573e-02 3.074534e-01
## 2021 1.979032e-02 4.480564e-03 -2.423716e-03
## 2022 1.352861e-02 -3.959533e-02 2.794850e-03
## 2023 1.615790e-02 -2.764436e-02 -6.776471e-04
## 2024 -1.641594e-02 -2.442156e-02 4.002818e-03
## 2027 -1.112156e-02 -1.967989e-02 -5.205150e-03
## 2028 2.488498e-02 -2.263636e-02 -2.180342e-03
## 2029 1.465561e-02 1.600595e-02 3.017507e-03
## 2030 -2.197246e-02 -2.515631e-02 -6.501174e-03
## 2031 -4.252358e-02 3.625425e-02 -8.584353e-03
## 2032 2.683326e-02 2.435419e-02 3.286023e-03
## 2034 -2.573983e-02 2.553167e-03 -5.117055e-03
## 2035 1.846263e-02 6.837400e-03 -5.527417e-02
## 2037 -2.191470e-02 1.894012e-02 -5.963083e-03
## 2038 5.549640e-03 1.440328e-02 3.989419e-04
## 2039 1.472431e-02 3.259123e-02 -9.597297e-04
## 2040 -4.120118e-02 2.228016e-02 1.028010e-03
## 2041 2.823634e-02 8.075892e-03 2.340298e-03
## 2042 -2.354751e-02 -2.477347e-02 -7.441148e-03
## 2043 4.339555e-04 5.895230e-03 7.437732e-04
## 2046 -2.084554e-02 2.913947e-02 -5.147264e-03
## 2047 -1.784635e-02 3.424283e-02 -9.422518e-04
## 2048 2.793519e-02 3.557815e-03 2.187215e-03
## 2049 2.503129e-02 2.436026e-02 7.238351e-04
## 2050 -9.462440e-03 2.433246e-02 7.340923e-03
## 2051 5.979808e-02 2.140954e-02 -7.407383e-03
## 2053 -6.506110e-03 -4.515969e-04 -4.524886e-04
## 2054 2.389046e-02 3.626698e-02 -2.111009e-04
## 2056 -1.661206e-02 2.871113e-02 -2.769582e-02
## 2057 1.900825e-02 7.033556e-03 6.613068e-03
## 2058 1.664638e-02 -1.754950e-02 -4.750939e-03
## 2059 1.052070e-02 2.634235e-02 3.008285e-03
## 2060 1.668375e-02 3.118624e-02 -4.022478e-03
## 2061 2.999301e-02 3.478136e-02 7.465441e-03
## 2062 -1.893976e-03 -4.393395e-02 1.248388e-03
## 2065 3.867793e-02 -3.265444e-02 -2.085828e-03
## 2066 9.478506e-03 3.745598e-03 -3.191786e-02
## 2067 -2.115055e-02 -3.159430e-02 7.998559e-04
## 2068 1.849716e-02 -1.494135e-02 2.140419e-03

```

```

## 2069 -1.993732e-02 -4.005634e-02 1.980728e-04
## 2070 1.219904e-02 -4.372961e-02 3.486260e-03
## 2072 -6.854183e-03 4.595916e-02 1.255164e-02
## 2073 2.695033e-02 -2.169394e-02 2.581524e-03
## 2075 -1.798721e-02 4.555405e-02 4.955898e-03
## 2076 -1.825181e-02 -3.781092e-02 2.617012e-03
## 2077 -2.157567e-02 -5.687842e-03 4.477341e-03
## 2078 5.167653e-03 2.086995e-02 1.812422e-03
## 2079 -7.123053e-02 -3.706067e-02 -1.843737e-03
## 2080 8.942962e-03 1.643473e-02 3.192149e-03
## 2081 -7.148713e-02 1.194199e-02 -2.576366e-02
## 2084 9.114333e-03 -2.193127e-02 -8.311872e-03
## 2085 7.550601e-03 1.242727e-03 -2.031092e-03
## 2086 2.445656e-03 1.511478e-02 -5.663540e-03
## 2087 2.268552e-02 -1.691710e-02 -6.976255e-03
## 2088 -2.422016e-02 2.041126e-02 2.503697e-04
## 2089 -2.212436e-02 -6.167985e-04 2.609834e-04
## 2091 -2.043111e-02 2.755711e-02 8.651115e-04
## 2092 3.574061e-02 -3.219434e-03 5.425046e-03
## 2094 -2.905000e-03 -2.391570e-02 -4.116423e-02
## 2095 -5.090659e-02 2.668835e-02 -3.486871e-04
## 2096 1.741982e-02 -1.172498e-02 5.059938e-03
## 2097 1.827084e-03 -2.896601e-02 -4.619520e-03
## 2098 5.475575e-03 6.721490e-03 4.948584e-02
## 2099 -1.832840e-02 -8.025556e-04 3.939928e-03
## 2100 2.504178e-02 2.003349e-02 7.665703e-05
## 2103 1.764590e-02 1.797963e-02 1.373475e-03
## 2104 -1.403405e-02 1.614618e-02 3.569267e-03
## 2105 -1.549825e-02 3.355856e-02 1.193329e-03
## 2106 -2.340214e-02 7.239766e-03 -2.588005e-03
## 2107 2.645812e-02 -1.172396e-02 -1.843107e-03
## 2108 -2.555016e-02 7.240335e-03 2.068517e-04
## 2110 -2.262029e-02 -3.787258e-03 -4.188065e-03
## 2111 2.615350e-02 -5.474712e-03 -5.484133e-03
## 2113 -3.332358e-02 1.624332e-02 -6.596724e-03
## 2114 3.743407e-02 4.045154e-02 3.612093e-04
## 2115 -9.679566e-02 -3.828155e-02 2.890787e-03
## 2116 1.896655e-02 -1.632557e-03 5.476465e-03
## 2117 -1.848201e-02 -4.538690e-02 -7.749540e-02
## 2118 -2.070157e-02 -3.724881e-02 1.940097e-01
## 2119 -2.459539e-02 -2.145314e-02 -1.295428e-03
## 2122 -3.241040e-02 1.630209e-03 1.389601e-03
## 2123 1.621131e-02 2.108033e-02 3.941187e-04
## 2124 -2.251334e-02 1.734925e-02 6.446795e-04
## 2125 1.361637e-02 1.478426e-02 -5.248193e-03
## 2126 -1.680303e-02 -3.098372e-02 -6.000386e-02
## 2127 4.109333e-02 -2.234036e-02 1.929832e-03
## 2129 -1.086868e-02 1.932439e-02 -7.550118e-04
## 2130 -2.544498e-02 1.516947e-02 -4.632714e-03
## 2132 1.364167e-02 4.222793e-02 7.075864e-04
## 2133 1.490375e-02 1.272629e-02 3.843176e-04
## 2134 1.939955e-02 -2.519659e-02 -9.685912e-03
## 2135 -9.296354e-04 1.724234e-03 -7.364454e-03
## 2136 4.059014e-02 1.428163e-02 5.912799e-03

```

```

## 2137 -8.590731e-03 -1.065139e-02 -2.777459e-03
## 2138 -1.844679e-02 -5.076461e-03 6.208931e-04
## 2141 -6.944686e-04 1.467949e-02 1.123576e-03
## 2142 -2.321624e-02 1.180065e-02 -4.229691e-03
## 2143 2.212703e-02 -2.348878e-02 -8.981812e-03
## 2144 -2.076440e-02 -3.217471e-04 -8.795371e-03
## 2145 1.353542e-02 2.423904e-02 -4.261836e-02
## 2146 2.352915e-02 -2.562475e-02 6.796027e-02
## 2148 -5.063872e-02 3.038527e-02 5.377866e-03
## 2149 -1.123843e-02 1.809017e-02 1.133403e-04
## 2151 -3.624784e-03 2.714826e-02 2.677464e-03
## 2152 2.676836e-03 -2.143261e-02 3.550548e-03
## 2153 -2.136211e-02 2.576108e-02 3.566679e-03
## attr(,"assign")
## [1] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
##
## $qraux
## [1] 1.025362 1.010174 1.016949 1.004882 1.017779 1.006633 1.018973 1.024229
## [9] 1.027308 1.011204 1.007738 1.061725 1.023298 1.003990 1.006966 1.015360
## [17] 1.044605 1.024417 1.001052
##
## $pivot
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
##
## $tol
## [1] 1e-07
##
## $rank
## [1] 19
##
## attr(,"class")
## [1] "qr"
##
## [[1]]$df.residual
## [1] NA
##
## [[1]]$w
## [1] 1.0000000 1.0000000 1.0000000 0.5592776 1.0000000 1.0000000 1.0000000
## [8] 1.0000000 1.0000000 1.0000000 0.5646886 0.9767079 1.0000000 1.0000000
## [15] 0.7559227 1.0000000 0.6967116 1.0000000 1.0000000 1.0000000 1.0000000
## [22] 1.0000000 1.0000000 1.0000000 0.7707984 1.0000000 1.0000000 1.0000000
## [29] 1.0000000 1.0000000 1.0000000 0.9439131 0.8985456 0.3301454 1.0000000
## [36] 1.0000000 0.5360682 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [43] 1.0000000 0.6508023 1.0000000 0.5983903 0.4496129 1.0000000 1.0000000
## [50] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.5392917
## [57] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.3763611
## [64] 1.0000000 1.0000000 1.0000000 0.7862889 0.3703981 1.0000000 0.5869002
## [71] 0.9270840 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [78] 1.0000000 1.0000000 0.7860707 1.0000000 0.9577608 1.0000000 1.0000000
## [85] 0.9310401 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [92] 0.3136592 1.0000000 1.0000000 0.8371186 0.5683839 1.0000000 1.0000000
## [99] 1.0000000 1.0000000 0.3931685 1.0000000 0.4553829 1.0000000 0.7943805
## [106] 1.0000000 1.0000000 0.9918813 1.0000000 1.0000000 1.0000000 1.0000000
## [113] 0.4496688 0.6374534 1.0000000 0.9210896 1.0000000 1.0000000 1.0000000

```

```

## [120] 1.0000000 0.4199096 1.0000000 0.6629358 1.0000000 1.0000000 1.0000000
## [127] 1.0000000 1.0000000 0.5412738 1.0000000 0.8931292 1.0000000 1.0000000
## [134] 1.0000000 1.0000000 1.0000000 0.8203819 1.0000000 1.0000000 1.0000000
## [141] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.4742123
## [148] 0.5694485 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [155] 1.0000000 0.4829352 1.0000000 1.0000000 1.0000000 1.0000000 0.8813866
## [162] 1.0000000 0.7443882 1.0000000 1.0000000 1.0000000 0.8816663 1.0000000
## [169] 1.0000000 1.0000000 1.0000000 1.0000000 0.4248839 1.0000000 0.6885834
## [176] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.6299164
## [183] 1.0000000 1.0000000 1.0000000 1.0000000 0.8257839 1.0000000 1.0000000
## [190] 1.0000000 0.6851694 1.0000000 1.0000000 1.0000000 0.6399960 1.0000000
## [197] 0.4188791 0.3136206 1.0000000 1.0000000 1.0000000 0.6720563 1.0000000
## [204] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [211] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.4664674
## [218] 0.3965217 1.0000000 1.0000000 0.9418967 1.0000000 1.0000000 1.0000000
## [225] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [232] 1.0000000 1.0000000 0.5385001 0.6200370 1.0000000 1.0000000 1.0000000
## [239] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.5546946
## [246] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.8472562
## [253] 1.0000000 1.0000000 1.0000000 0.4828823 1.0000000 1.0000000 1.0000000
## [260] 0.7654323 1.0000000 1.0000000 0.3403192 1.0000000 1.0000000 1.0000000
## [267] 1.0000000 0.5937628 1.0000000 1.0000000 1.0000000 0.8585839 1.0000000
## [274] 0.5775673 0.8609059 1.0000000 1.0000000 1.0000000 0.3721795 1.0000000
## [281] 1.0000000 1.0000000 1.0000000 1.0000000 0.4329725 1.0000000 0.8036262
## [288] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.8169180 0.5893273
## [295] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [302] 1.0000000 0.3285249 1.0000000 0.7814377 1.0000000 1.0000000 0.6172526
## [309] 1.0000000 1.0000000 0.7549890 1.0000000 0.9216646 1.0000000 1.0000000
## [316] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [323] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.8437309 0.9866189
## [330] 1.0000000 0.2628285 1.0000000 1.0000000 0.8845702 1.0000000 0.3683744
## [337] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.4945641 0.6886892
## [344] 1.0000000 1.0000000 1.0000000 0.9754031 1.0000000 1.0000000 0.9340696
## [351] 0.6004761 1.0000000 0.3286030 0.3983384 1.0000000 1.0000000 0.7621252
## [358] 1.0000000 1.0000000 1.0000000 0.4902990 0.3271987 1.0000000 0.9523369
## [365] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [372] 1.0000000 1.0000000 0.4837877 1.0000000 0.7290821 1.0000000 1.0000000
## [379] 0.5107451 0.4913458 1.0000000 1.0000000 1.0000000 1.0000000 0.3195484
## [386] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.9498506 1.0000000
## [393] 1.0000000 0.6277522 1.0000000 1.0000000 0.5116773 1.0000000 1.0000000
## [400] 1.0000000 1.0000000 1.0000000 0.3175570 1.0000000 1.0000000 1.0000000
## [407] 0.7933549 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.5686344
## [414] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [421] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [428] 1.0000000 0.3018136 0.6434059 1.0000000 1.0000000 1.0000000 1.0000000
## [435] 1.0000000 0.4204567 1.0000000 1.0000000 1.0000000 1.0000000 0.6849839
## [442] 1.0000000 1.0000000 0.8979826 1.0000000 1.0000000 0.9639058 1.0000000
## [449] 1.0000000 0.9546708 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [456] 1.0000000 0.5091807 1.0000000 1.0000000 1.0000000 0.8516872 0.8321426
## [463] 1.0000000 1.0000000 1.0000000 1.0000000 0.8843866 1.0000000 1.0000000
## [470] 1.0000000 1.0000000 1.0000000 1.0000000 0.3846579 0.4563925 1.0000000
## [477] 1.0000000 1.0000000 1.0000000 0.6888633 1.0000000 0.9161705 1.0000000
## [484] 1.0000000 1.0000000 1.0000000 0.7125826 1.0000000 1.0000000 1.0000000
## [491] 0.5130798 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.3963576

```

```

## [498] 1.0000000 0.9778714 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [505] 0.2796658 1.0000000 0.6183235 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [512] 1.0000000 1.0000000 0.3148820 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [519] 0.4930875 1.0000000 0.7175243 1.0000000 0.3837469 1.0000000 1.0000000 1.0000000
## [526] 0.3537099 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [533] 1.0000000 1.0000000 1.0000000 0.5640785 1.0000000 0.3262357 1.0000000 1.0000000
## [540] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [547] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [554] 1.0000000 1.0000000 0.7768436 1.0000000 1.0000000 0.6613773 1.0000000
## [561] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [568] 0.9202785 0.6021003 0.8560007 0.8514532 1.0000000 1.0000000 1.0000000 1.0000000
## [575] 1.0000000 0.9366286 0.6514164 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [582] 1.0000000 0.9561334 0.6892189 0.5206004 0.8061904 0.8824701 1.0000000 1.0000000
## [589] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.8791169 1.0000000 1.0000000
## [596] 0.3811319 0.8751240 1.0000000 1.0000000 0.5536061 1.0000000 1.0000000 1.0000000
## [603] 0.7106176 1.0000000 1.0000000 1.0000000 0.4632219 1.0000000 0.5056522
## [610] 0.9024377 0.4092643 0.5296748 1.0000000 0.6305494 0.3963253 1.0000000
## [617] 0.3460466 1.0000000 0.6649135 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [624] 0.9970146 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [631] 1.0000000 1.0000000 1.0000000 1.0000000 0.8587019 1.0000000 1.0000000 1.0000000
## [638] 1.0000000 0.3149900 0.5770750 1.0000000 1.0000000 1.0000000 0.6411821
## [645] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [652] 1.0000000 0.9735038 0.5950249 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [659] 1.0000000 1.0000000 0.9900142 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [666] 1.0000000 0.5866814 1.0000000 1.0000000 0.6566459 0.5636887 0.5382320
## [673] 0.8458431 1.0000000 1.0000000 1.0000000 0.4571295 1.0000000 1.0000000 1.0000000
## [680] 1.0000000 0.4142324 1.0000000 1.0000000 0.6775875 1.0000000 1.0000000 1.0000000
## [687] 1.0000000 0.8455864 1.0000000 1.0000000 1.0000000 0.5461807 0.6754276
## [694] 0.6011760 0.6558289 1.0000000 1.0000000 0.5918682 1.0000000 1.0000000 1.0000000
## [701] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.6553139 0.5548414
## [708] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [715] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [722] 1.0000000 0.4045208 1.0000000 1.0000000 1.0000000 0.4434228 1.0000000
## [729] 1.0000000 1.0000000 1.0000000 1.0000000 0.5269312 1.0000000 1.0000000 1.0000000
## [736] 1.0000000 1.0000000 0.9696138 1.0000000 1.0000000 1.0000000 0.2814414
## [743] 1.0000000 1.0000000 0.2235779 1.0000000 1.0000000 0.2338009 0.7165672
## [750] 1.0000000 1.0000000 1.0000000 1.0000000 0.7424903 1.0000000 1.0000000 1.0000000
## [757] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [764] 0.5713309 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [771] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [778] 0.3928051 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [785] 0.4351968 1.0000000 1.0000000 0.6450951 1.0000000 1.0000000 1.0000000 1.0000000
## [792] 1.0000000 1.0000000 1.0000000 0.9774600 1.0000000 1.0000000 1.0000000 1.0000000
## [799] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [806] 1.0000000 1.0000000 1.0000000 0.7693898 0.5607365 1.0000000 1.0000000 1.0000000
## [813] 1.0000000 1.0000000 1.0000000 0.3486810 0.7263573 1.0000000 0.6433554
## [820] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [827] 1.0000000 1.0000000 0.9024698 0.5256687 1.0000000 0.8374245 0.6115829
## [834] 1.0000000 1.0000000 1.0000000 1.0000000 0.6381137 1.0000000 1.0000000 1.0000000
## [841] 1.0000000 1.0000000 0.3487222 0.7551442 1.0000000 1.0000000 1.0000000 1.0000000
## [848] 1.0000000 1.0000000 1.0000000 0.6642290 0.8990776 1.0000000 1.0000000 1.0000000
## [855] 1.0000000 1.0000000 0.7974542 1.0000000 1.0000000 1.0000000 0.7677333
## [862] 1.0000000 0.3615881 1.0000000 0.4859399 0.9873564 0.5644064 1.0000000
## [869] 0.5561129 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000

```

```

## [876] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [883] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.9137217 1.0000000
## [890] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.8179777
## [897] 0.4766919 0.2979401 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [904] 0.4942095 1.0000000 1.0000000 1.0000000 1.0000000 0.5497156 1.0000000
## [911] 1.0000000 0.5460045 0.8809937 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [918] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [925] 0.9449788 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [932] 1.0000000 1.0000000 0.4552371 1.0000000 1.0000000 0.7725340 1.0000000
## [939] 1.0000000 0.5068146 1.0000000 1.0000000 0.4382265 1.0000000 1.0000000
## [946] 0.9382614 0.2992985 1.0000000 1.0000000 0.6194368 0.6519903 0.6039103
## [953] 0.4278066 0.9201316 0.9575630 1.0000000 1.0000000 1.0000000 0.9705733
## [960] 0.6069586 1.0000000 1.0000000 0.9901067 1.0000000 1.0000000 1.0000000
## [967] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [974] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [981] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [988] 1.0000000 1.0000000 1.0000000 0.8280842 0.8430202 1.0000000 1.0000000
## [995] 0.6871384 1.0000000 1.0000000 0.5679977 1.0000000 1.0000000 1.0000000
## [1002] 0.8036851 1.0000000 1.0000000 0.9724158 1.0000000 1.0000000 1.0000000
## [1009] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1016] 1.0000000 1.0000000 0.6168545 1.0000000 1.0000000 1.0000000 1.0000000
## [1023] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.9248789 1.0000000
## [1030] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1037] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1044] 1.0000000 1.0000000 1.0000000 0.7259122 1.0000000 1.0000000 1.0000000
## [1051] 0.7451755 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1058] 1.0000000 1.0000000 1.0000000 0.6136935 1.0000000 1.0000000 1.0000000
## [1065] 0.5161394 1.0000000 0.8117121 1.0000000 1.0000000 1.0000000 1.0000000
## [1072] 0.2863067 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.8815679
## [1079] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1086] 1.0000000 0.6631244 0.1913017 1.0000000 1.0000000 1.0000000 0.5909203
## [1093] 0.7722761 0.5034042 1.0000000 1.0000000 1.0000000 1.0000000 0.3298486
## [1100] 1.0000000 1.0000000 1.0000000 1.0000000 0.9017119 1.0000000 1.0000000
## [1107] 1.0000000 1.0000000 0.9945908 1.0000000 1.0000000 1.0000000 1.0000000
## [1114] 1.0000000 0.8927599 1.0000000 1.0000000 1.0000000 0.7036610 1.0000000
## [1121] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1128] 1.0000000 0.2576167 1.0000000 1.0000000 0.6158672 1.0000000 1.0000000
## [1135] 1.0000000 1.0000000 0.5010594 1.0000000 1.0000000 1.0000000 1.0000000
## [1142] 1.0000000 1.0000000 1.0000000 1.0000000 0.4230432 1.0000000 1.0000000
## [1149] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.3568404 0.6404793
## [1156] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.4413410
## [1163] 0.4860620 0.3821347 0.9292358 0.4457937 1.0000000 1.0000000 1.0000000
## [1170] 1.0000000 1.0000000 1.0000000 0.8893520 0.6684875 1.0000000 1.0000000
## [1177] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1184] 1.0000000 1.0000000 1.0000000 0.4600446 1.0000000 0.4756798 0.8996098
## [1191] 1.0000000 1.0000000 0.7826594 1.0000000 1.0000000 1.0000000 1.0000000
## [1198] 1.0000000 1.0000000 0.4744392 1.0000000 1.0000000 1.0000000 1.0000000
## [1205] 1.0000000 1.0000000 0.4530806 1.0000000 1.0000000 1.0000000 0.4636548
## [1212] 1.0000000 0.3174996 1.0000000 1.0000000 1.0000000 1.0000000 0.5834783
## [1219] 1.0000000 0.9370864 1.0000000 1.0000000 1.0000000 1.0000000 0.3217844
## [1226] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.8896933
## [1233] 1.0000000 1.0000000 0.6495450 1.0000000 1.0000000 1.0000000 1.0000000
## [1240] 1.0000000 1.0000000 0.5088459 0.9553081 1.0000000 1.0000000 1.0000000
## [1247] 1.0000000 0.3309952 0.6370510 0.4439514 1.0000000 0.8681944 0.4811571

```

```

## [1254] 0.5337105 1.0000000 1.0000000 0.9063115 1.0000000 0.3942586 1.0000000
## [1261] 0.6050079 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1268] 1.0000000 1.0000000 1.0000000 1.0000000 0.9432926 1.0000000 1.0000000
## [1275] 1.0000000 1.0000000 1.0000000 0.5502249 1.0000000 1.0000000 1.0000000
## [1282] 1.0000000 0.6952800 1.0000000 0.5527056 1.0000000 1.0000000 1.0000000
## [1289] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.3131461 1.0000000
## [1296] 1.0000000 0.8321337 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1303] 1.0000000 1.0000000 1.0000000 0.8155294 1.0000000 1.0000000 1.0000000
## [1310] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.5172283
## [1317] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1324] 1.0000000 0.4034767 1.0000000 1.0000000 1.0000000 0.6618286 0.4709017
## [1331] 1.0000000 1.0000000 1.0000000 0.9298921 0.9956324 1.0000000 1.0000000
## [1338] 1.0000000 1.0000000 0.9843396 1.0000000 1.0000000 1.0000000 1.0000000
## [1345] 1.0000000 1.0000000 1.0000000 0.8952625 0.6475273 1.0000000 1.0000000
## [1352] 1.0000000 1.0000000 1.0000000 0.6870036 1.0000000 1.0000000 0.8852043
## [1359] 1.0000000 0.8691984 0.3512788 0.9838407 1.0000000 1.0000000 1.0000000
## [1366] 1.0000000 1.0000000 1.0000000 0.2859227 1.0000000 0.8868587 1.0000000
## [1373] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1380] 1.0000000 0.1663673 1.0000000 1.0000000 1.0000000 0.8122044 1.0000000
## [1387] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.3408460 1.0000000
## [1394] 0.7889398 1.0000000 1.0000000 0.5954391 1.0000000 1.0000000 1.0000000
## [1401] 1.0000000 1.0000000 0.5415284 0.4148212 0.6132709 1.0000000 1.0000000
## [1408] 1.0000000 1.0000000 1.0000000 1.0000000 0.3976850 0.9497613 1.0000000
## [1415] 1.0000000 1.0000000 0.8536283 0.8586913 1.0000000 1.0000000 1.0000000
## [1422] 0.5715509 1.0000000 1.0000000 1.0000000 1.0000000 0.7212727 0.5027378
## [1429] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1436] 0.6498067 1.0000000 0.9354896 1.0000000 1.0000000 1.0000000 1.0000000
## [1443] 1.0000000 1.0000000 0.4879622 0.2800824 1.0000000 1.0000000 1.0000000
## [1450] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1457] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.5052931 0.3298394
## [1464] 1.0000000 1.0000000 0.2605995 0.4423024 0.9679492 1.0000000 1.0000000
## [1471] 1.0000000 1.0000000 0.8878787 1.0000000 1.0000000 1.0000000 1.0000000
## [1478] 1.0000000 0.7730573 1.0000000 0.4378631 0.9803268 1.0000000 1.0000000
## [1485] 1.0000000 0.8519585 1.0000000 1.0000000 1.0000000 1.0000000 0.6888151
## [1492] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1499] 1.0000000 1.0000000 1.0000000 1.0000000 0.6774274 0.4865325 1.0000000
## [1506] 1.0000000 0.9816892 0.3046819 1.0000000 1.0000000 1.0000000 0.4690028
## [1513] 1.0000000 0.7734980 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1520] 1.0000000 0.7563862 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1527] 1.0000000 1.0000000 1.0000000 0.9530707 0.6684515 1.0000000 1.0000000
## [1534] 1.0000000 1.0000000 1.0000000 0.6721563 1.0000000 0.3123420 1.0000000
## [1541] 1.0000000 0.3081330 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1548] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.5624105 1.0000000
## [1555] 1.0000000 1.0000000 0.4920406 1.0000000 1.0000000 1.0000000 1.0000000
## [1562] 0.4636820 1.0000000 0.5166469 1.0000000 1.0000000 1.0000000 1.0000000
## [1569] 0.7645666 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1576] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1583] 1.0000000 0.8031607 0.5727226 1.0000000 1.0000000 1.0000000 1.0000000
## [1590] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1597] 1.0000000 0.5388058 1.0000000 1.0000000 0.3880675 1.0000000 1.0000000
## [1604] 1.0000000 1.0000000 1.0000000 1.0000000 0.2355261 1.0000000 1.0000000
## [1611] 0.8879865 0.8715573 1.0000000 0.7264322 0.6523732 1.0000000 1.0000000
## [1618] 1.0000000 1.0000000 0.7287696 1.0000000 0.7098371 1.0000000 0.6645216
## [1625] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000

```


| | | | | | | | | |
|-------|---|---|---|----|-------|-------|---|----|
| ## 32 | 1 | 0 | 0 | 0 | 5700 | 0 | 0 | 1 |
| ## 33 | 1 | 0 | 2 | 15 | 13130 | 3622 | 3 | 20 |
| ## 34 | 1 | 1 | 1 | 16 | 15760 | 1738 | 2 | 1 |
| ## 35 | 1 | 0 | 3 | 18 | 20350 | 0 | 0 | 15 |
| ## 36 | 1 | 0 | 0 | 12 | 13160 | 0 | 0 | 17 |
| ## 38 | 1 | 1 | 3 | 0 | 16510 | 17445 | 3 | 1 |
| ## 39 | 1 | 0 | 0 | 15 | 9930 | 0 | 0 | 5 |
| ## 41 | 1 | 0 | 2 | 14 | 12930 | 35666 | 2 | 7 |
| ## 42 | 1 | 3 | 4 | 0 | 1500 | 0 | 0 | 10 |
| ## 43 | 1 | 0 | 3 | 11 | 42550 | 35879 | 1 | 20 |
| ## 44 | 1 | 0 | 0 | 13 | 13850 | 0 | 0 | 7 |
| ## 45 | 1 | 0 | 3 | 14 | 14030 | 0 | 0 | 5 |
| ## 46 | 1 | 0 | 0 | 12 | 14870 | 0 | 0 | 14 |
| ## 47 | 1 | 1 | 1 | 12 | 24130 | 0 | 0 | 16 |
| ## 50 | 1 | 0 | 0 | 11 | 30260 | 0 | 0 | 9 |
| ## 51 | 1 | 2 | 2 | 12 | 7200 | 0 | 0 | 8 |
| ## 52 | 1 | 0 | 0 | 8 | 22450 | 3738 | 1 | 1 |
| ## 53 | 1 | 0 | 0 | 0 | 18150 | 6544 | 1 | 11 |
| ## 54 | 1 | 0 | 0 | 13 | 7650 | 0 | 0 | 9 |
| ## 55 | 1 | 0 | 1 | 9 | 5300 | 7504 | 2 | 20 |
| ## 57 | 1 | 0 | 2 | 8 | 3100 | 10099 | 2 | 5 |
| ## 58 | 1 | 0 | 0 | 13 | 20090 | 10520 | 2 | 14 |
| ## 60 | 1 | 0 | 0 | 12 | 11650 | 10231 | 1 | 1 |
| ## 61 | 1 | 1 | 2 | 12 | 11750 | 9261 | 1 | 12 |
| ## 62 | 1 | 0 | 2 | 4 | 6100 | 5771 | 1 | 1 |
| ## 63 | 1 | 0 | 0 | 12 | 23250 | 5039 | 1 | 18 |
| ## 64 | 1 | 0 | 1 | 9 | 20630 | 7767 | 2 | 1 |
| ## 65 | 1 | 0 | 1 | 8 | 22340 | 4769 | 1 | 1 |
| ## 66 | 1 | 1 | 2 | 0 | 6000 | 41818 | 1 | 1 |
| ## 69 | 1 | 0 | 0 | 12 | 23470 | 41913 | 3 | 15 |
| ## 70 | 1 | 0 | 3 | 14 | 6960 | 0 | 0 | 14 |
| ## 71 | 1 | 0 | 0 | 9 | 28710 | 0 | 0 | 3 |
| ## 72 | 1 | 0 | 2 | 9 | 11480 | 17493 | 4 | 1 |
| ## 73 | 1 | 2 | 2 | 11 | 22920 | 0 | 0 | 10 |
| ## 74 | 1 | 0 | 0 | 7 | 16370 | 3913 | 2 | 1 |
| ## 76 | 1 | 1 | 2 | 13 | 10210 | 0 | 0 | 5 |
| ## 77 | 1 | 0 | 1 | 12 | 5460 | 4188 | 2 | 1 |
| ## 79 | 1 | 0 | 0 | 0 | 8560 | 3769 | 2 | 14 |
| ## 80 | 1 | 0 | 0 | 12 | 7960 | 1079 | 2 | 9 |
| ## 81 | 1 | 0 | 0 | 8 | 29220 | 0 | 0 | 13 |
| ## 82 | 1 | 0 | 1 | 0 | 4100 | 11279 | 3 | 6 |
| ## 83 | 1 | 0 | 2 | 11 | 11510 | 0 | 0 | 10 |
| ## 84 | 1 | 0 | 0 | 8 | 25420 | 0 | 0 | 1 |
| ## 85 | 1 | 0 | 0 | 11 | 24520 | 0 | 0 | 1 |
| ## 88 | 1 | 1 | 2 | 0 | 1500 | 0 | 0 | 1 |
| ## 89 | 1 | 0 | 0 | 13 | 9260 | 39892 | 3 | 1 |
| ## 90 | 1 | 0 | 2 | 13 | 11840 | 44414 | 1 | 1 |
| ## 91 | 1 | 1 | 2 | 11 | 11440 | 981 | 1 | 7 |
| ## 92 | 1 | 0 | 1 | 12 | 22720 | 1992 | 2 | 9 |
| ## 93 | 1 | 1 | 2 | 7 | 7420 | 0 | 0 | 1 |
| ## 95 | 1 | 0 | 0 | 11 | 21840 | 6600 | 2 | 5 |
| ## 96 | 1 | 0 | 0 | 8 | 6400 | 7993 | 1 | 6 |
| ## 98 | 1 | 0 | 0 | 6 | 14060 | 3868 | 1 | 6 |
| ## 99 | 1 | 0 | 0 | 5 | 9360 | 0 | 0 | 1 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 100 | 1 | 0 | 0 | 5 | 16250 | 0 | 0 | 19 |
| ## 101 | 1 | 0 | 0 | 12 | 4700 | 0 | 0 | 9 |
| ## 102 | 1 | 1 | 2 | 18 | 18960 | 8571 | 1 | 1 |
| ## 103 | 1 | 2 | 3 | 13 | 26280 | 39535 | 3 | 8 |
| ## 104 | 1 | 0 | 0 | 15 | 14360 | 30288 | 1 | 11 |
| ## 107 | 1 | 0 | 2 | 9 | 9130 | 32882 | 1 | 1 |
| ## 108 | 1 | 1 | 2 | 7 | 5560 | 2949 | 2 | 1 |
| ## 109 | 1 | 0 | 2 | 17 | 14250 | 0 | 0 | 7 |
| ## 110 | 1 | 1 | 2 | 15 | 10610 | 34041 | 3 | 7 |
| ## 111 | 1 | 0 | 0 | 11 | 10590 | 0 | 0 | 11 |
| ## 112 | 1 | 2 | 3 | 10 | 7790 | 1055 | 4 | 10 |
| ## 114 | 1 | 0 | 3 | 11 | 9170 | 0 | 0 | 8 |
| ## 115 | 1 | 0 | 0 | 15 | 11940 | 4792 | 1 | 11 |
| ## 117 | 1 | 0 | 0 | 13 | 8060 | 0 | 0 | 1 |
| ## 118 | 1 | 0 | 2 | 11 | 20180 | 0 | 0 | 5 |
| ## 119 | 1 | 0 | 1 | 11 | 4050 | 3971 | 2 | 1 |
| ## 120 | 1 | 0 | 0 | 13 | 6500 | 0 | 0 | 1 |
| ## 121 | 1 | 0 | 2 | 13 | 28960 | 1613 | 1 | 8 |
| ## 122 | 1 | 0 | 0 | 6 | 12880 | 0 | 0 | 10 |
| ## 123 | 1 | 0 | 4 | 13 | 9210 | 1271 | 2 | 1 |
| ## 126 | 1 | 0 | 2 | 12 | 5800 | 0 | 0 | 8 |
| ## 127 | 1 | 0 | 0 | 10 | 21660 | 4002 | 2 | 3 |
| ## 128 | 1 | 0 | 0 | 0 | 11610 | 19545 | 1 | 1 |
| ## 129 | 1 | 1 | 2 | 11 | 23280 | 0 | 0 | 5 |
| ## 130 | 1 | 0 | 0 | 15 | 1500 | 5385 | 2 | 7 |
| ## 131 | 1 | 0 | 0 | 10 | 22620 | 37211 | 3 | 10 |
| ## 133 | 1 | 0 | 3 | 15 | 5100 | 0 | 0 | 8 |
| ## 134 | 1 | 0 | 0 | 14 | 14000 | 0 | 0 | 1 |
| ## 136 | 1 | 0 | 2 | 14 | 17680 | 0 | 0 | 10 |
| ## 137 | 1 | 0 | 0 | 9 | 23600 | 0 | 0 | 1 |
| ## 138 | 1 | 0 | 3 | 8 | 7080 | 0 | 0 | 11 |
| ## 139 | 1 | 0 | 1 | 11 | 34640 | 0 | 0 | 8 |
| ## 140 | 1 | 0 | 0 | 8 | 24340 | 4599 | 1 | 4 |
| ## 141 | 1 | 0 | 0 | 12 | 19300 | 4390 | 3 | 6 |
| ## 142 | 1 | 0 | 0 | 11 | 13540 | 8062 | 2 | 1 |
| ## 145 | 1 | 3 | 3 | 16 | 7700 | 8002 | 3 | 1 |
| ## 146 | 1 | 0 | 0 | 10 | 10940 | 0 | 0 | 14 |
| ## 147 | 1 | 0 | 0 | 13 | 16620 | 0 | 0 | 16 |
| ## 148 | 1 | 0 | 1 | 12 | 3900 | 0 | 0 | 16 |
| ## 149 | 1 | 0 | 0 | 13 | 21270 | 2622 | 1 | 20 |
| ## 150 | 1 | 0 | 0 | 11 | 22780 | 8400 | 1 | 22 |
| ## 152 | 1 | 0 | 3 | 11 | 4500 | 3919 | 1 | 20 |
| ## 153 | 1 | 1 | 1 | 9 | 36080 | 0 | 0 | 8 |
| ## 155 | 1 | 0 | 0 | 10 | 6380 | 7223 | 1 | 1 |
| ## 156 | 1 | 0 | 0 | 10 | 18870 | 5581 | 2 | 1 |
| ## 157 | 1 | 0 | 0 | 0 | 2680 | 0 | 0 | 21 |
| ## 158 | 1 | 0 | 0 | 8 | 15810 | 9718 | 3 | 9 |
| ## 159 | 1 | 0 | 0 | 14 | 15040 | 0 | 0 | 16 |
| ## 160 | 1 | 1 | 2 | 10 | 6480 | 9773 | 2 | 5 |
| ## 161 | 1 | 0 | 1 | 14 | 8130 | 5398 | 1 | 1 |
| ## 164 | 1 | 0 | 0 | 9 | 4500 | 5575 | 2 | 10 |
| ## 165 | 1 | 0 | 2 | 11 | 5850 | 31401 | 3 | 1 |
| ## 166 | 1 | 0 | 0 | 3 | 9160 | 0 | 0 | 9 |
| ## 167 | 1 | 0 | 0 | 11 | 8730 | 3979 | 1 | 1 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 168 | 1 | 0 | 0 | 13 | 12160 | 3211 | 1 | 15 |
| ## 169 | 1 | 0 | 0 | 14 | 8050 | 9231 | 3 | 1 |
| ## 171 | 1 | 2 | 3 | 9 | 10480 | 0 | 0 | 1 |
| ## 172 | 1 | 0 | 1 | 6 | 7100 | 0 | 0 | 1 |
| ## 174 | 1 | 2 | 3 | 16 | 24010 | 4426 | 2 | 5 |
| ## 175 | 1 | 0 | 0 | 9 | 25280 | 0 | 0 | 13 |
| ## 176 | 1 | 0 | 1 | 7 | 2190 | 11226 | 1 | 9 |
| ## 177 | 1 | 0 | 0 | 0 | 1500 | 0 | 0 | 7 |
| ## 178 | 1 | 2 | 3 | 10 | 17600 | 16545 | 1 | 4 |
| ## 179 | 1 | 1 | 2 | 15 | 27520 | 35585 | 2 | 18 |
| ## 180 | 1 | 0 | 1 | 13 | 16090 | 0 | 0 | 19 |
| ## 183 | 1 | 0 | 2 | 10 | 20870 | 1994 | 2 | 15 |
| ## 184 | 1 | 0 | 0 | 9 | 36390 | 0 | 0 | 13 |
| ## 185 | 1 | 0 | 0 | 9 | 36690 | 0 | 0 | 16 |
| ## 186 | 1 | 0 | 2 | 14 | 10580 | 0 | 0 | 1 |
| ## 187 | 1 | 0 | 2 | 13 | 5370 | 0 | 0 | 1 |
| ## 188 | 1 | 0 | 0 | 0 | 6400 | 0 | 0 | 9 |
| ## 190 | 1 | 0 | 1 | 13 | 13890 | 15849 | 1 | 10 |
| ## 191 | 1 | 0 | 1 | 11 | 4800 | 0 | 0 | 1 |
| ## 193 | 1 | 0 | 2 | 0 | 10120 | 3928 | 2 | 8 |
| ## 194 | 1 | 0 | 0 | 12 | 6300 | 0 | 0 | 12 |
| ## 195 | 1 | 0 | 2 | 12 | 26520 | 0 | 0 | 13 |
| ## 196 | 1 | 2 | 3 | 14 | 26710 | 0 | 0 | 7 |
| ## 197 | 1 | 2 | 2 | 8 | 9420 | 5858 | 2 | 1 |
| ## 198 | 1 | 0 | 2 | 13 | 11830 | 7645 | 2 | 1 |
| ## 199 | 1 | 1 | 2 | 9 | 25750 | 7637 | 2 | 9 |
| ## 202 | 1 | 0 | 0 | 12 | 12410 | 0 | 0 | 14 |
| ## 203 | 1 | 0 | 3 | 11 | 17370 | 7081 | 3 | 9 |
| ## 204 | 1 | 0 | 0 | 11 | 12770 | 0 | 0 | 1 |
| ## 205 | 1 | 0 | 0 | 14 | 13450 | 30094 | 4 | 4 |
| ## 206 | 1 | 0 | 0 | 10 | 20590 | 0 | 0 | 13 |
| ## 207 | 1 | 0 | 0 | 13 | 30580 | 0 | 0 | 17 |
| ## 209 | 1 | 0 | 0 | 9 | 5540 | 0 | 0 | 1 |
| ## 210 | 1 | 0 | 0 | 0 | 11750 | 0 | 0 | 8 |
| ## 212 | 1 | 0 | 0 | 0 | 6720 | 3029 | 2 | 1 |
| ## 213 | 1 | 0 | 3 | 16 | 10750 | 0 | 0 | 16 |
| ## 214 | 1 | 0 | 0 | 16 | 11810 | 0 | 0 | 15 |
| ## 215 | 1 | 0 | 0 | 0 | 14500 | 9063 | 3 | 9 |
| ## 216 | 1 | 0 | 1 | 12 | 2330 | 0 | 0 | 7 |
| ## 217 | 1 | 0 | 0 | 10 | 9480 | 0 | 0 | 12 |
| ## 218 | 1 | 1 | 4 | 8 | 21520 | 4082 | 2 | 17 |
| ## 221 | 1 | 0 | 2 | 11 | 18130 | 0 | 0 | 10 |
| ## 222 | 1 | 0 | 0 | 0 | 7900 | 23432 | 2 | 8 |
| ## 223 | 1 | 0 | 2 | 0 | 5000 | 4477 | 1 | 13 |
| ## 224 | 1 | 0 | 3 | 0 | 6720 | 52445 | 3 | 6 |
| ## 225 | 1 | 1 | 2 | 0 | 23630 | 10612 | 3 | 8 |
| ## 226 | 1 | 0 | 1 | 11 | 8620 | 5399 | 2 | 1 |
| ## 228 | 1 | 0 | 1 | 10 | 22690 | 4940 | 2 | 8 |
| ## 229 | 1 | 0 | 0 | 16 | 14610 | 0 | 0 | 1 |
| ## 231 | 1 | 1 | 2 | 14 | 6000 | 0 | 0 | 1 |
| ## 232 | 1 | 0 | 4 | 10 | 5850 | 12269 | 1 | 12 |
| ## 233 | 1 | 2 | 2 | 16 | 21880 | 6120 | 2 | 18 |
| ## 234 | 1 | 0 | 0 | 11 | 15080 | 9575 | 1 | 6 |
| ## 235 | 1 | 0 | 0 | 10 | 8590 | 3175 | 2 | 10 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 236 | 1 | 0 | 2 | 14 | 8930 | 5289 | 1 | 1 |
| ## 237 | 1 | 0 | 0 | 9 | 11230 | 0 | 0 | 1 |
| ## 240 | 1 | 0 | 1 | 13 | 5330 | 17857 | 1 | 1 |
| ## 241 | 1 | 0 | 0 | 10 | 15670 | 7864 | 3 | 9 |
| ## 242 | 1 | 0 | 0 | 14 | 10970 | 0 | 0 | 1 |
| ## 243 | 1 | 0 | 2 | 12 | 10320 | 4716 | 1 | 12 |
| ## 244 | 1 | 0 | 1 | 11 | 14580 | 25433 | 3 | 9 |
| ## 245 | 1 | 0 | 5 | 16 | 23450 | 20060 | 1 | 1 |
| ## 247 | 1 | 1 | 1 | 12 | 5400 | 7940 | 3 | 15 |
| ## 248 | 1 | 0 | 2 | 14 | 7760 | 0 | 0 | 1 |
| ## 250 | 1 | 0 | 0 | 10 | 12220 | 25313 | 3 | 8 |
| ## 251 | 1 | 0 | 0 | 9 | 21620 | 0 | 0 | 7 |
| ## 252 | 1 | 0 | 4 | 14 | 1500 | 26686 | 1 | 1 |
| ## 253 | 1 | 0 | 0 | 0 | 5260 | 0 | 0 | 1 |
| ## 254 | 1 | 0 | 0 | 12 | 14160 | 43052 | 2 | 5 |
| ## 255 | 1 | 0 | 0 | 8 | 37180 | 1681 | 1 | 11 |
| ## 256 | 1 | 0 | 2 | 12 | 1500 | 5419 | 1 | 6 |
| ## 259 | 1 | 0 | 3 | 0 | 1500 | 0 | 0 | 8 |
| ## 260 | 1 | 0 | 2 | 13 | 9960 | 0 | 0 | 1 |
| ## 261 | 1 | 1 | 2 | 9 | 18810 | 2415 | 1 | 10 |
| ## 262 | 1 | 0 | 0 | 13 | 13150 | 5484 | 1 | 1 |
| ## 263 | 1 | 0 | 0 | 16 | 4790 | 37285 | 3 | 7 |
| ## 264 | 1 | 0 | 1 | 13 | 19700 | 7276 | 2 | 13 |
| ## 266 | 1 | 0 | 2 | 14 | 20750 | 8403 | 1 | 10 |
| ## 267 | 1 | 0 | 0 | 7 | 11700 | 7228 | 1 | 7 |
| ## 269 | 1 | 2 | 3 | 11 | 19810 | 0 | 0 | 12 |
| ## 270 | 1 | 0 | 1 | 11 | 14790 | 6373 | 1 | 1 |
| ## 271 | 1 | 1 | 2 | 12 | 22010 | 3226 | 2 | 6 |
| ## 272 | 1 | 0 | 0 | 10 | 3800 | 30922 | 2 | 1 |
| ## 273 | 1 | 0 | 2 | 10 | 10650 | 6697 | 3 | 4 |
| ## 274 | 1 | 0 | 0 | 6 | 20730 | 0 | 0 | 1 |
| ## 275 | 1 | 0 | 0 | 11 | 12540 | 0 | 0 | 8 |
| ## 278 | 1 | 0 | 0 | 0 | 8000 | 37129 | 2 | 6 |
| ## 279 | 1 | 0 | 0 | 10 | 12970 | 8917 | 1 | 1 |
| ## 280 | 1 | 0 | 0 | 11 | 19990 | 0 | 0 | 1 |
| ## 281 | 1 | 0 | 2 | 12 | 5100 | 0 | 0 | 1 |
| ## 282 | 1 | 1 | 2 | 0 | 7070 | 982 | 3 | 6 |
| ## 283 | 1 | 0 | 0 | 0 | 23060 | 8752 | 3 | 18 |
| ## 285 | 1 | 0 | 0 | 7 | 6700 | 5524 | 2 | 16 |
| ## 286 | 1 | 1 | 2 | 7 | 14130 | 6265 | 2 | 8 |
| ## 288 | 1 | 2 | 2 | 14 | 22310 | 3816 | 3 | 15 |
| ## 289 | 1 | 0 | 2 | 13 | 16200 | 0 | 0 | 1 |
| ## 290 | 1 | 0 | 0 | 12 | 11100 | 4821 | 3 | 1 |
| ## 291 | 1 | 0 | 2 | 10 | 6640 | 17308 | 3 | 1 |
| ## 292 | 1 | 0 | 1 | 0 | 11630 | 9624 | 2 | 1 |
| ## 293 | 1 | 0 | 3 | 0 | 7810 | 31379 | 5 | 6 |
| ## 294 | 1 | 2 | 2 | 5 | 7160 | 0 | 0 | 1 |
| ## 297 | 1 | 2 | 2 | 17 | 10860 | 7497 | 1 | 1 |
| ## 298 | 1 | 0 | 0 | 13 | 6700 | 5984 | 2 | 16 |
| ## 299 | 1 | 0 | 0 | 10 | 9400 | 9642 | 3 | 5 |
| ## 300 | 1 | 0 | 0 | 11 | 19830 | 0 | 0 | 18 |
| ## 301 | 1 | 0 | 1 | 12 | 17760 | 29471 | 2 | 18 |
| ## 302 | 1 | 0 | 0 | 14 | 10650 | 0 | 0 | 15 |
| ## 304 | 1 | 0 | 0 | 14 | 5390 | 0 | 0 | 16 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 305 | 1 | 1 | 1 | 13 | 14850 | 35737 | 3 | 17 |
| ## 307 | 1 | 0 | 0 | 12 | 9470 | 0 | 0 | 6 |
| ## 308 | 1 | 0 | 2 | 11 | 9600 | 4111 | 1 | 4 |
| ## 309 | 1 | 0 | 0 | 0 | 12380 | 29865 | 2 | 12 |
| ## 310 | 1 | 0 | 1 | 0 | 7770 | 32562 | 1 | 5 |
| ## 311 | 1 | 0 | 1 | 14 | 17710 | 0 | 0 | 8 |
| ## 312 | 1 | 0 | 0 | 16 | 19030 | 8377 | 2 | 7 |
| ## 313 | 1 | 0 | 0 | 10 | 17850 | 27872 | 2 | 1 |
| ## 316 | 1 | 0 | 3 | 11 | 15640 | 7628 | 2 | 8 |
| ## 317 | 1 | 0 | 0 | 13 | 8330 | 3730 | 1 | 1 |
| ## 318 | 1 | 0 | 0 | 0 | 13520 | 28386 | 2 | 1 |
| ## 319 | 1 | 2 | 3 | 12 | 9360 | 1218 | 2 | 10 |
| ## 320 | 1 | 0 | 0 | 10 | 23650 | 0 | 0 | 9 |
| ## 321 | 1 | 0 | 3 | 13 | 12460 | 0 | 0 | 6 |
| ## 323 | 1 | 0 | 0 | 14 | 28170 | 0 | 0 | 18 |
| ## 324 | 1 | 0 | 2 | 14 | 8980 | 4423 | 2 | 12 |
| ## 326 | 1 | 0 | 0 | 10 | 12030 | 29205 | 3 | 13 |
| ## 327 | 1 | 0 | 0 | 12 | 12180 | 3252 | 3 | 4 |
| ## 328 | 1 | 0 | 0 | 12 | 5730 | 0 | 0 | 1 |
| ## 329 | 1 | 0 | 0 | 6 | 7000 | 50111 | 4 | 17 |
| ## 330 | 1 | 0 | 0 | 11 | 15870 | 0 | 0 | 8 |
| ## 331 | 1 | 0 | 0 | 10 | 1500 | 3278 | 1 | 1 |
| ## 332 | 1 | 0 | 0 | 13 | 29020 | 1348 | 3 | 20 |
| ## 335 | 1 | 1 | 2 | 13 | 9830 | 4582 | 2 | 1 |
| ## 336 | 1 | 0 | 3 | 11 | 6920 | 0 | 0 | 1 |
| ## 337 | 1 | 0 | 2 | 0 | 14500 | 0 | 0 | 6 |
| ## 338 | 1 | 0 | 1 | 12 | 11290 | 0 | 0 | 14 |
| ## 339 | 1 | 0 | 0 | 7 | 50970 | 6364 | 1 | 14 |
| ## 340 | 1 | 1 | 2 | 14 | 31390 | 0 | 0 | 14 |
| ## 342 | 1 | 0 | 0 | 16 | 15320 | 0 | 0 | 9 |
| ## 343 | 1 | 0 | 3 | 14 | 5800 | 6755 | 1 | 9 |
| ## 345 | 1 | 0 | 0 | 15 | 20850 | 7946 | 1 | 1 |
| ## 346 | 1 | 0 | 0 | 9 | 33220 | 4678 | 3 | 8 |
| ## 347 | 1 | 0 | 2 | 12 | 18990 | 29781 | 3 | 6 |
| ## 348 | 1 | 0 | 1 | 13 | 20950 | 5737 | 3 | 1 |
| ## 349 | 1 | 0 | 0 | 11 | 11740 | 9883 | 1 | 14 |
| ## 350 | 1 | 0 | 0 | 15 | 6500 | 0 | 0 | 7 |
| ## 351 | 1 | 0 | 0 | 8 | 9530 | 0 | 0 | 17 |
| ## 354 | 1 | 0 | 1 | 12 | 5100 | 4936 | 1 | 1 |
| ## 355 | 1 | 0 | 1 | 13 | 12510 | 0 | 0 | 9 |
| ## 356 | 1 | 0 | 0 | 15 | 21720 | 0 | 0 | 1 |
| ## 357 | 1 | 0 | 0 | 11 | 6610 | 0 | 0 | 13 |
| ## 358 | 1 | 0 | 1 | 2 | 9750 | 6691 | 2 | 9 |
| ## 359 | 1 | 0 | 1 | 14 | 18120 | 6801 | 1 | 7 |
| ## 361 | 1 | 0 | 0 | 12 | 6410 | 46652 | 2 | 1 |
| ## 362 | 1 | 0 | 0 | 0 | 25020 | 44429 | 3 | 7 |
| ## 364 | 1 | 0 | 0 | 12 | 7270 | 0 | 0 | 19 |
| ## 365 | 1 | 0 | 2 | 0 | 4700 | 4196 | 3 | 11 |
| ## 366 | 1 | 0 | 2 | 0 | 16920 | 10264 | 3 | 1 |
| ## 367 | 1 | 0 | 0 | 6 | 19410 | 0 | 0 | 11 |
| ## 368 | 1 | 0 | 0 | 11 | 11590 | 4383 | 4 | 11 |
| ## 369 | 1 | 0 | 3 | 16 | 30050 | 13182 | 1 | 9 |
| ## 370 | 1 | 0 | 0 | 9 | 13270 | 4740 | 2 | 6 |
| ## 373 | 1 | 0 | 4 | 9 | 23270 | 4567 | 1 | 9 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 374 | 1 | 0 | 0 | 11 | 20660 | 2299 | 3 | 20 |
| ## 375 | 1 | 0 | 0 | 6 | 23360 | 0 | 0 | 1 |
| ## 376 | 1 | 0 | 0 | 12 | 10980 | 0 | 0 | 8 |
| ## 377 | 1 | 0 | 3 | 15 | 19090 | 38774 | 2 | 12 |
| ## 378 | 1 | 0 | 0 | 7 | 27590 | 0 | 0 | 14 |
| ## 380 | 1 | 0 | 2 | 16 | 15940 | 17963 | 1 | 1 |
| ## 381 | 1 | 0 | 0 | 12 | 22070 | 0 | 0 | 11 |
| ## 383 | 1 | 0 | 0 | 9 | 19310 | 27959 | 1 | 1 |
| ## 384 | 1 | 1 | 2 | 16 | 33960 | 1200 | 2 | 1 |
| ## 385 | 1 | 0 | 0 | 4 | 13830 | 6556 | 3 | 1 |
| ## 386 | 1 | 0 | 0 | 13 | 35990 | 0 | 0 | 17 |
| ## 387 | 1 | 0 | 0 | 10 | 27620 | 0 | 0 | 6 |
| ## 388 | 1 | 0 | 4 | 12 | 21760 | 9533 | 1 | 17 |
| ## 389 | 1 | 0 | 2 | 16 | 23690 | 9633 | 3 | 1 |
| ## 392 | 1 | 3 | 3 | 14 | 29170 | 0 | 0 | 11 |
| ## 393 | 1 | 0 | 0 | 0 | 12450 | 0 | 0 | 11 |
| ## 394 | 1 | 0 | 0 | 8 | 7920 | 1836 | 1 | 8 |
| ## 395 | 1 | 0 | 0 | 14 | 5200 | 48188 | 3 | 7 |
| ## 396 | 1 | 0 | 3 | 14 | 17200 | 0 | 0 | 1 |
| ## 397 | 1 | 0 | 0 | 0 | 6900 | 0 | 0 | 13 |
| ## 399 | 1 | 0 | 0 | 11 | 13810 | 5558 | 2 | 5 |
| ## 400 | 1 | 0 | 0 | 6 | 12820 | 0 | 0 | 1 |
| ## 402 | 1 | 0 | 3 | 15 | 2270 | 0 | 0 | 5 |
| ## 403 | 1 | 0 | 1 | 3 | 4200 | 3045 | 1 | 1 |
| ## 404 | 1 | 0 | 0 | 15 | 7110 | 0 | 0 | 1 |
| ## 405 | 1 | 0 | 0 | 11 | 12560 | 0 | 0 | 19 |
| ## 406 | 1 | 0 | 0 | 8 | 12700 | 22345 | 2 | 13 |
| ## 407 | 1 | 0 | 2 | 12 | 5020 | 1122 | 4 | 8 |
| ## 408 | 1 | 0 | 1 | 9 | 6390 | 8413 | 2 | 1 |
| ## 411 | 1 | 0 | 0 | 9 | 1500 | 8786 | 2 | 16 |
| ## 412 | 1 | 0 | 1 | 12 | 17130 | 0 | 0 | 14 |
| ## 413 | 1 | 0 | 0 | 10 | 24060 | 5608 | 2 | 6 |
| ## 414 | 1 | 0 | 0 | 12 | 27140 | 0 | 0 | 9 |
| ## 415 | 1 | 0 | 0 | 12 | 15820 | 5697 | 4 | 6 |
| ## 416 | 1 | 0 | 0 | 7 | 6720 | 3050 | 2 | 1 |
| ## 418 | 1 | 0 | 0 | 8 | 21690 | 11742 | 3 | 8 |
| ## 419 | 1 | 0 | 0 | 13 | 2690 | 0 | 0 | 1 |
| ## 421 | 1 | 0 | 0 | 0 | 6430 | 8376 | 1 | 12 |
| ## 422 | 1 | 1 | 2 | 11 | 5600 | 0 | 0 | 6 |
| ## 423 | 1 | 1 | 1 | 0 | 8660 | 0 | 0 | 1 |
| ## 424 | 1 | 0 | 1 | 8 | 10800 | 0 | 0 | 1 |
| ## 425 | 1 | 0 | 3 | 16 | 5840 | 6247 | 4 | 12 |
| ## 426 | 1 | 0 | 0 | 8 | 6960 | 10823 | 3 | 14 |
| ## 427 | 1 | 0 | 1 | 15 | 13140 | 5101 | 3 | 7 |
| ## 430 | 1 | 0 | 0 | 8 | 14180 | 3387 | 2 | 10 |
| ## 431 | 1 | 0 | 0 | 14 | 17500 | 0 | 0 | 7 |
| ## 432 | 1 | 0 | 0 | 11 | 12730 | 6984 | 2 | 8 |
| ## 433 | 1 | 0 | 0 | 8 | 1500 | 3331 | 1 | 1 |
| ## 434 | 1 | 1 | 1 | 12 | 11130 | 0 | 0 | 7 |
| ## 435 | 1 | 1 | 1 | 12 | 13220 | 0 | 0 | 8 |
| ## 437 | 1 | 0 | 2 | 14 | 9170 | 1881 | 1 | 7 |
| ## 438 | 1 | 0 | 0 | 8 | 7960 | 5002 | 1 | 1 |
| ## 440 | 1 | 0 | 0 | 13 | 19210 | 45254 | 2 | 13 |
| ## 441 | 1 | 0 | 0 | 11 | 19120 | 0 | 0 | 1 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 442 | 1 | 0 | 0 | 13 | 27710 | 0 | 0 | 1 |
| ## 443 | 1 | 0 | 0 | 10 | 6300 | 34506 | 3 | 1 |
| ## 444 | 1 | 0 | 2 | 0 | 8920 | 6031 | 2 | 5 |
| ## 445 | 1 | 0 | 4 | 0 | 5080 | 7784 | 1 | 6 |
| ## 446 | 1 | 0 | 0 | 11 | 7530 | 6566 | 2 | 5 |
| ## 449 | 1 | 0 | 0 | 13 | 15280 | 2487 | 1 | 19 |
| ## 450 | 1 | 0 | 0 | 13 | 12610 | 5219 | 3 | 11 |
| ## 451 | 1 | 2 | 2 | 0 | 7100 | 0 | 0 | 9 |
| ## 452 | 1 | 0 | 0 | 12 | 7960 | 0 | 0 | 12 |
| ## 453 | 1 | 0 | 0 | 10 | 9800 | 5229 | 2 | 1 |
| ## 454 | 1 | 0 | 0 | 13 | 17380 | 0 | 0 | 4 |
| ## 456 | 1 | 0 | 1 | 9 | 19900 | 0 | 0 | 6 |
| ## 457 | 1 | 0 | 1 | 11 | 17890 | 0 | 0 | 7 |
| ## 459 | 1 | 1 | 4 | 16 | 11940 | 5326 | 2 | 14 |
| ## 460 | 1 | 0 | 3 | 14 | 4900 | 0 | 0 | 16 |
| ## 461 | 1 | 0 | 0 | 14 | 14920 | 0 | 0 | 11 |
| ## 462 | 1 | 2 | 3 | 0 | 5900 | 0 | 0 | 1 |
| ## 463 | 1 | 0 | 0 | 11 | 14080 | 0 | 0 | 1 |
| ## 464 | 1 | 0 | 0 | 10 | 5300 | 8342 | 1 | 8 |
| ## 465 | 1 | 0 | 2 | 10 | 4900 | 0 | 0 | 6 |
| ## 468 | 1 | 1 | 1 | 11 | 1950 | 30089 | 1 | 1 |
| ## 469 | 1 | 0 | 0 | 13 | 9730 | 41917 | 2 | 1 |
| ## 470 | 1 | 0 | 0 | 16 | 25010 | 39315 | 1 | 9 |
| ## 471 | 1 | 0 | 0 | 12 | 27330 | 0 | 0 | 14 |
| ## 472 | 1 | 0 | 0 | 12 | 11580 | 6712 | 1 | 12 |
| ## 473 | 1 | 0 | 1 | 13 | 9290 | 0 | 0 | 10 |
| ## 475 | 1 | 4 | 5 | 0 | 7920 | 5288 | 2 | 8 |
| ## 476 | 1 | 0 | 0 | 13 | 20800 | 0 | 0 | 5 |
| ## 478 | 1 | 0 | 3 | 12 | 7100 | 0 | 0 | 1 |
| ## 479 | 1 | 0 | 2 | 15 | 11640 | 0 | 0 | 1 |
| ## 480 | 1 | 0 | 1 | 0 | 4500 | 0 | 0 | 5 |
| ## 481 | 1 | 0 | 0 | 13 | 13920 | 3800 | 2 | 10 |
| ## 482 | 1 | 1 | 3 | 13 | 10650 | 27439 | 2 | 1 |
| ## 483 | 1 | 0 | 0 | 11 | 21460 | 1606 | 2 | 6 |
| ## 484 | 1 | 1 | 1 | 11 | 5600 | 37404 | 2 | 11 |
| ## 487 | 1 | 0 | 2 | 12 | 1500 | 3488 | 4 | 7 |
| ## 488 | 1 | 0 | 0 | 10 | 11600 | 0 | 0 | 1 |
| ## 489 | 1 | 0 | 1 | 14 | 12080 | 0 | 0 | 6 |
| ## 490 | 1 | 0 | 0 | 0 | 13440 | 5093 | 2 | 1 |
| ## 491 | 1 | 0 | 0 | 11 | 12910 | 0 | 0 | 6 |
| ## 492 | 1 | 0 | 3 | 0 | 4100 | 2621 | 2 | 8 |
| ## 494 | 1 | 1 | 1 | 8 | 25510 | 0 | 0 | 15 |
| ## 495 | 1 | 1 | 4 | 14 | 5490 | 1423 | 1 | 1 |
| ## 497 | 1 | 0 | 0 | 14 | 10700 | 0 | 0 | 1 |
| ## 498 | 1 | 1 | 1 | 11 | 16720 | 9851 | 3 | 10 |
| ## 499 | 1 | 0 | 0 | 0 | 11020 | 0 | 0 | 7 |
| ## 500 | 1 | 0 | 0 | 11 | 22070 | 0 | 0 | 1 |
| ## 501 | 1 | 0 | 0 | 12 | 9640 | 0 | 0 | 9 |
| ## 502 | 1 | 0 | 0 | 8 | 19820 | 0 | 0 | 7 |
| ## 503 | 1 | 0 | 0 | 14 | 25250 | 0 | 0 | 1 |
| ## 506 | 1 | 0 | 0 | 11 | 11170 | 0 | 0 | 8 |
| ## 507 | 1 | 0 | 0 | 10 | 6700 | 4824 | 3 | 11 |
| ## 508 | 1 | 1 | 2 | 15 | 15110 | 3795 | 3 | 12 |
| ## 509 | 1 | 0 | 0 | 4 | 7020 | 0 | 0 | 16 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 510 | 1 | 0 | 0 | 12 | 19920 | 0 | 0 | 11 |
| ## 511 | 1 | 0 | 0 | 15 | 12340 | 33089 | 3 | 4 |
| ## 513 | 1 | 0 | 2 | 13 | 4200 | 25081 | 2 | 1 |
| ## 514 | 1 | 0 | 0 | 0 | 6480 | 4400 | 1 | 8 |
| ## 516 | 1 | 2 | 2 | 0 | 5300 | 0 | 0 | 1 |
| ## 517 | 1 | 0 | 0 | 5 | 4780 | 2168 | 2 | 6 |
| ## 518 | 1 | 0 | 0 | 10 | 10360 | 7333 | 1 | 1 |
| ## 519 | 1 | 3 | 4 | 10 | 28870 | 1449 | 2 | 25 |
| ## 520 | 1 | 0 | 0 | 10 | 22010 | 31039 | 2 | 9 |
| ## 521 | 1 | 0 | 0 | 13 | 10260 | 7105 | 2 | 1 |
| ## 522 | 1 | 0 | 1 | 9 | 37720 | 0 | 0 | 1 |
| ## 525 | 1 | 0 | 3 | 16 | 5060 | 24208 | 1 | 1 |
| ## 526 | 1 | 0 | 3 | 11 | 9990 | 0 | 0 | 1 |
| ## 527 | 1 | 0 | 3 | 15 | 15270 | 0 | 0 | 16 |
| ## 528 | 1 | 1 | 1 | 7 | 27420 | 0 | 0 | 11 |
| ## 529 | 1 | 0 | 0 | 13 | 10060 | 8636 | 3 | 7 |
| ## 530 | 1 | 0 | 2 | 14 | 9840 | 3771 | 3 | 1 |
| ## 532 | 1 | 0 | 0 | 11 | 17020 | 4538 | 2 | 10 |
| ## 533 | 1 | 1 | 2 | 13 | 15500 | 8385 | 1 | 12 |
| ## 535 | 1 | 0 | 0 | 0 | 7500 | 8739 | 1 | 1 |
| ## 536 | 1 | 0 | 0 | 10 | 10770 | 9230 | 1 | 7 |
| ## 537 | 1 | 0 | 2 | 10 | 13670 | 4318 | 1 | 7 |
| ## 538 | 1 | 0 | 0 | 14 | 14860 | 0 | 0 | 9 |
| ## 539 | 1 | 3 | 3 | 10 | 9950 | 0 | 0 | 1 |
| ## 540 | 1 | 0 | 1 | 11 | 1500 | 0 | 0 | 7 |
| ## 541 | 1 | 0 | 0 | 11 | 7900 | 10942 | 2 | 11 |
| ## 544 | 1 | 0 | 0 | 9 | 11880 | 0 | 0 | 12 |
| ## 545 | 1 | 0 | 1 | 10 | 19680 | 0 | 0 | 17 |
| ## 546 | 1 | 0 | 1 | 11 | 17360 | 8153 | 1 | 1 |
| ## 547 | 1 | 0 | 0 | 0 | 41470 | 1797 | 3 | 13 |
| ## 548 | 1 | 0 | 0 | 11 | 14690 | 0 | 0 | 1 |
| ## 549 | 1 | 0 | 0 | 11 | 17000 | 0 | 0 | 14 |
| ## 551 | 1 | 0 | 0 | 10 | 18090 | 0 | 0 | 12 |
| ## 552 | 1 | 0 | 0 | 9 | 20330 | 0 | 0 | 1 |
| ## 554 | 1 | 0 | 0 | 9 | 17680 | 7274 | 3 | 18 |
| ## 555 | 1 | 0 | 0 | 7 | 11510 | 981 | 3 | 1 |
| ## 556 | 1 | 0 | 0 | 8 | 20770 | 0 | 0 | 19 |
| ## 557 | 1 | 0 | 0 | 10 | 17850 | 8579 | 2 | 7 |
| ## 558 | 1 | 0 | 1 | 12 | 4900 | 0 | 0 | 6 |
| ## 559 | 1 | 0 | 2 | 12 | 4000 | 23451 | 2 | 8 |
| ## 560 | 1 | 0 | 0 | 7 | 14500 | 9583 | 1 | 12 |
| ## 563 | 1 | 1 | 1 | 8 | 30790 | 11692 | 1 | 17 |
| ## 564 | 1 | 0 | 0 | 7 | 11180 | 4839 | 3 | 15 |
| ## 565 | 1 | 0 | 2 | 16 | 16400 | 0 | 0 | 1 |
| ## 566 | 1 | 0 | 1 | 14 | 12690 | 21525 | 2 | 1 |
| ## 567 | 1 | 0 | 1 | 0 | 10510 | 4422 | 3 | 1 |
| ## 568 | 1 | 0 | 0 | 11 | 13070 | 2932 | 3 | 13 |
| ## 570 | 1 | 0 | 0 | 10 | 8360 | 17775 | 2 | 11 |
| ## 571 | 1 | 0 | 3 | 5 | 4900 | 0 | 0 | 9 |
| ## 573 | 1 | 0 | 0 | 12 | 8510 | 0 | 0 | 1 |
| ## 574 | 1 | 0 | 0 | 7 | 15820 | 0 | 0 | 1 |
| ## 575 | 1 | 0 | 0 | 12 | 11120 | 30981 | 2 | 1 |
| ## 576 | 1 | 0 | 0 | 15 | 16800 | 1191 | 3 | 12 |
| ## 577 | 1 | 0 | 0 | 13 | 6080 | 25622 | 1 | 9 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 578 | 1 | 1 | 2 | 11 | 16780 | 3997 | 3 | 1 |
| ## 579 | 1 | 0 | 0 | 9 | 20410 | 0 | 0 | 8 |
| ## 582 | 1 | 0 | 4 | 12 | 1720 | 0 | 0 | 1 |
| ## 583 | 1 | 0 | 0 | 6 | 12850 | 5863 | 3 | 21 |
| ## 584 | 1 | 0 | 1 | 11 | 3770 | 5581 | 3 | 10 |
| ## 585 | 1 | 0 | 0 | 12 | 9580 | 4253 | 1 | 1 |
| ## 586 | 1 | 0 | 0 | 11 | 25700 | 0 | 0 | 1 |
| ## 587 | 1 | 0 | 0 | 8 | 9350 | 4265 | 1 | 10 |
| ## 589 | 1 | 0 | 0 | 11 | 8530 | 743 | 2 | 1 |
| ## 590 | 1 | 0 | 0 | 12 | 7410 | 0 | 0 | 11 |
| ## 592 | 1 | 0 | 0 | 14 | 20400 | 0 | 0 | 17 |
| ## 593 | 1 | 0 | 0 | 14 | 10060 | 4478 | 3 | 1 |
| ## 594 | 1 | 0 | 2 | 14 | 14340 | 7986 | 2 | 7 |
| ## 595 | 1 | 0 | 0 | 11 | 16940 | 0 | 0 | 17 |
| ## 596 | 1 | 0 | 0 | 12 | 5500 | 7756 | 2 | 20 |
| ## 597 | 1 | 0 | 0 | 0 | 5600 | 5020 | 3 | 11 |
| ## 598 | 1 | 0 | 0 | 14 | 8740 | 7153 | 1 | 5 |
| ## 601 | 1 | 0 | 0 | 15 | 18070 | 0 | 0 | 9 |
| ## 602 | 1 | 0 | 2 | 13 | 25830 | 31687 | 2 | 10 |
| ## 603 | 1 | 1 | 1 | 10 | 1500 | 0 | 0 | 15 |
| ## 604 | 1 | 0 | 0 | 0 | 29330 | 9512 | 2 | 1 |
| ## 605 | 1 | 0 | 0 | 9 | 9430 | 1524 | 1 | 12 |
| ## 606 | 1 | 0 | 0 | 13 | 21750 | 0 | 0 | 17 |
| ## 608 | 1 | 1 | 3 | 0 | 6580 | 0 | 0 | 1 |
| ## 609 | 1 | 0 | 0 | 9 | 11910 | 9868 | 1 | 18 |
| ## 611 | 1 | 3 | 3 | 14 | 9830 | 5957 | 3 | 19 |
| ## 612 | 1 | 0 | 0 | 12 | 13390 | 0 | 0 | 17 |
| ## 613 | 1 | 0 | 0 | 13 | 14760 | 0 | 0 | 5 |
| ## 614 | 1 | 3 | 3 | 12 | 21200 | 39717 | 3 | 1 |
| ## 615 | 1 | 0 | 3 | 16 | 16310 | 0 | 0 | 12 |
| ## 616 | 1 | 0 | 0 | 11 | 31210 | 6978 | 2 | 1 |
| ## 617 | 1 | 1 | 1 | 6 | 1500 | 25188 | 2 | 1 |
| ## 620 | 1 | 0 | 0 | 10 | 11370 | 21229 | 2 | 8 |
| ## 621 | 1 | 0 | 0 | 9 | 21190 | 3653 | 3 | 5 |
| ## 622 | 1 | 3 | 3 | 14 | 15310 | 6455 | 1 | 7 |
| ## 623 | 1 | 0 | 0 | 9 | 14920 | 3117 | 4 | 12 |
| ## 624 | 1 | 0 | 0 | 8 | 4600 | 0 | 0 | 1 |
| ## 625 | 1 | 0 | 0 | 10 | 31120 | 23078 | 2 | 15 |
| ## 627 | 1 | 0 | 0 | 13 | 6200 | 0 | 0 | 1 |
| ## 628 | 1 | 0 | 0 | 8 | 41570 | 10584 | 2 | 10 |
| ## 630 | 1 | 0 | 0 | 12 | 6600 | 0 | 0 | 1 |
| ## 631 | 1 | 0 | 1 | 12 | 24910 | 4317 | 1 | 5 |
| ## 632 | 1 | 0 | 0 | 14 | 7230 | 13102 | 2 | 9 |
| ## 633 | 1 | 0 | 0 | 0 | 19630 | 6061 | 2 | 1 |
| ## 634 | 1 | 3 | 3 | 13 | 28600 | 1858 | 4 | 7 |
| ## 635 | 1 | 0 | 0 | 0 | 5900 | 33385 | 2 | 1 |
| ## 636 | 1 | 1 | 1 | 10 | 18050 | 3728 | 1 | 1 |
| ## 639 | 1 | 0 | 0 | 11 | 9620 | 7414 | 1 | 8 |
| ## 640 | 1 | 0 | 0 | 7 | 21460 | 0 | 0 | 7 |
| ## 641 | 1 | 0 | 0 | 15 | 10000 | 0 | 0 | 23 |
| ## 642 | 1 | 0 | 2 | 0 | 4500 | 0 | 0 | 8 |
| ## 643 | 1 | 0 | 0 | 9 | 18730 | 32593 | 2 | 12 |
| ## 644 | 1 | 1 | 2 | 13 | 18910 | 0 | 0 | 9 |
| ## 646 | 1 | 0 | 0 | 10 | 19300 | 7291 | 2 | 13 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 647 | 1 | 1 | 1 | 10 | 11550 | 43863 | 1 | 12 |
| ## 649 | 1 | 0 | 1 | 10 | 10650 | 32044 | 1 | 8 |
| ## 650 | 1 | 0 | 3 | 0 | 4800 | 0 | 0 | 1 |
| ## 651 | 1 | 1 | 2 | 13 | 9200 | 3255 | 1 | 1 |
| ## 652 | 1 | 0 | 1 | 10 | 6190 | 5900 | 1 | 1 |
| ## 653 | 1 | 0 | 2 | 14 | 13200 | 0 | 0 | 1 |
| ## 654 | 1 | 0 | 0 | 11 | 26180 | 3090 | 2 | 1 |
| ## 655 | 1 | 0 | 0 | 11 | 12270 | 5722 | 2 | 1 |
| ## 658 | 1 | 0 | 3 | 0 | 15990 | 0 | 0 | 6 |
| ## 659 | 1 | 0 | 1 | 0 | 1500 | 0 | 0 | 1 |
| ## 660 | 1 | 0 | 2 | 11 | 6790 | 16816 | 1 | 7 |
| ## 661 | 1 | 1 | 2 | 11 | 22230 | 10064 | 2 | 21 |
| ## 662 | 1 | 0 | 0 | 8 | 14350 | 0 | 0 | 16 |
| ## 663 | 1 | 0 | 0 | 12 | 9370 | 37412 | 1 | 1 |
| ## 665 | 1 | 0 | 0 | 5 | 5480 | 6350 | 1 | 1 |
| ## 666 | 1 | 0 | 0 | 9 | 24920 | 6902 | 1 | 11 |
| ## 668 | 1 | 0 | 0 | 17 | 15960 | 0 | 0 | 14 |
| ## 669 | 1 | 0 | 0 | 13 | 15360 | 0 | 0 | 5 |
| ## 670 | 1 | 1 | 2 | 12 | 14650 | 0 | 0 | 1 |
| ## 671 | 1 | 0 | 0 | 12 | 11700 | 712 | 1 | 8 |
| ## 672 | 1 | 2 | 3 | 14 | 10460 | 0 | 0 | 6 |
| ## 673 | 1 | 0 | 0 | 13 | 17290 | 46761 | 1 | 5 |
| ## 674 | 1 | 0 | 0 | 3 | 20860 | 6038 | 1 | 12 |
| ## 677 | 1 | 0 | 0 | 9 | 25640 | 0 | 0 | 1 |
| ## 678 | 1 | 0 | 0 | 8 | 18400 | 0 | 0 | 9 |
| ## 679 | 1 | 0 | 0 | 12 | 37550 | 0 | 0 | 14 |
| ## 680 | 1 | 2 | 2 | 7 | 24730 | 0 | 0 | 12 |
| ## 681 | 1 | 0 | 3 | 15 | 11470 | 2248 | 3 | 8 |
| ## 682 | 1 | 0 | 1 | 11 | 13030 | 0 | 0 | 6 |
| ## 684 | 1 | 0 | 1 | 12 | 15110 | 0 | 0 | 1 |
| ## 685 | 1 | 1 | 2 | 11 | 9390 | 0 | 0 | 1 |
| ## 687 | 1 | 1 | 2 | 0 | 5920 | 0 | 0 | 6 |
| ## 688 | 1 | 2 | 3 | 8 | 5400 | 0 | 0 | 15 |
| ## 689 | 1 | 0 | 1 | 12 | 8900 | 0 | 0 | 1 |
| ## 690 | 1 | 0 | 2 | 12 | 1500 | 0 | 0 | 1 |
| ## 691 | 1 | 0 | 0 | 0 | 4230 | 0 | 0 | 7 |
| ## 692 | 1 | 0 | 0 | 15 | 11250 | 8057 | 2 | 6 |
| ## 693 | 1 | 2 | 3 | 16 | 15750 | 0 | 0 | 7 |
| ## 696 | 1 | 0 | 2 | 0 | 1500 | 3564 | 2 | 10 |
| ## 697 | 1 | 0 | 0 | 9 | 13460 | 7250 | 3 | 5 |
| ## 698 | 1 | 0 | 0 | 14 | 17450 | 0 | 0 | 8 |
| ## 699 | 1 | 0 | 0 | 13 | 18240 | 6863 | 1 | 1 |
| ## 700 | 1 | 0 | 0 | 14 | 15570 | 3636 | 3 | 1 |
| ## 701 | 1 | 0 | 3 | 12 | 7130 | 0 | 0 | 1 |
| ## 703 | 1 | 1 | 1 | 9 | 20800 | 27444 | 1 | 9 |
| ## 704 | 1 | 1 | 2 | 8 | 10700 | 0 | 0 | 9 |
| ## 706 | 1 | 0 | 0 | 9 | 26570 | 0 | 0 | 15 |
| ## 707 | 1 | 0 | 3 | 11 | 9610 | 2468 | 1 | 1 |
| ## 708 | 1 | 0 | 0 | 8 | 11530 | 2333 | 4 | 9 |
| ## 709 | 1 | 1 | 2 | 15 | 31540 | 0 | 0 | 1 |
| ## 710 | 1 | 0 | 0 | 10 | 13070 | 7999 | 2 | 4 |
| ## 711 | 1 | 0 | 0 | 11 | 23780 | 7367 | 1 | 13 |
| ## 712 | 1 | 0 | 1 | 11 | 22000 | 5396 | 2 | 7 |
| ## 715 | 1 | 2 | 2 | 15 | 24180 | 10877 | 1 | 25 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 716 | 1 | 0 | 0 | 13 | 10730 | 0 | 0 | 14 |
| ## 717 | 1 | 0 | 0 | 14 | 8800 | 3338 | 3 | 20 |
| ## 718 | 1 | 0 | 2 | 13 | 4850 | 0 | 0 | 1 |
| ## 719 | 1 | 1 | 2 | 11 | 1500 | 0 | 0 | 1 |
| ## 720 | 1 | 0 | 1 | 0 | 5000 | 5456 | 3 | 9 |
| ## 722 | 1 | 0 | 0 | 15 | 14670 | 0 | 0 | 1 |
| ## 723 | 1 | 0 | 0 | 12 | 12090 | 10024 | 2 | 1 |
| ## 725 | 1 | 2 | 3 | 14 | 26940 | 0 | 0 | 11 |
| ## 726 | 1 | 0 | 0 | 0 | 6900 | 42642 | 1 | 1 |
| ## 727 | 1 | 3 | 3 | 0 | 5800 | 0 | 0 | 11 |
| ## 728 | 1 | 0 | 0 | 15 | 16080 | 5935 | 1 | 1 |
| ## 729 | 1 | 0 | 0 | 11 | 19960 | 8306 | 3 | 18 |
| ## 730 | 1 | 0 | 1 | 14 | 10490 | 41137 | 1 | 11 |
| ## 731 | 1 | 0 | 0 | 14 | 48380 | 0 | 0 | 20 |
| ## 734 | 1 | 0 | 3 | 14 | 12580 | 0 | 0 | 1 |
| ## 735 | 1 | 0 | 0 | 10 | 14310 | 8013 | 1 | 18 |
| ## 736 | 1 | 1 | 3 | 10 | 3440 | 6986 | 3 | 14 |
| ## 737 | 1 | 0 | 1 | 0 | 21620 | 6259 | 1 | 1 |
| ## 738 | 1 | 0 | 0 | 8 | 21930 | 6413 | 2 | 19 |
| ## 739 | 1 | 0 | 1 | 9 | 26370 | 0 | 0 | 3 |
| ## 741 | 1 | 0 | 0 | 10 | 5600 | 0 | 0 | 10 |
| ## 742 | 1 | 0 | 0 | 13 | 27570 | 1451 | 4 | 1 |
| ## 744 | 1 | 0 | 0 | 10 | 23630 | 8599 | 3 | 13 |
| ## 745 | 1 | 0 | 0 | 4 | 1500 | 8618 | 4 | 1 |
| ## 746 | 1 | 1 | 3 | 0 | 6410 | 0 | 0 | 1 |
| ## 747 | 1 | 0 | 0 | 9 | 6620 | 3627 | 1 | 1 |
| ## 748 | 1 | 0 | 0 | 11 | 7060 | 1757 | 2 | 6 |
| ## 749 | 1 | 0 | 2 | 10 | 6750 | 582 | 3 | 10 |
| ## 750 | 1 | 0 | 1 | 0 | 1500 | 6755 | 2 | 1 |
| ## 753 | 1 | 0 | 0 | 11 | 18000 | 4263 | 1 | 1 |
| ## 754 | 1 | 0 | 0 | 14 | 18150 | 1380 | 3 | 10 |
| ## 755 | 1 | 0 | 0 | 13 | 10830 | 6170 | 2 | 10 |
| ## 756 | 1 | 0 | 0 | 0 | 5990 | 0 | 0 | 1 |
| ## 757 | 1 | 0 | 0 | 11 | 7180 | 0 | 0 | 10 |
| ## 758 | 1 | 0 | 0 | 12 | 3320 | 7499 | 2 | 7 |
| ## 760 | 1 | 0 | 1 | 11 | 34880 | 46912 | 1 | 9 |
| ## 761 | 1 | 0 | 2 | 13 | 11010 | 3603 | 1 | 6 |
| ## 763 | 1 | 0 | 3 | 17 | 8580 | 1143 | 1 | 7 |
| ## 764 | 1 | 0 | 1 | 8 | 14460 | 31073 | 1 | 1 |
| ## 765 | 1 | 0 | 1 | 10 | 5760 | 3409 | 2 | 10 |
| ## 766 | 1 | 0 | 3 | 6 | 4380 | 11027 | 3 | 16 |
| ## 767 | 1 | 0 | 2 | 19 | 17790 | 0 | 0 | 1 |
| ## 768 | 1 | 2 | 3 | 12 | 8030 | 0 | 0 | 1 |
| ## 769 | 1 | 0 | 0 | 0 | 13890 | 1501 | 1 | 4 |
| ## 772 | 1 | 0 | 0 | 8 | 7510 | 0 | 0 | 9 |
| ## 773 | 1 | 0 | 0 | 14 | 17280 | 0 | 0 | 18 |
| ## 774 | 1 | 0 | 1 | 11 | 20090 | 0 | 0 | 1 |
| ## 775 | 1 | 0 | 0 | 10 | 4500 | 6351 | 4 | 8 |
| ## 776 | 1 | 2 | 2 | 10 | 9670 | 2412 | 2 | 10 |
| ## 777 | 1 | 2 | 3 | 8 | 30190 | 0 | 0 | 8 |
| ## 779 | 1 | 0 | 0 | 10 | 23620 | 0 | 0 | 13 |
| ## 780 | 1 | 0 | 0 | 11 | 5950 | 48010 | 2 | 5 |
| ## 782 | 1 | 0 | 0 | 10 | 19430 | 0 | 0 | 7 |
| ## 783 | 1 | 0 | 4 | 14 | 15050 | 3246 | 2 | 2 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 784 | 1 | 0 | 0 | 10 | 6700 | 0 | 0 | 1 |
| ## 785 | 1 | 0 | 3 | 17 | 8030 | 9937 | 3 | 11 |
| ## 786 | 1 | 0 | 1 | 13 | 16260 | 3416 | 4 | 4 |
| ## 787 | 1 | 0 | 3 | 12 | 9720 | 0 | 0 | 13 |
| ## 788 | 1 | 0 | 0 | 11 | 27210 | 1372 | 2 | 1 |
| ## 791 | 1 | 0 | 0 | 14 | 12780 | 5244 | 1 | 10 |
| ## 792 | 1 | 0 | 0 | 13 | 22620 | 4497 | 3 | 12 |
| ## 793 | 1 | 0 | 0 | 9 | 26010 | 0 | 0 | 7 |
| ## 794 | 1 | 0 | 0 | 0 | 14900 | 0 | 0 | 11 |
| ## 795 | 1 | 0 | 0 | 13 | 9860 | 0 | 0 | 7 |
| ## 796 | 1 | 0 | 2 | 0 | 3180 | 25235 | 1 | 13 |
| ## 798 | 1 | 0 | 0 | 5 | 3870 | 3608 | 4 | 1 |
| ## 799 | 1 | 0 | 0 | 15 | 10800 | 7378 | 1 | 4 |
| ## 801 | 1 | 2 | 2 | 10 | 15480 | 0 | 0 | 14 |
| ## 802 | 1 | 0 | 0 | 3 | 11380 | 0 | 0 | 1 |
| ## 803 | 1 | 3 | 4 | 10 | 19810 | 0 | 0 | 8 |
| ## 804 | 1 | 0 | 4 | 0 | 20430 | 0 | 0 | 1 |
| ## 805 | 1 | 0 | 2 | 11 | 3640 | 8037 | 2 | 1 |
| ## 806 | 1 | 0 | 0 | 13 | 11360 | 0 | 0 | 9 |
| ## 807 | 1 | 1 | 2 | 8 | 19880 | 0 | 0 | 13 |
| ## 810 | 1 | 0 | 0 | 14 | 9540 | 0 | 0 | 7 |
| ## 811 | 1 | 0 | 0 | 11 | 10550 | 6730 | 2 | 16 |
| ## 812 | 1 | 2 | 2 | 13 | 11950 | 0 | 0 | 1 |
| ## 813 | 1 | 0 | 1 | 3 | 18250 | 2039 | 2 | 9 |
| ## 814 | 1 | 0 | 3 | 15 | 9130 | 3922 | 1 | 7 |
| ## 815 | 1 | 3 | 3 | 0 | 5800 | 5820 | 3 | 1 |
| ## 817 | 1 | 0 | 3 | 11 | 12950 | 0 | 0 | 1 |
| ## 818 | 1 | 0 | 0 | 12 | 62240 | 0 | 0 | 14 |
| ## 820 | 1 | 0 | 2 | 13 | 12460 | 0 | 0 | 7 |
| ## 821 | 1 | 0 | 0 | 13 | 17930 | 4824 | 2 | 1 |
| ## 822 | 1 | 0 | 3 | 14 | 7390 | 0 | 0 | 6 |
| ## 823 | 1 | 0 | 2 | 17 | 14810 | 0 | 0 | 8 |
| ## 824 | 1 | 0 | 0 | 9 | 9470 | 35070 | 2 | 11 |
| ## 825 | 1 | 0 | 0 | 11 | 11900 | 0 | 0 | 1 |
| ## 826 | 1 | 1 | 1 | 11 | 26620 | 3950 | 3 | 1 |
| ## 829 | 1 | 0 | 1 | 0 | 22160 | 11132 | 2 | 8 |
| ## 830 | 1 | 0 | 0 | 5 | 14870 | 5817 | 2 | 9 |
| ## 831 | 1 | 0 | 0 | 11 | 22610 | 812 | 1 | 1 |
| ## 832 | 1 | 0 | 0 | 8 | 5100 | 0 | 0 | 12 |
| ## 833 | 1 | 0 | 1 | 10 | 24630 | 24546 | 1 | 5 |
| ## 834 | 1 | 0 | 3 | 8 | 24050 | 0 | 0 | 1 |
| ## 836 | 1 | 0 | 0 | 11 | 16350 | 8692 | 2 | 16 |
| ## 837 | 1 | 0 | 0 | 0 | 5600 | 0 | 0 | 9 |
| ## 839 | 1 | 0 | 0 | 0 | 12140 | 0 | 0 | 1 |
| ## 840 | 1 | 0 | 0 | 5 | 12560 | 0 | 0 | 1 |
| ## 841 | 1 | 0 | 0 | 0 | 5800 | 0 | 0 | 1 |
| ## 842 | 1 | 3 | 4 | 13 | 10060 | 27746 | 4 | 7 |
| ## 843 | 1 | 0 | 0 | 11 | 16970 | 0 | 0 | 9 |
| ## 844 | 1 | 0 | 0 | 0 | 6570 | 0 | 0 | 1 |
| ## 845 | 1 | 0 | 1 | 7 | 4960 | 0 | 0 | 8 |
| ## 848 | 1 | 0 | 0 | 0 | 12790 | 4514 | 4 | 18 |
| ## 849 | 1 | 1 | 3 | 5 | 20630 | 6870 | 2 | 8 |
| ## 850 | 1 | 0 | 2 | 10 | 4210 | 0 | 0 | 5 |
| ## 851 | 1 | 0 | 0 | 6 | 12720 | 0 | 0 | 1 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 852 | 1 | 0 | 3 | 0 | 5800 | 8566 | 2 | 1 |
| ## 853 | 1 | 0 | 0 | 17 | 5340 | 7108 | 2 | 1 |
| ## 855 | 1 | 0 | 1 | 13 | 14360 | 0 | 0 | 1 |
| ## 856 | 1 | 0 | 0 | 11 | 10510 | 38190 | 2 | 12 |
| ## 858 | 1 | 0 | 0 | 12 | 18200 | 8375 | 1 | 10 |
| ## 859 | 1 | 0 | 4 | 14 | 20280 | 4162 | 3 | 9 |
| ## 860 | 1 | 0 | 0 | 13 | 15690 | 0 | 0 | 1 |
| ## 861 | 1 | 0 | 0 | 8 | 28000 | 0 | 0 | 6 |
| ## 862 | 1 | 0 | 3 | 14 | 9290 | 4567 | 3 | 1 |
| ## 863 | 1 | 0 | 0 | 12 | 11300 | 2159 | 1 | 9 |
| ## 864 | 1 | 0 | 0 | 10 | 5700 | 0 | 0 | 8 |
| ## 867 | 1 | 1 | 1 | 12 | 11020 | 0 | 0 | 5 |
| ## 868 | 1 | 0 | 0 | 8 | 15570 | 4734 | 2 | 7 |
| ## 869 | 1 | 0 | 1 | 9 | 23910 | 548 | 2 | 12 |
| ## 870 | 1 | 1 | 2 | 14 | 3950 | 0 | 0 | 9 |
| ## 871 | 1 | 0 | 1 | 17 | 6710 | 3545 | 2 | 1 |
| ## 872 | 1 | 0 | 2 | 12 | 14780 | 0 | 0 | 12 |
| ## 874 | 1 | 0 | 0 | 12 | 17980 | 0 | 0 | 16 |
| ## 875 | 1 | 0 | 0 | 12 | 23350 | 0 | 0 | 10 |
| ## 877 | 1 | 0 | 0 | 12 | 18330 | 6690 | 2 | 9 |
| ## 878 | 1 | 1 | 3 | 10 | 15860 | 29536 | 2 | 1 |
| ## 879 | 1 | 0 | 0 | 11 | 10900 | 0 | 0 | 1 |
| ## 880 | 1 | 0 | 0 | 12 | 11030 | 32922 | 3 | 4 |
| ## 881 | 1 | 0 | 2 | 7 | 16320 | 4352 | 3 | 8 |
| ## 882 | 1 | 0 | 0 | 12 | 20360 | 6710 | 1 | 16 |
| ## 883 | 1 | 0 | 0 | 11 | 20690 | 14915 | 1 | 4 |
| ## 886 | 1 | 0 | 2 | 12 | 21480 | 0 | 0 | 17 |
| ## 887 | 1 | 0 | 0 | 15 | 34310 | 4423 | 2 | 12 |
| ## 888 | 1 | 0 | 0 | 8 | 16480 | 2775 | 3 | 1 |
| ## 889 | 1 | 0 | 2 | 15 | 18500 | 7014 | 2 | 11 |
| ## 890 | 1 | 0 | 3 | 16 | 8090 | 4402 | 2 | 1 |
| ## 891 | 1 | 0 | 0 | 13 | 13540 | 10941 | 2 | 20 |
| ## 893 | 1 | 0 | 0 | 0 | 12280 | 7070 | 1 | 10 |
| ## 894 | 1 | 0 | 4 | 15 | 7760 | 3327 | 2 | 11 |
| ## 896 | 1 | 0 | 2 | 14 | 16150 | 6135 | 2 | 6 |
| ## 897 | 1 | 0 | 0 | 13 | 9050 | 974 | 3 | 6 |
| ## 898 | 1 | 0 | 0 | 0 | 17700 | 0 | 0 | 12 |
| ## 899 | 1 | 2 | 2 | 8 | 10850 | 5810 | 3 | 8 |
| ## 900 | 1 | 0 | 1 | 12 | 16980 | 4185 | 3 | 1 |
| ## 901 | 1 | 0 | 0 | 14 | 14300 | 7341 | 1 | 4 |
| ## 902 | 1 | 0 | 0 | 9 | 6400 | 0 | 0 | 1 |
| ## 905 | 1 | 1 | 3 | 16 | 1500 | 0 | 0 | 16 |
| ## 906 | 1 | 0 | 2 | 14 | 9960 | 0 | 0 | 7 |
| ## 907 | 1 | 0 | 0 | 7 | 10190 | 0 | 0 | 8 |
| ## 908 | 1 | 0 | 0 | 13 | 7250 | 0 | 0 | 6 |
| ## 909 | 1 | 0 | 0 | 0 | 24020 | 0 | 0 | 15 |
| ## 910 | 1 | 0 | 1 | 8 | 16500 | 0 | 0 | 6 |
| ## 912 | 1 | 0 | 0 | 14 | 14520 | 0 | 0 | 6 |
| ## 913 | 1 | 2 | 2 | 15 | 21020 | 0 | 0 | 1 |
| ## 915 | 1 | 0 | 3 | 12 | 20770 | 0 | 0 | 1 |
| ## 916 | 1 | 0 | 0 | 9 | 19960 | 3960 | 4 | 9 |
| ## 917 | 1 | 0 | 3 | 12 | 4700 | 0 | 0 | 11 |
| ## 918 | 1 | 0 | 1 | 0 | 4120 | 0 | 0 | 6 |
| ## 919 | 1 | 0 | 2 | 12 | 6360 | 0 | 0 | 5 |

| | | | | | | | | |
|--------|---|---|---|----|-------|-------|---|----|
| ## 920 | 1 | 0 | 3 | 14 | 6970 | 0 | 0 | 5 |
| ## 921 | 1 | 0 | 0 | 11 | 14880 | 0 | 0 | 1 |
| ## 924 | 1 | 0 | 1 | 0 | 9270 | 0 | 0 | 10 |
| ## 925 | 1 | 2 | 3 | 9 | 12510 | 0 | 0 | 1 |
| ## 926 | 1 | 0 | 0 | 11 | 18150 | 0 | 0 | 1 |
| ## 927 | 1 | 1 | 2 | 13 | 31960 | 5827 | 3 | 7 |
| ## 928 | 1 | 0 | 0 | 7 | 18270 | 6856 | 1 | 6 |
| ## 929 | 1 | 0 | 0 | 13 | 14330 | 3977 | 3 | 13 |
| ## 931 | 1 | 0 | 0 | 11 | 10930 | 0 | 0 | 1 |
| ## 932 | 1 | 0 | 0 | 14 | 10300 | 5236 | 2 | 6 |
| ## 934 | 1 | 2 | 3 | 15 | 11760 | 11528 | 4 | 16 |
| ## 935 | 1 | 0 | 2 | 0 | 5800 | 5767 | 1 | 6 |
| ## 936 | 1 | 2 | 3 | 13 | 6420 | 8183 | 2 | 1 |
| ## 937 | 1 | 0 | 0 | 13 | 3030 | 0 | 0 | 1 |
| ## 938 | 1 | 0 | 0 | 11 | 11210 | 7759 | 2 | 6 |
| ## 939 | 1 | 3 | 3 | 17 | 14990 | 3826 | 2 | 1 |
| ## 940 | 1 | 1 | 1 | 13 | 7660 | 0 | 0 | 1 |
| ## 943 | 1 | 0 | 3 | 15 | 2440 | 31992 | 1 | 1 |
| ## 944 | 1 | 0 | 0 | 0 | 6200 | 4754 | 2 | 1 |
| ## 945 | 1 | 0 | 1 | 11 | 10440 | 2018 | 3 | 8 |
| ## 946 | 1 | 0 | 1 | 10 | 8260 | 0 | 0 | 1 |
| ## 947 | 1 | 0 | 0 | 10 | 1500 | 2154 | 3 | 1 |
| ## 948 | 1 | 0 | 2 | 12 | 8450 | 2210 | 2 | 5 |
| ## 950 | 1 | 4 | 5 | 0 | 12000 | 0 | 0 | 1 |
| ## 951 | 1 | 0 | 4 | 0 | 4300 | 6905 | 1 | 13 |
| ## 953 | 1 | 0 | 3 | 10 | 25660 | 0 | 0 | 12 |
| ## 954 | 1 | 1 | 2 | 10 | 17290 | 0 | 0 | 18 |
| ## 955 | 1 | 0 | 0 | 9 | 19990 | 0 | 0 | 7 |
| ## 956 | 1 | 0 | 2 | 13 | 17740 | 4500 | 2 | 9 |
| ## 957 | 1 | 0 | 2 | 0 | 11990 | 6867 | 3 | 10 |
| ## 958 | 1 | 0 | 0 | 13 | 21180 | 9637 | 2 | 18 |
| ## 959 | 1 | 0 | 0 | 8 | 2670 | 0 | 0 | 8 |
| ## 962 | 1 | 1 | 3 | 13 | 12760 | 4895 | 2 | 8 |
| ## 963 | 1 | 0 | 0 | 9 | 7000 | 1815 | 4 | 11 |
| ## 964 | 1 | 0 | 0 | 10 | 9540 | 0 | 0 | 1 |
| ## 965 | 1 | 1 | 1 | 13 | 17600 | 5336 | 2 | 1 |
| ## 966 | 1 | 0 | 0 | 12 | 12070 | 597 | 1 | 8 |
| ## 967 | 1 | 0 | 1 | 8 | 25530 | 0 | 0 | 5 |
| ## 969 | 1 | 0 | 0 | 11 | 20100 | 2104 | 3 | 10 |
| ## 970 | 1 | 0 | 0 | 10 | 23140 | 21481 | 4 | 1 |
| ## 972 | 1 | 0 | 1 | 11 | 11840 | 5726 | 2 | 11 |
| ## 973 | 1 | 0 | 0 | 6 | 32040 | 8748 | 2 | 1 |
| ## 974 | 1 | 0 | 0 | 8 | 15360 | 0 | 0 | 7 |
| ## 975 | 1 | 0 | 0 | 13 | 1500 | 57037 | 1 | 11 |
| ## 976 | 1 | 0 | 2 | 0 | 10090 | 6753 | 1 | 6 |
| ## 977 | 1 | 0 | 0 | 15 | 9390 | 10138 | 2 | 15 |
| ## 978 | 1 | 1 | 2 | 0 | 10930 | 0 | 0 | 8 |
| ## 981 | 1 | 0 | 0 | 9 | 27120 | 642 | 2 | 10 |
| ## 982 | 1 | 0 | 1 | 10 | 5200 | 3068 | 2 | 1 |
| ## 983 | 1 | 0 | 0 | 12 | 18080 | 0 | 0 | 1 |
| ## 984 | 1 | 0 | 0 | 13 | 14770 | 0 | 0 | 1 |
| ## 985 | 1 | 0 | 0 | 10 | 15980 | 0 | 0 | 15 |
| ## 986 | 1 | 0 | 0 | 13 | 14730 | 0 | 0 | 17 |
| ## 988 | 1 | 0 | 0 | 0 | 20710 | 8956 | 2 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 989 | 1 | 0 | 0 | 9 | 17940 | 0 | 0 | 1 |
| ## 991 | 1 | 2 | 3 | 14 | 17450 | 0 | 0 | 1 |
| ## 992 | 1 | 2 | 2 | 13 | 9980 | 6321 | 3 | 8 |
| ## 993 | 1 | 0 | 2 | 16 | 19300 | 5909 | 3 | 1 |
| ## 994 | 1 | 0 | 0 | 10 | 10410 | 0 | 0 | 7 |
| ## 995 | 1 | 0 | 1 | 11 | 5200 | 2605 | 1 | 9 |
| ## 996 | 1 | 0 | 0 | 0 | 5200 | 0 | 0 | 1 |
| ## 997 | 1 | 0 | 1 | 9 | 12780 | 0 | 0 | 1 |
| ## 1000 | 1 | 0 | 0 | 11 | 15330 | 7238 | 3 | 7 |
| ## 1001 | 1 | 0 | 0 | 9 | 13120 | 0 | 0 | 6 |
| ## 1002 | 1 | 1 | 2 | 0 | 8270 | 4765 | 2 | 8 |
| ## 1003 | 1 | 3 | 3 | 0 | 5700 | 0 | 0 | 1 |
| ## 1004 | 1 | 1 | 2 | 9 | 9630 | 49148 | 2 | 8 |
| ## 1005 | 1 | 0 | 0 | 6 | 14080 | 0 | 0 | 1 |
| ## 1007 | 1 | 0 | 3 | 13 | 11190 | 0 | 0 | 9 |
| ## 1008 | 1 | 0 | 0 | 13 | 7200 | 0 | 0 | 1 |
| ## 1010 | 1 | 0 | 0 | 14 | 3790 | 7285 | 1 | 20 |
| ## 1011 | 1 | 0 | 0 | 6 | 28740 | 0 | 0 | 12 |
| ## 1012 | 1 | 0 | 0 | 6 | 7300 | 34123 | 2 | 7 |
| ## 1013 | 1 | 0 | 0 | 0 | 1500 | 6745 | 3 | 7 |
| ## 1014 | 1 | 0 | 0 | 12 | 5930 | 977 | 3 | 5 |
| ## 1015 | 1 | 0 | 0 | 9 | 18540 | 0 | 0 | 10 |
| ## 1016 | 1 | 0 | 1 | 0 | 1500 | 9516 | 3 | 8 |
| ## 1019 | 1 | 0 | 0 | 0 | 25280 | 0 | 0 | 11 |
| ## 1020 | 1 | 0 | 0 | 0 | 12240 | 5093 | 2 | 5 |
| ## 1021 | 1 | 0 | 0 | 12 | 6500 | 3108 | 3 | 1 |
| ## 1022 | 1 | 0 | 0 | 10 | 25760 | 4094 | 1 | 12 |
| ## 1023 | 1 | 0 | 1 | 0 | 5400 | 0 | 0 | 10 |
| ## 1024 | 1 | 0 | 0 | 6 | 26810 | 1249 | 2 | 7 |
| ## 1026 | 1 | 0 | 0 | 12 | 12580 | 0 | 0 | 15 |
| ## 1027 | 1 | 0 | 2 | 10 | 10780 | 31557 | 4 | 10 |
| ## 1029 | 1 | 0 | 0 | 12 | 7720 | 7326 | 1 | 9 |
| ## 1030 | 1 | 1 | 2 | 8 | 8270 | 1944 | 2 | 2 |
| ## 1031 | 1 | 0 | 0 | 12 | 6720 | 0 | 0 | 9 |
| ## 1032 | 1 | 0 | 0 | 10 | 6000 | 0 | 0 | 1 |
| ## 1033 | 1 | 0 | 0 | 6 | 9930 | 0 | 0 | 7 |
| ## 1034 | 1 | 1 | 2 | 9 | 19090 | 2279 | 1 | 1 |
| ## 1035 | 1 | 0 | 1 | 7 | 4300 | 4448 | 3 | 1 |
| ## 1038 | 1 | 1 | 2 | 12 | 4010 | 2244 | 2 | 1 |
| ## 1039 | 1 | 0 | 2 | 10 | 5740 | 6703 | 1 | 12 |
| ## 1040 | 1 | 0 | 0 | 12 | 11760 | 1328 | 1 | 1 |
| ## 1041 | 1 | 0 | 2 | 10 | 9290 | 9635 | 4 | 1 |
| ## 1042 | 1 | 0 | 0 | 11 | 7940 | 2939 | 2 | 15 |
| ## 1043 | 1 | 0 | 3 | 0 | 10460 | 0 | 0 | 18 |
| ## 1045 | 1 | 0 | 0 | 7 | 6200 | 43405 | 2 | 5 |
| ## 1046 | 1 | 1 | 0 | 12 | 9260 | 5458 | 1 | 17 |
| ## 1048 | 1 | 0 | 0 | 10 | 38240 | 0 | 0 | 14 |
| ## 1049 | 1 | 0 | 0 | 12 | 21010 | 0 | 0 | 12 |
| ## 1050 | 1 | 0 | 0 | 15 | 11550 | 5660 | 2 | 1 |
| ## 1051 | 1 | 0 | 0 | 10 | 29540 | 3848 | 1 | 11 |
| ## 1052 | 1 | 0 | 1 | 10 | 5680 | 0 | 0 | 8 |
| ## 1053 | 1 | 0 | 0 | 0 | 8200 | 6934 | 1 | 10 |
| ## 1054 | 1 | 2 | 2 | 15 | 14660 | 0 | 0 | 10 |
| ## 1057 | 1 | 0 | 0 | 8 | 6700 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1058 | 1 | 1 | 2 | 7 | 28840 | 0 | 0 | 13 |
| ## 1059 | 1 | 0 | 0 | 16 | 21740 | 0 | 0 | 7 |
| ## 1060 | 1 | 2 | 2 | 8 | 31380 | 0 | 0 | 19 |
| ## 1061 | 1 | 0 | 0 | 13 | 10350 | 2737 | 2 | 10 |
| ## 1062 | 1 | 0 | 3 | 12 | 8450 | 7262 | 2 | 1 |
| ## 1064 | 1 | 0 | 1 | 12 | 7860 | 8455 | 3 | 6 |
| ## 1065 | 1 | 0 | 1 | 0 | 14260 | 3460 | 3 | 5 |
| ## 1067 | 1 | 1 | 2 | 13 | 27770 | 6557 | 1 | 11 |
| ## 1068 | 1 | 0 | 0 | 12 | 21860 | 0 | 0 | 6 |
| ## 1069 | 1 | 0 | 4 | 14 | 19460 | 0 | 0 | 13 |
| ## 1070 | 1 | 0 | 3 | 9 | 10680 | 0 | 0 | 14 |
| ## 1071 | 1 | 3 | 0 | 10 | 5590 | 0 | 0 | 15 |
| ## 1072 | 1 | 0 | 0 | 10 | 6400 | 3863 | 2 | 15 |
| ## 1073 | 1 | 0 | 0 | 11 | 13190 | 2516 | 4 | 19 |
| ## 1076 | 1 | 0 | 0 | 10 | 9500 | 31664 | 2 | 7 |
| ## 1077 | 1 | 2 | 2 | 10 | 5100 | 7136 | 1 | 1 |
| ## 1078 | 1 | 0 | 0 | 13 | 23170 | 0 | 0 | 1 |
| ## 1079 | 1 | 1 | 1 | 10 | 25590 | 7328 | 1 | 11 |
| ## 1080 | 1 | 0 | 0 | 0 | 17190 | 0 | 0 | 1 |
| ## 1081 | 1 | 0 | 2 | 14 | 4800 | 0 | 0 | 6 |
| ## 1083 | 1 | 0 | 0 | 9 | 25310 | 0 | 0 | 1 |
| ## 1084 | 1 | 0 | 0 | 10 | 10180 | 0 | 0 | 9 |
| ## 1086 | 1 | 0 | 0 | 0 | 12760 | 0 | 0 | 1 |
| ## 1087 | 1 | 0 | 0 | 8 | 10570 | 0 | 0 | 9 |
| ## 1088 | 1 | 0 | 0 | 13 | 15480 | 0 | 0 | 12 |
| ## 1089 | 1 | 0 | 0 | 10 | 19540 | 8212 | 3 | 15 |
| ## 1090 | 1 | 0 | 0 | 10 | 13760 | 0 | 0 | 8 |
| ## 1091 | 1 | 0 | 0 | 10 | 8370 | 2988 | 1 | 12 |
| ## 1092 | 1 | 0 | 2 | 11 | 24280 | 42208 | 1 | 1 |
| ## 1095 | 1 | 0 | 0 | 13 | 2450 | 0 | 0 | 1 |
| ## 1096 | 1 | 0 | 0 | 10 | 26550 | 4843 | 3 | 11 |
| ## 1097 | 1 | 0 | 1 | 15 | 24670 | 0 | 0 | 1 |
| ## 1098 | 1 | 1 | 2 | 13 | 35270 | 0 | 0 | 15 |
| ## 1099 | 1 | 0 | 0 | 8 | 17020 | 0 | 0 | 18 |
| ## 1100 | 1 | 1 | 2 | 17 | 18740 | 5108 | 1 | 15 |
| ## 1102 | 1 | 0 | 0 | 9 | 17270 | 3475 | 1 | 17 |
| ## 1103 | 1 | 0 | 0 | 15 | 16360 | 26281 | 1 | 1 |
| ## 1105 | 1 | 2 | 3 | 12 | 9200 | 3119 | 2 | 1 |
| ## 1106 | 1 | 0 | 2 | 14 | 8420 | 0 | 0 | 6 |
| ## 1107 | 1 | 0 | 2 | 0 | 23570 | 1380 | 3 | 17 |
| ## 1108 | 1 | 0 | 0 | 9 | 25240 | 949 | 2 | 14 |
| ## 1109 | 1 | 0 | 1 | 4 | 8460 | 8844 | 2 | 7 |
| ## 1110 | 1 | 0 | 0 | 10 | 6500 | 27369 | 2 | 12 |
| ## 1111 | 1 | 0 | 0 | 10 | 8830 | 31567 | 2 | 10 |
| ## 1114 | 1 | 0 | 0 | 11 | 8770 | 0 | 0 | 8 |
| ## 1115 | 1 | 0 | 0 | 12 | 8630 | 2499 | 3 | 1 |
| ## 1116 | 1 | 0 | 0 | 12 | 35520 | 4657 | 3 | 1 |
| ## 1117 | 1 | 0 | 3 | 8 | 1500 | 7946 | 3 | 10 |
| ## 1118 | 1 | 0 | 0 | 11 | 18510 | 0 | 0 | 8 |
| ## 1119 | 1 | 0 | 0 | 9 | 5560 | 0 | 0 | 1 |
| ## 1121 | 1 | 0 | 1 | 9 | 12720 | 0 | 0 | 4 |
| ## 1122 | 1 | 0 | 1 | 9 | 5510 | 0 | 0 | 1 |
| ## 1124 | 1 | 0 | 0 | 9 | 5600 | 5171 | 4 | 1 |
| ## 1125 | 1 | 0 | 2 | 10 | 10900 | 0 | 0 | 9 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1126 | 1 | 0 | 0 | 12 | 12220 | 6780 | 1 | 10 |
| ## 1127 | 1 | 0 | 0 | 11 | 9960 | 1444 | 1 | 10 |
| ## 1128 | 1 | 0 | 0 | 8 | 17570 | 10200 | 3 | 16 |
| ## 1129 | 1 | 0 | 1 | 10 | 12840 | 0 | 0 | 19 |
| ## 1130 | 1 | 0 | 0 | 9 | 23450 | 8044 | 3 | 14 |
| ## 1133 | 1 | 0 | 0 | 9 | 5160 | 24822 | 3 | 11 |
| ## 1134 | 1 | 0 | 3 | 2 | 11780 | 16948 | 4 | 1 |
| ## 1135 | 1 | 1 | 2 | 0 | 11190 | 0 | 0 | 7 |
| ## 1136 | 1 | 0 | 1 | 12 | 15990 | 4208 | 1 | 17 |
| ## 1137 | 1 | 1 | 2 | 12 | 32430 | 6514 | 4 | 9 |
| ## 1138 | 1 | 1 | 2 | 8 | 6400 | 0 | 0 | 9 |
| ## 1140 | 1 | 0 | 0 | 11 | 6600 | 8136 | 2 | 5 |
| ## 1141 | 1 | 0 | 1 | 0 | 9370 | 0 | 0 | 1 |
| ## 1143 | 1 | 0 | 0 | 9 | 21510 | 6025 | 3 | 10 |
| ## 1144 | 1 | 0 | 0 | 6 | 17840 | 4002 | 1 | 1 |
| ## 1145 | 1 | 0 | 0 | 12 | 12510 | 6281 | 2 | 16 |
| ## 1146 | 1 | 1 | 1 | 12 | 24870 | 7343 | 4 | 13 |
| ## 1147 | 1 | 0 | 0 | 9 | 22230 | 0 | 0 | 5 |
| ## 1148 | 1 | 0 | 0 | 10 | 16400 | 0 | 0 | 1 |
| ## 1149 | 1 | 1 | 0 | 13 | 16450 | 5105 | 3 | 10 |
| ## 1152 | 1 | 0 | 1 | 10 | 13680 | 4814 | 3 | 1 |
| ## 1153 | 1 | 0 | 2 | 14 | 1500 | 0 | 0 | 7 |
| ## 1154 | 1 | 1 | 2 | 13 | 1500 | 20972 | 2 | 17 |
| ## 1155 | 1 | 0 | 0 | 13 | 6450 | 2755 | 2 | 7 |
| ## 1156 | 1 | 0 | 0 | 0 | 6200 | 0 | 0 | 1 |
| ## 1157 | 1 | 0 | 0 | 11 | 12470 | 3707 | 1 | 7 |
| ## 1159 | 1 | 0 | 0 | 0 | 7710 | 0 | 0 | 11 |
| ## 1160 | 1 | 0 | 1 | 0 | 9560 | 7225 | 3 | 1 |
| ## 1162 | 1 | 1 | 2 | 13 | 9860 | 0 | 0 | 11 |
| ## 1163 | 1 | 0 | 2 | 12 | 13730 | 1150 | 2 | 1 |
| ## 1164 | 1 | 0 | 0 | 7 | 16390 | 4601 | 3 | 13 |
| ## 1165 | 1 | 1 | 1 | 12 | 28730 | 0 | 0 | 10 |
| ## 1166 | 1 | 0 | 1 | 13 | 15260 | 5318 | 3 | 1 |
| ## 1167 | 1 | 0 | 0 | 10 | 5570 | 0 | 0 | 9 |
| ## 1168 | 1 | 1 | 1 | 7 | 25140 | 5795 | 3 | 14 |
| ## 1171 | 1 | 0 | 0 | 11 | 24660 | 43501 | 1 | 9 |
| ## 1172 | 1 | 0 | 3 | 14 | 4300 | 10658 | 2 | 5 |
| ## 1173 | 1 | 0 | 1 | 9 | 26550 | 8673 | 3 | 1 |
| ## 1174 | 1 | 0 | 0 | 15 | 18530 | 2056 | 2 | 1 |
| ## 1175 | 1 | 0 | 1 | 0 | 5200 | 13647 | 2 | 1 |
| ## 1176 | 1 | 0 | 0 | 13 | 30690 | 35095 | 3 | 19 |
| ## 1178 | 1 | 0 | 0 | 14 | 17740 | 6587 | 3 | 1 |
| ## 1179 | 1 | 1 | 2 | 10 | 12320 | 4746 | 2 | 1 |
| ## 1181 | 1 | 0 | 0 | 5 | 19030 | 0 | 0 | 18 |
| ## 1182 | 1 | 0 | 0 | 10 | 34610 | 0 | 0 | 8 |
| ## 1183 | 1 | 0 | 2 | 11 | 22780 | 0 | 0 | 1 |
| ## 1184 | 1 | 0 | 0 | 12 | 21600 | 4075 | 3 | 5 |
| ## 1185 | 1 | 0 | 0 | 10 | 20750 | 0 | 0 | 5 |
| ## 1186 | 1 | 2 | 3 | 10 | 14680 | 8386 | 2 | 18 |
| ## 1187 | 1 | 0 | 2 | 13 | 7460 | 9543 | 3 | 1 |
| ## 1190 | 1 | 0 | 0 | 0 | 10940 | 0 | 0 | 12 |
| ## 1191 | 1 | 1 | 1 | 11 | 8610 | 4321 | 3 | 3 |
| ## 1192 | 1 | 0 | 0 | 11 | 9480 | 3507 | 2 | 1 |
| ## 1193 | 1 | 0 | 2 | 10 | 20120 | 5480 | 4 | 7 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1194 | 1 | 2 | 3 | 9 | 5700 | 4332 | 1 | 10 |
| ## 1195 | 1 | 0 | 0 | 12 | 13230 | 4292 | 3 | 12 |
| ## 1197 | 1 | 0 | 0 | 13 | 11480 | 4196 | 2 | 1 |
| ## 1198 | 1 | 1 | 1 | 0 | 1700 | 4543 | 2 | 1 |
| ## 1200 | 1 | 0 | 0 | 9 | 22120 | 654 | 3 | 11 |
| ## 1201 | 1 | 1 | 1 | 13 | 6040 | 0 | 0 | 1 |
| ## 1202 | 1 | 0 | 0 | 15 | 9800 | 38649 | 3 | 1 |
| ## 1203 | 1 | 0 | 0 | 11 | 26290 | 0 | 0 | 12 |
| ## 1204 | 1 | 0 | 0 | 9 | 28370 | 0 | 0 | 1 |
| ## 1205 | 1 | 0 | 1 | 6 | 14050 | 6890 | 3 | 1 |
| ## 1206 | 1 | 0 | 0 | 7 | 11590 | 0 | 0 | 1 |
| ## 1209 | 1 | 0 | 2 | 8 | 6240 | 0 | 0 | 6 |
| ## 1210 | 1 | 0 | 0 | 0 | 7100 | 0 | 0 | 5 |
| ## 1211 | 1 | 0 | 0 | 0 | 1500 | 0 | 0 | 1 |
| ## 1212 | 1 | 0 | 1 | 10 | 18150 | 5796 | 2 | 17 |
| ## 1213 | 1 | 0 | 0 | 9 | 9040 | 0 | 0 | 11 |
| ## 1214 | 1 | 0 | 1 | 7 | 7950 | 2004 | 3 | 6 |
| ## 1216 | 1 | 0 | 0 | 0 | 8140 | 41175 | 2 | 1 |
| ## 1217 | 1 | 0 | 0 | 10 | 27530 | 0 | 0 | 14 |
| ## 1219 | 1 | 0 | 0 | 14 | 10040 | 6216 | 1 | 3 |
| ## 1220 | 1 | 0 | 0 | 13 | 8540 | 3653 | 1 | 1 |
| ## 1221 | 1 | 0 | 0 | 12 | 9200 | 0 | 0 | 9 |
| ## 1222 | 1 | 0 | 3 | 19 | 8290 | 30192 | 1 | 1 |
| ## 1223 | 1 | 2 | 2 | 12 | 12330 | 652 | 2 | 7 |
| ## 1224 | 1 | 0 | 2 | 0 | 7200 | 0 | 0 | 8 |
| ## 1225 | 1 | 0 | 1 | 12 | 4600 | 0 | 0 | 5 |
| ## 1228 | 1 | 0 | 3 | 12 | 2930 | 0 | 0 | 1 |
| ## 1229 | 1 | 0 | 1 | 9 | 18600 | 0 | 0 | 8 |
| ## 1230 | 1 | 0 | 2 | 11 | 5000 | 7165 | 2 | 1 |
| ## 1231 | 1 | 0 | 0 | 11 | 24300 | 10764 | 2 | 7 |
| ## 1232 | 1 | 1 | 2 | 14 | 43280 | 4422 | 2 | 18 |
| ## 1233 | 1 | 0 | 0 | 12 | 12250 | 0 | 0 | 8 |
| ## 1235 | 1 | 0 | 4 | 13 | 13360 | 4470 | 4 | 1 |
| ## 1236 | 1 | 0 | 0 | 14 | 8670 | 0 | 0 | 1 |
| ## 1238 | 1 | 0 | 2 | 15 | 8940 | 2712 | 2 | 7 |
| ## 1239 | 1 | 0 | 2 | 13 | 18770 | 6996 | 1 | 8 |
| ## 1240 | 1 | 0 | 3 | 17 | 20580 | 2601 | 1 | 13 |
| ## 1241 | 1 | 0 | 0 | 13 | 23550 | 0 | 0 | 4 |
| ## 1242 | 1 | 0 | 1 | 11 | 5200 | 7372 | 3 | 10 |
| ## 1243 | 1 | 0 | 0 | 0 | 10070 | 3855 | 2 | 14 |
| ## 1244 | 1 | 0 | 2 | 11 | 11990 | 0 | 0 | 1 |
| ## 1247 | 1 | 0 | 2 | 14 | 15360 | 5117 | 2 | 1 |
| ## 1248 | 1 | 0 | 0 | 11 | 4320 | 17368 | 2 | 5 |
| ## 1249 | 1 | 0 | 0 | 13 | 7000 | 6552 | 1 | 1 |
| ## 1250 | 1 | 1 | 2 | 10 | 5600 | 38312 | 2 | 18 |
| ## 1251 | 1 | 0 | 0 | 8 | 8570 | 3068 | 3 | 9 |
| ## 1252 | 1 | 0 | 0 | 0 | 15610 | 5316 | 2 | 14 |
| ## 1254 | 1 | 0 | 0 | 11 | 13740 | 0 | 0 | 6 |
| ## 1255 | 1 | 0 | 0 | 10 | 7590 | 5517 | 4 | 7 |
| ## 1257 | 1 | 1 | 2 | 13 | 12190 | 0 | 0 | 8 |
| ## 1258 | 1 | 0 | 0 | 8 | 9690 | 4588 | 1 | 1 |
| ## 1259 | 1 | 2 | 2 | 10 | 19130 | 5730 | 3 | 12 |
| ## 1260 | 1 | 0 | 0 | 14 | 12850 | 0 | 0 | 12 |
| ## 1261 | 1 | 0 | 0 | 11 | 6800 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1262 | 1 | 0 | 0 | 0 | 6400 | 5032 | 3 | 1 |
| ## 1263 | 1 | 0 | 0 | 11 | 1500 | 31344 | 3 | 7 |
| ## 1266 | 1 | 0 | 0 | 0 | 7470 | 9603 | 2 | 13 |
| ## 1267 | 1 | 0 | 0 | 0 | 1500 | 0 | 0 | 10 |
| ## 1268 | 1 | 0 | 0 | 7 | 15030 | 0 | 0 | 12 |
| ## 1269 | 1 | 0 | 0 | 0 | 6000 | 3373 | 3 | 11 |
| ## 1270 | 1 | 0 | 2 | 14 | 4600 | 1794 | 2 | 6 |
| ## 1271 | 1 | 1 | 1 | 7 | 13320 | 7884 | 5 | 17 |
| ## 1273 | 1 | 0 | 4 | 0 | 9150 | 0 | 0 | 1 |
| ## 1274 | 1 | 0 | 1 | 7 | 3900 | 0 | 0 | 12 |
| ## 1276 | 1 | 0 | 0 | 14 | 13810 | 9658 | 1 | 15 |
| ## 1277 | 1 | 0 | 0 | 3 | 6000 | 26003 | 2 | 21 |
| ## 1278 | 1 | 0 | 5 | 14 | 11780 | 30213 | 2 | 7 |
| ## 1279 | 1 | 0 | 0 | 0 | 5200 | 6064 | 1 | 8 |
| ## 1280 | 1 | 0 | 0 | 13 | 30200 | 7092 | 2 | 17 |
| ## 1281 | 1 | 0 | 0 | 14 | 10750 | 0 | 0 | 1 |
| ## 1282 | 1 | 0 | 0 | 0 | 7380 | 4969 | 1 | 10 |
| ## 1285 | 1 | 1 | 1 | 12 | 17700 | 0 | 0 | 5 |
| ## 1286 | 1 | 0 | 0 | 7 | 6100 | 0 | 0 | 1 |
| ## 1287 | 1 | 0 | 0 | 0 | 18070 | 20773 | 3 | 9 |
| ## 1288 | 1 | 0 | 1 | 0 | 13140 | 5696 | 4 | 1 |
| ## 1289 | 1 | 0 | 0 | 11 | 10840 | 0 | 0 | 8 |
| ## 1290 | 1 | 0 | 0 | 14 | 8150 | 23275 | 1 | 1 |
| ## 1292 | 1 | 0 | 3 | 0 | 14900 | 33611 | 1 | 8 |
| ## 1293 | 1 | 0 | 0 | 0 | 8820 | 29572 | 3 | 9 |
| ## 1295 | 1 | 0 | 1 | 11 | 18790 | 0 | 0 | 7 |
| ## 1296 | 1 | 0 | 0 | 14 | 34380 | 6308 | 2 | 14 |
| ## 1297 | 1 | 2 | 2 | 14 | 8380 | 1139 | 3 | 1 |
| ## 1298 | 1 | 0 | 1 | 10 | 11440 | 0 | 0 | 8 |
| ## 1299 | 1 | 0 | 0 | 12 | 7600 | 0 | 0 | 19 |
| ## 1300 | 1 | 1 | 3 | 17 | 3750 | 6714 | 1 | 1 |
| ## 1301 | 1 | 0 | 0 | 14 | 13870 | 8081 | 1 | 12 |
| ## 1304 | 1 | 0 | 3 | 0 | 3830 | 4311 | 1 | 12 |
| ## 1305 | 1 | 1 | 1 | 12 | 6000 | 4339 | 3 | 10 |
| ## 1306 | 1 | 0 | 0 | 12 | 44590 | 8331 | 2 | 9 |
| ## 1307 | 1 | 0 | 0 | 14 | 13570 | 0 | 0 | 14 |
| ## 1308 | 1 | 0 | 0 | 9 | 10450 | 0 | 0 | 5 |
| ## 1309 | 1 | 0 | 0 | 0 | 26580 | 5921 | 5 | 1 |
| ## 1311 | 1 | 0 | 0 | 6 | 12140 | 1986 | 4 | 7 |
| ## 1312 | 1 | 0 | 0 | 10 | 14420 | 1414 | 1 | 5 |
| ## 1314 | 1 | 0 | 0 | 11 | 8160 | 5386 | 1 | 5 |
| ## 1315 | 1 | 0 | 2 | 0 | 15070 | 0 | 0 | 9 |
| ## 1316 | 1 | 0 | 1 | 12 | 11580 | 23198 | 3 | 12 |
| ## 1317 | 1 | 0 | 4 | 14 | 11520 | 0 | 0 | 9 |
| ## 1318 | 1 | 0 | 4 | 0 | 8700 | 0 | 0 | 1 |
| ## 1319 | 1 | 0 | 1 | 11 | 10060 | 0 | 0 | 5 |
| ## 1320 | 1 | 0 | 2 | 15 | 6000 | 9611 | 2 | 15 |
| ## 1323 | 1 | 0 | 0 | 11 | 5400 | 4031 | 1 | 6 |
| ## 1324 | 1 | 2 | 2 | 13 | 16370 | 4873 | 2 | 7 |
| ## 1325 | 1 | 0 | 0 | 9 | 29900 | 10768 | 3 | 9 |
| ## 1326 | 1 | 2 | 3 | 12 | 7210 | 0 | 0 | 9 |
| ## 1327 | 1 | 0 | 0 | 12 | 5900 | 0 | 0 | 1 |
| ## 1328 | 1 | 1 | 2 | 7 | 26440 | 3699 | 3 | 18 |
| ## 1330 | 1 | 0 | 1 | 14 | 10330 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1331 | 1 | 1 | 1 | 15 | 17730 | 6421 | 1 | 6 |
| ## 1333 | 1 | 0 | 0 | 9 | 15050 | 6713 | 3 | 1 |
| ## 1334 | 1 | 0 | 0 | 10 | 3630 | 3653 | 1 | 1 |
| ## 1335 | 1 | 0 | 1 | 0 | 2750 | 39401 | 3 | 10 |
| ## 1336 | 1 | 0 | 1 | 13 | 12170 | 3055 | 2 | 8 |
| ## 1337 | 1 | 0 | 0 | 0 | 1500 | 8567 | 2 | 8 |
| ## 1338 | 1 | 0 | 0 | 10 | 21380 | 0 | 0 | 8 |
| ## 1339 | 1 | 0 | 0 | 13 | 26020 | 1044 | 2 | 5 |
| ## 1342 | 1 | 0 | 1 | 11 | 15380 | 5563 | 3 | 4 |
| ## 1343 | 1 | 0 | 0 | 7 | 8770 | 9232 | 3 | 14 |
| ## 1344 | 1 | 0 | 0 | 10 | 42170 | 0 | 0 | 8 |
| ## 1345 | 1 | 0 | 3 | 9 | 23330 | 0 | 0 | 16 |
| ## 1346 | 1 | 0 | 3 | 10 | 10890 | 4044 | 2 | 9 |
| ## 1347 | 1 | 1 | 1 | 9 | 12830 | 1510 | 1 | 1 |
| ## 1349 | 1 | 0 | 1 | 8 | 8540 | 0 | 0 | 1 |
| ## 1350 | 1 | 0 | 0 | 13 | 18560 | 0 | 0 | 10 |
| ## 1352 | 1 | 0 | 0 | 9 | 9420 | 0 | 0 | 4 |
| ## 1353 | 1 | 1 | 2 | 12 | 23950 | 3718 | 1 | 4 |
| ## 1354 | 1 | 0 | 0 | 14 | 18300 | 8363 | 1 | 1 |
| ## 1355 | 1 | 0 | 2 | 0 | 7500 | 0 | 0 | 1 |
| ## 1356 | 1 | 2 | 4 | 16 | 1500 | 49223 | 1 | 1 |
| ## 1357 | 1 | 0 | 2 | 15 | 9760 | 2316 | 1 | 1 |
| ## 1358 | 1 | 0 | 0 | 10 | 9190 | 0 | 0 | 1 |
| ## 1361 | 1 | 2 | 2 | 11 | 18270 | 2787 | 3 | 1 |
| ## 1362 | 1 | 0 | 0 | 15 | 25090 | 0 | 0 | 7 |
| ## 1363 | 1 | 0 | 2 | 0 | 9750 | 11093 | 3 | 1 |
| ## 1364 | 1 | 0 | 0 | 8 | 13950 | 0 | 0 | 11 |
| ## 1365 | 1 | 0 | 1 | 15 | 11210 | 10572 | 4 | 8 |
| ## 1366 | 1 | 0 | 0 | 10 | 3350 | 6006 | 2 | 14 |
| ## 1368 | 1 | 1 | 2 | 16 | 44250 | 26121 | 4 | 11 |
| ## 1369 | 1 | 0 | 2 | 12 | 6140 | 696 | 2 | 1 |
| ## 1371 | 1 | 0 | 1 | 9 | 19380 | 0 | 0 | 7 |
| ## 1372 | 1 | 0 | 0 | 5 | 18110 | 1575 | 2 | 16 |
| ## 1373 | 1 | 0 | 2 | 12 | 17540 | 25379 | 1 | 9 |
| ## 1374 | 1 | 0 | 2 | 0 | 22430 | 8538 | 4 | 1 |
| ## 1375 | 1 | 0 | 0 | 11 | 18900 | 3328 | 1 | 11 |
| ## 1376 | 1 | 0 | 0 | 13 | 19620 | 0 | 0 | 15 |
| ## 1377 | 1 | 3 | 3 | 14 | 7770 | 28476 | 1 | 1 |
| ## 1380 | 1 | 1 | 2 | 13 | 13850 | 3828 | 3 | 6 |
| ## 1381 | 1 | 0 | 0 | 11 | 10170 | 8135 | 3 | 13 |
| ## 1382 | 1 | 0 | 0 | 12 | 16810 | 6978 | 2 | 1 |
| ## 1383 | 1 | 0 | 0 | 13 | 19450 | 0 | 0 | 13 |
| ## 1384 | 1 | 1 | 2 | 16 | 13020 | 44010 | 3 | 6 |
| ## 1385 | 1 | 0 | 0 | 12 | 14060 | 0 | 0 | 9 |
| ## 1387 | 1 | 0 | 2 | 9 | 18790 | 26926 | 2 | 15 |
| ## 1388 | 1 | 1 | 2 | 8 | 25730 | 1410 | 1 | 5 |
| ## 1390 | 1 | 0 | 2 | 10 | 19240 | 4445 | 2 | 10 |
| ## 1391 | 1 | 2 | 2 | 12 | 15500 | 5306 | 2 | 1 |
| ## 1392 | 1 | 0 | 0 | 12 | 12200 | 0 | 0 | 1 |
| ## 1393 | 1 | 0 | 0 | 6 | 16790 | 32113 | 1 | 19 |
| ## 1394 | 1 | 0 | 0 | 13 | 26630 | 11364 | 1 | 15 |
| ## 1395 | 1 | 0 | 0 | 13 | 13940 | 0 | 0 | 1 |
| ## 1396 | 1 | 0 | 0 | 13 | 21670 | 0 | 0 | 10 |
| ## 1399 | 1 | 0 | 2 | 0 | 1500 | 11086 | 2 | 9 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1400 | 1 | 0 | 0 | 11 | 12960 | 3116 | 2 | 10 |
| ## 1401 | 1 | 1 | 3 | 14 | 14210 | 1155 | 1 | 6 |
| ## 1402 | 1 | 0 | 0 | 12 | 44130 | 0 | 0 | 1 |
| ## 1403 | 1 | 2 | 2 | 9 | 23380 | 0 | 0 | 19 |
| ## 1404 | 1 | 0 | 2 | 14 | 15380 | 0 | 0 | 14 |
| ## 1406 | 1 | 1 | 2 | 12 | 9720 | 0 | 0 | 1 |
| ## 1407 | 1 | 1 | 3 | 14 | 13540 | 1879 | 1 | 10 |
| ## 1409 | 1 | 0 | 1 | 12 | 2070 | 6535 | 2 | 1 |
| ## 1410 | 1 | 0 | 0 | 15 | 12350 | 2414 | 1 | 1 |
| ## 1411 | 1 | 0 | 0 | 6 | 6300 | 3614 | 3 | 12 |
| ## 1412 | 1 | 0 | 1 | 13 | 3680 | 0 | 0 | 8 |
| ## 1413 | 1 | 0 | 0 | 10 | 13510 | 0 | 0 | 13 |
| ## 1414 | 1 | 0 | 0 | 10 | 22060 | 1685 | 3 | 10 |
| ## 1415 | 1 | 0 | 0 | 12 | 24660 | 0 | 0 | 8 |
| ## 1418 | 1 | 1 | 2 | 13 | 6000 | 29150 | 2 | 8 |
| ## 1419 | 1 | 0 | 0 | 11 | 6440 | 10000 | 1 | 1 |
| ## 1420 | 1 | 0 | 0 | 11 | 6600 | 21606 | 1 | 1 |
| ## 1421 | 1 | 0 | 3 | 8 | 12510 | 0 | 0 | 3 |
| ## 1422 | 1 | 0 | 0 | 10 | 7780 | 0 | 0 | 20 |
| ## 1423 | 1 | 0 | 1 | 9 | 11670 | 9302 | 1 | 18 |
| ## 1425 | 1 | 1 | 1 | 12 | 21780 | 0 | 0 | 9 |
| ## 1426 | 1 | 0 | 1 | 0 | 15370 | 2747 | 1 | 6 |
| ## 1428 | 1 | 0 | 0 | 13 | 10150 | 10658 | 1 | 3 |
| ## 1429 | 1 | 0 | 2 | 9 | 8190 | 2892 | 3 | 3 |
| ## 1430 | 1 | 0 | 0 | 10 | 22830 | 10011 | 1 | 1 |
| ## 1431 | 1 | 0 | 0 | 11 | 6300 | 6041 | 4 | 9 |
| ## 1432 | 1 | 0 | 0 | 12 | 33500 | 0 | 0 | 9 |
| ## 1433 | 1 | 0 | 0 | 12 | 24010 | 11445 | 3 | 1 |
| ## 1434 | 1 | 1 | 2 | 0 | 7100 | 0 | 0 | 7 |
| ## 1437 | 1 | 0 | 0 | 14 | 10970 | 5653 | 3 | 6 |
| ## 1438 | 1 | 0 | 0 | 0 | 40100 | 27795 | 2 | 4 |
| ## 1439 | 1 | 0 | 0 | 9 | 20140 | 5105 | 2 | 8 |
| ## 1440 | 1 | 0 | 0 | 10 | 7020 | 0 | 0 | 15 |
| ## 1441 | 1 | 0 | 0 | 12 | 14030 | 0 | 0 | 10 |
| ## 1442 | 1 | 0 | 0 | 13 | 5720 | 0 | 0 | 6 |
| ## 1444 | 1 | 0 | 2 | 14 | 7940 | 4922 | 3 | 9 |
| ## 1445 | 1 | 0 | 3 | 17 | 19680 | 6279 | 1 | 16 |
| ## 1447 | 1 | 0 | 0 | 12 | 22160 | 41742 | 1 | 18 |
| ## 1448 | 1 | 0 | 1 | 10 | 9640 | 2951 | 2 | 1 |
| ## 1449 | 1 | 0 | 3 | 16 | 5500 | 0 | 0 | 10 |
| ## 1450 | 1 | 0 | 0 | 14 | 21360 | 0 | 0 | 10 |
| ## 1451 | 1 | 0 | 0 | 11 | 9880 | 0 | 0 | 9 |
| ## 1452 | 1 | 0 | 0 | 14 | 18700 | 0 | 0 | 14 |
| ## 1453 | 1 | 0 | 0 | 10 | 6900 | 0 | 0 | 1 |
| ## 1456 | 1 | 0 | 2 | 10 | 22460 | 6029 | 1 | 10 |
| ## 1457 | 1 | 0 | 0 | 13 | 22420 | 27497 | 1 | 8 |
| ## 1458 | 1 | 0 | 0 | 11 | 23360 | 4963 | 3 | 7 |
| ## 1459 | 1 | 0 | 2 | 0 | 13930 | 2711 | 2 | 10 |
| ## 1460 | 1 | 0 | 3 | 10 | 9360 | 0 | 0 | 7 |
| ## 1461 | 1 | 0 | 0 | 9 | 17280 | 3780 | 2 | 7 |
| ## 1463 | 1 | 2 | 2 | 0 | 11100 | 0 | 0 | 17 |
| ## 1464 | 1 | 1 | 1 | 11 | 6300 | 4596 | 1 | 20 |
| ## 1466 | 1 | 0 | 0 | 13 | 10760 | 6675 | 1 | 7 |
| ## 1467 | 1 | 0 | 0 | 15 | 12370 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1468 | 1 | 2 | 2 | 12 | 16710 | 3618 | 3 | 1 |
| ## 1469 | 1 | 0 | 2 | 10 | 8460 | 6403 | 2 | 1 |
| ## 1470 | 1 | 1 | 1 | 14 | 7600 | 11681 | 2 | 14 |
| ## 1471 | 1 | 0 | 2 | 17 | 17890 | 0 | 0 | 13 |
| ## 1472 | 1 | 0 | 4 | 12 | 3980 | 1391 | 2 | 6 |
| ## 1475 | 1 | 2 | 3 | 13 | 28200 | 6013 | 2 | 8 |
| ## 1476 | 1 | 0 | 0 | 9 | 5800 | 0 | 0 | 1 |
| ## 1477 | 1 | 0 | 0 | 12 | 22930 | 7089 | 3 | 4 |
| ## 1478 | 1 | 0 | 0 | 6 | 19840 | 5341 | 2 | 1 |
| ## 1479 | 1 | 0 | 2 | 9 | 16380 | 7564 | 3 | 1 |
| ## 1480 | 1 | 0 | 0 | 12 | 30390 | 0 | 0 | 10 |
| ## 1482 | 1 | 0 | 0 | 9 | 15020 | 8921 | 1 | 14 |
| ## 1483 | 1 | 0 | 0 | 11 | 21070 | 0 | 0 | 8 |
| ## 1485 | 1 | 2 | 3 | 13 | 9210 | 6848 | 1 | 1 |
| ## 1486 | 1 | 0 | 0 | 4 | 22440 | 8419 | 3 | 17 |
| ## 1487 | 1 | 2 | 3 | 12 | 23450 | 0 | 0 | 1 |
| ## 1488 | 1 | 0 | 0 | 14 | 26920 | 0 | 0 | 7 |
| ## 1489 | 1 | 2 | 2 | 16 | 10420 | 4528 | 5 | 22 |
| ## 1490 | 1 | 1 | 2 | 13 | 8090 | 0 | 0 | 8 |
| ## 1491 | 1 | 0 | 0 | 13 | 19390 | 0 | 0 | 1 |
| ## 1494 | 1 | 0 | 0 | 15 | 24900 | 2033 | 4 | 11 |
| ## 1495 | 1 | 1 | 1 | 11 | 6300 | 0 | 0 | 12 |
| ## 1496 | 1 | 0 | 4 | 12 | 14330 | 0 | 0 | 1 |
| ## 1497 | 1 | 0 | 0 | 8 | 7730 | 3229 | 2 | 13 |
| ## 1498 | 1 | 0 | 0 | 9 | 20630 | 4562 | 1 | 12 |
| ## 1499 | 1 | 0 | 0 | 6 | 10530 | 1089 | 2 | 5 |
| ## 1501 | 1 | 0 | 0 | 14 | 10880 | 28621 | 2 | 1 |
| ## 1502 | 1 | 0 | 0 | 10 | 13590 | 0 | 0 | 1 |
| ## 1504 | 1 | 0 | 3 | 7 | 10140 | 0 | 0 | 10 |
| ## 1505 | 1 | 2 | 3 | 14 | 5700 | 0 | 0 | 9 |
| ## 1506 | 1 | 1 | 2 | 11 | 8370 | 4707 | 3 | 1 |
| ## 1507 | 1 | 0 | 0 | 0 | 5900 | 8054 | 1 | 7 |
| ## 1508 | 1 | 0 | 2 | 8 | 5200 | 5760 | 4 | 13 |
| ## 1509 | 1 | 0 | 3 | 16 | 9390 | 8339 | 2 | 3 |
| ## 1510 | 1 | 0 | 0 | 11 | 20520 | 0 | 0 | 17 |
| ## 1513 | 1 | 0 | 2 | 12 | 4800 | 1536 | 2 | 6 |
| ## 1514 | 1 | 0 | 0 | 11 | 11550 | 6079 | 1 | 7 |
| ## 1515 | 1 | 0 | 0 | 9 | 17860 | 33326 | 3 | 19 |
| ## 1516 | 1 | 0 | 0 | 13 | 23340 | 10718 | 3 | 1 |
| ## 1517 | 1 | 2 | 3 | 0 | 19620 | 28816 | 4 | 8 |
| ## 1518 | 1 | 0 | 0 | 12 | 31440 | 0 | 0 | 1 |
| ## 1520 | 1 | 0 | 1 | 9 | 8720 | 2481 | 3 | 14 |
| ## 1521 | 1 | 0 | 0 | 13 | 8080 | 2658 | 2 | 9 |
| ## 1523 | 1 | 0 | 0 | 9 | 2800 | 1354 | 2 | 10 |
| ## 1524 | 1 | 0 | 0 | 12 | 14990 | 0 | 0 | 1 |
| ## 1525 | 1 | 0 | 0 | 7 | 6200 | 2849 | 2 | 7 |
| ## 1526 | 1 | 1 | 1 | 13 | 9580 | 40929 | 1 | 16 |
| ## 1527 | 1 | 1 | 2 | 13 | 15810 | 0 | 0 | 1 |
| ## 1528 | 1 | 0 | 3 | 14 | 15770 | 0 | 0 | 1 |
| ## 1529 | 1 | 1 | 2 | 0 | 5300 | 2185 | 2 | 5 |
| ## 1532 | 1 | 0 | 3 | 7 | 20510 | 4570 | 3 | 8 |
| ## 1533 | 1 | 1 | 2 | 13 | 8770 | 0 | 0 | 1 |
| ## 1534 | 1 | 0 | 1 | 12 | 6990 | 0 | 0 | 4 |
| ## 1535 | 1 | 0 | 0 | 15 | 7770 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1536 | 1 | 0 | 1 | 10 | 12710 | 2083 | 3 | 1 |
| ## 1537 | 1 | 0 | 0 | 9 | 24680 | 3319 | 3 | 1 |
| ## 1539 | 1 | 0 | 0 | 10 | 22950 | 0 | 0 | 11 |
| ## 1540 | 1 | 0 | 0 | 9 | 8410 | 13251 | 2 | 10 |
| ## 1542 | 1 | 0 | 0 | 9 | 14990 | 6055 | 1 | 9 |
| ## 1543 | 1 | 0 | 1 | 0 | 4900 | 0 | 0 | 9 |
| ## 1544 | 1 | 0 | 0 | 9 | 17560 | 0 | 0 | 7 |
| ## 1545 | 1 | 0 | 2 | 13 | 8130 | 7852 | 1 | 1 |
| ## 1546 | 1 | 0 | 0 | 7 | 18820 | 0 | 0 | 7 |
| ## 1547 | 1 | 0 | 1 | 9 | 6100 | 2986 | 3 | 5 |
| ## 1548 | 1 | 0 | 0 | 6 | 12120 | 1520 | 3 | 5 |
| ## 1551 | 1 | 0 | 0 | 10 | 18820 | 7848 | 1 | 13 |
| ## 1552 | 1 | 1 | 2 | 13 | 23520 | 0 | 0 | 11 |
| ## 1553 | 1 | 2 | 2 | 9 | 33760 | 2491 | 2 | 9 |
| ## 1554 | 1 | 0 | 1 | 9 | 8960 | 0 | 0 | 1 |
| ## 1555 | 1 | 0 | 0 | 14 | 13780 | 5014 | 4 | 22 |
| ## 1556 | 1 | 0 | 0 | 11 | 13400 | 0 | 0 | 12 |
| ## 1558 | 1 | 3 | 3 | 14 | 8860 | 2680 | 1 | 11 |
| ## 1559 | 1 | 3 | 3 | 10 | 31000 | 0 | 0 | 1 |
| ## 1561 | 1 | 0 | 0 | 8 | 14320 | 3597 | 2 | 5 |
| ## 1562 | 1 | 0 | 0 | 5 | 3790 | 0 | 0 | 5 |
| ## 1563 | 1 | 2 | 2 | 11 | 5500 | 1896 | 1 | 1 |
| ## 1564 | 1 | 0 | 2 | 12 | 5200 | 0 | 0 | 16 |
| ## 1565 | 1 | 2 | 3 | 14 | 16220 | 9216 | 2 | 10 |
| ## 1566 | 1 | 0 | 4 | 0 | 11730 | 38888 | 2 | 1 |
| ## 1567 | 1 | 0 | 0 | 12 | 38200 | 1657 | 2 | 12 |
| ## 1570 | 1 | 0 | 3 | 14 | 10550 | 8454 | 3 | 1 |
| ## 1571 | 1 | 0 | 1 | 10 | 10960 | 0 | 0 | 7 |
| ## 1572 | 1 | 0 | 0 | 14 | 20540 | 0 | 0 | 15 |
| ## 1573 | 1 | 3 | 3 | 10 | 11160 | 0 | 0 | 7 |
| ## 1574 | 1 | 0 | 0 | 11 | 10340 | 0 | 0 | 6 |
| ## 1575 | 1 | 0 | 0 | 12 | 19030 | 0 | 0 | 20 |
| ## 1577 | 1 | 0 | 3 | 0 | 31810 | 1157 | 3 | 1 |
| ## 1578 | 1 | 0 | 0 | 13 | 7670 | 3158 | 3 | 9 |
| ## 1580 | 1 | 1 | 2 | 10 | 17750 | 0 | 0 | 1 |
| ## 1581 | 1 | 0 | 0 | 0 | 6300 | 2460 | 1 | 12 |
| ## 1582 | 1 | 1 | 2 | 15 | 8090 | 5037 | 3 | 16 |
| ## 1583 | 1 | 0 | 0 | 11 | 9850 | 0 | 0 | 1 |
| ## 1584 | 1 | 0 | 0 | 12 | 10860 | 2457 | 2 | 6 |
| ## 1585 | 1 | 2 | 2 | 11 | 25950 | 8543 | 2 | 7 |
| ## 1586 | 1 | 0 | 0 | 12 | 15270 | 7705 | 1 | 18 |
| ## 1589 | 1 | 0 | 0 | 12 | 19240 | 44641 | 2 | 1 |
| ## 1590 | 1 | 0 | 2 | 13 | 26040 | 0 | 0 | 13 |
| ## 1591 | 1 | 0 | 1 | 11 | 28190 | 0 | 0 | 11 |
| ## 1592 | 1 | 0 | 3 | 15 | 4900 | 1620 | 1 | 6 |
| ## 1593 | 1 | 0 | 2 | 11 | 10810 | 0 | 0 | 1 |
| ## 1594 | 1 | 1 | 2 | 8 | 23970 | 1849 | 2 | 8 |
| ## 1596 | 1 | 0 | 0 | 13 | 11010 | 3767 | 2 | 12 |
| ## 1597 | 1 | 0 | 0 | 10 | 8260 | 0 | 0 | 5 |
| ## 1599 | 1 | 0 | 1 | 7 | 20580 | 0 | 0 | 5 |
| ## 1600 | 1 | 0 | 0 | 0 | 8110 | 0 | 0 | 8 |
| ## 1601 | 1 | 0 | 0 | 13 | 9070 | 0 | 0 | 8 |
| ## 1602 | 1 | 0 | 4 | 11 | 6460 | 3862 | 2 | 16 |
| ## 1603 | 1 | 0 | 0 | 9 | 34920 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1604 | 1 | 0 | 1 | 11 | 17200 | 0 | 0 | 1 |
| ## 1605 | 1 | 0 | 0 | 9 | 26530 | 2884 | 1 | 8 |
| ## 1608 | 1 | 0 | 2 | 12 | 8270 | 6081 | 4 | 1 |
| ## 1609 | 1 | 0 | 0 | 12 | 19120 | 2136 | 3 | 1 |
| ## 1610 | 1 | 1 | 2 | 12 | 14690 | 17070 | 2 | 19 |
| ## 1611 | 1 | 0 | 0 | 14 | 15220 | 20511 | 1 | 1 |
| ## 1612 | 1 | 0 | 0 | 9 | 8350 | 536 | 1 | 1 |
| ## 1613 | 1 | 2 | 3 | 11 | 11960 | 45931 | 1 | 1 |
| ## 1615 | 1 | 0 | 0 | 10 | 18430 | 27389 | 2 | 9 |
| ## 1616 | 1 | 0 | 0 | 12 | 10100 | 0 | 0 | 3 |
| ## 1618 | 1 | 0 | 3 | 0 | 4900 | 0 | 0 | 6 |
| ## 1619 | 1 | 0 | 3 | 13 | 7620 | 5304 | 2 | 1 |
| ## 1620 | 1 | 0 | 0 | 13 | 12040 | 0 | 0 | 6 |
| ## 1621 | 1 | 1 | 1 | 13 | 22960 | 0 | 0 | 1 |
| ## 1622 | 1 | 0 | 0 | 10 | 8920 | 0 | 0 | 17 |
| ## 1623 | 1 | 0 | 0 | 11 | 43290 | 19942 | 3 | 8 |
| ## 1624 | 1 | 0 | 0 | 13 | 13650 | 7062 | 3 | 1 |
| ## 1627 | 1 | 0 | 0 | 11 | 9460 | 0 | 0 | 1 |
| ## 1628 | 1 | 0 | 0 | 14 | 10830 | 0 | 0 | 13 |
| ## 1629 | 1 | 0 | 0 | 12 | 4740 | 0 | 0 | 6 |
| ## 1630 | 1 | 0 | 0 | 0 | 20260 | 934 | 2 | 1 |
| ## 1631 | 1 | 0 | 0 | 8 | 9490 | 0 | 0 | 17 |
| ## 1632 | 1 | 0 | 0 | 11 | 19030 | 0 | 0 | 7 |
| ## 1634 | 1 | 0 | 0 | 16 | 7280 | 4009 | 2 | 6 |
| ## 1635 | 1 | 3 | 3 | 4 | 15100 | 35863 | 2 | 8 |
| ## 1637 | 1 | 0 | 0 | 7 | 14910 | 3894 | 4 | 13 |
| ## 1638 | 1 | 1 | 2 | 14 | 17430 | 6452 | 4 | 7 |
| ## 1639 | 1 | 0 | 1 | 11 | 18690 | 0 | 0 | 1 |
| ## 1640 | 1 | 0 | 0 | 13 | 5530 | 8942 | 2 | 9 |
| ## 1641 | 1 | 0 | 0 | 10 | 5320 | 6094 | 2 | 6 |
| ## 1642 | 1 | 1 | 1 | 11 | 5620 | 7351 | 2 | 18 |
| ## 1643 | 1 | 0 | 0 | 7 | 8760 | 0 | 0 | 10 |
| ## 1646 | 1 | 0 | 0 | 12 | 18320 | 8143 | 2 | 10 |
| ## 1647 | 1 | 0 | 0 | 10 | 6950 | 0 | 0 | 4 |
| ## 1648 | 1 | 0 | 0 | 9 | 17630 | 3826 | 4 | 9 |
| ## 1649 | 1 | 0 | 0 | 13 | 13340 | 3990 | 2 | 9 |
| ## 1650 | 1 | 0 | 0 | 12 | 13480 | 3819 | 2 | 8 |
| ## 1651 | 1 | 1 | 1 | 12 | 17160 | 3744 | 2 | 6 |
| ## 1653 | 1 | 0 | 0 | 0 | 14810 | 7846 | 2 | 6 |
| ## 1654 | 1 | 1 | 2 | 12 | 11930 | 4658 | 3 | 9 |
| ## 1656 | 1 | 0 | 4 | 0 | 4300 | 0 | 0 | 6 |
| ## 1657 | 1 | 0 | 0 | 10 | 23610 | 6011 | 3 | 16 |
| ## 1658 | 1 | 0 | 2 | 0 | 7410 | 1491 | 2 | 1 |
| ## 1659 | 1 | 0 | 0 | 8 | 16700 | 45357 | 1 | 1 |
| ## 1660 | 1 | 3 | 3 | 14 | 12310 | 0 | 0 | 10 |
| ## 1661 | 1 | 0 | 0 | 11 | 6400 | 5551 | 2 | 7 |
| ## 1662 | 1 | 0 | 2 | 12 | 8000 | 39722 | 1 | 10 |
| ## 1665 | 1 | 1 | 1 | 17 | 29700 | 7238 | 2 | 8 |
| ## 1666 | 1 | 0 | 0 | 16 | 26520 | 3431 | 1 | 16 |
| ## 1667 | 1 | 1 | 2 | 8 | 10280 | 9035 | 4 | 7 |
| ## 1668 | 1 | 1 | 2 | 14 | 7210 | 36236 | 3 | 12 |
| ## 1669 | 1 | 0 | 4 | 15 | 7320 | 7582 | 2 | 7 |
| ## 1670 | 1 | 0 | 3 | 12 | 24710 | 898 | 1 | 13 |
| ## 1672 | 1 | 0 | 0 | 9 | 23110 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1673 | 1 | 1 | 3 | 15 | 18080 | 1784 | 1 | 14 |
| ## 1675 | 1 | 0 | 3 | 0 | 16670 | 1051 | 1 | 9 |
| ## 1676 | 1 | 1 | 1 | 12 | 23120 | 0 | 0 | 6 |
| ## 1677 | 1 | 0 | 2 | 17 | 9530 | 0 | 0 | 3 |
| ## 1678 | 1 | 0 | 0 | 11 | 22930 | 6367 | 1 | 1 |
| ## 1679 | 1 | 0 | 1 | 11 | 16410 | 0 | 0 | 1 |
| ## 1680 | 1 | 0 | 0 | 13 | 17270 | 0 | 0 | 1 |
| ## 1681 | 1 | 0 | 3 | 16 | 14000 | 0 | 0 | 9 |
| ## 1684 | 1 | 0 | 0 | 8 | 23260 | 0 | 0 | 1 |
| ## 1685 | 1 | 0 | 3 | 15 | 9360 | 6906 | 2 | 6 |
| ## 1686 | 1 | 0 | 0 | 7 | 1500 | 0 | 0 | 7 |
| ## 1687 | 1 | 0 | 0 | 8 | 12710 | 24458 | 1 | 1 |
| ## 1688 | 1 | 0 | 0 | 7 | 32020 | 28495 | 2 | 15 |
| ## 1689 | 1 | 0 | 0 | 14 | 13570 | 0 | 0 | 9 |
| ## 1691 | 1 | 0 | 3 | 13 | 5470 | 0 | 0 | 1 |
| ## 1692 | 1 | 0 | 0 | 10 | 17190 | 8174 | 2 | 1 |
| ## 1694 | 1 | 1 | 2 | 6 | 20450 | 0 | 0 | 1 |
| ## 1695 | 1 | 0 | 0 | 14 | 18490 | 4906 | 1 | 7 |
| ## 1696 | 1 | 0 | 0 | 0 | 1500 | 6414 | 2 | 7 |
| ## 1697 | 1 | 0 | 0 | 12 | 7520 | 0 | 0 | 12 |
| ## 1698 | 1 | 1 | 3 | 13 | 18060 | 785 | 2 | 14 |
| ## 1699 | 1 | 0 | 0 | 12 | 26370 | 5055 | 3 | 9 |
| ## 1700 | 1 | 2 | 2 | 0 | 1500 | 0 | 0 | 5 |
| ## 1703 | 1 | 0 | 2 | 7 | 8310 | 6693 | 3 | 6 |
| ## 1704 | 1 | 0 | 0 | 8 | 9830 | 4600 | 2 | 1 |
| ## 1705 | 1 | 0 | 0 | 9 | 12150 | 0 | 0 | 8 |
| ## 1706 | 1 | 0 | 0 | 13 | 24180 | 19709 | 3 | 10 |
| ## 1707 | 1 | 1 | 1 | 16 | 6710 | 3850 | 4 | 11 |
| ## 1708 | 1 | 0 | 2 | 11 | 23020 | 0 | 0 | 1 |
| ## 1710 | 1 | 2 | 4 | 19 | 26310 | 0 | 0 | 17 |
| ## 1711 | 1 | 1 | 1 | 11 | 10320 | 7560 | 1 | 20 |
| ## 1713 | 1 | 0 | 3 | 0 | 5950 | 0 | 0 | 1 |
| ## 1714 | 1 | 1 | 1 | 11 | 11220 | 6367 | 4 | 19 |
| ## 1715 | 1 | 0 | 0 | 11 | 24770 | 0 | 0 | 1 |
| ## 1716 | 1 | 0 | 0 | 9 | 1500 | 4636 | 3 | 1 |
| ## 1717 | 1 | 0 | 0 | 10 | 14860 | 0 | 0 | 1 |
| ## 1718 | 1 | 0 | 2 | 11 | 26350 | 3683 | 2 | 5 |
| ## 1719 | 1 | 0 | 0 | 10 | 19710 | 49380 | 1 | 7 |
| ## 1722 | 1 | 0 | 2 | 0 | 4500 | 0 | 0 | 8 |
| ## 1723 | 1 | 0 | 0 | 0 | 6200 | 7304 | 3 | 1 |
| ## 1724 | 1 | 0 | 1 | 7 | 4500 | 3923 | 2 | 1 |
| ## 1725 | 1 | 0 | 0 | 9 | 11530 | 7003 | 1 | 9 |
| ## 1726 | 1 | 0 | 3 | 0 | 5110 | 0 | 0 | 7 |
| ## 1727 | 1 | 0 | 0 | 8 | 22110 | 6935 | 1 | 19 |
| ## 1729 | 1 | 0 | 3 | 13 | 31510 | 4278 | 1 | 1 |
| ## 1730 | 1 | 0 | 0 | 5 | 7500 | 5035 | 1 | 13 |
| ## 1732 | 1 | 0 | 2 | 13 | 15570 | 0 | 0 | 9 |
| ## 1733 | 1 | 0 | 0 | 13 | 19860 | 28642 | 3 | 11 |
| ## 1734 | 1 | 0 | 2 | 9 | 4800 | 0 | 0 | 5 |
| ## 1735 | 1 | 0 | 0 | 0 | 6100 | 5348 | 4 | 12 |
| ## 1736 | 1 | 0 | 0 | 10 | 11410 | 0 | 0 | 1 |
| ## 1737 | 1 | 0 | 0 | 10 | 24380 | 3233 | 3 | 11 |
| ## 1738 | 1 | 1 | 2 | 16 | 28800 | 6407 | 1 | 12 |
| ## 1741 | 1 | 0 | 1 | 18 | 6600 | 32674 | 3 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1742 | 1 | 2 | 3 | 17 | 20610 | 0 | 0 | 8 |
| ## 1743 | 1 | 0 | 0 | 9 | 12070 | 1529 | 3 | 12 |
| ## 1744 | 1 | 0 | 1 | 10 | 8760 | 6188 | 1 | 1 |
| ## 1745 | 1 | 0 | 0 | 11 | 26880 | 20061 | 3 | 12 |
| ## 1746 | 1 | 0 | 3 | 16 | 11730 | 5715 | 2 | 6 |
| ## 1748 | 1 | 0 | 0 | 10 | 14410 | 9513 | 1 | 7 |
| ## 1749 | 1 | 0 | 0 | 8 | 7300 | 4717 | 3 | 8 |
| ## 1751 | 1 | 2 | 2 | 13 | 15930 | 2718 | 2 | 1 |
| ## 1752 | 1 | 0 | 0 | 11 | 11860 | 0 | 0 | 1 |
| ## 1753 | 1 | 0 | 4 | 0 | 17650 | 0 | 0 | 1 |
| ## 1754 | 1 | 0 | 0 | 15 | 16850 | 7199 | 3 | 9 |
| ## 1755 | 1 | 0 | 0 | 12 | 10390 | 2319 | 2 | 13 |
| ## 1756 | 1 | 0 | 2 | 12 | 9610 | 3698 | 2 | 1 |
| ## 1757 | 1 | 0 | 1 | 10 | 23660 | 4415 | 1 | 8 |
| ## 1760 | 1 | 0 | 0 | 11 | 10230 | 0 | 0 | 1 |
| ## 1761 | 1 | 0 | 0 | 2 | 12820 | 0 | 0 | 9 |
| ## 1762 | 1 | 0 | 0 | 12 | 15210 | 34575 | 2 | 6 |
| ## 1763 | 1 | 1 | 1 | 15 | 5670 | 4906 | 2 | 19 |
| ## 1764 | 1 | 0 | 0 | 10 | 10410 | 10930 | 3 | 6 |
| ## 1765 | 1 | 0 | 3 | 11 | 6000 | 0 | 0 | 1 |
| ## 1767 | 1 | 0 | 0 | 12 | 5720 | 15635 | 2 | 6 |
| ## 1768 | 1 | 3 | 3 | 13 | 38900 | 21033 | 2 | 1 |
| ## 1770 | 1 | 0 | 0 | 11 | 10670 | 0 | 0 | 10 |
| ## 1771 | 1 | 0 | 0 | 7 | 11460 | 1552 | 2 | 10 |
| ## 1772 | 1 | 0 | 2 | 11 | 4200 | 10679 | 2 | 6 |
| ## 1773 | 1 | 0 | 2 | 10 | 5200 | 44231 | 2 | 8 |
| ## 1774 | 1 | 0 | 0 | 12 | 7700 | 0 | 0 | 10 |
| ## 1775 | 1 | 0 | 0 | 15 | 29850 | 6600 | 3 | 1 |
| ## 1776 | 1 | 0 | 0 | 11 | 12040 | 5396 | 1 | 1 |
| ## 1779 | 1 | 0 | 2 | 13 | 14330 | 0 | 0 | 14 |
| ## 1780 | 1 | 1 | 3 | 14 | 21690 | 30553 | 3 | 18 |
| ## 1781 | 1 | 2 | 3 | 8 | 23790 | 39271 | 2 | 1 |
| ## 1782 | 1 | 0 | 0 | 8 | 8110 | 32580 | 2 | 6 |
| ## 1783 | 1 | 0 | 0 | 0 | 6200 | 0 | 0 | 9 |
| ## 1784 | 1 | 2 | 2 | 12 | 5400 | 5346 | 2 | 20 |
| ## 1786 | 1 | 1 | 3 | 15 | 33110 | 610 | 4 | 4 |
| ## 1787 | 1 | 0 | 0 | 12 | 11780 | 0 | 0 | 11 |
| ## 1789 | 1 | 0 | 0 | 11 | 24370 | 10457 | 2 | 11 |
| ## 1790 | 1 | 0 | 1 | 12 | 6850 | 40703 | 2 | 7 |
| ## 1791 | 1 | 0 | 0 | 11 | 38290 | 14968 | 1 | 18 |
| ## 1792 | 1 | 0 | 1 | 10 | 22330 | 0 | 0 | 1 |
| ## 1793 | 1 | 1 | 1 | 2 | 15700 | 0 | 0 | 19 |
| ## 1794 | 1 | 0 | 0 | 12 | 9310 | 0 | 0 | 14 |
| ## 1795 | 1 | 0 | 0 | 13 | 13540 | 10345 | 2 | 1 |
| ## 1798 | 1 | 0 | 0 | 8 | 17220 | 5765 | 2 | 12 |
| ## 1799 | 1 | 0 | 1 | 10 | 18850 | 0 | 0 | 1 |
| ## 1800 | 1 | 3 | 3 | 17 | 5620 | 0 | 0 | 1 |
| ## 1801 | 1 | 0 | 3 | 14 | 6210 | 24066 | 1 | 8 |
| ## 1802 | 1 | 0 | 0 | 0 | 28620 | 0 | 0 | 12 |
| ## 1803 | 1 | 0 | 0 | 15 | 14770 | 7456 | 2 | 1 |
| ## 1805 | 1 | 0 | 0 | 11 | 1500 | 0 | 0 | 1 |
| ## 1806 | 1 | 0 | 0 | 10 | 9200 | 4633 | 1 | 1 |
| ## 1808 | 1 | 0 | 2 | 0 | 7400 | 3903 | 4 | 11 |
| ## 1809 | 1 | 0 | 0 | 11 | 12720 | 7872 | 1 | 4 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1810 | 1 | 3 | 0 | 12 | 10410 | 0 | 0 | 19 |
| ## 1811 | 1 | 0 | 2 | 7 | 26220 | 9960 | 2 | 1 |
| ## 1812 | 1 | 0 | 0 | 13 | 16710 | 4086 | 4 | 16 |
| ## 1813 | 1 | 0 | 0 | 16 | 14560 | 25947 | 1 | 9 |
| ## 1814 | 1 | 0 | 1 | 15 | 4100 | 4364 | 5 | 17 |
| ## 1817 | 1 | 0 | 4 | 0 | 17350 | 1430 | 2 | 5 |
| ## 1818 | 1 | 0 | 0 | 9 | 17650 | 0 | 0 | 1 |
| ## 1819 | 1 | 0 | 0 | 7 | 10040 | 0 | 0 | 7 |
| ## 1820 | 1 | 0 | 3 | 8 | 8450 | 0 | 0 | 1 |
| ## 1821 | 1 | 0 | 0 | 0 | 2590 | 5559 | 1 | 9 |
| ## 1822 | 1 | 0 | 0 | 15 | 28690 | 11068 | 3 | 1 |
| ## 1824 | 1 | 1 | 0 | 11 | 9090 | 6583 | 2 | 1 |
| ## 1825 | 1 | 0 | 1 | 10 | 21920 | 0 | 0 | 10 |
| ## 1828 | 1 | 0 | 3 | 13 | 27240 | 3460 | 2 | 7 |
| ## 1829 | 1 | 0 | 2 | 8 | 13890 | 6465 | 3 | 7 |
| ## 1830 | 1 | 0 | 2 | 12 | 23830 | 0 | 0 | 1 |
| ## 1831 | 1 | 1 | 2 | 12 | 8620 | 5289 | 2 | 1 |
| ## 1832 | 1 | 0 | 0 | 14 | 17480 | 0 | 0 | 1 |
| ## 1833 | 1 | 2 | 3 | 13 | 8330 | 3401 | 2 | 1 |
| ## 1834 | 1 | 0 | 2 | 10 | 10050 | 5433 | 3 | 1 |
| ## 1837 | 1 | 0 | 0 | 8 | 5000 | 0 | 0 | 9 |
| ## 1838 | 1 | 0 | 2 | 13 | 27240 | 7776 | 2 | 7 |
| ## 1839 | 1 | 0 | 0 | 14 | 4680 | 6909 | 4 | 1 |
| ## 1840 | 1 | 0 | 0 | 11 | 21880 | 702 | 3 | 7 |
| ## 1841 | 1 | 0 | 2 | 11 | 7750 | 2741 | 2 | 1 |
| ## 1842 | 1 | 0 | 2 | 10 | 6210 | 7098 | 3 | 7 |
| ## 1844 | 1 | 0 | 2 | 14 | 5430 | 6570 | 2 | 1 |
| ## 1845 | 1 | 2 | 3 | 12 | 17370 | 0 | 0 | 7 |
| ## 1847 | 1 | 0 | 0 | 13 | 8390 | 9019 | 3 | 9 |
| ## 1848 | 1 | 2 | 3 | 14 | 9690 | 34514 | 1 | 12 |
| ## 1849 | 1 | 0 | 3 | 0 | 5580 | 12048 | 3 | 1 |
| ## 1850 | 1 | 1 | 2 | 11 | 10320 | 0 | 0 | 7 |
| ## 1851 | 1 | 0 | 1 | 11 | 8860 | 0 | 0 | 1 |
| ## 1852 | 1 | 0 | 0 | 9 | 10740 | 8784 | 3 | 8 |
| ## 1853 | 1 | 0 | 0 | 14 | 30070 | 5008 | 1 | 9 |
| ## 1856 | 1 | 0 | 0 | 13 | 13580 | 3668 | 4 | 11 |
| ## 1857 | 1 | 0 | 1 | 13 | 26780 | 0 | 0 | 2 |
| ## 1858 | 1 | 0 | 2 | 0 | 17700 | 4211 | 2 | 6 |
| ## 1859 | 1 | 2 | 3 | 8 | 15770 | 8174 | 3 | 15 |
| ## 1860 | 1 | 2 | 3 | 12 | 22050 | 0 | 0 | 4 |
| ## 1861 | 1 | 0 | 0 | 12 | 14620 | 0 | 0 | 1 |
| ## 1863 | 1 | 0 | 2 | 12 | 18850 | 2665 | 3 | 9 |
| ## 1864 | 1 | 0 | 0 | 11 | 19610 | 8924 | 1 | 1 |
| ## 1866 | 1 | 0 | 0 | 10 | 5130 | 4158 | 1 | 11 |
| ## 1867 | 1 | 0 | 0 | 9 | 14520 | 7191 | 1 | 1 |
| ## 1868 | 1 | 0 | 0 | 10 | 16140 | 0 | 0 | 13 |
| ## 1869 | 1 | 1 | 3 | 14 | 22560 | 0 | 0 | 10 |
| ## 1870 | 1 | 0 | 0 | 7 | 3930 | 1156 | 1 | 10 |
| ## 1871 | 1 | 2 | 3 | 15 | 18290 | 3639 | 2 | 19 |
| ## 1872 | 1 | 0 | 3 | 11 | 9010 | 0 | 0 | 10 |
| ## 1875 | 1 | 0 | 0 | 14 | 20200 | 5685 | 2 | 1 |
| ## 1876 | 1 | 0 | 0 | 13 | 23530 | 0 | 0 | 21 |
| ## 1877 | 1 | 0 | 0 | 0 | 6900 | 0 | 0 | 7 |
| ## 1878 | 1 | 0 | 0 | 0 | 6800 | 1930 | 2 | 6 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1879 | 1 | 0 | 0 | 13 | 16640 | 10215 | 2 | 10 |
| ## 1880 | 1 | 0 | 0 | 8 | 9030 | 0 | 0 | 9 |
| ## 1882 | 1 | 0 | 0 | 11 | 28090 | 0 | 0 | 1 |
| ## 1883 | 1 | 0 | 0 | 8 | 16710 | 8490 | 3 | 10 |
| ## 1885 | 1 | 0 | 0 | 12 | 10480 | 27414 | 2 | 8 |
| ## 1886 | 1 | 0 | 0 | 13 | 7600 | 1904 | 3 | 6 |
| ## 1887 | 1 | 1 | 3 | 12 | 24820 | 0 | 0 | 13 |
| ## 1888 | 1 | 0 | 0 | 14 | 16810 | 1351 | 3 | 16 |
| ## 1889 | 1 | 2 | 4 | 14 | 12160 | 0 | 0 | 6 |
| ## 1890 | 1 | 0 | 0 | 9 | 24810 | 0 | 0 | 9 |
| ## 1891 | 1 | 0 | 0 | 8 | 13260 | 26321 | 4 | 10 |
| ## 1894 | 1 | 0 | 1 | 9 | 14340 | 0 | 0 | 7 |
| ## 1895 | 1 | 0 | 0 | 11 | 33910 | 5464 | 3 | 13 |
| ## 1896 | 1 | 0 | 0 | 16 | 17790 | 3902 | 2 | 15 |
| ## 1897 | 1 | 0 | 2 | 12 | 15550 | 0 | 0 | 1 |
| ## 1898 | 1 | 0 | 0 | 6 | 18210 | 7619 | 1 | 1 |
| ## 1899 | 1 | 0 | 1 | 8 | 22810 | 4686 | 1 | 1 |
| ## 1901 | 1 | 1 | 4 | 13 | 21510 | 3719 | 1 | 8 |
| ## 1902 | 1 | 0 | 0 | 8 | 15180 | 3893 | 1 | 9 |
| ## 1904 | 1 | 0 | 0 | 0 | 17890 | 0 | 0 | 5 |
| ## 1905 | 1 | 0 | 0 | 13 | 4790 | 0 | 0 | 1 |
| ## 1906 | 1 | 0 | 2 | 17 | 5700 | 0 | 0 | 7 |
| ## 1907 | 1 | 0 | 3 | 0 | 6130 | 0 | 0 | 1 |
| ## 1908 | 1 | 0 | 0 | 11 | 13190 | 6032 | 3 | 12 |
| ## 1909 | 1 | 0 | 0 | 13 | 4980 | 7795 | 2 | 9 |
| ## 1910 | 1 | 0 | 4 | 12 | 5400 | 2781 | 3 | 11 |
| ## 1913 | 1 | 0 | 2 | 10 | 10130 | 28174 | 2 | 1 |
| ## 1914 | 1 | 0 | 3 | 0 | 4300 | 0 | 0 | 6 |
| ## 1915 | 1 | 0 | 3 | 15 | 8140 | 0 | 0 | 6 |
| ## 1916 | 1 | 0 | 3 | 12 | 40520 | 0 | 0 | 6 |
| ## 1917 | 1 | 0 | 0 | 13 | 14580 | 47097 | 3 | 18 |
| ## 1918 | 1 | 0 | 0 | 11 | 20040 | 6713 | 3 | 14 |
| ## 1920 | 1 | 0 | 0 | 12 | 18640 | 0 | 0 | 8 |
| ## 1921 | 1 | 0 | 0 | 12 | 16760 | 7369 | 1 | 8 |
| ## 1923 | 1 | 0 | 3 | 17 | 11630 | 0 | 0 | 11 |
| ## 1924 | 1 | 0 | 0 | 13 | 15440 | 1125 | 1 | 11 |
| ## 1925 | 1 | 0 | 1 | 11 | 19980 | 0 | 0 | 5 |
| ## 1926 | 1 | 0 | 3 | 0 | 4950 | 8438 | 1 | 6 |
| ## 1927 | 1 | 0 | 0 | 7 | 18680 | 0 | 0 | 17 |
| ## 1928 | 1 | 0 | 0 | 13 | 27830 | 3589 | 1 | 10 |
| ## 1929 | 1 | 1 | 1 | 10 | 21090 | 1942 | 1 | 6 |
| ## 1932 | 1 | 0 | 2 | 11 | 4800 | 0 | 0 | 1 |
| ## 1933 | 1 | 0 | 0 | 6 | 19980 | 0 | 0 | 8 |
| ## 1934 | 1 | 1 | 2 | 10 | 10070 | 40958 | 1 | 1 |
| ## 1935 | 1 | 0 | 0 | 9 | 12540 | 0 | 0 | 1 |
| ## 1936 | 1 | 0 | 0 | 13 | 7620 | 5513 | 2 | 1 |
| ## 1937 | 1 | 0 | 0 | 14 | 17520 | 0 | 0 | 8 |
| ## 1939 | 1 | 0 | 0 | 10 | 7660 | 2054 | 2 | 1 |
| ## 1940 | 1 | 1 | 2 | 9 | 15250 | 2213 | 3 | 6 |
| ## 1942 | 1 | 0 | 0 | 0 | 14590 | 7540 | 3 | 19 |
| ## 1943 | 1 | 0 | 1 | 12 | 10250 | 31332 | 5 | 11 |
| ## 1944 | 1 | 0 | 0 | 13 | 27800 | 0 | 0 | 1 |
| ## 1945 | 1 | 0 | 0 | 13 | 26470 | 0 | 0 | 1 |
| ## 1946 | 1 | 0 | 1 | 13 | 16230 | 5330 | 1 | 1 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 1947 | 1 | 0 | 0 | 12 | 22340 | 0 | 0 | 11 |
| ## 1948 | 1 | 0 | 0 | 12 | 9680 | 0 | 0 | 9 |
| ## 1951 | 1 | 0 | 2 | 16 | 19560 | 44029 | 4 | 18 |
| ## 1952 | 1 | 1 | 3 | 14 | 22860 | 1361 | 2 | 13 |
| ## 1953 | 1 | 0 | 0 | 9 | 38500 | 0 | 0 | 1 |
| ## 1954 | 1 | 1 | 2 | 16 | 18100 | 4646 | 2 | 10 |
| ## 1955 | 1 | 0 | 0 | 14 | 22180 | 0 | 0 | 15 |
| ## 1956 | 1 | 0 | 0 | 14 | 6200 | 11068 | 3 | 1 |
| ## 1958 | 1 | 0 | 3 | 0 | 16720 | 0 | 0 | 1 |
| ## 1959 | 1 | 0 | 0 | 12 | 6400 | 3034 | 2 | 7 |
| ## 1961 | 1 | 0 | 0 | 5 | 11240 | 0 | 0 | 1 |
| ## 1962 | 1 | 0 | 0 | 11 | 7170 | 8547 | 1 | 8 |
| ## 1963 | 1 | 1 | 2 | 14 | 18110 | 0 | 0 | 11 |
| ## 1964 | 1 | 0 | 0 | 0 | 6200 | 4962 | 1 | 9 |
| ## 1965 | 1 | 1 | 1 | 12 | 10600 | 9995 | 1 | 1 |
| ## 1966 | 1 | 0 | 3 | 8 | 20150 | 0 | 0 | 1 |
| ## 1967 | 1 | 1 | 1 | 17 | 11510 | 42970 | 1 | 1 |
| ## 1970 | 1 | 0 | 0 | 12 | 29370 | 4174 | 2 | 15 |
| ## 1971 | 1 | 0 | 0 | 0 | 18610 | 0 | 0 | 12 |
| ## 1972 | 1 | 0 | 0 | 13 | 16530 | 5828 | 1 | 11 |
| ## 1973 | 1 | 0 | 1 | 5 | 17800 | 5269 | 1 | 5 |
| ## 1974 | 1 | 0 | 0 | 13 | 19260 | 0 | 0 | 6 |
| ## 1975 | 1 | 0 | 0 | 9 | 16110 | 3062 | 1 | 1 |
| ## 1977 | 1 | 1 | 1 | 7 | 21530 | 1913 | 1 | 1 |
| ## 1978 | 1 | 0 | 0 | 13 | 22610 | 0 | 0 | 9 |
| ## 1980 | 1 | 0 | 0 | 12 | 12150 | 0 | 0 | 10 |
| ## 1981 | 1 | 0 | 0 | 13 | 16450 | 1064 | 2 | 3 |
| ## 1982 | 1 | 0 | 1 | 10 | 14460 | 15697 | 2 | 10 |
| ## 1983 | 1 | 0 | 1 | 0 | 15610 | 7857 | 2 | 1 |
| ## 1984 | 1 | 0 | 0 | 6 | 14340 | 0 | 0 | 10 |
| ## 1985 | 1 | 0 | 0 | 0 | 17050 | 2962 | 1 | 1 |
| ## 1986 | 1 | 0 | 4 | 13 | 6650 | 0 | 0 | 6 |
| ## 1989 | 1 | 0 | 0 | 0 | 29200 | 0 | 0 | 6 |
| ## 1990 | 1 | 1 | 2 | 13 | 13660 | 4394 | 4 | 1 |
| ## 1991 | 1 | 0 | 0 | 10 | 34210 | 2773 | 1 | 1 |
| ## 1992 | 1 | 2 | 0 | 0 | 7270 | 2280 | 3 | 12 |
| ## 1993 | 1 | 0 | 0 | 9 | 11210 | 7312 | 1 | 8 |
| ## 1994 | 1 | 0 | 2 | 12 | 21980 | 1310 | 1 | 15 |
| ## 1996 | 1 | 0 | 0 | 12 | 14610 | 0 | 0 | 10 |
| ## 1997 | 1 | 0 | 0 | 11 | 13610 | 0 | 0 | 5 |
| ## 1999 | 1 | 0 | 0 | 12 | 8510 | 5233 | 2 | 1 |
| ## 2000 | 1 | 0 | 0 | 15 | 20320 | 21548 | 2 | 17 |
| ## 2001 | 1 | 0 | 2 | 14 | 18040 | 0 | 0 | 11 |
| ## 2002 | 1 | 0 | 0 | 11 | 21420 | 6440 | 1 | 8 |
| ## 2003 | 1 | 0 | 3 | 10 | 11520 | 0 | 0 | 21 |
| ## 2004 | 1 | 0 | 3 | 15 | 5000 | 3349 | 1 | 13 |
| ## 2005 | 1 | 0 | 0 | 13 | 22930 | 0 | 0 | 17 |
| ## 2008 | 1 | 0 | 0 | 14 | 18760 | 0 | 0 | 6 |
| ## 2009 | 1 | 0 | 0 | 6 | 22450 | 4986 | 2 | 17 |
| ## 2010 | 1 | 1 | 2 | 8 | 31350 | 1435 | 3 | 8 |
| ## 2011 | 1 | 0 | 0 | 7 | 20200 | 2913 | 1 | 1 |
| ## 2012 | 1 | 0 | 0 | 11 | 8200 | 25355 | 2 | 1 |
| ## 2013 | 1 | 0 | 0 | 12 | 10730 | 0 | 0 | 1 |
| ## 2015 | 1 | 0 | 0 | 14 | 23050 | 0 | 0 | 9 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 2016 | 1 | 0 | 2 | 11 | 13250 | 7716 | 3 | 8 |
| ## 2018 | 1 | 0 | 0 | 14 | 28330 | 607 | 3 | 7 |
| ## 2019 | 1 | 1 | 2 | 10 | 18900 | 0 | 0 | 1 |
| ## 2020 | 1 | 3 | 4 | 16 | 13070 | 3664 | 1 | 1 |
| ## 2021 | 1 | 0 | 4 | 15 | 13990 | 2551 | 2 | 8 |
| ## 2022 | 1 | 0 | 0 | 3 | 23780 | 3808 | 2 | 9 |
| ## 2023 | 1 | 0 | 0 | 11 | 17030 | 2938 | 1 | 9 |
| ## 2024 | 1 | 0 | 2 | 11 | 8450 | 0 | 0 | 1 |
| ## 2027 | 1 | 0 | 0 | 12 | 16690 | 0 | 0 | 16 |
| ## 2028 | 1 | 0 | 0 | 12 | 9070 | 0 | 0 | 7 |
| ## 2029 | 1 | 0 | 0 | 9 | 28260 | 3320 | 2 | 13 |
| ## 2030 | 1 | 0 | 0 | 0 | 22070 | 0 | 0 | 1 |
| ## 2031 | 1 | 0 | 0 | 15 | 20750 | 0 | 0 | 15 |
| ## 2032 | 1 | 0 | 2 | 13 | 19150 | 32871 | 1 | 8 |
| ## 2034 | 1 | 0 | 0 | 13 | 11130 | 5712 | 4 | 1 |
| ## 2035 | 1 | 2 | 3 | 7 | 12330 | 0 | 0 | 9 |
| ## 2037 | 1 | 0 | 3 | 16 | 4900 | 0 | 0 | 1 |
| ## 2038 | 1 | 0 | 0 | 11 | 18110 | 2060 | 3 | 3 |
| ## 2039 | 1 | 0 | 4 | 16 | 2340 | 6013 | 2 | 8 |
| ## 2040 | 1 | 0 | 0 | 11 | 21170 | 0 | 0 | 15 |
| ## 2041 | 1 | 2 | 2 | 6 | 7370 | 3588 | 3 | 4 |
| ## 2042 | 1 | 0 | 0 | 14 | 9040 | 0 | 0 | 1 |
| ## 2043 | 1 | 0 | 2 | 0 | 5500 | 0 | 0 | 11 |
| ## 2046 | 1 | 0 | 0 | 14 | 22740 | 0 | 0 | 1 |
| ## 2047 | 1 | 0 | 3 | 15 | 3900 | 0 | 0 | 1 |
| ## 2048 | 1 | 0 | 0 | 12 | 5730 | 32025 | 3 | 6 |
| ## 2049 | 1 | 0 | 2 | 13 | 5400 | 7415 | 3 | 4 |
| ## 2050 | 1 | 1 | 2 | 15 | 30870 | 41476 | 1 | 12 |
| ## 2051 | 1 | 0 | 0 | 15 | 13060 | 23213 | 2 | 8 |
| ## 2053 | 1 | 0 | 0 | 0 | 3430 | 0 | 0 | 11 |
| ## 2054 | 1 | 0 | 4 | 0 | 13900 | 3682 | 3 | 8 |
| ## 2056 | 1 | 1 | 2 | 8 | 19050 | 0 | 0 | 13 |
| ## 2057 | 1 | 0 | 0 | 6 | 22610 | 2161 | 2 | 8 |
| ## 2058 | 1 | 0 | 0 | 14 | 27620 | 0 | 0 | 6 |
| ## 2059 | 1 | 0 | 1 | 12 | 8850 | 31658 | 2 | 10 |
| ## 2060 | 1 | 0 | 0 | 14 | 8900 | 6281 | 2 | 8 |
| ## 2061 | 1 | 0 | 0 | 9 | 9640 | 33018 | 2 | 7 |
| ## 2062 | 1 | 0 | 0 | 12 | 9800 | 30167 | 3 | 11 |
| ## 2065 | 1 | 0 | 0 | 13 | 34800 | 3306 | 2 | 11 |
| ## 2066 | 1 | 1 | 1 | 15 | 11490 | 25260 | 1 | 2 |
| ## 2067 | 1 | 0 | 0 | 11 | 8020 | 846 | 1 | 1 |
| ## 2068 | 1 | 0 | 0 | 9 | 6620 | 4093 | 3 | 8 |
| ## 2069 | 1 | 0 | 0 | 12 | 14140 | 40023 | 3 | 1 |
| ## 2070 | 1 | 0 | 0 | 7 | 13780 | 8593 | 3 | 9 |
| ## 2072 | 1 | 3 | 3 | 13 | 28630 | 3440 | 1 | 16 |
| ## 2073 | 1 | 0 | 0 | 9 | 20390 | 0 | 0 | 7 |
| ## 2075 | 1 | 0 | 0 | 10 | 11550 | 17831 | 2 | 13 |
| ## 2076 | 1 | 2 | 2 | 14 | 6420 | 12003 | 2 | 1 |
| ## 2077 | 1 | 0 | 0 | 7 | 7030 | 0 | 0 | 1 |
| ## 2078 | 1 | 0 | 0 | 11 | 18430 | 0 | 0 | 10 |
| ## 2079 | 1 | 0 | 0 | 9 | 7420 | 4274 | 3 | 21 |
| ## 2080 | 1 | 0 | 0 | 11 | 5020 | 2225 | 3 | 9 |
| ## 2081 | 1 | 2 | 3 | 12 | 10580 | 8829 | 2 | 18 |
| ## 2084 | 1 | 0 | 0 | 14 | 6690 | 0 | 0 | 14 |

| | | | | | | | | |
|---------|---|---|---|----|-------|-------|---|----|
| ## 2085 | 1 | 0 | 0 | 12 | 8790 | 0 | 0 | 10 |
| ## 2086 | 1 | 0 | 0 | 0 | 13030 | 2334 | 1 | 15 |
| ## 2087 | 1 | 0 | 2 | 15 | 6090 | 2312 | 3 | 7 |
| ## 2088 | 1 | 0 | 0 | 12 | 5200 | 1020 | 1 | 1 |
| ## 2089 | 1 | 0 | 0 | 11 | 10630 | 0 | 0 | 1 |
| ## 2091 | 1 | 0 | 2 | 0 | 4000 | 9870 | 2 | 1 |
| ## 2092 | 1 | 0 | 0 | 7 | 22820 | 0 | 0 | 12 |
| ## 2094 | 1 | 2 | 2 | 13 | 23610 | 30328 | 1 | 16 |
| ## 2095 | 1 | 0 | 0 | 12 | 14500 | 48298 | 1 | 20 |
| ## 2096 | 1 | 0 | 0 | 10 | 21170 | 20699 | 2 | 8 |
| ## 2097 | 1 | 0 | 0 | 0 | 12540 | 25429 | 2 | 11 |
| ## 2098 | 1 | 1 | 1 | 0 | 6900 | 0 | 0 | 10 |
| ## 2099 | 1 | 0 | 0 | 6 | 17630 | 0 | 0 | 1 |
| ## 2100 | 1 | 0 | 0 | 12 | 13960 | 34479 | 3 | 4 |
| ## 2103 | 1 | 0 | 1 | 14 | 36980 | 0 | 0 | 5 |
| ## 2104 | 1 | 0 | 2 | 11 | 8620 | 0 | 0 | 1 |
| ## 2105 | 1 | 0 | 0 | 0 | 21490 | 47096 | 2 | 1 |
| ## 2106 | 1 | 0 | 2 | 0 | 5800 | 792 | 2 | 1 |
| ## 2107 | 1 | 0 | 0 | 13 | 4610 | 1852 | 2 | 6 |
| ## 2108 | 1 | 0 | 0 | 11 | 7000 | 621 | 3 | 1 |
| ## 2110 | 1 | 0 | 0 | 15 | 31570 | 0 | 0 | 1 |
| ## 2111 | 1 | 0 | 1 | 14 | 12500 | 8963 | 1 | 7 |
| ## 2113 | 1 | 0 | 0 | 14 | 27450 | 3689 | 4 | 18 |
| ## 2114 | 1 | 0 | 0 | 10 | 12790 | 4538 | 4 | 11 |
| ## 2115 | 1 | 0 | 1 | 12 | 26750 | 48873 | 2 | 24 |
| ## 2116 | 1 | 0 | 1 | 7 | 11890 | 0 | 0 | 9 |
| ## 2117 | 1 | 3 | 5 | 14 | 16570 | 7621 | 2 | 1 |
| ## 2118 | 1 | 2 | 3 | 18 | 18780 | 23486 | 2 | 1 |
| ## 2119 | 1 | 0 | 0 | 12 | 5700 | 8256 | 3 | 1 |
| ## 2122 | 1 | 0 | 0 | 7 | 7820 | 0 | 0 | 18 |
| ## 2123 | 1 | 0 | 0 | 11 | 16020 | 7629 | 2 | 9 |
| ## 2124 | 1 | 0 | 0 | 11 | 9870 | 3296 | 1 | 1 |
| ## 2125 | 1 | 0 | 0 | 13 | 18780 | 4188 | 2 | 1 |
| ## 2126 | 1 | 2 | 2 | 12 | 10160 | 0 | 0 | 1 |
| ## 2127 | 1 | 0 | 0 | 6 | 16810 | 0 | 0 | 11 |
| ## 2129 | 1 | 2 | 2 | 12 | 25960 | 0 | 0 | 1 |
| ## 2130 | 1 | 0 | 0 | 13 | 9260 | 2102 | 1 | 1 |
| ## 2132 | 1 | 0 | 1 | 0 | 4750 | 4074 | 1 | 9 |
| ## 2133 | 1 | 0 | 0 | 10 | 12600 | 0 | 0 | 6 |
| ## 2134 | 1 | 0 | 0 | 15 | 15320 | 0 | 0 | 7 |
| ## 2135 | 1 | 0 | 0 | 14 | 9730 | 0 | 0 | 11 |
| ## 2136 | 1 | 2 | 2 | 13 | 19970 | 18287 | 3 | 11 |
| ## 2137 | 1 | 1 | 1 | 10 | 13930 | 9537 | 2 | 16 |
| ## 2138 | 1 | 0 | 3 | 0 | 5700 | 0 | 0 | 1 |
| ## 2141 | 1 | 0 | 0 | 11 | 5730 | 0 | 0 | 11 |
| ## 2142 | 1 | 0 | 0 | 13 | 17110 | 9550 | 2 | 13 |
| ## 2143 | 1 | 0 | 0 | 14 | 14670 | 0 | 0 | 7 |
| ## 2144 | 1 | 0 | 0 | 15 | 13420 | 1255 | 4 | 1 |
| ## 2145 | 1 | 1 | 1 | 15 | 20850 | 0 | 0 | 9 |
| ## 2146 | 1 | 1 | 2 | 14 | 26470 | 0 | 0 | 6 |
| ## 2148 | 1 | 0 | 0 | 10 | 24020 | 22762 | 1 | 20 |
| ## 2149 | 1 | 0 | 0 | 13 | 34420 | 0 | 0 | 16 |
| ## 2151 | 1 | 0 | 0 | 10 | 12940 | 6560 | 3 | 11 |
| ## 2152 | 1 | 0 | 0 | 12 | 1500 | 0 | 0 | 10 |

```

## 2153      1      0      0  11   11300    16239      2      1
##      MSTATUS_Yes CAR_TYPE_Panel.Truck REVOKED_Yes EDUCATION_.High.School
## 1          0          0          0          0          0
## 3          0          0          0          0          0
## 4          0          0          0          0          0
## 5          0          1          0          0          0
## 6          1          0          0          0          1
## 7          1          0          0          0          0
## 8          1          1          0          0          1
## 9          1          0          0          0          0
## 12         1          0          1          0          0
## 13         0          0          0          0          0
## 14         1          0          0          0          0
## 15         0          0          1          0          1
## 16         0          0          0          0          0
## 17         0          0          0          0          0
## 19         1          0          0          0          0
## 20         1          0          0          0          0
## 22         1          0          0          0          0
## 23         0          1          0          0          0
## 24         0          0          0          0          0
## 25         1          0          0          0          0
## 26         1          0          0          0          0
## 27         1          0          0          0          1
## 28         0          0          0          0          0
## 31         0          0          1          0          0
## 32         0          0          0          0          1
## 33         0          0          0          0          0
## 34         1          0          1          0          1
## 35         1          0          0          0          0
## 36         0          0          0          0          0
## 38         0          0          1          0          0
## 39         1          0          0          0          0
## 41         0          0          1          0          0
## 42         1          0          0          0          0
## 43         0          1          1          0          0
## 44         1          0          0          0          1
## 45         1          0          0          0          1
## 46         0          0          0          0          0
## 47         0          0          0          0          0
## 50         0          0          0          0          1
## 51         1          0          1          0          1
## 52         0          0          0          0          0
## 53         1          0          0          0          0
## 54         1          0          0          0          0
## 55         0          0          0          0          0
## 57         0          0          0          0          1
## 58         1          0          0          0          0
## 60         0          0          0          0          0
## 61         0          0          0          0          0
## 62         0          0          0          0          0
## 63         1          1          0          0          0
## 64         0          0          0          0          0
## 65         0          0          0          0          0

```

| | | | | |
|--------|---|---|---|---|
| ## 66 | 0 | 0 | 1 | 1 |
| ## 69 | 1 | 0 | 1 | 0 |
| ## 70 | 1 | 0 | 0 | 0 |
| ## 71 | 1 | 0 | 0 | 0 |
| ## 72 | 0 | 0 | 1 | 0 |
| ## 73 | 0 | 0 | 0 | 0 |
| ## 74 | 1 | 0 | 0 | 0 |
| ## 76 | 1 | 0 | 1 | 0 |
| ## 77 | 0 | 0 | 0 | 0 |
| ## 79 | 1 | 0 | 0 | 0 |
| ## 80 | 1 | 0 | 0 | 0 |
| ## 81 | 0 | 1 | 0 | 0 |
| ## 82 | 1 | 0 | 0 | 0 |
| ## 83 | 1 | 0 | 1 | 0 |
| ## 84 | 0 | 1 | 0 | 0 |
| ## 85 | 0 | 1 | 1 | 1 |
| ## 88 | 0 | 0 | 0 | 1 |
| ## 89 | 1 | 0 | 1 | 1 |
| ## 90 | 1 | 0 | 1 | 0 |
| ## 91 | 1 | 0 | 0 | 0 |
| ## 92 | 0 | 1 | 0 | 0 |
| ## 93 | 1 | 0 | 0 | 0 |
| ## 95 | 1 | 0 | 0 | 0 |
| ## 96 | 1 | 0 | 0 | 0 |
| ## 98 | 1 | 0 | 0 | 0 |
| ## 99 | 0 | 0 | 0 | 0 |
| ## 100 | 0 | 0 | 0 | 0 |
| ## 101 | 0 | 0 | 1 | 0 |
| ## 102 | 1 | 0 | 0 | 1 |
| ## 103 | 1 | 0 | 1 | 1 |
| ## 104 | 1 | 0 | 1 | 0 |
| ## 107 | 1 | 0 | 1 | 0 |
| ## 108 | 1 | 0 | 0 | 0 |
| ## 109 | 1 | 0 | 0 | 1 |
| ## 110 | 0 | 0 | 1 | 0 |
| ## 111 | 0 | 0 | 0 | 0 |
| ## 112 | 0 | 0 | 0 | 0 |
| ## 114 | 1 | 0 | 0 | 0 |
| ## 115 | 1 | 0 | 0 | 0 |
| ## 117 | 1 | 0 | 0 | 0 |
| ## 118 | 0 | 0 | 0 | 0 |
| ## 119 | 0 | 0 | 0 | 1 |
| ## 120 | 1 | 0 | 0 | 1 |
| ## 121 | 1 | 0 | 0 | 0 |
| ## 122 | 0 | 0 | 1 | 0 |
| ## 123 | 1 | 0 | 0 | 0 |
| ## 126 | 0 | 0 | 1 | 0 |
| ## 127 | 0 | 0 | 0 | 0 |
| ## 128 | 1 | 0 | 1 | 0 |
| ## 129 | 0 | 0 | 0 | 1 |
| ## 130 | 1 | 0 | 0 | 0 |
| ## 131 | 0 | 1 | 1 | 0 |
| ## 133 | 0 | 0 | 0 | 0 |
| ## 134 | 0 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 136 | 1 | 0 | 1 | 0 |
| ## 137 | 0 | 0 | 0 | 0 |
| ## 138 | 0 | 0 | 0 | 0 |
| ## 139 | 1 | 1 | 0 | 0 |
| ## 140 | 0 | 0 | 0 | 1 |
| ## 141 | 0 | 0 | 0 | 0 |
| ## 142 | 0 | 0 | 0 | 0 |
| ## 145 | 1 | 0 | 0 | 1 |
| ## 146 | 1 | 0 | 1 | 0 |
| ## 147 | 0 | 0 | 0 | 0 |
| ## 148 | 0 | 0 | 0 | 0 |
| ## 149 | 0 | 0 | 0 | 0 |
| ## 150 | 0 | 1 | 0 | 0 |
| ## 152 | 1 | 0 | 0 | 0 |
| ## 153 | 0 | 0 | 0 | 0 |
| ## 155 | 0 | 0 | 0 | 1 |
| ## 156 | 0 | 0 | 0 | 0 |
| ## 157 | 0 | 0 | 0 | 0 |
| ## 158 | 1 | 0 | 1 | 0 |
| ## 159 | 0 | 0 | 0 | 0 |
| ## 160 | 0 | 0 | 0 | 1 |
| ## 161 | 0 | 0 | 0 | 0 |
| ## 164 | 1 | 0 | 0 | 0 |
| ## 165 | 1 | 0 | 1 | 0 |
| ## 166 | 0 | 0 | 1 | 0 |
| ## 167 | 0 | 0 | 0 | 0 |
| ## 168 | 1 | 0 | 0 | 0 |
| ## 169 | 0 | 0 | 0 | 0 |
| ## 171 | 1 | 0 | 0 | 0 |
| ## 172 | 1 | 0 | 0 | 0 |
| ## 174 | 0 | 0 | 0 | 0 |
| ## 175 | 0 | 0 | 1 | 0 |
| ## 176 | 0 | 0 | 0 | 0 |
| ## 177 | 1 | 0 | 0 | 0 |
| ## 178 | 1 | 0 | 1 | 0 |
| ## 179 | 1 | 0 | 1 | 0 |
| ## 180 | 1 | 0 | 0 | 0 |
| ## 183 | 0 | 0 | 0 | 0 |
| ## 184 | 1 | 1 | 0 | 0 |
| ## 185 | 1 | 0 | 0 | 0 |
| ## 186 | 1 | 0 | 0 | 0 |
| ## 187 | 1 | 0 | 0 | 0 |
| ## 188 | 0 | 0 | 0 | 0 |
| ## 190 | 0 | 0 | 1 | 0 |
| ## 191 | 1 | 0 | 0 | 0 |
| ## 193 | 0 | 0 | 0 | 0 |
| ## 194 | 1 | 0 | 1 | 0 |
| ## 195 | 0 | 0 | 0 | 0 |
| ## 196 | 1 | 0 | 0 | 0 |
| ## 197 | 0 | 0 | 0 | 0 |
| ## 198 | 0 | 0 | 0 | 0 |
| ## 199 | 1 | 0 | 0 | 0 |
| ## 202 | 1 | 0 | 0 | 0 |
| ## 203 | 1 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 204 | 0 | 0 | 0 | 0 |
| ## 205 | 0 | 0 | 1 | 0 |
| ## 206 | 0 | 0 | 0 | 0 |
| ## 207 | 0 | 0 | 0 | 0 |
| ## 209 | 0 | 0 | 1 | 0 |
| ## 210 | 1 | 0 | 0 | 0 |
| ## 212 | 1 | 0 | 0 | 0 |
| ## 213 | 0 | 0 | 0 | 0 |
| ## 214 | 1 | 0 | 0 | 0 |
| ## 215 | 1 | 0 | 0 | 0 |
| ## 216 | 1 | 0 | 0 | 0 |
| ## 217 | 0 | 0 | 0 | 0 |
| ## 218 | 0 | 0 | 0 | 0 |
| ## 221 | 0 | 0 | 0 | 0 |
| ## 222 | 1 | 0 | 1 | 0 |
| ## 223 | 1 | 0 | 0 | 0 |
| ## 224 | 0 | 0 | 1 | 0 |
| ## 225 | 0 | 0 | 0 | 1 |
| ## 226 | 1 | 0 | 0 | 0 |
| ## 228 | 0 | 1 | 0 | 0 |
| ## 229 | 1 | 0 | 0 | 0 |
| ## 231 | 0 | 0 | 0 | 0 |
| ## 232 | 1 | 0 | 1 | 0 |
| ## 233 | 1 | 0 | 0 | 0 |
| ## 234 | 0 | 0 | 0 | 0 |
| ## 235 | 0 | 0 | 0 | 0 |
| ## 236 | 1 | 0 | 0 | 0 |
| ## 237 | 1 | 0 | 0 | 0 |
| ## 240 | 1 | 0 | 1 | 0 |
| ## 241 | 1 | 0 | 0 | 0 |
| ## 242 | 1 | 0 | 0 | 1 |
| ## 243 | 1 | 0 | 0 | 0 |
| ## 244 | 1 | 0 | 1 | 0 |
| ## 245 | 1 | 1 | 1 | 0 |
| ## 247 | 1 | 0 | 0 | 0 |
| ## 248 | 1 | 0 | 0 | 1 |
| ## 250 | 1 | 0 | 1 | 0 |
| ## 251 | 0 | 0 | 0 | 0 |
| ## 252 | 1 | 0 | 1 | 0 |
| ## 253 | 0 | 0 | 0 | 1 |
| ## 254 | 1 | 0 | 1 | 1 |
| ## 255 | 0 | 0 | 0 | 0 |
| ## 256 | 0 | 0 | 0 | 1 |
| ## 259 | 0 | 0 | 0 | 0 |
| ## 260 | 1 | 0 | 0 | 0 |
| ## 261 | 1 | 0 | 0 | 0 |
| ## 262 | 0 | 0 | 0 | 0 |
| ## 263 | 1 | 0 | 1 | 1 |
| ## 264 | 0 | 0 | 0 | 0 |
| ## 266 | 1 | 0 | 0 | 0 |
| ## 267 | 0 | 0 | 0 | 1 |
| ## 269 | 1 | 0 | 0 | 0 |
| ## 270 | 0 | 0 | 0 | 1 |
| ## 271 | 1 | 0 | 0 | 1 |

| | | | | |
|--------|---|---|---|---|
| ## 272 | 1 | 0 | 1 | 0 |
| ## 273 | 0 | 0 | 0 | 1 |
| ## 274 | 0 | 0 | 0 | 0 |
| ## 275 | 0 | 0 | 0 | 1 |
| ## 278 | 1 | 0 | 1 | 0 |
| ## 279 | 0 | 0 | 1 | 1 |
| ## 280 | 1 | 0 | 0 | 0 |
| ## 281 | 1 | 0 | 0 | 0 |
| ## 282 | 1 | 0 | 0 | 0 |
| ## 283 | 1 | 0 | 0 | 0 |
| ## 285 | 0 | 0 | 0 | 0 |
| ## 286 | 0 | 0 | 0 | 0 |
| ## 288 | 1 | 0 | 0 | 0 |
| ## 289 | 1 | 0 | 0 | 0 |
| ## 290 | 0 | 0 | 0 | 0 |
| ## 291 | 1 | 0 | 1 | 1 |
| ## 292 | 1 | 0 | 0 | 0 |
| ## 293 | 0 | 0 | 1 | 1 |
| ## 294 | 1 | 0 | 0 | 0 |
| ## 297 | 1 | 0 | 0 | 0 |
| ## 298 | 1 | 0 | 0 | 0 |
| ## 299 | 0 | 0 | 0 | 1 |
| ## 300 | 0 | 0 | 0 | 0 |
| ## 301 | 1 | 0 | 1 | 0 |
| ## 302 | 0 | 0 | 1 | 0 |
| ## 304 | 1 | 0 | 0 | 0 |
| ## 305 | 1 | 0 | 1 | 0 |
| ## 307 | 1 | 0 | 0 | 1 |
| ## 308 | 0 | 0 | 0 | 0 |
| ## 309 | 0 | 0 | 0 | 0 |
| ## 310 | 1 | 0 | 0 | 0 |
| ## 311 | 1 | 0 | 0 | 1 |
| ## 312 | 1 | 0 | 0 | 0 |
| ## 313 | 1 | 0 | 1 | 0 |
| ## 316 | 0 | 0 | 0 | 0 |
| ## 317 | 1 | 0 | 0 | 0 |
| ## 318 | 0 | 0 | 1 | 0 |
| ## 319 | 1 | 0 | 0 | 0 |
| ## 320 | 0 | 1 | 0 | 0 |
| ## 321 | 1 | 0 | 0 | 0 |
| ## 323 | 1 | 0 | 1 | 0 |
| ## 324 | 1 | 0 | 0 | 0 |
| ## 326 | 0 | 0 | 1 | 0 |
| ## 327 | 0 | 0 | 0 | 1 |
| ## 328 | 0 | 0 | 1 | 0 |
| ## 329 | 0 | 0 | 1 | 0 |
| ## 330 | 0 | 0 | 0 | 0 |
| ## 331 | 0 | 0 | 0 | 0 |
| ## 332 | 1 | 0 | 0 | 0 |
| ## 335 | 1 | 0 | 0 | 0 |
| ## 336 | 0 | 0 | 0 | 0 |
| ## 337 | 0 | 0 | 0 | 1 |
| ## 338 | 1 | 0 | 0 | 0 |
| ## 339 | 0 | 1 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 340 | 0 | 1 | 0 | 0 |
| ## 342 | 1 | 0 | 0 | 1 |
| ## 343 | 0 | 0 | 0 | 0 |
| ## 345 | 1 | 0 | 0 | 0 |
| ## 346 | 0 | 0 | 0 | 0 |
| ## 347 | 0 | 0 | 1 | 0 |
| ## 348 | 1 | 0 | 0 | 1 |
| ## 349 | 0 | 0 | 0 | 0 |
| ## 350 | 1 | 0 | 0 | 0 |
| ## 351 | 0 | 0 | 1 | 0 |
| ## 354 | 0 | 0 | 0 | 1 |
| ## 355 | 1 | 0 | 0 | 0 |
| ## 356 | 0 | 0 | 0 | 0 |
| ## 357 | 0 | 0 | 0 | 0 |
| ## 358 | 0 | 0 | 0 | 0 |
| ## 359 | 1 | 0 | 0 | 1 |
| ## 361 | 1 | 0 | 1 | 0 |
| ## 362 | 0 | 0 | 1 | 0 |
| ## 364 | 1 | 0 | 0 | 0 |
| ## 365 | 0 | 0 | 0 | 0 |
| ## 366 | 1 | 0 | 0 | 1 |
| ## 367 | 0 | 0 | 1 | 0 |
| ## 368 | 1 | 0 | 0 | 0 |
| ## 369 | 1 | 0 | 1 | 1 |
| ## 370 | 0 | 0 | 0 | 0 |
| ## 373 | 0 | 0 | 0 | 0 |
| ## 374 | 0 | 0 | 0 | 0 |
| ## 375 | 0 | 0 | 0 | 0 |
| ## 376 | 1 | 0 | 0 | 0 |
| ## 377 | 1 | 0 | 1 | 0 |
| ## 378 | 1 | 0 | 0 | 0 |
| ## 380 | 1 | 0 | 1 | 0 |
| ## 381 | 0 | 0 | 0 | 0 |
| ## 383 | 0 | 0 | 0 | 0 |
| ## 384 | 1 | 0 | 0 | 1 |
| ## 385 | 0 | 0 | 0 | 0 |
| ## 386 | 0 | 0 | 0 | 0 |
| ## 387 | 0 | 1 | 0 | 0 |
| ## 388 | 0 | 0 | 1 | 0 |
| ## 389 | 1 | 0 | 0 | 0 |
| ## 392 | 1 | 1 | 0 | 0 |
| ## 393 | 0 | 0 | 0 | 0 |
| ## 394 | 1 | 0 | 0 | 0 |
| ## 395 | 1 | 0 | 1 | 0 |
| ## 396 | 1 | 0 | 0 | 0 |
| ## 397 | 1 | 0 | 0 | 0 |
| ## 399 | 0 | 0 | 0 | 1 |
| ## 400 | 0 | 0 | 1 | 0 |
| ## 402 | 1 | 0 | 0 | 1 |
| ## 403 | 1 | 0 | 0 | 0 |
| ## 404 | 1 | 0 | 0 | 0 |
| ## 405 | 0 | 0 | 0 | 0 |
| ## 406 | 0 | 0 | 0 | 0 |
| ## 407 | 0 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 408 | 1 | 0 | 0 | 0 |
| ## 411 | 1 | 0 | 0 | 0 |
| ## 412 | 1 | 0 | 0 | 0 |
| ## 413 | 0 | 0 | 0 | 0 |
| ## 414 | 0 | 0 | 0 | 0 |
| ## 415 | 1 | 0 | 0 | 1 |
| ## 416 | 0 | 0 | 0 | 0 |
| ## 418 | 0 | 0 | 0 | 0 |
| ## 419 | 0 | 0 | 0 | 0 |
| ## 421 | 1 | 0 | 0 | 0 |
| ## 422 | 1 | 0 | 0 | 0 |
| ## 423 | 1 | 0 | 0 | 0 |
| ## 424 | 0 | 0 | 0 | 0 |
| ## 425 | 1 | 0 | 0 | 0 |
| ## 426 | 0 | 0 | 0 | 0 |
| ## 427 | 1 | 0 | 0 | 0 |
| ## 430 | 1 | 0 | 0 | 0 |
| ## 431 | 1 | 0 | 0 | 0 |
| ## 432 | 0 | 0 | 0 | 0 |
| ## 433 | 1 | 0 | 0 | 1 |
| ## 434 | 1 | 0 | 0 | 1 |
| ## 435 | 1 | 0 | 0 | 0 |
| ## 437 | 1 | 0 | 0 | 0 |
| ## 438 | 0 | 0 | 0 | 0 |
| ## 440 | 1 | 0 | 1 | 0 |
| ## 441 | 0 | 0 | 1 | 0 |
| ## 442 | 0 | 1 | 1 | 0 |
| ## 443 | 0 | 0 | 1 | 0 |
| ## 444 | 1 | 0 | 0 | 0 |
| ## 445 | 0 | 0 | 0 | 0 |
| ## 446 | 1 | 0 | 0 | 1 |
| ## 449 | 0 | 0 | 0 | 0 |
| ## 450 | 0 | 0 | 0 | 0 |
| ## 451 | 0 | 0 | 0 | 0 |
| ## 452 | 1 | 0 | 1 | 0 |
| ## 453 | 0 | 0 | 0 | 1 |
| ## 454 | 1 | 0 | 0 | 0 |
| ## 456 | 0 | 0 | 0 | 1 |
| ## 457 | 0 | 0 | 0 | 0 |
| ## 459 | 1 | 0 | 0 | 0 |
| ## 460 | 0 | 0 | 0 | 0 |
| ## 461 | 1 | 0 | 0 | 0 |
| ## 462 | 1 | 0 | 1 | 0 |
| ## 463 | 1 | 0 | 1 | 0 |
| ## 464 | 0 | 0 | 0 | 0 |
| ## 465 | 0 | 0 | 0 | 1 |
| ## 468 | 0 | 0 | 1 | 0 |
| ## 469 | 1 | 0 | 1 | 1 |
| ## 470 | 0 | 0 | 1 | 0 |
| ## 471 | 0 | 0 | 0 | 0 |
| ## 472 | 0 | 0 | 0 | 0 |
| ## 473 | 1 | 0 | 0 | 0 |
| ## 475 | 0 | 0 | 0 | 1 |
| ## 476 | 1 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 478 | 0 | 0 | 0 | 0 |
| ## 479 | 0 | 0 | 1 | 0 |
| ## 480 | 0 | 0 | 1 | 0 |
| ## 481 | 0 | 0 | 0 | 0 |
| ## 482 | 1 | 0 | 1 | 0 |
| ## 483 | 0 | 0 | 0 | 1 |
| ## 484 | 1 | 0 | 0 | 0 |
| ## 487 | 1 | 0 | 0 | 0 |
| ## 488 | 1 | 0 | 0 | 0 |
| ## 489 | 1 | 0 | 0 | 0 |
| ## 490 | 0 | 0 | 0 | 1 |
| ## 491 | 1 | 0 | 1 | 0 |
| ## 492 | 1 | 0 | 0 | 0 |
| ## 494 | 0 | 1 | 0 | 0 |
| ## 495 | 1 | 0 | 0 | 0 |
| ## 497 | 0 | 0 | 1 | 0 |
| ## 498 | 0 | 0 | 0 | 0 |
| ## 499 | 0 | 0 | 1 | 0 |
| ## 500 | 0 | 0 | 0 | 1 |
| ## 501 | 0 | 0 | 0 | 0 |
| ## 502 | 1 | 0 | 0 | 0 |
| ## 503 | 0 | 1 | 0 | 1 |
| ## 506 | 1 | 0 | 0 | 0 |
| ## 507 | 0 | 0 | 0 | 0 |
| ## 508 | 1 | 0 | 0 | 0 |
| ## 509 | 0 | 0 | 0 | 0 |
| ## 510 | 1 | 0 | 0 | 0 |
| ## 511 | 1 | 0 | 0 | 0 |
| ## 513 | 1 | 0 | 1 | 1 |
| ## 514 | 0 | 0 | 0 | 0 |
| ## 516 | 1 | 0 | 0 | 0 |
| ## 517 | 0 | 0 | 0 | 1 |
| ## 518 | 0 | 0 | 1 | 0 |
| ## 519 | 0 | 1 | 0 | 0 |
| ## 520 | 0 | 0 | 1 | 0 |
| ## 521 | 1 | 0 | 0 | 0 |
| ## 522 | 0 | 1 | 0 | 0 |
| ## 525 | 1 | 0 | 1 | 0 |
| ## 526 | 1 | 0 | 1 | 0 |
| ## 527 | 1 | 0 | 0 | 0 |
| ## 528 | 0 | 0 | 0 | 0 |
| ## 529 | 1 | 0 | 0 | 0 |
| ## 530 | 1 | 0 | 0 | 0 |
| ## 532 | 0 | 0 | 0 | 0 |
| ## 533 | 0 | 0 | 0 | 0 |
| ## 535 | 1 | 0 | 0 | 1 |
| ## 536 | 0 | 0 | 0 | 0 |
| ## 537 | 0 | 0 | 0 | 0 |
| ## 538 | 1 | 0 | 0 | 0 |
| ## 539 | 0 | 0 | 0 | 1 |
| ## 540 | 1 | 0 | 0 | 0 |
| ## 541 | 1 | 0 | 1 | 0 |
| ## 544 | 1 | 0 | 0 | 0 |
| ## 545 | 0 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 546 | 0 | 0 | 0 | 0 |
| ## 547 | 0 | 1 | 0 | 0 |
| ## 548 | 1 | 0 | 0 | 0 |
| ## 549 | 0 | 0 | 0 | 0 |
| ## 551 | 1 | 0 | 1 | 0 |
| ## 552 | 1 | 0 | 0 | 0 |
| ## 554 | 0 | 0 | 0 | 0 |
| ## 555 | 0 | 0 | 0 | 1 |
| ## 556 | 0 | 0 | 0 | 0 |
| ## 557 | 1 | 0 | 0 | 0 |
| ## 558 | 0 | 0 | 0 | 0 |
| ## 559 | 0 | 0 | 1 | 0 |
| ## 560 | 1 | 0 | 0 | 0 |
| ## 563 | 0 | 0 | 0 | 0 |
| ## 564 | 0 | 0 | 0 | 0 |
| ## 565 | 1 | 0 | 0 | 0 |
| ## 566 | 1 | 0 | 1 | 0 |
| ## 567 | 0 | 0 | 0 | 0 |
| ## 568 | 0 | 0 | 0 | 0 |
| ## 570 | 0 | 0 | 1 | 0 |
| ## 571 | 1 | 0 | 0 | 0 |
| ## 573 | 0 | 0 | 0 | 1 |
| ## 574 | 0 | 0 | 0 | 0 |
| ## 575 | 0 | 0 | 1 | 0 |
| ## 576 | 1 | 0 | 0 | 0 |
| ## 577 | 1 | 0 | 1 | 0 |
| ## 578 | 0 | 0 | 1 | 0 |
| ## 579 | 1 | 0 | 1 | 0 |
| ## 582 | 1 | 0 | 0 | 0 |
| ## 583 | 1 | 0 | 0 | 0 |
| ## 584 | 0 | 0 | 0 | 0 |
| ## 585 | 1 | 0 | 0 | 1 |
| ## 586 | 0 | 0 | 0 | 1 |
| ## 587 | 1 | 0 | 0 | 0 |
| ## 589 | 1 | 0 | 0 | 1 |
| ## 590 | 0 | 0 | 1 | 0 |
| ## 592 | 0 | 0 | 0 | 0 |
| ## 593 | 1 | 0 | 0 | 0 |
| ## 594 | 0 | 0 | 0 | 0 |
| ## 595 | 0 | 0 | 0 | 0 |
| ## 596 | 1 | 0 | 0 | 0 |
| ## 597 | 1 | 0 | 0 | 0 |
| ## 598 | 1 | 0 | 0 | 1 |
| ## 601 | 0 | 0 | 1 | 0 |
| ## 602 | 0 | 0 | 1 | 0 |
| ## 603 | 0 | 0 | 0 | 0 |
| ## 604 | 1 | 1 | 0 | 0 |
| ## 605 | 0 | 0 | 0 | 0 |
| ## 606 | 0 | 0 | 0 | 0 |
| ## 608 | 0 | 0 | 0 | 0 |
| ## 609 | 0 | 0 | 0 | 0 |
| ## 611 | 0 | 0 | 0 | 0 |
| ## 612 | 1 | 0 | 1 | 0 |
| ## 613 | 1 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 614 | 0 | 0 | 1 | 1 |
| ## 615 | 1 | 0 | 1 | 0 |
| ## 616 | 0 | 1 | 0 | 0 |
| ## 617 | 1 | 0 | 1 | 0 |
| ## 620 | 0 | 0 | 1 | 0 |
| ## 621 | 0 | 0 | 0 | 1 |
| ## 622 | 1 | 0 | 0 | 1 |
| ## 623 | 1 | 0 | 0 | 0 |
| ## 624 | 0 | 0 | 1 | 0 |
| ## 625 | 0 | 0 | 1 | 0 |
| ## 627 | 1 | 0 | 0 | 0 |
| ## 628 | 1 | 1 | 0 | 0 |
| ## 630 | 0 | 0 | 0 | 1 |
| ## 631 | 1 | 0 | 0 | 0 |
| ## 632 | 0 | 0 | 0 | 0 |
| ## 633 | 0 | 0 | 0 | 0 |
| ## 634 | 1 | 0 | 0 | 0 |
| ## 635 | 0 | 0 | 1 | 0 |
| ## 636 | 0 | 0 | 0 | 0 |
| ## 639 | 0 | 0 | 0 | 0 |
| ## 640 | 0 | 0 | 0 | 0 |
| ## 641 | 0 | 0 | 0 | 0 |
| ## 642 | 0 | 0 | 1 | 0 |
| ## 643 | 0 | 0 | 1 | 0 |
| ## 644 | 0 | 0 | 0 | 0 |
| ## 646 | 0 | 0 | 0 | 0 |
| ## 647 | 0 | 0 | 1 | 0 |
| ## 649 | 0 | 0 | 1 | 0 |
| ## 650 | 1 | 0 | 0 | 0 |
| ## 651 | 0 | 0 | 0 | 1 |
| ## 652 | 0 | 0 | 0 | 0 |
| ## 653 | 0 | 0 | 0 | 0 |
| ## 654 | 0 | 0 | 0 | 0 |
| ## 655 | 0 | 0 | 0 | 0 |
| ## 658 | 0 | 0 | 0 | 1 |
| ## 659 | 0 | 0 | 0 | 0 |
| ## 660 | 1 | 0 | 1 | 0 |
| ## 661 | 0 | 0 | 0 | 0 |
| ## 662 | 1 | 0 | 0 | 0 |
| ## 663 | 1 | 0 | 1 | 1 |
| ## 665 | 0 | 0 | 0 | 1 |
| ## 666 | 0 | 0 | 0 | 0 |
| ## 668 | 1 | 0 | 0 | 0 |
| ## 669 | 1 | 0 | 0 | 0 |
| ## 670 | 1 | 0 | 0 | 1 |
| ## 671 | 1 | 0 | 0 | 0 |
| ## 672 | 0 | 0 | 1 | 0 |
| ## 673 | 1 | 0 | 1 | 0 |
| ## 674 | 0 | 0 | 0 | 0 |
| ## 677 | 0 | 0 | 0 | 1 |
| ## 678 | 1 | 0 | 0 | 0 |
| ## 679 | 0 | 1 | 0 | 0 |
| ## 680 | 1 | 1 | 0 | 0 |
| ## 681 | 1 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 682 | 0 | 0 | 0 | 1 |
| ## 684 | 0 | 0 | 0 | 1 |
| ## 685 | 0 | 0 | 0 | 0 |
| ## 687 | 0 | 0 | 0 | 0 |
| ## 688 | 0 | 0 | 1 | 0 |
| ## 689 | 1 | 0 | 0 | 0 |
| ## 690 | 0 | 0 | 0 | 0 |
| ## 691 | 0 | 0 | 0 | 0 |
| ## 692 | 1 | 0 | 0 | 0 |
| ## 693 | 1 | 0 | 1 | 0 |
| ## 696 | 1 | 0 | 0 | 0 |
| ## 697 | 1 | 0 | 0 | 0 |
| ## 698 | 0 | 0 | 0 | 0 |
| ## 699 | 1 | 0 | 0 | 0 |
| ## 700 | 1 | 0 | 0 | 0 |
| ## 701 | 0 | 0 | 0 | 0 |
| ## 703 | 0 | 0 | 1 | 0 |
| ## 704 | 0 | 0 | 1 | 0 |
| ## 706 | 0 | 1 | 0 | 0 |
| ## 707 | 0 | 0 | 0 | 1 |
| ## 708 | 1 | 0 | 0 | 0 |
| ## 709 | 0 | 1 | 0 | 0 |
| ## 710 | 1 | 0 | 0 | 1 |
| ## 711 | 0 | 1 | 0 | 0 |
| ## 712 | 1 | 0 | 0 | 0 |
| ## 715 | 1 | 0 | 0 | 0 |
| ## 716 | 1 | 0 | 1 | 0 |
| ## 717 | 0 | 0 | 0 | 0 |
| ## 718 | 0 | 0 | 0 | 0 |
| ## 719 | 0 | 0 | 0 | 0 |
| ## 720 | 0 | 0 | 0 | 0 |
| ## 722 | 0 | 0 | 1 | 0 |
| ## 723 | 0 | 0 | 0 | 0 |
| ## 725 | 1 | 1 | 0 | 0 |
| ## 726 | 0 | 0 | 1 | 0 |
| ## 727 | 1 | 0 | 0 | 0 |
| ## 728 | 0 | 0 | 0 | 0 |
| ## 729 | 0 | 0 | 0 | 0 |
| ## 730 | 1 | 0 | 1 | 0 |
| ## 731 | 1 | 1 | 1 | 0 |
| ## 734 | 1 | 0 | 0 | 1 |
| ## 735 | 0 | 0 | 0 | 0 |
| ## 736 | 0 | 0 | 0 | 0 |
| ## 737 | 0 | 0 | 0 | 1 |
| ## 738 | 1 | 0 | 0 | 0 |
| ## 739 | 0 | 1 | 0 | 0 |
| ## 741 | 0 | 0 | 1 | 0 |
| ## 742 | 1 | 0 | 0 | 0 |
| ## 744 | 1 | 1 | 0 | 0 |
| ## 745 | 0 | 0 | 0 | 0 |
| ## 746 | 1 | 0 | 0 | 1 |
| ## 747 | 0 | 0 | 0 | 1 |
| ## 748 | 0 | 0 | 0 | 0 |
| ## 749 | 1 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 750 | 1 | 0 | 0 | 1 |
| ## 753 | 1 | 0 | 0 | 0 |
| ## 754 | 1 | 0 | 0 | 0 |
| ## 755 | 1 | 0 | 0 | 0 |
| ## 756 | 0 | 0 | 0 | 0 |
| ## 757 | 0 | 0 | 0 | 0 |
| ## 758 | 1 | 0 | 0 | 0 |
| ## 760 | 1 | 0 | 1 | 0 |
| ## 761 | 1 | 0 | 0 | 0 |
| ## 763 | 1 | 0 | 0 | 1 |
| ## 764 | 0 | 0 | 1 | 0 |
| ## 765 | 0 | 0 | 0 | 0 |
| ## 766 | 0 | 0 | 0 | 0 |
| ## 767 | 1 | 0 | 1 | 1 |
| ## 768 | 0 | 0 | 0 | 0 |
| ## 769 | 0 | 0 | 0 | 0 |
| ## 772 | 1 | 0 | 0 | 0 |
| ## 773 | 1 | 0 | 0 | 0 |
| ## 774 | 0 | 0 | 0 | 0 |
| ## 775 | 0 | 0 | 0 | 0 |
| ## 776 | 1 | 0 | 0 | 0 |
| ## 777 | 0 | 0 | 1 | 0 |
| ## 779 | 0 | 0 | 0 | 0 |
| ## 780 | 0 | 0 | 1 | 0 |
| ## 782 | 0 | 0 | 0 | 0 |
| ## 783 | 1 | 0 | 0 | 1 |
| ## 784 | 0 | 0 | 0 | 1 |
| ## 785 | 1 | 0 | 0 | 0 |
| ## 786 | 1 | 0 | 0 | 0 |
| ## 787 | 0 | 0 | 1 | 0 |
| ## 788 | 1 | 0 | 0 | 0 |
| ## 791 | 1 | 0 | 0 | 0 |
| ## 792 | 1 | 1 | 0 | 0 |
| ## 793 | 1 | 0 | 0 | 0 |
| ## 794 | 1 | 0 | 1 | 0 |
| ## 795 | 1 | 0 | 0 | 1 |
| ## 796 | 0 | 0 | 1 | 0 |
| ## 798 | 1 | 0 | 0 | 1 |
| ## 799 | 1 | 0 | 0 | 0 |
| ## 801 | 0 | 0 | 0 | 0 |
| ## 802 | 0 | 0 | 0 | 0 |
| ## 803 | 0 | 0 | 1 | 0 |
| ## 804 | 0 | 0 | 0 | 0 |
| ## 805 | 0 | 0 | 0 | 1 |
| ## 806 | 1 | 0 | 0 | 0 |
| ## 807 | 1 | 0 | 1 | 0 |
| ## 810 | 1 | 0 | 0 | 1 |
| ## 811 | 1 | 0 | 0 | 0 |
| ## 812 | 0 | 0 | 0 | 0 |
| ## 813 | 0 | 0 | 0 | 0 |
| ## 814 | 0 | 0 | 0 | 0 |
| ## 815 | 1 | 0 | 0 | 0 |
| ## 817 | 0 | 0 | 1 | 0 |
| ## 818 | 0 | 1 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 820 | 0 | 0 | 0 | 0 |
| ## 821 | 0 | 0 | 0 | 0 |
| ## 822 | 1 | 0 | 0 | 1 |
| ## 823 | 1 | 0 | 1 | 0 |
| ## 824 | 1 | 0 | 1 | 0 |
| ## 825 | 0 | 0 | 1 | 0 |
| ## 826 | 0 | 1 | 0 | 0 |
| ## 829 | 1 | 0 | 0 | 0 |
| ## 830 | 1 | 0 | 0 | 0 |
| ## 831 | 0 | 1 | 0 | 1 |
| ## 832 | 0 | 0 | 1 | 0 |
| ## 833 | 1 | 1 | 1 | 0 |
| ## 834 | 1 | 1 | 0 | 1 |
| ## 836 | 0 | 0 | 0 | 0 |
| ## 837 | 0 | 0 | 0 | 0 |
| ## 839 | 1 | 0 | 0 | 0 |
| ## 840 | 0 | 0 | 0 | 0 |
| ## 841 | 0 | 0 | 0 | 1 |
| ## 842 | 0 | 0 | 1 | 1 |
| ## 843 | 1 | 0 | 0 | 0 |
| ## 844 | 0 | 0 | 0 | 0 |
| ## 845 | 1 | 0 | 1 | 0 |
| ## 848 | 0 | 0 | 0 | 0 |
| ## 849 | 0 | 0 | 0 | 0 |
| ## 850 | 0 | 0 | 0 | 1 |
| ## 851 | 0 | 0 | 0 | 1 |
| ## 852 | 1 | 0 | 0 | 0 |
| ## 853 | 1 | 0 | 0 | 0 |
| ## 855 | 0 | 0 | 0 | 0 |
| ## 856 | 1 | 0 | 1 | 0 |
| ## 858 | 1 | 0 | 0 | 0 |
| ## 859 | 1 | 0 | 0 | 0 |
| ## 860 | 0 | 0 | 1 | 1 |
| ## 861 | 1 | 1 | 0 | 1 |
| ## 862 | 0 | 0 | 0 | 0 |
| ## 863 | 0 | 0 | 0 | 0 |
| ## 864 | 0 | 0 | 0 | 0 |
| ## 867 | 0 | 0 | 0 | 0 |
| ## 868 | 1 | 0 | 0 | 0 |
| ## 869 | 1 | 1 | 0 | 0 |
| ## 870 | 1 | 0 | 0 | 0 |
| ## 871 | 1 | 0 | 0 | 1 |
| ## 872 | 1 | 0 | 0 | 0 |
| ## 874 | 0 | 0 | 0 | 0 |
| ## 875 | 1 | 0 | 0 | 0 |
| ## 877 | 1 | 0 | 0 | 0 |
| ## 878 | 1 | 0 | 1 | 1 |
| ## 879 | 1 | 0 | 0 | 1 |
| ## 880 | 1 | 0 | 1 | 1 |
| ## 881 | 1 | 0 | 0 | 0 |
| ## 882 | 0 | 0 | 0 | 0 |
| ## 883 | 0 | 0 | 1 | 0 |
| ## 886 | 1 | 0 | 0 | 0 |
| ## 887 | 1 | 1 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 888 | 1 | 0 | 0 | 0 |
| ## 889 | 0 | 0 | 0 | 0 |
| ## 890 | 1 | 0 | 0 | 0 |
| ## 891 | 0 | 0 | 0 | 0 |
| ## 893 | 1 | 0 | 0 | 0 |
| ## 894 | 1 | 0 | 0 | 0 |
| ## 896 | 1 | 0 | 0 | 0 |
| ## 897 | 0 | 0 | 0 | 0 |
| ## 898 | 1 | 0 | 0 | 0 |
| ## 899 | 0 | 0 | 1 | 0 |
| ## 900 | 0 | 0 | 0 | 0 |
| ## 901 | 1 | 0 | 0 | 0 |
| ## 902 | 0 | 0 | 0 | 0 |
| ## 905 | 1 | 0 | 0 | 0 |
| ## 906 | 1 | 0 | 0 | 1 |
| ## 907 | 0 | 0 | 0 | 1 |
| ## 908 | 1 | 0 | 0 | 0 |
| ## 909 | 1 | 0 | 0 | 0 |
| ## 910 | 0 | 0 | 0 | 0 |
| ## 912 | 0 | 0 | 0 | 0 |
| ## 913 | 1 | 0 | 0 | 0 |
| ## 915 | 1 | 0 | 0 | 0 |
| ## 916 | 1 | 0 | 0 | 0 |
| ## 917 | 0 | 0 | 0 | 0 |
| ## 918 | 1 | 0 | 1 | 1 |
| ## 919 | 0 | 0 | 0 | 1 |
| ## 920 | 1 | 0 | 0 | 0 |
| ## 921 | 0 | 0 | 0 | 0 |
| ## 924 | 0 | 0 | 1 | 0 |
| ## 925 | 0 | 0 | 0 | 1 |
| ## 926 | 1 | 0 | 0 | 0 |
| ## 927 | 0 | 0 | 0 | 0 |
| ## 928 | 0 | 0 | 0 | 0 |
| ## 929 | 0 | 0 | 0 | 0 |
| ## 931 | 0 | 0 | 0 | 0 |
| ## 932 | 0 | 0 | 0 | 0 |
| ## 934 | 1 | 0 | 0 | 0 |
| ## 935 | 1 | 0 | 0 | 1 |
| ## 936 | 1 | 0 | 0 | 1 |
| ## 937 | 1 | 0 | 0 | 1 |
| ## 938 | 1 | 0 | 0 | 0 |
| ## 939 | 1 | 0 | 0 | 0 |
| ## 940 | 1 | 0 | 0 | 1 |
| ## 943 | 1 | 0 | 1 | 0 |
| ## 944 | 0 | 0 | 0 | 0 |
| ## 945 | 1 | 0 | 0 | 0 |
| ## 946 | 1 | 0 | 0 | 0 |
| ## 947 | 1 | 0 | 0 | 0 |
| ## 948 | 0 | 0 | 1 | 1 |
| ## 950 | 0 | 0 | 1 | 1 |
| ## 951 | 0 | 0 | 0 | 0 |
| ## 953 | 0 | 1 | 0 | 0 |
| ## 954 | 0 | 0 | 0 | 0 |
| ## 955 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 956 | 1 | 0 | 0 | 0 |
| ## 957 | 1 | 0 | 0 | 0 |
| ## 958 | 1 | 0 | 1 | 0 |
| ## 959 | 0 | 0 | 1 | 0 |
| ## 962 | 0 | 0 | 0 | 0 |
| ## 963 | 0 | 0 | 0 | 0 |
| ## 964 | 0 | 0 | 0 | 0 |
| ## 965 | 1 | 0 | 0 | 0 |
| ## 966 | 1 | 0 | 0 | 0 |
| ## 967 | 0 | 1 | 0 | 0 |
| ## 969 | 0 | 0 | 0 | 0 |
| ## 970 | 0 | 1 | 1 | 0 |
| ## 972 | 1 | 0 | 0 | 0 |
| ## 973 | 1 | 1 | 0 | 0 |
| ## 974 | 0 | 0 | 0 | 0 |
| ## 975 | 1 | 0 | 0 | 0 |
| ## 976 | 1 | 0 | 0 | 1 |
| ## 977 | 1 | 0 | 0 | 0 |
| ## 978 | 0 | 0 | 0 | 1 |
| ## 981 | 1 | 1 | 0 | 0 |
| ## 982 | 0 | 0 | 0 | 0 |
| ## 983 | 1 | 0 | 0 | 0 |
| ## 984 | 1 | 0 | 0 | 1 |
| ## 985 | 0 | 0 | 0 | 0 |
| ## 986 | 1 | 0 | 0 | 0 |
| ## 988 | 1 | 0 | 0 | 0 |
| ## 989 | 0 | 0 | 1 | 1 |
| ## 991 | 1 | 0 | 1 | 1 |
| ## 992 | 0 | 0 | 0 | 1 |
| ## 993 | 1 | 0 | 0 | 0 |
| ## 994 | 0 | 0 | 0 | 0 |
| ## 995 | 1 | 0 | 0 | 0 |
| ## 996 | 1 | 0 | 0 | 1 |
| ## 997 | 0 | 0 | 0 | 1 |
| ## 1000 | 1 | 0 | 0 | 0 |
| ## 1001 | 1 | 0 | 0 | 0 |
| ## 1002 | 0 | 0 | 0 | 0 |
| ## 1003 | 1 | 0 | 0 | 0 |
| ## 1004 | 1 | 0 | 1 | 0 |
| ## 1005 | 0 | 0 | 1 | 0 |
| ## 1007 | 1 | 0 | 1 | 0 |
| ## 1008 | 1 | 0 | 0 | 0 |
| ## 1010 | 1 | 0 | 0 | 0 |
| ## 1011 | 0 | 1 | 0 | 0 |
| ## 1012 | 0 | 0 | 1 | 1 |
| ## 1013 | 1 | 0 | 0 | 0 |
| ## 1014 | 0 | 0 | 0 | 1 |
| ## 1015 | 1 | 0 | 1 | 0 |
| ## 1016 | 1 | 0 | 0 | 0 |
| ## 1019 | 0 | 1 | 0 | 1 |
| ## 1020 | 0 | 0 | 0 | 0 |
| ## 1021 | 0 | 0 | 0 | 0 |
| ## 1022 | 0 | 0 | 0 | 0 |
| ## 1023 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1024 | 0 | 1 | 0 | 0 |
| ## 1026 | 0 | 0 | 0 | 0 |
| ## 1027 | 1 | 0 | 1 | 0 |
| ## 1029 | 0 | 0 | 0 | 0 |
| ## 1030 | 1 | 0 | 0 | 1 |
| ## 1031 | 1 | 0 | 1 | 0 |
| ## 1032 | 1 | 0 | 0 | 0 |
| ## 1033 | 0 | 0 | 0 | 1 |
| ## 1034 | 1 | 0 | 0 | 0 |
| ## 1035 | 0 | 0 | 0 | 1 |
| ## 1038 | 1 | 0 | 0 | 0 |
| ## 1039 | 0 | 0 | 0 | 0 |
| ## 1040 | 0 | 0 | 0 | 0 |
| ## 1041 | 0 | 0 | 0 | 0 |
| ## 1042 | 1 | 0 | 0 | 0 |
| ## 1043 | 0 | 0 | 0 | 0 |
| ## 1045 | 0 | 0 | 1 | 0 |
| ## 1046 | 1 | 0 | 0 | 0 |
| ## 1048 | 1 | 0 | 0 | 0 |
| ## 1049 | 0 | 0 | 0 | 0 |
| ## 1050 | 1 | 0 | 0 | 1 |
| ## 1051 | 0 | 0 | 0 | 0 |
| ## 1052 | 0 | 0 | 1 | 0 |
| ## 1053 | 1 | 0 | 0 | 0 |
| ## 1054 | 1 | 0 | 1 | 0 |
| ## 1057 | 0 | 0 | 0 | 0 |
| ## 1058 | 0 | 0 | 0 | 0 |
| ## 1059 | 1 | 0 | 0 | 0 |
| ## 1060 | 0 | 1 | 0 | 0 |
| ## 1061 | 0 | 0 | 0 | 0 |
| ## 1062 | 0 | 0 | 0 | 1 |
| ## 1064 | 0 | 0 | 0 | 1 |
| ## 1065 | 1 | 0 | 0 | 0 |
| ## 1067 | 1 | 0 | 0 | 0 |
| ## 1068 | 0 | 0 | 0 | 0 |
| ## 1069 | 0 | 0 | 1 | 0 |
| ## 1070 | 1 | 0 | 1 | 0 |
| ## 1071 | 1 | 0 | 0 | 0 |
| ## 1072 | 0 | 0 | 0 | 0 |
| ## 1073 | 0 | 0 | 0 | 0 |
| ## 1076 | 1 | 0 | 1 | 0 |
| ## 1077 | 0 | 0 | 0 | 1 |
| ## 1078 | 1 | 0 | 0 | 0 |
| ## 1079 | 0 | 0 | 0 | 0 |
| ## 1080 | 0 | 0 | 0 | 0 |
| ## 1081 | 0 | 0 | 0 | 0 |
| ## 1083 | 1 | 1 | 0 | 0 |
| ## 1084 | 0 | 0 | 0 | 0 |
| ## 1086 | 1 | 0 | 0 | 0 |
| ## 1087 | 0 | 0 | 0 | 0 |
| ## 1088 | 1 | 0 | 0 | 0 |
| ## 1089 | 0 | 0 | 0 | 0 |
| ## 1090 | 0 | 0 | 0 | 0 |
| ## 1091 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1092 | 1 | 1 | 1 | 1 |
| ## 1095 | 0 | 0 | 0 | 1 |
| ## 1096 | 0 | 1 | 0 | 0 |
| ## 1097 | 1 | 0 | 0 | 1 |
| ## 1098 | 1 | 1 | 0 | 0 |
| ## 1099 | 1 | 0 | 0 | 0 |
| ## 1100 | 1 | 0 | 0 | 0 |
| ## 1102 | 0 | 0 | 0 | 0 |
| ## 1103 | 1 | 0 | 1 | 1 |
| ## 1105 | 1 | 0 | 0 | 0 |
| ## 1106 | 1 | 0 | 1 | 0 |
| ## 1107 | 0 | 0 | 0 | 0 |
| ## 1108 | 0 | 0 | 0 | 0 |
| ## 1109 | 0 | 0 | 0 | 0 |
| ## 1110 | 0 | 0 | 1 | 0 |
| ## 1111 | 0 | 0 | 1 | 0 |
| ## 1114 | 0 | 0 | 1 | 0 |
| ## 1115 | 1 | 0 | 0 | 0 |
| ## 1116 | 1 | 0 | 0 | 0 |
| ## 1117 | 0 | 0 | 0 | 0 |
| ## 1118 | 0 | 0 | 1 | 0 |
| ## 1119 | 0 | 0 | 1 | 0 |
| ## 1121 | 0 | 0 | 0 | 0 |
| ## 1122 | 0 | 0 | 0 | 0 |
| ## 1124 | 0 | 0 | 0 | 1 |
| ## 1125 | 0 | 0 | 0 | 0 |
| ## 1126 | 1 | 0 | 0 | 0 |
| ## 1127 | 1 | 0 | 0 | 0 |
| ## 1128 | 0 | 0 | 0 | 0 |
| ## 1129 | 0 | 0 | 1 | 0 |
| ## 1130 | 0 | 0 | 0 | 0 |
| ## 1133 | 1 | 0 | 1 | 0 |
| ## 1134 | 1 | 0 | 1 | 0 |
| ## 1135 | 1 | 0 | 0 | 0 |
| ## 1136 | 0 | 0 | 0 | 0 |
| ## 1137 | 0 | 1 | 0 | 0 |
| ## 1138 | 0 | 0 | 0 | 0 |
| ## 1140 | 0 | 0 | 0 | 1 |
| ## 1141 | 0 | 0 | 0 | 0 |
| ## 1143 | 0 | 0 | 0 | 0 |
| ## 1144 | 1 | 0 | 0 | 0 |
| ## 1145 | 0 | 0 | 0 | 0 |
| ## 1146 | 1 | 0 | 0 | 0 |
| ## 1147 | 1 | 0 | 0 | 0 |
| ## 1148 | 1 | 0 | 0 | 0 |
| ## 1149 | 1 | 0 | 0 | 0 |
| ## 1152 | 0 | 0 | 0 | 0 |
| ## 1153 | 0 | 0 | 0 | 0 |
| ## 1154 | 0 | 0 | 1 | 0 |
| ## 1155 | 1 | 0 | 0 | 0 |
| ## 1156 | 0 | 0 | 0 | 1 |
| ## 1157 | 1 | 0 | 1 | 0 |
| ## 1159 | 0 | 0 | 0 | 0 |
| ## 1160 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1162 | 0 | 0 | 1 | 0 |
| ## 1163 | 1 | 0 | 0 | 0 |
| ## 1164 | 0 | 0 | 0 | 0 |
| ## 1165 | 1 | 1 | 0 | 0 |
| ## 1166 | 1 | 0 | 1 | 0 |
| ## 1167 | 1 | 0 | 0 | 0 |
| ## 1168 | 1 | 0 | 0 | 0 |
| ## 1171 | 0 | 0 | 1 | 0 |
| ## 1172 | 1 | 0 | 0 | 0 |
| ## 1173 | 0 | 1 | 0 | 1 |
| ## 1174 | 0 | 0 | 0 | 0 |
| ## 1175 | 0 | 0 | 0 | 1 |
| ## 1176 | 0 | 0 | 1 | 0 |
| ## 1178 | 0 | 0 | 0 | 0 |
| ## 1179 | 0 | 0 | 0 | 0 |
| ## 1181 | 1 | 0 | 0 | 0 |
| ## 1182 | 1 | 0 | 0 | 0 |
| ## 1183 | 0 | 0 | 0 | 0 |
| ## 1184 | 0 | 0 | 0 | 0 |
| ## 1185 | 0 | 0 | 1 | 0 |
| ## 1186 | 1 | 0 | 0 | 0 |
| ## 1187 | 0 | 0 | 0 | 1 |
| ## 1190 | 1 | 0 | 0 | 0 |
| ## 1191 | 0 | 0 | 0 | 0 |
| ## 1192 | 1 | 0 | 0 | 0 |
| ## 1193 | 1 | 0 | 0 | 0 |
| ## 1194 | 1 | 0 | 0 | 0 |
| ## 1195 | 0 | 0 | 0 | 0 |
| ## 1197 | 1 | 0 | 0 | 0 |
| ## 1198 | 1 | 0 | 0 | 1 |
| ## 1200 | 1 | 0 | 0 | 0 |
| ## 1201 | 1 | 0 | 0 | 1 |
| ## 1202 | 1 | 0 | 0 | 0 |
| ## 1203 | 0 | 1 | 0 | 0 |
| ## 1204 | 0 | 1 | 0 | 0 |
| ## 1205 | 1 | 0 | 0 | 1 |
| ## 1206 | 0 | 0 | 0 | 0 |
| ## 1209 | 0 | 0 | 0 | 0 |
| ## 1210 | 1 | 0 | 0 | 0 |
| ## 1211 | 1 | 0 | 0 | 0 |
| ## 1212 | 0 | 0 | 0 | 0 |
| ## 1213 | 1 | 0 | 0 | 0 |
| ## 1214 | 0 | 0 | 0 | 1 |
| ## 1216 | 0 | 0 | 1 | 0 |
| ## 1217 | 0 | 0 | 1 | 0 |
| ## 1219 | 0 | 0 | 0 | 0 |
| ## 1220 | 0 | 0 | 0 | 1 |
| ## 1221 | 0 | 0 | 0 | 0 |
| ## 1222 | 1 | 0 | 1 | 0 |
| ## 1223 | 0 | 0 | 0 | 0 |
| ## 1224 | 0 | 0 | 0 | 0 |
| ## 1225 | 0 | 0 | 0 | 0 |
| ## 1228 | 1 | 0 | 0 | 0 |
| ## 1229 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1230 | 1 | 0 | 0 | 0 |
| ## 1231 | 1 | 1 | 0 | 0 |
| ## 1232 | 1 | 1 | 0 | 0 |
| ## 1233 | 1 | 0 | 0 | 0 |
| ## 1235 | 1 | 0 | 0 | 0 |
| ## 1236 | 1 | 0 | 0 | 0 |
| ## 1238 | 1 | 0 | 0 | 0 |
| ## 1239 | 0 | 0 | 0 | 1 |
| ## 1240 | 1 | 0 | 0 | 0 |
| ## 1241 | 1 | 0 | 1 | 1 |
| ## 1242 | 0 | 0 | 0 | 0 |
| ## 1243 | 0 | 0 | 0 | 0 |
| ## 1244 | 0 | 0 | 0 | 0 |
| ## 1247 | 1 | 0 | 0 | 0 |
| ## 1248 | 0 | 0 | 1 | 1 |
| ## 1249 | 1 | 0 | 0 | 0 |
| ## 1250 | 1 | 0 | 1 | 0 |
| ## 1251 | 0 | 0 | 0 | 0 |
| ## 1252 | 1 | 0 | 0 | 0 |
| ## 1254 | 1 | 0 | 0 | 0 |
| ## 1255 | 0 | 0 | 0 | 0 |
| ## 1257 | 0 | 0 | 1 | 0 |
| ## 1258 | 0 | 0 | 0 | 0 |
| ## 1259 | 0 | 0 | 0 | 0 |
| ## 1260 | 0 | 0 | 0 | 0 |
| ## 1261 | 0 | 0 | 0 | 0 |
| ## 1262 | 1 | 0 | 0 | 0 |
| ## 1263 | 0 | 0 | 1 | 0 |
| ## 1266 | 0 | 0 | 0 | 0 |
| ## 1267 | 1 | 0 | 0 | 0 |
| ## 1268 | 0 | 0 | 0 | 0 |
| ## 1269 | 0 | 0 | 0 | 0 |
| ## 1270 | 0 | 0 | 0 | 0 |
| ## 1271 | 1 | 0 | 0 | 0 |
| ## 1273 | 1 | 0 | 0 | 1 |
| ## 1274 | 1 | 0 | 0 | 0 |
| ## 1276 | 1 | 0 | 0 | 0 |
| ## 1277 | 0 | 0 | 1 | 0 |
| ## 1278 | 1 | 0 | 1 | 0 |
| ## 1279 | 1 | 0 | 0 | 0 |
| ## 1280 | 1 | 1 | 0 | 0 |
| ## 1281 | 1 | 0 | 0 | 1 |
| ## 1282 | 1 | 0 | 0 | 0 |
| ## 1285 | 0 | 0 | 0 | 1 |
| ## 1286 | 1 | 0 | 0 | 0 |
| ## 1287 | 0 | 0 | 1 | 0 |
| ## 1288 | 0 | 0 | 0 | 0 |
| ## 1289 | 1 | 0 | 0 | 0 |
| ## 1290 | 0 | 0 | 1 | 0 |
| ## 1292 | 0 | 0 | 1 | 0 |
| ## 1293 | 0 | 0 | 1 | 0 |
| ## 1295 | 1 | 0 | 0 | 0 |
| ## 1296 | 1 | 0 | 0 | 0 |
| ## 1297 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1298 | 1 | 0 | 0 | 0 |
| ## 1299 | 0 | 0 | 0 | 0 |
| ## 1300 | 1 | 0 | 0 | 1 |
| ## 1301 | 0 | 0 | 1 | 0 |
| ## 1304 | 0 | 0 | 0 | 0 |
| ## 1305 | 1 | 0 | 0 | 0 |
| ## 1306 | 0 | 1 | 0 | 0 |
| ## 1307 | 1 | 0 | 0 | 0 |
| ## 1308 | 1 | 0 | 0 | 0 |
| ## 1309 | 1 | 1 | 0 | 0 |
| ## 1311 | 0 | 0 | 0 | 0 |
| ## 1312 | 1 | 0 | 0 | 0 |
| ## 1314 | 1 | 0 | 0 | 1 |
| ## 1315 | 1 | 0 | 0 | 0 |
| ## 1316 | 0 | 0 | 1 | 0 |
| ## 1317 | 1 | 0 | 0 | 0 |
| ## 1318 | 1 | 0 | 0 | 1 |
| ## 1319 | 0 | 0 | 0 | 0 |
| ## 1320 | 1 | 0 | 0 | 0 |
| ## 1323 | 0 | 0 | 0 | 1 |
| ## 1324 | 1 | 0 | 0 | 0 |
| ## 1325 | 0 | 1 | 0 | 0 |
| ## 1326 | 1 | 0 | 1 | 0 |
| ## 1327 | 0 | 0 | 0 | 0 |
| ## 1328 | 0 | 1 | 0 | 0 |
| ## 1330 | 1 | 0 | 1 | 0 |
| ## 1331 | 1 | 0 | 0 | 0 |
| ## 1333 | 1 | 0 | 0 | 0 |
| ## 1334 | 1 | 0 | 0 | 0 |
| ## 1335 | 0 | 0 | 1 | 0 |
| ## 1336 | 0 | 0 | 0 | 0 |
| ## 1337 | 0 | 0 | 0 | 0 |
| ## 1338 | 0 | 0 | 0 | 0 |
| ## 1339 | 1 | 1 | 0 | 1 |
| ## 1342 | 1 | 0 | 0 | 0 |
| ## 1343 | 0 | 0 | 0 | 0 |
| ## 1344 | 0 | 1 | 1 | 0 |
| ## 1345 | 0 | 1 | 0 | 0 |
| ## 1346 | 0 | 0 | 0 | 0 |
| ## 1347 | 0 | 0 | 1 | 0 |
| ## 1349 | 0 | 0 | 0 | 0 |
| ## 1350 | 1 | 0 | 0 | 0 |
| ## 1352 | 0 | 0 | 0 | 1 |
| ## 1353 | 0 | 0 | 0 | 0 |
| ## 1354 | 1 | 0 | 0 | 0 |
| ## 1355 | 1 | 0 | 1 | 0 |
| ## 1356 | 0 | 0 | 1 | 0 |
| ## 1357 | 1 | 0 | 0 | 0 |
| ## 1358 | 0 | 0 | 0 | 0 |
| ## 1361 | 1 | 0 | 0 | 1 |
| ## 1362 | 1 | 1 | 0 | 0 |
| ## 1363 | 0 | 0 | 0 | 1 |
| ## 1364 | 0 | 0 | 0 | 0 |
| ## 1365 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1366 | 0 | 0 | 0 | 0 |
| ## 1368 | 1 | 1 | 1 | 0 |
| ## 1369 | 1 | 0 | 0 | 1 |
| ## 1371 | 0 | 0 | 0 | 0 |
| ## 1372 | 1 | 0 | 0 | 0 |
| ## 1373 | 0 | 0 | 1 | 0 |
| ## 1374 | 1 | 0 | 0 | 0 |
| ## 1375 | 1 | 0 | 0 | 0 |
| ## 1376 | 1 | 0 | 1 | 0 |
| ## 1377 | 1 | 0 | 1 | 1 |
| ## 1380 | 0 | 0 | 0 | 1 |
| ## 1381 | 0 | 0 | 0 | 0 |
| ## 1382 | 0 | 0 | 0 | 0 |
| ## 1383 | 0 | 0 | 1 | 0 |
| ## 1384 | 1 | 0 | 1 | 0 |
| ## 1385 | 0 | 0 | 0 | 0 |
| ## 1387 | 0 | 0 | 1 | 0 |
| ## 1388 | 1 | 1 | 0 | 0 |
| ## 1390 | 1 | 0 | 0 | 0 |
| ## 1391 | 0 | 0 | 0 | 0 |
| ## 1392 | 1 | 0 | 0 | 1 |
| ## 1393 | 0 | 0 | 1 | 0 |
| ## 1394 | 1 | 1 | 0 | 0 |
| ## 1395 | 1 | 0 | 0 | 1 |
| ## 1396 | 1 | 0 | 0 | 0 |
| ## 1399 | 1 | 0 | 0 | 0 |
| ## 1400 | 1 | 0 | 1 | 0 |
| ## 1401 | 1 | 0 | 1 | 0 |
| ## 1402 | 1 | 1 | 0 | 0 |
| ## 1403 | 0 | 1 | 0 | 0 |
| ## 1404 | 0 | 0 | 1 | 0 |
| ## 1406 | 0 | 0 | 1 | 0 |
| ## 1407 | 1 | 0 | 0 | 0 |
| ## 1409 | 0 | 0 | 0 | 1 |
| ## 1410 | 1 | 0 | 0 | 1 |
| ## 1411 | 1 | 0 | 0 | 0 |
| ## 1412 | 1 | 0 | 0 | 0 |
| ## 1413 | 0 | 0 | 0 | 0 |
| ## 1414 | 0 | 0 | 0 | 0 |
| ## 1415 | 0 | 0 | 0 | 0 |
| ## 1418 | 0 | 0 | 1 | 0 |
| ## 1419 | 0 | 0 | 0 | 0 |
| ## 1420 | 0 | 0 | 1 | 1 |
| ## 1421 | 1 | 0 | 0 | 1 |
| ## 1422 | 0 | 0 | 1 | 0 |
| ## 1423 | 1 | 0 | 0 | 0 |
| ## 1425 | 1 | 0 | 0 | 0 |
| ## 1426 | 0 | 0 | 0 | 0 |
| ## 1428 | 0 | 0 | 0 | 1 |
| ## 1429 | 0 | 0 | 0 | 1 |
| ## 1430 | 0 | 0 | 0 | 0 |
| ## 1431 | 0 | 0 | 0 | 0 |
| ## 1432 | 0 | 1 | 1 | 0 |
| ## 1433 | 0 | 1 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1434 | 1 | 0 | 0 | 0 |
| ## 1437 | 1 | 0 | 0 | 1 |
| ## 1438 | 1 | 1 | 1 | 0 |
| ## 1439 | 0 | 0 | 0 | 0 |
| ## 1440 | 0 | 0 | 0 | 0 |
| ## 1441 | 1 | 0 | 1 | 0 |
| ## 1442 | 1 | 0 | 0 | 1 |
| ## 1444 | 1 | 0 | 0 | 0 |
| ## 1445 | 1 | 0 | 0 | 0 |
| ## 1447 | 0 | 0 | 1 | 0 |
| ## 1448 | 0 | 0 | 1 | 0 |
| ## 1449 | 1 | 0 | 0 | 0 |
| ## 1450 | 1 | 0 | 1 | 0 |
| ## 1451 | 1 | 0 | 0 | 0 |
| ## 1452 | 1 | 0 | 0 | 0 |
| ## 1453 | 1 | 0 | 0 | 0 |
| ## 1456 | 1 | 0 | 0 | 0 |
| ## 1457 | 0 | 0 | 1 | 0 |
| ## 1458 | 1 | 1 | 0 | 0 |
| ## 1459 | 0 | 0 | 0 | 0 |
| ## 1460 | 0 | 0 | 0 | 0 |
| ## 1461 | 0 | 0 | 0 | 0 |
| ## 1463 | 0 | 0 | 1 | 0 |
| ## 1464 | 1 | 0 | 0 | 0 |
| ## 1466 | 1 | 0 | 0 | 0 |
| ## 1467 | 1 | 0 | 0 | 0 |
| ## 1468 | 0 | 0 | 0 | 0 |
| ## 1469 | 1 | 0 | 0 | 0 |
| ## 1470 | 0 | 0 | 0 | 0 |
| ## 1471 | 1 | 0 | 0 | 0 |
| ## 1472 | 0 | 0 | 0 | 1 |
| ## 1475 | 1 | 1 | 0 | 0 |
| ## 1476 | 1 | 0 | 0 | 1 |
| ## 1477 | 0 | 0 | 0 | 0 |
| ## 1478 | 0 | 0 | 0 | 0 |
| ## 1479 | 0 | 0 | 0 | 1 |
| ## 1480 | 0 | 1 | 0 | 0 |
| ## 1482 | 0 | 0 | 0 | 0 |
| ## 1483 | 1 | 0 | 0 | 0 |
| ## 1485 | 1 | 0 | 0 | 0 |
| ## 1486 | 0 | 0 | 0 | 0 |
| ## 1487 | 1 | 1 | 0 | 0 |
| ## 1488 | 0 | 0 | 0 | 1 |
| ## 1489 | 1 | 0 | 0 | 0 |
| ## 1490 | 0 | 0 | 1 | 0 |
| ## 1491 | 0 | 0 | 0 | 0 |
| ## 1494 | 1 | 0 | 0 | 0 |
| ## 1495 | 0 | 0 | 0 | 0 |
| ## 1496 | 1 | 0 | 0 | 0 |
| ## 1497 | 0 | 0 | 0 | 0 |
| ## 1498 | 1 | 0 | 0 | 0 |
| ## 1499 | 1 | 0 | 0 | 1 |
| ## 1501 | 1 | 0 | 1 | 1 |
| ## 1502 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1504 | 0 | 0 | 0 | 0 |
| ## 1505 | 1 | 0 | 0 | 1 |
| ## 1506 | 1 | 0 | 0 | 0 |
| ## 1507 | 0 | 0 | 0 | 0 |
| ## 1508 | 1 | 0 | 0 | 0 |
| ## 1509 | 1 | 0 | 0 | 1 |
| ## 1510 | 0 | 0 | 0 | 0 |
| ## 1513 | 0 | 0 | 0 | 0 |
| ## 1514 | 0 | 0 | 0 | 0 |
| ## 1515 | 0 | 0 | 1 | 0 |
| ## 1516 | 1 | 0 | 0 | 0 |
| ## 1517 | 0 | 0 | 1 | 0 |
| ## 1518 | 0 | 1 | 0 | 0 |
| ## 1520 | 0 | 0 | 0 | 0 |
| ## 1521 | 1 | 0 | 0 | 0 |
| ## 1523 | 0 | 0 | 0 | 0 |
| ## 1524 | 0 | 0 | 0 | 0 |
| ## 1525 | 0 | 0 | 0 | 1 |
| ## 1526 | 1 | 0 | 1 | 0 |
| ## 1527 | 0 | 0 | 1 | 0 |
| ## 1528 | 1 | 0 | 0 | 1 |
| ## 1529 | 1 | 0 | 0 | 0 |
| ## 1532 | 0 | 0 | 0 | 0 |
| ## 1533 | 1 | 0 | 0 | 0 |
| ## 1534 | 1 | 0 | 0 | 1 |
| ## 1535 | 1 | 0 | 0 | 0 |
| ## 1536 | 0 | 0 | 0 | 1 |
| ## 1537 | 0 | 1 | 0 | 0 |
| ## 1539 | 0 | 1 | 0 | 0 |
| ## 1540 | 0 | 0 | 1 | 0 |
| ## 1542 | 0 | 0 | 0 | 0 |
| ## 1543 | 1 | 0 | 0 | 0 |
| ## 1544 | 1 | 0 | 0 | 0 |
| ## 1545 | 0 | 0 | 0 | 1 |
| ## 1546 | 0 | 0 | 0 | 1 |
| ## 1547 | 0 | 0 | 0 | 0 |
| ## 1548 | 1 | 0 | 0 | 0 |
| ## 1551 | 0 | 0 | 0 | 0 |
| ## 1552 | 1 | 1 | 0 | 0 |
| ## 1553 | 0 | 0 | 0 | 0 |
| ## 1554 | 0 | 0 | 1 | 1 |
| ## 1555 | 1 | 0 | 0 | 0 |
| ## 1556 | 0 | 0 | 0 | 0 |
| ## 1558 | 1 | 0 | 0 | 0 |
| ## 1559 | 0 | 0 | 1 | 1 |
| ## 1561 | 0 | 0 | 0 | 0 |
| ## 1562 | 1 | 0 | 0 | 0 |
| ## 1563 | 0 | 0 | 0 | 0 |
| ## 1564 | 1 | 0 | 0 | 0 |
| ## 1565 | 0 | 0 | 0 | 0 |
| ## 1566 | 0 | 0 | 1 | 0 |
| ## 1567 | 0 | 1 | 0 | 0 |
| ## 1570 | 0 | 0 | 0 | 1 |
| ## 1571 | 1 | 0 | 0 | 1 |

| | | | | |
|---------|---|---|---|---|
| ## 1572 | 1 | 0 | 0 | 0 |
| ## 1573 | 0 | 0 | 0 | 0 |
| ## 1574 | 1 | 0 | 0 | 0 |
| ## 1575 | 0 | 0 | 1 | 0 |
| ## 1577 | 0 | 1 | 0 | 0 |
| ## 1578 | 0 | 0 | 0 | 0 |
| ## 1580 | 0 | 0 | 0 | 0 |
| ## 1581 | 0 | 0 | 0 | 0 |
| ## 1582 | 0 | 0 | 0 | 0 |
| ## 1583 | 1 | 0 | 0 | 0 |
| ## 1584 | 1 | 0 | 0 | 0 |
| ## 1585 | 0 | 0 | 0 | 0 |
| ## 1586 | 1 | 0 | 0 | 0 |
| ## 1589 | 0 | 0 | 1 | 0 |
| ## 1590 | 1 | 1 | 0 | 0 |
| ## 1591 | 0 | 1 | 0 | 0 |
| ## 1592 | 0 | 0 | 0 | 0 |
| ## 1593 | 0 | 0 | 0 | 0 |
| ## 1594 | 0 | 0 | 1 | 0 |
| ## 1596 | 1 | 0 | 0 | 0 |
| ## 1597 | 0 | 0 | 0 | 0 |
| ## 1599 | 1 | 0 | 0 | 0 |
| ## 1600 | 0 | 0 | 0 | 0 |
| ## 1601 | 1 | 0 | 0 | 1 |
| ## 1602 | 0 | 0 | 0 | 0 |
| ## 1603 | 0 | 0 | 1 | 0 |
| ## 1604 | 0 | 0 | 0 | 0 |
| ## 1605 | 0 | 1 | 0 | 0 |
| ## 1608 | 0 | 0 | 0 | 0 |
| ## 1609 | 1 | 0 | 0 | 0 |
| ## 1610 | 0 | 0 | 1 | 0 |
| ## 1611 | 0 | 0 | 1 | 1 |
| ## 1612 | 1 | 0 | 0 | 1 |
| ## 1613 | 0 | 0 | 1 | 0 |
| ## 1615 | 0 | 0 | 1 | 0 |
| ## 1616 | 1 | 0 | 0 | 0 |
| ## 1618 | 1 | 0 | 0 | 0 |
| ## 1619 | 1 | 0 | 0 | 1 |
| ## 1620 | 1 | 0 | 0 | 1 |
| ## 1621 | 1 | 0 | 0 | 1 |
| ## 1622 | 1 | 0 | 1 | 0 |
| ## 1623 | 0 | 1 | 1 | 0 |
| ## 1624 | 0 | 0 | 0 | 1 |
| ## 1627 | 1 | 0 | 1 | 0 |
| ## 1628 | 1 | 0 | 0 | 0 |
| ## 1629 | 1 | 0 | 1 | 0 |
| ## 1630 | 1 | 0 | 0 | 1 |
| ## 1631 | 0 | 0 | 0 | 0 |
| ## 1632 | 0 | 0 | 1 | 0 |
| ## 1634 | 1 | 0 | 0 | 0 |
| ## 1635 | 0 | 0 | 1 | 1 |
| ## 1637 | 1 | 0 | 0 | 0 |
| ## 1638 | 0 | 0 | 0 | 0 |
| ## 1639 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1640 | 0 | 0 | 0 | 0 |
| ## 1641 | 0 | 0 | 0 | 1 |
| ## 1642 | 1 | 0 | 0 | 0 |
| ## 1643 | 0 | 0 | 0 | 0 |
| ## 1646 | 0 | 0 | 0 | 0 |
| ## 1647 | 1 | 0 | 0 | 1 |
| ## 1648 | 1 | 0 | 0 | 0 |
| ## 1649 | 1 | 0 | 0 | 0 |
| ## 1650 | 1 | 0 | 0 | 0 |
| ## 1651 | 0 | 0 | 0 | 0 |
| ## 1653 | 1 | 0 | 0 | 1 |
| ## 1654 | 0 | 0 | 0 | 0 |
| ## 1656 | 0 | 0 | 0 | 1 |
| ## 1657 | 1 | 0 | 0 | 0 |
| ## 1658 | 1 | 0 | 0 | 0 |
| ## 1659 | 1 | 0 | 1 | 1 |
| ## 1660 | 1 | 0 | 1 | 0 |
| ## 1661 | 0 | 0 | 0 | 0 |
| ## 1662 | 1 | 0 | 1 | 0 |
| ## 1665 | 1 | 1 | 0 | 0 |
| ## 1666 | 1 | 0 | 0 | 0 |
| ## 1667 | 0 | 0 | 0 | 0 |
| ## 1668 | 0 | 0 | 1 | 0 |
| ## 1669 | 1 | 0 | 0 | 0 |
| ## 1670 | 0 | 0 | 1 | 0 |
| ## 1672 | 0 | 0 | 0 | 0 |
| ## 1673 | 0 | 0 | 0 | 0 |
| ## 1675 | 0 | 0 | 0 | 0 |
| ## 1676 | 1 | 0 | 0 | 0 |
| ## 1677 | 1 | 0 | 0 | 1 |
| ## 1678 | 0 | 0 | 0 | 1 |
| ## 1679 | 1 | 0 | 0 | 0 |
| ## 1680 | 0 | 0 | 0 | 0 |
| ## 1681 | 1 | 0 | 0 | 0 |
| ## 1684 | 1 | 1 | 0 | 0 |
| ## 1685 | 1 | 0 | 0 | 0 |
| ## 1686 | 0 | 0 | 0 | 1 |
| ## 1687 | 1 | 0 | 0 | 0 |
| ## 1688 | 0 | 1 | 1 | 0 |
| ## 1689 | 1 | 0 | 0 | 1 |
| ## 1691 | 0 | 0 | 0 | 0 |
| ## 1692 | 1 | 0 | 0 | 0 |
| ## 1694 | 1 | 0 | 0 | 1 |
| ## 1695 | 1 | 0 | 0 | 0 |
| ## 1696 | 0 | 0 | 0 | 1 |
| ## 1697 | 0 | 0 | 0 | 0 |
| ## 1698 | 0 | 0 | 0 | 0 |
| ## 1699 | 0 | 1 | 0 | 0 |
| ## 1700 | 1 | 0 | 0 | 0 |
| ## 1703 | 0 | 0 | 0 | 1 |
| ## 1704 | 1 | 0 | 0 | 1 |
| ## 1705 | 0 | 0 | 0 | 0 |
| ## 1706 | 0 | 1 | 1 | 0 |
| ## 1707 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1708 | 1 | 0 | 0 | 1 |
| ## 1710 | 1 | 0 | 0 | 0 |
| ## 1711 | 1 | 0 | 0 | 0 |
| ## 1713 | 1 | 0 | 0 | 0 |
| ## 1714 | 0 | 0 | 0 | 0 |
| ## 1715 | 1 | 1 | 0 | 1 |
| ## 1716 | 0 | 0 | 0 | 1 |
| ## 1717 | 0 | 0 | 0 | 0 |
| ## 1718 | 1 | 0 | 0 | 1 |
| ## 1719 | 0 | 0 | 0 | 0 |
| ## 1722 | 1 | 0 | 1 | 0 |
| ## 1723 | 0 | 0 | 0 | 0 |
| ## 1724 | 1 | 0 | 0 | 0 |
| ## 1725 | 0 | 0 | 0 | 0 |
| ## 1726 | 1 | 0 | 0 | 0 |
| ## 1727 | 0 | 0 | 0 | 0 |
| ## 1729 | 1 | 1 | 0 | 0 |
| ## 1730 | 1 | 0 | 0 | 0 |
| ## 1732 | 0 | 0 | 1 | 0 |
| ## 1733 | 0 | 0 | 1 | 0 |
| ## 1734 | 1 | 0 | 1 | 0 |
| ## 1735 | 0 | 0 | 0 | 0 |
| ## 1736 | 1 | 0 | 0 | 0 |
| ## 1737 | 0 | 1 | 0 | 0 |
| ## 1738 | 1 | 0 | 0 | 0 |
| ## 1741 | 1 | 0 | 1 | 0 |
| ## 1742 | 1 | 0 | 0 | 0 |
| ## 1743 | 0 | 0 | 0 | 0 |
| ## 1744 | 0 | 0 | 0 | 0 |
| ## 1745 | 1 | 0 | 1 | 0 |
| ## 1746 | 1 | 0 | 0 | 0 |
| ## 1748 | 0 | 0 | 0 | 1 |
| ## 1749 | 1 | 0 | 0 | 0 |
| ## 1751 | 1 | 0 | 0 | 0 |
| ## 1752 | 1 | 0 | 0 | 1 |
| ## 1753 | 1 | 0 | 0 | 1 |
| ## 1754 | 0 | 0 | 0 | 0 |
| ## 1755 | 0 | 0 | 0 | 0 |
| ## 1756 | 0 | 0 | 0 | 1 |
| ## 1757 | 1 | 1 | 0 | 0 |
| ## 1760 | 1 | 0 | 0 | 0 |
| ## 1761 | 1 | 0 | 0 | 0 |
| ## 1762 | 1 | 0 | 1 | 1 |
| ## 1763 | 1 | 0 | 0 | 0 |
| ## 1764 | 0 | 0 | 0 | 0 |
| ## 1765 | 0 | 0 | 0 | 1 |
| ## 1767 | 1 | 0 | 1 | 0 |
| ## 1768 | 1 | 1 | 1 | 0 |
| ## 1770 | 0 | 0 | 0 | 0 |
| ## 1771 | 0 | 0 | 0 | 0 |
| ## 1772 | 0 | 0 | 0 | 0 |
| ## 1773 | 1 | 0 | 1 | 0 |
| ## 1774 | 0 | 0 | 0 | 0 |
| ## 1775 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1776 | 0 | 0 | 0 | 0 |
| ## 1779 | 0 | 0 | 0 | 0 |
| ## 1780 | 0 | 0 | 0 | 0 |
| ## 1781 | 1 | 0 | 1 | 0 |
| ## 1782 | 0 | 0 | 1 | 1 |
| ## 1783 | 1 | 0 | 0 | 0 |
| ## 1784 | 1 | 0 | 0 | 0 |
| ## 1786 | 1 | 1 | 0 | 0 |
| ## 1787 | 1 | 0 | 1 | 0 |
| ## 1789 | 0 | 1 | 0 | 0 |
| ## 1790 | 1 | 0 | 1 | 0 |
| ## 1791 | 0 | 1 | 1 | 0 |
| ## 1792 | 0 | 0 | 0 | 0 |
| ## 1793 | 1 | 0 | 1 | 0 |
| ## 1794 | 0 | 0 | 0 | 0 |
| ## 1795 | 1 | 0 | 0 | 1 |
| ## 1798 | 0 | 0 | 0 | 0 |
| ## 1799 | 0 | 0 | 0 | 1 |
| ## 1800 | 1 | 0 | 1 | 0 |
| ## 1801 | 0 | 0 | 1 | 0 |
| ## 1802 | 0 | 0 | 0 | 0 |
| ## 1803 | 1 | 0 | 0 | 0 |
| ## 1805 | 1 | 0 | 0 | 1 |
| ## 1806 | 0 | 0 | 0 | 0 |
| ## 1808 | 1 | 0 | 0 | 0 |
| ## 1809 | 1 | 0 | 0 | 1 |
| ## 1810 | 0 | 0 | 0 | 0 |
| ## 1811 | 1 | 0 | 0 | 0 |
| ## 1812 | 1 | 0 | 0 | 0 |
| ## 1813 | 1 | 0 | 1 | 0 |
| ## 1814 | 1 | 0 | 0 | 0 |
| ## 1817 | 1 | 0 | 0 | 1 |
| ## 1818 | 1 | 0 | 0 | 0 |
| ## 1819 | 0 | 0 | 1 | 0 |
| ## 1820 | 1 | 0 | 0 | 0 |
| ## 1821 | 1 | 0 | 0 | 0 |
| ## 1822 | 1 | 0 | 0 | 0 |
| ## 1824 | 1 | 0 | 0 | 0 |
| ## 1825 | 1 | 0 | 0 | 0 |
| ## 1828 | 1 | 1 | 0 | 1 |
| ## 1829 | 0 | 0 | 0 | 1 |
| ## 1830 | 1 | 1 | 1 | 1 |
| ## 1831 | 1 | 0 | 0 | 1 |
| ## 1832 | 0 | 0 | 0 | 0 |
| ## 1833 | 1 | 0 | 0 | 1 |
| ## 1834 | 1 | 0 | 0 | 1 |
| ## 1837 | 0 | 0 | 0 | 0 |
| ## 1838 | 1 | 0 | 0 | 0 |
| ## 1839 | 0 | 0 | 0 | 0 |
| ## 1840 | 0 | 0 | 0 | 0 |
| ## 1841 | 0 | 0 | 0 | 1 |
| ## 1842 | 1 | 0 | 0 | 1 |
| ## 1844 | 1 | 0 | 0 | 1 |
| ## 1845 | 0 | 0 | 1 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1847 | 1 | 0 | 0 | 0 |
| ## 1848 | 0 | 0 | 1 | 0 |
| ## 1849 | 1 | 0 | 1 | 0 |
| ## 1850 | 0 | 0 | 0 | 0 |
| ## 1851 | 0 | 0 | 1 | 0 |
| ## 1852 | 1 | 0 | 0 | 0 |
| ## 1853 | 1 | 0 | 0 | 0 |
| ## 1856 | 0 | 0 | 0 | 0 |
| ## 1857 | 0 | 0 | 0 | 0 |
| ## 1858 | 1 | 0 | 0 | 1 |
| ## 1859 | 0 | 0 | 0 | 0 |
| ## 1860 | 0 | 0 | 0 | 1 |
| ## 1861 | 1 | 0 | 0 | 0 |
| ## 1863 | 1 | 0 | 0 | 0 |
| ## 1864 | 1 | 0 | 0 | 0 |
| ## 1866 | 0 | 0 | 0 | 0 |
| ## 1867 | 0 | 0 | 0 | 0 |
| ## 1868 | 0 | 0 | 1 | 0 |
| ## 1869 | 0 | 1 | 1 | 0 |
| ## 1870 | 1 | 0 | 0 | 0 |
| ## 1871 | 1 | 0 | 0 | 0 |
| ## 1872 | 0 | 0 | 1 | 0 |
| ## 1875 | 1 | 0 | 0 | 0 |
| ## 1876 | 0 | 0 | 0 | 0 |
| ## 1877 | 1 | 0 | 1 | 1 |
| ## 1878 | 0 | 0 | 0 | 1 |
| ## 1879 | 0 | 0 | 0 | 0 |
| ## 1880 | 1 | 0 | 0 | 0 |
| ## 1882 | 0 | 0 | 1 | 0 |
| ## 1883 | 0 | 0 | 0 | 0 |
| ## 1885 | 1 | 0 | 1 | 0 |
| ## 1886 | 0 | 0 | 0 | 1 |
| ## 1887 | 1 | 0 | 0 | 0 |
| ## 1888 | 1 | 0 | 0 | 0 |
| ## 1889 | 1 | 0 | 1 | 1 |
| ## 1890 | 0 | 0 | 0 | 0 |
| ## 1891 | 0 | 0 | 1 | 0 |
| ## 1894 | 0 | 0 | 0 | 0 |
| ## 1895 | 0 | 1 | 0 | 0 |
| ## 1896 | 1 | 0 | 0 | 0 |
| ## 1897 | 0 | 0 | 0 | 0 |
| ## 1898 | 0 | 0 | 0 | 0 |
| ## 1899 | 0 | 0 | 0 | 0 |
| ## 1901 | 1 | 0 | 0 | 1 |
| ## 1902 | 0 | 0 | 0 | 0 |
| ## 1904 | 0 | 0 | 0 | 1 |
| ## 1905 | 1 | 0 | 0 | 1 |
| ## 1906 | 0 | 0 | 0 | 0 |
| ## 1907 | 0 | 0 | 0 | 1 |
| ## 1908 | 0 | 0 | 0 | 0 |
| ## 1909 | 1 | 0 | 0 | 0 |
| ## 1910 | 1 | 0 | 0 | 0 |
| ## 1913 | 0 | 0 | 1 | 0 |
| ## 1914 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1915 | 0 | 0 | 1 | 1 |
| ## 1916 | 0 | 0 | 0 | 1 |
| ## 1917 | 1 | 0 | 1 | 0 |
| ## 1918 | 1 | 0 | 0 | 0 |
| ## 1920 | 1 | 0 | 0 | 1 |
| ## 1921 | 0 | 0 | 0 | 0 |
| ## 1923 | 1 | 0 | 0 | 0 |
| ## 1924 | 1 | 0 | 0 | 0 |
| ## 1925 | 1 | 0 | 1 | 1 |
| ## 1926 | 1 | 0 | 0 | 0 |
| ## 1927 | 0 | 0 | 0 | 0 |
| ## 1928 | 1 | 0 | 0 | 0 |
| ## 1929 | 1 | 0 | 0 | 0 |
| ## 1932 | 0 | 0 | 0 | 0 |
| ## 1933 | 0 | 0 | 0 | 0 |
| ## 1934 | 1 | 0 | 1 | 0 |
| ## 1935 | 1 | 0 | 0 | 0 |
| ## 1936 | 1 | 0 | 0 | 1 |
| ## 1937 | 0 | 0 | 0 | 0 |
| ## 1939 | 0 | 0 | 0 | 0 |
| ## 1940 | 0 | 0 | 0 | 0 |
| ## 1942 | 1 | 0 | 0 | 0 |
| ## 1943 | 0 | 0 | 1 | 0 |
| ## 1944 | 1 | 0 | 1 | 0 |
| ## 1945 | 1 | 1 | 1 | 0 |
| ## 1946 | 1 | 0 | 0 | 0 |
| ## 1947 | 1 | 0 | 0 | 0 |
| ## 1948 | 1 | 0 | 0 | 1 |
| ## 1951 | 0 | 0 | 1 | 0 |
| ## 1952 | 0 | 0 | 0 | 0 |
| ## 1953 | 1 | 1 | 0 | 0 |
| ## 1954 | 1 | 0 | 0 | 0 |
| ## 1955 | 1 | 0 | 0 | 0 |
| ## 1956 | 0 | 0 | 0 | 1 |
| ## 1958 | 1 | 0 | 0 | 0 |
| ## 1959 | 1 | 0 | 0 | 0 |
| ## 1961 | 0 | 0 | 0 | 0 |
| ## 1962 | 1 | 0 | 0 | 0 |
| ## 1963 | 0 | 0 | 0 | 0 |
| ## 1964 | 1 | 0 | 0 | 0 |
| ## 1965 | 1 | 0 | 0 | 1 |
| ## 1966 | 0 | 0 | 0 | 0 |
| ## 1967 | 1 | 0 | 1 | 0 |
| ## 1970 | 1 | 1 | 0 | 0 |
| ## 1971 | 0 | 0 | 0 | 0 |
| ## 1972 | 1 | 0 | 0 | 0 |
| ## 1973 | 1 | 0 | 0 | 0 |
| ## 1974 | 0 | 0 | 1 | 0 |
| ## 1975 | 0 | 0 | 0 | 1 |
| ## 1977 | 0 | 0 | 0 | 0 |
| ## 1978 | 0 | 0 | 0 | 0 |
| ## 1980 | 0 | 0 | 0 | 0 |
| ## 1981 | 1 | 0 | 0 | 0 |
| ## 1982 | 0 | 0 | 1 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1983 | 0 | 0 | 0 | 0 |
| ## 1984 | 0 | 0 | 0 | 0 |
| ## 1985 | 0 | 0 | 0 | 1 |
| ## 1986 | 0 | 0 | 1 | 0 |
| ## 1989 | 1 | 0 | 1 | 0 |
| ## 1990 | 0 | 0 | 0 | 0 |
| ## 1991 | 1 | 1 | 0 | 0 |
| ## 1992 | 0 | 0 | 0 | 0 |
| ## 1993 | 1 | 0 | 0 | 0 |
| ## 1994 | 1 | 0 | 0 | 0 |
| ## 1996 | 1 | 0 | 0 | 0 |
| ## 1997 | 1 | 0 | 0 | 1 |
| ## 1999 | 0 | 0 | 0 | 1 |
| ## 2000 | 0 | 0 | 1 | 0 |
| ## 2001 | 1 | 0 | 1 | 0 |
| ## 2002 | 1 | 0 | 0 | 0 |
| ## 2003 | 1 | 0 | 0 | 0 |
| ## 2004 | 0 | 0 | 0 | 0 |
| ## 2005 | 1 | 1 | 0 | 0 |
| ## 2008 | 0 | 0 | 0 | 0 |
| ## 2009 | 0 | 0 | 0 | 0 |
| ## 2010 | 1 | 0 | 1 | 0 |
| ## 2011 | 1 | 0 | 1 | 1 |
| ## 2012 | 0 | 0 | 1 | 1 |
| ## 2013 | 1 | 0 | 0 | 0 |
| ## 2015 | 1 | 0 | 0 | 0 |
| ## 2016 | 0 | 0 | 0 | 1 |
| ## 2018 | 0 | 1 | 0 | 0 |
| ## 2019 | 0 | 0 | 1 | 0 |
| ## 2020 | 1 | 0 | 0 | 0 |
| ## 2021 | 0 | 0 | 0 | 0 |
| ## 2022 | 1 | 1 | 0 | 0 |
| ## 2023 | 0 | 0 | 0 | 0 |
| ## 2024 | 0 | 0 | 0 | 0 |
| ## 2027 | 1 | 0 | 0 | 0 |
| ## 2028 | 1 | 0 | 0 | 0 |
| ## 2029 | 0 | 1 | 0 | 0 |
| ## 2030 | 0 | 0 | 0 | 1 |
| ## 2031 | 0 | 0 | 0 | 0 |
| ## 2032 | 0 | 0 | 1 | 0 |
| ## 2034 | 1 | 0 | 0 | 0 |
| ## 2035 | 1 | 0 | 0 | 1 |
| ## 2037 | 1 | 0 | 0 | 0 |
| ## 2038 | 1 | 0 | 0 | 0 |
| ## 2039 | 1 | 0 | 0 | 0 |
| ## 2040 | 0 | 0 | 0 | 0 |
| ## 2041 | 0 | 0 | 0 | 0 |
| ## 2042 | 1 | 0 | 0 | 1 |
| ## 2043 | 0 | 0 | 0 | 0 |
| ## 2046 | 1 | 0 | 0 | 0 |
| ## 2047 | 1 | 0 | 0 | 0 |
| ## 2048 | 0 | 0 | 1 | 1 |
| ## 2049 | 0 | 0 | 0 | 1 |
| ## 2050 | 1 | 0 | 1 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 2051 | 0 | 0 | 1 | 0 |
| ## 2053 | 1 | 0 | 1 | 0 |
| ## 2054 | 1 | 0 | 0 | 0 |
| ## 2056 | 0 | 0 | 1 | 0 |
| ## 2057 | 1 | 1 | 0 | 0 |
| ## 2058 | 1 | 0 | 0 | 0 |
| ## 2059 | 1 | 0 | 1 | 0 |
| ## 2060 | 0 | 0 | 0 | 0 |
| ## 2061 | 0 | 0 | 1 | 0 |
| ## 2062 | 0 | 0 | 1 | 0 |
| ## 2065 | 0 | 1 | 0 | 0 |
| ## 2066 | 1 | 0 | 0 | 0 |
| ## 2067 | 0 | 0 | 0 | 0 |
| ## 2068 | 1 | 0 | 0 | 0 |
| ## 2069 | 1 | 0 | 1 | 0 |
| ## 2070 | 0 | 0 | 0 | 0 |
| ## 2072 | 1 | 1 | 1 | 0 |
| ## 2073 | 0 | 0 | 0 | 0 |
| ## 2075 | 0 | 0 | 1 | 0 |
| ## 2076 | 1 | 0 | 0 | 0 |
| ## 2077 | 0 | 0 | 0 | 1 |
| ## 2078 | 0 | 0 | 0 | 0 |
| ## 2079 | 1 | 0 | 0 | 0 |
| ## 2080 | 0 | 0 | 0 | 0 |
| ## 2081 | 1 | 0 | 0 | 0 |
| ## 2084 | 1 | 0 | 0 | 0 |
| ## 2085 | 1 | 0 | 0 | 0 |
| ## 2086 | 0 | 0 | 0 | 0 |
| ## 2087 | 1 | 0 | 0 | 0 |
| ## 2088 | 0 | 0 | 0 | 1 |
| ## 2089 | 1 | 0 | 0 | 0 |
| ## 2091 | 1 | 0 | 0 | 0 |
| ## 2092 | 0 | 1 | 0 | 0 |
| ## 2094 | 1 | 0 | 0 | 0 |
| ## 2095 | 1 | 0 | 1 | 0 |
| ## 2096 | 0 | 0 | 1 | 0 |
| ## 2097 | 1 | 0 | 1 | 0 |
| ## 2098 | 1 | 0 | 0 | 0 |
| ## 2099 | 0 | 0 | 0 | 0 |
| ## 2100 | 1 | 0 | 1 | 1 |
| ## 2103 | 0 | 1 | 0 | 0 |
| ## 2104 | 0 | 0 | 1 | 1 |
| ## 2105 | 0 | 0 | 1 | 0 |
| ## 2106 | 1 | 0 | 0 | 1 |
| ## 2107 | 0 | 0 | 0 | 0 |
| ## 2108 | 1 | 0 | 0 | 0 |
| ## 2110 | 1 | 1 | 0 | 0 |
| ## 2111 | 1 | 0 | 0 | 0 |
| ## 2113 | 0 | 1 | 0 | 0 |
| ## 2114 | 0 | 0 | 0 | 0 |
| ## 2115 | 0 | 1 | 1 | 0 |
| ## 2116 | 0 | 0 | 0 | 0 |
| ## 2117 | 1 | 0 | 0 | 1 |
| ## 2118 | 1 | 0 | 1 | 0 |

```

## 2119      0      0      0      1
## 2122      1      0      0      0
## 2123      0      0      0      0
## 2124      1      0      0      0
## 2125      1      0      0      0
## 2126      0      0      0      0
## 2127      0      0      0      0
## 2129      1      1      0      1
## 2130      1      0      0      1
## 2132      0      0      0      0
## 2133      1      0      0      1
## 2134      1      0      0      0
## 2135      1      0      0      0
## 2136      0      0      1      0
## 2137      1      0      0      0
## 2138      1      0      0      0
## 2141      1      0      0      0
## 2142      1      0      0      0
## 2143      1      0      0      1
## 2144      0      0      0      1
## 2145      1      0      0      0
## 2146      1      0      0      0
## 2148      0      1      1      0
## 2149      0      1      1      0
## 2151      0      0      0      0
## 2152      1      0      0      0
## 2153      0      0      1      0
## EDUCATION_Bachelors EDUCATION_z_High.School yojSquared bluebook_log
## 1            1      0     144    9.766006
## 3            1      0     100    9.323758
## 4            0      0     196    9.814711
## 5            0      0     121   10.252065
## 6            0      0      0     8.699681
## 7            0      1     169    9.072342
## 8            0      0     169   10.187199
## 9            0      1      81    9.213436
## 12           0      0     196   10.384091
## 13           1      0     144    9.562475
## 14           0      1     144    8.836519
## 15           0      0      64    7.979681
## 16           0      0     121    9.878734
## 17           1      0     121    7.313887
## 19           0      1     144    9.173780
## 20           0      1      36    9.483492
## 22           0      0     100    9.411729
## 23           0      0      49   10.058395
## 24           0      1      0     9.621854
## 25           1      0      0     9.461177
## 26           1      0     121    9.460398
## 27           0      0      49   8.974745
## 28           0      0      64   10.394855
## 31           1      0      0     9.890959
## 32           0      0      0     8.648397
## 33           0      0     225   9.482731

```

| | | | | |
|--------|---|---|-----|-----------|
| ## 34 | 0 | 0 | 256 | 9.665294 |
| ## 35 | 0 | 0 | 324 | 9.920885 |
| ## 36 | 0 | 0 | 144 | 9.485013 |
| ## 38 | 0 | 1 | 0 | 9.711782 |
| ## 39 | 1 | 0 | 225 | 9.203416 |
| ## 41 | 0 | 1 | 196 | 9.467383 |
| ## 42 | 0 | 1 | 0 | 7.313887 |
| ## 43 | 0 | 0 | 121 | 10.658459 |
| ## 44 | 0 | 0 | 169 | 9.536113 |
| ## 45 | 0 | 0 | 196 | 9.549024 |
| ## 46 | 0 | 0 | 144 | 9.607168 |
| ## 47 | 0 | 0 | 144 | 10.091253 |
| ## 50 | 0 | 0 | 121 | 10.317615 |
| ## 51 | 0 | 0 | 144 | 8.881975 |
| ## 52 | 0 | 1 | 64 | 10.019090 |
| ## 53 | 0 | 1 | 0 | 9.806481 |
| ## 54 | 0 | 0 | 169 | 8.942592 |
| ## 55 | 0 | 0 | 81 | 8.575651 |
| ## 57 | 0 | 0 | 64 | 8.039480 |
| ## 58 | 0 | 0 | 169 | 9.908027 |
| ## 60 | 0 | 1 | 144 | 9.363147 |
| ## 61 | 1 | 0 | 144 | 9.371694 |
| ## 62 | 0 | 1 | 16 | 8.716208 |
| ## 63 | 0 | 0 | 144 | 10.054103 |
| ## 64 | 0 | 1 | 81 | 9.934550 |
| ## 65 | 0 | 1 | 64 | 10.014179 |
| ## 66 | 0 | 0 | 0 | 8.699681 |
| ## 69 | 1 | 0 | 144 | 10.063521 |
| ## 70 | 0 | 0 | 196 | 8.848078 |
| ## 71 | 0 | 1 | 81 | 10.265036 |
| ## 72 | 0 | 1 | 81 | 9.348449 |
| ## 73 | 1 | 0 | 121 | 10.039809 |
| ## 74 | 0 | 1 | 49 | 9.703267 |
| ## 76 | 0 | 1 | 169 | 9.231221 |
| ## 77 | 0 | 1 | 144 | 8.605387 |
| ## 79 | 1 | 0 | 0 | 9.054972 |
| ## 80 | 0 | 1 | 144 | 8.982310 |
| ## 81 | 0 | 0 | 64 | 10.282643 |
| ## 82 | 1 | 0 | 0 | 8.318986 |
| ## 83 | 0 | 1 | 121 | 9.351058 |
| ## 84 | 0 | 1 | 64 | 10.143331 |
| ## 85 | 0 | 0 | 121 | 10.107285 |
| ## 88 | 0 | 0 | 0 | 7.313887 |
| ## 89 | 0 | 0 | 169 | 9.133567 |
| ## 90 | 0 | 1 | 169 | 9.379323 |
| ## 91 | 1 | 0 | 121 | 9.344959 |
| ## 92 | 0 | 1 | 144 | 10.031045 |
| ## 93 | 0 | 1 | 49 | 8.912069 |
| ## 95 | 0 | 1 | 121 | 9.991544 |
| ## 96 | 0 | 1 | 64 | 8.764210 |
| ## 98 | 1 | 0 | 36 | 9.551160 |
| ## 99 | 1 | 0 | 25 | 9.144307 |
| ## 100 | 0 | 0 | 25 | 9.695910 |
| ## 101 | 0 | 1 | 144 | 8.455531 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 102 | 0 | 0 | 324 | 9.850140 |
| ## 103 | 0 | 0 | 169 | 10.176602 |
| ## 104 | 1 | 0 | 225 | 9.572271 |
| ## 107 | 0 | 1 | 81 | 9.119430 |
| ## 108 | 0 | 1 | 49 | 8.623533 |
| ## 109 | 0 | 0 | 289 | 9.564582 |
| ## 110 | 0 | 1 | 225 | 9.269646 |
| ## 111 | 0 | 1 | 121 | 9.267760 |
| ## 112 | 1 | 0 | 100 | 8.960725 |
| ## 114 | 0 | 1 | 121 | 9.123802 |
| ## 115 | 1 | 0 | 225 | 9.387733 |
| ## 117 | 0 | 1 | 169 | 8.994793 |
| ## 118 | 1 | 0 | 121 | 9.912497 |
| ## 119 | 0 | 0 | 121 | 8.306719 |
| ## 120 | 0 | 0 | 169 | 8.779711 |
| ## 121 | 0 | 1 | 169 | 10.273705 |
| ## 122 | 0 | 0 | 36 | 9.463509 |
| ## 123 | 0 | 1 | 169 | 9.128154 |
| ## 126 | 1 | 0 | 144 | 8.665786 |
| ## 127 | 1 | 0 | 100 | 9.983269 |
| ## 128 | 0 | 1 | 0 | 9.359708 |
| ## 129 | 0 | 0 | 121 | 10.055393 |
| ## 130 | 1 | 0 | 225 | 7.313887 |
| ## 131 | 0 | 0 | 100 | 10.026634 |
| ## 133 | 1 | 0 | 225 | 8.537192 |
| ## 134 | 0 | 1 | 196 | 9.546884 |
| ## 136 | 1 | 0 | 196 | 9.780246 |
| ## 137 | 0 | 1 | 81 | 10.069044 |
| ## 138 | 1 | 0 | 64 | 8.865170 |
| ## 139 | 0 | 1 | 121 | 10.452793 |
| ## 140 | 0 | 0 | 64 | 10.099917 |
| ## 141 | 0 | 1 | 144 | 9.867912 |
| ## 142 | 1 | 0 | 121 | 9.513477 |
| ## 145 | 0 | 0 | 256 | 8.949105 |
| ## 146 | 0 | 0 | 100 | 9.300272 |
| ## 147 | 0 | 0 | 169 | 9.718422 |
| ## 148 | 0 | 0 | 144 | 8.268988 |
| ## 149 | 0 | 0 | 169 | 9.965100 |
| ## 150 | 0 | 0 | 121 | 10.033682 |
| ## 152 | 0 | 0 | 121 | 8.412055 |
| ## 153 | 1 | 0 | 81 | 10.493522 |
| ## 155 | 0 | 0 | 100 | 8.761080 |
| ## 156 | 1 | 0 | 100 | 9.845382 |
| ## 157 | 0 | 0 | 0 | 7.893945 |
| ## 158 | 0 | 1 | 64 | 9.668461 |
| ## 159 | 0 | 0 | 196 | 9.618535 |
| ## 160 | 0 | 0 | 100 | 8.776630 |
| ## 161 | 1 | 0 | 196 | 9.003439 |
| ## 164 | 0 | 1 | 81 | 8.412055 |
| ## 165 | 0 | 1 | 121 | 8.674368 |
| ## 166 | 1 | 0 | 9 | 9.122711 |
| ## 167 | 0 | 1 | 121 | 9.074635 |
| ## 168 | 1 | 0 | 169 | 9.405989 |
| ## 169 | 0 | 1 | 196 | 8.993552 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 171 | 0 | 1 | 81 | 9.257319 |
| ## 172 | 1 | 0 | 36 | 8.867991 |
| ## 174 | 1 | 0 | 256 | 10.086267 |
| ## 175 | 1 | 0 | 81 | 10.137808 |
| ## 176 | 1 | 0 | 49 | 7.692113 |
| ## 177 | 0 | 1 | 0 | 7.313887 |
| ## 178 | 1 | 0 | 100 | 9.775711 |
| ## 179 | 0 | 0 | 225 | 10.222705 |
| ## 180 | 0 | 0 | 169 | 9.686015 |
| ## 183 | 1 | 0 | 100 | 9.946116 |
| ## 184 | 0 | 0 | 81 | 10.502077 |
| ## 185 | 0 | 0 | 81 | 10.510287 |
| ## 186 | 0 | 1 | 196 | 9.266815 |
| ## 187 | 0 | 1 | 169 | 8.588769 |
| ## 188 | 1 | 0 | 0 | 8.764210 |
| ## 190 | 1 | 0 | 169 | 9.538996 |
| ## 191 | 0 | 1 | 121 | 8.476580 |
| ## 193 | 0 | 1 | 0 | 9.222368 |
| ## 194 | 0 | 1 | 144 | 8.748464 |
| ## 195 | 1 | 0 | 144 | 10.185692 |
| ## 196 | 0 | 1 | 196 | 10.192831 |
| ## 197 | 0 | 1 | 64 | 9.150697 |
| ## 198 | 0 | 1 | 169 | 9.378478 |
| ## 199 | 0 | 0 | 81 | 10.156229 |
| ## 202 | 0 | 0 | 144 | 9.426338 |
| ## 203 | 0 | 1 | 121 | 9.762557 |
| ## 204 | 0 | 1 | 121 | 9.454932 |
| ## 205 | 0 | 1 | 196 | 9.506809 |
| ## 206 | 0 | 0 | 100 | 9.932609 |
| ## 207 | 0 | 0 | 169 | 10.328134 |
| ## 209 | 0 | 1 | 81 | 8.619930 |
| ## 210 | 0 | 1 | 0 | 9.371694 |
| ## 212 | 0 | 1 | 0 | 8.812992 |
| ## 213 | 0 | 0 | 256 | 9.282754 |
| ## 214 | 0 | 0 | 256 | 9.376787 |
| ## 215 | 0 | 1 | 0 | 9.581973 |
| ## 216 | 0 | 1 | 144 | 7.754053 |
| ## 217 | 1 | 0 | 100 | 9.157045 |
| ## 218 | 0 | 0 | 64 | 9.976784 |
| ## 221 | 1 | 0 | 121 | 9.805378 |
| ## 222 | 0 | 1 | 0 | 8.974745 |
| ## 223 | 1 | 0 | 0 | 8.517393 |
| ## 224 | 0 | 1 | 0 | 8.812992 |
| ## 225 | 0 | 0 | 0 | 10.070315 |
| ## 226 | 0 | 1 | 121 | 9.061956 |
| ## 228 | 0 | 0 | 100 | 10.029724 |
| ## 229 | 0 | 1 | 256 | 9.589530 |
| ## 231 | 0 | 1 | 196 | 8.699681 |
| ## 232 | 1 | 0 | 100 | 8.674368 |
| ## 233 | 0 | 0 | 256 | 9.993374 |
| ## 234 | 0 | 1 | 121 | 9.621191 |
| ## 235 | 0 | 0 | 100 | 9.058470 |
| ## 236 | 0 | 1 | 196 | 9.097284 |
| ## 237 | 0 | 1 | 81 | 9.326433 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 240 | 0 | 1 | 169 | 8.581294 |
| ## 241 | 0 | 1 | 100 | 9.659567 |
| ## 242 | 0 | 0 | 196 | 9.303011 |
| ## 243 | 1 | 0 | 144 | 9.241936 |
| ## 244 | 0 | 1 | 121 | 9.587475 |
| ## 245 | 0 | 1 | 256 | 10.062668 |
| ## 247 | 0 | 0 | 144 | 8.594339 |
| ## 248 | 0 | 0 | 196 | 8.956866 |
| ## 250 | 1 | 0 | 100 | 9.410911 |
| ## 251 | 0 | 0 | 81 | 9.981420 |
| ## 252 | 0 | 1 | 196 | 7.313887 |
| ## 253 | 0 | 0 | 0 | 8.568076 |
| ## 254 | 0 | 0 | 144 | 9.558247 |
| ## 255 | 1 | 0 | 64 | 10.523553 |
| ## 256 | 0 | 0 | 144 | 7.313887 |
| ## 259 | 1 | 0 | 0 | 7.313887 |
| ## 260 | 0 | 1 | 169 | 9.206433 |
| ## 261 | 0 | 1 | 81 | 9.842197 |
| ## 262 | 0 | 1 | 169 | 9.484253 |
| ## 263 | 0 | 0 | 256 | 8.474494 |
| ## 264 | 0 | 0 | 169 | 9.888425 |
| ## 266 | 1 | 0 | 196 | 9.940350 |
| ## 267 | 0 | 0 | 49 | 9.367430 |
| ## 269 | 0 | 0 | 121 | 9.893993 |
| ## 270 | 0 | 0 | 121 | 9.601774 |
| ## 271 | 0 | 0 | 144 | 9.999298 |
| ## 272 | 1 | 0 | 100 | 8.243019 |
| ## 273 | 0 | 0 | 100 | 9.273409 |
| ## 274 | 1 | 0 | 36 | 9.939385 |
| ## 275 | 0 | 0 | 121 | 9.436759 |
| ## 278 | 0 | 1 | 0 | 8.987322 |
| ## 279 | 0 | 0 | 100 | 9.470471 |
| ## 280 | 0 | 1 | 121 | 9.903037 |
| ## 281 | 0 | 1 | 144 | 8.537192 |
| ## 282 | 1 | 0 | 0 | 8.863757 |
| ## 283 | 0 | 0 | 0 | 10.045898 |
| ## 285 | 1 | 0 | 49 | 8.810012 |
| ## 286 | 1 | 0 | 49 | 9.556126 |
| ## 288 | 0 | 0 | 196 | 10.012835 |
| ## 289 | 0 | 1 | 169 | 9.692828 |
| ## 290 | 0 | 1 | 144 | 9.314790 |
| ## 291 | 0 | 0 | 100 | 8.801018 |
| ## 292 | 0 | 1 | 0 | 9.361429 |
| ## 293 | 0 | 0 | 0 | 8.963288 |
| ## 294 | 0 | 1 | 25 | 8.876405 |
| ## 297 | 0 | 1 | 289 | 9.292934 |
| ## 298 | 0 | 0 | 169 | 8.810012 |
| ## 299 | 0 | 0 | 100 | 9.148571 |
| ## 300 | 0 | 0 | 121 | 9.895002 |
| ## 301 | 0 | 0 | 144 | 9.784760 |
| ## 302 | 0 | 0 | 196 | 9.273409 |
| ## 304 | 0 | 0 | 196 | 8.592486 |
| ## 305 | 0 | 0 | 169 | 9.605822 |
| ## 307 | 0 | 0 | 144 | 9.155990 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 308 | 0 | 1 | 121 | 9.169623 |
| ## 309 | 1 | 0 | 0 | 9.423918 |
| ## 310 | 0 | 1 | 0 | 8.958154 |
| ## 311 | 0 | 0 | 196 | 9.781941 |
| ## 312 | 0 | 1 | 256 | 9.853825 |
| ## 313 | 0 | 1 | 100 | 9.789815 |
| ## 316 | 1 | 0 | 121 | 9.657651 |
| ## 317 | 0 | 1 | 169 | 9.027739 |
| ## 318 | 0 | 1 | 0 | 9.511999 |
| ## 319 | 0 | 1 | 144 | 9.144307 |
| ## 320 | 0 | 0 | 100 | 10.071161 |
| ## 321 | 0 | 1 | 169 | 9.430359 |
| ## 323 | 0 | 0 | 196 | 10.246048 |
| ## 324 | 1 | 0 | 196 | 9.102867 |
| ## 326 | 0 | 0 | 100 | 9.395242 |
| ## 327 | 0 | 0 | 144 | 9.407633 |
| ## 328 | 0 | 1 | 144 | 8.653645 |
| ## 329 | 0 | 0 | 36 | 8.853808 |
| ## 330 | 1 | 0 | 121 | 9.672249 |
| ## 331 | 0 | 1 | 100 | 7.313887 |
| ## 332 | 0 | 0 | 169 | 10.275775 |
| ## 335 | 0 | 1 | 169 | 9.193296 |
| ## 336 | 0 | 1 | 121 | 8.842316 |
| ## 337 | 0 | 0 | 0 | 9.581973 |
| ## 338 | 0 | 0 | 144 | 9.331761 |
| ## 339 | 0 | 0 | 49 | 10.839012 |
| ## 340 | 1 | 0 | 196 | 10.354277 |
| ## 342 | 0 | 0 | 256 | 9.636980 |
| ## 343 | 0 | 1 | 196 | 8.665786 |
| ## 345 | 0 | 1 | 225 | 9.945157 |
| ## 346 | 1 | 0 | 81 | 10.410937 |
| ## 347 | 0 | 1 | 144 | 9.851720 |
| ## 348 | 0 | 0 | 169 | 9.949942 |
| ## 349 | 0 | 0 | 121 | 9.370842 |
| ## 350 | 1 | 0 | 225 | 8.779711 |
| ## 351 | 0 | 0 | 64 | 9.162305 |
| ## 354 | 0 | 0 | 144 | 8.537192 |
| ## 355 | 0 | 1 | 169 | 9.434364 |
| ## 356 | 0 | 1 | 225 | 9.986035 |
| ## 357 | 1 | 0 | 121 | 8.796490 |
| ## 358 | 1 | 0 | 4 | 9.185125 |
| ## 359 | 0 | 0 | 196 | 9.804827 |
| ## 361 | 0 | 1 | 144 | 8.765771 |
| ## 362 | 0 | 1 | 0 | 10.127471 |
| ## 364 | 0 | 0 | 144 | 8.891649 |
| ## 365 | 1 | 0 | 0 | 8.455531 |
| ## 366 | 0 | 0 | 0 | 9.736311 |
| ## 367 | 0 | 0 | 36 | 9.873595 |
| ## 368 | 1 | 0 | 121 | 9.357984 |
| ## 369 | 0 | 0 | 256 | 10.310651 |
| ## 370 | 0 | 1 | 81 | 9.493336 |
| ## 373 | 0 | 1 | 81 | 10.054963 |
| ## 374 | 0 | 0 | 121 | 9.936003 |
| ## 375 | 0 | 1 | 36 | 10.058823 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 376 | 0 | 1 | 144 | 9.303922 |
| ## 377 | 1 | 0 | 225 | 9.856972 |
| ## 378 | 0 | 0 | 49 | 10.225245 |
| ## 380 | 0 | 1 | 256 | 9.676650 |
| ## 381 | 1 | 0 | 144 | 10.002020 |
| ## 383 | 0 | 0 | 81 | 9.868430 |
| ## 384 | 0 | 0 | 256 | 10.432968 |
| ## 385 | 0 | 1 | 16 | 9.534668 |
| ## 386 | 0 | 0 | 169 | 10.491024 |
| ## 387 | 0 | 1 | 100 | 10.226332 |
| ## 388 | 0 | 0 | 144 | 9.987875 |
| ## 389 | 0 | 1 | 256 | 10.072851 |
| ## 392 | 0 | 0 | 196 | 10.280930 |
| ## 393 | 1 | 0 | 0 | 9.429556 |
| ## 394 | 0 | 1 | 64 | 8.977273 |
| ## 395 | 0 | 1 | 196 | 8.556606 |
| ## 396 | 1 | 0 | 196 | 9.752723 |
| ## 397 | 1 | 0 | 0 | 8.839422 |
| ## 399 | 0 | 0 | 121 | 9.533221 |
| ## 400 | 0 | 1 | 36 | 9.458840 |
| ## 402 | 0 | 0 | 225 | 7.727976 |
| ## 403 | 0 | 1 | 9 | 8.343078 |
| ## 404 | 0 | 1 | 225 | 8.869398 |
| ## 405 | 0 | 0 | 121 | 9.438352 |
| ## 406 | 0 | 0 | 64 | 9.449436 |
| ## 407 | 0 | 1 | 144 | 8.521384 |
| ## 408 | 0 | 1 | 81 | 8.762646 |
| ## 411 | 0 | 0 | 81 | 7.313887 |
| ## 412 | 0 | 0 | 144 | 9.748645 |
| ## 413 | 1 | 0 | 100 | 10.088348 |
| ## 414 | 0 | 1 | 144 | 10.208801 |
| ## 415 | 0 | 0 | 144 | 9.669093 |
| ## 416 | 0 | 1 | 49 | 8.812992 |
| ## 418 | 1 | 0 | 64 | 9.984653 |
| ## 419 | 0 | 1 | 169 | 7.897668 |
| ## 421 | 1 | 0 | 0 | 8.768885 |
| ## 422 | 0 | 1 | 121 | 8.630700 |
| ## 423 | 0 | 1 | 0 | 9.066585 |
| ## 424 | 0 | 1 | 64 | 9.287394 |
| ## 425 | 1 | 0 | 256 | 8.672657 |
| ## 426 | 1 | 0 | 64 | 8.848078 |
| ## 427 | 0 | 1 | 225 | 9.483492 |
| ## 430 | 0 | 1 | 64 | 9.559658 |
| ## 431 | 0 | 1 | 196 | 9.770013 |
| ## 432 | 1 | 0 | 121 | 9.451795 |
| ## 433 | 0 | 0 | 64 | 7.313887 |
| ## 434 | 0 | 0 | 144 | 9.317489 |
| ## 435 | 1 | 0 | 144 | 9.489562 |
| ## 437 | 0 | 1 | 196 | 9.123802 |
| ## 438 | 0 | 1 | 64 | 8.982310 |
| ## 440 | 0 | 0 | 169 | 9.863238 |
| ## 441 | 1 | 0 | 121 | 9.858542 |
| ## 442 | 0 | 1 | 169 | 10.229585 |
| ## 443 | 0 | 1 | 100 | 8.748464 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 444 | 1 | 0 | 0 | 9.096163 |
| ## 445 | 1 | 0 | 0 | 8.533263 |
| ## 446 | 0 | 0 | 121 | 8.926783 |
| ## 449 | 0 | 0 | 169 | 9.634366 |
| ## 450 | 1 | 0 | 169 | 9.442325 |
| ## 451 | 0 | 1 | 0 | 8.867991 |
| ## 452 | 0 | 0 | 144 | 8.982310 |
| ## 453 | 0 | 0 | 100 | 9.190240 |
| ## 454 | 0 | 1 | 169 | 9.763133 |
| ## 456 | 0 | 0 | 81 | 9.898525 |
| ## 457 | 1 | 0 | 121 | 9.792053 |
| ## 459 | 1 | 0 | 256 | 9.387733 |
| ## 460 | 0 | 0 | 196 | 8.497195 |
| ## 461 | 0 | 0 | 196 | 9.610525 |
| ## 462 | 0 | 1 | 0 | 8.682877 |
| ## 463 | 0 | 1 | 121 | 9.552582 |
| ## 464 | 0 | 1 | 100 | 8.575651 |
| ## 465 | 0 | 0 | 100 | 8.497195 |
| ## 468 | 0 | 1 | 121 | 7.576097 |
| ## 469 | 0 | 0 | 169 | 9.183072 |
| ## 470 | 1 | 0 | 256 | 10.127071 |
| ## 471 | 0 | 0 | 144 | 10.215777 |
| ## 472 | 1 | 0 | 144 | 9.357121 |
| ## 473 | 1 | 0 | 169 | 9.136801 |
| ## 475 | 0 | 0 | 0 | 8.977273 |
| ## 476 | 0 | 1 | 169 | 9.942756 |
| ## 478 | 0 | 1 | 144 | 8.867991 |
| ## 479 | 0 | 1 | 225 | 9.362289 |
| ## 480 | 1 | 0 | 0 | 8.412055 |
| ## 481 | 1 | 0 | 169 | 9.541154 |
| ## 482 | 1 | 0 | 169 | 9.273409 |
| ## 483 | 0 | 0 | 121 | 9.973993 |
| ## 484 | 1 | 0 | 121 | 8.630700 |
| ## 487 | 1 | 0 | 144 | 7.313887 |
| ## 488 | 0 | 1 | 100 | 9.358847 |
| ## 489 | 0 | 1 | 196 | 9.399389 |
| ## 490 | 0 | 0 | 0 | 9.506065 |
| ## 491 | 1 | 0 | 121 | 9.465835 |
| ## 492 | 1 | 0 | 0 | 8.318986 |
| ## 494 | 0 | 0 | 64 | 10.146865 |
| ## 495 | 0 | 1 | 196 | 8.610866 |
| ## 497 | 0 | 1 | 196 | 9.278092 |
| ## 498 | 0 | 1 | 121 | 9.724421 |
| ## 499 | 1 | 0 | 0 | 9.307558 |
| ## 500 | 0 | 0 | 121 | 10.002020 |
| ## 501 | 1 | 0 | 144 | 9.173780 |
| ## 502 | 0 | 1 | 64 | 9.894497 |
| ## 503 | 0 | 0 | 196 | 10.136621 |
| ## 506 | 0 | 1 | 121 | 9.321076 |
| ## 507 | 1 | 0 | 100 | 8.810012 |
| ## 508 | 0 | 0 | 225 | 9.623178 |
| ## 509 | 0 | 0 | 16 | 8.856661 |
| ## 510 | 0 | 0 | 144 | 9.899530 |
| ## 511 | 1 | 0 | 225 | 9.420682 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 513 | 0 | 0 | 169 | 8.343078 |
| ## 514 | 0 | 1 | 0 | 8.776630 |
| ## 516 | 0 | 1 | 0 | 8.575651 |
| ## 517 | 0 | 0 | 25 | 8.472405 |
| ## 518 | 0 | 1 | 100 | 9.245804 |
| ## 519 | 0 | 0 | 100 | 10.270593 |
| ## 520 | 1 | 0 | 100 | 9.999298 |
| ## 521 | 0 | 1 | 169 | 9.236106 |
| ## 522 | 0 | 1 | 81 | 10.537972 |
| ## 525 | 0 | 1 | 256 | 8.529319 |
| ## 526 | 0 | 1 | 121 | 9.209440 |
| ## 527 | 0 | 0 | 225 | 9.633711 |
| ## 528 | 0 | 0 | 49 | 10.219064 |
| ## 529 | 0 | 1 | 169 | 9.216422 |
| ## 530 | 0 | 1 | 196 | 9.194313 |
| ## 532 | 1 | 0 | 121 | 9.742203 |
| ## 533 | 1 | 0 | 169 | 9.648660 |
| ## 535 | 0 | 0 | 0 | 8.922792 |
| ## 536 | 0 | 1 | 100 | 9.284613 |
| ## 537 | 0 | 1 | 100 | 9.523032 |
| ## 538 | 1 | 0 | 196 | 9.606496 |
| ## 539 | 0 | 0 | 100 | 9.205428 |
| ## 540 | 0 | 1 | 121 | 7.313887 |
| ## 541 | 1 | 0 | 121 | 8.974745 |
| ## 544 | 1 | 0 | 81 | 9.382696 |
| ## 545 | 0 | 0 | 100 | 9.887409 |
| ## 546 | 0 | 1 | 121 | 9.761982 |
| ## 547 | 0 | 0 | 0 | 10.632750 |
| ## 548 | 0 | 1 | 121 | 9.594990 |
| ## 549 | 0 | 0 | 121 | 9.741027 |
| ## 551 | 1 | 0 | 100 | 9.803170 |
| ## 552 | 0 | 1 | 81 | 9.919902 |
| ## 554 | 0 | 0 | 81 | 9.780246 |
| ## 555 | 0 | 0 | 49 | 9.351058 |
| ## 556 | 0 | 0 | 64 | 9.941313 |
| ## 557 | 0 | 1 | 100 | 9.789815 |
| ## 558 | 0 | 1 | 144 | 8.497195 |
| ## 559 | 0 | 1 | 144 | 8.294300 |
| ## 560 | 0 | 0 | 49 | 9.581973 |
| ## 563 | 0 | 0 | 64 | 10.334978 |
| ## 564 | 0 | 0 | 49 | 9.321971 |
| ## 565 | 0 | 1 | 256 | 9.705098 |
| ## 566 | 0 | 1 | 196 | 9.448648 |
| ## 567 | 0 | 1 | 0 | 9.260178 |
| ## 568 | 1 | 0 | 121 | 9.478151 |
| ## 570 | 0 | 1 | 100 | 9.031333 |
| ## 571 | 0 | 1 | 25 | 8.497195 |
| ## 573 | 0 | 0 | 144 | 9.049115 |
| ## 574 | 0 | 1 | 49 | 9.669093 |
| ## 575 | 0 | 1 | 144 | 9.316590 |
| ## 576 | 1 | 0 | 225 | 9.729194 |
| ## 577 | 0 | 1 | 169 | 8.712924 |
| ## 578 | 0 | 1 | 121 | 9.728003 |
| ## 579 | 0 | 1 | 81 | 9.923829 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 582 | 0 | 1 | 144 | 7.450661 |
| ## 583 | 0 | 0 | 36 | 9.461177 |
| ## 584 | 0 | 1 | 121 | 8.235095 |
| ## 585 | 0 | 0 | 144 | 9.167537 |
| ## 586 | 0 | 0 | 121 | 10.154285 |
| ## 587 | 1 | 0 | 64 | 9.143239 |
| ## 589 | 0 | 0 | 121 | 9.051462 |
| ## 590 | 1 | 0 | 144 | 8.910721 |
| ## 592 | 0 | 0 | 196 | 9.923339 |
| ## 593 | 0 | 0 | 196 | 9.216422 |
| ## 594 | 0 | 1 | 196 | 9.570878 |
| ## 595 | 0 | 0 | 121 | 9.737492 |
| ## 596 | 0 | 0 | 144 | 8.612685 |
| ## 597 | 1 | 0 | 0 | 8.630700 |
| ## 598 | 0 | 0 | 196 | 9.075780 |
| ## 601 | 0 | 1 | 225 | 9.802064 |
| ## 602 | 1 | 0 | 169 | 10.159331 |
| ## 603 | 0 | 0 | 100 | 7.313887 |
| ## 604 | 0 | 1 | 0 | 10.286400 |
| ## 605 | 1 | 0 | 81 | 9.151757 |
| ## 606 | 0 | 0 | 169 | 9.987415 |
| ## 608 | 1 | 0 | 0 | 8.791942 |
| ## 609 | 0 | 0 | 81 | 9.385218 |
| ## 611 | 0 | 0 | 196 | 9.193296 |
| ## 612 | 0 | 0 | 144 | 9.502338 |
| ## 613 | 1 | 0 | 169 | 9.599744 |
| ## 614 | 0 | 0 | 144 | 9.961804 |
| ## 615 | 0 | 1 | 256 | 9.699595 |
| ## 616 | 1 | 0 | 121 | 10.348526 |
| ## 617 | 1 | 0 | 36 | 7.313887 |
| ## 620 | 0 | 1 | 100 | 9.338822 |
| ## 621 | 0 | 0 | 81 | 9.961332 |
| ## 622 | 0 | 0 | 196 | 9.636327 |
| ## 623 | 0 | 0 | 81 | 9.610525 |
| ## 624 | 1 | 0 | 64 | 8.434029 |
| ## 625 | 0 | 0 | 100 | 10.345638 |
| ## 627 | 0 | 1 | 169 | 8.732466 |
| ## 628 | 0 | 1 | 64 | 10.635158 |
| ## 630 | 0 | 0 | 144 | 8.794976 |
| ## 631 | 1 | 0 | 144 | 10.123065 |
| ## 632 | 0 | 1 | 196 | 8.886133 |
| ## 633 | 0 | 1 | 0 | 9.884865 |
| ## 634 | 0 | 1 | 169 | 10.261197 |
| ## 635 | 0 | 1 | 0 | 8.682877 |
| ## 636 | 0 | 1 | 100 | 9.800956 |
| ## 639 | 0 | 1 | 121 | 9.171703 |
| ## 640 | 0 | 1 | 49 | 9.973993 |
| ## 641 | 0 | 0 | 225 | 9.210440 |
| ## 642 | 0 | 1 | 0 | 8.412055 |
| ## 643 | 1 | 0 | 81 | 9.837935 |
| ## 644 | 1 | 0 | 169 | 9.847499 |
| ## 646 | 1 | 0 | 100 | 9.867912 |
| ## 647 | 0 | 0 | 100 | 9.354527 |
| ## 649 | 0 | 1 | 100 | 9.273409 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 650 | 0 | 1 | 0 | 8.476580 |
| ## 651 | 0 | 0 | 169 | 9.127067 |
| ## 652 | 0 | 1 | 100 | 8.730852 |
| ## 653 | 0 | 1 | 196 | 9.488048 |
| ## 654 | 0 | 1 | 121 | 10.172789 |
| ## 655 | 0 | 1 | 121 | 9.414994 |
| ## 658 | 0 | 0 | 0 | 9.679781 |
| ## 659 | 0 | 1 | 0 | 7.313887 |
| ## 660 | 0 | 1 | 121 | 8.823353 |
| ## 661 | 0 | 0 | 121 | 10.009243 |
| ## 662 | 0 | 0 | 64 | 9.571575 |
| ## 663 | 0 | 0 | 144 | 9.145375 |
| ## 665 | 0 | 0 | 25 | 8.609043 |
| ## 666 | 1 | 0 | 81 | 10.123466 |
| ## 668 | 0 | 0 | 289 | 9.677904 |
| ## 669 | 0 | 1 | 169 | 9.639587 |
| ## 670 | 0 | 0 | 144 | 9.592264 |
| ## 671 | 1 | 0 | 144 | 9.367430 |
| ## 672 | 0 | 1 | 196 | 9.255409 |
| ## 673 | 1 | 0 | 169 | 9.757941 |
| ## 674 | 0 | 0 | 9 | 9.945637 |
| ## 677 | 0 | 0 | 81 | 10.151948 |
| ## 678 | 0 | 1 | 64 | 9.820160 |
| ## 679 | 0 | 0 | 144 | 10.533455 |
| ## 680 | 0 | 0 | 49 | 10.115813 |
| ## 681 | 0 | 1 | 225 | 9.347577 |
| ## 682 | 0 | 0 | 121 | 9.475086 |
| ## 684 | 0 | 0 | 144 | 9.623178 |
| ## 685 | 0 | 1 | 121 | 9.147507 |
| ## 687 | 0 | 1 | 0 | 8.686261 |
| ## 688 | 0 | 0 | 64 | 8.594339 |
| ## 689 | 0 | 1 | 144 | 9.093919 |
| ## 690 | 0 | 1 | 144 | 7.313887 |
| ## 691 | 0 | 1 | 0 | 8.350194 |
| ## 692 | 1 | 0 | 225 | 9.328212 |
| ## 693 | 1 | 0 | 256 | 9.664659 |
| ## 696 | 0 | 1 | 0 | 7.313887 |
| ## 697 | 0 | 1 | 81 | 9.507552 |
| ## 698 | 0 | 1 | 196 | 9.767152 |
| ## 699 | 0 | 1 | 169 | 9.811427 |
| ## 700 | 0 | 0 | 196 | 9.653165 |
| ## 701 | 0 | 1 | 144 | 8.872207 |
| ## 703 | 1 | 0 | 81 | 9.942756 |
| ## 704 | 1 | 0 | 64 | 9.278092 |
| ## 706 | 0 | 0 | 81 | 10.187576 |
| ## 707 | 0 | 0 | 121 | 9.170664 |
| ## 708 | 1 | 0 | 64 | 9.352794 |
| ## 709 | 0 | 0 | 225 | 10.359044 |
| ## 710 | 0 | 0 | 100 | 9.478151 |
| ## 711 | 1 | 0 | 121 | 10.076642 |
| ## 712 | 0 | 1 | 121 | 9.998843 |
| ## 715 | 0 | 0 | 225 | 10.093322 |
| ## 716 | 1 | 0 | 169 | 9.280892 |
| ## 717 | 0 | 0 | 196 | 9.082621 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 718 | 0 | 1 | 169 | 8.486940 |
| ## 719 | 0 | 1 | 121 | 7.313887 |
| ## 720 | 0 | 1 | 0 | 8.517393 |
| ## 722 | 0 | 1 | 225 | 9.593628 |
| ## 723 | 0 | 1 | 144 | 9.400217 |
| ## 725 | 0 | 0 | 196 | 10.201405 |
| ## 726 | 1 | 0 | 0 | 8.839422 |
| ## 727 | 0 | 1 | 0 | 8.665786 |
| ## 728 | 0 | 1 | 225 | 9.685394 |
| ## 729 | 0 | 0 | 121 | 9.901536 |
| ## 730 | 0 | 0 | 196 | 9.258273 |
| ## 731 | 0 | 0 | 196 | 10.786862 |
| ## 734 | 0 | 0 | 196 | 9.439943 |
| ## 735 | 0 | 0 | 100 | 9.568784 |
| ## 736 | 0 | 0 | 100 | 8.143517 |
| ## 737 | 0 | 0 | 0 | 9.981420 |
| ## 738 | 0 | 0 | 64 | 9.995656 |
| ## 739 | 0 | 1 | 81 | 10.180020 |
| ## 741 | 0 | 1 | 100 | 8.630700 |
| ## 742 | 0 | 0 | 169 | 10.224520 |
| ## 744 | 0 | 0 | 100 | 10.070315 |
| ## 745 | 0 | 1 | 16 | 7.313887 |
| ## 746 | 0 | 0 | 0 | 8.765771 |
| ## 747 | 0 | 0 | 81 | 8.798002 |
| ## 748 | 1 | 0 | 121 | 8.862342 |
| ## 749 | 1 | 0 | 100 | 8.817446 |
| ## 750 | 0 | 0 | 0 | 7.313887 |
| ## 753 | 0 | 1 | 121 | 9.798183 |
| ## 754 | 0 | 1 | 196 | 9.806481 |
| ## 755 | 1 | 0 | 169 | 9.290168 |
| ## 756 | 0 | 1 | 0 | 8.698014 |
| ## 757 | 1 | 0 | 121 | 8.879194 |
| ## 758 | 0 | 1 | 144 | 8.108021 |
| ## 760 | 0 | 1 | 121 | 10.459698 |
| ## 761 | 0 | 1 | 169 | 9.306650 |
| ## 763 | 0 | 0 | 289 | 9.057306 |
| ## 764 | 0 | 1 | 64 | 9.579211 |
| ## 765 | 1 | 0 | 100 | 8.658866 |
| ## 766 | 0 | 0 | 36 | 8.385032 |
| ## 767 | 0 | 0 | 361 | 9.786448 |
| ## 768 | 0 | 1 | 144 | 8.991064 |
| ## 769 | 0 | 1 | 0 | 9.538996 |
| ## 772 | 0 | 1 | 64 | 8.924124 |
| ## 773 | 0 | 0 | 196 | 9.757363 |
| ## 774 | 0 | 1 | 121 | 9.908027 |
| ## 775 | 0 | 1 | 100 | 8.412055 |
| ## 776 | 1 | 0 | 100 | 9.176887 |
| ## 777 | 0 | 1 | 64 | 10.315299 |
| ## 779 | 0 | 0 | 100 | 10.069891 |
| ## 780 | 0 | 1 | 121 | 8.691315 |
| ## 782 | 0 | 1 | 100 | 9.874625 |
| ## 783 | 0 | 0 | 196 | 9.619200 |
| ## 784 | 0 | 0 | 100 | 8.810012 |
| ## 785 | 0 | 1 | 289 | 8.991064 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 786 | 0 | 1 | 169 | 9.696525 |
| ## 787 | 0 | 0 | 144 | 9.182044 |
| ## 788 | 0 | 1 | 121 | 10.211377 |
| ## 791 | 0 | 1 | 196 | 9.455715 |
| ## 792 | 0 | 0 | 169 | 10.026634 |
| ## 793 | 1 | 0 | 81 | 10.166275 |
| ## 794 | 0 | 1 | 0 | 9.609184 |
| ## 795 | 0 | 0 | 169 | 9.196343 |
| ## 796 | 1 | 0 | 0 | 8.064951 |
| ## 798 | 0 | 0 | 25 | 8.261268 |
| ## 799 | 1 | 0 | 225 | 9.287394 |
| ## 801 | 0 | 0 | 100 | 9.647369 |
| ## 802 | 0 | 1 | 9 | 9.339701 |
| ## 803 | 0 | 1 | 100 | 9.893993 |
| ## 804 | 0 | 1 | 0 | 9.924809 |
| ## 805 | 0 | 0 | 121 | 8.200014 |
| ## 806 | 1 | 0 | 169 | 9.337942 |
| ## 807 | 1 | 0 | 64 | 9.897520 |
| ## 810 | 0 | 0 | 196 | 9.163354 |
| ## 811 | 1 | 0 | 121 | 9.263976 |
| ## 812 | 0 | 1 | 169 | 9.388570 |
| ## 813 | 1 | 0 | 9 | 9.811975 |
| ## 814 | 0 | 1 | 225 | 9.119430 |
| ## 815 | 0 | 1 | 0 | 8.665786 |
| ## 817 | 0 | 1 | 121 | 9.468928 |
| ## 818 | 0 | 0 | 144 | 11.038769 |
| ## 820 | 0 | 1 | 169 | 9.430359 |
| ## 821 | 0 | 1 | 169 | 9.794286 |
| ## 822 | 0 | 0 | 196 | 8.908018 |
| ## 823 | 0 | 1 | 289 | 9.603125 |
| ## 824 | 1 | 0 | 81 | 9.155990 |
| ## 825 | 0 | 1 | 121 | 9.384378 |
| ## 826 | 0 | 1 | 121 | 10.189456 |
| ## 829 | 0 | 1 | 0 | 10.006089 |
| ## 830 | 1 | 0 | 25 | 9.607168 |
| ## 831 | 0 | 0 | 121 | 10.026192 |
| ## 832 | 0 | 0 | 64 | 8.537192 |
| ## 833 | 0 | 1 | 100 | 10.111761 |
| ## 834 | 0 | 0 | 64 | 10.087932 |
| ## 836 | 0 | 0 | 121 | 9.702044 |
| ## 837 | 0 | 1 | 0 | 8.630700 |
| ## 839 | 0 | 1 | 0 | 9.404343 |
| ## 840 | 0 | 0 | 25 | 9.438352 |
| ## 841 | 0 | 0 | 0 | 8.665786 |
| ## 842 | 0 | 0 | 169 | 9.216422 |
| ## 843 | 1 | 0 | 121 | 9.739261 |
| ## 844 | 1 | 0 | 0 | 8.790421 |
| ## 845 | 0 | 1 | 49 | 8.509363 |
| ## 848 | 0 | 0 | 0 | 9.456497 |
| ## 849 | 0 | 1 | 25 | 9.934550 |
| ## 850 | 0 | 0 | 100 | 8.345455 |
| ## 851 | 0 | 0 | 36 | 9.451009 |
| ## 852 | 0 | 1 | 0 | 8.665786 |
| ## 853 | 0 | 1 | 289 | 8.583168 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 855 | 0 | 1 | 169 | 9.572271 |
| ## 856 | 0 | 1 | 121 | 9.260178 |
| ## 858 | 0 | 1 | 144 | 9.809232 |
| ## 859 | 0 | 1 | 196 | 9.917440 |
| ## 860 | 0 | 0 | 169 | 9.660843 |
| ## 861 | 0 | 0 | 64 | 10.239996 |
| ## 862 | 0 | 1 | 196 | 9.136801 |
| ## 863 | 1 | 0 | 144 | 9.332646 |
| ## 864 | 0 | 1 | 100 | 8.648397 |
| ## 867 | 0 | 1 | 144 | 9.307558 |
| ## 868 | 0 | 1 | 64 | 9.653165 |
| ## 869 | 1 | 0 | 81 | 10.082094 |
| ## 870 | 0 | 0 | 196 | 8.281724 |
| ## 871 | 0 | 0 | 289 | 8.811503 |
| ## 872 | 0 | 0 | 144 | 9.601098 |
| ## 874 | 1 | 0 | 144 | 9.797071 |
| ## 875 | 0 | 1 | 144 | 10.058395 |
| ## 877 | 1 | 0 | 144 | 9.816349 |
| ## 878 | 0 | 0 | 100 | 9.671619 |
| ## 879 | 0 | 0 | 121 | 9.296610 |
| ## 880 | 0 | 0 | 144 | 9.308465 |
| ## 881 | 0 | 1 | 49 | 9.700208 |
| ## 882 | 0 | 0 | 144 | 9.921377 |
| ## 883 | 1 | 0 | 121 | 9.937454 |
| ## 886 | 0 | 0 | 144 | 9.974924 |
| ## 887 | 1 | 0 | 225 | 10.443221 |
| ## 888 | 1 | 0 | 64 | 9.709963 |
| ## 889 | 0 | 0 | 225 | 9.825580 |
| ## 890 | 0 | 1 | 256 | 8.998508 |
| ## 891 | 0 | 0 | 169 | 9.513477 |
| ## 893 | 0 | 1 | 0 | 9.415809 |
| ## 894 | 0 | 1 | 225 | 8.956866 |
| ## 896 | 0 | 1 | 196 | 9.689737 |
| ## 897 | 0 | 1 | 169 | 9.110631 |
| ## 898 | 1 | 0 | 0 | 9.781376 |
| ## 899 | 0 | 1 | 64 | 9.292013 |
| ## 900 | 0 | 1 | 144 | 9.739850 |
| ## 901 | 0 | 1 | 196 | 9.568085 |
| ## 902 | 0 | 1 | 81 | 8.764210 |
| ## 905 | 0 | 0 | 256 | 7.313887 |
| ## 906 | 0 | 0 | 196 | 9.206433 |
| ## 907 | 0 | 0 | 49 | 9.229260 |
| ## 908 | 0 | 1 | 169 | 8.888895 |
| ## 909 | 0 | 0 | 0 | 10.086684 |
| ## 910 | 1 | 0 | 64 | 9.711176 |
| ## 912 | 0 | 1 | 196 | 9.583351 |
| ## 913 | 0 | 1 | 225 | 9.953277 |
| ## 915 | 0 | 1 | 144 | 9.941313 |
| ## 916 | 0 | 1 | 81 | 9.901536 |
| ## 917 | 1 | 0 | 144 | 8.455531 |
| ## 918 | 0 | 0 | 0 | 8.323851 |
| ## 919 | 0 | 0 | 144 | 8.757941 |
| ## 920 | 1 | 0 | 196 | 8.849514 |
| ## 921 | 1 | 0 | 121 | 9.607841 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 924 | 1 | 0 | 0 | 9.134647 |
| ## 925 | 0 | 0 | 81 | 9.434364 |
| ## 926 | 0 | 1 | 121 | 9.806481 |
| ## 927 | 1 | 0 | 169 | 10.372272 |
| ## 928 | 1 | 0 | 49 | 9.813070 |
| ## 929 | 0 | 0 | 169 | 9.570180 |
| ## 931 | 0 | 1 | 121 | 9.299358 |
| ## 932 | 1 | 0 | 196 | 9.239996 |
| ## 934 | 0 | 0 | 225 | 9.372544 |
| ## 935 | 0 | 0 | 0 | 8.665786 |
| ## 936 | 0 | 0 | 169 | 8.767329 |
| ## 937 | 0 | 0 | 169 | 8.016648 |
| ## 938 | 0 | 1 | 121 | 9.324651 |
| ## 939 | 0 | 1 | 289 | 9.615205 |
| ## 940 | 0 | 0 | 169 | 8.943898 |
| ## 943 | 0 | 1 | 225 | 7.800163 |
| ## 944 | 0 | 1 | 0 | 8.732466 |
| ## 945 | 0 | 1 | 121 | 9.253496 |
| ## 946 | 0 | 1 | 100 | 9.019301 |
| ## 947 | 0 | 1 | 100 | 7.313887 |
| ## 948 | 0 | 0 | 144 | 9.042040 |
| ## 950 | 0 | 0 | 0 | 9.392745 |
| ## 951 | 1 | 0 | 0 | 8.366603 |
| ## 953 | 1 | 0 | 100 | 10.152728 |
| ## 954 | 0 | 0 | 100 | 9.757941 |
| ## 955 | 1 | 0 | 81 | 9.903037 |
| ## 956 | 1 | 0 | 169 | 9.783634 |
| ## 957 | 0 | 1 | 0 | 9.391912 |
| ## 958 | 1 | 0 | 169 | 9.960860 |
| ## 959 | 0 | 1 | 64 | 7.890208 |
| ## 962 | 0 | 1 | 169 | 9.454149 |
| ## 963 | 1 | 0 | 81 | 8.853808 |
| ## 964 | 0 | 1 | 100 | 9.163354 |
| ## 965 | 0 | 1 | 169 | 9.775711 |
| ## 966 | 1 | 0 | 144 | 9.398561 |
| ## 967 | 1 | 0 | 64 | 10.147649 |
| ## 969 | 0 | 0 | 121 | 9.908525 |
| ## 970 | 1 | 0 | 100 | 10.049361 |
| ## 972 | 1 | 0 | 121 | 9.379323 |
| ## 973 | 0 | 1 | 36 | 10.374772 |
| ## 974 | 0 | 1 | 64 | 9.639587 |
| ## 975 | 0 | 0 | 169 | 7.313887 |
| ## 976 | 0 | 0 | 0 | 9.219399 |
| ## 977 | 0 | 0 | 225 | 9.147507 |
| ## 978 | 0 | 0 | 0 | 9.299358 |
| ## 981 | 0 | 1 | 81 | 10.208064 |
| ## 982 | 0 | 1 | 100 | 8.556606 |
| ## 983 | 0 | 0 | 144 | 9.802617 |
| ## 984 | 0 | 0 | 169 | 9.600421 |
| ## 985 | 0 | 0 | 100 | 9.679156 |
| ## 986 | 0 | 0 | 169 | 9.597709 |
| ## 988 | 0 | 0 | 0 | 9.938420 |
| ## 989 | 0 | 0 | 81 | 9.794844 |
| ## 991 | 0 | 0 | 196 | 9.767152 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 992 | 0 | 0 | 169 | 9.208439 |
| ## 993 | 0 | 1 | 256 | 9.867912 |
| ## 994 | 1 | 0 | 100 | 9.250618 |
| ## 995 | 1 | 0 | 121 | 8.556606 |
| ## 996 | 0 | 0 | 0 | 8.556606 |
| ## 997 | 0 | 0 | 81 | 9.455715 |
| ## 1000 | 1 | 0 | 121 | 9.637632 |
| ## 1001 | 0 | 1 | 81 | 9.481969 |
| ## 1002 | 0 | 1 | 0 | 9.020511 |
| ## 1003 | 0 | 1 | 0 | 8.648397 |
| ## 1004 | 1 | 0 | 81 | 9.172742 |
| ## 1005 | 0 | 1 | 36 | 9.552582 |
| ## 1007 | 1 | 0 | 169 | 9.322865 |
| ## 1008 | 0 | 1 | 169 | 8.881975 |
| ## 1010 | 1 | 0 | 196 | 8.240385 |
| ## 1011 | 1 | 0 | 36 | 10.266080 |
| ## 1012 | 0 | 0 | 36 | 8.895767 |
| ## 1013 | 0 | 1 | 0 | 7.313887 |
| ## 1014 | 0 | 0 | 144 | 8.687948 |
| ## 1015 | 0 | 0 | 81 | 9.827740 |
| ## 1016 | 0 | 1 | 0 | 7.313887 |
| ## 1019 | 0 | 0 | 0 | 10.137808 |
| ## 1020 | 1 | 0 | 0 | 9.412546 |
| ## 1021 | 0 | 1 | 144 | 8.779711 |
| ## 1022 | 1 | 0 | 100 | 10.156617 |
| ## 1023 | 1 | 0 | 0 | 8.594339 |
| ## 1024 | 1 | 0 | 36 | 10.196568 |
| ## 1026 | 1 | 0 | 144 | 9.439943 |
| ## 1027 | 0 | 1 | 100 | 9.285541 |
| ## 1029 | 0 | 1 | 144 | 8.951699 |
| ## 1030 | 0 | 0 | 64 | 9.020511 |
| ## 1031 | 1 | 0 | 144 | 8.812992 |
| ## 1032 | 1 | 0 | 100 | 8.699681 |
| ## 1033 | 0 | 0 | 36 | 9.203416 |
| ## 1034 | 0 | 1 | 81 | 9.856972 |
| ## 1035 | 0 | 0 | 49 | 8.366603 |
| ## 1038 | 0 | 1 | 144 | 8.296796 |
| ## 1039 | 1 | 0 | 100 | 8.655389 |
| ## 1040 | 1 | 0 | 144 | 9.372544 |
| ## 1041 | 0 | 1 | 100 | 9.136801 |
| ## 1042 | 0 | 0 | 121 | 8.979794 |
| ## 1043 | 0 | 0 | 0 | 9.255409 |
| ## 1045 | 0 | 1 | 49 | 8.732466 |
| ## 1046 | 0 | 0 | 144 | 9.133567 |
| ## 1048 | 0 | 0 | 100 | 10.551664 |
| ## 1049 | 0 | 0 | 144 | 9.952801 |
| ## 1050 | 0 | 0 | 225 | 9.354527 |
| ## 1051 | 1 | 0 | 100 | 10.293534 |
| ## 1052 | 1 | 0 | 100 | 8.644883 |
| ## 1053 | 0 | 1 | 0 | 9.012011 |
| ## 1054 | 1 | 0 | 225 | 9.592946 |
| ## 1057 | 0 | 1 | 64 | 8.810012 |
| ## 1058 | 1 | 0 | 49 | 10.269553 |
| ## 1059 | 1 | 0 | 256 | 9.986955 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1060 | 0 | 0 | 64 | 10.353958 |
| ## 1061 | 1 | 0 | 169 | 9.244838 |
| ## 1062 | 0 | 0 | 144 | 9.042040 |
| ## 1064 | 0 | 0 | 144 | 8.969669 |
| ## 1065 | 1 | 0 | 0 | 9.565284 |
| ## 1067 | 1 | 0 | 169 | 10.231748 |
| ## 1068 | 0 | 1 | 144 | 9.992460 |
| ## 1069 | 1 | 0 | 196 | 9.876168 |
| ## 1070 | 1 | 0 | 81 | 9.276222 |
| ## 1071 | 0 | 0 | 100 | 8.628913 |
| ## 1072 | 0 | 0 | 100 | 8.764210 |
| ## 1073 | 0 | 0 | 121 | 9.487290 |
| ## 1076 | 0 | 1 | 100 | 9.159152 |
| ## 1077 | 0 | 0 | 100 | 8.537192 |
| ## 1078 | 0 | 1 | 169 | 10.050657 |
| ## 1079 | 0 | 0 | 100 | 10.149996 |
| ## 1080 | 0 | 1 | 0 | 9.752141 |
| ## 1081 | 0 | 1 | 196 | 8.476580 |
| ## 1083 | 0 | 1 | 81 | 10.138994 |
| ## 1084 | 1 | 0 | 100 | 9.228279 |
| ## 1086 | 0 | 1 | 0 | 9.454149 |
| ## 1087 | 0 | 1 | 64 | 9.265870 |
| ## 1088 | 0 | 0 | 169 | 9.647369 |
| ## 1089 | 1 | 0 | 100 | 9.880270 |
| ## 1090 | 1 | 0 | 100 | 9.529594 |
| ## 1091 | 1 | 0 | 100 | 9.032529 |
| ## 1092 | 0 | 0 | 121 | 10.097449 |
| ## 1095 | 0 | 0 | 169 | 7.804251 |
| ## 1096 | 0 | 0 | 100 | 10.186823 |
| ## 1097 | 0 | 0 | 225 | 10.113384 |
| ## 1098 | 0 | 0 | 169 | 10.470816 |
| ## 1099 | 0 | 0 | 64 | 9.742203 |
| ## 1100 | 1 | 0 | 289 | 9.838469 |
| ## 1102 | 0 | 0 | 81 | 9.756784 |
| ## 1103 | 0 | 0 | 225 | 9.702656 |
| ## 1105 | 0 | 1 | 144 | 9.127067 |
| ## 1106 | 0 | 1 | 196 | 9.038484 |
| ## 1107 | 0 | 0 | 0 | 10.067772 |
| ## 1108 | 0 | 0 | 81 | 10.136225 |
| ## 1109 | 1 | 0 | 16 | 9.043223 |
| ## 1110 | 0 | 0 | 100 | 8.779711 |
| ## 1111 | 1 | 0 | 100 | 9.086024 |
| ## 1114 | 0 | 1 | 121 | 9.079206 |
| ## 1115 | 0 | 1 | 144 | 9.063116 |
| ## 1116 | 0 | 0 | 144 | 10.477879 |
| ## 1117 | 1 | 0 | 64 | 7.313887 |
| ## 1118 | 0 | 0 | 121 | 9.826120 |
| ## 1119 | 0 | 1 | 81 | 8.623533 |
| ## 1121 | 0 | 1 | 81 | 9.451009 |
| ## 1122 | 1 | 0 | 81 | 8.614501 |
| ## 1124 | 0 | 0 | 81 | 8.630700 |
| ## 1125 | 0 | 1 | 100 | 9.296610 |
| ## 1126 | 0 | 1 | 144 | 9.410911 |
| ## 1127 | 0 | 1 | 121 | 9.206433 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1128 | 0 | 0 | 64 | 9.774005 |
| ## 1129 | 0 | 0 | 100 | 9.460398 |
| ## 1130 | 0 | 0 | 81 | 10.062668 |
| ## 1133 | 0 | 1 | 81 | 8.548886 |
| ## 1134 | 0 | 1 | 4 | 9.374243 |
| ## 1135 | 0 | 1 | 0 | 9.322865 |
| ## 1136 | 0 | 0 | 144 | 9.679781 |
| ## 1137 | 1 | 0 | 144 | 10.386870 |
| ## 1138 | 1 | 0 | 64 | 8.764210 |
| ## 1140 | 0 | 0 | 121 | 8.794976 |
| ## 1141 | 0 | 1 | 0 | 9.145375 |
| ## 1143 | 1 | 0 | 81 | 9.976320 |
| ## 1144 | 0 | 1 | 36 | 9.789254 |
| ## 1145 | 0 | 0 | 144 | 9.434364 |
| ## 1146 | 0 | 0 | 144 | 10.121458 |
| ## 1147 | 0 | 1 | 81 | 10.009243 |
| ## 1148 | 0 | 1 | 100 | 9.705098 |
| ## 1149 | 1 | 0 | 169 | 9.708142 |
| ## 1152 | 0 | 1 | 100 | 9.523763 |
| ## 1153 | 0 | 1 | 196 | 7.313887 |
| ## 1154 | 0 | 0 | 169 | 7.313887 |
| ## 1155 | 1 | 0 | 169 | 8.771990 |
| ## 1156 | 0 | 0 | 0 | 8.732466 |
| ## 1157 | 0 | 1 | 121 | 9.431161 |
| ## 1159 | 0 | 0 | 0 | 8.950403 |
| ## 1160 | 0 | 1 | 0 | 9.165448 |
| ## 1162 | 0 | 0 | 169 | 9.196343 |
| ## 1163 | 0 | 1 | 144 | 9.527411 |
| ## 1164 | 0 | 0 | 49 | 9.704488 |
| ## 1165 | 1 | 0 | 144 | 10.265732 |
| ## 1166 | 0 | 1 | 169 | 9.633056 |
| ## 1167 | 0 | 1 | 100 | 8.625330 |
| ## 1168 | 1 | 0 | 49 | 10.132255 |
| ## 1171 | 1 | 0 | 121 | 10.112978 |
| ## 1172 | 1 | 0 | 196 | 8.366603 |
| ## 1173 | 0 | 0 | 81 | 10.186823 |
| ## 1174 | 0 | 1 | 225 | 9.827200 |
| ## 1175 | 0 | 0 | 0 | 8.556606 |
| ## 1176 | 0 | 0 | 169 | 10.331725 |
| ## 1178 | 0 | 0 | 196 | 9.783634 |
| ## 1179 | 1 | 0 | 100 | 9.419060 |
| ## 1181 | 0 | 0 | 25 | 9.853825 |
| ## 1182 | 1 | 0 | 100 | 10.451927 |
| ## 1183 | 0 | 1 | 121 | 10.033682 |
| ## 1184 | 0 | 1 | 144 | 9.980495 |
| ## 1185 | 1 | 0 | 100 | 9.940350 |
| ## 1186 | 0 | 0 | 100 | 9.594309 |
| ## 1187 | 0 | 0 | 169 | 8.917445 |
| ## 1190 | 0 | 1 | 0 | 9.300272 |
| ## 1191 | 0 | 1 | 121 | 9.060796 |
| ## 1192 | 0 | 1 | 121 | 9.157045 |
| ## 1193 | 1 | 0 | 100 | 9.909519 |
| ## 1194 | 0 | 0 | 81 | 8.648397 |
| ## 1195 | 0 | 0 | 144 | 9.490318 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1197 | 0 | 1 | 169 | 9.348449 |
| ## 1198 | 0 | 0 | 0 | 7.438972 |
| ## 1200 | 1 | 0 | 81 | 10.004283 |
| ## 1201 | 0 | 0 | 169 | 8.706325 |
| ## 1202 | 0 | 0 | 225 | 9.190240 |
| ## 1203 | 0 | 0 | 121 | 10.176982 |
| ## 1204 | 0 | 1 | 81 | 10.253123 |
| ## 1205 | 0 | 0 | 36 | 9.550449 |
| ## 1206 | 0 | 1 | 49 | 9.357984 |
| ## 1209 | 0 | 1 | 64 | 8.738896 |
| ## 1210 | 0 | 1 | 0 | 8.867991 |
| ## 1211 | 0 | 1 | 0 | 7.313887 |
| ## 1212 | 0 | 0 | 100 | 9.806481 |
| ## 1213 | 1 | 0 | 81 | 9.109525 |
| ## 1214 | 0 | 0 | 49 | 8.981053 |
| ## 1216 | 1 | 0 | 0 | 9.004668 |
| ## 1217 | 0 | 0 | 100 | 10.223068 |
| ## 1219 | 0 | 1 | 196 | 9.214432 |
| ## 1220 | 0 | 0 | 169 | 9.052633 |
| ## 1221 | 0 | 1 | 144 | 9.127067 |
| ## 1222 | 0 | 1 | 361 | 9.022926 |
| ## 1223 | 1 | 0 | 144 | 9.419872 |
| ## 1224 | 1 | 0 | 0 | 8.881975 |
| ## 1225 | 0 | 1 | 144 | 8.434029 |
| ## 1228 | 1 | 0 | 144 | 7.983099 |
| ## 1229 | 1 | 0 | 81 | 9.830971 |
| ## 1230 | 0 | 1 | 121 | 8.517393 |
| ## 1231 | 1 | 0 | 121 | 10.098273 |
| ## 1232 | 0 | 0 | 196 | 10.675469 |
| ## 1233 | 1 | 0 | 144 | 9.413363 |
| ## 1235 | 0 | 1 | 169 | 9.500095 |
| ## 1236 | 0 | 1 | 196 | 9.067739 |
| ## 1238 | 0 | 1 | 225 | 9.098403 |
| ## 1239 | 0 | 0 | 169 | 9.840068 |
| ## 1240 | 0 | 0 | 289 | 9.932124 |
| ## 1241 | 0 | 0 | 169 | 10.066924 |
| ## 1242 | 1 | 0 | 121 | 8.556606 |
| ## 1243 | 1 | 0 | 0 | 9.217415 |
| ## 1244 | 0 | 1 | 121 | 9.391912 |
| ## 1247 | 0 | 1 | 196 | 9.639587 |
| ## 1248 | 0 | 0 | 121 | 8.371242 |
| ## 1249 | 0 | 1 | 169 | 8.853808 |
| ## 1250 | 0 | 0 | 100 | 8.630700 |
| ## 1251 | 0 | 1 | 64 | 9.056140 |
| ## 1252 | 0 | 0 | 0 | 9.655731 |
| ## 1254 | 1 | 0 | 121 | 9.528139 |
| ## 1255 | 1 | 0 | 100 | 8.934719 |
| ## 1257 | 0 | 1 | 169 | 9.408453 |
| ## 1258 | 0 | 1 | 64 | 9.178953 |
| ## 1259 | 0 | 0 | 100 | 9.859065 |
| ## 1260 | 1 | 0 | 196 | 9.461177 |
| ## 1261 | 0 | 1 | 121 | 8.824825 |
| ## 1262 | 0 | 1 | 0 | 8.764210 |
| ## 1263 | 1 | 0 | 121 | 7.313887 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1266 | 1 | 0 | 0 | 8.918784 |
| ## 1267 | 1 | 0 | 0 | 7.313887 |
| ## 1268 | 1 | 0 | 49 | 9.617870 |
| ## 1269 | 1 | 0 | 0 | 8.699681 |
| ## 1270 | 0 | 1 | 196 | 8.434029 |
| ## 1271 | 1 | 0 | 49 | 9.497097 |
| ## 1273 | 0 | 0 | 0 | 9.121618 |
| ## 1274 | 0 | 0 | 49 | 8.268988 |
| ## 1276 | 0 | 0 | 196 | 9.533221 |
| ## 1277 | 0 | 0 | 9 | 8.699681 |
| ## 1278 | 1 | 0 | 196 | 9.374243 |
| ## 1279 | 0 | 1 | 0 | 8.556606 |
| ## 1280 | 0 | 0 | 169 | 10.315630 |
| ## 1281 | 0 | 0 | 196 | 9.282754 |
| ## 1282 | 0 | 1 | 0 | 8.906664 |
| ## 1285 | 0 | 0 | 144 | 9.781376 |
| ## 1286 | 0 | 1 | 49 | 8.716208 |
| ## 1287 | 0 | 1 | 0 | 9.802064 |
| ## 1288 | 0 | 1 | 0 | 9.483492 |
| ## 1289 | 0 | 1 | 121 | 9.291091 |
| ## 1290 | 0 | 1 | 196 | 9.005896 |
| ## 1292 | 1 | 0 | 0 | 9.609184 |
| ## 1293 | 1 | 0 | 0 | 9.084891 |
| ## 1295 | 1 | 0 | 121 | 9.841133 |
| ## 1296 | 1 | 0 | 196 | 10.445259 |
| ## 1297 | 0 | 1 | 196 | 9.033723 |
| ## 1298 | 0 | 1 | 100 | 9.344959 |
| ## 1299 | 0 | 0 | 144 | 8.936035 |
| ## 1300 | 0 | 0 | 289 | 8.229778 |
| ## 1301 | 0 | 0 | 196 | 9.537556 |
| ## 1304 | 1 | 0 | 0 | 8.250881 |
| ## 1305 | 0 | 1 | 144 | 8.699681 |
| ## 1306 | 1 | 0 | 144 | 10.705287 |
| ## 1307 | 0 | 0 | 196 | 9.515690 |
| ## 1308 | 0 | 1 | 81 | 9.254453 |
| ## 1309 | 0 | 1 | 0 | 10.187952 |
| ## 1311 | 1 | 0 | 36 | 9.404343 |
| ## 1312 | 0 | 1 | 100 | 9.576441 |
| ## 1314 | 0 | 0 | 121 | 9.007122 |
| ## 1315 | 0 | 1 | 0 | 9.620528 |
| ## 1316 | 1 | 0 | 144 | 9.357121 |
| ## 1317 | 0 | 1 | 196 | 9.351927 |
| ## 1318 | 0 | 0 | 0 | 9.071193 |
| ## 1319 | 1 | 0 | 121 | 9.216422 |
| ## 1320 | 0 | 0 | 225 | 8.699681 |
| ## 1323 | 0 | 0 | 121 | 8.594339 |
| ## 1324 | 1 | 0 | 169 | 9.703267 |
| ## 1325 | 0 | 1 | 81 | 10.305647 |
| ## 1326 | 1 | 0 | 144 | 8.883363 |
| ## 1327 | 0 | 1 | 144 | 8.682877 |
| ## 1328 | 1 | 0 | 49 | 10.182671 |
| ## 1330 | 0 | 1 | 196 | 9.242904 |
| ## 1331 | 0 | 1 | 225 | 9.783070 |
| ## 1333 | 0 | 1 | 81 | 9.619200 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1334 | 0 | 1 | 100 | 8.197263 |
| ## 1335 | 0 | 0 | 0 | 7.919720 |
| ## 1336 | 0 | 1 | 169 | 9.406811 |
| ## 1337 | 1 | 0 | 0 | 7.313887 |
| ## 1338 | 1 | 0 | 100 | 9.970258 |
| ## 1339 | 0 | 0 | 169 | 10.166659 |
| ## 1342 | 1 | 0 | 121 | 9.640888 |
| ## 1343 | 1 | 0 | 49 | 9.079206 |
| ## 1344 | 1 | 0 | 100 | 10.649488 |
| ## 1345 | 0 | 0 | 81 | 10.057538 |
| ## 1346 | 0 | 1 | 100 | 9.295692 |
| ## 1347 | 1 | 0 | 81 | 9.459619 |
| ## 1349 | 0 | 1 | 64 | 9.052633 |
| ## 1350 | 1 | 0 | 169 | 9.828818 |
| ## 1352 | 0 | 0 | 81 | 9.150697 |
| ## 1353 | 0 | 1 | 144 | 10.083765 |
| ## 1354 | 1 | 0 | 196 | 9.814711 |
| ## 1355 | 0 | 1 | 0 | 8.922792 |
| ## 1356 | 1 | 0 | 256 | 7.313887 |
| ## 1357 | 0 | 1 | 225 | 9.186150 |
| ## 1358 | 0 | 1 | 100 | 9.125980 |
| ## 1361 | 0 | 0 | 121 | 9.813070 |
| ## 1362 | 0 | 1 | 225 | 10.130264 |
| ## 1363 | 0 | 0 | 0 | 9.185125 |
| ## 1364 | 0 | 0 | 64 | 9.543306 |
| ## 1365 | 1 | 0 | 225 | 9.324651 |
| ## 1366 | 1 | 0 | 100 | 8.117014 |
| ## 1368 | 0 | 0 | 256 | 10.697633 |
| ## 1369 | 0 | 0 | 144 | 8.722743 |
| ## 1371 | 1 | 0 | 81 | 9.872048 |
| ## 1372 | 0 | 0 | 25 | 9.804275 |
| ## 1373 | 1 | 0 | 144 | 9.772296 |
| ## 1374 | 0 | 1 | 0 | 10.018199 |
| ## 1375 | 0 | 1 | 121 | 9.846970 |
| ## 1376 | 0 | 0 | 169 | 9.884356 |
| ## 1377 | 0 | 0 | 196 | 8.958154 |
| ## 1380 | 0 | 0 | 169 | 9.536113 |
| ## 1381 | 1 | 0 | 121 | 9.227296 |
| ## 1382 | 1 | 0 | 144 | 9.729789 |
| ## 1383 | 0 | 0 | 169 | 9.875654 |
| ## 1384 | 0 | 1 | 256 | 9.474319 |
| ## 1385 | 0 | 1 | 144 | 9.551160 |
| ## 1387 | 0 | 0 | 81 | 9.841133 |
| ## 1388 | 1 | 0 | 64 | 10.155452 |
| ## 1390 | 0 | 1 | 100 | 9.864799 |
| ## 1391 | 0 | 0 | 144 | 9.648660 |
| ## 1392 | 0 | 0 | 144 | 9.409273 |
| ## 1393 | 0 | 0 | 36 | 9.728598 |
| ## 1394 | 1 | 0 | 169 | 10.189831 |
| ## 1395 | 0 | 0 | 169 | 9.542589 |
| ## 1396 | 0 | 0 | 169 | 9.983730 |
| ## 1399 | 0 | 1 | 0 | 7.313887 |
| ## 1400 | 1 | 0 | 121 | 9.469700 |
| ## 1401 | 1 | 0 | 196 | 9.561772 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1402 | 0 | 1 | 144 | 10.694918 |
| ## 1403 | 0 | 0 | 81 | 10.059679 |
| ## 1404 | 0 | 0 | 196 | 9.640888 |
| ## 1406 | 0 | 1 | 144 | 9.182044 |
| ## 1407 | 1 | 0 | 196 | 9.513477 |
| ## 1409 | 0 | 0 | 144 | 7.635787 |
| ## 1410 | 0 | 0 | 225 | 9.421492 |
| ## 1411 | 1 | 0 | 36 | 8.748464 |
| ## 1412 | 1 | 0 | 169 | 8.210940 |
| ## 1413 | 0 | 0 | 100 | 9.511259 |
| ## 1414 | 0 | 0 | 100 | 10.001567 |
| ## 1415 | 1 | 0 | 144 | 10.112978 |
| ## 1418 | 0 | 0 | 169 | 8.699681 |
| ## 1419 | 0 | 1 | 121 | 8.770439 |
| ## 1420 | 0 | 0 | 121 | 8.794976 |
| ## 1421 | 0 | 0 | 64 | 9.434364 |
| ## 1422 | 0 | 0 | 100 | 8.959440 |
| ## 1423 | 0 | 0 | 81 | 9.364862 |
| ## 1425 | 0 | 1 | 144 | 9.988793 |
| ## 1426 | 0 | 1 | 0 | 9.640238 |
| ## 1428 | 0 | 0 | 169 | 9.225328 |
| ## 1429 | 0 | 0 | 81 | 9.010791 |
| ## 1430 | 1 | 0 | 100 | 10.035875 |
| ## 1431 | 1 | 0 | 121 | 8.748464 |
| ## 1432 | 0 | 0 | 144 | 10.419331 |
| ## 1433 | 0 | 1 | 144 | 10.086267 |
| ## 1434 | 0 | 1 | 0 | 8.867991 |
| ## 1437 | 0 | 0 | 196 | 9.303011 |
| ## 1438 | 0 | 1 | 0 | 10.599157 |
| ## 1439 | 0 | 1 | 81 | 9.910513 |
| ## 1440 | 1 | 0 | 100 | 8.856661 |
| ## 1441 | 0 | 0 | 144 | 9.549024 |
| ## 1442 | 0 | 0 | 169 | 8.651899 |
| ## 1444 | 0 | 1 | 196 | 8.979794 |
| ## 1445 | 0 | 0 | 289 | 9.887409 |
| ## 1447 | 0 | 0 | 144 | 10.006089 |
| ## 1448 | 0 | 1 | 100 | 9.173780 |
| ## 1449 | 0 | 1 | 256 | 8.612685 |
| ## 1450 | 0 | 0 | 196 | 9.969322 |
| ## 1451 | 1 | 0 | 121 | 9.198369 |
| ## 1452 | 1 | 0 | 196 | 9.836332 |
| ## 1453 | 0 | 1 | 100 | 8.839422 |
| ## 1456 | 0 | 1 | 100 | 10.019536 |
| ## 1457 | 0 | 1 | 169 | 10.017753 |
| ## 1458 | 0 | 1 | 121 | 10.058823 |
| ## 1459 | 0 | 1 | 0 | 9.541872 |
| ## 1460 | 0 | 1 | 100 | 9.144307 |
| ## 1461 | 1 | 0 | 81 | 9.757363 |
| ## 1463 | 0 | 0 | 0 | 9.314790 |
| ## 1464 | 0 | 0 | 121 | 8.748464 |
| ## 1466 | 1 | 0 | 169 | 9.283684 |
| ## 1467 | 0 | 1 | 225 | 9.423110 |
| ## 1468 | 0 | 1 | 144 | 9.723822 |
| ## 1469 | 0 | 1 | 100 | 9.043223 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1470 | 0 | 0 | 196 | 8.936035 |
| ## 1471 | 1 | 0 | 289 | 9.792053 |
| ## 1472 | 0 | 0 | 144 | 8.289288 |
| ## 1475 | 0 | 0 | 169 | 10.247113 |
| ## 1476 | 0 | 0 | 81 | 8.665786 |
| ## 1477 | 1 | 0 | 144 | 10.040245 |
| ## 1478 | 0 | 1 | 36 | 9.895506 |
| ## 1479 | 0 | 0 | 81 | 9.703877 |
| ## 1480 | 1 | 0 | 144 | 10.321902 |
| ## 1482 | 0 | 0 | 81 | 9.617205 |
| ## 1483 | 0 | 1 | 121 | 9.955653 |
| ## 1485 | 0 | 1 | 169 | 9.128154 |
| ## 1486 | 0 | 0 | 16 | 10.018645 |
| ## 1487 | 1 | 0 | 144 | 10.062668 |
| ## 1488 | 0 | 0 | 196 | 10.200662 |
| ## 1489 | 0 | 0 | 256 | 9.251578 |
| ## 1490 | 0 | 1 | 169 | 8.998508 |
| ## 1491 | 0 | 1 | 169 | 9.872564 |
| ## 1494 | 1 | 0 | 225 | 10.122663 |
| ## 1495 | 0 | 0 | 121 | 8.748464 |
| ## 1496 | 0 | 1 | 144 | 9.570180 |
| ## 1497 | 1 | 0 | 64 | 8.952993 |
| ## 1498 | 0 | 0 | 81 | 9.934550 |
| ## 1499 | 0 | 0 | 36 | 9.262079 |
| ## 1501 | 0 | 0 | 196 | 9.294773 |
| ## 1502 | 1 | 0 | 100 | 9.517163 |
| ## 1504 | 1 | 0 | 49 | 9.224342 |
| ## 1505 | 0 | 0 | 196 | 8.648397 |
| ## 1506 | 0 | 1 | 121 | 9.032529 |
| ## 1507 | 0 | 1 | 0 | 8.682877 |
| ## 1508 | 0 | 0 | 64 | 8.556606 |
| ## 1509 | 0 | 0 | 256 | 9.147507 |
| ## 1510 | 0 | 0 | 121 | 9.929204 |
| ## 1513 | 0 | 1 | 144 | 8.476580 |
| ## 1514 | 0 | 1 | 121 | 9.354527 |
| ## 1515 | 0 | 0 | 81 | 9.790375 |
| ## 1516 | 0 | 1 | 169 | 10.057967 |
| ## 1517 | 0 | 1 | 0 | 9.884356 |
| ## 1518 | 0 | 1 | 144 | 10.355868 |
| ## 1520 | 1 | 0 | 81 | 9.073489 |
| ## 1521 | 0 | 1 | 169 | 8.997271 |
| ## 1523 | 1 | 0 | 81 | 7.937732 |
| ## 1524 | 0 | 1 | 144 | 9.615205 |
| ## 1525 | 0 | 0 | 49 | 8.732466 |
| ## 1526 | 0 | 0 | 169 | 9.167537 |
| ## 1527 | 0 | 1 | 169 | 9.668461 |
| ## 1528 | 0 | 0 | 196 | 9.665928 |
| ## 1529 | 0 | 1 | 0 | 8.575651 |
| ## 1532 | 1 | 0 | 49 | 9.928717 |
| ## 1533 | 0 | 1 | 169 | 9.079206 |
| ## 1534 | 0 | 0 | 144 | 8.852379 |
| ## 1535 | 0 | 1 | 225 | 8.958154 |
| ## 1536 | 0 | 0 | 100 | 9.450223 |
| ## 1537 | 0 | 1 | 81 | 10.113789 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1539 | 0 | 1 | 100 | 10.041117 |
| ## 1540 | 0 | 1 | 81 | 9.037296 |
| ## 1542 | 0 | 1 | 81 | 9.615205 |
| ## 1543 | 0 | 1 | 0 | 8.497195 |
| ## 1544 | 1 | 0 | 81 | 9.773436 |
| ## 1545 | 0 | 0 | 169 | 9.003439 |
| ## 1546 | 0 | 0 | 49 | 9.842729 |
| ## 1547 | 1 | 0 | 81 | 8.716208 |
| ## 1548 | 0 | 1 | 36 | 9.402695 |
| ## 1551 | 1 | 0 | 100 | 9.842729 |
| ## 1552 | 1 | 0 | 169 | 10.065649 |
| ## 1553 | 1 | 0 | 81 | 10.427062 |
| ## 1554 | 0 | 0 | 81 | 9.100637 |
| ## 1555 | 0 | 0 | 196 | 9.531046 |
| ## 1556 | 0 | 1 | 121 | 9.503085 |
| ## 1558 | 1 | 0 | 196 | 9.089415 |
| ## 1559 | 0 | 0 | 100 | 10.341775 |
| ## 1561 | 1 | 0 | 64 | 9.569482 |
| ## 1562 | 0 | 1 | 25 | 8.240385 |
| ## 1563 | 0 | 1 | 121 | 8.612685 |
| ## 1564 | 0 | 0 | 144 | 8.556606 |
| ## 1565 | 1 | 0 | 196 | 9.694062 |
| ## 1566 | 0 | 1 | 0 | 9.369990 |
| ## 1567 | 0 | 0 | 144 | 10.550617 |
| ## 1570 | 0 | 0 | 196 | 9.263976 |
| ## 1571 | 0 | 0 | 100 | 9.302099 |
| ## 1572 | 0 | 0 | 196 | 9.930178 |
| ## 1573 | 1 | 0 | 100 | 9.320181 |
| ## 1574 | 0 | 1 | 121 | 9.243872 |
| ## 1575 | 0 | 0 | 144 | 9.853825 |
| ## 1577 | 0 | 1 | 0 | 10.367567 |
| ## 1578 | 0 | 1 | 169 | 8.945202 |
| ## 1580 | 0 | 1 | 100 | 9.784197 |
| ## 1581 | 0 | 0 | 0 | 8.748464 |
| ## 1582 | 1 | 0 | 225 | 8.998508 |
| ## 1583 | 0 | 1 | 121 | 9.195328 |
| ## 1584 | 0 | 1 | 144 | 9.292934 |
| ## 1585 | 1 | 0 | 121 | 10.163965 |
| ## 1586 | 0 | 0 | 144 | 9.633711 |
| ## 1589 | 0 | 1 | 144 | 9.864799 |
| ## 1590 | 0 | 0 | 169 | 10.167427 |
| ## 1591 | 0 | 0 | 121 | 10.246758 |
| ## 1592 | 0 | 1 | 225 | 8.497195 |
| ## 1593 | 1 | 0 | 121 | 9.288319 |
| ## 1594 | 0 | 0 | 64 | 10.084600 |
| ## 1596 | 0 | 0 | 169 | 9.306650 |
| ## 1597 | 0 | 1 | 100 | 9.019301 |
| ## 1599 | 0 | 1 | 49 | 9.932124 |
| ## 1600 | 0 | 1 | 0 | 9.000976 |
| ## 1601 | 0 | 0 | 169 | 9.112838 |
| ## 1602 | 0 | 0 | 121 | 8.773539 |
| ## 1603 | 0 | 1 | 81 | 10.460844 |
| ## 1604 | 0 | 1 | 121 | 9.752723 |
| ## 1605 | 1 | 0 | 81 | 10.186069 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1608 | 0 | 1 | 144 | 9.020511 |
| ## 1609 | 0 | 1 | 144 | 9.858542 |
| ## 1610 | 0 | 0 | 144 | 9.594990 |
| ## 1611 | 0 | 0 | 196 | 9.630431 |
| ## 1612 | 0 | 0 | 81 | 9.030137 |
| ## 1613 | 0 | 1 | 121 | 9.389407 |
| ## 1615 | 0 | 1 | 100 | 9.821789 |
| ## 1616 | 0 | 1 | 144 | 9.220390 |
| ## 1618 | 1 | 0 | 0 | 8.497195 |
| ## 1619 | 0 | 0 | 169 | 8.938663 |
| ## 1620 | 0 | 0 | 169 | 9.396073 |
| ## 1621 | 0 | 0 | 169 | 10.041552 |
| ## 1622 | 0 | 0 | 100 | 9.096163 |
| ## 1623 | 1 | 0 | 121 | 10.675700 |
| ## 1624 | 0 | 0 | 169 | 9.521568 |
| ## 1627 | 0 | 1 | 121 | 9.154933 |
| ## 1628 | 1 | 0 | 196 | 9.290168 |
| ## 1629 | 1 | 0 | 144 | 8.464003 |
| ## 1630 | 0 | 0 | 0 | 9.916453 |
| ## 1631 | 0 | 0 | 64 | 9.158099 |
| ## 1632 | 1 | 0 | 121 | 9.853825 |
| ## 1634 | 0 | 1 | 256 | 8.893023 |
| ## 1635 | 0 | 0 | 16 | 9.622516 |
| ## 1637 | 1 | 0 | 49 | 9.609854 |
| ## 1638 | 1 | 0 | 196 | 9.766006 |
| ## 1639 | 0 | 1 | 121 | 9.835797 |
| ## 1640 | 1 | 0 | 169 | 8.618124 |
| ## 1641 | 0 | 0 | 100 | 8.579417 |
| ## 1642 | 0 | 0 | 121 | 8.634265 |
| ## 1643 | 0 | 0 | 49 | 9.078065 |
| ## 1646 | 1 | 0 | 144 | 9.815803 |
| ## 1647 | 0 | 0 | 100 | 8.846641 |
| ## 1648 | 0 | 1 | 81 | 9.777414 |
| ## 1649 | 1 | 0 | 169 | 9.498597 |
| ## 1650 | 0 | 1 | 144 | 9.509037 |
| ## 1651 | 1 | 0 | 144 | 9.750395 |
| ## 1653 | 0 | 0 | 0 | 9.603125 |
| ## 1654 | 1 | 0 | 144 | 9.386895 |
| ## 1656 | 0 | 0 | 0 | 8.366603 |
| ## 1657 | 0 | 0 | 100 | 10.069468 |
| ## 1658 | 0 | 1 | 0 | 8.910721 |
| ## 1659 | 0 | 0 | 64 | 9.723224 |
| ## 1660 | 0 | 0 | 196 | 9.418248 |
| ## 1661 | 0 | 1 | 121 | 8.764210 |
| ## 1662 | 1 | 0 | 144 | 8.987322 |
| ## 1665 | 0 | 1 | 289 | 10.298936 |
| ## 1666 | 0 | 0 | 256 | 10.185692 |
| ## 1667 | 1 | 0 | 64 | 9.238053 |
| ## 1668 | 1 | 0 | 196 | 8.883363 |
| ## 1669 | 0 | 1 | 225 | 8.898502 |
| ## 1670 | 1 | 0 | 144 | 10.115004 |
| ## 1672 | 0 | 1 | 81 | 10.048064 |
| ## 1673 | 1 | 0 | 225 | 9.802617 |
| ## 1675 | 0 | 1 | 0 | 9.721426 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1676 | 1 | 0 | 144 | 10.048497 |
| ## 1677 | 0 | 0 | 289 | 9.162305 |
| ## 1678 | 0 | 0 | 121 | 10.040245 |
| ## 1679 | 0 | 1 | 121 | 9.705707 |
| ## 1680 | 0 | 1 | 169 | 9.756784 |
| ## 1681 | 0 | 1 | 256 | 9.546884 |
| ## 1684 | 1 | 0 | 64 | 10.054533 |
| ## 1685 | 0 | 1 | 225 | 9.144307 |
| ## 1686 | 0 | 0 | 49 | 7.313887 |
| ## 1687 | 0 | 1 | 64 | 9.450223 |
| ## 1688 | 0 | 0 | 49 | 10.374147 |
| ## 1689 | 0 | 0 | 196 | 9.515690 |
| ## 1691 | 1 | 0 | 169 | 8.607217 |
| ## 1692 | 0 | 1 | 100 | 9.752141 |
| ## 1694 | 0 | 0 | 36 | 9.925787 |
| ## 1695 | 1 | 0 | 196 | 9.825039 |
| ## 1696 | 0 | 0 | 0 | 7.313887 |
| ## 1697 | 1 | 0 | 144 | 8.925454 |
| ## 1698 | 1 | 0 | 169 | 9.801510 |
| ## 1699 | 0 | 1 | 144 | 10.180020 |
| ## 1700 | 1 | 0 | 0 | 7.313887 |
| ## 1703 | 0 | 0 | 49 | 9.025335 |
| ## 1704 | 0 | 0 | 64 | 9.193296 |
| ## 1705 | 1 | 0 | 81 | 9.405167 |
| ## 1706 | 1 | 0 | 169 | 10.093322 |
| ## 1707 | 0 | 0 | 256 | 8.811503 |
| ## 1708 | 0 | 0 | 121 | 10.044162 |
| ## 1710 | 0 | 0 | 361 | 10.177742 |
| ## 1711 | 0 | 0 | 121 | 9.241936 |
| ## 1713 | 0 | 1 | 0 | 8.691315 |
| ## 1714 | 0 | 0 | 121 | 9.325542 |
| ## 1715 | 0 | 0 | 121 | 10.117429 |
| ## 1716 | 0 | 0 | 81 | 7.313887 |
| ## 1717 | 0 | 1 | 100 | 9.606496 |
| ## 1718 | 0 | 0 | 121 | 10.179262 |
| ## 1719 | 0 | 1 | 100 | 9.888932 |
| ## 1722 | 0 | 1 | 0 | 8.412055 |
| ## 1723 | 0 | 1 | 0 | 8.732466 |
| ## 1724 | 0 | 1 | 49 | 8.412055 |
| ## 1725 | 1 | 0 | 81 | 9.352794 |
| ## 1726 | 0 | 1 | 0 | 8.539150 |
| ## 1727 | 0 | 0 | 64 | 10.003831 |
| ## 1729 | 0 | 1 | 169 | 10.358092 |
| ## 1730 | 1 | 0 | 25 | 8.922792 |
| ## 1732 | 1 | 0 | 169 | 9.653165 |
| ## 1733 | 0 | 1 | 169 | 9.896513 |
| ## 1734 | 0 | 1 | 81 | 8.476580 |
| ## 1735 | 1 | 0 | 0 | 8.716208 |
| ## 1736 | 0 | 1 | 100 | 9.342333 |
| ## 1737 | 0 | 0 | 100 | 10.101559 |
| ## 1738 | 0 | 0 | 256 | 10.268165 |
| ## 1741 | 0 | 1 | 324 | 8.794976 |
| ## 1742 | 0 | 1 | 289 | 9.933580 |
| ## 1743 | 1 | 0 | 81 | 9.398561 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1744 | 0 | 1 | 100 | 9.078065 |
| ## 1745 | 0 | 0 | 121 | 10.199175 |
| ## 1746 | 0 | 1 | 256 | 9.369990 |
| ## 1748 | 0 | 0 | 100 | 9.575747 |
| ## 1749 | 0 | 1 | 64 | 8.895767 |
| ## 1751 | 0 | 1 | 169 | 9.676022 |
| ## 1752 | 0 | 0 | 121 | 9.381011 |
| ## 1753 | 0 | 0 | 0 | 9.778548 |
| ## 1754 | 0 | 1 | 225 | 9.732165 |
| ## 1755 | 1 | 0 | 144 | 9.248695 |
| ## 1756 | 0 | 0 | 144 | 9.170664 |
| ## 1757 | 0 | 1 | 100 | 10.071583 |
| ## 1760 | 0 | 1 | 121 | 9.233178 |
| ## 1761 | 0 | 1 | 4 | 9.458840 |
| ## 1762 | 0 | 0 | 144 | 9.629774 |
| ## 1763 | 0 | 0 | 225 | 8.643121 |
| ## 1764 | 0 | 1 | 100 | 9.250618 |
| ## 1765 | 0 | 0 | 121 | 8.699681 |
| ## 1767 | 0 | 1 | 144 | 8.651899 |
| ## 1768 | 1 | 0 | 169 | 10.568775 |
| ## 1770 | 0 | 1 | 121 | 9.275285 |
| ## 1771 | 0 | 0 | 49 | 9.346705 |
| ## 1772 | 0 | 1 | 121 | 8.343078 |
| ## 1773 | 0 | 1 | 100 | 8.556606 |
| ## 1774 | 1 | 0 | 144 | 8.949105 |
| ## 1775 | 0 | 1 | 225 | 10.303974 |
| ## 1776 | 0 | 1 | 121 | 9.396073 |
| ## 1779 | 0 | 0 | 169 | 9.570180 |
| ## 1780 | 0 | 0 | 196 | 9.984653 |
| ## 1781 | 0 | 1 | 64 | 10.077063 |
| ## 1782 | 0 | 0 | 64 | 9.000976 |
| ## 1783 | 1 | 0 | 0 | 8.732466 |
| ## 1784 | 0 | 0 | 144 | 8.594339 |
| ## 1786 | 0 | 1 | 225 | 10.407621 |
| ## 1787 | 0 | 1 | 144 | 9.374243 |
| ## 1789 | 0 | 0 | 121 | 10.101149 |
| ## 1790 | 0 | 1 | 144 | 8.832150 |
| ## 1791 | 0 | 0 | 121 | 10.552970 |
| ## 1792 | 0 | 1 | 100 | 10.013731 |
| ## 1793 | 0 | 0 | 4 | 9.661480 |
| ## 1794 | 1 | 0 | 144 | 9.138952 |
| ## 1795 | 0 | 0 | 169 | 9.513477 |
| ## 1798 | 1 | 0 | 64 | 9.753885 |
| ## 1799 | 0 | 0 | 100 | 9.844321 |
| ## 1800 | 0 | 1 | 289 | 8.634265 |
| ## 1801 | 0 | 1 | 196 | 8.734077 |
| ## 1802 | 1 | 0 | 0 | 10.261896 |
| ## 1803 | 0 | 1 | 225 | 9.600421 |
| ## 1805 | 0 | 0 | 121 | 7.313887 |
| ## 1806 | 0 | 1 | 100 | 9.127067 |
| ## 1808 | 1 | 0 | 0 | 8.909370 |
| ## 1809 | 0 | 0 | 121 | 9.451009 |
| ## 1810 | 0 | 0 | 144 | 9.250618 |
| ## 1811 | 0 | 1 | 49 | 10.174316 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1812 | 0 | 0 | 169 | 9.723822 |
| ## 1813 | 0 | 1 | 256 | 9.586102 |
| ## 1814 | 0 | 0 | 225 | 8.318986 |
| ## 1817 | 0 | 0 | 0 | 9.761405 |
| ## 1818 | 0 | 1 | 81 | 9.778548 |
| ## 1819 | 1 | 0 | 49 | 9.214432 |
| ## 1820 | 0 | 1 | 64 | 9.042040 |
| ## 1821 | 0 | 0 | 0 | 7.859799 |
| ## 1822 | 0 | 1 | 225 | 10.264339 |
| ## 1824 | 0 | 1 | 121 | 9.115040 |
| ## 1825 | 0 | 1 | 100 | 9.995200 |
| ## 1828 | 0 | 0 | 169 | 10.212478 |
| ## 1829 | 0 | 0 | 64 | 9.538996 |
| ## 1830 | 0 | 0 | 144 | 10.078743 |
| ## 1831 | 0 | 0 | 144 | 9.061956 |
| ## 1832 | 1 | 0 | 196 | 9.768870 |
| ## 1833 | 0 | 0 | 169 | 9.027739 |
| ## 1834 | 0 | 0 | 100 | 9.215427 |
| ## 1837 | 0 | 0 | 64 | 8.517393 |
| ## 1838 | 1 | 0 | 169 | 10.212478 |
| ## 1839 | 0 | 1 | 196 | 8.451267 |
| ## 1840 | 1 | 0 | 121 | 9.993374 |
| ## 1841 | 0 | 0 | 121 | 8.955577 |
| ## 1842 | 0 | 0 | 100 | 8.734077 |
| ## 1844 | 0 | 0 | 196 | 8.599879 |
| ## 1845 | 0 | 1 | 144 | 9.762557 |
| ## 1847 | 0 | 1 | 169 | 9.034915 |
| ## 1848 | 1 | 0 | 196 | 9.178953 |
| ## 1849 | 0 | 1 | 0 | 8.627123 |
| ## 1850 | 0 | 1 | 121 | 9.241936 |
| ## 1851 | 0 | 1 | 121 | 9.089415 |
| ## 1852 | 0 | 1 | 81 | 9.281823 |
| ## 1853 | 1 | 0 | 196 | 10.311317 |
| ## 1856 | 1 | 0 | 169 | 9.516427 |
| ## 1857 | 0 | 0 | 169 | 10.195448 |
| ## 1858 | 0 | 0 | 0 | 9.781376 |
| ## 1859 | 1 | 0 | 64 | 9.665928 |
| ## 1860 | 0 | 0 | 144 | 10.001113 |
| ## 1861 | 0 | 1 | 144 | 9.590214 |
| ## 1863 | 1 | 0 | 144 | 9.844321 |
| ## 1864 | 0 | 0 | 121 | 9.883846 |
| ## 1866 | 1 | 0 | 100 | 8.543056 |
| ## 1867 | 0 | 1 | 81 | 9.583351 |
| ## 1868 | 1 | 0 | 100 | 9.689118 |
| ## 1869 | 1 | 0 | 196 | 10.023978 |
| ## 1870 | 0 | 0 | 49 | 8.276649 |
| ## 1871 | 0 | 0 | 225 | 9.814164 |
| ## 1872 | 1 | 0 | 121 | 9.106201 |
| ## 1875 | 0 | 0 | 196 | 9.913487 |
| ## 1876 | 0 | 0 | 169 | 10.066074 |
| ## 1877 | 0 | 0 | 0 | 8.839422 |
| ## 1878 | 0 | 0 | 0 | 8.824825 |
| ## 1879 | 1 | 0 | 169 | 9.719625 |
| ## 1880 | 0 | 1 | 64 | 9.108418 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1882 | 0 | 1 | 121 | 10.243205 |
| ## 1883 | 1 | 0 | 64 | 9.723822 |
| ## 1885 | 0 | 1 | 144 | 9.257319 |
| ## 1886 | 0 | 0 | 169 | 8.936035 |
| ## 1887 | 0 | 1 | 144 | 10.119445 |
| ## 1888 | 0 | 0 | 196 | 9.729789 |
| ## 1889 | 0 | 0 | 196 | 9.405989 |
| ## 1890 | 0 | 1 | 81 | 10.119042 |
| ## 1891 | 0 | 1 | 64 | 9.492583 |
| ## 1894 | 0 | 1 | 81 | 9.570878 |
| ## 1895 | 0 | 0 | 121 | 10.431495 |
| ## 1896 | 0 | 0 | 256 | 9.786448 |
| ## 1897 | 0 | 1 | 144 | 9.651880 |
| ## 1898 | 1 | 0 | 36 | 9.809781 |
| ## 1899 | 1 | 0 | 64 | 10.034998 |
| ## 1901 | 0 | 0 | 169 | 9.976320 |
| ## 1902 | 1 | 0 | 64 | 9.627800 |
| ## 1904 | 0 | 0 | 0 | 9.792053 |
| ## 1905 | 0 | 0 | 169 | 8.474494 |
| ## 1906 | 1 | 0 | 289 | 8.648397 |
| ## 1907 | 0 | 0 | 0 | 8.721113 |
| ## 1908 | 0 | 0 | 121 | 9.487290 |
| ## 1909 | 0 | 1 | 169 | 8.513386 |
| ## 1910 | 0 | 1 | 144 | 8.594339 |
| ## 1913 | 0 | 1 | 100 | 9.223355 |
| ## 1914 | 0 | 1 | 0 | 8.366603 |
| ## 1915 | 0 | 0 | 225 | 9.004668 |
| ## 1916 | 0 | 0 | 144 | 10.609576 |
| ## 1917 | 0 | 0 | 169 | 9.587475 |
| ## 1918 | 0 | 0 | 121 | 9.905535 |
| ## 1920 | 0 | 0 | 144 | 9.833119 |
| ## 1921 | 0 | 1 | 144 | 9.726810 |
| ## 1923 | 0 | 1 | 289 | 9.361429 |
| ## 1924 | 1 | 0 | 169 | 9.644782 |
| ## 1925 | 0 | 0 | 121 | 9.902537 |
| ## 1926 | 0 | 1 | 0 | 8.507345 |
| ## 1927 | 0 | 0 | 49 | 9.835262 |
| ## 1928 | 1 | 0 | 169 | 10.233906 |
| ## 1929 | 1 | 0 | 100 | 9.956602 |
| ## 1932 | 0 | 1 | 121 | 8.476580 |
| ## 1933 | 0 | 1 | 36 | 9.902537 |
| ## 1934 | 0 | 1 | 100 | 9.217415 |
| ## 1935 | 0 | 1 | 81 | 9.436759 |
| ## 1936 | 0 | 0 | 169 | 8.938663 |
| ## 1937 | 0 | 0 | 196 | 9.771155 |
| ## 1939 | 0 | 1 | 100 | 8.943898 |
| ## 1940 | 0 | 1 | 81 | 9.632400 |
| ## 1942 | 0 | 0 | 0 | 9.588160 |
| ## 1943 | 0 | 1 | 144 | 9.235131 |
| ## 1944 | 0 | 1 | 169 | 10.232827 |
| ## 1945 | 1 | 0 | 169 | 10.183805 |
| ## 1946 | 0 | 1 | 169 | 9.694678 |
| ## 1947 | 1 | 0 | 144 | 10.014179 |
| ## 1948 | 0 | 0 | 144 | 9.177920 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1951 | 0 | 0 | 256 | 9.881293 |
| ## 1952 | 1 | 0 | 196 | 10.037188 |
| ## 1953 | 0 | 1 | 81 | 10.558439 |
| ## 1954 | 1 | 0 | 256 | 9.803722 |
| ## 1955 | 0 | 0 | 196 | 10.006991 |
| ## 1956 | 0 | 0 | 196 | 8.732466 |
| ## 1958 | 0 | 1 | 0 | 9.724421 |
| ## 1959 | 1 | 0 | 144 | 8.764210 |
| ## 1961 | 0 | 1 | 25 | 9.327323 |
| ## 1962 | 0 | 1 | 121 | 8.877800 |
| ## 1963 | 1 | 0 | 196 | 9.804275 |
| ## 1964 | 0 | 1 | 0 | 8.732466 |
| ## 1965 | 0 | 0 | 144 | 9.268704 |
| ## 1966 | 0 | 1 | 64 | 9.911009 |
| ## 1967 | 0 | 1 | 289 | 9.351058 |
| ## 1970 | 0 | 0 | 144 | 10.287763 |
| ## 1971 | 1 | 0 | 0 | 9.831508 |
| ## 1972 | 0 | 0 | 169 | 9.712993 |
| ## 1973 | 1 | 0 | 25 | 9.787010 |
| ## 1974 | 0 | 1 | 169 | 9.865838 |
| ## 1975 | 0 | 0 | 81 | 9.687258 |
| ## 1977 | 0 | 1 | 49 | 9.977249 |
| ## 1978 | 1 | 0 | 169 | 10.026192 |
| ## 1980 | 1 | 0 | 144 | 9.405167 |
| ## 1981 | 0 | 1 | 169 | 9.708142 |
| ## 1982 | 1 | 0 | 100 | 9.579211 |
| ## 1983 | 0 | 1 | 0 | 9.655731 |
| ## 1984 | 1 | 0 | 36 | 9.570878 |
| ## 1985 | 0 | 0 | 0 | 9.743964 |
| ## 1986 | 0 | 1 | 169 | 8.802522 |
| ## 1989 | 0 | 1 | 0 | 10.281958 |
| ## 1990 | 0 | 1 | 169 | 9.522300 |
| ## 1991 | 0 | 1 | 100 | 10.440303 |
| ## 1992 | 1 | 0 | 0 | 8.891649 |
| ## 1993 | 0 | 1 | 81 | 9.324651 |
| ## 1994 | 0 | 0 | 144 | 9.997934 |
| ## 1996 | 0 | 1 | 144 | 9.589530 |
| ## 1997 | 0 | 0 | 121 | 9.518634 |
| ## 1999 | 0 | 0 | 144 | 9.049115 |
| ## 2000 | 0 | 0 | 225 | 9.919410 |
| ## 2001 | 0 | 1 | 196 | 9.800402 |
| ## 2002 | 0 | 0 | 121 | 9.972127 |
| ## 2003 | 0 | 0 | 100 | 9.351927 |
| ## 2004 | 0 | 1 | 225 | 8.517393 |
| ## 2005 | 0 | 0 | 169 | 10.040245 |
| ## 2008 | 0 | 1 | 196 | 9.839536 |
| ## 2009 | 0 | 0 | 36 | 10.019090 |
| ## 2010 | 0 | 0 | 64 | 10.353001 |
| ## 2011 | 0 | 0 | 49 | 9.913487 |
| ## 2012 | 0 | 0 | 121 | 9.012011 |
| ## 2013 | 0 | 1 | 144 | 9.280892 |
| ## 2015 | 1 | 0 | 196 | 10.045464 |
| ## 2016 | 0 | 0 | 121 | 9.491828 |
| ## 2018 | 0 | 0 | 196 | 10.251712 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 2019 | 0 | 1 | 100 | 9.846970 |
| ## 2020 | 1 | 0 | 256 | 9.478151 |
| ## 2021 | 1 | 0 | 225 | 9.546170 |
| ## 2022 | 1 | 0 | 9 | 10.076642 |
| ## 2023 | 0 | 1 | 121 | 9.742790 |
| ## 2024 | 1 | 0 | 121 | 9.042040 |
| ## 2027 | 0 | 0 | 144 | 9.722625 |
| ## 2028 | 0 | 1 | 144 | 9.112838 |
| ## 2029 | 0 | 0 | 81 | 10.249238 |
| ## 2030 | 0 | 0 | 0 | 10.002020 |
| ## 2031 | 1 | 0 | 225 | 9.940350 |
| ## 2032 | 0 | 1 | 169 | 9.860110 |
| ## 2034 | 0 | 1 | 169 | 9.317489 |
| ## 2035 | 0 | 0 | 49 | 9.419872 |
| ## 2037 | 0 | 1 | 256 | 8.497195 |
| ## 2038 | 1 | 0 | 121 | 9.804275 |
| ## 2039 | 1 | 0 | 256 | 7.758333 |
| ## 2040 | 1 | 0 | 121 | 9.960388 |
| ## 2041 | 0 | 1 | 36 | 8.905309 |
| ## 2042 | 0 | 0 | 196 | 9.109525 |
| ## 2043 | 1 | 0 | 0 | 8.612685 |
| ## 2046 | 0 | 1 | 196 | 10.031925 |
| ## 2047 | 0 | 1 | 225 | 8.268988 |
| ## 2048 | 0 | 0 | 144 | 8.653645 |
| ## 2049 | 0 | 0 | 169 | 8.594339 |
| ## 2050 | 1 | 0 | 225 | 10.337573 |
| ## 2051 | 0 | 0 | 225 | 9.477386 |
| ## 2053 | 1 | 0 | 0 | 8.140607 |
| ## 2054 | 0 | 1 | 0 | 9.539716 |
| ## 2056 | 1 | 0 | 64 | 9.854875 |
| ## 2057 | 1 | 0 | 36 | 10.026192 |
| ## 2058 | 1 | 0 | 196 | 10.226332 |
| ## 2059 | 0 | 1 | 144 | 9.088286 |
| ## 2060 | 1 | 0 | 196 | 9.093919 |
| ## 2061 | 0 | 1 | 81 | 9.173780 |
| ## 2062 | 1 | 0 | 144 | 9.190240 |
| ## 2065 | 0 | 0 | 169 | 10.457401 |
| ## 2066 | 0 | 1 | 225 | 9.349319 |
| ## 2067 | 0 | 1 | 121 | 8.989818 |
| ## 2068 | 0 | 1 | 81 | 8.798002 |
| ## 2069 | 0 | 1 | 144 | 9.556834 |
| ## 2070 | 1 | 0 | 49 | 9.531046 |
| ## 2072 | 0 | 0 | 169 | 10.262245 |
| ## 2073 | 0 | 1 | 81 | 9.922849 |
| ## 2075 | 1 | 0 | 100 | 9.354527 |
| ## 2076 | 0 | 1 | 196 | 8.767329 |
| ## 2077 | 0 | 0 | 49 | 8.858084 |
| ## 2078 | 1 | 0 | 121 | 9.821789 |
| ## 2079 | 0 | 0 | 81 | 8.912069 |
| ## 2080 | 1 | 0 | 121 | 8.521384 |
| ## 2081 | 1 | 0 | 144 | 9.266815 |
| ## 2084 | 0 | 0 | 196 | 8.808519 |
| ## 2085 | 0 | 1 | 144 | 9.081484 |
| ## 2086 | 0 | 0 | 0 | 9.475086 |

| | | | | |
|---------|------------------------------|---|-----|-----------|
| ## 2087 | 0 | 1 | 225 | 8.714568 |
| ## 2088 | 0 | 0 | 144 | 8.556606 |
| ## 2089 | 0 | 1 | 121 | 9.271530 |
| ## 2091 | 0 | 1 | 0 | 8.294300 |
| ## 2092 | 0 | 0 | 49 | 10.035436 |
| ## 2094 | 0 | 0 | 169 | 10.069468 |
| ## 2095 | 0 | 0 | 144 | 9.581973 |
| ## 2096 | 1 | 0 | 100 | 9.960388 |
| ## 2097 | 0 | 1 | 0 | 9.436759 |
| ## 2098 | 1 | 0 | 0 | 8.839422 |
| ## 2099 | 0 | 1 | 36 | 9.777414 |
| ## 2100 | 0 | 0 | 144 | 9.544023 |
| ## 2103 | 1 | 0 | 196 | 10.518160 |
| ## 2104 | 0 | 0 | 121 | 9.061956 |
| ## 2105 | 1 | 0 | 0 | 9.975390 |
| ## 2106 | 0 | 0 | 0 | 8.665786 |
| ## 2107 | 0 | 1 | 169 | 8.436200 |
| ## 2108 | 0 | 1 | 121 | 8.853808 |
| ## 2110 | 1 | 0 | 225 | 10.359994 |
| ## 2111 | 0 | 1 | 196 | 9.433564 |
| ## 2113 | 0 | 0 | 196 | 10.220158 |
| ## 2114 | 0 | 0 | 100 | 9.456497 |
| ## 2115 | 0 | 0 | 144 | 10.194327 |
| ## 2116 | 0 | 1 | 49 | 9.383537 |
| ## 2117 | 0 | 0 | 196 | 9.715409 |
| ## 2118 | 0 | 1 | 324 | 9.840601 |
| ## 2119 | 0 | 0 | 144 | 8.648397 |
| ## 2122 | 0 | 0 | 49 | 8.964568 |
| ## 2123 | 0 | 1 | 121 | 9.681656 |
| ## 2124 | 0 | 1 | 121 | 9.197356 |
| ## 2125 | 0 | 0 | 169 | 9.840601 |
| ## 2126 | 0 | 1 | 144 | 9.226312 |
| ## 2127 | 0 | 0 | 36 | 9.729789 |
| ## 2129 | 0 | 0 | 144 | 10.164351 |
| ## 2130 | 0 | 0 | 169 | 9.133567 |
| ## 2132 | 1 | 0 | 0 | 8.466110 |
| ## 2133 | 0 | 0 | 100 | 9.441531 |
| ## 2134 | 1 | 0 | 225 | 9.636980 |
| ## 2135 | 0 | 1 | 196 | 9.183072 |
| ## 2136 | 0 | 0 | 169 | 9.902037 |
| ## 2137 | 0 | 0 | 100 | 9.541872 |
| ## 2138 | 0 | 1 | 0 | 8.648397 |
| ## 2141 | 0 | 1 | 121 | 8.653645 |
| ## 2142 | 1 | 0 | 169 | 9.747477 |
| ## 2143 | 0 | 0 | 196 | 9.593628 |
| ## 2144 | 0 | 0 | 225 | 9.504576 |
| ## 2145 | 0 | 1 | 225 | 9.945157 |
| ## 2146 | 1 | 0 | 196 | 10.183805 |
| ## 2148 | 0 | 0 | 100 | 10.086684 |
| ## 2149 | 0 | 0 | 169 | 10.446422 |
| ## 2151 | 1 | 0 | 100 | 9.468156 |
| ## 2152 | 0 | 1 | 144 | 7.313887 |
| ## 2153 | 0 | 1 | 121 | 9.332646 |
| ## | carage_log mvr_pts_log inter | | | |

| | | | |
|-------|-----------|-----------|-----|
| ## 1 | 2.0794415 | 0.0000000 | 0 |
| ## 3 | 0.6931472 | 0.0000000 | 0 |
| ## 4 | 2.4849066 | 0.0000000 | 0 |
| ## 5 | 2.3978953 | 1.3862944 | 0 |
| ## 6 | 1.7917595 | 1.3862944 | 0 |
| ## 7 | 0.6931472 | 0.0000000 | 0 |
| ## 8 | 0.6931472 | 1.3862944 | 0 |
| ## 9 | 0.6931472 | 0.0000000 | 0 |
| ## 12 | 2.6390573 | 0.0000000 | 45 |
| ## 13 | 2.3978953 | 0.0000000 | 44 |
| ## 14 | 0.6931472 | 0.0000000 | 0 |
| ## 15 | 2.3978953 | 1.0986123 | 0 |
| ## 16 | 2.7725887 | 0.0000000 | 86 |
| ## 17 | 2.4849066 | 1.0986123 | 45 |
| ## 19 | 0.6931472 | 1.6094379 | 0 |
| ## 20 | 0.6931472 | 1.6094379 | 0 |
| ## 22 | 2.3025851 | 0.6931472 | 0 |
| ## 23 | 2.8903718 | 1.9459101 | 0 |
| ## 24 | 1.7917595 | 1.0986123 | 0 |
| ## 25 | 1.9459101 | 1.3862944 | 0 |
| ## 26 | 2.3978953 | 0.0000000 | 0 |
| ## 27 | 1.7917595 | 0.6931472 | 0 |
| ## 28 | 2.9444390 | 1.0986123 | 0 |
| ## 31 | 2.3025851 | 0.0000000 | 43 |
| ## 32 | 0.6931472 | 1.7917595 | 0 |
| ## 33 | 3.0445224 | 1.6094379 | 0 |
| ## 34 | 0.6931472 | 1.6094379 | 39 |
| ## 35 | 2.7725887 | 0.0000000 | 0 |
| ## 36 | 2.8903718 | 0.0000000 | 0 |
| ## 38 | 0.6931472 | 0.0000000 | 45 |
| ## 39 | 1.7917595 | 1.3862944 | 0 |
| ## 41 | 2.0794415 | 0.0000000 | 0 |
| ## 42 | 2.3978953 | 1.7917595 | 108 |
| ## 43 | 3.0445224 | 0.0000000 | 0 |
| ## 44 | 2.0794415 | 0.0000000 | 0 |
| ## 45 | 1.7917595 | 0.0000000 | 0 |
| ## 46 | 2.7080502 | 1.0986123 | 0 |
| ## 47 | 2.8332133 | 0.0000000 | 59 |
| ## 50 | 2.3025851 | 0.0000000 | 0 |
| ## 51 | 2.1972246 | 1.3862944 | 90 |
| ## 52 | 0.6931472 | 2.1972246 | 0 |
| ## 53 | 2.4849066 | 1.3862944 | 0 |
| ## 54 | 2.3025851 | 2.1972246 | 0 |
| ## 55 | 3.0445224 | 1.0986123 | 0 |
| ## 57 | 1.7917595 | 1.6094379 | 0 |
| ## 58 | 2.7080502 | 0.6931472 | 0 |
| ## 60 | 0.6931472 | 0.0000000 | 0 |
| ## 61 | 2.5649494 | 1.3862944 | 42 |
| ## 62 | 0.6931472 | 1.7917595 | 0 |
| ## 63 | 2.9444390 | 1.6094379 | 0 |
| ## 64 | 0.6931472 | 2.1972246 | 0 |
| ## 65 | 0.6931472 | 1.6094379 | 0 |
| ## 66 | 0.6931472 | 1.3862944 | 45 |
| ## 69 | 2.7725887 | 0.0000000 | 0 |

```

## 70 2.7080502 1.0986123 0
## 71 1.3862944 0.0000000 0
## 72 0.6931472 1.0986123 0
## 73 2.3978953 0.0000000 78
## 74 0.6931472 2.0794415 0
## 76 1.7917595 0.0000000 39
## 77 0.6931472 1.7917595 0
## 79 2.7080502 1.7917595 0
## 80 2.3025851 1.0986123 0
## 81 2.6390573 0.6931472 0
## 82 1.9459101 1.7917595 0
## 83 2.3978953 0.0000000 0
## 84 0.6931472 0.6931472 0
## 85 0.6931472 1.7917595 0
## 88 0.6931472 1.3862944 37
## 89 0.6931472 1.9459101 0
## 90 0.6931472 0.6931472 0
## 91 2.0794415 0.0000000 37
## 92 2.3025851 1.9459101 0
## 93 0.6931472 1.0986123 40
## 95 1.7917595 1.3862944 0
## 96 1.9459101 2.0794415 0
## 98 1.9459101 1.3862944 0
## 99 0.6931472 0.0000000 0
## 100 2.9957323 0.0000000 0
## 101 2.3025851 0.6931472 0
## 102 0.6931472 2.1972246 72
## 103 2.1972246 1.0986123 72
## 104 2.4849066 1.0986123 0
## 107 0.6931472 1.9459101 0
## 108 0.6931472 1.3862944 39
## 109 2.0794415 0.6931472 0
## 110 2.0794415 0.6931472 57
## 111 2.4849066 0.6931472 0
## 112 2.3978953 1.0986123 82
## 114 2.1972246 0.0000000 0
## 115 2.4849066 2.1972246 0
## 117 0.6931472 1.0986123 0
## 118 1.7917595 0.0000000 0
## 119 0.6931472 0.0000000 0
## 120 0.6931472 1.0986123 0
## 121 2.1972246 1.0986123 0
## 122 2.3978953 0.0000000 0
## 123 0.6931472 1.3862944 0
## 126 2.1972246 0.6931472 0
## 127 1.3862944 0.6931472 0
## 128 0.6931472 0.0000000 0
## 129 1.7917595 1.3862944 42
## 130 2.0794415 1.0986123 0
## 131 2.3978953 1.3862944 0
## 133 2.1972246 0.6931472 0
## 134 0.6931472 1.0986123 0
## 136 2.3978953 1.0986123 0
## 137 0.6931472 0.0000000 0

```

| | | | |
|--------|-----------|-----------|-----|
| ## 138 | 2.4849066 | 0.0000000 | 0 |
| ## 139 | 2.1972246 | 0.0000000 | 0 |
| ## 140 | 1.6094379 | 1.0986123 | 0 |
| ## 141 | 1.9459101 | 1.3862944 | 0 |
| ## 142 | 0.6931472 | 1.0986123 | 0 |
| ## 145 | 0.6931472 | 1.6094379 | 186 |
| ## 146 | 2.7080502 | 0.6931472 | 0 |
| ## 147 | 2.8332133 | 0.0000000 | 0 |
| ## 148 | 2.8332133 | 1.0986123 | 0 |
| ## 149 | 3.0445224 | 1.0986123 | 0 |
| ## 150 | 3.1354942 | 0.0000000 | 0 |
| ## 152 | 3.0445224 | 0.6931472 | 0 |
| ## 153 | 2.1972246 | 1.3862944 | 42 |
| ## 155 | 0.6931472 | 1.6094379 | 0 |
| ## 156 | 0.6931472 | 2.0794415 | 0 |
| ## 157 | 3.0910425 | 0.0000000 | 0 |
| ## 158 | 2.3025851 | 1.0986123 | 0 |
| ## 159 | 2.8332133 | 0.0000000 | 0 |
| ## 160 | 1.7917595 | 0.6931472 | 42 |
| ## 161 | 0.6931472 | 1.3862944 | 0 |
| ## 164 | 2.3978953 | 1.0986123 | 0 |
| ## 165 | 0.6931472 | 0.6931472 | 0 |
| ## 166 | 2.3025851 | 1.0986123 | 0 |
| ## 167 | 0.6931472 | 2.0794415 | 0 |
| ## 168 | 2.7725887 | 2.0794415 | 0 |
| ## 169 | 0.6931472 | 0.0000000 | 0 |
| ## 171 | 0.6931472 | 1.0986123 | 90 |
| ## 172 | 0.6931472 | 0.0000000 | 0 |
| ## 174 | 1.7917595 | 1.3862944 | 80 |
| ## 175 | 2.6390573 | 1.0986123 | 0 |
| ## 176 | 2.3025851 | 1.6094379 | 0 |
| ## 177 | 2.0794415 | 0.0000000 | 0 |
| ## 178 | 1.6094379 | 1.0986123 | 90 |
| ## 179 | 2.9444390 | 0.0000000 | 41 |
| ## 180 | 2.9957323 | 0.0000000 | 0 |
| ## 183 | 2.7725887 | 1.3862944 | 0 |
| ## 184 | 2.6390573 | 0.6931472 | 0 |
| ## 185 | 2.8332133 | 0.6931472 | 0 |
| ## 186 | 0.6931472 | 0.6931472 | 0 |
| ## 187 | 0.6931472 | 1.9459101 | 0 |
| ## 188 | 2.3025851 | 1.7917595 | 0 |
| ## 190 | 2.3978953 | 0.0000000 | 0 |
| ## 191 | 0.6931472 | 0.0000000 | 0 |
| ## 193 | 2.1972246 | 0.6931472 | 0 |
| ## 194 | 2.5649494 | 0.0000000 | 0 |
| ## 195 | 2.6390573 | 0.0000000 | 0 |
| ## 196 | 2.0794415 | 0.0000000 | 86 |
| ## 197 | 0.6931472 | 1.0986123 | 84 |
| ## 198 | 0.6931472 | 0.6931472 | 0 |
| ## 199 | 2.3025851 | 1.3862944 | 42 |
| ## 202 | 2.7080502 | 0.0000000 | 0 |
| ## 203 | 2.3025851 | 0.0000000 | 0 |
| ## 204 | 0.6931472 | 0.0000000 | 0 |
| ## 205 | 1.6094379 | 0.6931472 | 0 |

| | | | |
|--------|-----------|-----------|-----|
| ## 206 | 2.6390573 | 1.7917595 | 0 |
| ## 207 | 2.8903718 | 0.0000000 | 0 |
| ## 209 | 0.6931472 | 0.6931472 | 0 |
| ## 210 | 2.1972246 | 1.3862944 | 0 |
| ## 212 | 0.6931472 | 0.0000000 | 0 |
| ## 213 | 2.8332133 | 1.3862944 | 0 |
| ## 214 | 2.7725887 | 0.0000000 | 0 |
| ## 215 | 2.3025851 | 1.9459101 | 0 |
| ## 216 | 2.0794415 | 1.6094379 | 0 |
| ## 217 | 2.5649494 | 0.6931472 | 0 |
| ## 218 | 2.8903718 | 1.6094379 | 41 |
| ## 221 | 2.3978953 | 1.0986123 | 0 |
| ## 222 | 2.1972246 | 2.3025851 | 0 |
| ## 223 | 2.6390573 | 0.0000000 | 0 |
| ## 224 | 1.9459101 | 1.7917595 | 0 |
| ## 225 | 2.1972246 | 1.0986123 | 56 |
| ## 226 | 0.6931472 | 1.6094379 | 0 |
| ## 228 | 2.1972246 | 1.3862944 | 0 |
| ## 229 | 0.6931472 | 0.0000000 | 0 |
| ## 231 | 0.6931472 | 0.0000000 | 45 |
| ## 232 | 2.5649494 | 0.0000000 | 0 |
| ## 233 | 2.9444390 | 1.9459101 | 118 |
| ## 234 | 1.9459101 | 1.7917595 | 0 |
| ## 235 | 2.3978953 | 1.6094379 | 0 |
| ## 236 | 0.6931472 | 1.6094379 | 0 |
| ## 237 | 0.6931472 | 0.0000000 | 0 |
| ## 240 | 0.6931472 | 2.3978953 | 0 |
| ## 241 | 2.3025851 | 1.0986123 | 0 |
| ## 242 | 0.6931472 | 0.0000000 | 0 |
| ## 243 | 2.5649494 | 0.0000000 | 0 |
| ## 244 | 2.3025851 | 0.6931472 | 0 |
| ## 245 | 0.6931472 | 1.0986123 | 0 |
| ## 247 | 2.7725887 | 1.6094379 | 39 |
| ## 248 | 0.6931472 | 0.0000000 | 0 |
| ## 250 | 2.1972246 | 1.3862944 | 0 |
| ## 251 | 2.0794415 | 0.0000000 | 0 |
| ## 252 | 0.6931472 | 0.6931472 | 0 |
| ## 253 | 0.6931472 | 0.0000000 | 0 |
| ## 254 | 1.7917595 | 1.9459101 | 0 |
| ## 255 | 2.4849066 | 0.0000000 | 0 |
| ## 256 | 1.9459101 | 1.7917595 | 0 |
| ## 259 | 2.1972246 | 2.0794415 | 0 |
| ## 260 | 0.6931472 | 1.3862944 | 0 |
| ## 261 | 2.3978953 | 1.3862944 | 39 |
| ## 262 | 0.6931472 | 0.0000000 | 0 |
| ## 263 | 2.0794415 | 1.6094379 | 0 |
| ## 264 | 2.6390573 | 2.0794415 | 0 |
| ## 266 | 2.3978953 | 1.9459101 | 0 |
| ## 267 | 2.0794415 | 2.1972246 | 0 |
| ## 269 | 2.5649494 | 0.0000000 | 76 |
| ## 270 | 0.6931472 | 1.7917595 | 0 |
| ## 271 | 1.9459101 | 1.7917595 | 40 |
| ## 272 | 0.6931472 | 1.9459101 | 0 |
| ## 273 | 1.6094379 | 1.6094379 | 0 |

| | | | |
|--------|-----------|-----------|----|
| ## 274 | 0.6931472 | 1.0986123 | 0 |
| ## 275 | 2.1972246 | 1.7917595 | 0 |
| ## 278 | 1.9459101 | 0.0000000 | 0 |
| ## 279 | 0.6931472 | 1.7917595 | 0 |
| ## 280 | 0.6931472 | 0.0000000 | 0 |
| ## 281 | 0.6931472 | 0.0000000 | 0 |
| ## 282 | 1.9459101 | 0.6931472 | 37 |
| ## 283 | 2.9444390 | 0.0000000 | 0 |
| ## 285 | 2.8332133 | 1.0986123 | 0 |
| ## 286 | 2.1972246 | 0.0000000 | 37 |
| ## 288 | 2.7725887 | 1.7917595 | 80 |
| ## 289 | 0.6931472 | 0.6931472 | 0 |
| ## 290 | 0.6931472 | 2.0794415 | 0 |
| ## 291 | 0.6931472 | 1.9459101 | 0 |
| ## 292 | 0.6931472 | 1.9459101 | 0 |
| ## 293 | 1.9459101 | 1.7917595 | 0 |
| ## 294 | 0.6931472 | 1.0986123 | 80 |
| ## 297 | 0.6931472 | 1.7917595 | 84 |
| ## 298 | 2.8332133 | 1.9459101 | 0 |
| ## 299 | 1.7917595 | 1.0986123 | 0 |
| ## 300 | 2.9444390 | 1.3862944 | 0 |
| ## 301 | 2.9444390 | 0.0000000 | 0 |
| ## 302 | 2.7725887 | 0.0000000 | 0 |
| ## 304 | 2.8332133 | 0.6931472 | 0 |
| ## 305 | 2.8903718 | 1.6094379 | 43 |
| ## 307 | 1.9459101 | 1.3862944 | 0 |
| ## 308 | 1.6094379 | 0.0000000 | 0 |
| ## 309 | 2.5649494 | 0.0000000 | 0 |
| ## 310 | 1.7917595 | 1.9459101 | 0 |
| ## 311 | 2.1972246 | 1.7917595 | 0 |
| ## 312 | 2.0794415 | 1.9459101 | 0 |
| ## 313 | 0.6931472 | 2.3025851 | 0 |
| ## 316 | 2.1972246 | 0.0000000 | 0 |
| ## 317 | 0.6931472 | 1.0986123 | 0 |
| ## 318 | 0.6931472 | 1.0986123 | 0 |
| ## 319 | 2.3978953 | 1.3862944 | 78 |
| ## 320 | 2.3025851 | 1.7917595 | 0 |
| ## 321 | 1.9459101 | 0.6931472 | 0 |
| ## 323 | 2.9444390 | 1.6094379 | 0 |
| ## 324 | 2.5649494 | 0.0000000 | 0 |
| ## 326 | 2.6390573 | 0.0000000 | 0 |
| ## 327 | 1.6094379 | 1.6094379 | 0 |
| ## 328 | 0.6931472 | 1.0986123 | 0 |
| ## 329 | 2.8903718 | 0.6931472 | 0 |
| ## 330 | 2.1972246 | 1.0986123 | 0 |
| ## 331 | 0.6931472 | 1.3862944 | 0 |
| ## 332 | 3.0445224 | 1.9459101 | 0 |
| ## 335 | 0.6931472 | 1.7917595 | 39 |
| ## 336 | 0.6931472 | 0.0000000 | 0 |
| ## 337 | 1.9459101 | 0.0000000 | 0 |
| ## 338 | 2.7080502 | 0.6931472 | 0 |
| ## 339 | 2.7080502 | 1.7917595 | 0 |
| ## 340 | 2.7080502 | 0.0000000 | 36 |
| ## 342 | 2.3025851 | 1.0986123 | 0 |

```

## 343 2.3025851 0.6931472 0
## 345 0.6931472 0.0000000 0
## 346 2.1972246 1.0986123 0
## 347 1.9459101 0.0000000 0
## 348 0.6931472 2.3025851 0
## 349 2.7080502 1.3862944 0
## 350 2.0794415 0.0000000 0
## 351 2.8903718 0.0000000 0
## 354 0.6931472 1.7917595 0
## 355 2.3025851 0.0000000 0
## 356 0.6931472 1.0986123 0
## 357 2.6390573 0.6931472 0
## 358 2.3025851 1.9459101 0
## 359 2.0794415 1.3862944 0
## 361 0.6931472 0.6931472 0
## 362 2.0794415 2.0794415 0
## 364 2.9957323 0.6931472 0
## 365 2.4849066 0.0000000 0
## 366 0.6931472 1.6094379 0
## 367 2.4849066 0.0000000 0
## 368 2.4849066 0.0000000 0
## 369 2.3025851 0.6931472 0
## 370 1.9459101 1.7917595 0
## 373 2.3025851 1.7917595 0
## 374 3.0445224 1.7917595 0
## 375 0.6931472 0.0000000 0
## 376 2.1972246 0.0000000 0
## 377 2.5649494 2.1972246 0
## 378 2.7080502 0.0000000 0
## 380 0.6931472 0.0000000 0
## 381 2.4849066 1.0986123 0
## 383 0.6931472 0.0000000 0
## 384 0.6931472 2.0794415 36
## 385 0.6931472 0.0000000 0
## 386 2.8903718 0.0000000 0
## 387 1.9459101 0.0000000 0
## 388 2.8903718 1.6094379 0
## 389 0.6931472 2.1972246 0
## 392 2.4849066 1.6094379 114
## 393 2.4849066 0.6931472 0
## 394 2.1972246 2.3025851 0
## 395 2.0794415 1.6094379 0
## 396 0.6931472 1.6094379 0
## 397 2.6390573 0.0000000 0
## 399 1.7917595 2.3025851 0
## 400 0.6931472 0.0000000 0
## 402 1.7917595 1.7917595 0
## 403 0.6931472 1.0986123 0
## 404 0.6931472 0.0000000 0
## 405 2.9957323 0.0000000 0
## 406 2.6390573 0.0000000 0
## 407 2.1972246 2.1972246 0
## 408 0.6931472 1.3862944 0
## 411 2.8332133 1.0986123 0

```

```

## 412 2.7080502 0.0000000 0
## 413 1.9459101 1.7917595 0
## 414 2.3025851 0.6931472 0
## 415 1.9459101 1.0986123 0
## 416 0.6931472 1.3862944 0
## 418 2.1972246 1.9459101 0
## 419 0.6931472 0.0000000 0
## 421 2.5649494 1.9459101 0
## 422 1.9459101 1.0986123 39
## 423 0.6931472 0.6931472 44
## 424 0.6931472 1.3862944 0
## 425 2.5649494 1.6094379 0
## 426 2.7080502 0.0000000 0
## 427 2.0794415 1.9459101 0
## 430 2.3978953 0.6931472 0
## 431 2.0794415 0.0000000 0
## 432 2.1972246 1.0986123 0
## 433 0.6931472 1.9459101 0
## 434 2.0794415 0.0000000 55
## 435 2.1972246 1.6094379 41
## 437 2.0794415 2.1972246 0
## 438 0.6931472 0.0000000 0
## 440 2.6390573 2.3025851 0
## 441 0.6931472 0.0000000 0
## 442 0.6931472 1.9459101 0
## 443 0.6931472 1.7917595 0
## 444 1.7917595 1.3862944 0
## 445 1.9459101 1.0986123 0
## 446 1.7917595 0.0000000 0
## 449 2.9957323 2.1972246 0
## 450 2.4849066 1.7917595 0
## 451 2.3025851 1.9459101 112
## 452 2.5649494 0.0000000 0
## 453 0.6931472 1.9459101 0
## 454 1.6094379 0.0000000 0
## 456 1.9459101 1.3862944 0
## 457 2.0794415 0.0000000 0
## 459 2.7080502 1.0986123 37
## 460 2.8332133 0.0000000 0
## 461 2.4849066 1.0986123 0
## 462 0.6931472 1.3862944 88
## 463 0.6931472 0.6931472 0
## 464 2.1972246 0.0000000 0
## 465 1.9459101 0.6931472 0
## 468 0.6931472 1.6094379 42
## 469 0.6931472 1.7917595 0
## 470 2.3025851 0.0000000 0
## 471 2.7080502 0.0000000 0
## 472 2.5649494 1.6094379 0
## 473 2.3978953 0.0000000 0
## 475 2.1972246 1.3862944 180
## 476 1.7917595 0.0000000 0
## 478 0.6931472 1.0986123 0
## 479 0.6931472 0.0000000 0

```

```

## 480 1.7917595 0.6931472 0
## 481 2.3978953 1.0986123 0
## 482 0.6931472 1.3862944 37
## 483 1.9459101 0.6931472 0
## 484 2.4849066 0.0000000 41
## 487 2.0794415 0.0000000 0
## 488 0.6931472 0.0000000 0
## 489 1.9459101 0.0000000 0
## 490 0.6931472 2.1972246 0
## 491 1.9459101 1.3862944 0
## 492 2.1972246 1.9459101 0
## 494 2.7725887 0.6931472 43
## 495 0.6931472 0.0000000 34
## 497 0.6931472 1.0986123 0
## 498 2.3978953 2.1972246 53
## 499 2.0794415 0.6931472 0
## 500 0.6931472 0.0000000 0
## 501 2.3025851 1.0986123 0
## 502 2.0794415 0.0000000 0
## 503 0.6931472 1.0986123 0
## 506 2.1972246 1.3862944 0
## 507 2.4849066 0.0000000 0
## 508 2.5649494 1.9459101 57
## 509 2.8332133 0.6931472 0
## 510 2.4849066 0.0000000 0
## 511 1.6094379 1.3862944 0
## 513 0.6931472 1.3862944 0
## 514 2.1972246 1.0986123 0
## 516 0.6931472 2.1972246 76
## 517 1.9459101 1.0986123 0
## 518 0.6931472 0.0000000 0
## 519 3.2580965 1.3862944 120
## 520 2.3025851 1.3862944 0
## 521 0.6931472 2.3025851 0
## 522 0.6931472 1.7917595 0
## 525 0.6931472 1.7917595 0
## 526 0.6931472 1.0986123 0
## 527 2.8332133 0.0000000 0
## 528 2.4849066 2.1972246 60
## 529 2.0794415 1.7917595 0
## 530 0.6931472 1.3862944 0
## 532 2.3978953 2.0794415 0
## 533 2.5649494 2.0794415 37
## 535 0.6931472 1.6094379 0
## 536 2.0794415 1.3862944 0
## 537 2.0794415 1.3862944 0
## 538 2.3025851 0.0000000 0
## 539 0.6931472 1.6094379 123
## 540 2.0794415 0.0000000 0
## 541 2.4849066 0.0000000 0
## 544 2.5649494 1.6094379 0
## 545 2.8903718 0.0000000 0
## 546 0.6931472 2.1972246 0
## 547 2.6390573 1.6094379 0

```

```

## 548 0.6931472 0.0000000 0
## 549 2.7080502 1.3862944 0
## 551 2.5649494 0.6931472 0
## 552 0.6931472 0.0000000 0
## 554 2.9444390 0.6931472 0
## 555 0.6931472 1.7917595 0
## 556 2.9957323 0.0000000 0
## 557 2.0794415 1.7917595 0
## 558 1.9459101 0.0000000 0
## 559 2.1972246 2.1972246 0
## 560 2.5649494 0.0000000 0
## 563 2.8903718 0.6931472 36
## 564 2.7725887 2.0794415 0
## 565 0.6931472 0.0000000 0
## 566 0.6931472 1.3862944 0
## 567 0.6931472 2.3025851 0
## 568 2.6390573 2.0794415 0
## 570 2.4849066 0.0000000 0
## 571 2.3025851 0.0000000 0
## 573 0.6931472 1.6094379 0
## 574 0.6931472 0.0000000 0
## 575 0.6931472 1.0986123 0
## 576 2.5649494 1.0986123 0
## 577 2.3025851 1.6094379 0
## 578 0.6931472 2.0794415 36
## 579 2.1972246 1.3862944 0
## 582 0.6931472 1.3862944 0
## 583 3.0910425 1.6094379 0
## 584 2.3978953 1.0986123 0
## 585 0.6931472 0.0000000 0
## 586 0.6931472 0.6931472 0
## 587 2.3978953 1.0986123 0
## 589 0.6931472 1.0986123 0
## 590 2.4849066 1.6094379 0
## 592 2.8903718 0.0000000 0
## 593 0.6931472 2.1972246 0
## 594 2.0794415 1.6094379 0
## 595 2.8903718 0.6931472 0
## 596 3.0445224 1.6094379 0
## 597 2.4849066 1.7917595 0
## 598 1.7917595 1.6094379 0
## 601 2.3025851 1.3862944 0
## 602 2.3978953 1.0986123 0
## 603 2.7725887 0.6931472 43
## 604 0.6931472 0.6931472 0
## 605 2.5649494 1.7917595 0
## 606 2.8903718 0.0000000 0
## 608 0.6931472 0.0000000 39
## 609 2.9444390 0.0000000 0
## 611 2.9957323 1.9459101 117
## 612 2.8903718 0.0000000 0
## 613 1.7917595 1.3862944 0
## 614 0.6931472 1.6094379 126
## 615 2.5649494 0.0000000 0

```

| | | | |
|--------|-----------|-----------|-----|
| ## 616 | 0.6931472 | 1.6094379 | 0 |
| ## 617 | 0.6931472 | 1.0986123 | 36 |
| ## 620 | 2.1972246 | 1.3862944 | 0 |
| ## 621 | 1.7917595 | 0.0000000 | 0 |
| ## 622 | 2.0794415 | 1.0986123 | 108 |
| ## 623 | 2.5649494 | 0.6931472 | 0 |
| ## 624 | 0.6931472 | 0.0000000 | 0 |
| ## 625 | 2.7725887 | 1.3862944 | 0 |
| ## 627 | 0.6931472 | 0.0000000 | 0 |
| ## 628 | 2.3978953 | 1.6094379 | 0 |
| ## 630 | 0.6931472 | 0.0000000 | 0 |
| ## 631 | 1.7917595 | 0.6931472 | 0 |
| ## 632 | 2.3025851 | 1.6094379 | 0 |
| ## 633 | 0.6931472 | 2.0794415 | 0 |
| ## 634 | 2.0794415 | 1.3862944 | 123 |
| ## 635 | 0.6931472 | 0.0000000 | 0 |
| ## 636 | 0.6931472 | 2.1972246 | 41 |
| ## 639 | 2.1972246 | 0.6931472 | 0 |
| ## 640 | 2.0794415 | 0.0000000 | 0 |
| ## 641 | 3.1780538 | 1.3862944 | 0 |
| ## 642 | 2.1972246 | 0.0000000 | 0 |
| ## 643 | 2.5649494 | 2.1972246 | 0 |
| ## 644 | 2.3025851 | 1.3862944 | 38 |
| ## 646 | 2.6390573 | 1.6094379 | 0 |
| ## 647 | 2.5649494 | 0.6931472 | 42 |
| ## 649 | 2.1972246 | 1.0986123 | 0 |
| ## 650 | 0.6931472 | 1.7917595 | 0 |
| ## 651 | 0.6931472 | 2.3978953 | 38 |
| ## 652 | 0.6931472 | 2.0794415 | 0 |
| ## 653 | 0.6931472 | 1.9459101 | 0 |
| ## 654 | 0.6931472 | 0.0000000 | 0 |
| ## 655 | 0.6931472 | 1.9459101 | 0 |
| ## 658 | 1.9459101 | 1.0986123 | 0 |
| ## 659 | 0.6931472 | 0.0000000 | 0 |
| ## 660 | 2.0794415 | 0.0000000 | 0 |
| ## 661 | 3.0910425 | 0.0000000 | 43 |
| ## 662 | 2.8332133 | 0.0000000 | 0 |
| ## 663 | 0.6931472 | 0.0000000 | 0 |
| ## 665 | 0.6931472 | 1.7917595 | 0 |
| ## 666 | 2.4849066 | 1.9459101 | 0 |
| ## 668 | 2.7080502 | 0.0000000 | 0 |
| ## 669 | 1.7917595 | 1.0986123 | 0 |
| ## 670 | 0.6931472 | 0.0000000 | 53 |
| ## 671 | 2.1972246 | 1.9459101 | 0 |
| ## 672 | 1.9459101 | 0.0000000 | 76 |
| ## 673 | 1.7917595 | 1.9459101 | 0 |
| ## 674 | 2.5649494 | 2.1972246 | 0 |
| ## 677 | 0.6931472 | 0.6931472 | 0 |
| ## 678 | 2.3025851 | 0.6931472 | 0 |
| ## 679 | 2.7080502 | 1.0986123 | 0 |
| ## 680 | 2.5649494 | 0.0000000 | 88 |
| ## 681 | 2.1972246 | 2.1972246 | 0 |
| ## 682 | 1.9459101 | 0.0000000 | 0 |
| ## 684 | 0.6931472 | 0.0000000 | 0 |

```

## 685 0.6931472 0.0000000 40
## 687 1.9459101 1.3862944 38
## 688 2.7725887 0.6931472 78
## 689 0.6931472 0.0000000 0
## 690 0.6931472 1.6094379 0
## 691 2.0794415 0.6931472 0
## 692 1.9459101 1.7917595 0
## 693 2.0794415 0.0000000 86
## 696 2.3978953 2.3025851 0
## 697 1.7917595 1.3862944 0
## 698 2.1972246 0.6931472 0
## 699 0.6931472 0.6931472 0
## 700 0.6931472 2.1972246 0
## 701 0.6931472 1.3862944 0
## 703 2.3025851 2.0794415 39
## 704 2.3025851 1.3862944 44
## 706 2.7725887 0.0000000 0
## 707 0.6931472 2.1972246 0
## 708 2.3025851 2.0794415 0
## 709 0.6931472 1.0986123 58
## 710 1.6094379 0.0000000 0
## 711 2.6390573 1.7917595 0
## 712 2.0794415 1.0986123 0
## 715 3.2580965 1.7917595 82
## 716 2.7080502 1.0986123 0
## 717 3.0445224 2.1972246 0
## 718 0.6931472 1.6094379 0
## 719 0.6931472 0.0000000 37
## 720 2.3025851 1.0986123 0
## 722 0.6931472 1.0986123 0
## 723 0.6931472 1.0986123 0
## 725 2.4849066 0.0000000 86
## 726 0.6931472 1.0986123 0
## 727 2.4849066 0.6931472 126
## 728 0.6931472 2.1972246 0
## 729 2.9444390 0.0000000 0
## 730 2.4849066 1.7917595 0
## 731 3.0445224 0.6931472 0
## 734 0.6931472 0.6931472 0
## 735 2.9444390 1.7917595 0
## 736 2.7080502 2.3025851 40
## 737 0.6931472 1.3862944 0
## 738 2.9957323 1.7917595 0
## 739 1.3862944 2.0794415 0
## 741 2.3978953 1.0986123 0
## 742 0.6931472 1.7917595 0
## 744 2.6390573 0.0000000 0
## 745 0.6931472 1.0986123 0
## 746 0.6931472 0.6931472 36
## 747 0.6931472 2.1972246 0
## 748 1.9459101 1.9459101 0
## 749 2.3978953 1.3862944 0
## 750 0.6931472 0.0000000 0
## 753 0.6931472 1.7917595 0

```

| | | | |
|--------|-----------|-----------|-----|
| ## 754 | 2.3978953 | 0.6931472 | 0 |
| ## 755 | 2.3978953 | 1.6094379 | 0 |
| ## 756 | 0.6931472 | 0.0000000 | 0 |
| ## 757 | 2.3978953 | 0.0000000 | 0 |
| ## 758 | 2.0794415 | 0.0000000 | 0 |
| ## 760 | 2.3025851 | 1.0986123 | 0 |
| ## 761 | 1.9459101 | 1.3862944 | 0 |
| ## 763 | 2.0794415 | 1.6094379 | 0 |
| ## 764 | 0.6931472 | 0.0000000 | 0 |
| ## 765 | 2.3978953 | 2.4849066 | 0 |
| ## 766 | 2.8332133 | 2.1972246 | 0 |
| ## 767 | 0.6931472 | 0.0000000 | 0 |
| ## 768 | 0.6931472 | 0.0000000 | 72 |
| ## 769 | 1.6094379 | 0.6931472 | 0 |
| ## 772 | 2.3025851 | 1.3862944 | 0 |
| ## 773 | 2.9444390 | 1.6094379 | 0 |
| ## 774 | 0.6931472 | 0.6931472 | 0 |
| ## 775 | 2.1972246 | 0.0000000 | 0 |
| ## 776 | 2.3978953 | 0.0000000 | 90 |
| ## 777 | 2.1972246 | 0.6931472 | 82 |
| ## 779 | 2.6390573 | 0.0000000 | 0 |
| ## 780 | 1.7917595 | 1.3862944 | 0 |
| ## 782 | 2.0794415 | 1.0986123 | 0 |
| ## 783 | 1.0986123 | 0.6931472 | 0 |
| ## 784 | 0.6931472 | 0.0000000 | 0 |
| ## 785 | 2.4849066 | 0.0000000 | 0 |
| ## 786 | 1.6094379 | 1.3862944 | 0 |
| ## 787 | 2.6390573 | 0.0000000 | 0 |
| ## 788 | 0.6931472 | 1.6094379 | 0 |
| ## 791 | 2.3978953 | 1.7917595 | 0 |
| ## 792 | 2.5649494 | 2.0794415 | 0 |
| ## 793 | 2.0794415 | 0.0000000 | 0 |
| ## 794 | 2.4849066 | 1.0986123 | 0 |
| ## 795 | 2.0794415 | 0.0000000 | 0 |
| ## 796 | 2.6390573 | 0.0000000 | 0 |
| ## 798 | 0.6931472 | 1.7917595 | 0 |
| ## 799 | 1.6094379 | 1.6094379 | 0 |
| ## 801 | 2.7080502 | 1.7917595 | 90 |
| ## 802 | 0.6931472 | 1.7917595 | 0 |
| ## 803 | 2.1972246 | 0.6931472 | 129 |
| ## 804 | 0.6931472 | 0.6931472 | 0 |
| ## 805 | 0.6931472 | 2.0794415 | 0 |
| ## 806 | 2.3025851 | 1.9459101 | 0 |
| ## 807 | 2.6390573 | 0.0000000 | 45 |
| ## 810 | 2.0794415 | 0.0000000 | 0 |
| ## 811 | 2.8332133 | 0.0000000 | 0 |
| ## 812 | 0.6931472 | 1.7917595 | 78 |
| ## 813 | 2.3025851 | 0.6931472 | 0 |
| ## 814 | 2.0794415 | 0.0000000 | 0 |
| ## 815 | 0.6931472 | 1.9459101 | 129 |
| ## 817 | 0.6931472 | 1.3862944 | 0 |
| ## 818 | 2.7080502 | 0.0000000 | 0 |
| ## 820 | 2.0794415 | 0.0000000 | 0 |
| ## 821 | 0.6931472 | 0.0000000 | 0 |

```

## 822 1.9459101 1.0986123 0
## 823 2.1972246 0.0000000 0
## 824 2.4849066 0.0000000 0
## 825 0.6931472 0.6931472 0
## 826 0.6931472 1.9459101 42
## 829 2.1972246 0.0000000 0
## 830 2.3025851 1.0986123 0
## 831 0.6931472 2.3978953 0
## 832 2.5649494 0.0000000 0
## 833 1.7917595 2.4849066 0
## 834 0.6931472 0.0000000 0
## 836 2.8332133 2.4849066 0
## 837 2.3025851 0.0000000 0
## 839 0.6931472 0.0000000 0
## 840 0.6931472 1.3862944 0
## 841 0.6931472 0.0000000 0
## 842 2.0794415 1.0986123 129
## 843 2.3025851 0.0000000 0
## 844 0.6931472 0.0000000 0
## 845 2.1972246 0.0000000 0
## 848 2.9444390 2.3025851 0
## 849 2.1972246 0.6931472 42
## 850 1.7917595 1.7917595 0
## 851 0.6931472 1.6094379 0
## 852 0.6931472 1.9459101 0
## 853 0.6931472 1.3862944 0
## 855 0.6931472 0.6931472 0
## 856 2.5649494 2.0794415 0
## 858 2.3978953 0.6931472 0
## 859 2.3025851 2.0794415 0
## 860 0.6931472 0.0000000 0
## 861 1.9459101 0.6931472 0
## 862 0.6931472 0.0000000 0
## 863 2.3025851 0.0000000 0
## 864 2.1972246 0.0000000 0
## 867 1.7917595 0.0000000 42
## 868 2.0794415 2.0794415 0
## 869 2.5649494 2.0794415 0
## 870 2.3025851 0.0000000 59
## 871 0.6931472 0.0000000 0
## 872 2.5649494 0.0000000 0
## 874 2.8332133 0.6931472 0
## 875 2.3978953 0.0000000 0
## 877 2.3025851 0.0000000 0
## 878 0.6931472 1.0986123 45
## 879 0.6931472 0.0000000 0
## 880 1.6094379 2.0794415 0
## 881 2.1972246 0.6931472 0
## 882 2.8332133 0.0000000 0
## 883 1.6094379 0.0000000 0
## 886 2.8903718 0.0000000 0
## 887 2.5649494 0.0000000 0
## 888 0.6931472 2.0794415 0
## 889 2.4849066 1.6094379 0

```

```

## 890 0.6931472 2.0794415 0
## 891 3.0445224 1.6094379 0
## 893 2.3978953 0.0000000 0
## 894 2.4849066 1.7917595 0
## 896 1.9459101 2.0794415 0
## 897 1.9459101 2.0794415 0
## 898 2.5649494 0.0000000 0
## 899 2.1972246 0.0000000 82
## 900 0.6931472 0.6931472 0
## 901 1.6094379 2.1972246 0
## 902 0.6931472 0.0000000 0
## 905 2.8332133 0.0000000 40
## 906 2.0794415 0.0000000 0
## 907 2.1972246 0.6931472 0
## 908 1.9459101 0.6931472 0
## 909 2.7725887 0.0000000 0
## 910 1.9459101 0.0000000 0
## 912 1.9459101 0.0000000 0
## 913 0.6931472 0.0000000 132
## 915 0.6931472 1.9459101 0
## 916 2.3025851 2.1972246 0
## 917 2.4849066 0.0000000 0
## 918 1.9459101 0.6931472 0
## 919 1.7917595 0.0000000 0
## 920 1.7917595 0.0000000 0
## 921 0.6931472 0.0000000 0
## 924 2.3978953 0.0000000 0
## 925 0.6931472 1.9459101 72
## 926 0.6931472 1.7917595 0
## 927 2.0794415 1.6094379 42
## 928 1.9459101 1.0986123 0
## 929 2.6390573 1.6094379 0
## 931 0.6931472 0.0000000 0
## 932 1.9459101 1.9459101 0
## 934 2.8332133 2.0794415 114
## 935 1.9459101 2.3025851 0
## 936 0.6931472 0.6931472 88
## 937 0.6931472 0.0000000 0
## 938 1.9459101 0.6931472 0
## 939 0.6931472 1.3862944 114
## 940 0.6931472 0.0000000 45
## 943 0.6931472 0.0000000 0
## 944 0.6931472 2.1972246 0
## 945 2.1972246 0.0000000 0
## 946 0.6931472 1.0986123 0
## 947 0.6931472 1.7917595 0
## 948 1.7917595 0.0000000 0
## 950 0.6931472 1.3862944 180
## 951 2.6390573 0.0000000 0
## 953 2.5649494 1.0986123 0
## 954 2.9444390 1.3862944 43
## 955 2.0794415 0.0000000 0
## 956 2.3025851 2.1972246 0
## 957 2.3978953 1.3862944 0

```

| | | | |
|---------|-----------|-----------|-----|
| ## 958 | 2.9444390 | 1.0986123 | 0 |
| ## 959 | 2.1972246 | 0.0000000 | 0 |
| ## 962 | 2.1972246 | 1.0986123 | 40 |
| ## 963 | 2.4849066 | 0.0000000 | 0 |
| ## 964 | 0.6931472 | 1.3862944 | 0 |
| ## 965 | 0.6931472 | 0.0000000 | 43 |
| ## 966 | 2.1972246 | 2.3025851 | 0 |
| ## 967 | 1.7917595 | 0.6931472 | 0 |
| ## 969 | 2.3978953 | 1.0986123 | 0 |
| ## 970 | 0.6931472 | 2.0794415 | 0 |
| ## 972 | 2.4849066 | 2.0794415 | 0 |
| ## 973 | 0.6931472 | 1.0986123 | 0 |
| ## 974 | 2.0794415 | 0.0000000 | 0 |
| ## 975 | 2.4849066 | 1.3862944 | 0 |
| ## 976 | 1.9459101 | 1.9459101 | 0 |
| ## 977 | 2.7725887 | 0.6931472 | 0 |
| ## 978 | 2.1972246 | 1.3862944 | 42 |
| ## 981 | 2.3978953 | 0.0000000 | 0 |
| ## 982 | 0.6931472 | 1.7917595 | 0 |
| ## 983 | 0.6931472 | 0.0000000 | 0 |
| ## 984 | 0.6931472 | 0.0000000 | 0 |
| ## 985 | 2.7725887 | 0.0000000 | 0 |
| ## 986 | 2.8903718 | 1.3862944 | 0 |
| ## 988 | 0.6931472 | 0.0000000 | 0 |
| ## 989 | 0.6931472 | 0.0000000 | 0 |
| ## 991 | 0.6931472 | 0.0000000 | 90 |
| ## 992 | 2.1972246 | 1.0986123 | 74 |
| ## 993 | 0.6931472 | 0.0000000 | 0 |
| ## 994 | 2.0794415 | 2.0794415 | 0 |
| ## 995 | 2.3025851 | 0.0000000 | 0 |
| ## 996 | 0.6931472 | 0.0000000 | 0 |
| ## 997 | 0.6931472 | 1.3862944 | 0 |
| ## 1000 | 2.0794415 | 1.3862944 | 0 |
| ## 1001 | 1.9459101 | 0.6931472 | 0 |
| ## 1002 | 2.1972246 | 1.9459101 | 36 |
| ## 1003 | 0.6931472 | 1.3862944 | 129 |
| ## 1004 | 2.1972246 | 0.0000000 | 45 |
| ## 1005 | 0.6931472 | 0.0000000 | 0 |
| ## 1007 | 2.3025851 | 1.3862944 | 0 |
| ## 1008 | 0.6931472 | 0.6931472 | 0 |
| ## 1010 | 3.0445224 | 0.0000000 | 0 |
| ## 1011 | 2.5649494 | 1.6094379 | 0 |
| ## 1012 | 2.0794415 | 0.0000000 | 0 |
| ## 1013 | 2.0794415 | 0.0000000 | 0 |
| ## 1014 | 1.7917595 | 1.0986123 | 0 |
| ## 1015 | 2.3978953 | 1.0986123 | 0 |
| ## 1016 | 2.1972246 | 1.0986123 | 0 |
| ## 1019 | 2.4849066 | 0.0000000 | 0 |
| ## 1020 | 1.7917595 | 1.9459101 | 0 |
| ## 1021 | 0.6931472 | 1.3862944 | 0 |
| ## 1022 | 2.5649494 | 1.0986123 | 0 |
| ## 1023 | 2.3978953 | 0.6931472 | 0 |
| ## 1024 | 2.0794415 | 0.0000000 | 0 |
| ## 1026 | 2.7725887 | 0.0000000 | 0 |

```

## 1027 2.3978953 1.7917595 0
## 1029 2.3025851 1.6094379 0
## 1030 1.0986123 1.9459101 41
## 1031 2.3025851 1.0986123 0
## 1032 0.6931472 0.0000000 0
## 1033 2.0794415 0.0000000 0
## 1034 0.6931472 0.0000000 45
## 1035 0.6931472 2.3025851 0
## 1038 0.6931472 1.0986123 40
## 1039 2.5649494 1.6094379 0
## 1040 0.6931472 1.9459101 0
## 1041 0.6931472 1.6094379 0
## 1042 2.7725887 1.6094379 0
## 1043 2.9444390 1.3862944 0
## 1045 1.7917595 0.0000000 0
## 1046 2.8903718 2.1972246 48
## 1048 2.7080502 0.0000000 0
## 1049 2.5649494 0.0000000 0
## 1050 0.6931472 1.6094379 0
## 1051 2.4849066 2.3025851 0
## 1052 2.1972246 2.0794415 0
## 1053 2.3978953 0.0000000 0
## 1054 2.3978953 0.6931472 78
## 1057 0.6931472 1.6094379 0
## 1058 2.6390573 0.0000000 45
## 1059 2.0794415 1.7917595 0
## 1060 2.9957323 0.6931472 88
## 1061 2.3978953 0.0000000 0
## 1062 0.6931472 0.0000000 0
## 1064 1.9459101 1.6094379 0
## 1065 1.7917595 0.0000000 0
## 1067 2.4849066 1.7917595 42
## 1068 1.9459101 0.0000000 0
## 1069 2.6390573 1.9459101 0
## 1070 2.7080502 0.0000000 0
## 1071 2.7725887 0.0000000 159
## 1072 2.7725887 0.0000000 0
## 1073 2.9957323 1.0986123 0
## 1076 2.0794415 1.3862944 0
## 1077 0.6931472 1.6094379 74
## 1078 0.6931472 0.0000000 0
## 1079 2.4849066 1.7917595 42
## 1080 0.6931472 0.6931472 0
## 1081 1.9459101 0.6931472 0
## 1083 0.6931472 1.0986123 0
## 1084 2.3025851 0.0000000 0
## 1086 0.6931472 1.0986123 0
## 1087 2.3025851 1.6094379 0
## 1088 2.5649494 0.0000000 0
## 1089 2.7725887 1.0986123 0
## 1090 2.1972246 0.0000000 0
## 1091 2.5649494 1.7917595 0
## 1092 0.6931472 1.7917595 0
## 1095 0.6931472 0.0000000 0

```

```

## 1096 2.4849066 0.0000000 0
## 1097 0.6931472 1.0986123 0
## 1098 2.7725887 0.0000000 37
## 1099 2.9444390 0.0000000 0
## 1100 2.7725887 2.3025851 58
## 1102 2.8903718 1.6094379 0
## 1103 0.6931472 1.3862944 0
## 1105 0.6931472 1.0986123 74
## 1106 1.9459101 1.0986123 0
## 1107 2.8903718 1.3862944 0
## 1108 2.7080502 1.0986123 0
## 1109 2.0794415 2.0794415 0
## 1110 2.5649494 1.7917595 0
## 1111 2.3978953 1.3862944 0
## 1114 2.1972246 1.6094379 0
## 1115 0.6931472 0.6931472 0
## 1116 0.6931472 1.9459101 0
## 1117 2.3978953 2.4849066 0
## 1118 2.1972246 0.0000000 0
## 1119 0.6931472 0.0000000 0
## 1121 1.6094379 0.0000000 0
## 1122 0.6931472 1.3862944 0
## 1124 0.6931472 1.6094379 0
## 1125 2.3025851 0.0000000 0
## 1126 2.3978953 0.0000000 0
## 1127 2.3978953 1.9459101 0
## 1128 2.8332133 1.9459101 0
## 1129 2.9957323 1.3862944 0
## 1130 2.7080502 1.0986123 0
## 1133 2.4849066 1.6094379 0
## 1134 0.6931472 1.0986123 0
## 1135 2.0794415 0.0000000 43
## 1136 2.8903718 1.6094379 0
## 1137 2.3025851 2.3025851 36
## 1138 2.3025851 0.6931472 44
## 1140 1.7917595 0.0000000 0
## 1141 0.6931472 0.0000000 0
## 1143 2.3978953 1.0986123 0
## 1144 0.6931472 0.6931472 0
## 1145 2.8332133 0.6931472 0
## 1146 2.6390573 1.3862944 40
## 1147 1.7917595 1.6094379 0
## 1148 0.6931472 0.6931472 0
## 1149 2.3978953 1.3862944 46
## 1152 0.6931472 1.7917595 0
## 1153 2.0794415 1.3862944 0
## 1154 2.8903718 1.9459101 41
## 1155 2.0794415 0.0000000 0
## 1156 0.6931472 1.6094379 0
## 1157 2.0794415 0.0000000 0
## 1159 2.4849066 1.3862944 0
## 1160 0.6931472 1.3862944 0
## 1162 2.4849066 0.0000000 45
## 1163 0.6931472 1.7917595 0

```

```

## 1164 2.6390573 0.0000000 0
## 1165 2.3978953 1.9459101 41
## 1166 0.6931472 1.0986123 0
## 1167 2.3025851 1.3862944 0
## 1168 2.7080502 1.3862944 42
## 1171 2.3025851 1.0986123 0
## 1172 1.7917595 1.3862944 0
## 1173 0.6931472 1.6094379 0
## 1174 0.6931472 0.0000000 0
## 1175 0.6931472 2.0794415 0
## 1176 2.9957323 0.0000000 0
## 1178 0.6931472 2.1972246 0
## 1179 0.6931472 0.0000000 45
## 1181 2.9444390 0.0000000 0
## 1182 2.1972246 0.6931472 0
## 1183 0.6931472 0.0000000 0
## 1184 1.7917595 1.6094379 0
## 1185 1.7917595 0.6931472 0
## 1186 2.9444390 0.6931472 116
## 1187 0.6931472 2.3025851 0
## 1190 2.5649494 0.0000000 0
## 1191 1.3862944 2.1972246 44
## 1192 0.6931472 0.6931472 0
## 1193 2.0794415 0.6931472 0
## 1194 2.3978953 1.6094379 84
## 1195 2.5649494 1.6094379 0
## 1197 0.6931472 0.6931472 0
## 1198 0.6931472 1.6094379 53
## 1200 2.4849066 1.3862944 0
## 1201 0.6931472 0.6931472 38
## 1202 0.6931472 2.0794415 0
## 1203 2.5649494 0.0000000 0
## 1204 0.6931472 1.3862944 0
## 1205 0.6931472 1.6094379 0
## 1206 0.6931472 1.3862944 0
## 1209 1.9459101 0.6931472 0
## 1210 1.7917595 0.6931472 0
## 1211 0.6931472 0.0000000 0
## 1212 2.8903718 0.0000000 0
## 1213 2.4849066 0.0000000 0
## 1214 1.9459101 1.3862944 0
## 1216 0.6931472 1.3862944 0
## 1217 2.7080502 0.0000000 0
## 1219 1.3862944 1.6094379 0
## 1220 0.6931472 1.0986123 0
## 1221 2.3025851 0.6931472 0
## 1222 0.6931472 2.0794415 0
## 1223 2.0794415 0.0000000 78
## 1224 2.1972246 0.6931472 0
## 1225 1.7917595 0.0000000 0
## 1228 0.6931472 1.6094379 0
## 1229 2.1972246 1.6094379 0
## 1230 0.6931472 0.0000000 0
## 1231 2.0794415 1.3862944 0

```

| | | | |
|---------|-----------|-----------|-----|
| ## 1232 | 2.9444390 | 0.0000000 | 41 |
| ## 1233 | 2.1972246 | 0.0000000 | 0 |
| ## 1235 | 0.6931472 | 0.0000000 | 0 |
| ## 1236 | 0.6931472 | 0.0000000 | 0 |
| ## 1238 | 2.0794415 | 1.0986123 | 0 |
| ## 1239 | 2.1972246 | 0.0000000 | 0 |
| ## 1240 | 2.6390573 | 0.0000000 | 0 |
| ## 1241 | 1.6094379 | 0.6931472 | 0 |
| ## 1242 | 2.3978953 | 1.6094379 | 0 |
| ## 1243 | 2.7080502 | 1.9459101 | 0 |
| ## 1244 | 0.6931472 | 1.0986123 | 0 |
| ## 1247 | 0.6931472 | 2.0794415 | 0 |
| ## 1248 | 1.7917595 | 0.0000000 | 0 |
| ## 1249 | 0.6931472 | 2.0794415 | 0 |
| ## 1250 | 2.9444390 | 1.6094379 | 41 |
| ## 1251 | 2.3025851 | 1.6094379 | 0 |
| ## 1252 | 2.7080502 | 1.3862944 | 0 |
| ## 1254 | 1.9459101 | 1.0986123 | 0 |
| ## 1255 | 2.0794415 | 1.3862944 | 0 |
| ## 1257 | 2.1972246 | 1.6094379 | 41 |
| ## 1258 | 0.6931472 | 1.9459101 | 0 |
| ## 1259 | 2.5649494 | 0.6931472 | 74 |
| ## 1260 | 2.5649494 | 0.0000000 | 0 |
| ## 1261 | 0.6931472 | 1.0986123 | 0 |
| ## 1262 | 0.6931472 | 2.0794415 | 0 |
| ## 1263 | 2.0794415 | 1.0986123 | 0 |
| ## 1266 | 2.6390573 | 1.3862944 | 0 |
| ## 1267 | 2.3978953 | 0.6931472 | 0 |
| ## 1268 | 2.5649494 | 0.0000000 | 0 |
| ## 1269 | 2.4849066 | 0.6931472 | 0 |
| ## 1270 | 1.9459101 | 0.0000000 | 0 |
| ## 1271 | 2.8903718 | 0.6931472 | 54 |
| ## 1273 | 0.6931472 | 1.6094379 | 0 |
| ## 1274 | 2.5649494 | 1.3862944 | 0 |
| ## 1276 | 2.7725887 | 0.0000000 | 0 |
| ## 1277 | 3.0910425 | 1.6094379 | 0 |
| ## 1278 | 2.0794415 | 1.6094379 | 0 |
| ## 1279 | 2.1972246 | 0.0000000 | 0 |
| ## 1280 | 2.8903718 | 0.0000000 | 0 |
| ## 1281 | 0.6931472 | 0.0000000 | 0 |
| ## 1282 | 2.3978953 | 1.7917595 | 0 |
| ## 1285 | 1.7917595 | 0.6931472 | 60 |
| ## 1286 | 0.6931472 | 1.6094379 | 0 |
| ## 1287 | 2.3025851 | 0.0000000 | 0 |
| ## 1288 | 0.6931472 | 2.3025851 | 0 |
| ## 1289 | 2.1972246 | 1.0986123 | 0 |
| ## 1290 | 0.6931472 | 1.0986123 | 0 |
| ## 1292 | 2.1972246 | 1.6094379 | 0 |
| ## 1293 | 2.3025851 | 1.0986123 | 0 |
| ## 1295 | 2.0794415 | 1.0986123 | 0 |
| ## 1296 | 2.7080502 | 1.0986123 | 0 |
| ## 1297 | 0.6931472 | 0.6931472 | 122 |
| ## 1298 | 2.1972246 | 0.0000000 | 0 |
| ## 1299 | 2.9957323 | 0.0000000 | 0 |

```

## 1300 0.6931472 2.4849066 43
## 1301 2.5649494 1.6094379 0
## 1304 2.5649494 0.0000000 0
## 1305 2.3978953 1.3862944 45
## 1306 2.3025851 1.7917595 0
## 1307 2.7080502 0.0000000 0
## 1308 1.7917595 1.0986123 0
## 1309 0.6931472 0.0000000 0
## 1311 2.0794415 1.0986123 0
## 1312 1.7917595 0.0000000 0
## 1314 1.7917595 1.6094379 0
## 1315 2.3025851 1.0986123 0
## 1316 2.5649494 1.7917595 0
## 1317 2.3025851 0.6931472 0
## 1318 0.6931472 0.0000000 0
## 1319 1.7917595 0.0000000 0
## 1320 2.7725887 1.9459101 0
## 1323 1.9459101 1.6094379 0
## 1324 2.0794415 0.6931472 88
## 1325 2.3025851 0.0000000 0
## 1326 2.3025851 1.0986123 78
## 1327 0.6931472 0.6931472 0
## 1328 2.9444390 0.0000000 40
## 1330 0.6931472 1.0986123 0
## 1331 1.9459101 0.0000000 44
## 1333 0.6931472 0.0000000 0
## 1334 0.6931472 1.9459101 0
## 1335 2.3978953 0.6931472 0
## 1336 2.1972246 2.0794415 0
## 1337 2.1972246 2.3025851 0
## 1338 2.1972246 0.0000000 0
## 1339 1.7917595 1.7917595 0
## 1342 1.6094379 1.3862944 0
## 1343 2.7080502 2.4849066 0
## 1344 2.1972246 0.0000000 0
## 1345 2.8332133 0.0000000 0
## 1346 2.3025851 0.0000000 0
## 1347 0.6931472 0.6931472 43
## 1349 0.6931472 0.0000000 0
## 1350 2.3978953 0.0000000 0
## 1352 1.6094379 0.6931472 0
## 1353 1.6094379 0.0000000 38
## 1354 0.6931472 2.0794415 0
## 1355 0.6931472 1.0986123 0
## 1356 0.6931472 1.0986123 74
## 1357 0.6931472 0.0000000 0
## 1358 0.6931472 0.0000000 0
## 1361 0.6931472 1.3862944 78
## 1362 2.0794415 0.6931472 0
## 1363 0.6931472 2.0794415 0
## 1364 2.4849066 0.0000000 0
## 1365 2.1972246 1.6094379 0
## 1366 2.7080502 1.3862944 0
## 1368 2.4849066 2.1972246 44

```

```

## 1369 0.6931472 1.0986123 0
## 1371 2.0794415 0.0000000 0
## 1372 2.8332133 2.0794415 0
## 1373 2.3025851 0.0000000 0
## 1374 0.6931472 2.1972246 0
## 1375 2.4849066 2.1972246 0
## 1376 2.7725887 0.0000000 0
## 1377 0.6931472 1.7917595 120
## 1380 1.9459101 1.3862944 44
## 1381 2.6390573 1.3862944 0
## 1382 0.6931472 1.0986123 0
## 1383 2.6390573 0.0000000 0
## 1384 1.9459101 1.6094379 40
## 1385 2.3025851 1.3862944 0
## 1387 2.7725887 0.0000000 0
## 1388 1.7917595 2.3978953 38
## 1390 2.3978953 2.3025851 0
## 1391 0.6931472 1.7917595 76
## 1392 0.6931472 0.0000000 0
## 1393 2.9957323 2.0794415 0
## 1394 2.7725887 0.6931472 0
## 1395 0.6931472 0.6931472 0
## 1396 2.3978953 0.0000000 0
## 1399 2.3025851 2.0794415 0
## 1400 2.3978953 0.0000000 0
## 1401 1.9459101 0.0000000 38
## 1402 0.6931472 1.6094379 0
## 1403 2.9957323 1.6094379 72
## 1404 2.7080502 1.3862944 0
## 1406 0.6931472 0.0000000 38
## 1407 2.3978953 1.7917595 43
## 1409 0.6931472 0.6931472 0
## 1410 0.6931472 0.0000000 0
## 1411 2.5649494 1.0986123 0
## 1412 2.1972246 0.0000000 0
## 1413 2.6390573 0.0000000 0
## 1414 2.3978953 0.0000000 0
## 1415 2.1972246 0.0000000 0
## 1418 2.1972246 1.6094379 45
## 1419 0.6931472 0.0000000 0
## 1420 0.6931472 0.6931472 0
## 1421 1.3862944 1.0986123 0
## 1422 3.0445224 0.0000000 0
## 1423 2.9444390 1.3862944 0
## 1425 2.3025851 1.3862944 37
## 1426 1.9459101 1.6094379 0
## 1428 1.3862944 1.6094379 0
## 1429 1.3862944 1.9459101 0
## 1430 0.6931472 0.6931472 0
## 1431 2.3025851 1.6094379 0
## 1432 2.3025851 0.6931472 0
## 1433 0.6931472 1.7917595 0
## 1434 2.0794415 0.0000000 56
## 1437 1.9459101 1.0986123 0

```

| | | | |
|---------|-----------|-----------|-----|
| ## 1438 | 1.6094379 | 1.0986123 | 0 |
| ## 1439 | 2.1972246 | 2.0794415 | 0 |
| ## 1440 | 2.7725887 | 1.0986123 | 0 |
| ## 1441 | 2.3978953 | 0.6931472 | 0 |
| ## 1442 | 1.9459101 | 0.0000000 | 0 |
| ## 1444 | 2.3025851 | 1.6094379 | 0 |
| ## 1445 | 2.8332133 | 1.0986123 | 0 |
| ## 1447 | 2.9444390 | 1.6094379 | 0 |
| ## 1448 | 0.6931472 | 2.1972246 | 0 |
| ## 1449 | 2.3978953 | 0.0000000 | 0 |
| ## 1450 | 2.3978953 | 1.7917595 | 0 |
| ## 1451 | 2.3025851 | 1.0986123 | 0 |
| ## 1452 | 2.7080502 | 0.0000000 | 0 |
| ## 1453 | 0.6931472 | 1.3862944 | 0 |
| ## 1456 | 2.3978953 | 2.0794415 | 0 |
| ## 1457 | 2.1972246 | 0.6931472 | 0 |
| ## 1458 | 2.0794415 | 1.3862944 | 0 |
| ## 1459 | 2.3978953 | 1.7917595 | 0 |
| ## 1460 | 2.0794415 | 2.0794415 | 0 |
| ## 1461 | 2.0794415 | 1.7917595 | 0 |
| ## 1463 | 2.8903718 | 1.3862944 | 82 |
| ## 1464 | 3.0445224 | 1.0986123 | 48 |
| ## 1466 | 2.0794415 | 1.3862944 | 0 |
| ## 1467 | 0.6931472 | 0.6931472 | 0 |
| ## 1468 | 0.6931472 | 0.0000000 | 90 |
| ## 1469 | 0.6931472 | 1.6094379 | 0 |
| ## 1470 | 2.7080502 | 1.7917595 | 48 |
| ## 1471 | 2.6390573 | 0.0000000 | 0 |
| ## 1472 | 1.9459101 | 0.0000000 | 0 |
| ## 1475 | 2.1972246 | 0.0000000 | 86 |
| ## 1476 | 0.6931472 | 1.0986123 | 0 |
| ## 1477 | 1.6094379 | 1.6094379 | 0 |
| ## 1478 | 0.6931472 | 2.1972246 | 0 |
| ## 1479 | 0.6931472 | 1.9459101 | 0 |
| ## 1480 | 2.3978953 | 0.0000000 | 0 |
| ## 1482 | 2.7080502 | 1.9459101 | 0 |
| ## 1483 | 2.1972246 | 0.0000000 | 0 |
| ## 1485 | 0.6931472 | 0.0000000 | 78 |
| ## 1486 | 2.8903718 | 1.3862944 | 0 |
| ## 1487 | 0.6931472 | 1.0986123 | 80 |
| ## 1488 | 2.0794415 | 1.0986123 | 0 |
| ## 1489 | 3.1354942 | 1.3862944 | 116 |
| ## 1490 | 2.1972246 | 1.0986123 | 41 |
| ## 1491 | 0.6931472 | 1.0986123 | 0 |
| ## 1494 | 2.4849066 | 0.6931472 | 0 |
| ## 1495 | 2.5649494 | 2.0794415 | 50 |
| ## 1496 | 0.6931472 | 0.0000000 | 0 |
| ## 1497 | 2.6390573 | 1.7917595 | 0 |
| ## 1498 | 2.5649494 | 0.0000000 | 0 |
| ## 1499 | 1.7917595 | 0.6931472 | 0 |
| ## 1501 | 0.6931472 | 1.0986123 | 0 |
| ## 1502 | 0.6931472 | 1.3862944 | 0 |
| ## 1504 | 2.3978953 | 0.0000000 | 0 |
| ## 1505 | 2.3025851 | 1.7917595 | 84 |

| | | | |
|---------|-----------|-----------|-----|
| ## 1506 | 0.6931472 | 1.9459101 | 40 |
| ## 1507 | 2.0794415 | 0.0000000 | 0 |
| ## 1508 | 2.6390573 | 1.9459101 | 0 |
| ## 1509 | 1.3862944 | 1.6094379 | 0 |
| ## 1510 | 2.8903718 | 1.0986123 | 0 |
| ## 1513 | 1.9459101 | 0.0000000 | 0 |
| ## 1514 | 2.0794415 | 1.0986123 | 0 |
| ## 1515 | 2.9957323 | 0.6931472 | 0 |
| ## 1516 | 0.6931472 | 2.1972246 | 0 |
| ## 1517 | 2.1972246 | 1.0986123 | 84 |
| ## 1518 | 0.6931472 | 0.0000000 | 0 |
| ## 1520 | 2.7080502 | 0.0000000 | 0 |
| ## 1521 | 2.3025851 | 0.0000000 | 0 |
| ## 1523 | 2.3978953 | 0.0000000 | 0 |
| ## 1524 | 0.6931472 | 0.0000000 | 0 |
| ## 1525 | 2.0794415 | 1.3862944 | 0 |
| ## 1526 | 2.8332133 | 0.0000000 | 44 |
| ## 1527 | 0.6931472 | 0.0000000 | 45 |
| ## 1528 | 0.6931472 | 0.0000000 | 0 |
| ## 1529 | 1.7917595 | 1.6094379 | 38 |
| ## 1532 | 2.1972246 | 2.0794415 | 0 |
| ## 1533 | 0.6931472 | 1.6094379 | 37 |
| ## 1534 | 1.6094379 | 1.3862944 | 0 |
| ## 1535 | 0.6931472 | 0.6931472 | 0 |
| ## 1536 | 0.6931472 | 1.9459101 | 0 |
| ## 1537 | 0.6931472 | 1.0986123 | 0 |
| ## 1539 | 2.4849066 | 1.9459101 | 0 |
| ## 1540 | 2.3978953 | 1.3862944 | 0 |
| ## 1542 | 2.3025851 | 1.7917595 | 0 |
| ## 1543 | 2.3025851 | 1.3862944 | 0 |
| ## 1544 | 2.0794415 | 1.7917595 | 0 |
| ## 1545 | 0.6931472 | 2.3978953 | 0 |
| ## 1546 | 2.0794415 | 1.0986123 | 0 |
| ## 1547 | 1.7917595 | 0.0000000 | 0 |
| ## 1548 | 1.7917595 | 2.1972246 | 0 |
| ## 1551 | 2.6390573 | 0.0000000 | 0 |
| ## 1552 | 2.4849066 | 1.6094379 | 56 |
| ## 1553 | 2.3025851 | 2.0794415 | 74 |
| ## 1554 | 0.6931472 | 0.0000000 | 0 |
| ## 1555 | 3.1354942 | 0.0000000 | 0 |
| ## 1556 | 2.5649494 | 0.6931472 | 0 |
| ## 1558 | 2.4849066 | 2.3025851 | 123 |
| ## 1559 | 0.6931472 | 1.7917595 | 129 |
| ## 1561 | 1.7917595 | 1.7917595 | 0 |
| ## 1562 | 1.7917595 | 1.6094379 | 0 |
| ## 1563 | 0.6931472 | 0.6931472 | 80 |
| ## 1564 | 2.8332133 | 0.6931472 | 0 |
| ## 1565 | 2.3978953 | 1.0986123 | 80 |
| ## 1566 | 0.6931472 | 2.3025851 | 0 |
| ## 1567 | 2.5649494 | 1.6094379 | 0 |
| ## 1570 | 0.6931472 | 2.0794415 | 0 |
| ## 1571 | 2.0794415 | 0.6931472 | 0 |
| ## 1572 | 2.7725887 | 1.3862944 | 0 |
| ## 1573 | 2.0794415 | 1.0986123 | 108 |

```

## 1574 1.9459101 1.3862944 0
## 1575 3.0445224 0.6931472 0
## 1577 0.6931472 0.0000000 0
## 1578 2.3025851 1.7917595 0
## 1580 0.6931472 0.0000000 43
## 1581 2.5649494 1.3862944 0
## 1582 2.8332133 1.9459101 43
## 1583 0.6931472 1.3862944 0
## 1584 1.9459101 1.6094379 0
## 1585 2.0794415 2.1972246 88
## 1586 2.9444390 2.0794415 0
## 1589 0.6931472 1.6094379 0
## 1590 2.6390573 0.0000000 0
## 1591 2.4849066 0.6931472 0
## 1592 1.9459101 2.0794415 0
## 1593 0.6931472 1.0986123 0
## 1594 2.1972246 1.7917595 39
## 1596 2.5649494 0.0000000 0
## 1597 1.7917595 0.6931472 0
## 1599 1.7917595 0.0000000 0
## 1600 2.1972246 0.0000000 0
## 1601 2.1972246 1.3862944 0
## 1602 2.8332133 0.6931472 0
## 1603 0.6931472 0.0000000 0
## 1604 0.6931472 1.9459101 0
## 1605 2.1972246 2.1972246 0
## 1608 0.6931472 0.0000000 0
## 1609 0.6931472 1.3862944 0
## 1610 2.9957323 1.9459101 36
## 1611 0.6931472 0.0000000 0
## 1612 0.6931472 0.0000000 0
## 1613 0.6931472 1.3862944 82
## 1615 2.3025851 1.6094379 0
## 1616 1.3862944 1.6094379 0
## 1618 1.9459101 0.0000000 0
## 1619 0.6931472 2.4849066 0
## 1620 1.9459101 0.0000000 0
## 1621 0.6931472 0.0000000 39
## 1622 2.8903718 0.0000000 0
## 1623 2.1972246 0.6931472 0
## 1624 0.6931472 0.0000000 0
## 1627 0.6931472 0.6931472 0
## 1628 2.6390573 0.0000000 0
## 1629 1.9459101 0.0000000 0
## 1630 0.6931472 1.6094379 0
## 1631 2.8903718 0.0000000 0
## 1632 2.0794415 0.0000000 0
## 1634 1.9459101 1.0986123 0
## 1635 2.1972246 1.6094379 126
## 1637 2.6390573 0.0000000 0
## 1638 2.0794415 1.6094379 40
## 1639 0.6931472 0.6931472 0
## 1640 2.3025851 1.9459101 0
## 1641 1.9459101 0.0000000 0

```

| | | | |
|---------|-----------|-----------|-----|
| ## 1642 | 2.9444390 | 0.0000000 | 41 |
| ## 1643 | 2.3978953 | 0.6931472 | 0 |
| ## 1646 | 2.3978953 | 0.6931472 | 0 |
| ## 1647 | 1.6094379 | 0.6931472 | 0 |
| ## 1648 | 2.3025851 | 1.0986123 | 0 |
| ## 1649 | 2.3025851 | 0.0000000 | 0 |
| ## 1650 | 2.1972246 | 0.0000000 | 0 |
| ## 1651 | 1.9459101 | 0.0000000 | 43 |
| ## 1653 | 1.9459101 | 1.0986123 | 0 |
| ## 1654 | 2.3025851 | 1.9459101 | 45 |
| ## 1656 | 1.9459101 | 0.0000000 | 0 |
| ## 1657 | 2.8332133 | 2.3025851 | 0 |
| ## 1658 | 0.6931472 | 2.1972246 | 0 |
| ## 1659 | 0.6931472 | 1.7917595 | 0 |
| ## 1660 | 2.3978953 | 0.0000000 | 135 |
| ## 1661 | 2.0794415 | 1.6094379 | 0 |
| ## 1662 | 2.3978953 | 1.6094379 | 0 |
| ## 1665 | 2.1972246 | 0.0000000 | 56 |
| ## 1666 | 2.8332133 | 0.6931472 | 0 |
| ## 1667 | 2.0794415 | 1.6094379 | 40 |
| ## 1668 | 2.5649494 | 1.0986123 | 45 |
| ## 1669 | 2.0794415 | 0.6931472 | 0 |
| ## 1670 | 2.6390573 | 1.3862944 | 0 |
| ## 1672 | 0.6931472 | 1.0986123 | 0 |
| ## 1673 | 2.7080502 | 1.6094379 | 43 |
| ## 1675 | 2.3025851 | 0.0000000 | 0 |
| ## 1676 | 1.9459101 | 0.6931472 | 38 |
| ## 1677 | 1.3862944 | 1.6094379 | 0 |
| ## 1678 | 0.6931472 | 2.0794415 | 0 |
| ## 1679 | 0.6931472 | 0.0000000 | 0 |
| ## 1680 | 0.6931472 | 1.0986123 | 0 |
| ## 1681 | 2.3025851 | 0.6931472 | 0 |
| ## 1684 | 0.6931472 | 1.0986123 | 0 |
| ## 1685 | 1.9459101 | 0.0000000 | 0 |
| ## 1686 | 2.0794415 | 0.6931472 | 0 |
| ## 1687 | 0.6931472 | 0.6931472 | 0 |
| ## 1688 | 2.7725887 | 0.0000000 | 0 |
| ## 1689 | 2.3025851 | 0.6931472 | 0 |
| ## 1691 | 0.6931472 | 0.0000000 | 0 |
| ## 1692 | 0.6931472 | 1.6094379 | 0 |
| ## 1694 | 0.6931472 | 1.6094379 | 44 |
| ## 1695 | 2.0794415 | 0.0000000 | 0 |
| ## 1696 | 2.0794415 | 1.9459101 | 0 |
| ## 1697 | 2.5649494 | 0.0000000 | 0 |
| ## 1698 | 2.7080502 | 1.6094379 | 42 |
| ## 1699 | 2.3025851 | 2.0794415 | 0 |
| ## 1700 | 1.7917595 | 1.6094379 | 88 |
| ## 1703 | 1.9459101 | 0.0000000 | 0 |
| ## 1704 | 0.6931472 | 0.0000000 | 0 |
| ## 1705 | 2.1972246 | 1.3862944 | 0 |
| ## 1706 | 2.3978953 | 0.0000000 | 0 |
| ## 1707 | 2.4849066 | 0.0000000 | 53 |
| ## 1708 | 0.6931472 | 1.0986123 | 0 |
| ## 1710 | 2.8903718 | 0.6931472 | 124 |

```

## 1711 3.0445224 1.0986123 48
## 1713 0.6931472 1.3862944 0
## 1714 2.9957323 1.7917595 44
## 1715 0.6931472 0.0000000 0
## 1716 0.6931472 0.0000000 0
## 1717 0.6931472 1.6094379 0
## 1718 1.7917595 1.6094379 0
## 1719 2.0794415 0.0000000 0
## 1722 2.1972246 1.3862944 0
## 1723 0.6931472 1.0986123 0
## 1724 0.6931472 0.0000000 0
## 1725 2.3025851 1.0986123 0
## 1726 2.0794415 0.0000000 0
## 1727 2.9957323 1.3862944 0
## 1729 0.6931472 1.6094379 0
## 1730 2.6390573 1.6094379 0
## 1732 2.3025851 0.0000000 0
## 1733 2.4849066 0.0000000 0
## 1734 1.7917595 0.0000000 0
## 1735 2.5649494 1.7917595 0
## 1736 0.6931472 1.3862944 0
## 1737 2.4849066 0.0000000 0
## 1738 2.5649494 1.6094379 37
## 1741 0.6931472 1.9459101 0
## 1742 2.1972246 1.0986123 134
## 1743 2.5649494 2.0794415 0
## 1744 0.6931472 2.3025851 0
## 1745 2.5649494 0.0000000 0
## 1746 1.9459101 1.7917595 0
## 1748 2.0794415 1.3862944 0
## 1749 2.1972246 0.0000000 0
## 1751 0.6931472 0.0000000 80
## 1752 0.6931472 0.0000000 0
## 1753 0.6931472 1.3862944 0
## 1754 2.3025851 0.6931472 0
## 1755 2.6390573 0.6931472 0
## 1756 0.6931472 1.7917595 0
## 1757 2.1972246 0.6931472 0
## 1760 0.6931472 1.0986123 0
## 1761 2.3025851 1.9459101 0
## 1762 1.9459101 2.0794415 0
## 1763 2.9957323 1.0986123 56
## 1764 1.9459101 0.0000000 0
## 1765 0.6931472 1.6094379 0
## 1767 1.9459101 0.0000000 0
## 1768 0.6931472 1.3862944 117
## 1770 2.3978953 0.0000000 0
## 1771 2.3978953 1.3862944 0
## 1772 1.9459101 1.9459101 0
## 1773 2.1972246 1.0986123 0
## 1774 2.3978953 1.0986123 0
## 1775 0.6931472 1.3862944 0
## 1776 0.6931472 1.3862944 0
## 1779 2.7080502 0.0000000 0

```

```

## 1780 2.9444390 0.6931472 40
## 1781 0.6931472 0.0000000 72
## 1782 1.9459101 1.7917595 0
## 1783 2.3025851 1.0986123 0
## 1784 3.0445224 1.0986123 78
## 1786 1.6094379 0.0000000 43
## 1787 2.4849066 1.9459101 0
## 1789 2.4849066 0.0000000 0
## 1790 2.0794415 1.6094379 0
## 1791 2.9444390 0.6931472 0
## 1792 0.6931472 1.3862944 0
## 1793 2.9957323 1.0986123 63
## 1794 2.7080502 0.0000000 0
## 1795 0.6931472 1.6094379 0
## 1798 2.5649494 0.0000000 0
## 1799 0.6931472 0.6931472 0
## 1800 0.6931472 0.0000000 114
## 1801 2.1972246 0.0000000 0
## 1802 2.5649494 0.6931472 0
## 1803 0.6931472 1.6094379 0
## 1805 0.6931472 1.3862944 0
## 1806 0.6931472 1.7917595 0
## 1808 2.4849066 1.3862944 0
## 1809 1.6094379 1.7917595 0
## 1810 2.9957323 1.3862944 138
## 1811 0.6931472 1.6094379 0
## 1812 2.8332133 0.0000000 0
## 1813 2.3025851 1.3862944 0
## 1814 2.8903718 1.3862944 0
## 1817 1.7917595 2.0794415 0
## 1818 0.6931472 1.3862944 0
## 1819 2.0794415 0.0000000 0
## 1820 0.6931472 0.6931472 0
## 1821 2.3025851 0.6931472 0
## 1822 0.6931472 0.0000000 0
## 1824 0.6931472 1.0986123 46
## 1825 2.3978953 0.0000000 0
## 1828 2.0794415 0.0000000 0
## 1829 2.0794415 0.6931472 0
## 1830 0.6931472 0.0000000 0
## 1831 0.6931472 1.7917595 37
## 1832 0.6931472 0.6931472 0
## 1833 0.6931472 1.0986123 88
## 1834 0.6931472 0.0000000 0
## 1837 2.3025851 1.3862944 0
## 1838 2.0794415 2.1972246 0
## 1839 0.6931472 1.3862944 0
## 1840 2.0794415 0.6931472 0
## 1841 0.6931472 1.9459101 0
## 1842 2.0794415 1.9459101 0
## 1844 0.6931472 1.9459101 0
## 1845 2.0794415 0.6931472 88
## 1847 2.3025851 1.3862944 0
## 1848 2.5649494 0.0000000 90

```

```

## 1849 0.6931472 2.4849066 0
## 1850 2.0794415 0.6931472 43
## 1851 0.6931472 0.0000000 0
## 1852 2.1972246 1.0986123 0
## 1853 2.3025851 1.7917595 0
## 1856 2.4849066 0.0000000 0
## 1857 1.0986123 1.3862944 0
## 1858 1.9459101 0.0000000 0
## 1859 2.7725887 1.0986123 72
## 1860 1.6094379 0.6931472 124
## 1861 0.6931472 0.0000000 0
## 1863 2.3025851 1.3862944 0
## 1864 0.6931472 0.0000000 0
## 1866 2.4849066 2.3025851 0
## 1867 0.6931472 1.3862944 0
## 1868 2.6390573 0.0000000 0
## 1869 2.3978953 1.0986123 38
## 1870 2.3978953 1.6094379 0
## 1871 2.9957323 1.3862944 90
## 1872 2.3978953 0.6931472 0
## 1875 0.6931472 1.0986123 0
## 1876 3.0910425 1.0986123 0
## 1877 2.0794415 0.0000000 0
## 1878 1.9459101 0.6931472 0
## 1879 2.3978953 0.0000000 0
## 1880 2.3025851 0.0000000 0
## 1882 0.6931472 0.0000000 0
## 1883 2.3978953 0.0000000 0
## 1885 2.1972246 1.0986123 0
## 1886 1.9459101 2.0794415 0
## 1887 2.6390573 0.0000000 40
## 1888 2.8332133 0.6931472 0
## 1889 1.9459101 0.6931472 88
## 1890 2.3025851 1.0986123 0
## 1891 2.3978953 1.6094379 0
## 1894 2.0794415 0.0000000 0
## 1895 2.6390573 1.0986123 0
## 1896 2.7725887 2.1972246 0
## 1897 0.6931472 1.0986123 0
## 1898 0.6931472 1.3862944 0
## 1899 0.6931472 2.3978953 0
## 1901 2.1972246 0.0000000 36
## 1902 2.3025851 0.0000000 0
## 1904 1.7917595 0.0000000 0
## 1905 0.6931472 1.3862944 0
## 1906 2.0794415 1.0986123 0
## 1907 0.6931472 0.0000000 0
## 1908 2.5649494 1.0986123 0
## 1909 2.3025851 2.0794415 0
## 1910 2.4849066 0.0000000 0
## 1913 0.6931472 2.0794415 0
## 1914 1.9459101 0.0000000 0
## 1915 1.9459101 0.0000000 0
## 1916 1.9459101 1.6094379 0

```

```

## 1917 2.9444390 0.0000000 0
## 1918 2.7080502 2.0794415 0
## 1920 2.1972246 1.0986123 0
## 1921 2.1972246 1.3862944 0
## 1923 2.4849066 1.0986123 0
## 1924 2.4849066 1.6094379 0
## 1925 1.7917595 0.0000000 0
## 1926 1.9459101 1.6094379 0
## 1927 2.8903718 0.0000000 0
## 1928 2.3978953 2.0794415 0
## 1929 1.9459101 1.9459101 43
## 1932 0.6931472 0.0000000 0
## 1933 2.1972246 0.0000000 0
## 1934 0.6931472 0.6931472 44
## 1935 0.6931472 1.3862944 0
## 1936 0.6931472 0.6931472 0
## 1937 2.1972246 0.0000000 0
## 1939 0.6931472 0.6931472 0
## 1940 1.9459101 1.0986123 43
## 1942 2.9957323 1.6094379 0
## 1943 2.4849066 1.7917595 0
## 1944 0.6931472 0.0000000 0
## 1945 0.6931472 0.0000000 0
## 1946 0.6931472 0.0000000 0
## 1947 2.4849066 0.0000000 0
## 1948 2.3025851 0.6931472 0
## 1951 2.9444390 1.9459101 0
## 1952 2.6390573 1.9459101 37
## 1953 0.6931472 0.6931472 0
## 1954 2.3978953 1.3862944 58
## 1955 2.7725887 0.0000000 0
## 1956 0.6931472 1.0986123 0
## 1958 0.6931472 0.0000000 0
## 1959 2.0794415 1.7917595 0
## 1961 0.6931472 0.0000000 0
## 1962 2.1972246 0.0000000 0
## 1963 2.4849066 0.0000000 41
## 1964 2.3025851 1.9459101 0
## 1965 0.6931472 0.0000000 41
## 1966 0.6931472 0.0000000 0
## 1967 0.6931472 1.3862944 51
## 1970 2.7725887 1.3862944 0
## 1971 2.5649494 1.0986123 0
## 1972 2.4849066 1.7917595 0
## 1973 1.7917595 1.9459101 0
## 1974 1.9459101 1.3862944 0
## 1975 0.6931472 0.6931472 0
## 1977 0.6931472 1.6094379 38
## 1978 2.3025851 1.6094379 0
## 1980 2.3978953 0.0000000 0
## 1981 1.3862944 1.0986123 0
## 1982 2.3978953 0.0000000 0
## 1983 0.6931472 1.0986123 0
## 1984 2.3978953 1.6094379 0

```

```

## 1985 0.6931472 2.3025851 0
## 1986 1.9459101 1.6094379 0
## 1989 1.9459101 1.9459101 0
## 1990 0.6931472 0.0000000 41
## 1991 0.6931472 1.7917595 0
## 1992 2.5649494 0.0000000 92
## 1993 2.1972246 0.0000000 0
## 1994 2.7725887 1.9459101 0
## 1996 2.3978953 0.6931472 0
## 1997 1.7917595 0.0000000 0
## 1999 0.6931472 1.0986123 0
## 2000 2.8903718 1.0986123 0
## 2001 2.4849066 0.6931472 0
## 2002 2.1972246 0.0000000 0
## 2003 3.0910425 0.0000000 0
## 2004 2.6390573 1.9459101 0
## 2005 2.8903718 0.0000000 0
## 2008 1.9459101 0.0000000 0
## 2009 2.8903718 0.0000000 0
## 2010 2.1972246 0.6931472 45
## 2011 0.6931472 2.0794415 0
## 2012 0.6931472 1.6094379 0
## 2013 0.6931472 0.6931472 0
## 2015 2.3025851 1.6094379 0
## 2016 2.1972246 0.0000000 0
## 2018 2.0794415 1.6094379 0
## 2019 0.6931472 0.0000000 42
## 2020 0.6931472 0.0000000 186
## 2021 2.1972246 1.3862944 0
## 2022 2.3025851 0.0000000 0
## 2023 2.3025851 0.0000000 0
## 2024 0.6931472 0.0000000 0
## 2027 2.8332133 0.0000000 0
## 2028 2.0794415 0.0000000 0
## 2029 2.6390573 1.7917595 0
## 2030 0.6931472 0.0000000 0
## 2031 2.7725887 1.7917595 0
## 2032 2.1972246 1.6094379 0
## 2034 0.6931472 1.3862944 0
## 2035 2.3025851 1.0986123 76
## 2037 0.6931472 1.3862944 0
## 2038 1.3862944 2.0794415 0
## 2039 2.1972246 2.1972246 0
## 2040 2.7725887 1.3862944 0
## 2041 1.6094379 1.6094379 86
## 2042 0.6931472 0.0000000 0
## 2043 2.4849066 1.0986123 0
## 2046 0.6931472 1.6094379 0
## 2047 0.6931472 2.0794415 0
## 2048 1.9459101 1.3862944 0
## 2049 1.6094379 2.0794415 0
## 2050 2.5649494 1.6094379 45
## 2051 2.1972246 1.6094379 0
## 2053 2.4849066 0.6931472 0

```

```

## 2054 2.1972246 2.3025851 0
## 2056 2.6390573 1.7917595 36
## 2057 2.1972246 1.3862944 0
## 2058 1.9459101 0.0000000 0
## 2059 2.3978953 1.7917595 0
## 2060 2.1972246 2.0794415 0
## 2061 2.0794415 2.0794415 0
## 2062 2.4849066 0.0000000 0
## 2065 2.4849066 0.0000000 0
## 2066 1.0986123 1.0986123 39
## 2067 0.6931472 0.0000000 0
## 2068 2.1972246 0.6931472 0
## 2069 0.6931472 0.0000000 0
## 2070 2.3025851 0.0000000 0
## 2072 2.8332133 2.3025851 132
## 2073 2.0794415 0.0000000 0
## 2075 2.6390573 2.6390573 0
## 2076 0.6931472 0.0000000 88
## 2077 0.6931472 0.6931472 0
## 2078 2.3978953 1.3862944 0
## 2079 3.0910425 0.0000000 0
## 2080 2.3025851 1.7917595 0
## 2081 2.9444390 1.6094379 82
## 2084 2.7080502 0.0000000 0
## 2085 2.3978953 0.6931472 0
## 2086 2.7725887 1.3862944 0
## 2087 2.0794415 0.6931472 0
## 2088 0.6931472 1.6094379 0
## 2089 0.6931472 0.6931472 0
## 2091 0.6931472 1.9459101 0
## 2092 2.5649494 0.6931472 0
## 2094 2.8332133 0.0000000 78
## 2095 3.0445224 1.6094379 0
## 2096 2.1972246 0.6931472 0
## 2097 2.4849066 0.0000000 0
## 2098 2.3978953 1.0986123 54
## 2099 0.6931472 0.6931472 0
## 2100 1.6094379 1.7917595 0
## 2103 1.7917595 1.6094379 0
## 2104 0.6931472 1.6094379 0
## 2105 0.6931472 2.3978953 0
## 2106 0.6931472 1.3862944 0
## 2107 1.9459101 0.6931472 0
## 2108 0.6931472 1.3862944 0
## 2110 0.6931472 0.6931472 0
## 2111 2.0794415 0.6931472 0
## 2113 2.9444390 1.7917595 0
## 2114 2.4849066 2.4849066 0
## 2115 3.2188758 0.0000000 0
## 2116 2.3025851 0.6931472 0
## 2117 0.6931472 0.0000000 117
## 2118 0.6931472 0.0000000 124
## 2119 0.6931472 0.6931472 0
## 2122 2.9444390 0.6931472 0

```

```

## 2123 2.3025851 1.6094379 0
## 2124 0.6931472 1.3862944 0
## 2125 0.6931472 1.3862944 0
## 2126 0.6931472 0.0000000 76
## 2127 2.4849066 0.0000000 0
## 2129 0.6931472 1.9459101 86
## 2130 0.6931472 1.3862944 0
## 2132 2.3025851 2.3025851 0
## 2133 1.9459101 1.3862944 0
## 2134 2.0794415 0.0000000 0
## 2135 2.4849066 0.6931472 0
## 2136 2.4849066 1.6094379 88
## 2137 2.8332133 0.6931472 43
## 2138 0.6931472 0.6931472 0
## 2141 2.4849066 1.0986123 0
## 2142 2.6390573 1.3862944 0
## 2143 2.0794415 0.0000000 0
## 2144 0.6931472 1.3862944 0
## 2145 2.3025851 1.3862944 37
## 2146 1.9459101 0.0000000 56
## 2148 3.0445224 1.7917595 0
## 2149 2.8332133 1.0986123 0
## 2151 2.4849066 2.0794415 0
## 2152 2.3978953 0.0000000 0
## 2153 0.6931472 1.7917595 0
## attr(),"assign")
## [1] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
##
## [[1]]$call
## rlm(formula = fm, data = train_reg)
##
## [[1]]$terms
## TARGET_AMT ~ KIDSDRV + HOMEKIDS + YOJ + BLUEBOOK + OLDCLAIM +
## CLM_FREQ + CAR_AGE + MSTATUS_Yes + CAR_TYPE_Panel.Truck +
## REVOKED_Yes + EDUCATION_.High.School + EDUCATION_Bachelors +
## EDUCATION_z_High.School + yojSquared + bluebook_log + carage_log +
## mvr_pts_log + inter
## attr(),"variables")
## list(TARGET_AMT, KIDSDRV, HOMEKIDS, YOJ, BLUEBOOK, OLDCLAIM,
## CLM_FREQ, CAR_AGE, MSTATUS_Yes, CAR_TYPE_Panel.Truck, REVOKED_Yes,
## EDUCATION_.High.School, EDUCATION_Bachelors, EDUCATION_z_High.School,
## yojSquared, bluebook_log, carage_log, mvr_pts_log, inter)
## attr(),"factors")
## KIDSDRV HOMEKIDS YOJ BLUEBOOK OLDCLAIM CLM_FREQ
## TARGET_AMT 0 0 0 0 0 0
## KIDSDRV 1 0 0 0 0 0
## HOMEKIDS 0 1 0 0 0 0
## YOJ 0 0 1 0 0 0
## BLUEBOOK 0 0 0 1 0 0
## OLDCLAIM 0 0 0 0 1 0
## CLM_FREQ 0 0 0 0 0 1
## CAR_AGE 0 0 0 0 0 0
## MSTATUS_Yes 0 0 0 0 0 0
## CAR_TYPE_Panel.Truck 0 0 0 0 0 0

```

```

## REVOKED_Yes          0      0      0      0      0
## EDUCATION_.High.School 0      0      0      0      0
## EDUCATION_Bachelors   0      0      0      0      0
## EDUCATION_z_High.School 0      0      0      0      0
## yojSquared            0      0      0      0      0
## bluebook_log           0      0      0      0      0
## carage_log              0      0      0      0      0
## mvr_pts_log             0      0      0      0      0
## inter                  0      0      0      0      0
##                               CAR_AGE MSTATUS_Yes CAR_TYPE_Panel.Truck REVOKED_Yes
## TARGET_AMT                0          0          0          0
## KIDSDRV                   0          0          0          0
## HOMEKIDS                  0          0          0          0
## YOJ                        0          0          0          0
## BLUEBOOK                   0          0          0          0
## OLDCLAIM                   0          0          0          0
## CLM_FREQ                   0          0          0          0
## CAR_AGE                     1          0          0          0
## MSTATUS_Yes                 0          1          0          0
## CAR_TYPE_Panel.Truck        0          0          1          0
## REVOKED_Yes                 0          0          0          1
## EDUCATION_.High.School      0          0          0          0
## EDUCATION_Bachelors         0          0          0          0
## EDUCATION_z_High.School     0          0          0          0
## yojSquared                  0          0          0          0
## bluebook_log                 0          0          0          0
## carage_log                   0          0          0          0
## mvr_pts_log                  0          0          0          0
## inter                        0          0          0          0
##                               EDUCATION_.High.School EDUCATION_Bachelors
## TARGET_AMT                   0          0
## KIDSDRV                      0          0
## HOMEKIDS                     0          0
## YOJ                          0          0
## BLUEBOOK                     0          0
## OLDCLAIM                     0          0
## CLM_FREQ                     0          0
## CAR_AGE                      0          0
## MSTATUS_Yes                   0          0
## CAR_TYPE_Panel.Truck          0          0
## REVOKED_Yes                   0          0
## EDUCATION_.High.School        1          0
## EDUCATION_Bachelors          0          1
## EDUCATION_z_High.School       0          0
## yojSquared                    0          0
## bluebook_log                  0          0
## carage_log                     0          0
## mvr_pts_log                   0          0
## inter                         0          0
##                               EDUCATION_z_High.School yojSquared bluebook_log
## TARGET_AMT                   0          0          0
## KIDSDRV                      0          0          0
## HOMEKIDS                     0          0          0
## YOJ                          0          0          0

```

```

## BLUEBOOK                      0          0          0
## OLDCLAIM                       0          0          0
## CLM_FREQ                        0          0          0
## CAR_AGE                         0          0          0
## MSTATUS_Yes                     0          0          0
## CAR_TYPE_Panel.Truck           0          0          0
## REVOKED_Yes                     0          0          0
## EDUCATION_.High.School          0          0          0
## EDUCATION_Bachelors             0          0          0
## EDUCATION_z_High.School         1          0          0
## yojSquared                      0          1          0
## bluebook_log                    0          0          1
## carage_log                      0          0          0
## mvr_pts_log                     0          0          0
## inter                           0          0          0
##                                     carage_log mvr_pts_log inter
## TARGET_AMT                      0          0          0
## KIDSDRV                          0          0          0
## HOMEKIDS                         0          0          0
## YOJ                               0          0          0
## BLUEBOOK                         0          0          0
## OLDCLAIM                         0          0          0
## CLM_FREQ                          0          0          0
## CAR_AGE                           0          0          0
## MSTATUS_Yes                      0          0          0
## CAR_TYPE_Panel.Truck             0          0          0
## REVOKED_Yes                      0          0          0
## EDUCATION_.High.School            0          0          0
## EDUCATION_Bachelors              0          0          0
## EDUCATION_z_High.School           0          0          0
## yojSquared                        0          0          0
## bluebook_log                     0          0          0
## carage_log                        1          0          0
## mvr_pts_log                      0          1          0
## inter                            0          0          1
## attr(term.labels)
## [1] "KIDSDRV"                   "HOMEKIDS"
## [3] "YOJ"                        "BLUEBOOK"
## [5] "OLDCLAIM"                  "CLM_FREQ"
## [7] "CAR_AGE"                   "MSTATUS_Yes"
## [9] "CAR_TYPE_Panel.Truck"      "REVOKED_Yes"
## [11] "EDUCATION_.High.School"   "EDUCATION_Bachelors"
## [13] "EDUCATION_z_High.School"  "yojSquared"
## [15] "bluebook_log"              "carage_log"
## [17] "mvr_pts_log"               "inter"
## attr(order)
## [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## attr(intercept)
## [1] 1
## attr(response)
## [1] 1
## attr(Environment)
## <environment: 0x00000000471a6138>
## attr(predvars)

```

```

## list(TARGET_AMT, KIDSDRV, HOMEKIDS, YOJ, BLUEBOOK, OLDCALL,
##      CLM_FREQ, CAR_AGE, MSTATUS_Yes, CAR_TYPE_Panel.Truck, REVOKED_Yes,
##      EDUCATION_.High.School, EDUCATION_Bachelors, EDUCATION_z_High.School,
##      yojSquared, bluebook_log, carage_log, mvr_pts_log, inter)
## attr(".", "dataClasses")
##           TARGET_AMT          KIDSDRV        HOMEKIDS
##           "numeric"          "numeric"        "numeric"
##           YOJ              BLUEBOOK        OLDCALL
##           "numeric"          "numeric"        "numeric"
##           CLM_FREQ          CAR_AGE         MSTATUS_Yes
##           "numeric"          "numeric"        "numeric"
##           EDUCATION_Panel.Truck    REVOKED_Yes EDUCATION_.High.School
##           "numeric"          "numeric"        "numeric"
##           EDUCATION_Bachelors EDUCATION_z_High.School   yojSquared
##           "numeric"          "numeric"        "numeric"
##           bluebook_log       carage_log       mvr_pts_log
##           "numeric"          "numeric"        "numeric"
##           inter             "numeric"
##           "numeric"
##
## [[1]]$levels
## named list()
##
## [[1]]$model
##   TARGET_AMT KIDSDRV HOMEKIDS YOJ BLUEBOOK OLDCALL CLM_FREQ CAR_AGE
## 1 7.988204 0 1 12 17430 0 0 7
## 3 7.824446 0 0 10 11200 0 0 1
## 4 8.712266 0 0 14 18300 0 0 11
## 5 7.144407 0 0 11 28340 0 0 10
## 6 7.979396 0 0 0 6000 0 0 5
## 7 8.833025 0 1 13 8710 8935 2 1
## 8 8.196161 0 0 13 26560 0 0 1
## 9 8.408717 0 1 9 10030 0 0 1
## 12 7.657755 1 1 14 32340 27877 2 13
## 13 8.169620 1 2 12 14220 0 0 10
## 14 6.763885 0 4 12 6880 7896 3 1
## 15 8.960083 0 0 8 2920 24767 3 10
## 16 8.330382 2 3 11 19510 8890 3 15
## 17 7.771067 1 2 11 1500 0 0 11
## 19 7.210818 0 0 12 9640 1212 1 1
## 20 7.793587 0 0 6 13140 0 0 1
## 22 9.480774 0 0 10 12230 0 0 9
## 23 8.309185 0 0 7 23350 4678 3 17
## 24 8.966739 0 4 0 15090 1631 1 5
## 25 8.205218 0 0 0 12850 0 0 6
## 26 8.541886 0 0 11 12840 1533 2 10
## 27 7.669962 0 0 7 7900 8882 3 5
## 28 7.656337 0 1 8 32690 0 0 18
## 31 7.499423 1 2 11 19750 0 0 9
## 32 9.268038 0 0 0 5700 0 0 1
## 33 8.725507 0 2 15 13130 3622 3 20
## 34 8.494334 1 1 16 15760 1738 2 1
## 35 8.546169 0 3 18 20350 0 0 15
## 36 8.713911 0 0 12 13160 0 0 17

```

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 38 | 7.885705 | 1 | 3 | 0 | 16510 | 17445 | 3 | 1 |
| ## 39 | 8.808817 | 0 | 0 | 15 | 9930 | 0 | 0 | 5 |
| ## 41 | 7.509883 | 0 | 2 | 14 | 12930 | 35666 | 2 | 7 |
| ## 42 | 8.812248 | 3 | 4 | 0 | 1500 | 0 | 0 | 10 |
| ## 43 | 10.888767 | 0 | 3 | 11 | 42550 | 35879 | 1 | 20 |
| ## 44 | 8.356320 | 0 | 0 | 13 | 13850 | 0 | 0 | 7 |
| ## 45 | 8.361007 | 0 | 3 | 14 | 14030 | 0 | 0 | 5 |
| ## 46 | 9.883139 | 0 | 0 | 12 | 14870 | 0 | 0 | 14 |
| ## 47 | 7.914983 | 1 | 1 | 12 | 24130 | 0 | 0 | 16 |
| ## 50 | 8.567696 | 0 | 0 | 11 | 30260 | 0 | 0 | 9 |
| ## 51 | 8.234565 | 2 | 2 | 12 | 7200 | 0 | 0 | 8 |
| ## 52 | 8.380970 | 0 | 0 | 8 | 22450 | 3738 | 1 | 1 |
| ## 53 | 8.616676 | 0 | 0 | 0 | 18150 | 6544 | 1 | 11 |
| ## 54 | 8.907943 | 0 | 0 | 13 | 7650 | 0 | 0 | 9 |
| ## 55 | 7.060466 | 0 | 1 | 9 | 5300 | 7504 | 2 | 20 |
| ## 57 | 8.722906 | 0 | 2 | 8 | 3100 | 10099 | 2 | 5 |
| ## 58 | 6.970730 | 0 | 0 | 13 | 20090 | 10520 | 2 | 14 |
| ## 60 | 6.522093 | 0 | 0 | 12 | 11650 | 10231 | 1 | 1 |
| ## 61 | 7.734996 | 1 | 2 | 12 | 11750 | 9261 | 1 | 12 |
| ## 62 | 8.731498 | 0 | 2 | 4 | 6100 | 5771 | 1 | 1 |
| ## 63 | 8.489205 | 0 | 0 | 12 | 23250 | 5039 | 1 | 18 |
| ## 64 | 9.187649 | 0 | 1 | 9 | 20630 | 7767 | 2 | 1 |
| ## 65 | 8.136811 | 0 | 1 | 8 | 22340 | 4769 | 1 | 1 |
| ## 66 | 8.394573 | 1 | 2 | 0 | 6000 | 41818 | 1 | 1 |
| ## 69 | 8.836374 | 0 | 0 | 12 | 23470 | 41913 | 3 | 15 |
| ## 70 | 8.491875 | 0 | 3 | 14 | 6960 | 0 | 0 | 14 |
| ## 71 | 9.757898 | 0 | 0 | 9 | 28710 | 0 | 0 | 3 |
| ## 72 | 8.593228 | 0 | 2 | 9 | 11480 | 17493 | 4 | 1 |
| ## 73 | 8.521384 | 2 | 2 | 11 | 22920 | 0 | 0 | 10 |
| ## 74 | 8.054840 | 0 | 0 | 7 | 16370 | 3913 | 2 | 1 |
| ## 76 | 7.830426 | 1 | 2 | 13 | 10210 | 0 | 0 | 5 |
| ## 77 | 8.089176 | 0 | 1 | 12 | 5460 | 4188 | 2 | 1 |
| ## 79 | 8.186743 | 0 | 0 | 0 | 8560 | 3769 | 2 | 14 |
| ## 80 | 6.125900 | 0 | 0 | 12 | 7960 | 1079 | 2 | 9 |
| ## 81 | 8.723069 | 0 | 0 | 8 | 29220 | 0 | 0 | 13 |
| ## 82 | 8.417152 | 0 | 1 | 0 | 4100 | 11279 | 3 | 6 |
| ## 83 | 8.407378 | 0 | 2 | 11 | 11510 | 0 | 0 | 10 |
| ## 84 | 7.476472 | 0 | 0 | 8 | 25420 | 0 | 0 | 1 |
| ## 85 | 10.600420 | 0 | 0 | 11 | 24520 | 0 | 0 | 1 |
| ## 88 | 7.408531 | 1 | 2 | 0 | 1500 | 0 | 0 | 1 |
| ## 89 | 9.604651 | 0 | 0 | 13 | 9260 | 39892 | 3 | 1 |
| ## 90 | 7.493317 | 0 | 2 | 13 | 11840 | 44414 | 1 | 1 |
| ## 91 | 8.308199 | 1 | 2 | 11 | 11440 | 981 | 1 | 7 |
| ## 92 | 8.551981 | 0 | 1 | 12 | 22720 | 1992 | 2 | 9 |
| ## 93 | 8.573006 | 1 | 2 | 7 | 7420 | 0 | 0 | 1 |
| ## 95 | 8.009031 | 0 | 0 | 11 | 21840 | 6600 | 2 | 5 |
| ## 96 | 8.279697 | 0 | 0 | 8 | 6400 | 7993 | 1 | 6 |
| ## 98 | 8.527342 | 0 | 0 | 6 | 14060 | 3868 | 1 | 6 |
| ## 99 | 8.739536 | 0 | 0 | 5 | 9360 | 0 | 0 | 1 |
| ## 100 | 7.962764 | 0 | 0 | 5 | 16250 | 0 | 0 | 19 |
| ## 101 | 7.205635 | 0 | 0 | 12 | 4700 | 0 | 0 | 9 |
| ## 102 | 8.516593 | 1 | 2 | 18 | 18960 | 8571 | 1 | 1 |
| ## 103 | 9.066701 | 2 | 3 | 13 | 26280 | 39535 | 3 | 8 |
| ## 104 | 8.691483 | 0 | 0 | 15 | 14360 | 30288 | 1 | 11 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 107 | 8.951440 | 0 | 2 | 9 | 9130 | 32882 | 1 | 1 |
| ## 108 | 9.022685 | 1 | 2 | 7 | 5560 | 2949 | 2 | 1 |
| ## 109 | 7.763446 | 0 | 2 | 17 | 14250 | 0 | 0 | 7 |
| ## 110 | 8.604654 | 1 | 2 | 15 | 10610 | 34041 | 3 | 7 |
| ## 111 | 8.496582 | 0 | 0 | 11 | 10590 | 0 | 0 | 11 |
| ## 112 | 8.305484 | 2 | 3 | 10 | 7790 | 1055 | 4 | 10 |
| ## 114 | 8.527144 | 0 | 3 | 11 | 9170 | 0 | 0 | 8 |
| ## 115 | 8.238008 | 0 | 0 | 15 | 11940 | 4792 | 1 | 11 |
| ## 117 | 10.754884 | 0 | 0 | 13 | 8060 | 0 | 0 | 1 |
| ## 118 | 7.579679 | 0 | 2 | 11 | 20180 | 0 | 0 | 5 |
| ## 119 | 7.459339 | 0 | 1 | 11 | 4050 | 3971 | 2 | 1 |
| ## 120 | 7.253153 | 0 | 0 | 13 | 6500 | 0 | 0 | 1 |
| ## 121 | 6.943122 | 0 | 2 | 13 | 28960 | 1613 | 1 | 8 |
| ## 122 | 8.828641 | 0 | 0 | 6 | 12880 | 0 | 0 | 10 |
| ## 123 | 7.518722 | 0 | 4 | 13 | 9210 | 1271 | 2 | 1 |
| ## 126 | 8.135640 | 0 | 2 | 12 | 5800 | 0 | 0 | 8 |
| ## 127 | 8.876405 | 0 | 0 | 10 | 21660 | 4002 | 2 | 3 |
| ## 128 | 10.177524 | 0 | 0 | 0 | 11610 | 19545 | 1 | 1 |
| ## 129 | 8.651199 | 1 | 2 | 11 | 23280 | 0 | 0 | 5 |
| ## 130 | 6.142047 | 0 | 0 | 15 | 1500 | 5385 | 2 | 7 |
| ## 131 | 8.520388 | 0 | 0 | 10 | 22620 | 37211 | 3 | 10 |
| ## 133 | 7.221105 | 0 | 3 | 15 | 5100 | 0 | 0 | 8 |
| ## 134 | 8.293550 | 0 | 0 | 14 | 14000 | 0 | 0 | 1 |
| ## 136 | 8.436205 | 0 | 2 | 14 | 17680 | 0 | 0 | 10 |
| ## 137 | 9.122830 | 0 | 0 | 9 | 23600 | 0 | 0 | 1 |
| ## 138 | 8.250359 | 0 | 3 | 8 | 7080 | 0 | 0 | 11 |
| ## 139 | 8.254269 | 0 | 1 | 11 | 34640 | 0 | 0 | 8 |
| ## 140 | 7.861342 | 0 | 0 | 8 | 24340 | 4599 | 1 | 4 |
| ## 141 | 8.691345 | 0 | 0 | 12 | 19300 | 4390 | 3 | 6 |
| ## 142 | 10.004883 | 0 | 0 | 11 | 13540 | 8062 | 2 | 1 |
| ## 145 | 9.731519 | 3 | 3 | 16 | 7700 | 8002 | 3 | 1 |
| ## 146 | 8.394573 | 0 | 0 | 10 | 10940 | 0 | 0 | 14 |
| ## 147 | 9.199583 | 0 | 0 | 13 | 16620 | 0 | 0 | 16 |
| ## 148 | 8.611539 | 0 | 1 | 12 | 3900 | 0 | 0 | 16 |
| ## 149 | 8.591558 | 0 | 0 | 13 | 21270 | 2622 | 1 | 20 |
| ## 150 | 8.554489 | 0 | 0 | 11 | 22780 | 8400 | 1 | 22 |
| ## 152 | 7.793174 | 0 | 3 | 11 | 4500 | 3919 | 1 | 20 |
| ## 153 | 10.221793 | 1 | 1 | 9 | 36080 | 0 | 0 | 8 |
| ## 155 | 8.283999 | 0 | 0 | 10 | 6380 | 7223 | 1 | 1 |
| ## 156 | 7.111512 | 0 | 0 | 10 | 18870 | 5581 | 2 | 1 |
| ## 157 | 8.389814 | 0 | 0 | 0 | 2680 | 0 | 0 | 21 |
| ## 158 | 8.652074 | 0 | 0 | 8 | 15810 | 9718 | 3 | 9 |
| ## 159 | 8.735525 | 0 | 0 | 14 | 15040 | 0 | 0 | 16 |
| ## 160 | 7.993654 | 1 | 2 | 10 | 6480 | 9773 | 2 | 5 |
| ## 161 | 8.390496 | 0 | 1 | 14 | 8130 | 5398 | 1 | 1 |
| ## 164 | 6.726858 | 0 | 0 | 9 | 4500 | 5575 | 2 | 10 |
| ## 165 | 8.429018 | 0 | 2 | 11 | 5850 | 31401 | 3 | 1 |
| ## 166 | 9.134539 | 0 | 0 | 3 | 9160 | 0 | 0 | 9 |
| ## 167 | 8.525161 | 0 | 0 | 11 | 8730 | 3979 | 1 | 1 |
| ## 168 | 8.420462 | 0 | 0 | 13 | 12160 | 3211 | 1 | 15 |
| ## 169 | 7.606212 | 0 | 0 | 14 | 8050 | 9231 | 3 | 1 |
| ## 171 | 7.899895 | 2 | 3 | 9 | 10480 | 0 | 0 | 1 |
| ## 172 | 8.715716 | 0 | 1 | 6 | 7100 | 0 | 0 | 1 |
| ## 174 | 7.257003 | 2 | 3 | 16 | 24010 | 4426 | 2 | 5 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 175 | 8.113127 | 0 | 0 | 9 | 25280 | 0 | 0 | 13 |
| ## 176 | 7.851272 | 0 | 1 | 7 | 2190 | 11226 | 1 | 9 |
| ## 177 | 8.032360 | 0 | 0 | 0 | 1500 | 0 | 0 | 7 |
| ## 178 | 8.296796 | 2 | 3 | 10 | 17600 | 16545 | 1 | 4 |
| ## 179 | 8.235095 | 1 | 2 | 15 | 27520 | 35585 | 2 | 18 |
| ## 180 | 8.834628 | 0 | 1 | 13 | 16090 | 0 | 0 | 19 |
| ## 183 | 8.818038 | 0 | 2 | 10 | 20870 | 1994 | 2 | 15 |
| ## 184 | 8.604288 | 0 | 0 | 9 | 36390 | 0 | 0 | 13 |
| ## 185 | 8.831858 | 0 | 0 | 9 | 36690 | 0 | 0 | 16 |
| ## 186 | 9.930129 | 0 | 2 | 14 | 10580 | 0 | 0 | 1 |
| ## 187 | 6.869014 | 0 | 2 | 13 | 5370 | 0 | 0 | 1 |
| ## 188 | 8.398184 | 0 | 0 | 0 | 6400 | 0 | 0 | 9 |
| ## 190 | 7.741968 | 0 | 1 | 13 | 13890 | 15849 | 1 | 10 |
| ## 191 | 8.552753 | 0 | 1 | 11 | 4800 | 0 | 0 | 1 |
| ## 193 | 7.782390 | 0 | 2 | 0 | 10120 | 3928 | 2 | 8 |
| ## 194 | 8.630522 | 0 | 0 | 12 | 6300 | 0 | 0 | 12 |
| ## 195 | 8.096208 | 0 | 2 | 12 | 26520 | 0 | 0 | 13 |
| ## 196 | 8.112827 | 2 | 3 | 14 | 26710 | 0 | 0 | 7 |
| ## 197 | 9.924903 | 2 | 2 | 8 | 9420 | 5858 | 2 | 1 |
| ## 198 | 8.711937 | 0 | 2 | 13 | 11830 | 7645 | 2 | 1 |
| ## 199 | 8.230311 | 1 | 2 | 9 | 25750 | 7637 | 2 | 9 |
| ## 202 | 7.815611 | 0 | 0 | 12 | 12410 | 0 | 0 | 14 |
| ## 203 | 8.421563 | 0 | 3 | 11 | 17370 | 7081 | 3 | 9 |
| ## 204 | 9.196562 | 0 | 0 | 11 | 12770 | 0 | 0 | 1 |
| ## 205 | 7.677864 | 0 | 0 | 14 | 13450 | 30094 | 4 | 4 |
| ## 206 | 7.405310 | 0 | 0 | 10 | 20590 | 0 | 0 | 13 |
| ## 207 | 8.766862 | 0 | 0 | 13 | 30580 | 0 | 0 | 17 |
| ## 209 | 8.402007 | 0 | 0 | 9 | 5540 | 0 | 0 | 1 |
| ## 210 | 8.300280 | 0 | 0 | 0 | 11750 | 0 | 0 | 8 |
| ## 212 | 8.966484 | 0 | 0 | 0 | 6720 | 3029 | 2 | 1 |
| ## 213 | 8.836229 | 0 | 3 | 16 | 10750 | 0 | 0 | 16 |
| ## 214 | 8.098035 | 0 | 0 | 16 | 11810 | 0 | 0 | 15 |
| ## 215 | 8.166500 | 0 | 0 | 0 | 14500 | 9063 | 3 | 9 |
| ## 216 | 8.299286 | 0 | 1 | 12 | 2330 | 0 | 0 | 7 |
| ## 217 | 7.752335 | 0 | 0 | 10 | 9480 | 0 | 0 | 12 |
| ## 218 | 10.304444 | 1 | 4 | 8 | 21520 | 4082 | 2 | 17 |
| ## 221 | 8.377471 | 0 | 2 | 11 | 18130 | 0 | 0 | 10 |
| ## 222 | 9.417400 | 0 | 0 | 0 | 7900 | 23432 | 2 | 8 |
| ## 223 | 8.574896 | 0 | 2 | 0 | 5000 | 4477 | 1 | 13 |
| ## 224 | 8.455105 | 0 | 3 | 0 | 6720 | 52445 | 3 | 6 |
| ## 225 | 8.476163 | 1 | 2 | 0 | 23630 | 10612 | 3 | 8 |
| ## 226 | 8.116417 | 0 | 1 | 11 | 8620 | 5399 | 2 | 1 |
| ## 228 | 8.183397 | 0 | 1 | 10 | 22690 | 4940 | 2 | 8 |
| ## 229 | 7.800163 | 0 | 0 | 16 | 14610 | 0 | 0 | 1 |
| ## 231 | 9.475898 | 1 | 2 | 14 | 6000 | 0 | 0 | 1 |
| ## 232 | 8.640649 | 0 | 4 | 10 | 5850 | 12269 | 1 | 12 |
| ## 233 | 8.479491 | 2 | 2 | 16 | 21880 | 6120 | 2 | 18 |
| ## 234 | 8.612685 | 0 | 0 | 11 | 15080 | 9575 | 1 | 6 |
| ## 235 | 8.022241 | 0 | 0 | 10 | 8590 | 3175 | 2 | 10 |
| ## 236 | 7.314553 | 0 | 2 | 14 | 8930 | 5289 | 1 | 1 |
| ## 237 | 8.772145 | 0 | 0 | 9 | 11230 | 0 | 0 | 1 |
| ## 240 | 8.224164 | 0 | 1 | 13 | 5330 | 17857 | 1 | 1 |
| ## 241 | 8.302514 | 0 | 0 | 10 | 15670 | 7864 | 3 | 9 |
| ## 242 | 7.032624 | 0 | 0 | 14 | 10970 | 0 | 0 | 1 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 243 | 7.969358 | 0 | 2 | 12 | 10320 | 4716 | 1 | 12 |
| ## 244 | 8.704005 | 0 | 1 | 11 | 14580 | 25433 | 3 | 9 |
| ## 245 | 8.207402 | 0 | 5 | 16 | 23450 | 20060 | 1 | 1 |
| ## 247 | 6.936343 | 1 | 1 | 12 | 5400 | 7940 | 3 | 15 |
| ## 248 | 8.545197 | 0 | 2 | 14 | 7760 | 0 | 0 | 1 |
| ## 250 | 10.115370 | 0 | 0 | 10 | 12220 | 25313 | 3 | 8 |
| ## 251 | 10.913785 | 0 | 0 | 9 | 21620 | 0 | 0 | 7 |
| ## 252 | 8.324336 | 0 | 4 | 14 | 1500 | 26686 | 1 | 1 |
| ## 253 | 8.478244 | 0 | 0 | 0 | 5260 | 0 | 0 | 1 |
| ## 254 | 8.435983 | 0 | 0 | 12 | 14160 | 43052 | 2 | 5 |
| ## 255 | 7.061334 | 0 | 0 | 8 | 37180 | 1681 | 1 | 11 |
| ## 256 | 8.616133 | 0 | 2 | 12 | 1500 | 5419 | 1 | 6 |
| ## 259 | 8.036573 | 0 | 3 | 0 | 1500 | 0 | 0 | 8 |
| ## 260 | 8.332068 | 0 | 2 | 13 | 9960 | 0 | 0 | 1 |
| ## 261 | 8.802823 | 1 | 2 | 9 | 18810 | 2415 | 1 | 10 |
| ## 262 | 8.345092 | 0 | 0 | 13 | 13150 | 5484 | 1 | 1 |
| ## 263 | 8.195885 | 0 | 0 | 16 | 4790 | 37285 | 3 | 7 |
| ## 264 | 8.111399 | 0 | 1 | 13 | 19700 | 7276 | 2 | 13 |
| ## 266 | 7.957177 | 0 | 2 | 14 | 20750 | 8403 | 1 | 10 |
| ## 267 | 8.083946 | 0 | 0 | 7 | 11700 | 7228 | 1 | 7 |
| ## 269 | 8.947936 | 2 | 3 | 11 | 19810 | 0 | 0 | 12 |
| ## 270 | 8.295798 | 0 | 1 | 11 | 14790 | 6373 | 1 | 1 |
| ## 271 | 7.693026 | 1 | 2 | 12 | 22010 | 3226 | 2 | 6 |
| ## 272 | 7.466652 | 0 | 0 | 10 | 3800 | 30922 | 2 | 1 |
| ## 273 | 8.437500 | 0 | 2 | 10 | 10650 | 6697 | 3 | 4 |
| ## 274 | 10.009815 | 0 | 0 | 6 | 20730 | 0 | 0 | 1 |
| ## 275 | 10.421999 | 0 | 0 | 11 | 12540 | 0 | 0 | 8 |
| ## 278 | 7.471932 | 0 | 0 | 0 | 8000 | 37129 | 2 | 6 |
| ## 279 | 8.363809 | 0 | 0 | 10 | 12970 | 8917 | 1 | 1 |
| ## 280 | 7.419980 | 0 | 0 | 11 | 19990 | 0 | 0 | 1 |
| ## 281 | 7.617760 | 0 | 2 | 12 | 5100 | 0 | 0 | 1 |
| ## 282 | 7.920447 | 1 | 2 | 0 | 7070 | 982 | 3 | 6 |
| ## 283 | 8.490438 | 0 | 0 | 0 | 23060 | 8752 | 3 | 18 |
| ## 285 | 8.393669 | 0 | 0 | 7 | 6700 | 5524 | 2 | 16 |
| ## 286 | 8.200563 | 1 | 2 | 7 | 14130 | 6265 | 2 | 8 |
| ## 288 | 8.910046 | 2 | 2 | 14 | 22310 | 3816 | 3 | 15 |
| ## 289 | 9.045937 | 0 | 2 | 13 | 16200 | 0 | 0 | 1 |
| ## 290 | 9.007245 | 0 | 0 | 12 | 11100 | 4821 | 3 | 1 |
| ## 291 | 8.300529 | 0 | 2 | 10 | 6640 | 17308 | 3 | 1 |
| ## 292 | 8.300777 | 0 | 1 | 0 | 11630 | 9624 | 2 | 1 |
| ## 293 | 8.143227 | 0 | 3 | 0 | 7810 | 31379 | 5 | 6 |
| ## 294 | 8.717813 | 2 | 2 | 5 | 7160 | 0 | 0 | 1 |
| ## 297 | 9.681110 | 2 | 2 | 17 | 10860 | 7497 | 1 | 1 |
| ## 298 | 6.975414 | 0 | 0 | 13 | 6700 | 5984 | 2 | 16 |
| ## 299 | 8.361007 | 0 | 0 | 10 | 9400 | 9642 | 3 | 5 |
| ## 300 | 8.768885 | 0 | 0 | 11 | 19830 | 0 | 0 | 18 |
| ## 301 | 8.858653 | 0 | 1 | 12 | 17760 | 29471 | 2 | 18 |
| ## 302 | 8.609772 | 0 | 0 | 14 | 10650 | 0 | 0 | 15 |
| ## 304 | 7.826044 | 0 | 0 | 14 | 5390 | 0 | 0 | 16 |
| ## 305 | 8.392763 | 1 | 1 | 13 | 14850 | 35737 | 3 | 17 |
| ## 307 | 8.818926 | 0 | 0 | 12 | 9470 | 0 | 0 | 6 |
| ## 308 | 8.382061 | 0 | 2 | 11 | 9600 | 4111 | 1 | 4 |
| ## 309 | 8.033983 | 0 | 0 | 0 | 12380 | 29865 | 2 | 12 |
| ## 310 | 6.949856 | 0 | 1 | 0 | 7770 | 32562 | 1 | 5 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 311 | 8.682708 | 0 | 1 | 14 | 17710 | 0 | 0 | 8 |
| ## 312 | 8.114624 | 0 | 0 | 16 | 19030 | 8377 | 2 | 7 |
| ## 313 | 8.520587 | 0 | 0 | 10 | 17850 | 27872 | 2 | 1 |
| ## 316 | 8.665958 | 0 | 3 | 11 | 15640 | 7628 | 2 | 8 |
| ## 317 | 8.708970 | 0 | 0 | 13 | 8330 | 3730 | 1 | 1 |
| ## 318 | 8.637019 | 0 | 0 | 0 | 13520 | 28386 | 2 | 1 |
| ## 319 | 7.301148 | 2 | 3 | 12 | 9360 | 1218 | 2 | 10 |
| ## 320 | 9.373303 | 0 | 0 | 10 | 23650 | 0 | 0 | 9 |
| ## 321 | 8.087640 | 0 | 3 | 13 | 12460 | 0 | 0 | 6 |
| ## 323 | 8.588956 | 0 | 0 | 14 | 28170 | 0 | 0 | 18 |
| ## 324 | 6.498282 | 0 | 2 | 14 | 8980 | 4423 | 2 | 12 |
| ## 326 | 8.807771 | 0 | 0 | 10 | 12030 | 29205 | 3 | 13 |
| ## 327 | 8.276649 | 0 | 0 | 12 | 12180 | 3252 | 3 | 4 |
| ## 328 | 7.860571 | 0 | 0 | 12 | 5730 | 0 | 0 | 1 |
| ## 329 | 7.273786 | 0 | 0 | 6 | 7000 | 50111 | 4 | 17 |
| ## 330 | 7.975221 | 0 | 0 | 11 | 15870 | 0 | 0 | 8 |
| ## 331 | 7.995307 | 0 | 0 | 10 | 1500 | 3278 | 1 | 1 |
| ## 332 | 10.577968 | 0 | 0 | 13 | 29020 | 1348 | 3 | 20 |
| ## 335 | 8.376551 | 1 | 2 | 13 | 9830 | 4582 | 2 | 1 |
| ## 336 | 8.573952 | 0 | 3 | 11 | 6920 | 0 | 0 | 1 |
| ## 337 | 8.144389 | 0 | 2 | 0 | 14500 | 0 | 0 | 6 |
| ## 338 | 8.505728 | 0 | 1 | 12 | 11290 | 0 | 0 | 14 |
| ## 339 | 9.802784 | 0 | 0 | 7 | 50970 | 6364 | 1 | 14 |
| ## 340 | 8.574518 | 1 | 2 | 14 | 31390 | 0 | 0 | 14 |
| ## 342 | 7.556951 | 0 | 0 | 16 | 15320 | 0 | 0 | 9 |
| ## 343 | 7.944492 | 0 | 3 | 14 | 5800 | 6755 | 1 | 9 |
| ## 345 | 7.277939 | 0 | 0 | 15 | 20850 | 7946 | 1 | 1 |
| ## 346 | 8.533854 | 0 | 0 | 9 | 33220 | 4678 | 3 | 8 |
| ## 347 | 9.703331 | 0 | 2 | 12 | 18990 | 29781 | 3 | 6 |
| ## 348 | 9.192575 | 0 | 1 | 13 | 20950 | 5737 | 3 | 1 |
| ## 349 | 8.458716 | 0 | 0 | 11 | 11740 | 9883 | 1 | 14 |
| ## 350 | 8.477468 | 0 | 0 | 15 | 6500 | 0 | 0 | 7 |
| ## 351 | 8.721276 | 0 | 0 | 8 | 9530 | 0 | 0 | 17 |
| ## 354 | 6.140693 | 0 | 1 | 12 | 5100 | 4936 | 1 | 1 |
| ## 355 | 7.518607 | 0 | 1 | 13 | 12510 | 0 | 0 | 9 |
| ## 356 | 8.191186 | 0 | 0 | 15 | 21720 | 0 | 0 | 1 |
| ## 357 | 7.911691 | 0 | 0 | 11 | 6610 | 0 | 0 | 13 |
| ## 358 | 7.813592 | 0 | 1 | 2 | 9750 | 6691 | 2 | 9 |
| ## 359 | 8.578476 | 0 | 1 | 14 | 18120 | 6801 | 1 | 7 |
| ## 361 | 10.058174 | 0 | 0 | 12 | 6410 | 46652 | 2 | 1 |
| ## 362 | 9.071265 | 0 | 0 | 0 | 25020 | 44429 | 3 | 7 |
| ## 364 | 7.266827 | 0 | 0 | 12 | 7270 | 0 | 0 | 19 |
| ## 365 | 8.516193 | 0 | 2 | 0 | 4700 | 4196 | 3 | 11 |
| ## 366 | 7.691200 | 0 | 2 | 0 | 16920 | 10264 | 3 | 1 |
| ## 367 | 8.824089 | 0 | 0 | 6 | 19410 | 0 | 0 | 11 |
| ## 368 | 8.133000 | 0 | 0 | 11 | 11590 | 4383 | 4 | 11 |
| ## 369 | 8.977020 | 0 | 3 | 16 | 30050 | 13182 | 1 | 9 |
| ## 370 | 7.426549 | 0 | 0 | 9 | 13270 | 4740 | 2 | 6 |
| ## 373 | 9.856861 | 0 | 4 | 9 | 23270 | 4567 | 1 | 9 |
| ## 374 | 8.962274 | 0 | 0 | 11 | 20660 | 2299 | 3 | 20 |
| ## 375 | 8.530899 | 0 | 0 | 6 | 23360 | 0 | 0 | 1 |
| ## 376 | 8.259717 | 0 | 0 | 12 | 10980 | 0 | 0 | 8 |
| ## 377 | 8.631057 | 0 | 3 | 15 | 19090 | 38774 | 2 | 12 |
| ## 378 | 8.794370 | 0 | 0 | 7 | 27590 | 0 | 0 | 14 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 380 | 7.992945 | 0 | 2 | 16 | 15940 | 17963 | 1 | 1 |
| ## 381 | 8.293299 | 0 | 0 | 12 | 22070 | 0 | 0 | 11 |
| ## 383 | 8.477412 | 0 | 0 | 9 | 19310 | 27959 | 1 | 1 |
| ## 384 | 5.755217 | 1 | 2 | 16 | 33960 | 1200 | 2 | 1 |
| ## 385 | 8.107961 | 0 | 0 | 4 | 13830 | 6556 | 3 | 1 |
| ## 386 | 7.289611 | 0 | 0 | 13 | 35990 | 0 | 0 | 17 |
| ## 387 | 7.695758 | 0 | 0 | 10 | 27620 | 0 | 0 | 6 |
| ## 388 | 8.344267 | 0 | 4 | 12 | 21760 | 9533 | 1 | 17 |
| ## 389 | 6.974479 | 0 | 2 | 16 | 23690 | 9633 | 3 | 1 |
| ## 392 | 8.420903 | 3 | 3 | 14 | 29170 | 0 | 0 | 11 |
| ## 393 | 8.537192 | 0 | 0 | 0 | 12450 | 0 | 0 | 11 |
| ## 394 | 7.299121 | 0 | 0 | 8 | 7920 | 1836 | 1 | 8 |
| ## 395 | 8.520189 | 0 | 0 | 14 | 5200 | 48188 | 3 | 7 |
| ## 396 | 7.427854 | 0 | 3 | 14 | 17200 | 0 | 0 | 1 |
| ## 397 | 7.887584 | 0 | 0 | 0 | 6900 | 0 | 0 | 13 |
| ## 399 | 8.852236 | 0 | 0 | 11 | 13810 | 5558 | 2 | 5 |
| ## 400 | 8.861492 | 0 | 0 | 6 | 12820 | 0 | 0 | 1 |
| ## 402 | 8.143227 | 0 | 3 | 15 | 2270 | 0 | 0 | 5 |
| ## 403 | 8.551595 | 0 | 1 | 3 | 4200 | 3045 | 1 | 1 |
| ## 404 | 7.955074 | 0 | 0 | 15 | 7110 | 0 | 0 | 1 |
| ## 405 | 8.068716 | 0 | 0 | 11 | 12560 | 0 | 0 | 19 |
| ## 406 | 8.233238 | 0 | 0 | 8 | 12700 | 22345 | 2 | 13 |
| ## 407 | 8.104703 | 0 | 2 | 12 | 5020 | 1122 | 4 | 8 |
| ## 408 | 8.456168 | 0 | 1 | 9 | 6390 | 8413 | 2 | 1 |
| ## 411 | 7.908019 | 0 | 0 | 9 | 1500 | 8786 | 2 | 16 |
| ## 412 | 7.555382 | 0 | 1 | 12 | 17130 | 0 | 0 | 14 |
| ## 413 | 8.052933 | 0 | 0 | 10 | 24060 | 5608 | 2 | 6 |
| ## 414 | 8.116118 | 0 | 0 | 12 | 27140 | 0 | 0 | 9 |
| ## 415 | 9.155567 | 0 | 0 | 12 | 15820 | 5697 | 4 | 6 |
| ## 416 | 7.455298 | 0 | 0 | 7 | 6720 | 3050 | 2 | 1 |
| ## 418 | 8.041413 | 0 | 0 | 8 | 21690 | 11742 | 3 | 8 |
| ## 419 | 5.069853 | 0 | 0 | 13 | 2690 | 0 | 0 | 1 |
| ## 421 | 8.015327 | 0 | 0 | 0 | 6430 | 8376 | 1 | 12 |
| ## 422 | 8.233769 | 1 | 2 | 11 | 5600 | 0 | 0 | 6 |
| ## 423 | 7.308543 | 1 | 1 | 0 | 8660 | 0 | 0 | 1 |
| ## 424 | 8.765146 | 0 | 1 | 8 | 10800 | 0 | 0 | 1 |
| ## 425 | 5.934659 | 0 | 3 | 16 | 5840 | 6247 | 4 | 12 |
| ## 426 | 8.138565 | 0 | 0 | 8 | 6960 | 10823 | 3 | 14 |
| ## 427 | 8.224432 | 0 | 1 | 15 | 13140 | 5101 | 3 | 7 |
| ## 430 | 8.859593 | 0 | 0 | 8 | 14180 | 3387 | 2 | 10 |
| ## 431 | 7.648740 | 0 | 0 | 14 | 17500 | 0 | 0 | 7 |
| ## 432 | 7.729735 | 0 | 0 | 11 | 12730 | 6984 | 2 | 8 |
| ## 433 | 6.423247 | 0 | 0 | 8 | 1500 | 3331 | 1 | 1 |
| ## 434 | 9.493773 | 1 | 1 | 12 | 11130 | 0 | 0 | 7 |
| ## 435 | 8.579229 | 1 | 1 | 12 | 13220 | 0 | 0 | 8 |
| ## 437 | 8.325306 | 0 | 2 | 14 | 9170 | 1881 | 1 | 7 |
| ## 438 | 8.979543 | 0 | 0 | 8 | 7960 | 5002 | 1 | 1 |
| ## 440 | 7.626570 | 0 | 0 | 13 | 19210 | 45254 | 2 | 13 |
| ## 441 | 8.668712 | 0 | 0 | 11 | 19120 | 0 | 0 | 1 |
| ## 442 | 8.382289 | 0 | 0 | 13 | 27710 | 0 | 0 | 1 |
| ## 443 | 7.433075 | 0 | 0 | 10 | 6300 | 34506 | 3 | 1 |
| ## 444 | 9.509812 | 0 | 2 | 0 | 8920 | 6031 | 2 | 5 |
| ## 445 | 8.093768 | 0 | 4 | 0 | 5080 | 7784 | 1 | 6 |
| ## 446 | 10.588789 | 0 | 0 | 11 | 7530 | 6566 | 2 | 5 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 449 | 10.392493 | 0 | 0 | 13 | 15280 | 2487 | 1 | 19 |
| ## 450 | 8.872768 | 0 | 0 | 13 | 12610 | 5219 | 3 | 11 |
| ## 451 | 8.783319 | 2 | 2 | 0 | 7100 | 0 | 0 | 9 |
| ## 452 | 7.162397 | 0 | 0 | 12 | 7960 | 0 | 0 | 12 |
| ## 453 | 8.197814 | 0 | 0 | 10 | 9800 | 5229 | 2 | 1 |
| ## 454 | 8.358432 | 0 | 0 | 13 | 17380 | 0 | 0 | 4 |
| ## 456 | 8.463581 | 0 | 1 | 9 | 19900 | 0 | 0 | 6 |
| ## 457 | 9.928643 | 0 | 1 | 11 | 17890 | 0 | 0 | 7 |
| ## 459 | 5.745057 | 1 | 4 | 16 | 11940 | 5326 | 2 | 14 |
| ## 460 | 8.512181 | 0 | 3 | 14 | 4900 | 0 | 0 | 16 |
| ## 461 | 9.163249 | 0 | 0 | 14 | 14920 | 0 | 0 | 11 |
| ## 462 | 7.579168 | 2 | 3 | 0 | 5900 | 0 | 0 | 1 |
| ## 463 | 8.089789 | 0 | 0 | 11 | 14080 | 0 | 0 | 1 |
| ## 464 | 7.956827 | 0 | 0 | 10 | 5300 | 8342 | 1 | 8 |
| ## 465 | 8.866209 | 0 | 2 | 10 | 4900 | 0 | 0 | 6 |
| ## 468 | 8.020928 | 1 | 1 | 11 | 1950 | 30089 | 1 | 1 |
| ## 469 | 8.330140 | 0 | 0 | 13 | 9730 | 41917 | 2 | 1 |
| ## 470 | 8.719807 | 0 | 0 | 16 | 25010 | 39315 | 1 | 9 |
| ## 471 | 8.275122 | 0 | 0 | 12 | 27330 | 0 | 0 | 14 |
| ## 472 | 8.383205 | 0 | 0 | 12 | 11580 | 6712 | 1 | 12 |
| ## 473 | 6.559615 | 0 | 1 | 13 | 9290 | 0 | 0 | 10 |
| ## 475 | 8.637817 | 4 | 5 | 0 | 7920 | 5288 | 2 | 8 |
| ## 476 | 7.198931 | 0 | 0 | 13 | 20800 | 0 | 0 | 5 |
| ## 478 | 7.984122 | 0 | 3 | 12 | 7100 | 0 | 0 | 1 |
| ## 479 | 7.680637 | 0 | 2 | 15 | 11640 | 0 | 0 | 1 |
| ## 480 | 6.561031 | 0 | 1 | 0 | 4500 | 0 | 0 | 5 |
| ## 481 | 6.651969 | 0 | 0 | 13 | 13920 | 3800 | 2 | 10 |
| ## 482 | 8.753371 | 1 | 3 | 13 | 10650 | 27439 | 2 | 1 |
| ## 483 | 8.175829 | 0 | 0 | 11 | 21460 | 1606 | 2 | 6 |
| ## 484 | 8.127995 | 1 | 1 | 11 | 5600 | 37404 | 2 | 11 |
| ## 487 | 7.836765 | 0 | 2 | 12 | 1500 | 3488 | 4 | 7 |
| ## 488 | 10.718660 | 0 | 0 | 10 | 11600 | 0 | 0 | 1 |
| ## 489 | 8.642415 | 0 | 1 | 14 | 12080 | 0 | 0 | 6 |
| ## 490 | 8.671801 | 0 | 0 | 0 | 13440 | 5093 | 2 | 1 |
| ## 491 | 8.018296 | 0 | 0 | 11 | 12910 | 0 | 0 | 6 |
| ## 492 | 8.042378 | 0 | 3 | 0 | 4100 | 2621 | 2 | 8 |
| ## 494 | 8.486115 | 1 | 1 | 8 | 25510 | 0 | 0 | 15 |
| ## 495 | 8.920656 | 1 | 4 | 14 | 5490 | 1423 | 1 | 1 |
| ## 497 | 8.359697 | 0 | 0 | 14 | 10700 | 0 | 0 | 1 |
| ## 498 | 8.807682 | 1 | 1 | 11 | 16720 | 9851 | 3 | 10 |
| ## 499 | 6.944087 | 0 | 0 | 0 | 11020 | 0 | 0 | 7 |
| ## 500 | 7.595890 | 0 | 0 | 11 | 22070 | 0 | 0 | 1 |
| ## 501 | 8.733594 | 0 | 0 | 12 | 9640 | 0 | 0 | 9 |
| ## 502 | 9.870531 | 0 | 0 | 8 | 19820 | 0 | 0 | 7 |
| ## 503 | 8.497603 | 0 | 0 | 14 | 25250 | 0 | 0 | 1 |
| ## 506 | 7.929126 | 0 | 0 | 11 | 11170 | 0 | 0 | 8 |
| ## 507 | 8.365905 | 0 | 0 | 10 | 6700 | 4824 | 3 | 11 |
| ## 508 | 7.838343 | 1 | 2 | 15 | 15110 | 3795 | 3 | 12 |
| ## 509 | 8.652248 | 0 | 0 | 4 | 7020 | 0 | 0 | 16 |
| ## 510 | 5.821579 | 0 | 0 | 12 | 19920 | 0 | 0 | 11 |
| ## 511 | 7.721792 | 0 | 0 | 15 | 12340 | 33089 | 3 | 4 |
| ## 513 | 8.293299 | 0 | 2 | 13 | 4200 | 25081 | 2 | 1 |
| ## 514 | 9.047351 | 0 | 0 | 0 | 6480 | 4400 | 1 | 8 |
| ## 516 | 9.147188 | 2 | 2 | 0 | 5300 | 0 | 0 | 1 |

| | | | | | | | | |
|--------|----------|---|---|----|-------|-------|---|----|
| ## 517 | 8.349721 | 0 | 0 | 5 | 4780 | 2168 | 2 | 6 |
| ## 518 | 8.540910 | 0 | 0 | 10 | 10360 | 7333 | 1 | 1 |
| ## 519 | 8.819813 | 3 | 4 | 10 | 28870 | 1449 | 2 | 25 |
| ## 520 | 8.253228 | 0 | 0 | 10 | 22010 | 31039 | 2 | 9 |
| ## 521 | 7.834788 | 0 | 0 | 13 | 10260 | 7105 | 2 | 1 |
| ## 522 | 9.901997 | 0 | 1 | 9 | 37720 | 0 | 0 | 1 |
| ## 525 | 8.351375 | 0 | 3 | 16 | 5060 | 24208 | 1 | 1 |
| ## 526 | 9.000536 | 0 | 3 | 11 | 9990 | 0 | 0 | 1 |
| ## 527 | 8.717846 | 0 | 3 | 15 | 15270 | 0 | 0 | 16 |
| ## 528 | 8.583355 | 1 | 1 | 7 | 27420 | 0 | 0 | 11 |
| ## 529 | 8.610319 | 0 | 0 | 13 | 10060 | 8636 | 3 | 7 |
| ## 530 | 8.522579 | 0 | 2 | 14 | 9840 | 3771 | 3 | 1 |
| ## 532 | 8.064636 | 0 | 0 | 11 | 17020 | 4538 | 2 | 10 |
| ## 533 | 8.142936 | 1 | 2 | 13 | 15500 | 8385 | 1 | 12 |
| ## 535 | 8.225771 | 0 | 0 | 0 | 7500 | 8739 | 1 | 1 |
| ## 536 | 8.051978 | 0 | 0 | 10 | 10770 | 9230 | 1 | 7 |
| ## 537 | 8.407825 | 0 | 2 | 10 | 13670 | 4318 | 1 | 7 |
| ## 538 | 8.361241 | 0 | 0 | 14 | 14860 | 0 | 0 | 9 |
| ## 539 | 8.626227 | 3 | 3 | 10 | 9950 | 0 | 0 | 1 |
| ## 540 | 8.646817 | 0 | 1 | 11 | 1500 | 0 | 0 | 7 |
| ## 541 | 8.750841 | 0 | 0 | 11 | 7900 | 10942 | 2 | 11 |
| ## 544 | 5.685893 | 0 | 0 | 9 | 11880 | 0 | 0 | 12 |
| ## 545 | 7.156956 | 0 | 1 | 10 | 19680 | 0 | 0 | 17 |
| ## 546 | 8.422883 | 0 | 1 | 11 | 17360 | 8153 | 1 | 1 |
| ## 547 | 8.054840 | 0 | 0 | 0 | 41470 | 1797 | 3 | 13 |
| ## 548 | 8.486575 | 0 | 0 | 11 | 14690 | 0 | 0 | 1 |
| ## 549 | 8.865594 | 0 | 0 | 11 | 17000 | 0 | 0 | 14 |
| ## 551 | 8.380457 | 0 | 0 | 10 | 18090 | 0 | 0 | 12 |
| ## 552 | 6.390241 | 0 | 0 | 9 | 20330 | 0 | 0 | 1 |
| ## 554 | 7.656810 | 0 | 0 | 9 | 17680 | 7274 | 3 | 18 |
| ## 555 | 8.008698 | 0 | 0 | 7 | 11510 | 981 | 3 | 1 |
| ## 556 | 8.222822 | 0 | 0 | 8 | 20770 | 0 | 0 | 19 |
| ## 557 | 7.844331 | 0 | 0 | 10 | 17850 | 8579 | 2 | 7 |
| ## 558 | 7.094652 | 0 | 1 | 12 | 4900 | 0 | 0 | 6 |
| ## 559 | 8.228978 | 0 | 2 | 12 | 4000 | 23451 | 2 | 8 |
| ## 560 | 8.416046 | 0 | 0 | 7 | 14500 | 9583 | 1 | 12 |
| ## 563 | 7.473069 | 1 | 1 | 8 | 30790 | 11692 | 1 | 17 |
| ## 564 | 8.292298 | 0 | 0 | 7 | 11180 | 4839 | 3 | 15 |
| ## 565 | 7.886081 | 0 | 2 | 16 | 16400 | 0 | 0 | 1 |
| ## 566 | 9.064308 | 0 | 1 | 14 | 12690 | 21525 | 2 | 1 |
| ## 567 | 7.645398 | 0 | 1 | 0 | 10510 | 4422 | 3 | 1 |
| ## 568 | 8.132706 | 0 | 0 | 11 | 13070 | 2932 | 3 | 13 |
| ## 570 | 9.083897 | 0 | 0 | 10 | 8360 | 17775 | 2 | 11 |
| ## 571 | 7.876638 | 0 | 3 | 5 | 4900 | 0 | 0 | 9 |
| ## 573 | 8.160804 | 0 | 0 | 12 | 8510 | 0 | 0 | 1 |
| ## 574 | 8.307953 | 0 | 0 | 7 | 15820 | 0 | 0 | 1 |
| ## 575 | 8.254789 | 0 | 0 | 12 | 11120 | 30981 | 2 | 1 |
| ## 576 | 8.822764 | 0 | 0 | 15 | 16800 | 1191 | 3 | 12 |
| ## 577 | 8.458504 | 0 | 0 | 13 | 6080 | 25622 | 1 | 9 |
| ## 578 | 6.697034 | 1 | 2 | 11 | 16780 | 3997 | 3 | 1 |
| ## 579 | 8.236421 | 0 | 0 | 9 | 20410 | 0 | 0 | 8 |
| ## 582 | 8.183397 | 0 | 4 | 12 | 1720 | 0 | 0 | 1 |
| ## 583 | 7.952615 | 0 | 0 | 6 | 12850 | 5863 | 3 | 21 |
| ## 584 | 9.117896 | 0 | 1 | 11 | 3770 | 5581 | 3 | 10 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 585 | 7.229114 | 0 | 0 | 12 | 9580 | 4253 | 1 | 1 |
| ## 586 | 8.617039 | 0 | 0 | 11 | 25700 | 0 | 0 | 1 |
| ## 587 | 8.656085 | 0 | 0 | 8 | 9350 | 4265 | 1 | 10 |
| ## 589 | 8.519790 | 0 | 0 | 11 | 8530 | 743 | 2 | 1 |
| ## 590 | 7.831617 | 0 | 0 | 12 | 7410 | 0 | 0 | 11 |
| ## 592 | 9.220933 | 0 | 0 | 14 | 20400 | 0 | 0 | 17 |
| ## 593 | 8.529319 | 0 | 0 | 14 | 10060 | 4478 | 3 | 1 |
| ## 594 | 8.073091 | 0 | 2 | 14 | 14340 | 7986 | 2 | 7 |
| ## 595 | 7.819636 | 0 | 0 | 11 | 16940 | 0 | 0 | 17 |
| ## 596 | 7.914577 | 0 | 0 | 12 | 5500 | 7756 | 2 | 20 |
| ## 597 | 8.591744 | 0 | 0 | 0 | 5600 | 5020 | 3 | 11 |
| ## 598 | 8.832734 | 0 | 0 | 14 | 8740 | 7153 | 1 | 5 |
| ## 601 | 6.274762 | 0 | 0 | 15 | 18070 | 0 | 0 | 9 |
| ## 602 | 10.077666 | 0 | 2 | 13 | 25830 | 31687 | 2 | 10 |
| ## 603 | 7.766417 | 1 | 1 | 10 | 1500 | 0 | 0 | 15 |
| ## 604 | 8.776476 | 0 | 0 | 0 | 29330 | 9512 | 2 | 1 |
| ## 605 | 8.521384 | 0 | 0 | 9 | 9430 | 1524 | 1 | 12 |
| ## 606 | 8.257645 | 0 | 0 | 13 | 21750 | 0 | 0 | 17 |
| ## 608 | 6.981006 | 1 | 3 | 0 | 6580 | 0 | 0 | 1 |
| ## 609 | 8.088562 | 0 | 0 | 9 | 11910 | 9868 | 1 | 18 |
| ## 611 | 9.091106 | 3 | 3 | 14 | 9830 | 5957 | 3 | 19 |
| ## 612 | 8.496174 | 0 | 0 | 12 | 13390 | 0 | 0 | 17 |
| ## 613 | 7.830823 | 0 | 0 | 13 | 14760 | 0 | 0 | 5 |
| ## 614 | 7.829233 | 3 | 3 | 12 | 21200 | 39717 | 3 | 1 |
| ## 615 | 8.330382 | 0 | 3 | 16 | 16310 | 0 | 0 | 12 |
| ## 616 | 7.273093 | 0 | 0 | 11 | 31210 | 6978 | 2 | 1 |
| ## 617 | 8.558527 | 1 | 1 | 6 | 1500 | 25188 | 2 | 1 |
| ## 620 | 9.074177 | 0 | 0 | 10 | 11370 | 21229 | 2 | 8 |
| ## 621 | 8.207129 | 0 | 0 | 9 | 21190 | 3653 | 3 | 5 |
| ## 622 | 9.721826 | 3 | 3 | 14 | 15310 | 6455 | 1 | 7 |
| ## 623 | 8.518193 | 0 | 0 | 9 | 14920 | 3117 | 4 | 12 |
| ## 624 | 8.008033 | 0 | 0 | 8 | 4600 | 0 | 0 | 1 |
| ## 625 | 8.147867 | 0 | 0 | 10 | 31120 | 23078 | 2 | 15 |
| ## 627 | 8.503703 | 0 | 0 | 13 | 6200 | 0 | 0 | 1 |
| ## 628 | 7.739359 | 0 | 0 | 8 | 41570 | 10584 | 2 | 10 |
| ## 630 | 6.218600 | 0 | 0 | 12 | 6600 | 0 | 0 | 1 |
| ## 631 | 8.350902 | 0 | 1 | 12 | 24910 | 4317 | 1 | 5 |
| ## 632 | 9.120003 | 0 | 0 | 14 | 7230 | 13102 | 2 | 9 |
| ## 633 | 7.956477 | 0 | 0 | 0 | 19630 | 6061 | 2 | 1 |
| ## 634 | 8.113726 | 3 | 3 | 13 | 28600 | 1858 | 4 | 7 |
| ## 635 | 8.502283 | 0 | 0 | 0 | 5900 | 33385 | 2 | 1 |
| ## 636 | 8.099251 | 1 | 1 | 10 | 18050 | 3728 | 1 | 1 |
| ## 639 | 8.821732 | 0 | 0 | 11 | 9620 | 7414 | 1 | 8 |
| ## 640 | 11.208890 | 0 | 0 | 7 | 21460 | 0 | 0 | 7 |
| ## 641 | 8.268988 | 0 | 0 | 15 | 10000 | 0 | 0 | 23 |
| ## 642 | 6.887553 | 0 | 2 | 0 | 4500 | 0 | 0 | 8 |
| ## 643 | 8.907206 | 0 | 0 | 9 | 18730 | 32593 | 2 | 12 |
| ## 644 | 8.575651 | 1 | 2 | 13 | 18910 | 0 | 0 | 9 |
| ## 646 | 7.853216 | 0 | 0 | 10 | 19300 | 7291 | 2 | 13 |
| ## 647 | 8.503094 | 1 | 1 | 10 | 11550 | 43863 | 1 | 12 |
| ## 649 | 9.031572 | 0 | 1 | 10 | 10650 | 32044 | 1 | 8 |
| ## 650 | 8.512984 | 0 | 3 | 0 | 4800 | 0 | 0 | 1 |
| ## 651 | 10.836005 | 1 | 2 | 13 | 9200 | 3255 | 1 | 1 |
| ## 652 | 7.964503 | 0 | 1 | 10 | 6190 | 5900 | 1 | 1 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 653 | 8.674710 | 0 | 2 | 14 | 13200 | 0 | 0 | 1 |
| ## 654 | 8.705331 | 0 | 0 | 11 | 26180 | 3090 | 2 | 1 |
| ## 655 | 8.725182 | 0 | 0 | 11 | 12270 | 5722 | 2 | 1 |
| ## 658 | 10.011650 | 0 | 3 | 0 | 15990 | 0 | 0 | 6 |
| ## 659 | 7.911691 | 0 | 1 | 0 | 1500 | 0 | 0 | 1 |
| ## 660 | 7.134094 | 0 | 2 | 11 | 6790 | 16816 | 1 | 7 |
| ## 661 | 8.813736 | 1 | 2 | 11 | 22230 | 10064 | 2 | 21 |
| ## 662 | 10.375333 | 0 | 0 | 8 | 14350 | 0 | 0 | 16 |
| ## 663 | 7.775534 | 0 | 0 | 12 | 9370 | 37412 | 1 | 1 |
| ## 665 | 8.693329 | 0 | 0 | 5 | 5480 | 6350 | 1 | 1 |
| ## 666 | 10.623200 | 0 | 0 | 9 | 24920 | 6902 | 1 | 11 |
| ## 668 | 7.841886 | 0 | 0 | 17 | 15960 | 0 | 0 | 14 |
| ## 669 | 8.438799 | 0 | 0 | 13 | 15360 | 0 | 0 | 5 |
| ## 670 | 7.619233 | 1 | 2 | 12 | 14650 | 0 | 0 | 1 |
| ## 671 | 8.785998 | 0 | 0 | 12 | 11700 | 712 | 1 | 8 |
| ## 672 | 8.267962 | 2 | 3 | 14 | 10460 | 0 | 0 | 6 |
| ## 673 | 8.718173 | 0 | 0 | 13 | 17290 | 46761 | 1 | 5 |
| ## 674 | 8.466110 | 0 | 0 | 3 | 20860 | 6038 | 1 | 12 |
| ## 677 | 8.459564 | 0 | 0 | 9 | 25640 | 0 | 0 | 1 |
| ## 678 | 7.863651 | 0 | 0 | 8 | 18400 | 0 | 0 | 9 |
| ## 679 | 9.896794 | 0 | 0 | 12 | 37550 | 0 | 0 | 14 |
| ## 680 | 8.276140 | 2 | 2 | 7 | 24730 | 0 | 0 | 12 |
| ## 681 | 10.721912 | 0 | 3 | 15 | 11470 | 2248 | 3 | 8 |
| ## 682 | 8.367997 | 0 | 1 | 11 | 13030 | 0 | 0 | 6 |
| ## 684 | 9.070765 | 0 | 1 | 12 | 15110 | 0 | 0 | 1 |
| ## 685 | 8.545392 | 1 | 2 | 11 | 9390 | 0 | 0 | 1 |
| ## 687 | 7.946971 | 1 | 2 | 0 | 5920 | 0 | 0 | 6 |
| ## 688 | 7.793174 | 2 | 3 | 8 | 5400 | 0 | 0 | 15 |
| ## 689 | 8.461469 | 0 | 1 | 12 | 8900 | 0 | 0 | 1 |
| ## 690 | 8.627482 | 0 | 2 | 12 | 1500 | 0 | 0 | 1 |
| ## 691 | 8.894670 | 0 | 0 | 0 | 4230 | 0 | 0 | 7 |
| ## 692 | 8.745762 | 0 | 0 | 15 | 11250 | 8057 | 2 | 6 |
| ## 693 | 7.833600 | 2 | 3 | 16 | 15750 | 0 | 0 | 7 |
| ## 696 | 8.534837 | 0 | 2 | 0 | 1500 | 3564 | 2 | 10 |
| ## 697 | 8.090096 | 0 | 0 | 9 | 13460 | 7250 | 3 | 5 |
| ## 698 | 8.669399 | 0 | 0 | 14 | 17450 | 0 | 0 | 8 |
| ## 699 | 8.413165 | 0 | 0 | 13 | 18240 | 6863 | 1 | 1 |
| ## 700 | 8.083946 | 0 | 0 | 14 | 15570 | 3636 | 3 | 1 |
| ## 701 | 8.085179 | 0 | 3 | 12 | 7130 | 0 | 0 | 1 |
| ## 703 | 8.202756 | 1 | 1 | 9 | 20800 | 27444 | 1 | 9 |
| ## 704 | 7.310550 | 1 | 2 | 8 | 10700 | 0 | 0 | 9 |
| ## 706 | 8.790421 | 0 | 0 | 9 | 26570 | 0 | 0 | 15 |
| ## 707 | 8.207129 | 0 | 3 | 11 | 9610 | 2468 | 1 | 1 |
| ## 708 | 9.398652 | 0 | 0 | 8 | 11530 | 2333 | 4 | 9 |
| ## 709 | 8.498826 | 1 | 2 | 15 | 31540 | 0 | 0 | 1 |
| ## 710 | 8.791942 | 0 | 0 | 10 | 13070 | 7999 | 2 | 4 |
| ## 711 | 8.276395 | 0 | 0 | 11 | 23780 | 7367 | 1 | 13 |
| ## 712 | 8.794370 | 0 | 1 | 11 | 22000 | 5396 | 2 | 7 |
| ## 715 | 7.909489 | 2 | 2 | 15 | 24180 | 10877 | 1 | 25 |
| ## 716 | 8.415603 | 0 | 0 | 13 | 10730 | 0 | 0 | 14 |
| ## 717 | 8.477412 | 0 | 0 | 14 | 8800 | 3338 | 3 | 20 |
| ## 718 | 8.053887 | 0 | 2 | 13 | 4850 | 0 | 0 | 1 |
| ## 719 | 7.127279 | 1 | 2 | 11 | 1500 | 0 | 0 | 1 |
| ## 720 | 6.866933 | 0 | 1 | 0 | 5000 | 5456 | 3 | 9 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 722 | 7.334982 | 0 | 0 | 15 | 14670 | 0 | 0 | 1 |
| ## 723 | 7.373190 | 0 | 0 | 12 | 12090 | 10024 | 2 | 1 |
| ## 725 | 8.298291 | 2 | 3 | 14 | 26940 | 0 | 0 | 11 |
| ## 726 | 8.696510 | 0 | 0 | 0 | 6900 | 42642 | 1 | 1 |
| ## 727 | 8.216628 | 3 | 3 | 0 | 5800 | 0 | 0 | 11 |
| ## 728 | 8.890330 | 0 | 0 | 15 | 16080 | 5935 | 1 | 1 |
| ## 729 | 9.125545 | 0 | 0 | 11 | 19960 | 8306 | 3 | 18 |
| ## 730 | 7.195187 | 0 | 1 | 14 | 10490 | 41137 | 1 | 11 |
| ## 731 | 8.746716 | 0 | 0 | 14 | 48380 | 0 | 0 | 20 |
| ## 734 | 7.791936 | 0 | 3 | 14 | 12580 | 0 | 0 | 1 |
| ## 735 | 8.833025 | 0 | 0 | 10 | 14310 | 8013 | 1 | 18 |
| ## 736 | 8.116118 | 1 | 3 | 10 | 3440 | 6986 | 3 | 14 |
| ## 737 | 7.752335 | 0 | 1 | 0 | 21620 | 6259 | 1 | 1 |
| ## 738 | 7.522941 | 0 | 0 | 8 | 21930 | 6413 | 2 | 19 |
| ## 739 | 9.743489 | 0 | 1 | 9 | 26370 | 0 | 0 | 3 |
| ## 741 | 6.752270 | 0 | 0 | 10 | 5600 | 0 | 0 | 10 |
| ## 742 | 9.176040 | 0 | 0 | 13 | 27570 | 1451 | 4 | 1 |
| ## 744 | 7.474205 | 0 | 0 | 10 | 23630 | 8599 | 3 | 13 |
| ## 745 | 8.124151 | 0 | 0 | 4 | 1500 | 8618 | 4 | 1 |
| ## 746 | 7.396335 | 1 | 3 | 0 | 6410 | 0 | 0 | 1 |
| ## 747 | 8.624612 | 0 | 0 | 9 | 6620 | 3627 | 1 | 1 |
| ## 748 | 7.514255 | 0 | 0 | 11 | 7060 | 1757 | 2 | 6 |
| ## 749 | 7.986165 | 0 | 2 | 10 | 6750 | 582 | 3 | 10 |
| ## 750 | 8.397508 | 0 | 1 | 0 | 1500 | 6755 | 2 | 1 |
| ## 753 | 9.224785 | 0 | 0 | 11 | 18000 | 4263 | 1 | 1 |
| ## 754 | 8.361942 | 0 | 0 | 14 | 18150 | 1380 | 3 | 10 |
| ## 755 | 10.295960 | 0 | 0 | 13 | 10830 | 6170 | 2 | 10 |
| ## 756 | 7.266129 | 0 | 0 | 0 | 5990 | 0 | 0 | 1 |
| ## 757 | 7.908980 | 0 | 0 | 11 | 7180 | 0 | 0 | 10 |
| ## 758 | 8.614138 | 0 | 0 | 12 | 3320 | 7499 | 2 | 7 |
| ## 760 | 9.846033 | 0 | 1 | 11 | 34880 | 46912 | 1 | 9 |
| ## 761 | 8.065579 | 0 | 2 | 13 | 11010 | 3603 | 1 | 6 |
| ## 763 | 8.707814 | 0 | 3 | 17 | 8580 | 1143 | 1 | 7 |
| ## 764 | 7.242798 | 0 | 1 | 8 | 14460 | 31073 | 1 | 1 |
| ## 765 | 8.078688 | 0 | 1 | 10 | 5760 | 3409 | 2 | 10 |
| ## 766 | 8.730367 | 0 | 3 | 6 | 4380 | 11027 | 3 | 16 |
| ## 767 | 7.664816 | 0 | 2 | 19 | 17790 | 0 | 0 | 1 |
| ## 768 | 9.892655 | 2 | 3 | 12 | 8030 | 0 | 0 | 1 |
| ## 769 | 8.179760 | 0 | 0 | 0 | 13890 | 1501 | 1 | 4 |
| ## 772 | 6.760415 | 0 | 0 | 8 | 7510 | 0 | 0 | 9 |
| ## 773 | 7.466228 | 0 | 0 | 14 | 17280 | 0 | 0 | 18 |
| ## 774 | 10.300167 | 0 | 1 | 11 | 20090 | 0 | 0 | 1 |
| ## 775 | 6.626676 | 0 | 0 | 10 | 4500 | 6351 | 4 | 8 |
| ## 776 | 8.193953 | 2 | 2 | 10 | 9670 | 2412 | 2 | 10 |
| ## 777 | 7.094235 | 2 | 3 | 8 | 30190 | 0 | 0 | 8 |
| ## 779 | 10.374666 | 0 | 0 | 10 | 23620 | 0 | 0 | 13 |
| ## 780 | 8.090402 | 0 | 0 | 11 | 5950 | 48010 | 2 | 5 |
| ## 782 | 10.712552 | 0 | 0 | 10 | 19430 | 0 | 0 | 7 |
| ## 783 | 8.057694 | 0 | 4 | 14 | 15050 | 3246 | 2 | 2 |
| ## 784 | 7.043160 | 0 | 0 | 10 | 6700 | 0 | 0 | 1 |
| ## 785 | 8.529912 | 0 | 3 | 17 | 8030 | 9937 | 3 | 11 |
| ## 786 | 7.846590 | 0 | 1 | 13 | 16260 | 3416 | 4 | 4 |
| ## 787 | 7.813424 | 0 | 3 | 12 | 9720 | 0 | 0 | 13 |
| ## 788 | 8.486115 | 0 | 0 | 11 | 27210 | 1372 | 2 | 1 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 791 | 7.533694 | 0 | 0 | 14 | 12780 | 5244 | 1 | 10 |
| ## 792 | 7.815207 | 0 | 0 | 13 | 22620 | 4497 | 3 | 12 |
| ## 793 | 8.565983 | 0 | 0 | 9 | 26010 | 0 | 0 | 7 |
| ## 794 | 8.548110 | 0 | 0 | 0 | 14900 | 0 | 0 | 11 |
| ## 795 | 8.112528 | 0 | 0 | 13 | 9860 | 0 | 0 | 7 |
| ## 796 | 7.840313 | 0 | 2 | 0 | 3180 | 25235 | 1 | 13 |
| ## 798 | 7.739794 | 0 | 0 | 5 | 3870 | 3608 | 4 | 1 |
| ## 799 | 8.387085 | 0 | 0 | 15 | 10800 | 7378 | 1 | 4 |
| ## 801 | 8.498010 | 2 | 2 | 10 | 15480 | 0 | 0 | 14 |
| ## 802 | 7.957177 | 0 | 0 | 3 | 11380 | 0 | 0 | 1 |
| ## 803 | 8.970178 | 3 | 4 | 10 | 19810 | 0 | 0 | 8 |
| ## 804 | 7.448916 | 0 | 4 | 0 | 20430 | 0 | 0 | 1 |
| ## 805 | 7.765145 | 0 | 2 | 11 | 3640 | 8037 | 2 | 1 |
| ## 806 | 8.682708 | 0 | 0 | 13 | 11360 | 0 | 0 | 9 |
| ## 807 | 8.200288 | 1 | 2 | 8 | 19880 | 0 | 0 | 13 |
| ## 810 | 10.736117 | 0 | 0 | 14 | 9540 | 0 | 0 | 7 |
| ## 811 | 6.777647 | 0 | 0 | 11 | 10550 | 6730 | 2 | 16 |
| ## 812 | 8.939581 | 2 | 2 | 13 | 11950 | 0 | 0 | 1 |
| ## 813 | 8.303009 | 0 | 1 | 3 | 18250 | 2039 | 2 | 9 |
| ## 814 | 8.528924 | 0 | 3 | 15 | 9130 | 3922 | 1 | 7 |
| ## 815 | 6.898797 | 3 | 3 | 0 | 5800 | 5820 | 3 | 1 |
| ## 817 | 7.714231 | 0 | 3 | 11 | 12950 | 0 | 0 | 1 |
| ## 818 | 8.319717 | 0 | 0 | 12 | 62240 | 0 | 0 | 14 |
| ## 820 | 8.416710 | 0 | 2 | 13 | 12460 | 0 | 0 | 7 |
| ## 821 | 8.214465 | 0 | 0 | 13 | 17930 | 4824 | 2 | 1 |
| ## 822 | 8.882531 | 0 | 3 | 14 | 7390 | 0 | 0 | 6 |
| ## 823 | 7.962067 | 0 | 2 | 17 | 14810 | 0 | 0 | 8 |
| ## 824 | 8.399985 | 0 | 0 | 9 | 9470 | 35070 | 2 | 11 |
| ## 825 | 7.568896 | 0 | 0 | 11 | 11900 | 0 | 0 | 1 |
| ## 826 | 7.620705 | 1 | 1 | 11 | 26620 | 3950 | 3 | 1 |
| ## 829 | 9.574010 | 0 | 1 | 0 | 22160 | 11132 | 2 | 8 |
| ## 830 | 8.019613 | 0 | 0 | 5 | 14870 | 5817 | 2 | 9 |
| ## 831 | 7.983440 | 0 | 0 | 11 | 22610 | 812 | 1 | 1 |
| ## 832 | 8.169336 | 0 | 0 | 8 | 5100 | 0 | 0 | 12 |
| ## 833 | 8.123558 | 0 | 1 | 10 | 24630 | 24546 | 1 | 5 |
| ## 834 | 8.467793 | 0 | 3 | 8 | 24050 | 0 | 0 | 1 |
| ## 836 | 8.410943 | 0 | 0 | 11 | 16350 | 8692 | 2 | 16 |
| ## 837 | 9.010991 | 0 | 0 | 0 | 5600 | 0 | 0 | 9 |
| ## 839 | 7.991592 | 0 | 0 | 0 | 12140 | 0 | 0 | 1 |
| ## 840 | 7.796469 | 0 | 0 | 5 | 12560 | 0 | 0 | 1 |
| ## 841 | 8.682538 | 0 | 0 | 0 | 5800 | 0 | 0 | 1 |
| ## 842 | 7.779885 | 3 | 4 | 13 | 10060 | 27746 | 4 | 7 |
| ## 843 | 8.047829 | 0 | 0 | 11 | 16970 | 0 | 0 | 9 |
| ## 844 | 6.766192 | 0 | 0 | 0 | 6570 | 0 | 0 | 1 |
| ## 845 | 7.666690 | 0 | 1 | 7 | 4960 | 0 | 0 | 8 |
| ## 848 | 7.967280 | 0 | 0 | 0 | 12790 | 4514 | 4 | 18 |
| ## 849 | 9.599358 | 1 | 3 | 5 | 20630 | 6870 | 2 | 8 |
| ## 850 | 6.933423 | 0 | 2 | 10 | 4210 | 0 | 0 | 5 |
| ## 851 | 9.850084 | 0 | 0 | 6 | 12720 | 0 | 0 | 1 |
| ## 852 | 7.280697 | 0 | 3 | 0 | 5800 | 8566 | 2 | 1 |
| ## 853 | 8.107117 | 0 | 0 | 17 | 5340 | 7108 | 2 | 1 |
| ## 855 | 9.076612 | 0 | 1 | 13 | 14360 | 0 | 0 | 1 |
| ## 856 | 8.170469 | 0 | 0 | 11 | 10510 | 38190 | 2 | 12 |
| ## 858 | 10.056365 | 0 | 0 | 12 | 18200 | 8375 | 1 | 10 |

| | | | | | | | | |
|--------|----------|---|---|----|-------|-------|---|----|
| ## 859 | 8.604654 | 0 | 4 | 14 | 20280 | 4162 | 3 | 9 |
| ## 860 | 8.736811 | 0 | 0 | 13 | 15690 | 0 | 0 | 1 |
| ## 861 | 8.452121 | 0 | 0 | 8 | 28000 | 0 | 0 | 6 |
| ## 862 | 6.290376 | 0 | 3 | 14 | 9290 | 4567 | 3 | 1 |
| ## 863 | 8.454466 | 0 | 0 | 12 | 11300 | 2159 | 1 | 9 |
| ## 864 | 7.764296 | 0 | 0 | 10 | 5700 | 0 | 0 | 8 |
| ## 867 | 7.154313 | 1 | 1 | 12 | 11020 | 0 | 0 | 5 |
| ## 868 | 8.008698 | 0 | 0 | 8 | 15570 | 4734 | 2 | 7 |
| ## 869 | 8.420462 | 0 | 1 | 9 | 23910 | 548 | 2 | 12 |
| ## 870 | 7.910957 | 1 | 2 | 14 | 3950 | 0 | 0 | 9 |
| ## 871 | 8.973732 | 0 | 1 | 17 | 6710 | 3545 | 2 | 1 |
| ## 872 | 7.621195 | 0 | 2 | 12 | 14780 | 0 | 0 | 12 |
| ## 874 | 8.700181 | 0 | 0 | 12 | 17980 | 0 | 0 | 16 |
| ## 875 | 7.550135 | 0 | 0 | 12 | 23350 | 0 | 0 | 10 |
| ## 877 | 6.736967 | 0 | 0 | 12 | 18330 | 6690 | 2 | 9 |
| ## 878 | 7.165493 | 1 | 3 | 10 | 15860 | 29536 | 2 | 1 |
| ## 879 | 9.537869 | 0 | 0 | 11 | 10900 | 0 | 0 | 1 |
| ## 880 | 7.102499 | 0 | 0 | 12 | 11030 | 32922 | 3 | 4 |
| ## 881 | 8.837681 | 0 | 2 | 7 | 16320 | 4352 | 3 | 8 |
| ## 882 | 8.341172 | 0 | 0 | 12 | 20360 | 6710 | 1 | 16 |
| ## 883 | 6.916484 | 0 | 0 | 11 | 20690 | 14915 | 1 | 4 |
| ## 886 | 8.001690 | 0 | 2 | 12 | 21480 | 0 | 0 | 17 |
| ## 887 | 7.437206 | 0 | 0 | 15 | 34310 | 4423 | 2 | 12 |
| ## 888 | 8.762959 | 0 | 0 | 8 | 16480 | 2775 | 3 | 1 |
| ## 889 | 8.058011 | 0 | 2 | 15 | 18500 | 7014 | 2 | 11 |
| ## 890 | 8.563313 | 0 | 3 | 16 | 8090 | 4402 | 2 | 1 |
| ## 891 | 8.645762 | 0 | 0 | 13 | 13540 | 10941 | 2 | 20 |
| ## 893 | 8.305237 | 0 | 0 | 0 | 12280 | 7070 | 1 | 10 |
| ## 894 | 9.499414 | 0 | 4 | 15 | 7760 | 3327 | 2 | 11 |
| ## 896 | 6.929968 | 0 | 2 | 14 | 16150 | 6135 | 2 | 6 |
| ## 897 | 8.711773 | 0 | 0 | 13 | 9050 | 974 | 3 | 6 |
| ## 898 | 7.791936 | 0 | 0 | 0 | 17700 | 0 | 0 | 12 |
| ## 899 | 7.969012 | 2 | 2 | 8 | 10850 | 5810 | 3 | 8 |
| ## 900 | 7.570959 | 0 | 1 | 12 | 16980 | 4185 | 3 | 1 |
| ## 901 | 8.620111 | 0 | 0 | 14 | 14300 | 7341 | 1 | 4 |
| ## 902 | 8.306225 | 0 | 0 | 9 | 6400 | 0 | 0 | 1 |
| ## 905 | 8.232706 | 1 | 3 | 16 | 1500 | 0 | 0 | 16 |
| ## 906 | 8.959697 | 0 | 2 | 14 | 9960 | 0 | 0 | 7 |
| ## 907 | 8.035926 | 0 | 0 | 7 | 10190 | 0 | 0 | 8 |
| ## 908 | 7.857481 | 0 | 0 | 13 | 7250 | 0 | 0 | 6 |
| ## 909 | 8.529714 | 0 | 0 | 0 | 24020 | 0 | 0 | 15 |
| ## 910 | 8.676758 | 0 | 1 | 8 | 16500 | 0 | 0 | 6 |
| ## 912 | 8.241176 | 0 | 0 | 14 | 14520 | 0 | 0 | 6 |
| ## 913 | 8.531885 | 2 | 2 | 15 | 21020 | 0 | 0 | 1 |
| ## 915 | 8.637639 | 0 | 3 | 12 | 20770 | 0 | 0 | 1 |
| ## 916 | 6.347389 | 0 | 0 | 9 | 19960 | 3960 | 4 | 9 |
| ## 917 | 8.653820 | 0 | 3 | 12 | 4700 | 0 | 0 | 11 |
| ## 918 | 7.770645 | 0 | 1 | 0 | 4120 | 0 | 0 | 6 |
| ## 919 | 7.999343 | 0 | 2 | 12 | 6360 | 0 | 0 | 5 |
| ## 920 | 6.395262 | 0 | 3 | 14 | 6970 | 0 | 0 | 5 |
| ## 921 | 8.429891 | 0 | 0 | 11 | 14880 | 0 | 0 | 1 |
| ## 924 | 8.429454 | 0 | 1 | 0 | 9270 | 0 | 0 | 10 |
| ## 925 | 8.265393 | 2 | 3 | 9 | 12510 | 0 | 0 | 1 |
| ## 926 | 8.795279 | 0 | 0 | 11 | 18150 | 0 | 0 | 1 |

| | | | | | | | | |
|--------|-----------|---|---|----|-------|-------|---|----|
| ## 927 | 7.777374 | 1 | 2 | 13 | 31960 | 5827 | 3 | 7 |
| ## 928 | 9.852899 | 0 | 0 | 7 | 18270 | 6856 | 1 | 6 |
| ## 929 | 8.273337 | 0 | 0 | 13 | 14330 | 3977 | 3 | 13 |
| ## 931 | 8.553332 | 0 | 0 | 11 | 10930 | 0 | 0 | 1 |
| ## 932 | 8.185071 | 0 | 0 | 14 | 10300 | 5236 | 2 | 6 |
| ## 934 | 8.286017 | 2 | 3 | 15 | 11760 | 11528 | 4 | 16 |
| ## 935 | 9.096836 | 0 | 2 | 0 | 5800 | 5767 | 1 | 6 |
| ## 936 | 8.429236 | 2 | 3 | 13 | 6420 | 8183 | 2 | 1 |
| ## 937 | 7.645398 | 0 | 0 | 13 | 3030 | 0 | 0 | 1 |
| ## 938 | 8.632841 | 0 | 0 | 11 | 11210 | 7759 | 2 | 6 |
| ## 939 | 5.278863 | 3 | 3 | 17 | 14990 | 3826 | 2 | 1 |
| ## 940 | 8.757312 | 1 | 1 | 13 | 7660 | 0 | 0 | 1 |
| ## 943 | 8.139874 | 0 | 3 | 15 | 2440 | 31992 | 1 | 1 |
| ## 944 | 4.688973 | 0 | 0 | 0 | 6200 | 4754 | 2 | 1 |
| ## 945 | 8.313362 | 0 | 1 | 11 | 10440 | 2018 | 3 | 8 |
| ## 946 | 8.368229 | 0 | 1 | 10 | 8260 | 0 | 0 | 1 |
| ## 947 | 4.559831 | 0 | 0 | 10 | 1500 | 2154 | 3 | 1 |
| ## 948 | 7.108244 | 0 | 2 | 12 | 8450 | 2210 | 2 | 5 |
| ## 950 | 7.810758 | 4 | 5 | 0 | 12000 | 0 | 0 | 1 |
| ## 951 | 7.821242 | 0 | 4 | 0 | 4300 | 6905 | 1 | 13 |
| ## 953 | 8.408940 | 0 | 3 | 10 | 25660 | 0 | 0 | 12 |
| ## 954 | 8.209036 | 1 | 2 | 10 | 17290 | 0 | 0 | 18 |
| ## 955 | 7.189168 | 0 | 0 | 9 | 19990 | 0 | 0 | 7 |
| ## 956 | 9.060563 | 0 | 2 | 13 | 17740 | 4500 | 2 | 9 |
| ## 957 | 8.556414 | 0 | 2 | 0 | 11990 | 6867 | 3 | 10 |
| ## 958 | 7.658228 | 0 | 0 | 13 | 21180 | 9637 | 2 | 18 |
| ## 959 | 8.652074 | 0 | 0 | 8 | 2670 | 0 | 0 | 8 |
| ## 962 | 7.902118 | 1 | 3 | 13 | 12760 | 4895 | 2 | 8 |
| ## 963 | 8.253748 | 0 | 0 | 9 | 7000 | 1815 | 4 | 11 |
| ## 964 | 8.401109 | 0 | 0 | 10 | 9540 | 0 | 0 | 1 |
| ## 965 | 8.570165 | 1 | 1 | 13 | 17600 | 5336 | 2 | 1 |
| ## 966 | 8.335911 | 0 | 0 | 12 | 12070 | 597 | 1 | 8 |
| ## 967 | 7.093405 | 0 | 1 | 8 | 25530 | 0 | 0 | 5 |
| ## 969 | 8.094989 | 0 | 0 | 11 | 20100 | 2104 | 3 | 10 |
| ## 970 | 7.793174 | 0 | 0 | 10 | 23140 | 21481 | 4 | 1 |
| ## 972 | 8.769507 | 0 | 1 | 11 | 11840 | 5726 | 2 | 11 |
| ## 973 | 8.095294 | 0 | 0 | 6 | 32040 | 8748 | 2 | 1 |
| ## 974 | 7.783641 | 0 | 0 | 8 | 15360 | 0 | 0 | 7 |
| ## 975 | 8.962264 | 0 | 0 | 13 | 1500 | 57037 | 1 | 11 |
| ## 976 | 8.582232 | 0 | 2 | 0 | 10090 | 6753 | 1 | 6 |
| ## 977 | 7.719130 | 0 | 0 | 15 | 9390 | 10138 | 2 | 15 |
| ## 978 | 8.247744 | 1 | 2 | 0 | 10930 | 0 | 0 | 8 |
| ## 981 | 8.111928 | 0 | 0 | 9 | 27120 | 642 | 2 | 10 |
| ## 982 | 8.265136 | 0 | 1 | 10 | 5200 | 3068 | 2 | 1 |
| ## 983 | 7.984803 | 0 | 0 | 12 | 18080 | 0 | 0 | 1 |
| ## 984 | 8.620472 | 0 | 0 | 13 | 14770 | 0 | 0 | 1 |
| ## 985 | 10.384779 | 0 | 0 | 10 | 15980 | 0 | 0 | 15 |
| ## 986 | 7.952112 | 0 | 0 | 13 | 14730 | 0 | 0 | 17 |
| ## 988 | 8.658635 | 0 | 0 | 0 | 20710 | 8956 | 2 | 1 |
| ## 989 | 7.647786 | 0 | 0 | 9 | 17940 | 0 | 0 | 1 |
| ## 991 | 8.607034 | 2 | 3 | 14 | 17450 | 0 | 0 | 1 |
| ## 992 | 8.843904 | 2 | 2 | 13 | 9980 | 6321 | 3 | 8 |
| ## 993 | 7.975908 | 0 | 2 | 16 | 19300 | 5909 | 3 | 1 |
| ## 994 | 10.191394 | 0 | 0 | 10 | 10410 | 0 | 0 | 7 |

| | | | | | | | | |
|---------|----------|---|---|----|-------|-------|---|----|
| ## 995 | 8.125335 | 0 | 1 | 11 | 5200 | 2605 | 1 | 9 |
| ## 996 | 7.737180 | 0 | 0 | 0 | 5200 | 0 | 0 | 1 |
| ## 997 | 7.160846 | 0 | 1 | 9 | 12780 | 0 | 0 | 1 |
| ## 1000 | 8.303257 | 0 | 0 | 11 | 15330 | 7238 | 3 | 7 |
| ## 1001 | 8.082093 | 0 | 0 | 9 | 13120 | 0 | 0 | 6 |
| ## 1002 | 8.005701 | 1 | 2 | 0 | 8270 | 4765 | 2 | 8 |
| ## 1003 | 8.542081 | 3 | 3 | 0 | 5700 | 0 | 0 | 1 |
| ## 1004 | 7.550661 | 1 | 2 | 9 | 9630 | 49148 | 2 | 8 |
| ## 1005 | 8.704668 | 0 | 0 | 6 | 14080 | 0 | 0 | 1 |
| ## 1007 | 7.456455 | 0 | 3 | 13 | 11190 | 0 | 0 | 9 |
| ## 1008 | 7.494430 | 0 | 0 | 13 | 7200 | 0 | 0 | 1 |
| ## 1010 | 8.045909 | 0 | 0 | 14 | 3790 | 7285 | 1 | 20 |
| ## 1011 | 8.860073 | 0 | 0 | 6 | 28740 | 0 | 0 | 12 |
| ## 1012 | 9.001593 | 0 | 0 | 6 | 7300 | 34123 | 2 | 7 |
| ## 1013 | 8.532082 | 0 | 0 | 0 | 1500 | 6745 | 3 | 7 |
| ## 1014 | 8.480944 | 0 | 0 | 12 | 5930 | 977 | 3 | 5 |
| ## 1015 | 8.487850 | 0 | 0 | 9 | 18540 | 0 | 0 | 10 |
| ## 1016 | 8.010028 | 0 | 1 | 0 | 1500 | 9516 | 3 | 8 |
| ## 1019 | 8.765459 | 0 | 0 | 0 | 25280 | 0 | 0 | 11 |
| ## 1020 | 7.919356 | 0 | 0 | 0 | 12240 | 5093 | 2 | 5 |
| ## 1021 | 8.574518 | 0 | 0 | 12 | 6500 | 3108 | 3 | 1 |
| ## 1022 | 8.456168 | 0 | 0 | 10 | 25760 | 4094 | 1 | 12 |
| ## 1023 | 8.554489 | 0 | 1 | 0 | 5400 | 0 | 0 | 10 |
| ## 1024 | 7.333023 | 0 | 0 | 6 | 26810 | 1249 | 2 | 7 |
| ## 1026 | 6.849066 | 0 | 0 | 12 | 12580 | 0 | 0 | 15 |
| ## 1027 | 7.853605 | 0 | 2 | 10 | 10780 | 31557 | 4 | 10 |
| ## 1029 | 7.693482 | 0 | 0 | 12 | 7720 | 7326 | 1 | 9 |
| ## 1030 | 8.266678 | 1 | 2 | 8 | 8270 | 1944 | 2 | 2 |
| ## 1031 | 8.700348 | 0 | 0 | 12 | 6720 | 0 | 0 | 9 |
| ## 1032 | 8.538563 | 0 | 0 | 10 | 6000 | 0 | 0 | 1 |
| ## 1033 | 6.063183 | 0 | 0 | 6 | 9930 | 0 | 0 | 7 |
| ## 1034 | 7.189922 | 1 | 2 | 9 | 19090 | 2279 | 1 | 1 |
| ## 1035 | 8.532279 | 0 | 1 | 7 | 4300 | 4448 | 3 | 1 |
| ## 1038 | 6.862758 | 1 | 2 | 12 | 4010 | 2244 | 2 | 1 |
| ## 1039 | 8.745083 | 0 | 2 | 10 | 5740 | 6703 | 1 | 12 |
| ## 1040 | 8.512783 | 0 | 0 | 12 | 11760 | 1328 | 1 | 1 |
| ## 1041 | 7.905073 | 0 | 2 | 10 | 9290 | 9635 | 4 | 1 |
| ## 1042 | 7.787382 | 0 | 0 | 11 | 7940 | 2939 | 2 | 15 |
| ## 1043 | 7.764721 | 0 | 3 | 0 | 10460 | 0 | 0 | 18 |
| ## 1045 | 8.882392 | 0 | 0 | 7 | 6200 | 43405 | 2 | 5 |
| ## 1046 | 8.653122 | 1 | 0 | 12 | 9260 | 5458 | 1 | 17 |
| ## 1048 | 8.146709 | 0 | 0 | 10 | 38240 | 0 | 0 | 14 |
| ## 1049 | 8.356085 | 0 | 0 | 12 | 21010 | 0 | 0 | 12 |
| ## 1050 | 9.078750 | 0 | 0 | 15 | 11550 | 5660 | 2 | 1 |
| ## 1051 | 6.873164 | 0 | 0 | 10 | 29540 | 3848 | 1 | 11 |
| ## 1052 | 8.448057 | 0 | 1 | 10 | 5680 | 0 | 0 | 8 |
| ## 1053 | 7.245655 | 0 | 0 | 0 | 8200 | 6934 | 1 | 10 |
| ## 1054 | 6.830874 | 2 | 2 | 15 | 14660 | 0 | 0 | 10 |
| ## 1057 | 8.060224 | 0 | 0 | 8 | 6700 | 0 | 0 | 1 |
| ## 1058 | 8.589886 | 1 | 2 | 7 | 28840 | 0 | 0 | 13 |
| ## 1059 | 8.078998 | 0 | 0 | 16 | 21740 | 0 | 0 | 7 |
| ## 1060 | 8.745284 | 2 | 2 | 8 | 31380 | 0 | 0 | 19 |
| ## 1061 | 6.943122 | 0 | 0 | 13 | 10350 | 2737 | 2 | 10 |
| ## 1062 | 7.513709 | 0 | 3 | 12 | 8450 | 7262 | 2 | 1 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1064 | 8.961834 | 0 | 1 | 12 | 7860 | 8455 | 3 | 6 |
| ## 1065 | 8.386629 | 0 | 1 | 0 | 14260 | 3460 | 3 | 5 |
| ## 1067 | 8.365905 | 1 | 2 | 13 | 27770 | 6557 | 1 | 11 |
| ## 1068 | 10.622872 | 0 | 0 | 12 | 21860 | 0 | 0 | 6 |
| ## 1069 | 9.420470 | 0 | 4 | 14 | 19460 | 0 | 0 | 13 |
| ## 1070 | 8.747670 | 0 | 3 | 9 | 10680 | 0 | 0 | 14 |
| ## 1071 | 8.496636 | 3 | 0 | 10 | 5590 | 0 | 0 | 15 |
| ## 1072 | 8.604105 | 0 | 0 | 10 | 6400 | 3863 | 2 | 15 |
| ## 1073 | 7.881937 | 0 | 0 | 11 | 13190 | 2516 | 4 | 19 |
| ## 1076 | 8.645586 | 0 | 0 | 10 | 9500 | 31664 | 2 | 7 |
| ## 1077 | 7.842279 | 2 | 2 | 10 | 5100 | 7136 | 1 | 1 |
| ## 1078 | 7.045777 | 0 | 0 | 13 | 23170 | 0 | 0 | 1 |
| ## 1079 | 7.574045 | 1 | 1 | 10 | 25590 | 7328 | 1 | 11 |
| ## 1080 | 7.820038 | 0 | 0 | 0 | 17190 | 0 | 0 | 1 |
| ## 1081 | 8.338306 | 0 | 2 | 14 | 4800 | 0 | 0 | 6 |
| ## 1083 | 8.603921 | 0 | 0 | 9 | 25310 | 0 | 0 | 1 |
| ## 1084 | 8.092545 | 0 | 0 | 10 | 10180 | 0 | 0 | 9 |
| ## 1086 | 7.254178 | 0 | 0 | 0 | 12760 | 0 | 0 | 1 |
| ## 1087 | 8.389360 | 0 | 0 | 8 | 10570 | 0 | 0 | 9 |
| ## 1088 | 8.662505 | 0 | 0 | 13 | 15480 | 0 | 0 | 12 |
| ## 1089 | 8.291296 | 0 | 0 | 10 | 19540 | 8212 | 3 | 15 |
| ## 1090 | 7.264030 | 0 | 0 | 10 | 13760 | 0 | 0 | 8 |
| ## 1091 | 8.494948 | 0 | 0 | 10 | 8370 | 2988 | 1 | 12 |
| ## 1092 | 10.736079 | 0 | 2 | 11 | 24280 | 42208 | 1 | 1 |
| ## 1095 | 7.852439 | 0 | 0 | 13 | 2450 | 0 | 0 | 1 |
| ## 1096 | 10.041128 | 0 | 0 | 10 | 26550 | 4843 | 3 | 11 |
| ## 1097 | 7.465083 | 0 | 1 | 15 | 24670 | 0 | 0 | 1 |
| ## 1098 | 9.765648 | 1 | 2 | 13 | 35270 | 0 | 0 | 15 |
| ## 1099 | 8.121777 | 0 | 0 | 8 | 17020 | 0 | 0 | 18 |
| ## 1100 | 6.927558 | 1 | 2 | 17 | 18740 | 5108 | 1 | 15 |
| ## 1102 | 8.236421 | 0 | 0 | 9 | 17270 | 3475 | 1 | 17 |
| ## 1103 | 8.232972 | 0 | 0 | 15 | 16360 | 26281 | 1 | 1 |
| ## 1105 | 8.085179 | 2 | 3 | 12 | 9200 | 3119 | 2 | 1 |
| ## 1106 | 8.437717 | 0 | 2 | 14 | 8420 | 0 | 0 | 6 |
| ## 1107 | 8.206856 | 0 | 2 | 0 | 23570 | 1380 | 3 | 17 |
| ## 1108 | 8.254529 | 0 | 0 | 9 | 25240 | 949 | 2 | 14 |
| ## 1109 | 7.903596 | 0 | 1 | 4 | 8460 | 8844 | 2 | 7 |
| ## 1110 | 8.984819 | 0 | 0 | 10 | 6500 | 27369 | 2 | 12 |
| ## 1111 | 7.691657 | 0 | 0 | 10 | 8830 | 31567 | 2 | 10 |
| ## 1114 | 8.612322 | 0 | 0 | 11 | 8770 | 0 | 0 | 8 |
| ## 1115 | 8.396832 | 0 | 0 | 12 | 8630 | 2499 | 3 | 1 |
| ## 1116 | 8.548692 | 0 | 0 | 12 | 35520 | 4657 | 3 | 1 |
| ## 1117 | 7.882692 | 0 | 3 | 8 | 1500 | 7946 | 3 | 10 |
| ## 1118 | 7.790696 | 0 | 0 | 11 | 18510 | 0 | 0 | 8 |
| ## 1119 | 7.640123 | 0 | 0 | 9 | 5560 | 0 | 0 | 1 |
| ## 1121 | 8.510370 | 0 | 1 | 9 | 12720 | 0 | 0 | 4 |
| ## 1122 | 8.323608 | 0 | 1 | 9 | 5510 | 0 | 0 | 1 |
| ## 1124 | 8.267706 | 0 | 0 | 9 | 5600 | 5171 | 4 | 1 |
| ## 1125 | 7.514255 | 0 | 2 | 10 | 10900 | 0 | 0 | 9 |
| ## 1126 | 8.500047 | 0 | 0 | 12 | 12220 | 6780 | 1 | 10 |
| ## 1127 | 8.616858 | 0 | 0 | 11 | 9960 | 1444 | 1 | 10 |
| ## 1128 | 8.287780 | 0 | 0 | 8 | 17570 | 10200 | 3 | 16 |
| ## 1129 | 8.641886 | 0 | 1 | 10 | 12840 | 0 | 0 | 19 |
| ## 1130 | 8.818961 | 0 | 0 | 9 | 23450 | 8044 | 3 | 14 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1133 | 8.556617 | 0 | 0 | 9 | 5160 | 24822 | 3 | 11 |
| ## 1134 | 7.541991 | 0 | 3 | 2 | 11780 | 16948 | 4 | 1 |
| ## 1135 | 7.288244 | 1 | 2 | 0 | 11190 | 0 | 0 | 7 |
| ## 1136 | 10.082057 | 0 | 1 | 12 | 15990 | 4208 | 1 | 17 |
| ## 1137 | 11.016110 | 1 | 2 | 12 | 32430 | 6514 | 4 | 9 |
| ## 1138 | 8.541886 | 1 | 2 | 8 | 6400 | 0 | 0 | 9 |
| ## 1140 | 8.436634 | 0 | 0 | 11 | 6600 | 8136 | 2 | 5 |
| ## 1141 | 8.029079 | 0 | 1 | 0 | 9370 | 0 | 0 | 1 |
| ## 1143 | 8.946375 | 0 | 0 | 9 | 21510 | 6025 | 3 | 10 |
| ## 1144 | 8.775086 | 0 | 0 | 6 | 17840 | 4002 | 1 | 1 |
| ## 1145 | 6.721426 | 0 | 0 | 12 | 12510 | 6281 | 2 | 16 |
| ## 1146 | 8.498418 | 1 | 1 | 12 | 24870 | 7343 | 4 | 13 |
| ## 1147 | 8.549660 | 0 | 0 | 9 | 22230 | 0 | 0 | 5 |
| ## 1148 | 8.835210 | 0 | 0 | 10 | 16400 | 0 | 0 | 1 |
| ## 1149 | 8.172447 | 1 | 0 | 13 | 16450 | 5105 | 3 | 10 |
| ## 1152 | 6.887553 | 0 | 1 | 10 | 13680 | 4814 | 3 | 1 |
| ## 1153 | 8.137688 | 0 | 2 | 14 | 1500 | 0 | 0 | 7 |
| ## 1154 | 7.401842 | 1 | 2 | 13 | 1500 | 20972 | 2 | 17 |
| ## 1155 | 6.626078 | 0 | 0 | 13 | 6450 | 2755 | 2 | 7 |
| ## 1156 | 7.346010 | 0 | 0 | 0 | 6200 | 0 | 0 | 1 |
| ## 1157 | 8.707814 | 0 | 0 | 11 | 12470 | 3707 | 1 | 7 |
| ## 1159 | 8.708144 | 0 | 0 | 0 | 7710 | 0 | 0 | 11 |
| ## 1160 | 7.955425 | 0 | 1 | 0 | 9560 | 7225 | 3 | 1 |
| ## 1162 | 8.000349 | 1 | 2 | 13 | 9860 | 0 | 0 | 11 |
| ## 1163 | 8.276395 | 0 | 2 | 12 | 13730 | 1150 | 2 | 1 |
| ## 1164 | 8.519790 | 0 | 0 | 7 | 16390 | 4601 | 3 | 13 |
| ## 1165 | 8.924390 | 1 | 1 | 12 | 28730 | 0 | 0 | 10 |
| ## 1166 | 8.782476 | 0 | 1 | 13 | 15260 | 5318 | 3 | 1 |
| ## 1167 | 8.829812 | 0 | 0 | 10 | 5570 | 0 | 0 | 9 |
| ## 1168 | 7.581670 | 1 | 1 | 7 | 25140 | 5795 | 3 | 14 |
| ## 1171 | 7.936303 | 0 | 0 | 11 | 24660 | 43501 | 1 | 9 |
| ## 1172 | 7.309212 | 0 | 3 | 14 | 4300 | 10658 | 2 | 5 |
| ## 1173 | 8.549079 | 0 | 1 | 9 | 26550 | 8673 | 3 | 1 |
| ## 1174 | 8.497806 | 0 | 0 | 15 | 18530 | 2056 | 2 | 1 |
| ## 1175 | 8.620291 | 0 | 1 | 0 | 5200 | 13647 | 2 | 1 |
| ## 1176 | 7.972811 | 0 | 0 | 13 | 30690 | 35095 | 3 | 19 |
| ## 1178 | 8.397283 | 0 | 0 | 14 | 17740 | 6587 | 3 | 1 |
| ## 1179 | 8.667680 | 1 | 2 | 10 | 12320 | 4746 | 2 | 1 |
| ## 1181 | 8.857657 | 0 | 0 | 5 | 19030 | 0 | 0 | 18 |
| ## 1182 | 8.332068 | 0 | 0 | 10 | 34610 | 0 | 0 | 8 |
| ## 1183 | 6.612041 | 0 | 2 | 11 | 22780 | 0 | 0 | 1 |
| ## 1184 | 8.621193 | 0 | 0 | 12 | 21600 | 4075 | 3 | 5 |
| ## 1185 | 8.624791 | 0 | 0 | 10 | 20750 | 0 | 0 | 5 |
| ## 1186 | 7.484930 | 2 | 3 | 10 | 14680 | 8386 | 2 | 18 |
| ## 1187 | 8.176392 | 0 | 2 | 13 | 7460 | 9543 | 3 | 1 |
| ## 1190 | 7.444249 | 0 | 0 | 0 | 10940 | 0 | 0 | 12 |
| ## 1191 | 6.762730 | 1 | 1 | 11 | 8610 | 4321 | 3 | 3 |
| ## 1192 | 7.571474 | 0 | 0 | 11 | 9480 | 3507 | 2 | 1 |
| ## 1193 | 8.420242 | 0 | 2 | 10 | 20120 | 5480 | 4 | 7 |
| ## 1194 | 10.110125 | 2 | 3 | 9 | 5700 | 4332 | 1 | 10 |
| ## 1195 | 8.202208 | 0 | 0 | 12 | 13230 | 4292 | 3 | 12 |
| ## 1197 | 8.534837 | 0 | 0 | 13 | 11480 | 4196 | 2 | 1 |
| ## 1198 | 8.843759 | 1 | 1 | 0 | 1700 | 4543 | 2 | 1 |
| ## 1200 | 10.860217 | 0 | 0 | 9 | 22120 | 654 | 3 | 11 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1201 | 8.666130 | 1 | 1 | 13 | 6040 | 0 | 0 | 1 |
| ## 1202 | 8.237215 | 0 | 0 | 15 | 9800 | 38649 | 3 | 1 |
| ## 1203 | 7.216149 | 0 | 0 | 11 | 26290 | 0 | 0 | 12 |
| ## 1204 | 9.720289 | 0 | 0 | 9 | 28370 | 0 | 0 | 1 |
| ## 1205 | 6.956545 | 0 | 1 | 6 | 14050 | 6890 | 3 | 1 |
| ## 1206 | 10.222723 | 0 | 0 | 7 | 11590 | 0 | 0 | 1 |
| ## 1209 | 7.497728 | 0 | 2 | 8 | 6240 | 0 | 0 | 6 |
| ## 1210 | 9.040856 | 0 | 0 | 0 | 7100 | 0 | 0 | 5 |
| ## 1211 | 8.001690 | 0 | 0 | 0 | 1500 | 0 | 0 | 1 |
| ## 1212 | 8.664060 | 0 | 1 | 10 | 18150 | 5796 | 2 | 17 |
| ## 1213 | 8.703175 | 0 | 0 | 9 | 9040 | 0 | 0 | 11 |
| ## 1214 | 9.111466 | 0 | 1 | 7 | 7950 | 2004 | 3 | 6 |
| ## 1216 | 9.526641 | 0 | 0 | 0 | 8140 | 41175 | 2 | 1 |
| ## 1217 | 7.888710 | 0 | 0 | 10 | 27530 | 0 | 0 | 14 |
| ## 1219 | 8.610137 | 0 | 0 | 14 | 10040 | 6216 | 1 | 3 |
| ## 1220 | 7.464510 | 0 | 0 | 13 | 8540 | 3653 | 1 | 1 |
| ## 1221 | 8.800717 | 0 | 0 | 12 | 9200 | 0 | 0 | 9 |
| ## 1222 | 8.696845 | 0 | 3 | 19 | 8290 | 30192 | 1 | 1 |
| ## 1223 | 8.613412 | 2 | 2 | 12 | 12330 | 652 | 2 | 7 |
| ## 1224 | 7.553074 | 0 | 2 | 0 | 7200 | 0 | 0 | 8 |
| ## 1225 | 8.356790 | 0 | 1 | 12 | 4600 | 0 | 0 | 5 |
| ## 1228 | 8.298540 | 0 | 3 | 12 | 2930 | 0 | 0 | 1 |
| ## 1229 | 8.465057 | 0 | 1 | 9 | 18600 | 0 | 0 | 8 |
| ## 1230 | 8.372399 | 0 | 2 | 11 | 5000 | 7165 | 2 | 1 |
| ## 1231 | 8.755580 | 0 | 0 | 11 | 24300 | 10764 | 2 | 7 |
| ## 1232 | 7.975221 | 1 | 2 | 14 | 43280 | 4422 | 2 | 18 |
| ## 1233 | 8.762333 | 0 | 0 | 12 | 12250 | 0 | 0 | 8 |
| ## 1235 | 8.575651 | 0 | 4 | 13 | 13360 | 4470 | 4 | 1 |
| ## 1236 | 8.187299 | 0 | 0 | 14 | 8670 | 0 | 0 | 1 |
| ## 1238 | 8.622970 | 0 | 2 | 15 | 8940 | 2712 | 2 | 7 |
| ## 1239 | 8.563695 | 0 | 2 | 13 | 18770 | 6996 | 1 | 8 |
| ## 1240 | 7.510978 | 0 | 3 | 17 | 20580 | 2601 | 1 | 13 |
| ## 1241 | 8.441292 | 0 | 0 | 13 | 23550 | 0 | 0 | 4 |
| ## 1242 | 7.564757 | 0 | 1 | 11 | 5200 | 7372 | 3 | 10 |
| ## 1243 | 8.105308 | 0 | 0 | 0 | 10070 | 3855 | 2 | 14 |
| ## 1244 | 8.790726 | 0 | 2 | 11 | 11990 | 0 | 0 | 1 |
| ## 1247 | 8.130648 | 0 | 2 | 14 | 15360 | 5117 | 2 | 1 |
| ## 1248 | 8.920122 | 0 | 0 | 11 | 4320 | 17368 | 2 | 5 |
| ## 1249 | 8.207004 | 0 | 0 | 13 | 7000 | 6552 | 1 | 1 |
| ## 1250 | 9.061260 | 1 | 2 | 10 | 5600 | 38312 | 2 | 18 |
| ## 1251 | 9.011340 | 0 | 0 | 8 | 8570 | 3068 | 3 | 9 |
| ## 1252 | 7.587311 | 0 | 0 | 0 | 15610 | 5316 | 2 | 14 |
| ## 1254 | 8.547140 | 0 | 0 | 11 | 13740 | 0 | 0 | 6 |
| ## 1255 | 7.230563 | 0 | 0 | 10 | 7590 | 5517 | 4 | 7 |
| ## 1257 | 9.301780 | 1 | 2 | 13 | 12190 | 0 | 0 | 8 |
| ## 1258 | 7.604396 | 0 | 0 | 8 | 9690 | 4588 | 1 | 1 |
| ## 1259 | 7.818832 | 2 | 2 | 10 | 19130 | 5730 | 3 | 12 |
| ## 1260 | 9.394643 | 0 | 0 | 14 | 12850 | 0 | 0 | 12 |
| ## 1261 | 8.558719 | 0 | 0 | 11 | 6800 | 0 | 0 | 1 |
| ## 1262 | 7.533159 | 0 | 0 | 0 | 6400 | 5032 | 3 | 1 |
| ## 1263 | 6.594829 | 0 | 0 | 11 | 1500 | 31344 | 3 | 7 |
| ## 1266 | 8.766394 | 0 | 0 | 0 | 7470 | 9603 | 2 | 13 |
| ## 1267 | 8.163371 | 0 | 0 | 0 | 1500 | 0 | 0 | 10 |
| ## 1268 | 9.030137 | 0 | 0 | 7 | 15030 | 0 | 0 | 12 |

| | | | | | | | | |
|---------|----------|---|---|----|-------|-------|---|----|
| ## 1269 | 7.107425 | 0 | 0 | 0 | 6000 | 3373 | 3 | 11 |
| ## 1270 | 8.137103 | 0 | 2 | 14 | 4600 | 1794 | 2 | 6 |
| ## 1271 | 8.174117 | 1 | 1 | 7 | 13320 | 7884 | 5 | 17 |
| ## 1273 | 7.490750 | 0 | 4 | 0 | 9150 | 0 | 0 | 1 |
| ## 1274 | 8.999249 | 0 | 1 | 7 | 3900 | 0 | 0 | 12 |
| ## 1276 | 8.726157 | 0 | 0 | 14 | 13810 | 9658 | 1 | 15 |
| ## 1277 | 8.926783 | 0 | 0 | 3 | 6000 | 26003 | 2 | 21 |
| ## 1278 | 8.931023 | 0 | 5 | 14 | 11780 | 30213 | 2 | 7 |
| ## 1279 | 7.690743 | 0 | 0 | 0 | 5200 | 6064 | 1 | 8 |
| ## 1280 | 8.397283 | 0 | 0 | 13 | 30200 | 7092 | 2 | 17 |
| ## 1281 | 8.304247 | 0 | 0 | 14 | 10750 | 0 | 0 | 1 |
| ## 1282 | 8.854808 | 0 | 0 | 0 | 7380 | 4969 | 1 | 10 |
| ## 1285 | 8.229332 | 1 | 1 | 12 | 17700 | 0 | 0 | 5 |
| ## 1286 | 8.492080 | 0 | 0 | 7 | 6100 | 0 | 0 | 1 |
| ## 1287 | 8.209036 | 0 | 0 | 0 | 18070 | 20773 | 3 | 9 |
| ## 1288 | 8.062118 | 0 | 1 | 0 | 13140 | 5696 | 4 | 1 |
| ## 1289 | 9.617052 | 0 | 0 | 11 | 10840 | 0 | 0 | 8 |
| ## 1290 | 8.709300 | 0 | 0 | 14 | 8150 | 23275 | 1 | 1 |
| ## 1292 | 8.569786 | 0 | 3 | 0 | 14900 | 33611 | 1 | 8 |
| ## 1293 | 7.555382 | 0 | 0 | 0 | 8820 | 29572 | 3 | 9 |
| ## 1295 | 8.048149 | 0 | 1 | 11 | 18790 | 0 | 0 | 7 |
| ## 1296 | 8.658866 | 0 | 0 | 14 | 34380 | 6308 | 2 | 14 |
| ## 1297 | 8.591558 | 2 | 2 | 14 | 8380 | 1139 | 3 | 1 |
| ## 1298 | 7.626083 | 0 | 1 | 10 | 11440 | 0 | 0 | 8 |
| ## 1299 | 8.796641 | 0 | 0 | 12 | 7600 | 0 | 0 | 19 |
| ## 1300 | 8.652423 | 1 | 3 | 17 | 3750 | 6714 | 1 | 1 |
| ## 1301 | 9.204825 | 0 | 0 | 14 | 13870 | 8081 | 1 | 12 |
| ## 1304 | 8.841304 | 0 | 3 | 0 | 3830 | 4311 | 1 | 12 |
| ## 1305 | 7.847372 | 1 | 1 | 12 | 6000 | 4339 | 3 | 10 |
| ## 1306 | 7.903596 | 0 | 0 | 12 | 44590 | 8331 | 2 | 9 |
| ## 1307 | 8.303257 | 0 | 0 | 14 | 13570 | 0 | 0 | 14 |
| ## 1308 | 8.559514 | 0 | 0 | 9 | 10450 | 0 | 0 | 5 |
| ## 1309 | 8.226038 | 0 | 0 | 0 | 26580 | 5921 | 5 | 1 |
| ## 1311 | 8.117014 | 0 | 0 | 6 | 12140 | 1986 | 4 | 7 |
| ## 1312 | 8.398410 | 0 | 0 | 10 | 14420 | 1414 | 1 | 5 |
| ## 1314 | 7.947679 | 0 | 0 | 11 | 8160 | 5386 | 1 | 5 |
| ## 1315 | 7.929487 | 0 | 2 | 0 | 15070 | 0 | 0 | 9 |
| ## 1316 | 8.215547 | 0 | 1 | 12 | 11580 | 23198 | 3 | 12 |
| ## 1317 | 8.408940 | 0 | 4 | 14 | 11520 | 0 | 0 | 9 |
| ## 1318 | 8.428362 | 0 | 4 | 0 | 8700 | 0 | 0 | 1 |
| ## 1319 | 9.011767 | 0 | 1 | 11 | 10060 | 0 | 0 | 5 |
| ## 1320 | 8.868976 | 0 | 2 | 15 | 6000 | 9611 | 2 | 15 |
| ## 1323 | 8.612322 | 0 | 0 | 11 | 5400 | 4031 | 1 | 6 |
| ## 1324 | 8.635154 | 2 | 2 | 13 | 16370 | 4873 | 2 | 7 |
| ## 1325 | 7.703910 | 0 | 0 | 9 | 29900 | 10768 | 3 | 9 |
| ## 1326 | 9.231025 | 2 | 3 | 12 | 7210 | 0 | 0 | 9 |
| ## 1327 | 8.184514 | 0 | 0 | 12 | 5900 | 0 | 0 | 1 |
| ## 1328 | 8.665613 | 1 | 2 | 7 | 26440 | 3699 | 3 | 18 |
| ## 1330 | 8.474286 | 0 | 1 | 14 | 10330 | 0 | 0 | 1 |
| ## 1331 | 7.190740 | 1 | 1 | 15 | 17730 | 6421 | 1 | 6 |
| ## 1333 | 7.768533 | 0 | 0 | 9 | 15050 | 6713 | 3 | 1 |
| ## 1334 | 8.686430 | 0 | 0 | 10 | 3630 | 3653 | 1 | 1 |
| ## 1335 | 7.672758 | 0 | 1 | 0 | 2750 | 39401 | 3 | 10 |
| ## 1336 | 8.168203 | 0 | 1 | 13 | 12170 | 3055 | 2 | 8 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1337 | 8.194229 | 0 | 0 | 0 | 1500 | 8567 | 2 | 8 |
| ## 1338 | 8.623893 | 0 | 0 | 10 | 21380 | 0 | 0 | 8 |
| ## 1339 | 8.345693 | 0 | 0 | 13 | 26020 | 1044 | 2 | 5 |
| ## 1342 | 8.077137 | 0 | 1 | 11 | 15380 | 5563 | 3 | 4 |
| ## 1343 | 7.842279 | 0 | 0 | 7 | 8770 | 9232 | 3 | 14 |
| ## 1344 | 7.025538 | 0 | 0 | 10 | 42170 | 0 | 0 | 8 |
| ## 1345 | 8.598404 | 0 | 3 | 9 | 23330 | 0 | 0 | 16 |
| ## 1346 | 7.780721 | 0 | 3 | 10 | 10890 | 4044 | 2 | 9 |
| ## 1347 | 8.594339 | 1 | 1 | 9 | 12830 | 1510 | 1 | 1 |
| ## 1349 | 9.827682 | 0 | 1 | 8 | 8540 | 0 | 0 | 1 |
| ## 1350 | 8.905037 | 0 | 0 | 13 | 18560 | 0 | 0 | 10 |
| ## 1352 | 9.324817 | 0 | 0 | 9 | 9420 | 0 | 0 | 4 |
| ## 1353 | 8.836374 | 1 | 2 | 12 | 23950 | 3718 | 1 | 4 |
| ## 1354 | 8.363342 | 0 | 0 | 14 | 18300 | 8363 | 1 | 1 |
| ## 1355 | 8.430763 | 0 | 2 | 0 | 7500 | 0 | 0 | 1 |
| ## 1356 | 8.209580 | 2 | 4 | 16 | 1500 | 49223 | 1 | 1 |
| ## 1357 | 10.940220 | 0 | 2 | 15 | 9760 | 2316 | 1 | 1 |
| ## 1358 | 7.777374 | 0 | 0 | 10 | 9190 | 0 | 0 | 1 |
| ## 1361 | 7.518064 | 2 | 2 | 11 | 18270 | 2787 | 3 | 1 |
| ## 1362 | 8.579980 | 0 | 0 | 15 | 25090 | 0 | 0 | 7 |
| ## 1363 | 8.499640 | 0 | 2 | 0 | 9750 | 11093 | 3 | 1 |
| ## 1364 | 8.410721 | 0 | 0 | 8 | 13950 | 0 | 0 | 11 |
| ## 1365 | 9.053664 | 0 | 1 | 15 | 11210 | 10572 | 4 | 8 |
| ## 1366 | 8.138273 | 0 | 0 | 10 | 3350 | 6006 | 2 | 14 |
| ## 1368 | 8.148735 | 1 | 2 | 16 | 44250 | 26121 | 4 | 11 |
| ## 1369 | 8.257904 | 0 | 2 | 12 | 6140 | 696 | 2 | 1 |
| ## 1371 | 8.387540 | 0 | 1 | 9 | 19380 | 0 | 0 | 7 |
| ## 1372 | 8.671458 | 0 | 0 | 5 | 18110 | 1575 | 2 | 16 |
| ## 1373 | 8.470311 | 0 | 2 | 12 | 17540 | 25379 | 1 | 9 |
| ## 1374 | 7.765145 | 0 | 2 | 0 | 22430 | 8538 | 4 | 1 |
| ## 1375 | 8.589328 | 0 | 0 | 11 | 18900 | 3328 | 1 | 11 |
| ## 1376 | 7.048386 | 0 | 0 | 13 | 19620 | 0 | 0 | 15 |
| ## 1377 | 4.069558 | 3 | 3 | 14 | 7770 | 28476 | 1 | 1 |
| ## 1380 | 7.629976 | 1 | 2 | 13 | 13850 | 3828 | 3 | 6 |
| ## 1381 | 7.792349 | 0 | 0 | 11 | 10170 | 8135 | 3 | 13 |
| ## 1382 | 7.546446 | 0 | 0 | 12 | 16810 | 6978 | 2 | 1 |
| ## 1383 | 6.964136 | 0 | 0 | 13 | 19450 | 0 | 0 | 13 |
| ## 1384 | 7.269733 | 1 | 2 | 16 | 13020 | 44010 | 3 | 6 |
| ## 1385 | 6.842247 | 0 | 0 | 12 | 14060 | 0 | 0 | 9 |
| ## 1387 | 8.336151 | 0 | 2 | 9 | 18790 | 26926 | 2 | 15 |
| ## 1388 | 8.783856 | 1 | 2 | 8 | 25730 | 1410 | 1 | 5 |
| ## 1390 | 7.799343 | 0 | 2 | 10 | 19240 | 4445 | 2 | 10 |
| ## 1391 | 8.223091 | 2 | 2 | 12 | 15500 | 5306 | 2 | 1 |
| ## 1392 | 10.619896 | 0 | 0 | 12 | 12200 | 0 | 0 | 1 |
| ## 1393 | 8.357494 | 0 | 0 | 6 | 16790 | 32113 | 1 | 19 |
| ## 1394 | 8.593969 | 0 | 0 | 13 | 26630 | 11364 | 1 | 15 |
| ## 1395 | 8.101072 | 0 | 0 | 13 | 13940 | 0 | 0 | 1 |
| ## 1396 | 8.684063 | 0 | 0 | 13 | 21670 | 0 | 0 | 10 |
| ## 1399 | 8.927845 | 0 | 2 | 0 | 1500 | 11086 | 2 | 9 |
| ## 1400 | 7.614312 | 0 | 0 | 11 | 12960 | 3116 | 2 | 10 |
| ## 1401 | 8.545392 | 1 | 3 | 14 | 14210 | 1155 | 1 | 6 |
| ## 1402 | 8.163086 | 0 | 0 | 12 | 44130 | 0 | 0 | 1 |
| ## 1403 | 8.157084 | 2 | 2 | 9 | 23380 | 0 | 0 | 19 |
| ## 1404 | 7.587311 | 0 | 2 | 14 | 15380 | 0 | 0 | 14 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1406 | 8.371474 | 1 | 2 | 12 | 9720 | 0 | 0 | 1 |
| ## 1407 | 7.750615 | 1 | 3 | 14 | 13540 | 1879 | 1 | 10 |
| ## 1409 | 8.109826 | 0 | 1 | 12 | 2070 | 6535 | 2 | 1 |
| ## 1410 | 8.429018 | 0 | 0 | 15 | 12350 | 2414 | 1 | 1 |
| ## 1411 | 8.211211 | 0 | 0 | 6 | 6300 | 3614 | 3 | 12 |
| ## 1412 | 7.188413 | 0 | 1 | 13 | 3680 | 0 | 0 | 8 |
| ## 1413 | 8.448272 | 0 | 0 | 10 | 13510 | 0 | 0 | 13 |
| ## 1414 | 7.819636 | 0 | 0 | 10 | 22060 | 1685 | 3 | 10 |
| ## 1415 | 8.682877 | 0 | 0 | 12 | 24660 | 0 | 0 | 8 |
| ## 1418 | 7.229114 | 1 | 2 | 13 | 6000 | 29150 | 2 | 8 |
| ## 1419 | 7.859413 | 0 | 0 | 11 | 6440 | 10000 | 1 | 1 |
| ## 1420 | 8.117312 | 0 | 0 | 11 | 6600 | 21606 | 1 | 1 |
| ## 1421 | 8.776630 | 0 | 3 | 8 | 12510 | 0 | 0 | 3 |
| ## 1422 | 8.599879 | 0 | 0 | 10 | 7780 | 0 | 0 | 20 |
| ## 1423 | 8.919453 | 0 | 1 | 9 | 11670 | 9302 | 1 | 18 |
| ## 1425 | 8.886547 | 1 | 1 | 12 | 21780 | 0 | 0 | 9 |
| ## 1426 | 8.002360 | 0 | 1 | 0 | 15370 | 2747 | 1 | 6 |
| ## 1428 | 7.740230 | 0 | 0 | 13 | 10150 | 10658 | 1 | 3 |
| ## 1429 | 7.831220 | 0 | 2 | 9 | 8190 | 2892 | 3 | 3 |
| ## 1430 | 11.356548 | 0 | 0 | 10 | 22830 | 10011 | 1 | 1 |
| ## 1431 | 8.467583 | 0 | 0 | 11 | 6300 | 6041 | 4 | 9 |
| ## 1432 | 8.948716 | 0 | 0 | 12 | 33500 | 0 | 0 | 9 |
| ## 1433 | 9.732273 | 0 | 0 | 12 | 24010 | 11445 | 3 | 1 |
| ## 1434 | 8.599326 | 1 | 2 | 0 | 7100 | 0 | 0 | 7 |
| ## 1437 | 8.420242 | 0 | 0 | 14 | 10970 | 5653 | 3 | 6 |
| ## 1438 | 8.652598 | 0 | 0 | 0 | 40100 | 27795 | 2 | 4 |
| ## 1439 | 7.817223 | 0 | 0 | 9 | 20140 | 5105 | 2 | 8 |
| ## 1440 | 6.693324 | 0 | 0 | 10 | 7020 | 0 | 0 | 15 |
| ## 1441 | 8.594154 | 0 | 0 | 12 | 14030 | 0 | 0 | 10 |
| ## 1442 | 8.047190 | 0 | 0 | 13 | 5720 | 0 | 0 | 6 |
| ## 1444 | 7.981733 | 0 | 2 | 14 | 7940 | 4922 | 3 | 9 |
| ## 1445 | 8.413165 | 0 | 3 | 17 | 19680 | 6279 | 1 | 16 |
| ## 1447 | 8.579604 | 0 | 0 | 12 | 22160 | 41742 | 1 | 18 |
| ## 1448 | 8.566555 | 0 | 1 | 10 | 9640 | 2951 | 2 | 1 |
| ## 1449 | 8.108021 | 0 | 3 | 16 | 5500 | 0 | 0 | 10 |
| ## 1450 | 8.903679 | 0 | 0 | 14 | 21360 | 0 | 0 | 10 |
| ## 1451 | 6.388561 | 0 | 0 | 11 | 9880 | 0 | 0 | 9 |
| ## 1452 | 8.511175 | 0 | 0 | 14 | 18700 | 0 | 0 | 14 |
| ## 1453 | 8.381832 | 0 | 0 | 10 | 6900 | 0 | 0 | 1 |
| ## 1456 | 7.994295 | 0 | 2 | 10 | 22460 | 6029 | 1 | 10 |
| ## 1457 | 8.130354 | 0 | 0 | 13 | 22420 | 27497 | 1 | 8 |
| ## 1458 | 8.228177 | 0 | 0 | 11 | 23360 | 4963 | 3 | 7 |
| ## 1459 | 8.499029 | 0 | 2 | 0 | 13930 | 2711 | 2 | 10 |
| ## 1460 | 7.801391 | 0 | 3 | 10 | 9360 | 0 | 0 | 7 |
| ## 1461 | 10.555229 | 0 | 0 | 9 | 17280 | 3780 | 2 | 7 |
| ## 1463 | 7.050123 | 2 | 2 | 0 | 11100 | 0 | 0 | 17 |
| ## 1464 | 7.878260 | 1 | 1 | 11 | 6300 | 4596 | 1 | 20 |
| ## 1466 | 8.408494 | 0 | 0 | 13 | 10760 | 6675 | 1 | 7 |
| ## 1467 | 8.080547 | 0 | 0 | 15 | 12370 | 0 | 0 | 1 |
| ## 1468 | 8.600431 | 2 | 2 | 12 | 16710 | 3618 | 3 | 1 |
| ## 1469 | 7.886833 | 0 | 2 | 10 | 8460 | 6403 | 2 | 1 |
| ## 1470 | 7.808729 | 1 | 1 | 14 | 7600 | 11681 | 2 | 14 |
| ## 1471 | 6.386879 | 0 | 2 | 17 | 17890 | 0 | 0 | 13 |
| ## 1472 | 6.570883 | 0 | 4 | 12 | 3980 | 1391 | 2 | 6 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1475 | 10.462866 | 2 | 3 | 13 | 28200 | 6013 | 2 | 8 |
| ## 1476 | 9.067739 | 0 | 0 | 9 | 5800 | 0 | 0 | 1 |
| ## 1477 | 10.049278 | 0 | 0 | 12 | 22930 | 7089 | 3 | 4 |
| ## 1478 | 8.249052 | 0 | 0 | 6 | 19840 | 5341 | 2 | 1 |
| ## 1479 | 9.062133 | 0 | 2 | 9 | 16380 | 7564 | 3 | 1 |
| ## 1480 | 8.536407 | 0 | 0 | 12 | 30390 | 0 | 0 | 10 |
| ## 1482 | 8.364042 | 0 | 0 | 9 | 15020 | 8921 | 1 | 14 |
| ## 1483 | 8.448057 | 0 | 0 | 11 | 21070 | 0 | 0 | 8 |
| ## 1485 | 8.914895 | 2 | 3 | 13 | 9210 | 6848 | 1 | 1 |
| ## 1486 | 7.462395 | 0 | 0 | 4 | 22440 | 8419 | 3 | 17 |
| ## 1487 | 9.530492 | 2 | 3 | 12 | 23450 | 0 | 0 | 1 |
| ## 1488 | 7.586804 | 0 | 0 | 14 | 26920 | 0 | 0 | 7 |
| ## 1489 | 9.072457 | 2 | 2 | 16 | 10420 | 4528 | 5 | 22 |
| ## 1490 | 8.387085 | 1 | 2 | 13 | 8090 | 0 | 0 | 8 |
| ## 1491 | 8.200452 | 0 | 0 | 13 | 19390 | 0 | 0 | 1 |
| ## 1494 | 7.320527 | 0 | 0 | 15 | 24900 | 2033 | 4 | 11 |
| ## 1495 | 7.878913 | 1 | 1 | 11 | 6300 | 0 | 0 | 12 |
| ## 1496 | 8.400210 | 0 | 4 | 12 | 14330 | 0 | 0 | 1 |
| ## 1497 | 8.498214 | 0 | 0 | 8 | 7730 | 3229 | 2 | 13 |
| ## 1498 | 8.511175 | 0 | 0 | 9 | 20630 | 4562 | 1 | 12 |
| ## 1499 | 8.531490 | 0 | 0 | 6 | 10530 | 1089 | 2 | 5 |
| ## 1501 | 8.804325 | 0 | 0 | 14 | 10880 | 28621 | 2 | 1 |
| ## 1502 | 8.092545 | 0 | 0 | 10 | 13590 | 0 | 0 | 1 |
| ## 1504 | 10.049912 | 0 | 3 | 7 | 10140 | 0 | 0 | 10 |
| ## 1505 | 8.641532 | 2 | 3 | 14 | 5700 | 0 | 0 | 9 |
| ## 1506 | 9.876627 | 1 | 2 | 11 | 8370 | 4707 | 3 | 1 |
| ## 1507 | 9.089415 | 0 | 0 | 0 | 5900 | 8054 | 1 | 7 |
| ## 1508 | 8.575462 | 0 | 2 | 8 | 5200 | 5760 | 4 | 13 |
| ## 1509 | 8.529714 | 0 | 3 | 16 | 9390 | 8339 | 2 | 3 |
| ## 1510 | 7.404279 | 0 | 0 | 11 | 20520 | 0 | 0 | 17 |
| ## 1513 | 8.848078 | 0 | 2 | 12 | 4800 | 1536 | 2 | 6 |
| ## 1514 | 7.917728 | 0 | 0 | 11 | 11550 | 6079 | 1 | 7 |
| ## 1515 | 8.530109 | 0 | 0 | 9 | 17860 | 33326 | 3 | 19 |
| ## 1516 | 8.116716 | 0 | 0 | 13 | 23340 | 10718 | 3 | 1 |
| ## 1517 | 8.035603 | 2 | 3 | 0 | 19620 | 28816 | 4 | 8 |
| ## 1518 | 8.453401 | 0 | 0 | 12 | 31440 | 0 | 0 | 1 |
| ## 1520 | 9.840207 | 0 | 1 | 9 | 8720 | 2481 | 3 | 14 |
| ## 1521 | 8.082711 | 0 | 0 | 13 | 8080 | 2658 | 2 | 9 |
| ## 1523 | 7.655391 | 0 | 0 | 9 | 2800 | 1354 | 2 | 10 |
| ## 1524 | 7.889084 | 0 | 0 | 12 | 14990 | 0 | 0 | 1 |
| ## 1525 | 8.020599 | 0 | 0 | 7 | 6200 | 2849 | 2 | 7 |
| ## 1526 | 8.603921 | 1 | 1 | 13 | 9580 | 40929 | 1 | 16 |
| ## 1527 | 8.691315 | 1 | 2 | 13 | 15810 | 0 | 0 | 1 |
| ## 1528 | 6.517671 | 0 | 3 | 14 | 15770 | 0 | 0 | 1 |
| ## 1529 | 7.548029 | 1 | 2 | 0 | 5300 | 2185 | 2 | 5 |
| ## 1532 | 8.517793 | 0 | 3 | 7 | 20510 | 4570 | 3 | 8 |
| ## 1533 | 7.670429 | 1 | 2 | 13 | 8770 | 0 | 0 | 1 |
| ## 1534 | 6.584791 | 0 | 1 | 12 | 6990 | 0 | 0 | 4 |
| ## 1535 | 8.778177 | 0 | 0 | 15 | 7770 | 0 | 0 | 1 |
| ## 1536 | 10.803233 | 0 | 1 | 10 | 12710 | 2083 | 3 | 1 |
| ## 1537 | 8.795885 | 0 | 0 | 9 | 24680 | 3319 | 3 | 1 |
| ## 1539 | 8.380915 | 0 | 0 | 10 | 22950 | 0 | 0 | 11 |
| ## 1540 | 8.095904 | 0 | 0 | 9 | 8410 | 13251 | 2 | 10 |
| ## 1542 | 7.917901 | 0 | 0 | 9 | 14990 | 6055 | 1 | 9 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1543 | 6.866636 | 0 | 1 | 0 | 4900 | 0 | 0 | 9 |
| ## 1544 | 7.811163 | 0 | 0 | 9 | 17560 | 0 | 0 | 7 |
| ## 1545 | 7.526179 | 0 | 2 | 13 | 8130 | 7852 | 1 | 1 |
| ## 1546 | 8.762020 | 0 | 0 | 7 | 18820 | 0 | 0 | 7 |
| ## 1547 | 8.874168 | 0 | 1 | 9 | 6100 | 2986 | 3 | 5 |
| ## 1548 | 8.542081 | 0 | 0 | 6 | 12120 | 1520 | 3 | 5 |
| ## 1551 | 8.537388 | 0 | 0 | 10 | 18820 | 7848 | 1 | 13 |
| ## 1552 | 10.982765 | 1 | 2 | 13 | 23520 | 0 | 0 | 11 |
| ## 1553 | 8.742095 | 2 | 2 | 9 | 33760 | 2491 | 2 | 9 |
| ## 1554 | 8.603738 | 0 | 1 | 9 | 8960 | 0 | 0 | 1 |
| ## 1555 | 8.013674 | 0 | 0 | 14 | 13780 | 5014 | 4 | 22 |
| ## 1556 | 7.944137 | 0 | 0 | 11 | 13400 | 0 | 0 | 12 |
| ## 1558 | 8.921458 | 3 | 3 | 14 | 8860 | 2680 | 1 | 11 |
| ## 1559 | 8.881697 | 3 | 3 | 10 | 31000 | 0 | 0 | 1 |
| ## 1561 | 7.438384 | 0 | 0 | 8 | 14320 | 3597 | 2 | 5 |
| ## 1562 | 8.386208 | 0 | 0 | 5 | 3790 | 0 | 0 | 5 |
| ## 1563 | 8.174421 | 2 | 2 | 11 | 5500 | 1896 | 1 | 1 |
| ## 1564 | 7.036148 | 0 | 2 | 12 | 5200 | 0 | 0 | 16 |
| ## 1565 | 8.438799 | 2 | 3 | 14 | 16220 | 9216 | 2 | 10 |
| ## 1566 | 8.533460 | 0 | 4 | 0 | 11730 | 38888 | 2 | 1 |
| ## 1567 | 8.289539 | 0 | 0 | 12 | 38200 | 1657 | 2 | 12 |
| ## 1570 | 8.257645 | 0 | 3 | 14 | 10550 | 8454 | 3 | 1 |
| ## 1571 | 8.832004 | 0 | 1 | 10 | 10960 | 0 | 0 | 7 |
| ## 1572 | 7.734121 | 0 | 0 | 14 | 20540 | 0 | 0 | 15 |
| ## 1573 | 6.658011 | 3 | 3 | 10 | 11160 | 0 | 0 | 7 |
| ## 1574 | 9.170039 | 0 | 0 | 11 | 10340 | 0 | 0 | 6 |
| ## 1575 | 8.820256 | 0 | 0 | 12 | 19030 | 0 | 0 | 20 |
| ## 1577 | 9.004300 | 0 | 3 | 0 | 31810 | 1157 | 3 | 1 |
| ## 1578 | 8.658519 | 0 | 0 | 13 | 7670 | 3158 | 3 | 9 |
| ## 1580 | 8.327484 | 1 | 2 | 10 | 17750 | 0 | 0 | 1 |
| ## 1581 | 5.887656 | 0 | 0 | 0 | 6300 | 2460 | 1 | 12 |
| ## 1582 | 9.444031 | 1 | 2 | 15 | 8090 | 5037 | 3 | 16 |
| ## 1583 | 10.070780 | 0 | 0 | 11 | 9850 | 0 | 0 | 1 |
| ## 1584 | 8.475746 | 0 | 0 | 12 | 10860 | 2457 | 2 | 6 |
| ## 1585 | 7.467852 | 2 | 2 | 11 | 25950 | 8543 | 2 | 7 |
| ## 1586 | 6.733402 | 0 | 0 | 12 | 15270 | 7705 | 1 | 18 |
| ## 1589 | 9.893806 | 0 | 0 | 12 | 19240 | 44641 | 2 | 1 |
| ## 1590 | 8.117611 | 0 | 2 | 13 | 26040 | 0 | 0 | 13 |
| ## 1591 | 8.317033 | 0 | 1 | 11 | 28190 | 0 | 0 | 11 |
| ## 1592 | 9.187016 | 0 | 3 | 15 | 4900 | 1620 | 1 | 6 |
| ## 1593 | 8.157370 | 0 | 2 | 11 | 10810 | 0 | 0 | 1 |
| ## 1594 | 10.369036 | 1 | 2 | 8 | 23970 | 1849 | 2 | 8 |
| ## 1596 | 8.078998 | 0 | 0 | 13 | 11010 | 3767 | 2 | 12 |
| ## 1597 | 7.037906 | 0 | 0 | 10 | 8260 | 0 | 0 | 5 |
| ## 1599 | 8.664233 | 0 | 1 | 7 | 20580 | 0 | 0 | 5 |
| ## 1600 | 7.752335 | 0 | 0 | 0 | 8110 | 0 | 0 | 8 |
| ## 1601 | 8.582598 | 0 | 0 | 13 | 9070 | 0 | 0 | 8 |
| ## 1602 | 7.853993 | 0 | 4 | 11 | 6460 | 3862 | 2 | 16 |
| ## 1603 | 7.593374 | 0 | 0 | 9 | 34920 | 0 | 0 | 1 |
| ## 1604 | 8.326033 | 0 | 1 | 11 | 17200 | 0 | 0 | 1 |
| ## 1605 | 8.447843 | 0 | 0 | 9 | 26530 | 2884 | 1 | 8 |
| ## 1608 | 8.172877 | 0 | 2 | 12 | 8270 | 6081 | 4 | 1 |
| ## 1609 | 7.852828 | 0 | 0 | 12 | 19120 | 2136 | 3 | 1 |
| ## 1610 | 7.661056 | 1 | 2 | 12 | 14690 | 17070 | 2 | 19 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1611 | 7.409136 | 0 | 0 | 14 | 15220 | 20511 | 1 | 1 |
| ## 1612 | 7.954723 | 0 | 0 | 9 | 8350 | 536 | 1 | 1 |
| ## 1613 | 8.112228 | 2 | 3 | 11 | 11960 | 45931 | 1 | 1 |
| ## 1615 | 8.548886 | 0 | 0 | 10 | 18430 | 27389 | 2 | 9 |
| ## 1616 | 8.488176 | 0 | 0 | 12 | 10100 | 0 | 0 | 3 |
| ## 1618 | 8.264363 | 0 | 3 | 0 | 4900 | 0 | 0 | 6 |
| ## 1619 | 6.848005 | 0 | 3 | 13 | 7620 | 5304 | 2 | 1 |
| ## 1620 | 7.837949 | 0 | 0 | 13 | 12040 | 0 | 0 | 6 |
| ## 1621 | 8.161946 | 1 | 1 | 13 | 22960 | 0 | 0 | 1 |
| ## 1622 | 7.985825 | 0 | 0 | 10 | 8920 | 0 | 0 | 17 |
| ## 1623 | 7.561642 | 0 | 0 | 11 | 43290 | 19942 | 3 | 8 |
| ## 1624 | 7.054298 | 0 | 0 | 13 | 13650 | 7062 | 3 | 1 |
| ## 1627 | 8.901775 | 0 | 0 | 11 | 9460 | 0 | 0 | 1 |
| ## 1628 | 9.603132 | 0 | 0 | 14 | 10830 | 0 | 0 | 13 |
| ## 1629 | 8.518193 | 0 | 0 | 12 | 4740 | 0 | 0 | 6 |
| ## 1630 | 8.251509 | 0 | 0 | 0 | 20260 | 934 | 2 | 1 |
| ## 1631 | 8.314097 | 0 | 0 | 8 | 9490 | 0 | 0 | 17 |
| ## 1632 | 8.472823 | 0 | 0 | 11 | 19030 | 0 | 0 | 7 |
| ## 1634 | 8.010360 | 0 | 0 | 16 | 7280 | 4009 | 2 | 6 |
| ## 1635 | 7.996990 | 3 | 3 | 4 | 15100 | 35863 | 2 | 8 |
| ## 1637 | 8.470311 | 0 | 0 | 7 | 14910 | 3894 | 4 | 13 |
| ## 1638 | 8.486255 | 1 | 2 | 14 | 17430 | 6452 | 4 | 7 |
| ## 1639 | 10.892958 | 0 | 1 | 11 | 18690 | 0 | 0 | 1 |
| ## 1640 | 8.502486 | 0 | 0 | 13 | 5530 | 8942 | 2 | 9 |
| ## 1641 | 8.231642 | 0 | 0 | 10 | 5320 | 6094 | 2 | 6 |
| ## 1642 | 7.193686 | 1 | 1 | 11 | 5620 | 7351 | 2 | 18 |
| ## 1643 | 8.147578 | 0 | 0 | 7 | 8760 | 0 | 0 | 10 |
| ## 1646 | 7.992607 | 0 | 0 | 12 | 18320 | 8143 | 2 | 10 |
| ## 1647 | 8.780019 | 0 | 0 | 10 | 6950 | 0 | 0 | 4 |
| ## 1648 | 8.058644 | 0 | 0 | 9 | 17630 | 3826 | 4 | 9 |
| ## 1649 | 7.372746 | 0 | 0 | 13 | 13340 | 3990 | 2 | 9 |
| ## 1650 | 8.503297 | 0 | 0 | 12 | 13480 | 3819 | 2 | 8 |
| ## 1651 | 8.375630 | 1 | 1 | 12 | 17160 | 3744 | 2 | 6 |
| ## 1653 | 8.015988 | 0 | 0 | 0 | 14810 | 7846 | 2 | 6 |
| ## 1654 | 7.338238 | 1 | 2 | 12 | 11930 | 4658 | 3 | 9 |
| ## 1656 | 8.157657 | 0 | 4 | 0 | 4300 | 0 | 0 | 6 |
| ## 1657 | 8.380915 | 0 | 0 | 10 | 23610 | 6011 | 3 | 16 |
| ## 1658 | 7.980024 | 0 | 2 | 0 | 7410 | 1491 | 2 | 1 |
| ## 1659 | 8.286521 | 0 | 0 | 8 | 16700 | 45357 | 1 | 1 |
| ## 1660 | 8.507749 | 3 | 3 | 14 | 12310 | 0 | 0 | 10 |
| ## 1661 | 8.462737 | 0 | 0 | 11 | 6400 | 5551 | 2 | 7 |
| ## 1662 | 8.941153 | 0 | 2 | 12 | 8000 | 39722 | 1 | 10 |
| ## 1665 | 7.746301 | 1 | 1 | 17 | 29700 | 7238 | 2 | 8 |
| ## 1666 | 8.286269 | 0 | 0 | 16 | 26520 | 3431 | 1 | 16 |
| ## 1667 | 6.721063 | 1 | 2 | 8 | 10280 | 9035 | 4 | 7 |
| ## 1668 | 8.538759 | 1 | 2 | 14 | 7210 | 36236 | 3 | 12 |
| ## 1669 | 8.703341 | 0 | 4 | 15 | 7320 | 7582 | 2 | 7 |
| ## 1670 | 8.354439 | 0 | 3 | 12 | 24710 | 898 | 1 | 13 |
| ## 1672 | 8.515792 | 0 | 0 | 9 | 23110 | 0 | 0 | 1 |
| ## 1673 | 8.295049 | 1 | 3 | 15 | 18080 | 1784 | 1 | 14 |
| ## 1675 | 8.285513 | 0 | 3 | 0 | 16670 | 1051 | 1 | 9 |
| ## 1676 | 8.957382 | 1 | 1 | 12 | 23120 | 0 | 0 | 6 |
| ## 1677 | 8.368229 | 0 | 2 | 17 | 9530 | 0 | 0 | 3 |
| ## 1678 | 10.353188 | 0 | 0 | 11 | 22930 | 6367 | 1 | 1 |

| | | | | | | | | |
|---------|----------|---|---|----|-------|-------|---|----|
| ## 1679 | 8.451267 | 0 | 1 | 11 | 16410 | 0 | 0 | 1 |
| ## 1680 | 8.699681 | 0 | 0 | 13 | 17270 | 0 | 0 | 1 |
| ## 1681 | 8.507749 | 0 | 3 | 16 | 14000 | 0 | 0 | 9 |
| ## 1684 | 7.187004 | 0 | 0 | 8 | 23260 | 0 | 0 | 1 |
| ## 1685 | 6.539586 | 0 | 3 | 15 | 9360 | 6906 | 2 | 6 |
| ## 1686 | 8.363109 | 0 | 0 | 7 | 1500 | 0 | 0 | 7 |
| ## 1687 | 8.497603 | 0 | 0 | 8 | 12710 | 24458 | 1 | 1 |
| ## 1688 | 8.740337 | 0 | 0 | 7 | 32020 | 28495 | 2 | 15 |
| ## 1689 | 7.436617 | 0 | 0 | 14 | 13570 | 0 | 0 | 9 |
| ## 1691 | 8.967102 | 0 | 3 | 13 | 5470 | 0 | 0 | 1 |
| ## 1692 | 7.881560 | 0 | 0 | 10 | 17190 | 8174 | 2 | 1 |
| ## 1694 | 8.147288 | 1 | 2 | 6 | 20450 | 0 | 0 | 1 |
| ## 1695 | 7.524561 | 0 | 0 | 14 | 18490 | 4906 | 1 | 7 |
| ## 1696 | 7.597396 | 0 | 0 | 0 | 1500 | 6414 | 2 | 7 |
| ## 1697 | 9.022081 | 0 | 0 | 12 | 7520 | 0 | 0 | 12 |
| ## 1698 | 8.735780 | 1 | 3 | 13 | 18060 | 785 | 2 | 14 |
| ## 1699 | 8.466531 | 0 | 0 | 12 | 26370 | 5055 | 3 | 9 |
| ## 1700 | 7.752335 | 2 | 2 | 0 | 1500 | 0 | 0 | 5 |
| ## 1703 | 8.366603 | 0 | 2 | 7 | 8310 | 6693 | 3 | 6 |
| ## 1704 | 8.714111 | 0 | 0 | 8 | 9830 | 4600 | 2 | 1 |
| ## 1705 | 8.212297 | 0 | 0 | 9 | 12150 | 0 | 0 | 8 |
| ## 1706 | 8.248529 | 0 | 0 | 13 | 24180 | 19709 | 3 | 10 |
| ## 1707 | 8.995537 | 1 | 1 | 16 | 6710 | 3850 | 4 | 11 |
| ## 1708 | 7.116394 | 0 | 2 | 11 | 23020 | 0 | 0 | 1 |
| ## 1710 | 8.111028 | 2 | 4 | 19 | 26310 | 0 | 0 | 17 |
| ## 1711 | 7.833600 | 1 | 1 | 11 | 10320 | 7560 | 1 | 20 |
| ## 1713 | 8.969796 | 0 | 3 | 0 | 5950 | 0 | 0 | 1 |
| ## 1714 | 8.966101 | 1 | 1 | 11 | 11220 | 6367 | 4 | 19 |
| ## 1715 | 8.211211 | 0 | 0 | 11 | 24770 | 0 | 0 | 1 |
| ## 1716 | 6.765039 | 0 | 0 | 9 | 1500 | 4636 | 3 | 1 |
| ## 1717 | 8.857515 | 0 | 0 | 10 | 14860 | 0 | 0 | 1 |
| ## 1718 | 8.116716 | 0 | 2 | 11 | 26350 | 3683 | 2 | 5 |
| ## 1719 | 7.606885 | 0 | 0 | 10 | 19710 | 49380 | 1 | 7 |
| ## 1722 | 8.622454 | 0 | 2 | 0 | 4500 | 0 | 0 | 8 |
| ## 1723 | 9.057655 | 0 | 0 | 0 | 6200 | 7304 | 3 | 1 |
| ## 1724 | 5.847892 | 0 | 1 | 7 | 4500 | 3923 | 2 | 1 |
| ## 1725 | 9.132279 | 0 | 0 | 9 | 11530 | 7003 | 1 | 9 |
| ## 1726 | 8.661986 | 0 | 3 | 0 | 5110 | 0 | 0 | 7 |
| ## 1727 | 8.388223 | 0 | 0 | 8 | 22110 | 6935 | 1 | 19 |
| ## 1729 | 8.371242 | 0 | 3 | 13 | 31510 | 4278 | 1 | 1 |
| ## 1730 | 7.873978 | 0 | 0 | 5 | 7500 | 5035 | 1 | 13 |
| ## 1732 | 8.639057 | 0 | 2 | 13 | 15570 | 0 | 0 | 9 |
| ## 1733 | 8.221479 | 0 | 0 | 13 | 19860 | 28642 | 3 | 11 |
| ## 1734 | 5.409912 | 0 | 2 | 9 | 4800 | 0 | 0 | 5 |
| ## 1735 | 8.796490 | 0 | 0 | 0 | 6100 | 5348 | 4 | 12 |
| ## 1736 | 7.416980 | 0 | 0 | 10 | 11410 | 0 | 0 | 1 |
| ## 1737 | 8.232174 | 0 | 0 | 10 | 24380 | 3233 | 3 | 11 |
| ## 1738 | 7.637716 | 1 | 2 | 16 | 28800 | 6407 | 1 | 12 |
| ## 1741 | 8.382518 | 0 | 1 | 18 | 6600 | 32674 | 3 | 1 |
| ## 1742 | 8.592486 | 2 | 3 | 17 | 20610 | 0 | 0 | 8 |
| ## 1743 | 9.001593 | 0 | 0 | 9 | 12070 | 1529 | 3 | 12 |
| ## 1744 | 9.130756 | 0 | 1 | 10 | 8760 | 6188 | 1 | 1 |
| ## 1745 | 8.420903 | 0 | 0 | 11 | 26880 | 20061 | 3 | 12 |
| ## 1746 | 7.540090 | 0 | 3 | 16 | 11730 | 5715 | 2 | 6 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1748 | 8.022797 | 0 | 0 | 10 | 14410 | 9513 | 1 | 7 |
| ## 1749 | 3.410398 | 0 | 0 | 8 | 7300 | 4717 | 3 | 8 |
| ## 1751 | 8.431853 | 2 | 2 | 13 | 15930 | 2718 | 2 | 1 |
| ## 1752 | 7.696213 | 0 | 0 | 11 | 11860 | 0 | 0 | 1 |
| ## 1753 | 9.004423 | 0 | 4 | 0 | 17650 | 0 | 0 | 1 |
| ## 1754 | 7.290975 | 0 | 0 | 15 | 16850 | 7199 | 3 | 9 |
| ## 1755 | 8.779404 | 0 | 0 | 12 | 10390 | 2319 | 2 | 13 |
| ## 1756 | 9.014358 | 0 | 2 | 12 | 9610 | 3698 | 2 | 1 |
| ## 1757 | 7.835184 | 0 | 1 | 10 | 23660 | 4415 | 1 | 8 |
| ## 1760 | 8.599510 | 0 | 0 | 11 | 10230 | 0 | 0 | 1 |
| ## 1761 | 7.981792 | 0 | 0 | 2 | 12820 | 0 | 0 | 9 |
| ## 1762 | 8.432071 | 0 | 0 | 12 | 15210 | 34575 | 2 | 6 |
| ## 1763 | 10.551205 | 1 | 1 | 15 | 5670 | 4906 | 2 | 19 |
| ## 1764 | 8.270013 | 0 | 0 | 10 | 10410 | 10930 | 3 | 6 |
| ## 1765 | 7.340187 | 0 | 3 | 11 | 6000 | 0 | 0 | 1 |
| ## 1767 | 7.552762 | 0 | 0 | 12 | 5720 | 15635 | 2 | 6 |
| ## 1768 | 8.159947 | 3 | 3 | 13 | 38900 | 21033 | 2 | 1 |
| ## 1770 | 9.663408 | 0 | 0 | 11 | 10670 | 0 | 0 | 10 |
| ## 1771 | 8.117014 | 0 | 0 | 7 | 11460 | 1552 | 2 | 10 |
| ## 1772 | 8.585599 | 0 | 2 | 11 | 4200 | 10679 | 2 | 6 |
| ## 1773 | 8.112528 | 0 | 2 | 10 | 5200 | 44231 | 2 | 8 |
| ## 1774 | 8.552367 | 0 | 0 | 12 | 7700 | 0 | 0 | 10 |
| ## 1775 | 8.001355 | 0 | 0 | 15 | 29850 | 6600 | 3 | 1 |
| ## 1776 | 9.805841 | 0 | 0 | 11 | 12040 | 5396 | 1 | 1 |
| ## 1779 | 10.282861 | 0 | 2 | 13 | 14330 | 0 | 0 | 14 |
| ## 1780 | 9.662725 | 1 | 3 | 14 | 21690 | 30553 | 3 | 18 |
| ## 1781 | 7.867489 | 2 | 3 | 8 | 23790 | 39271 | 2 | 1 |
| ## 1782 | 7.730614 | 0 | 0 | 8 | 8110 | 32580 | 2 | 6 |
| ## 1783 | 7.774856 | 0 | 0 | 0 | 6200 | 0 | 0 | 9 |
| ## 1784 | 8.235759 | 2 | 2 | 12 | 5400 | 5346 | 2 | 20 |
| ## 1786 | 8.570355 | 1 | 3 | 15 | 33110 | 610 | 4 | 4 |
| ## 1787 | 8.973752 | 0 | 0 | 12 | 11780 | 0 | 0 | 11 |
| ## 1789 | 10.452760 | 0 | 0 | 11 | 24370 | 10457 | 2 | 11 |
| ## 1790 | 7.499423 | 0 | 1 | 12 | 6850 | 40703 | 2 | 7 |
| ## 1791 | 9.031572 | 0 | 0 | 11 | 38290 | 14968 | 1 | 18 |
| ## 1792 | 8.017308 | 0 | 1 | 10 | 22330 | 0 | 0 | 1 |
| ## 1793 | 9.063347 | 1 | 1 | 2 | 15700 | 0 | 0 | 19 |
| ## 1794 | 9.163563 | 0 | 0 | 12 | 9310 | 0 | 0 | 14 |
| ## 1795 | 7.338087 | 0 | 0 | 13 | 13540 | 10345 | 2 | 1 |
| ## 1798 | 8.063693 | 0 | 0 | 8 | 17220 | 5765 | 2 | 12 |
| ## 1799 | 8.503905 | 0 | 1 | 10 | 18850 | 0 | 0 | 1 |
| ## 1800 | 8.319230 | 3 | 3 | 17 | 5620 | 0 | 0 | 1 |
| ## 1801 | 9.672265 | 0 | 3 | 14 | 6210 | 24066 | 1 | 8 |
| ## 1802 | 8.367765 | 0 | 0 | 0 | 28620 | 0 | 0 | 12 |
| ## 1803 | 8.287528 | 0 | 0 | 15 | 14770 | 7456 | 2 | 1 |
| ## 1805 | 8.123854 | 0 | 0 | 11 | 1500 | 0 | 0 | 1 |
| ## 1806 | 8.132706 | 0 | 0 | 10 | 9200 | 4633 | 1 | 1 |
| ## 1808 | 7.001246 | 0 | 2 | 0 | 7400 | 3903 | 4 | 11 |
| ## 1809 | 6.778785 | 0 | 0 | 11 | 12720 | 7872 | 1 | 4 |
| ## 1810 | 7.761745 | 3 | 0 | 12 | 10410 | 0 | 0 | 19 |
| ## 1811 | 8.636220 | 0 | 2 | 7 | 26220 | 9960 | 2 | 1 |
| ## 1812 | 7.876638 | 0 | 0 | 13 | 16710 | 4086 | 4 | 16 |
| ## 1813 | 8.402904 | 0 | 0 | 16 | 14560 | 25947 | 1 | 9 |
| ## 1814 | 8.256088 | 0 | 1 | 15 | 4100 | 4364 | 5 | 17 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1817 | 8.105006 | 0 | 4 | 0 | 17350 | 1430 | 2 | 5 |
| ## 1818 | 7.909857 | 0 | 0 | 9 | 17650 | 0 | 0 | 1 |
| ## 1819 | 7.009409 | 0 | 0 | 7 | 10040 | 0 | 0 | 7 |
| ## 1820 | 8.260493 | 0 | 3 | 8 | 8450 | 0 | 0 | 1 |
| ## 1821 | 7.224753 | 0 | 0 | 0 | 2590 | 5559 | 1 | 9 |
| ## 1822 | 8.783856 | 0 | 0 | 15 | 28690 | 11068 | 3 | 1 |
| ## 1824 | 7.856320 | 1 | 0 | 11 | 9090 | 6583 | 2 | 1 |
| ## 1825 | 8.256607 | 0 | 1 | 10 | 21920 | 0 | 0 | 10 |
| ## 1828 | 8.288786 | 0 | 3 | 13 | 27240 | 3460 | 2 | 7 |
| ## 1829 | 8.144389 | 0 | 2 | 8 | 13890 | 6465 | 3 | 7 |
| ## 1830 | 8.548498 | 0 | 2 | 12 | 23830 | 0 | 0 | 1 |
| ## 1831 | 6.587550 | 1 | 2 | 12 | 8620 | 5289 | 2 | 1 |
| ## 1832 | 11.069474 | 0 | 0 | 14 | 17480 | 0 | 0 | 1 |
| ## 1833 | 8.747193 | 2 | 3 | 13 | 8330 | 3401 | 2 | 1 |
| ## 1834 | 7.651120 | 0 | 2 | 10 | 10050 | 5433 | 3 | 1 |
| ## 1837 | 8.289288 | 0 | 0 | 8 | 5000 | 0 | 0 | 9 |
| ## 1838 | 7.560666 | 0 | 2 | 13 | 27240 | 7776 | 2 | 7 |
| ## 1839 | 7.998671 | 0 | 0 | 14 | 4680 | 6909 | 4 | 1 |
| ## 1840 | 8.339262 | 0 | 0 | 11 | 21880 | 702 | 3 | 7 |
| ## 1841 | 8.821290 | 0 | 2 | 11 | 7750 | 2741 | 2 | 1 |
| ## 1842 | 8.901775 | 0 | 2 | 10 | 6210 | 7098 | 3 | 7 |
| ## 1844 | 8.390546 | 0 | 2 | 14 | 5430 | 6570 | 2 | 1 |
| ## 1845 | 8.374938 | 2 | 3 | 12 | 17370 | 0 | 0 | 7 |
| ## 1847 | 8.800717 | 0 | 0 | 13 | 8390 | 9019 | 3 | 9 |
| ## 1848 | 8.364092 | 2 | 3 | 14 | 9690 | 34514 | 1 | 12 |
| ## 1849 | 8.929568 | 0 | 3 | 0 | 5580 | 12048 | 3 | 1 |
| ## 1850 | 8.371474 | 1 | 2 | 11 | 10320 | 0 | 0 | 7 |
| ## 1851 | 8.861067 | 0 | 1 | 11 | 8860 | 0 | 0 | 1 |
| ## 1852 | 9.835696 | 0 | 0 | 9 | 10740 | 8784 | 3 | 8 |
| ## 1853 | 10.657798 | 0 | 0 | 14 | 30070 | 5008 | 1 | 9 |
| ## 1856 | 8.663369 | 0 | 0 | 13 | 13580 | 3668 | 4 | 11 |
| ## 1857 | 8.601167 | 0 | 1 | 13 | 26780 | 0 | 0 | 2 |
| ## 1858 | 11.263277 | 0 | 2 | 0 | 17700 | 4211 | 2 | 6 |
| ## 1859 | 6.421622 | 2 | 3 | 8 | 15770 | 8174 | 3 | 15 |
| ## 1860 | 7.820841 | 2 | 3 | 12 | 22050 | 0 | 0 | 4 |
| ## 1861 | 7.976595 | 0 | 0 | 12 | 14620 | 0 | 0 | 1 |
| ## 1863 | 7.974877 | 0 | 2 | 12 | 18850 | 2665 | 3 | 9 |
| ## 1864 | 8.940498 | 0 | 0 | 11 | 19610 | 8924 | 1 | 1 |
| ## 1866 | 8.158230 | 0 | 0 | 10 | 5130 | 4158 | 1 | 11 |
| ## 1867 | 7.483807 | 0 | 0 | 9 | 14520 | 7191 | 1 | 1 |
| ## 1868 | 8.282230 | 0 | 0 | 10 | 16140 | 0 | 0 | 13 |
| ## 1869 | 7.788626 | 1 | 3 | 14 | 22560 | 0 | 0 | 10 |
| ## 1870 | 8.814330 | 0 | 0 | 7 | 3930 | 1156 | 1 | 10 |
| ## 1871 | 8.065265 | 2 | 3 | 15 | 18290 | 3639 | 2 | 19 |
| ## 1872 | 8.415160 | 0 | 3 | 11 | 9010 | 0 | 0 | 10 |
| ## 1875 | 7.217443 | 0 | 0 | 14 | 20200 | 5685 | 2 | 1 |
| ## 1876 | 7.922261 | 0 | 0 | 13 | 23530 | 0 | 0 | 21 |
| ## 1877 | 6.317165 | 0 | 0 | 0 | 6900 | 0 | 0 | 7 |
| ## 1878 | 9.003439 | 0 | 0 | 0 | 6800 | 1930 | 2 | 6 |
| ## 1879 | 8.235626 | 0 | 0 | 13 | 16640 | 10215 | 2 | 10 |
| ## 1880 | 8.601534 | 0 | 0 | 8 | 9030 | 0 | 0 | 9 |
| ## 1882 | 7.930925 | 0 | 0 | 11 | 28090 | 0 | 0 | 1 |
| ## 1883 | 7.304516 | 0 | 0 | 8 | 16710 | 8490 | 3 | 10 |
| ## 1885 | 8.129175 | 0 | 0 | 12 | 10480 | 27414 | 2 | 8 |

| | | | | | | | | |
|---------|----------|---|---|----|-------|-------|---|----|
| ## 1886 | 8.631073 | 0 | 0 | 13 | 7600 | 1904 | 3 | 6 |
| ## 1887 | 8.290293 | 1 | 3 | 12 | 24820 | 0 | 0 | 13 |
| ## 1888 | 8.381603 | 0 | 0 | 14 | 16810 | 1351 | 3 | 16 |
| ## 1889 | 7.136483 | 2 | 4 | 14 | 12160 | 0 | 0 | 6 |
| ## 1890 | 8.616858 | 0 | 0 | 9 | 24810 | 0 | 0 | 9 |
| ## 1891 | 8.240913 | 0 | 0 | 8 | 13260 | 26321 | 4 | 10 |
| ## 1894 | 8.721276 | 0 | 1 | 9 | 14340 | 0 | 0 | 7 |
| ## 1895 | 8.608313 | 0 | 0 | 11 | 33910 | 5464 | 3 | 13 |
| ## 1896 | 8.712595 | 0 | 0 | 16 | 17790 | 3902 | 2 | 15 |
| ## 1897 | 7.987185 | 0 | 2 | 12 | 15550 | 0 | 0 | 1 |
| ## 1898 | 8.578100 | 0 | 0 | 6 | 18210 | 7619 | 1 | 1 |
| ## 1899 | 8.273081 | 0 | 1 | 8 | 22810 | 4686 | 1 | 1 |
| ## 1901 | 8.625330 | 1 | 4 | 13 | 21510 | 3719 | 1 | 8 |
| ## 1902 | 8.455956 | 0 | 0 | 8 | 15180 | 3893 | 1 | 9 |
| ## 1904 | 8.286017 | 0 | 0 | 0 | 17890 | 0 | 0 | 5 |
| ## 1905 | 7.003065 | 0 | 0 | 13 | 4790 | 0 | 0 | 1 |
| ## 1906 | 9.819648 | 0 | 2 | 17 | 5700 | 0 | 0 | 7 |
| ## 1907 | 8.037866 | 0 | 3 | 0 | 6130 | 0 | 0 | 1 |
| ## 1908 | 8.688959 | 0 | 0 | 11 | 13190 | 6032 | 3 | 12 |
| ## 1909 | 9.031453 | 0 | 0 | 13 | 4980 | 7795 | 2 | 9 |
| ## 1910 | 5.568492 | 0 | 4 | 12 | 5400 | 2781 | 3 | 11 |
| ## 1913 | 8.660601 | 0 | 2 | 10 | 10130 | 28174 | 2 | 1 |
| ## 1914 | 8.566935 | 0 | 3 | 0 | 4300 | 0 | 0 | 6 |
| ## 1915 | 8.468045 | 0 | 3 | 15 | 8140 | 0 | 0 | 6 |
| ## 1916 | 6.732211 | 0 | 3 | 12 | 40520 | 0 | 0 | 6 |
| ## 1917 | 7.983781 | 0 | 0 | 13 | 14580 | 47097 | 3 | 18 |
| ## 1918 | 7.311218 | 0 | 0 | 11 | 20040 | 6713 | 3 | 14 |
| ## 1920 | 7.554335 | 0 | 0 | 12 | 18640 | 0 | 0 | 8 |
| ## 1921 | 7.967973 | 0 | 0 | 12 | 16760 | 7369 | 1 | 8 |
| ## 1923 | 8.867709 | 0 | 3 | 17 | 11630 | 0 | 0 | 11 |
| ## 1924 | 8.709795 | 0 | 0 | 13 | 15440 | 1125 | 1 | 11 |
| ## 1925 | 8.051468 | 0 | 1 | 11 | 19980 | 0 | 0 | 5 |
| ## 1926 | 8.535819 | 0 | 3 | 0 | 4950 | 8438 | 1 | 6 |
| ## 1927 | 7.329750 | 0 | 0 | 7 | 18680 | 0 | 0 | 17 |
| ## 1928 | 8.464425 | 0 | 0 | 13 | 27830 | 3589 | 1 | 10 |
| ## 1929 | 7.767642 | 1 | 1 | 10 | 21090 | 1942 | 1 | 6 |
| ## 1932 | 8.836665 | 0 | 2 | 11 | 4800 | 0 | 0 | 1 |
| ## 1933 | 8.116716 | 0 | 0 | 6 | 19980 | 0 | 0 | 8 |
| ## 1934 | 7.973155 | 1 | 2 | 10 | 10070 | 40958 | 1 | 1 |
| ## 1935 | 8.130942 | 0 | 0 | 9 | 12540 | 0 | 0 | 1 |
| ## 1936 | 7.877397 | 0 | 0 | 13 | 7620 | 5513 | 2 | 1 |
| ## 1937 | 8.819370 | 0 | 0 | 14 | 17520 | 0 | 0 | 8 |
| ## 1939 | 7.398618 | 0 | 0 | 10 | 7660 | 2054 | 2 | 1 |
| ## 1940 | 9.531511 | 1 | 2 | 9 | 15250 | 2213 | 3 | 6 |
| ## 1942 | 8.700348 | 0 | 0 | 0 | 14590 | 7540 | 3 | 19 |
| ## 1943 | 8.532476 | 0 | 1 | 12 | 10250 | 31332 | 5 | 11 |
| ## 1944 | 7.856320 | 0 | 0 | 13 | 27800 | 0 | 0 | 1 |
| ## 1945 | 7.799753 | 0 | 0 | 13 | 26470 | 0 | 0 | 1 |
| ## 1946 | 8.264621 | 0 | 1 | 13 | 16230 | 5330 | 1 | 1 |
| ## 1947 | 7.053586 | 0 | 0 | 12 | 22340 | 0 | 0 | 11 |
| ## 1948 | 7.508787 | 0 | 0 | 12 | 9680 | 0 | 0 | 9 |
| ## 1951 | 5.840199 | 0 | 2 | 16 | 19560 | 44029 | 4 | 18 |
| ## 1952 | 7.999343 | 1 | 3 | 14 | 22860 | 1361 | 2 | 13 |
| ## 1953 | 8.621193 | 0 | 0 | 9 | 38500 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 1954 | 10.868373 | 1 | 2 | 16 | 18100 | 4646 | 2 | 10 |
| ## 1955 | 8.433812 | 0 | 0 | 14 | 22180 | 0 | 0 | 15 |
| ## 1956 | 8.533854 | 0 | 0 | 14 | 6200 | 11068 | 3 | 1 |
| ## 1958 | 7.765569 | 0 | 3 | 0 | 16720 | 0 | 0 | 1 |
| ## 1959 | 8.274102 | 0 | 0 | 12 | 6400 | 3034 | 2 | 7 |
| ## 1961 | 8.578665 | 0 | 0 | 5 | 11240 | 0 | 0 | 1 |
| ## 1962 | 7.653020 | 0 | 0 | 11 | 7170 | 8547 | 1 | 8 |
| ## 1963 | 8.111328 | 1 | 2 | 14 | 18110 | 0 | 0 | 11 |
| ## 1964 | 7.612831 | 0 | 0 | 0 | 6200 | 4962 | 1 | 9 |
| ## 1965 | 8.094980 | 1 | 1 | 12 | 10600 | 9995 | 1 | 1 |
| ## 1966 | 8.798304 | 0 | 3 | 8 | 20150 | 0 | 0 | 1 |
| ## 1967 | 9.729292 | 1 | 1 | 17 | 11510 | 42970 | 1 | 1 |
| ## 1970 | 8.441823 | 0 | 0 | 12 | 29370 | 4174 | 2 | 15 |
| ## 1971 | 8.840580 | 0 | 0 | 0 | 18610 | 0 | 0 | 12 |
| ## 1972 | 8.674880 | 0 | 0 | 13 | 16530 | 5828 | 1 | 11 |
| ## 1973 | 6.731018 | 0 | 1 | 5 | 17800 | 5269 | 1 | 5 |
| ## 1974 | 8.103192 | 0 | 0 | 13 | 19260 | 0 | 0 | 6 |
| ## 1975 | 8.194506 | 0 | 0 | 9 | 16110 | 3062 | 1 | 1 |
| ## 1977 | 8.127405 | 1 | 1 | 7 | 21530 | 1913 | 1 | 1 |
| ## 1978 | 7.943783 | 0 | 0 | 13 | 22610 | 0 | 0 | 9 |
| ## 1980 | 6.562444 | 0 | 0 | 12 | 12150 | 0 | 0 | 10 |
| ## 1981 | 8.201495 | 0 | 0 | 13 | 16450 | 1064 | 2 | 3 |
| ## 1982 | 9.777265 | 0 | 1 | 10 | 14460 | 15697 | 2 | 10 |
| ## 1983 | 8.617943 | 0 | 1 | 0 | 15610 | 7857 | 2 | 1 |
| ## 1984 | 8.502891 | 0 | 0 | 6 | 14340 | 0 | 0 | 10 |
| ## 1985 | 8.321700 | 0 | 0 | 0 | 17050 | 2962 | 1 | 1 |
| ## 1986 | 8.719971 | 0 | 4 | 13 | 6650 | 0 | 0 | 6 |
| ## 1989 | 9.323052 | 0 | 0 | 0 | 29200 | 0 | 0 | 6 |
| ## 1990 | 8.254269 | 1 | 2 | 13 | 13660 | 4394 | 4 | 1 |
| ## 1991 | 8.427268 | 0 | 0 | 10 | 34210 | 2773 | 1 | 1 |
| ## 1992 | 8.427867 | 2 | 0 | 0 | 7270 | 2280 | 3 | 12 |
| ## 1993 | 8.848078 | 0 | 0 | 9 | 11210 | 7312 | 1 | 8 |
| ## 1994 | 8.972329 | 0 | 2 | 12 | 21980 | 1310 | 1 | 15 |
| ## 1996 | 8.261010 | 0 | 0 | 12 | 14610 | 0 | 0 | 10 |
| ## 1997 | 8.445053 | 0 | 0 | 11 | 13610 | 0 | 0 | 5 |
| ## 1999 | 8.849227 | 0 | 0 | 12 | 8510 | 5233 | 2 | 1 |
| ## 2000 | 8.596559 | 0 | 0 | 15 | 20320 | 21548 | 2 | 17 |
| ## 2001 | 8.772979 | 0 | 2 | 14 | 18040 | 0 | 0 | 11 |
| ## 2002 | 7.741099 | 0 | 0 | 11 | 21420 | 6440 | 1 | 8 |
| ## 2003 | 7.806696 | 0 | 3 | 10 | 11520 | 0 | 0 | 21 |
| ## 2004 | 8.687442 | 0 | 3 | 15 | 5000 | 3349 | 1 | 13 |
| ## 2005 | 8.289539 | 0 | 0 | 13 | 22930 | 0 | 0 | 17 |
| ## 2008 | 9.313606 | 0 | 0 | 14 | 18760 | 0 | 0 | 6 |
| ## 2009 | 6.938284 | 0 | 0 | 6 | 22450 | 4986 | 2 | 17 |
| ## 2010 | 8.956222 | 1 | 2 | 8 | 31350 | 1435 | 3 | 8 |
| ## 2011 | 8.933400 | 0 | 0 | 7 | 20200 | 2913 | 1 | 1 |
| ## 2012 | 7.819636 | 0 | 0 | 11 | 8200 | 25355 | 2 | 1 |
| ## 2013 | 8.026170 | 0 | 0 | 12 | 10730 | 0 | 0 | 1 |
| ## 2015 | 8.318986 | 0 | 0 | 14 | 23050 | 0 | 0 | 9 |
| ## 2016 | 8.673513 | 0 | 2 | 11 | 13250 | 7716 | 3 | 8 |
| ## 2018 | 8.909235 | 0 | 0 | 14 | 28330 | 607 | 3 | 7 |
| ## 2019 | 7.573531 | 1 | 2 | 10 | 18900 | 0 | 0 | 1 |
| ## 2020 | 8.529912 | 3 | 4 | 16 | 13070 | 3664 | 1 | 1 |
| ## 2021 | 8.706159 | 0 | 4 | 15 | 13990 | 2551 | 2 | 8 |

| | | | | | | | | |
|---------|-----------|---|---|----|-------|-------|---|----|
| ## 2022 | 8.526549 | 0 | 0 | 3 | 23780 | 3808 | 2 | 9 |
| ## 2023 | 7.822845 | 0 | 0 | 11 | 17030 | 2938 | 1 | 9 |
| ## 2024 | 6.761573 | 0 | 2 | 11 | 8450 | 0 | 0 | 1 |
| ## 2027 | 8.829519 | 0 | 0 | 12 | 16690 | 0 | 0 | 16 |
| ## 2028 | 8.392763 | 0 | 0 | 12 | 9070 | 0 | 0 | 7 |
| ## 2029 | 10.564890 | 0 | 0 | 9 | 28260 | 3320 | 2 | 13 |
| ## 2030 | 8.703175 | 0 | 0 | 0 | 22070 | 0 | 0 | 1 |
| ## 2031 | 8.185629 | 0 | 0 | 15 | 20750 | 0 | 0 | 15 |
| ## 2032 | 8.653122 | 0 | 2 | 13 | 19150 | 32871 | 1 | 8 |
| ## 2034 | 7.885329 | 0 | 0 | 13 | 11130 | 5712 | 4 | 1 |
| ## 2035 | 7.968320 | 2 | 3 | 7 | 12330 | 0 | 0 | 9 |
| ## 2037 | 7.867021 | 0 | 3 | 16 | 4900 | 0 | 0 | 1 |
| ## 2038 | 11.586047 | 0 | 0 | 11 | 18110 | 2060 | 3 | 3 |
| ## 2039 | 8.341172 | 0 | 4 | 16 | 2340 | 6013 | 2 | 8 |
| ## 2040 | 8.920419 | 0 | 0 | 11 | 21170 | 0 | 0 | 15 |
| ## 2041 | 9.184196 | 2 | 2 | 6 | 7370 | 3588 | 3 | 4 |
| ## 2042 | 9.076580 | 0 | 0 | 14 | 9040 | 0 | 0 | 1 |
| ## 2043 | 7.598399 | 0 | 2 | 0 | 5500 | 0 | 0 | 11 |
| ## 2046 | 7.212294 | 0 | 0 | 14 | 22740 | 0 | 0 | 1 |
| ## 2047 | 6.993015 | 0 | 3 | 15 | 3900 | 0 | 0 | 1 |
| ## 2048 | 8.240121 | 0 | 0 | 12 | 5730 | 32025 | 3 | 6 |
| ## 2049 | 8.329417 | 0 | 2 | 13 | 5400 | 7415 | 3 | 4 |
| ## 2050 | 8.367068 | 1 | 2 | 15 | 30870 | 41476 | 1 | 12 |
| ## 2051 | 7.614312 | 0 | 0 | 15 | 13060 | 23213 | 2 | 8 |
| ## 2053 | 6.912956 | 0 | 0 | 0 | 3430 | 0 | 0 | 11 |
| ## 2054 | 8.751316 | 0 | 4 | 0 | 13900 | 3682 | 3 | 8 |
| ## 2056 | 9.436385 | 1 | 2 | 8 | 19050 | 0 | 0 | 13 |
| ## 2057 | 8.512984 | 0 | 0 | 6 | 22610 | 2161 | 2 | 8 |
| ## 2058 | 7.004882 | 0 | 0 | 14 | 27620 | 0 | 0 | 6 |
| ## 2059 | 8.518592 | 0 | 1 | 12 | 8850 | 31658 | 2 | 10 |
| ## 2060 | 8.334952 | 0 | 0 | 14 | 8900 | 6281 | 2 | 8 |
| ## 2061 | 7.821242 | 0 | 0 | 9 | 9640 | 33018 | 2 | 7 |
| ## 2062 | 8.237479 | 0 | 0 | 12 | 9800 | 30167 | 3 | 11 |
| ## 2065 | 8.488588 | 0 | 0 | 13 | 34800 | 3306 | 2 | 11 |
| ## 2066 | 8.706490 | 1 | 1 | 15 | 11490 | 25260 | 1 | 2 |
| ## 2067 | 8.938354 | 0 | 0 | 11 | 8020 | 846 | 1 | 1 |
| ## 2068 | 7.914983 | 0 | 0 | 9 | 6620 | 4093 | 3 | 8 |
| ## 2069 | 8.505323 | 0 | 0 | 12 | 14140 | 40023 | 3 | 1 |
| ## 2070 | 7.518607 | 0 | 0 | 7 | 13780 | 8593 | 3 | 9 |
| ## 2072 | 7.832808 | 3 | 3 | 13 | 28630 | 3440 | 1 | 16 |
| ## 2073 | 8.877661 | 0 | 0 | 9 | 20390 | 0 | 0 | 7 |
| ## 2075 | 7.295056 | 0 | 0 | 10 | 11550 | 17831 | 2 | 13 |
| ## 2076 | 7.206377 | 2 | 2 | 14 | 6420 | 12003 | 2 | 1 |
| ## 2077 | 8.871084 | 0 | 0 | 7 | 7030 | 0 | 0 | 1 |
| ## 2078 | 8.489822 | 0 | 0 | 11 | 18430 | 0 | 0 | 10 |
| ## 2079 | 7.890208 | 0 | 0 | 9 | 7420 | 4274 | 3 | 21 |
| ## 2080 | 8.188411 | 0 | 0 | 11 | 5020 | 2225 | 3 | 9 |
| ## 2081 | 8.257904 | 2 | 3 | 12 | 10580 | 8829 | 2 | 18 |
| ## 2084 | 8.543640 | 0 | 0 | 14 | 6690 | 0 | 0 | 14 |
| ## 2085 | 8.222822 | 0 | 0 | 12 | 8790 | 0 | 0 | 10 |
| ## 2086 | 9.582522 | 0 | 0 | 0 | 13030 | 2334 | 1 | 15 |
| ## 2087 | 7.463363 | 0 | 2 | 15 | 6090 | 2312 | 3 | 7 |
| ## 2088 | 8.527539 | 0 | 0 | 12 | 5200 | 1020 | 1 | 1 |
| ## 2089 | 8.171317 | 0 | 0 | 11 | 10630 | 0 | 0 | 1 |

| | | | | | | | | |
|---------|-------------|----------------------|-------------|----|------------------------|-------|---|----|
| ## 2091 | 8.179480 | 0 | 2 | 0 | 4000 | 9870 | 2 | 1 |
| ## 2092 | 8.993055 | 0 | 0 | 7 | 22820 | 0 | 0 | 12 |
| ## 2094 | 9.628810 | 2 | 2 | 13 | 23610 | 30328 | 1 | 16 |
| ## 2095 | 7.842279 | 0 | 0 | 12 | 14500 | 48298 | 1 | 20 |
| ## 2096 | 7.635787 | 0 | 0 | 10 | 21170 | 20699 | 2 | 8 |
| ## 2097 | 7.261927 | 0 | 0 | 0 | 12540 | 25429 | 2 | 11 |
| ## 2098 | 7.183112 | 1 | 1 | 0 | 6900 | 0 | 0 | 10 |
| ## 2099 | 9.254678 | 0 | 0 | 6 | 17630 | 0 | 0 | 1 |
| ## 2100 | 8.793005 | 0 | 0 | 12 | 13960 | 34479 | 3 | 4 |
| ## 2103 | 10.173054 | 0 | 1 | 14 | 36980 | 0 | 0 | 5 |
| ## 2104 | 6.253829 | 0 | 2 | 11 | 8620 | 0 | 0 | 1 |
| ## 2105 | 7.157269 | 0 | 0 | 0 | 21490 | 47096 | 2 | 1 |
| ## 2106 | 8.881420 | 0 | 2 | 0 | 5800 | 792 | 2 | 1 |
| ## 2107 | 8.108021 | 0 | 0 | 13 | 4610 | 1852 | 2 | 6 |
| ## 2108 | 7.384610 | 0 | 0 | 11 | 7000 | 621 | 3 | 1 |
| ## 2110 | 7.175490 | 0 | 0 | 15 | 31570 | 0 | 0 | 1 |
| ## 2111 | 8.445482 | 0 | 1 | 14 | 12500 | 8963 | 1 | 7 |
| ## 2113 | 8.160804 | 0 | 0 | 14 | 27450 | 3689 | 4 | 18 |
| ## 2114 | 8.635332 | 0 | 0 | 10 | 12790 | 4538 | 4 | 11 |
| ## 2115 | 8.281218 | 0 | 1 | 12 | 26750 | 48873 | 2 | 24 |
| ## 2116 | 8.413165 | 0 | 1 | 7 | 11890 | 0 | 0 | 9 |
| ## 2117 | 8.715552 | 3 | 5 | 14 | 16570 | 7621 | 2 | 1 |
| ## 2118 | 8.788898 | 2 | 3 | 18 | 18780 | 23486 | 2 | 1 |
| ## 2119 | 8.489411 | 0 | 0 | 12 | 5700 | 8256 | 3 | 1 |
| ## 2122 | 8.293800 | 0 | 0 | 7 | 7820 | 0 | 0 | 18 |
| ## 2123 | 9.051579 | 0 | 0 | 11 | 16020 | 7629 | 2 | 9 |
| ## 2124 | 7.676010 | 0 | 0 | 11 | 9870 | 3296 | 1 | 1 |
| ## 2125 | 7.821242 | 0 | 0 | 13 | 18780 | 4188 | 2 | 1 |
| ## 2126 | 7.962067 | 2 | 2 | 12 | 10160 | 0 | 0 | 1 |
| ## 2127 | 8.463370 | 0 | 0 | 6 | 16810 | 0 | 0 | 11 |
| ## 2129 | 6.183118 | 2 | 2 | 12 | 25960 | 0 | 0 | 1 |
| ## 2130 | 8.466531 | 0 | 0 | 13 | 9260 | 2102 | 1 | 1 |
| ## 2132 | 8.140898 | 0 | 1 | 0 | 4750 | 4074 | 1 | 9 |
| ## 2133 | 10.820430 | 0 | 0 | 10 | 12600 | 0 | 0 | 6 |
| ## 2134 | 8.006603 | 0 | 0 | 15 | 15320 | 0 | 0 | 7 |
| ## 2135 | 8.691146 | 0 | 0 | 14 | 9730 | 0 | 0 | 11 |
| ## 2136 | 8.355615 | 2 | 2 | 13 | 19970 | 18287 | 3 | 11 |
| ## 2137 | 7.741181 | 1 | 1 | 10 | 13930 | 9537 | 2 | 16 |
| ## 2138 | 8.488382 | 0 | 3 | 0 | 5700 | 0 | 0 | 1 |
| ## 2141 | 8.551595 | 0 | 0 | 11 | 5730 | 0 | 0 | 11 |
| ## 2142 | 8.145840 | 0 | 0 | 13 | 17110 | 9550 | 2 | 13 |
| ## 2143 | 7.845024 | 0 | 0 | 14 | 14670 | 0 | 0 | 7 |
| ## 2144 | 6.793466 | 0 | 0 | 15 | 13420 | 1255 | 4 | 1 |
| ## 2145 | 7.405496 | 1 | 1 | 15 | 20850 | 0 | 0 | 9 |
| ## 2146 | 8.896725 | 1 | 2 | 14 | 26470 | 0 | 0 | 6 |
| ## 2148 | 8.064322 | 0 | 0 | 10 | 24020 | 22762 | 1 | 20 |
| ## 2149 | 8.041091 | 0 | 0 | 13 | 34420 | 0 | 0 | 16 |
| ## 2151 | 8.050384 | 0 | 0 | 10 | 12940 | 6560 | 3 | 11 |
| ## 2152 | 7.503954 | 0 | 0 | 12 | 1500 | 0 | 0 | 10 |
| ## 2153 | 7.995307 | 0 | 0 | 11 | 11300 | 16239 | 2 | 1 |
| ## | MSTATUS_Yes | CAR_TYPE_Panel.Truck | REVOKED_Yes | | EDUCATION_.High.School | | | |
| ## 1 | 0 | 0 | 0 | | 0 | | 0 | |
| ## 3 | 0 | 0 | 0 | | 0 | | 0 | |
| ## 4 | 0 | 0 | 0 | | 0 | | 0 | |

| | | | | |
|-------|---|---|---|---|
| ## 5 | 0 | 1 | 0 | 0 |
| ## 6 | 1 | 0 | 0 | 1 |
| ## 7 | 1 | 0 | 0 | 0 |
| ## 8 | 1 | 1 | 0 | 1 |
| ## 9 | 1 | 0 | 0 | 0 |
| ## 12 | 1 | 0 | 1 | 0 |
| ## 13 | 0 | 0 | 0 | 0 |
| ## 14 | 1 | 0 | 0 | 0 |
| ## 15 | 0 | 0 | 1 | 1 |
| ## 16 | 0 | 0 | 0 | 0 |
| ## 17 | 0 | 0 | 0 | 0 |
| ## 19 | 1 | 0 | 0 | 0 |
| ## 20 | 1 | 0 | 0 | 0 |
| ## 22 | 1 | 0 | 0 | 0 |
| ## 23 | 0 | 1 | 0 | 0 |
| ## 24 | 0 | 0 | 0 | 0 |
| ## 25 | 1 | 0 | 0 | 0 |
| ## 26 | 1 | 0 | 0 | 0 |
| ## 27 | 1 | 0 | 0 | 1 |
| ## 28 | 0 | 0 | 0 | 0 |
| ## 31 | 0 | 0 | 1 | 0 |
| ## 32 | 0 | 0 | 0 | 1 |
| ## 33 | 0 | 0 | 0 | 0 |
| ## 34 | 1 | 0 | 1 | 1 |
| ## 35 | 1 | 0 | 0 | 0 |
| ## 36 | 0 | 0 | 0 | 0 |
| ## 38 | 0 | 0 | 1 | 0 |
| ## 39 | 1 | 0 | 0 | 0 |
| ## 41 | 0 | 0 | 1 | 0 |
| ## 42 | 1 | 0 | 0 | 0 |
| ## 43 | 0 | 1 | 1 | 0 |
| ## 44 | 1 | 0 | 0 | 1 |
| ## 45 | 1 | 0 | 0 | 1 |
| ## 46 | 0 | 0 | 0 | 0 |
| ## 47 | 0 | 0 | 0 | 0 |
| ## 50 | 0 | 0 | 0 | 1 |
| ## 51 | 1 | 0 | 1 | 1 |
| ## 52 | 0 | 0 | 0 | 0 |
| ## 53 | 1 | 0 | 0 | 0 |
| ## 54 | 1 | 0 | 0 | 0 |
| ## 55 | 0 | 0 | 0 | 0 |
| ## 57 | 0 | 0 | 0 | 1 |
| ## 58 | 1 | 0 | 0 | 0 |
| ## 60 | 0 | 0 | 0 | 0 |
| ## 61 | 0 | 0 | 0 | 0 |
| ## 62 | 0 | 0 | 0 | 0 |
| ## 63 | 1 | 1 | 0 | 0 |
| ## 64 | 0 | 0 | 0 | 0 |
| ## 65 | 0 | 0 | 0 | 0 |
| ## 66 | 0 | 0 | 1 | 1 |
| ## 69 | 1 | 0 | 1 | 0 |
| ## 70 | 1 | 0 | 0 | 0 |
| ## 71 | 1 | 0 | 0 | 0 |
| ## 72 | 0 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 73 | 0 | 0 | 0 | 0 |
| ## 74 | 1 | 0 | 0 | 0 |
| ## 76 | 1 | 0 | 1 | 0 |
| ## 77 | 0 | 0 | 0 | 0 |
| ## 79 | 1 | 0 | 0 | 0 |
| ## 80 | 1 | 0 | 0 | 0 |
| ## 81 | 0 | 1 | 0 | 0 |
| ## 82 | 1 | 0 | 0 | 0 |
| ## 83 | 1 | 0 | 1 | 0 |
| ## 84 | 0 | 1 | 0 | 0 |
| ## 85 | 0 | 1 | 1 | 1 |
| ## 88 | 0 | 0 | 0 | 1 |
| ## 89 | 1 | 0 | 1 | 1 |
| ## 90 | 1 | 0 | 1 | 0 |
| ## 91 | 1 | 0 | 0 | 0 |
| ## 92 | 0 | 1 | 0 | 0 |
| ## 93 | 1 | 0 | 0 | 0 |
| ## 95 | 1 | 0 | 0 | 0 |
| ## 96 | 1 | 0 | 0 | 0 |
| ## 98 | 1 | 0 | 0 | 0 |
| ## 99 | 0 | 0 | 0 | 0 |
| ## 100 | 0 | 0 | 0 | 0 |
| ## 101 | 0 | 0 | 1 | 0 |
| ## 102 | 1 | 0 | 0 | 1 |
| ## 103 | 1 | 0 | 1 | 1 |
| ## 104 | 1 | 0 | 1 | 0 |
| ## 107 | 1 | 0 | 1 | 0 |
| ## 108 | 1 | 0 | 0 | 0 |
| ## 109 | 1 | 0 | 0 | 1 |
| ## 110 | 0 | 0 | 1 | 0 |
| ## 111 | 0 | 0 | 0 | 0 |
| ## 112 | 0 | 0 | 0 | 0 |
| ## 114 | 1 | 0 | 0 | 0 |
| ## 115 | 1 | 0 | 0 | 0 |
| ## 117 | 1 | 0 | 0 | 0 |
| ## 118 | 0 | 0 | 0 | 0 |
| ## 119 | 0 | 0 | 0 | 1 |
| ## 120 | 1 | 0 | 0 | 1 |
| ## 121 | 1 | 0 | 0 | 0 |
| ## 122 | 0 | 0 | 1 | 0 |
| ## 123 | 1 | 0 | 0 | 0 |
| ## 126 | 0 | 0 | 1 | 0 |
| ## 127 | 0 | 0 | 0 | 0 |
| ## 128 | 1 | 0 | 1 | 0 |
| ## 129 | 0 | 0 | 0 | 1 |
| ## 130 | 1 | 0 | 0 | 0 |
| ## 131 | 0 | 1 | 1 | 0 |
| ## 133 | 0 | 0 | 0 | 0 |
| ## 134 | 0 | 0 | 1 | 0 |
| ## 136 | 1 | 0 | 1 | 0 |
| ## 137 | 0 | 0 | 0 | 0 |
| ## 138 | 0 | 0 | 0 | 0 |
| ## 139 | 1 | 1 | 0 | 0 |
| ## 140 | 0 | 0 | 0 | 1 |

| | | | | |
|--------|---|---|---|---|
| ## 141 | 0 | 0 | 0 | 0 |
| ## 142 | 0 | 0 | 0 | 0 |
| ## 145 | 1 | 0 | 0 | 1 |
| ## 146 | 1 | 0 | 1 | 0 |
| ## 147 | 0 | 0 | 0 | 0 |
| ## 148 | 0 | 0 | 0 | 0 |
| ## 149 | 0 | 0 | 0 | 0 |
| ## 150 | 0 | 1 | 0 | 0 |
| ## 152 | 1 | 0 | 0 | 0 |
| ## 153 | 0 | 0 | 0 | 0 |
| ## 155 | 0 | 0 | 0 | 1 |
| ## 156 | 0 | 0 | 0 | 0 |
| ## 157 | 0 | 0 | 0 | 0 |
| ## 158 | 1 | 0 | 1 | 0 |
| ## 159 | 0 | 0 | 0 | 0 |
| ## 160 | 0 | 0 | 0 | 1 |
| ## 161 | 0 | 0 | 0 | 0 |
| ## 164 | 1 | 0 | 0 | 0 |
| ## 165 | 1 | 0 | 1 | 0 |
| ## 166 | 0 | 0 | 1 | 0 |
| ## 167 | 0 | 0 | 0 | 0 |
| ## 168 | 1 | 0 | 0 | 0 |
| ## 169 | 0 | 0 | 0 | 0 |
| ## 171 | 1 | 0 | 0 | 0 |
| ## 172 | 1 | 0 | 0 | 0 |
| ## 174 | 0 | 0 | 0 | 0 |
| ## 175 | 0 | 0 | 1 | 0 |
| ## 176 | 0 | 0 | 0 | 0 |
| ## 177 | 1 | 0 | 0 | 0 |
| ## 178 | 1 | 0 | 1 | 0 |
| ## 179 | 1 | 0 | 1 | 0 |
| ## 180 | 1 | 0 | 0 | 0 |
| ## 183 | 0 | 0 | 0 | 0 |
| ## 184 | 1 | 1 | 0 | 0 |
| ## 185 | 1 | 0 | 0 | 0 |
| ## 186 | 1 | 0 | 0 | 0 |
| ## 187 | 1 | 0 | 0 | 0 |
| ## 188 | 0 | 0 | 0 | 0 |
| ## 190 | 0 | 0 | 1 | 0 |
| ## 191 | 1 | 0 | 0 | 0 |
| ## 193 | 0 | 0 | 0 | 0 |
| ## 194 | 1 | 0 | 1 | 0 |
| ## 195 | 0 | 0 | 0 | 0 |
| ## 196 | 1 | 0 | 0 | 0 |
| ## 197 | 0 | 0 | 0 | 0 |
| ## 198 | 0 | 0 | 0 | 0 |
| ## 199 | 1 | 0 | 0 | 0 |
| ## 202 | 1 | 0 | 0 | 0 |
| ## 203 | 1 | 0 | 0 | 0 |
| ## 204 | 0 | 0 | 0 | 0 |
| ## 205 | 0 | 0 | 1 | 0 |
| ## 206 | 0 | 0 | 0 | 0 |
| ## 207 | 0 | 0 | 0 | 0 |
| ## 209 | 0 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 210 | 1 | 0 | 0 | 0 |
| ## 212 | 1 | 0 | 0 | 0 |
| ## 213 | 0 | 0 | 0 | 0 |
| ## 214 | 1 | 0 | 0 | 0 |
| ## 215 | 1 | 0 | 0 | 0 |
| ## 216 | 1 | 0 | 0 | 0 |
| ## 217 | 0 | 0 | 0 | 0 |
| ## 218 | 0 | 0 | 0 | 0 |
| ## 221 | 0 | 0 | 0 | 0 |
| ## 222 | 1 | 0 | 1 | 0 |
| ## 223 | 1 | 0 | 0 | 0 |
| ## 224 | 0 | 0 | 1 | 0 |
| ## 225 | 0 | 0 | 0 | 1 |
| ## 226 | 1 | 0 | 0 | 0 |
| ## 228 | 0 | 1 | 0 | 0 |
| ## 229 | 1 | 0 | 0 | 0 |
| ## 231 | 0 | 0 | 0 | 0 |
| ## 232 | 1 | 0 | 1 | 0 |
| ## 233 | 1 | 0 | 0 | 0 |
| ## 234 | 0 | 0 | 0 | 0 |
| ## 235 | 0 | 0 | 0 | 0 |
| ## 236 | 1 | 0 | 0 | 0 |
| ## 237 | 1 | 0 | 0 | 0 |
| ## 240 | 1 | 0 | 1 | 0 |
| ## 241 | 1 | 0 | 0 | 0 |
| ## 242 | 1 | 0 | 0 | 1 |
| ## 243 | 1 | 0 | 0 | 0 |
| ## 244 | 1 | 0 | 1 | 0 |
| ## 245 | 1 | 1 | 1 | 0 |
| ## 247 | 1 | 0 | 0 | 0 |
| ## 248 | 1 | 0 | 0 | 1 |
| ## 250 | 1 | 0 | 1 | 0 |
| ## 251 | 0 | 0 | 0 | 0 |
| ## 252 | 1 | 0 | 1 | 0 |
| ## 253 | 0 | 0 | 0 | 1 |
| ## 254 | 1 | 0 | 1 | 1 |
| ## 255 | 0 | 0 | 0 | 0 |
| ## 256 | 0 | 0 | 0 | 1 |
| ## 259 | 0 | 0 | 0 | 0 |
| ## 260 | 1 | 0 | 0 | 0 |
| ## 261 | 1 | 0 | 0 | 0 |
| ## 262 | 0 | 0 | 0 | 0 |
| ## 263 | 1 | 0 | 1 | 1 |
| ## 264 | 0 | 0 | 0 | 0 |
| ## 266 | 1 | 0 | 0 | 0 |
| ## 267 | 0 | 0 | 0 | 1 |
| ## 269 | 1 | 0 | 0 | 0 |
| ## 270 | 0 | 0 | 0 | 1 |
| ## 271 | 1 | 0 | 0 | 1 |
| ## 272 | 1 | 0 | 1 | 0 |
| ## 273 | 0 | 0 | 0 | 1 |
| ## 274 | 0 | 0 | 0 | 0 |
| ## 275 | 0 | 0 | 0 | 1 |
| ## 278 | 1 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 279 | 0 | 0 | 1 | 1 |
| ## 280 | 1 | 0 | 0 | 0 |
| ## 281 | 1 | 0 | 0 | 0 |
| ## 282 | 1 | 0 | 0 | 0 |
| ## 283 | 1 | 0 | 0 | 0 |
| ## 285 | 0 | 0 | 0 | 0 |
| ## 286 | 0 | 0 | 0 | 0 |
| ## 288 | 1 | 0 | 0 | 0 |
| ## 289 | 1 | 0 | 0 | 0 |
| ## 290 | 0 | 0 | 0 | 0 |
| ## 291 | 1 | 0 | 1 | 1 |
| ## 292 | 1 | 0 | 0 | 0 |
| ## 293 | 0 | 0 | 1 | 1 |
| ## 294 | 1 | 0 | 0 | 0 |
| ## 297 | 1 | 0 | 0 | 0 |
| ## 298 | 1 | 0 | 0 | 0 |
| ## 299 | 0 | 0 | 0 | 1 |
| ## 300 | 0 | 0 | 0 | 0 |
| ## 301 | 1 | 0 | 1 | 0 |
| ## 302 | 0 | 0 | 1 | 0 |
| ## 304 | 1 | 0 | 0 | 0 |
| ## 305 | 1 | 0 | 1 | 0 |
| ## 307 | 1 | 0 | 0 | 1 |
| ## 308 | 0 | 0 | 0 | 0 |
| ## 309 | 0 | 0 | 0 | 0 |
| ## 310 | 1 | 0 | 0 | 0 |
| ## 311 | 1 | 0 | 0 | 1 |
| ## 312 | 1 | 0 | 0 | 0 |
| ## 313 | 1 | 0 | 1 | 0 |
| ## 316 | 0 | 0 | 0 | 0 |
| ## 317 | 1 | 0 | 0 | 0 |
| ## 318 | 0 | 0 | 1 | 0 |
| ## 319 | 1 | 0 | 0 | 0 |
| ## 320 | 0 | 1 | 0 | 0 |
| ## 321 | 1 | 0 | 0 | 0 |
| ## 323 | 1 | 0 | 1 | 0 |
| ## 324 | 1 | 0 | 0 | 0 |
| ## 326 | 0 | 0 | 1 | 0 |
| ## 327 | 0 | 0 | 0 | 1 |
| ## 328 | 0 | 0 | 1 | 0 |
| ## 329 | 0 | 0 | 1 | 0 |
| ## 330 | 0 | 0 | 0 | 0 |
| ## 331 | 0 | 0 | 0 | 0 |
| ## 332 | 1 | 0 | 0 | 0 |
| ## 335 | 1 | 0 | 0 | 0 |
| ## 336 | 0 | 0 | 0 | 0 |
| ## 337 | 0 | 0 | 0 | 1 |
| ## 338 | 1 | 0 | 0 | 0 |
| ## 339 | 0 | 1 | 0 | 0 |
| ## 340 | 0 | 1 | 0 | 0 |
| ## 342 | 1 | 0 | 0 | 1 |
| ## 343 | 0 | 0 | 0 | 0 |
| ## 345 | 1 | 0 | 0 | 0 |
| ## 346 | 0 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 347 | 0 | 0 | 1 | 0 |
| ## 348 | 1 | 0 | 0 | 1 |
| ## 349 | 0 | 0 | 0 | 0 |
| ## 350 | 1 | 0 | 0 | 0 |
| ## 351 | 0 | 0 | 1 | 0 |
| ## 354 | 0 | 0 | 0 | 1 |
| ## 355 | 1 | 0 | 0 | 0 |
| ## 356 | 0 | 0 | 0 | 0 |
| ## 357 | 0 | 0 | 0 | 0 |
| ## 358 | 0 | 0 | 0 | 0 |
| ## 359 | 1 | 0 | 0 | 1 |
| ## 361 | 1 | 0 | 1 | 0 |
| ## 362 | 0 | 0 | 1 | 0 |
| ## 364 | 1 | 0 | 0 | 0 |
| ## 365 | 0 | 0 | 0 | 0 |
| ## 366 | 1 | 0 | 0 | 1 |
| ## 367 | 0 | 0 | 1 | 0 |
| ## 368 | 1 | 0 | 0 | 0 |
| ## 369 | 1 | 0 | 1 | 1 |
| ## 370 | 0 | 0 | 0 | 0 |
| ## 373 | 0 | 0 | 0 | 0 |
| ## 374 | 0 | 0 | 0 | 0 |
| ## 375 | 0 | 0 | 0 | 0 |
| ## 376 | 1 | 0 | 0 | 0 |
| ## 377 | 1 | 0 | 1 | 0 |
| ## 378 | 1 | 0 | 0 | 0 |
| ## 380 | 1 | 0 | 1 | 0 |
| ## 381 | 0 | 0 | 0 | 0 |
| ## 383 | 0 | 0 | 0 | 0 |
| ## 384 | 1 | 0 | 0 | 1 |
| ## 385 | 0 | 0 | 0 | 0 |
| ## 386 | 0 | 0 | 0 | 0 |
| ## 387 | 0 | 1 | 0 | 0 |
| ## 388 | 0 | 0 | 1 | 0 |
| ## 389 | 1 | 0 | 0 | 0 |
| ## 392 | 1 | 1 | 0 | 0 |
| ## 393 | 0 | 0 | 0 | 0 |
| ## 394 | 1 | 0 | 0 | 0 |
| ## 395 | 1 | 0 | 1 | 0 |
| ## 396 | 1 | 0 | 0 | 0 |
| ## 397 | 1 | 0 | 0 | 0 |
| ## 399 | 0 | 0 | 0 | 1 |
| ## 400 | 0 | 0 | 1 | 0 |
| ## 402 | 1 | 0 | 0 | 1 |
| ## 403 | 1 | 0 | 0 | 0 |
| ## 404 | 1 | 0 | 0 | 0 |
| ## 405 | 0 | 0 | 0 | 0 |
| ## 406 | 0 | 0 | 0 | 0 |
| ## 407 | 0 | 0 | 0 | 0 |
| ## 408 | 1 | 0 | 0 | 0 |
| ## 411 | 1 | 0 | 0 | 0 |
| ## 412 | 1 | 0 | 0 | 0 |
| ## 413 | 0 | 0 | 0 | 0 |
| ## 414 | 0 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 415 | 1 | 0 | 0 | 1 |
| ## 416 | 0 | 0 | 0 | 0 |
| ## 418 | 0 | 0 | 0 | 0 |
| ## 419 | 0 | 0 | 0 | 0 |
| ## 421 | 1 | 0 | 0 | 0 |
| ## 422 | 1 | 0 | 0 | 0 |
| ## 423 | 1 | 0 | 0 | 0 |
| ## 424 | 0 | 0 | 0 | 0 |
| ## 425 | 1 | 0 | 0 | 0 |
| ## 426 | 0 | 0 | 0 | 0 |
| ## 427 | 1 | 0 | 0 | 0 |
| ## 430 | 1 | 0 | 0 | 0 |
| ## 431 | 1 | 0 | 0 | 0 |
| ## 432 | 0 | 0 | 0 | 0 |
| ## 433 | 1 | 0 | 0 | 1 |
| ## 434 | 1 | 0 | 0 | 1 |
| ## 435 | 1 | 0 | 0 | 0 |
| ## 437 | 1 | 0 | 0 | 0 |
| ## 438 | 0 | 0 | 0 | 0 |
| ## 440 | 1 | 0 | 1 | 0 |
| ## 441 | 0 | 0 | 1 | 0 |
| ## 442 | 0 | 1 | 1 | 0 |
| ## 443 | 0 | 0 | 1 | 0 |
| ## 444 | 1 | 0 | 0 | 0 |
| ## 445 | 0 | 0 | 0 | 0 |
| ## 446 | 1 | 0 | 0 | 1 |
| ## 449 | 0 | 0 | 0 | 0 |
| ## 450 | 0 | 0 | 0 | 0 |
| ## 451 | 0 | 0 | 0 | 0 |
| ## 452 | 1 | 0 | 1 | 0 |
| ## 453 | 0 | 0 | 0 | 1 |
| ## 454 | 1 | 0 | 0 | 0 |
| ## 456 | 0 | 0 | 0 | 1 |
| ## 457 | 0 | 0 | 0 | 0 |
| ## 459 | 1 | 0 | 0 | 0 |
| ## 460 | 0 | 0 | 0 | 0 |
| ## 461 | 1 | 0 | 0 | 0 |
| ## 462 | 1 | 0 | 1 | 0 |
| ## 463 | 1 | 0 | 1 | 0 |
| ## 464 | 0 | 0 | 0 | 0 |
| ## 465 | 0 | 0 | 0 | 1 |
| ## 468 | 0 | 0 | 1 | 0 |
| ## 469 | 1 | 0 | 1 | 1 |
| ## 470 | 0 | 0 | 1 | 0 |
| ## 471 | 0 | 0 | 0 | 0 |
| ## 472 | 0 | 0 | 0 | 0 |
| ## 473 | 1 | 0 | 0 | 0 |
| ## 475 | 0 | 0 | 0 | 1 |
| ## 476 | 1 | 0 | 0 | 0 |
| ## 478 | 0 | 0 | 0 | 0 |
| ## 479 | 0 | 0 | 1 | 0 |
| ## 480 | 0 | 0 | 1 | 0 |
| ## 481 | 0 | 0 | 0 | 0 |
| ## 482 | 1 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 483 | 0 | 0 | 0 | 1 |
| ## 484 | 1 | 0 | 0 | 0 |
| ## 487 | 1 | 0 | 0 | 0 |
| ## 488 | 1 | 0 | 0 | 0 |
| ## 489 | 1 | 0 | 0 | 0 |
| ## 490 | 0 | 0 | 0 | 1 |
| ## 491 | 1 | 0 | 1 | 0 |
| ## 492 | 1 | 0 | 0 | 0 |
| ## 494 | 0 | 1 | 0 | 0 |
| ## 495 | 1 | 0 | 0 | 0 |
| ## 497 | 0 | 0 | 1 | 0 |
| ## 498 | 0 | 0 | 0 | 0 |
| ## 499 | 0 | 0 | 1 | 0 |
| ## 500 | 0 | 0 | 0 | 1 |
| ## 501 | 0 | 0 | 0 | 0 |
| ## 502 | 1 | 0 | 0 | 0 |
| ## 503 | 0 | 1 | 0 | 1 |
| ## 506 | 1 | 0 | 0 | 0 |
| ## 507 | 0 | 0 | 0 | 0 |
| ## 508 | 1 | 0 | 0 | 0 |
| ## 509 | 0 | 0 | 0 | 0 |
| ## 510 | 1 | 0 | 0 | 0 |
| ## 511 | 1 | 0 | 0 | 0 |
| ## 513 | 1 | 0 | 1 | 1 |
| ## 514 | 0 | 0 | 0 | 0 |
| ## 516 | 1 | 0 | 0 | 0 |
| ## 517 | 0 | 0 | 0 | 1 |
| ## 518 | 0 | 0 | 1 | 0 |
| ## 519 | 0 | 1 | 0 | 0 |
| ## 520 | 0 | 0 | 1 | 0 |
| ## 521 | 1 | 0 | 0 | 0 |
| ## 522 | 0 | 1 | 0 | 0 |
| ## 525 | 1 | 0 | 1 | 0 |
| ## 526 | 1 | 0 | 1 | 0 |
| ## 527 | 1 | 0 | 0 | 0 |
| ## 528 | 0 | 0 | 0 | 0 |
| ## 529 | 1 | 0 | 0 | 0 |
| ## 530 | 1 | 0 | 0 | 0 |
| ## 532 | 0 | 0 | 0 | 0 |
| ## 533 | 0 | 0 | 0 | 0 |
| ## 535 | 1 | 0 | 0 | 1 |
| ## 536 | 0 | 0 | 0 | 0 |
| ## 537 | 0 | 0 | 0 | 0 |
| ## 538 | 1 | 0 | 0 | 0 |
| ## 539 | 0 | 0 | 0 | 1 |
| ## 540 | 1 | 0 | 0 | 0 |
| ## 541 | 1 | 0 | 1 | 0 |
| ## 544 | 1 | 0 | 0 | 0 |
| ## 545 | 0 | 0 | 0 | 0 |
| ## 546 | 0 | 0 | 0 | 0 |
| ## 547 | 0 | 1 | 0 | 0 |
| ## 548 | 1 | 0 | 0 | 0 |
| ## 549 | 0 | 0 | 0 | 0 |
| ## 551 | 1 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 552 | 1 | 0 | 0 | 0 |
| ## 554 | 0 | 0 | 0 | 0 |
| ## 555 | 0 | 0 | 0 | 1 |
| ## 556 | 0 | 0 | 0 | 0 |
| ## 557 | 1 | 0 | 0 | 0 |
| ## 558 | 0 | 0 | 0 | 0 |
| ## 559 | 0 | 0 | 1 | 0 |
| ## 560 | 1 | 0 | 0 | 0 |
| ## 563 | 0 | 0 | 0 | 0 |
| ## 564 | 0 | 0 | 0 | 0 |
| ## 565 | 1 | 0 | 0 | 0 |
| ## 566 | 1 | 0 | 1 | 0 |
| ## 567 | 0 | 0 | 0 | 0 |
| ## 568 | 0 | 0 | 0 | 0 |
| ## 570 | 0 | 0 | 1 | 0 |
| ## 571 | 1 | 0 | 0 | 0 |
| ## 573 | 0 | 0 | 0 | 1 |
| ## 574 | 0 | 0 | 0 | 0 |
| ## 575 | 0 | 0 | 1 | 0 |
| ## 576 | 1 | 0 | 0 | 0 |
| ## 577 | 1 | 0 | 1 | 0 |
| ## 578 | 0 | 0 | 1 | 0 |
| ## 579 | 1 | 0 | 1 | 0 |
| ## 582 | 1 | 0 | 0 | 0 |
| ## 583 | 1 | 0 | 0 | 0 |
| ## 584 | 0 | 0 | 0 | 0 |
| ## 585 | 1 | 0 | 0 | 1 |
| ## 586 | 0 | 0 | 0 | 1 |
| ## 587 | 1 | 0 | 0 | 0 |
| ## 589 | 1 | 0 | 0 | 1 |
| ## 590 | 0 | 0 | 1 | 0 |
| ## 592 | 0 | 0 | 0 | 0 |
| ## 593 | 1 | 0 | 0 | 0 |
| ## 594 | 0 | 0 | 0 | 0 |
| ## 595 | 0 | 0 | 0 | 0 |
| ## 596 | 1 | 0 | 0 | 0 |
| ## 597 | 1 | 0 | 0 | 0 |
| ## 598 | 1 | 0 | 0 | 1 |
| ## 601 | 0 | 0 | 1 | 0 |
| ## 602 | 0 | 0 | 1 | 0 |
| ## 603 | 0 | 0 | 0 | 0 |
| ## 604 | 1 | 1 | 0 | 0 |
| ## 605 | 0 | 0 | 0 | 0 |
| ## 606 | 0 | 0 | 0 | 0 |
| ## 608 | 0 | 0 | 0 | 0 |
| ## 609 | 0 | 0 | 0 | 0 |
| ## 611 | 0 | 0 | 0 | 0 |
| ## 612 | 1 | 0 | 1 | 0 |
| ## 613 | 1 | 0 | 0 | 0 |
| ## 614 | 0 | 0 | 1 | 1 |
| ## 615 | 1 | 0 | 1 | 0 |
| ## 616 | 0 | 1 | 0 | 0 |
| ## 617 | 1 | 0 | 1 | 0 |
| ## 620 | 0 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 621 | 0 | 0 | 0 | 1 |
| ## 622 | 1 | 0 | 0 | 1 |
| ## 623 | 1 | 0 | 0 | 0 |
| ## 624 | 0 | 0 | 1 | 0 |
| ## 625 | 0 | 0 | 1 | 0 |
| ## 627 | 1 | 0 | 0 | 0 |
| ## 628 | 1 | 1 | 0 | 0 |
| ## 630 | 0 | 0 | 0 | 1 |
| ## 631 | 1 | 0 | 0 | 0 |
| ## 632 | 0 | 0 | 0 | 0 |
| ## 633 | 0 | 0 | 0 | 0 |
| ## 634 | 1 | 0 | 0 | 0 |
| ## 635 | 0 | 0 | 1 | 0 |
| ## 636 | 0 | 0 | 0 | 0 |
| ## 639 | 0 | 0 | 0 | 0 |
| ## 640 | 0 | 0 | 0 | 0 |
| ## 641 | 0 | 0 | 0 | 0 |
| ## 642 | 0 | 0 | 1 | 0 |
| ## 643 | 0 | 0 | 1 | 0 |
| ## 644 | 0 | 0 | 0 | 0 |
| ## 646 | 0 | 0 | 0 | 0 |
| ## 647 | 0 | 0 | 1 | 0 |
| ## 649 | 0 | 0 | 1 | 0 |
| ## 650 | 1 | 0 | 0 | 0 |
| ## 651 | 0 | 0 | 0 | 1 |
| ## 652 | 0 | 0 | 0 | 0 |
| ## 653 | 0 | 0 | 0 | 0 |
| ## 654 | 0 | 0 | 0 | 0 |
| ## 655 | 0 | 0 | 0 | 0 |
| ## 658 | 0 | 0 | 0 | 1 |
| ## 659 | 0 | 0 | 0 | 0 |
| ## 660 | 1 | 0 | 1 | 0 |
| ## 661 | 0 | 0 | 0 | 0 |
| ## 662 | 1 | 0 | 0 | 0 |
| ## 663 | 1 | 0 | 1 | 1 |
| ## 665 | 0 | 0 | 0 | 1 |
| ## 666 | 0 | 0 | 0 | 0 |
| ## 668 | 1 | 0 | 0 | 0 |
| ## 669 | 1 | 0 | 0 | 0 |
| ## 670 | 1 | 0 | 0 | 1 |
| ## 671 | 1 | 0 | 0 | 0 |
| ## 672 | 0 | 0 | 1 | 0 |
| ## 673 | 1 | 0 | 1 | 0 |
| ## 674 | 0 | 0 | 0 | 0 |
| ## 677 | 0 | 0 | 0 | 1 |
| ## 678 | 1 | 0 | 0 | 0 |
| ## 679 | 0 | 1 | 0 | 0 |
| ## 680 | 1 | 1 | 0 | 0 |
| ## 681 | 1 | 0 | 0 | 0 |
| ## 682 | 0 | 0 | 0 | 1 |
| ## 684 | 0 | 0 | 0 | 1 |
| ## 685 | 0 | 0 | 0 | 0 |
| ## 687 | 0 | 0 | 0 | 0 |
| ## 688 | 0 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 689 | 1 | 0 | 0 | 0 |
| ## 690 | 0 | 0 | 0 | 0 |
| ## 691 | 0 | 0 | 0 | 0 |
| ## 692 | 1 | 0 | 0 | 0 |
| ## 693 | 1 | 0 | 1 | 0 |
| ## 696 | 1 | 0 | 0 | 0 |
| ## 697 | 1 | 0 | 0 | 0 |
| ## 698 | 0 | 0 | 0 | 0 |
| ## 699 | 1 | 0 | 0 | 0 |
| ## 700 | 1 | 0 | 0 | 0 |
| ## 701 | 0 | 0 | 0 | 0 |
| ## 703 | 0 | 0 | 1 | 0 |
| ## 704 | 0 | 0 | 1 | 0 |
| ## 706 | 0 | 1 | 0 | 0 |
| ## 707 | 0 | 0 | 0 | 1 |
| ## 708 | 1 | 0 | 0 | 0 |
| ## 709 | 0 | 1 | 0 | 0 |
| ## 710 | 1 | 0 | 0 | 1 |
| ## 711 | 0 | 1 | 0 | 0 |
| ## 712 | 1 | 0 | 0 | 0 |
| ## 715 | 1 | 0 | 0 | 0 |
| ## 716 | 1 | 0 | 1 | 0 |
| ## 717 | 0 | 0 | 0 | 0 |
| ## 718 | 0 | 0 | 0 | 0 |
| ## 719 | 0 | 0 | 0 | 0 |
| ## 720 | 0 | 0 | 0 | 0 |
| ## 722 | 0 | 0 | 1 | 0 |
| ## 723 | 0 | 0 | 0 | 0 |
| ## 725 | 1 | 1 | 0 | 0 |
| ## 726 | 0 | 0 | 1 | 0 |
| ## 727 | 1 | 0 | 0 | 0 |
| ## 728 | 0 | 0 | 0 | 0 |
| ## 729 | 0 | 0 | 0 | 0 |
| ## 730 | 1 | 0 | 1 | 0 |
| ## 731 | 1 | 1 | 1 | 0 |
| ## 734 | 1 | 0 | 0 | 1 |
| ## 735 | 0 | 0 | 0 | 0 |
| ## 736 | 0 | 0 | 0 | 0 |
| ## 737 | 0 | 0 | 0 | 1 |
| ## 738 | 1 | 0 | 0 | 0 |
| ## 739 | 0 | 1 | 0 | 0 |
| ## 741 | 0 | 0 | 1 | 0 |
| ## 742 | 1 | 0 | 0 | 0 |
| ## 744 | 1 | 1 | 0 | 0 |
| ## 745 | 0 | 0 | 0 | 0 |
| ## 746 | 1 | 0 | 0 | 1 |
| ## 747 | 0 | 0 | 0 | 1 |
| ## 748 | 0 | 0 | 0 | 0 |
| ## 749 | 1 | 0 | 0 | 0 |
| ## 750 | 1 | 0 | 0 | 1 |
| ## 753 | 1 | 0 | 0 | 0 |
| ## 754 | 1 | 0 | 0 | 0 |
| ## 755 | 1 | 0 | 0 | 0 |
| ## 756 | 0 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 757 | 0 | 0 | 0 | 0 |
| ## 758 | 1 | 0 | 0 | 0 |
| ## 760 | 1 | 0 | 1 | 0 |
| ## 761 | 1 | 0 | 0 | 0 |
| ## 763 | 1 | 0 | 0 | 1 |
| ## 764 | 0 | 0 | 1 | 0 |
| ## 765 | 0 | 0 | 0 | 0 |
| ## 766 | 0 | 0 | 0 | 0 |
| ## 767 | 1 | 0 | 1 | 1 |
| ## 768 | 0 | 0 | 0 | 0 |
| ## 769 | 0 | 0 | 0 | 0 |
| ## 772 | 1 | 0 | 0 | 0 |
| ## 773 | 1 | 0 | 0 | 0 |
| ## 774 | 0 | 0 | 0 | 0 |
| ## 775 | 0 | 0 | 0 | 0 |
| ## 776 | 1 | 0 | 0 | 0 |
| ## 777 | 0 | 0 | 1 | 0 |
| ## 779 | 0 | 0 | 0 | 0 |
| ## 780 | 0 | 0 | 1 | 0 |
| ## 782 | 0 | 0 | 0 | 0 |
| ## 783 | 1 | 0 | 0 | 1 |
| ## 784 | 0 | 0 | 0 | 1 |
| ## 785 | 1 | 0 | 0 | 0 |
| ## 786 | 1 | 0 | 0 | 0 |
| ## 787 | 0 | 0 | 1 | 0 |
| ## 788 | 1 | 0 | 0 | 0 |
| ## 791 | 1 | 0 | 0 | 0 |
| ## 792 | 1 | 1 | 0 | 0 |
| ## 793 | 1 | 0 | 0 | 0 |
| ## 794 | 1 | 0 | 1 | 0 |
| ## 795 | 1 | 0 | 0 | 1 |
| ## 796 | 0 | 0 | 1 | 0 |
| ## 798 | 1 | 0 | 0 | 1 |
| ## 799 | 1 | 0 | 0 | 0 |
| ## 801 | 0 | 0 | 0 | 0 |
| ## 802 | 0 | 0 | 0 | 0 |
| ## 803 | 0 | 0 | 1 | 0 |
| ## 804 | 0 | 0 | 0 | 0 |
| ## 805 | 0 | 0 | 0 | 1 |
| ## 806 | 1 | 0 | 0 | 0 |
| ## 807 | 1 | 0 | 1 | 0 |
| ## 810 | 1 | 0 | 0 | 1 |
| ## 811 | 1 | 0 | 0 | 0 |
| ## 812 | 0 | 0 | 0 | 0 |
| ## 813 | 0 | 0 | 0 | 0 |
| ## 814 | 0 | 0 | 0 | 0 |
| ## 815 | 1 | 0 | 0 | 0 |
| ## 817 | 0 | 0 | 1 | 0 |
| ## 818 | 0 | 1 | 0 | 0 |
| ## 820 | 0 | 0 | 0 | 0 |
| ## 821 | 0 | 0 | 0 | 0 |
| ## 822 | 1 | 0 | 0 | 1 |
| ## 823 | 1 | 0 | 1 | 0 |
| ## 824 | 1 | 0 | 1 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 825 | 0 | 0 | 1 | 0 |
| ## 826 | 0 | 1 | 0 | 0 |
| ## 829 | 1 | 0 | 0 | 0 |
| ## 830 | 1 | 0 | 0 | 0 |
| ## 831 | 0 | 1 | 0 | 1 |
| ## 832 | 0 | 0 | 1 | 0 |
| ## 833 | 1 | 1 | 1 | 0 |
| ## 834 | 1 | 1 | 0 | 1 |
| ## 836 | 0 | 0 | 0 | 0 |
| ## 837 | 0 | 0 | 0 | 0 |
| ## 839 | 1 | 0 | 0 | 0 |
| ## 840 | 0 | 0 | 0 | 0 |
| ## 841 | 0 | 0 | 0 | 1 |
| ## 842 | 0 | 0 | 1 | 1 |
| ## 843 | 1 | 0 | 0 | 0 |
| ## 844 | 0 | 0 | 0 | 0 |
| ## 845 | 1 | 0 | 1 | 0 |
| ## 848 | 0 | 0 | 0 | 0 |
| ## 849 | 0 | 0 | 0 | 0 |
| ## 850 | 0 | 0 | 0 | 1 |
| ## 851 | 0 | 0 | 0 | 1 |
| ## 852 | 1 | 0 | 0 | 0 |
| ## 853 | 1 | 0 | 0 | 0 |
| ## 855 | 0 | 0 | 0 | 0 |
| ## 856 | 1 | 0 | 1 | 0 |
| ## 858 | 1 | 0 | 0 | 0 |
| ## 859 | 1 | 0 | 0 | 0 |
| ## 860 | 0 | 0 | 1 | 1 |
| ## 861 | 1 | 1 | 0 | 1 |
| ## 862 | 0 | 0 | 0 | 0 |
| ## 863 | 0 | 0 | 0 | 0 |
| ## 864 | 0 | 0 | 0 | 0 |
| ## 867 | 0 | 0 | 0 | 0 |
| ## 868 | 1 | 0 | 0 | 0 |
| ## 869 | 1 | 1 | 0 | 0 |
| ## 870 | 1 | 0 | 0 | 0 |
| ## 871 | 1 | 0 | 0 | 1 |
| ## 872 | 1 | 0 | 0 | 0 |
| ## 874 | 0 | 0 | 0 | 0 |
| ## 875 | 1 | 0 | 0 | 0 |
| ## 877 | 1 | 0 | 0 | 0 |
| ## 878 | 1 | 0 | 1 | 1 |
| ## 879 | 1 | 0 | 0 | 1 |
| ## 880 | 1 | 0 | 1 | 1 |
| ## 881 | 1 | 0 | 0 | 0 |
| ## 882 | 0 | 0 | 0 | 0 |
| ## 883 | 0 | 0 | 1 | 0 |
| ## 886 | 1 | 0 | 0 | 0 |
| ## 887 | 1 | 1 | 0 | 0 |
| ## 888 | 1 | 0 | 0 | 0 |
| ## 889 | 0 | 0 | 0 | 0 |
| ## 890 | 1 | 0 | 0 | 0 |
| ## 891 | 0 | 0 | 0 | 0 |
| ## 893 | 1 | 0 | 0 | 0 |

| | | | | |
|--------|---|---|---|---|
| ## 894 | 1 | 0 | 0 | 0 |
| ## 896 | 1 | 0 | 0 | 0 |
| ## 897 | 0 | 0 | 0 | 0 |
| ## 898 | 1 | 0 | 0 | 0 |
| ## 899 | 0 | 0 | 1 | 0 |
| ## 900 | 0 | 0 | 0 | 0 |
| ## 901 | 1 | 0 | 0 | 0 |
| ## 902 | 0 | 0 | 0 | 0 |
| ## 905 | 1 | 0 | 0 | 0 |
| ## 906 | 1 | 0 | 0 | 1 |
| ## 907 | 0 | 0 | 0 | 1 |
| ## 908 | 1 | 0 | 0 | 0 |
| ## 909 | 1 | 0 | 0 | 0 |
| ## 910 | 0 | 0 | 0 | 0 |
| ## 912 | 0 | 0 | 0 | 0 |
| ## 913 | 1 | 0 | 0 | 0 |
| ## 915 | 1 | 0 | 0 | 0 |
| ## 916 | 1 | 0 | 0 | 0 |
| ## 917 | 0 | 0 | 0 | 0 |
| ## 918 | 1 | 0 | 1 | 1 |
| ## 919 | 0 | 0 | 0 | 1 |
| ## 920 | 1 | 0 | 0 | 0 |
| ## 921 | 0 | 0 | 0 | 0 |
| ## 924 | 0 | 0 | 1 | 0 |
| ## 925 | 0 | 0 | 0 | 1 |
| ## 926 | 1 | 0 | 0 | 0 |
| ## 927 | 0 | 0 | 0 | 0 |
| ## 928 | 0 | 0 | 0 | 0 |
| ## 929 | 0 | 0 | 0 | 0 |
| ## 931 | 0 | 0 | 0 | 0 |
| ## 932 | 0 | 0 | 0 | 0 |
| ## 934 | 1 | 0 | 0 | 0 |
| ## 935 | 1 | 0 | 0 | 1 |
| ## 936 | 1 | 0 | 0 | 1 |
| ## 937 | 1 | 0 | 0 | 1 |
| ## 938 | 1 | 0 | 0 | 0 |
| ## 939 | 1 | 0 | 0 | 0 |
| ## 940 | 1 | 0 | 0 | 1 |
| ## 943 | 1 | 0 | 1 | 0 |
| ## 944 | 0 | 0 | 0 | 0 |
| ## 945 | 1 | 0 | 0 | 0 |
| ## 946 | 1 | 0 | 0 | 0 |
| ## 947 | 1 | 0 | 0 | 0 |
| ## 948 | 0 | 0 | 1 | 1 |
| ## 950 | 0 | 0 | 1 | 1 |
| ## 951 | 0 | 0 | 0 | 0 |
| ## 953 | 0 | 1 | 0 | 0 |
| ## 954 | 0 | 0 | 0 | 0 |
| ## 955 | 1 | 0 | 0 | 0 |
| ## 956 | 1 | 0 | 0 | 0 |
| ## 957 | 1 | 0 | 0 | 0 |
| ## 958 | 1 | 0 | 1 | 0 |
| ## 959 | 0 | 0 | 1 | 0 |
| ## 962 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 963 | 0 | 0 | 0 | 0 |
| ## 964 | 0 | 0 | 0 | 0 |
| ## 965 | 1 | 0 | 0 | 0 |
| ## 966 | 1 | 0 | 0 | 0 |
| ## 967 | 0 | 1 | 0 | 0 |
| ## 969 | 0 | 0 | 0 | 0 |
| ## 970 | 0 | 1 | 1 | 0 |
| ## 972 | 1 | 0 | 0 | 0 |
| ## 973 | 1 | 1 | 0 | 0 |
| ## 974 | 0 | 0 | 0 | 0 |
| ## 975 | 1 | 0 | 0 | 0 |
| ## 976 | 1 | 0 | 0 | 1 |
| ## 977 | 1 | 0 | 0 | 0 |
| ## 978 | 0 | 0 | 0 | 1 |
| ## 981 | 1 | 1 | 0 | 0 |
| ## 982 | 0 | 0 | 0 | 0 |
| ## 983 | 1 | 0 | 0 | 0 |
| ## 984 | 1 | 0 | 0 | 1 |
| ## 985 | 0 | 0 | 0 | 0 |
| ## 986 | 1 | 0 | 0 | 0 |
| ## 988 | 1 | 0 | 0 | 0 |
| ## 989 | 0 | 0 | 1 | 1 |
| ## 991 | 1 | 0 | 1 | 1 |
| ## 992 | 0 | 0 | 0 | 1 |
| ## 993 | 1 | 0 | 0 | 0 |
| ## 994 | 0 | 0 | 0 | 0 |
| ## 995 | 1 | 0 | 0 | 0 |
| ## 996 | 1 | 0 | 0 | 1 |
| ## 997 | 0 | 0 | 0 | 1 |
| ## 1000 | 1 | 0 | 0 | 0 |
| ## 1001 | 1 | 0 | 0 | 0 |
| ## 1002 | 0 | 0 | 0 | 0 |
| ## 1003 | 1 | 0 | 0 | 0 |
| ## 1004 | 1 | 0 | 1 | 0 |
| ## 1005 | 0 | 0 | 1 | 0 |
| ## 1007 | 1 | 0 | 1 | 0 |
| ## 1008 | 1 | 0 | 0 | 0 |
| ## 1010 | 1 | 0 | 0 | 0 |
| ## 1011 | 0 | 1 | 0 | 0 |
| ## 1012 | 0 | 0 | 1 | 1 |
| ## 1013 | 1 | 0 | 0 | 0 |
| ## 1014 | 0 | 0 | 0 | 1 |
| ## 1015 | 1 | 0 | 1 | 0 |
| ## 1016 | 1 | 0 | 0 | 0 |
| ## 1019 | 0 | 1 | 0 | 1 |
| ## 1020 | 0 | 0 | 0 | 0 |
| ## 1021 | 0 | 0 | 0 | 0 |
| ## 1022 | 0 | 0 | 0 | 0 |
| ## 1023 | 0 | 0 | 0 | 0 |
| ## 1024 | 0 | 1 | 0 | 0 |
| ## 1026 | 0 | 0 | 0 | 0 |
| ## 1027 | 1 | 0 | 1 | 0 |
| ## 1029 | 0 | 0 | 0 | 0 |
| ## 1030 | 1 | 0 | 0 | 1 |

| | | | | |
|---------|---|---|---|---|
| ## 1031 | 1 | 0 | 1 | 0 |
| ## 1032 | 1 | 0 | 0 | 0 |
| ## 1033 | 0 | 0 | 0 | 1 |
| ## 1034 | 1 | 0 | 0 | 0 |
| ## 1035 | 0 | 0 | 0 | 1 |
| ## 1038 | 1 | 0 | 0 | 0 |
| ## 1039 | 0 | 0 | 0 | 0 |
| ## 1040 | 0 | 0 | 0 | 0 |
| ## 1041 | 0 | 0 | 0 | 0 |
| ## 1042 | 1 | 0 | 0 | 0 |
| ## 1043 | 0 | 0 | 0 | 0 |
| ## 1045 | 0 | 0 | 1 | 0 |
| ## 1046 | 1 | 0 | 0 | 0 |
| ## 1048 | 1 | 0 | 0 | 0 |
| ## 1049 | 0 | 0 | 0 | 0 |
| ## 1050 | 1 | 0 | 0 | 1 |
| ## 1051 | 0 | 0 | 0 | 0 |
| ## 1052 | 0 | 0 | 1 | 0 |
| ## 1053 | 1 | 0 | 0 | 0 |
| ## 1054 | 1 | 0 | 1 | 0 |
| ## 1057 | 0 | 0 | 0 | 0 |
| ## 1058 | 0 | 0 | 0 | 0 |
| ## 1059 | 1 | 0 | 0 | 0 |
| ## 1060 | 0 | 1 | 0 | 0 |
| ## 1061 | 0 | 0 | 0 | 0 |
| ## 1062 | 0 | 0 | 0 | 1 |
| ## 1064 | 0 | 0 | 0 | 1 |
| ## 1065 | 1 | 0 | 0 | 0 |
| ## 1067 | 1 | 0 | 0 | 0 |
| ## 1068 | 0 | 0 | 0 | 0 |
| ## 1069 | 0 | 0 | 1 | 0 |
| ## 1070 | 1 | 0 | 1 | 0 |
| ## 1071 | 1 | 0 | 0 | 0 |
| ## 1072 | 0 | 0 | 0 | 0 |
| ## 1073 | 0 | 0 | 0 | 0 |
| ## 1076 | 1 | 0 | 1 | 0 |
| ## 1077 | 0 | 0 | 0 | 1 |
| ## 1078 | 1 | 0 | 0 | 0 |
| ## 1079 | 0 | 0 | 0 | 0 |
| ## 1080 | 0 | 0 | 0 | 0 |
| ## 1081 | 0 | 0 | 0 | 0 |
| ## 1083 | 1 | 1 | 0 | 0 |
| ## 1084 | 0 | 0 | 0 | 0 |
| ## 1086 | 1 | 0 | 0 | 0 |
| ## 1087 | 0 | 0 | 0 | 0 |
| ## 1088 | 1 | 0 | 0 | 0 |
| ## 1089 | 0 | 0 | 0 | 0 |
| ## 1090 | 0 | 0 | 0 | 0 |
| ## 1091 | 0 | 0 | 0 | 0 |
| ## 1092 | 1 | 1 | 1 | 1 |
| ## 1095 | 0 | 0 | 0 | 1 |
| ## 1096 | 0 | 1 | 0 | 0 |
| ## 1097 | 1 | 0 | 0 | 1 |
| ## 1098 | 1 | 1 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1099 | 1 | 0 | 0 | 0 |
| ## 1100 | 1 | 0 | 0 | 0 |
| ## 1102 | 0 | 0 | 0 | 0 |
| ## 1103 | 1 | 0 | 1 | 1 |
| ## 1105 | 1 | 0 | 0 | 0 |
| ## 1106 | 1 | 0 | 1 | 0 |
| ## 1107 | 0 | 0 | 0 | 0 |
| ## 1108 | 0 | 0 | 0 | 0 |
| ## 1109 | 0 | 0 | 0 | 0 |
| ## 1110 | 0 | 0 | 1 | 0 |
| ## 1111 | 0 | 0 | 1 | 0 |
| ## 1114 | 0 | 0 | 1 | 0 |
| ## 1115 | 1 | 0 | 0 | 0 |
| ## 1116 | 1 | 0 | 0 | 0 |
| ## 1117 | 0 | 0 | 0 | 0 |
| ## 1118 | 0 | 0 | 1 | 0 |
| ## 1119 | 0 | 0 | 1 | 0 |
| ## 1121 | 0 | 0 | 0 | 0 |
| ## 1122 | 0 | 0 | 0 | 0 |
| ## 1124 | 0 | 0 | 0 | 1 |
| ## 1125 | 0 | 0 | 0 | 0 |
| ## 1126 | 1 | 0 | 0 | 0 |
| ## 1127 | 1 | 0 | 0 | 0 |
| ## 1128 | 0 | 0 | 0 | 0 |
| ## 1129 | 0 | 0 | 1 | 0 |
| ## 1130 | 0 | 0 | 0 | 0 |
| ## 1133 | 1 | 0 | 1 | 0 |
| ## 1134 | 1 | 0 | 1 | 0 |
| ## 1135 | 1 | 0 | 0 | 0 |
| ## 1136 | 0 | 0 | 0 | 0 |
| ## 1137 | 0 | 1 | 0 | 0 |
| ## 1138 | 0 | 0 | 0 | 0 |
| ## 1140 | 0 | 0 | 0 | 1 |
| ## 1141 | 0 | 0 | 0 | 0 |
| ## 1143 | 0 | 0 | 0 | 0 |
| ## 1144 | 1 | 0 | 0 | 0 |
| ## 1145 | 0 | 0 | 0 | 0 |
| ## 1146 | 1 | 0 | 0 | 0 |
| ## 1147 | 1 | 0 | 0 | 0 |
| ## 1148 | 1 | 0 | 0 | 0 |
| ## 1149 | 1 | 0 | 0 | 0 |
| ## 1152 | 0 | 0 | 0 | 0 |
| ## 1153 | 0 | 0 | 0 | 0 |
| ## 1154 | 0 | 0 | 1 | 0 |
| ## 1155 | 1 | 0 | 0 | 0 |
| ## 1156 | 0 | 0 | 0 | 1 |
| ## 1157 | 1 | 0 | 1 | 0 |
| ## 1159 | 0 | 0 | 0 | 0 |
| ## 1160 | 0 | 0 | 0 | 0 |
| ## 1162 | 0 | 0 | 1 | 0 |
| ## 1163 | 1 | 0 | 0 | 0 |
| ## 1164 | 0 | 0 | 0 | 0 |
| ## 1165 | 1 | 1 | 0 | 0 |
| ## 1166 | 1 | 0 | 1 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1167 | 1 | 0 | 0 | 0 |
| ## 1168 | 1 | 0 | 0 | 0 |
| ## 1171 | 0 | 0 | 1 | 0 |
| ## 1172 | 1 | 0 | 0 | 0 |
| ## 1173 | 0 | 1 | 0 | 1 |
| ## 1174 | 0 | 0 | 0 | 0 |
| ## 1175 | 0 | 0 | 0 | 1 |
| ## 1176 | 0 | 0 | 1 | 0 |
| ## 1178 | 0 | 0 | 0 | 0 |
| ## 1179 | 0 | 0 | 0 | 0 |
| ## 1181 | 1 | 0 | 0 | 0 |
| ## 1182 | 1 | 0 | 0 | 0 |
| ## 1183 | 0 | 0 | 0 | 0 |
| ## 1184 | 0 | 0 | 0 | 0 |
| ## 1185 | 0 | 0 | 1 | 0 |
| ## 1186 | 1 | 0 | 0 | 0 |
| ## 1187 | 0 | 0 | 0 | 1 |
| ## 1190 | 1 | 0 | 0 | 0 |
| ## 1191 | 0 | 0 | 0 | 0 |
| ## 1192 | 1 | 0 | 0 | 0 |
| ## 1193 | 1 | 0 | 0 | 0 |
| ## 1194 | 1 | 0 | 0 | 0 |
| ## 1195 | 0 | 0 | 0 | 0 |
| ## 1197 | 1 | 0 | 0 | 0 |
| ## 1198 | 1 | 0 | 0 | 1 |
| ## 1200 | 1 | 0 | 0 | 0 |
| ## 1201 | 1 | 0 | 0 | 1 |
| ## 1202 | 1 | 0 | 0 | 0 |
| ## 1203 | 0 | 1 | 0 | 0 |
| ## 1204 | 0 | 1 | 0 | 0 |
| ## 1205 | 1 | 0 | 0 | 1 |
| ## 1206 | 0 | 0 | 0 | 0 |
| ## 1209 | 0 | 0 | 0 | 0 |
| ## 1210 | 1 | 0 | 0 | 0 |
| ## 1211 | 1 | 0 | 0 | 0 |
| ## 1212 | 0 | 0 | 0 | 0 |
| ## 1213 | 1 | 0 | 0 | 0 |
| ## 1214 | 0 | 0 | 0 | 1 |
| ## 1216 | 0 | 0 | 1 | 0 |
| ## 1217 | 0 | 0 | 1 | 0 |
| ## 1219 | 0 | 0 | 0 | 0 |
| ## 1220 | 0 | 0 | 0 | 1 |
| ## 1221 | 0 | 0 | 0 | 0 |
| ## 1222 | 1 | 0 | 1 | 0 |
| ## 1223 | 0 | 0 | 0 | 0 |
| ## 1224 | 0 | 0 | 0 | 0 |
| ## 1225 | 0 | 0 | 0 | 0 |
| ## 1228 | 1 | 0 | 0 | 0 |
| ## 1229 | 1 | 0 | 0 | 0 |
| ## 1230 | 1 | 0 | 0 | 0 |
| ## 1231 | 1 | 1 | 0 | 0 |
| ## 1232 | 1 | 1 | 0 | 0 |
| ## 1233 | 1 | 0 | 0 | 0 |
| ## 1235 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1236 | 1 | 0 | 0 | 0 |
| ## 1238 | 1 | 0 | 0 | 0 |
| ## 1239 | 0 | 0 | 0 | 1 |
| ## 1240 | 1 | 0 | 0 | 0 |
| ## 1241 | 1 | 0 | 1 | 1 |
| ## 1242 | 0 | 0 | 0 | 0 |
| ## 1243 | 0 | 0 | 0 | 0 |
| ## 1244 | 0 | 0 | 0 | 0 |
| ## 1247 | 1 | 0 | 0 | 0 |
| ## 1248 | 0 | 0 | 1 | 1 |
| ## 1249 | 1 | 0 | 0 | 0 |
| ## 1250 | 1 | 0 | 1 | 0 |
| ## 1251 | 0 | 0 | 0 | 0 |
| ## 1252 | 1 | 0 | 0 | 0 |
| ## 1254 | 1 | 0 | 0 | 0 |
| ## 1255 | 0 | 0 | 0 | 0 |
| ## 1257 | 0 | 0 | 1 | 0 |
| ## 1258 | 0 | 0 | 0 | 0 |
| ## 1259 | 0 | 0 | 0 | 0 |
| ## 1260 | 0 | 0 | 0 | 0 |
| ## 1261 | 0 | 0 | 0 | 0 |
| ## 1262 | 1 | 0 | 0 | 0 |
| ## 1263 | 0 | 0 | 1 | 0 |
| ## 1266 | 0 | 0 | 0 | 0 |
| ## 1267 | 1 | 0 | 0 | 0 |
| ## 1268 | 0 | 0 | 0 | 0 |
| ## 1269 | 0 | 0 | 0 | 0 |
| ## 1270 | 0 | 0 | 0 | 0 |
| ## 1271 | 1 | 0 | 0 | 0 |
| ## 1273 | 1 | 0 | 0 | 1 |
| ## 1274 | 1 | 0 | 0 | 0 |
| ## 1276 | 1 | 0 | 0 | 0 |
| ## 1277 | 0 | 0 | 1 | 0 |
| ## 1278 | 1 | 0 | 1 | 0 |
| ## 1279 | 1 | 0 | 0 | 0 |
| ## 1280 | 1 | 1 | 0 | 0 |
| ## 1281 | 1 | 0 | 0 | 1 |
| ## 1282 | 1 | 0 | 0 | 0 |
| ## 1285 | 0 | 0 | 0 | 1 |
| ## 1286 | 1 | 0 | 0 | 0 |
| ## 1287 | 0 | 0 | 1 | 0 |
| ## 1288 | 0 | 0 | 0 | 0 |
| ## 1289 | 1 | 0 | 0 | 0 |
| ## 1290 | 0 | 0 | 1 | 0 |
| ## 1292 | 0 | 0 | 1 | 0 |
| ## 1293 | 0 | 0 | 1 | 0 |
| ## 1295 | 1 | 0 | 0 | 0 |
| ## 1296 | 1 | 0 | 0 | 0 |
| ## 1297 | 1 | 0 | 0 | 0 |
| ## 1298 | 1 | 0 | 0 | 0 |
| ## 1299 | 0 | 0 | 0 | 0 |
| ## 1300 | 1 | 0 | 0 | 1 |
| ## 1301 | 0 | 0 | 1 | 0 |
| ## 1304 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1305 | 1 | 0 | 0 | 0 |
| ## 1306 | 0 | 1 | 0 | 0 |
| ## 1307 | 1 | 0 | 0 | 0 |
| ## 1308 | 1 | 0 | 0 | 0 |
| ## 1309 | 1 | 1 | 0 | 0 |
| ## 1311 | 0 | 0 | 0 | 0 |
| ## 1312 | 1 | 0 | 0 | 0 |
| ## 1314 | 1 | 0 | 0 | 1 |
| ## 1315 | 1 | 0 | 0 | 0 |
| ## 1316 | 0 | 0 | 1 | 0 |
| ## 1317 | 1 | 0 | 0 | 0 |
| ## 1318 | 1 | 0 | 0 | 1 |
| ## 1319 | 0 | 0 | 0 | 0 |
| ## 1320 | 1 | 0 | 0 | 0 |
| ## 1323 | 0 | 0 | 0 | 1 |
| ## 1324 | 1 | 0 | 0 | 0 |
| ## 1325 | 0 | 1 | 0 | 0 |
| ## 1326 | 1 | 0 | 1 | 0 |
| ## 1327 | 0 | 0 | 0 | 0 |
| ## 1328 | 0 | 1 | 0 | 0 |
| ## 1330 | 1 | 0 | 1 | 0 |
| ## 1331 | 1 | 0 | 0 | 0 |
| ## 1333 | 1 | 0 | 0 | 0 |
| ## 1334 | 1 | 0 | 0 | 0 |
| ## 1335 | 0 | 0 | 1 | 0 |
| ## 1336 | 0 | 0 | 0 | 0 |
| ## 1337 | 0 | 0 | 0 | 0 |
| ## 1338 | 0 | 0 | 0 | 0 |
| ## 1339 | 1 | 1 | 0 | 1 |
| ## 1342 | 1 | 0 | 0 | 0 |
| ## 1343 | 0 | 0 | 0 | 0 |
| ## 1344 | 0 | 1 | 1 | 0 |
| ## 1345 | 0 | 1 | 0 | 0 |
| ## 1346 | 0 | 0 | 0 | 0 |
| ## 1347 | 0 | 0 | 1 | 0 |
| ## 1349 | 0 | 0 | 0 | 0 |
| ## 1350 | 1 | 0 | 0 | 0 |
| ## 1352 | 0 | 0 | 0 | 1 |
| ## 1353 | 0 | 0 | 0 | 0 |
| ## 1354 | 1 | 0 | 0 | 0 |
| ## 1355 | 1 | 0 | 1 | 0 |
| ## 1356 | 0 | 0 | 1 | 0 |
| ## 1357 | 1 | 0 | 0 | 0 |
| ## 1358 | 0 | 0 | 0 | 0 |
| ## 1361 | 1 | 0 | 0 | 1 |
| ## 1362 | 1 | 1 | 0 | 0 |
| ## 1363 | 0 | 0 | 0 | 1 |
| ## 1364 | 0 | 0 | 0 | 0 |
| ## 1365 | 1 | 0 | 0 | 0 |
| ## 1366 | 0 | 0 | 0 | 0 |
| ## 1368 | 1 | 1 | 1 | 0 |
| ## 1369 | 1 | 0 | 0 | 1 |
| ## 1371 | 0 | 0 | 0 | 0 |
| ## 1372 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1373 | 0 | 0 | 1 | 0 |
| ## 1374 | 1 | 0 | 0 | 0 |
| ## 1375 | 1 | 0 | 0 | 0 |
| ## 1376 | 1 | 0 | 1 | 0 |
| ## 1377 | 1 | 0 | 1 | 1 |
| ## 1380 | 0 | 0 | 0 | 1 |
| ## 1381 | 0 | 0 | 0 | 0 |
| ## 1382 | 0 | 0 | 0 | 0 |
| ## 1383 | 0 | 0 | 1 | 0 |
| ## 1384 | 1 | 0 | 1 | 0 |
| ## 1385 | 0 | 0 | 0 | 0 |
| ## 1387 | 0 | 0 | 1 | 0 |
| ## 1388 | 1 | 1 | 0 | 0 |
| ## 1390 | 1 | 0 | 0 | 0 |
| ## 1391 | 0 | 0 | 0 | 0 |
| ## 1392 | 1 | 0 | 0 | 1 |
| ## 1393 | 0 | 0 | 1 | 0 |
| ## 1394 | 1 | 1 | 0 | 0 |
| ## 1395 | 1 | 0 | 0 | 1 |
| ## 1396 | 1 | 0 | 0 | 0 |
| ## 1399 | 1 | 0 | 0 | 0 |
| ## 1400 | 1 | 0 | 1 | 0 |
| ## 1401 | 1 | 0 | 1 | 0 |
| ## 1402 | 1 | 1 | 0 | 0 |
| ## 1403 | 0 | 1 | 0 | 0 |
| ## 1404 | 0 | 0 | 1 | 0 |
| ## 1406 | 0 | 0 | 1 | 0 |
| ## 1407 | 1 | 0 | 0 | 0 |
| ## 1409 | 0 | 0 | 0 | 1 |
| ## 1410 | 1 | 0 | 0 | 1 |
| ## 1411 | 1 | 0 | 0 | 0 |
| ## 1412 | 1 | 0 | 0 | 0 |
| ## 1413 | 0 | 0 | 0 | 0 |
| ## 1414 | 0 | 0 | 0 | 0 |
| ## 1415 | 0 | 0 | 0 | 0 |
| ## 1418 | 0 | 0 | 1 | 0 |
| ## 1419 | 0 | 0 | 0 | 0 |
| ## 1420 | 0 | 0 | 1 | 1 |
| ## 1421 | 1 | 0 | 0 | 1 |
| ## 1422 | 0 | 0 | 1 | 0 |
| ## 1423 | 1 | 0 | 0 | 0 |
| ## 1425 | 1 | 0 | 0 | 0 |
| ## 1426 | 0 | 0 | 0 | 0 |
| ## 1428 | 0 | 0 | 0 | 1 |
| ## 1429 | 0 | 0 | 0 | 1 |
| ## 1430 | 0 | 0 | 0 | 0 |
| ## 1431 | 0 | 0 | 0 | 0 |
| ## 1432 | 0 | 1 | 1 | 0 |
| ## 1433 | 0 | 1 | 0 | 0 |
| ## 1434 | 1 | 0 | 0 | 0 |
| ## 1437 | 1 | 0 | 0 | 1 |
| ## 1438 | 1 | 1 | 1 | 0 |
| ## 1439 | 0 | 0 | 0 | 0 |
| ## 1440 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1441 | 1 | 0 | 1 | 0 |
| ## 1442 | 1 | 0 | 0 | 1 |
| ## 1444 | 1 | 0 | 0 | 0 |
| ## 1445 | 1 | 0 | 0 | 0 |
| ## 1447 | 0 | 0 | 1 | 0 |
| ## 1448 | 0 | 0 | 1 | 0 |
| ## 1449 | 1 | 0 | 0 | 0 |
| ## 1450 | 1 | 0 | 1 | 0 |
| ## 1451 | 1 | 0 | 0 | 0 |
| ## 1452 | 1 | 0 | 0 | 0 |
| ## 1453 | 1 | 0 | 0 | 0 |
| ## 1456 | 1 | 0 | 0 | 0 |
| ## 1457 | 0 | 0 | 1 | 0 |
| ## 1458 | 1 | 1 | 0 | 0 |
| ## 1459 | 0 | 0 | 0 | 0 |
| ## 1460 | 0 | 0 | 0 | 0 |
| ## 1461 | 0 | 0 | 0 | 0 |
| ## 1463 | 0 | 0 | 1 | 0 |
| ## 1464 | 1 | 0 | 0 | 0 |
| ## 1466 | 1 | 0 | 0 | 0 |
| ## 1467 | 1 | 0 | 0 | 0 |
| ## 1468 | 0 | 0 | 0 | 0 |
| ## 1469 | 1 | 0 | 0 | 0 |
| ## 1470 | 0 | 0 | 0 | 0 |
| ## 1471 | 1 | 0 | 0 | 0 |
| ## 1472 | 0 | 0 | 0 | 1 |
| ## 1475 | 1 | 1 | 0 | 0 |
| ## 1476 | 1 | 0 | 0 | 1 |
| ## 1477 | 0 | 0 | 0 | 0 |
| ## 1478 | 0 | 0 | 0 | 0 |
| ## 1479 | 0 | 0 | 0 | 1 |
| ## 1480 | 0 | 1 | 0 | 0 |
| ## 1482 | 0 | 0 | 0 | 0 |
| ## 1483 | 1 | 0 | 0 | 0 |
| ## 1485 | 1 | 0 | 0 | 0 |
| ## 1486 | 0 | 0 | 0 | 0 |
| ## 1487 | 1 | 1 | 0 | 0 |
| ## 1488 | 0 | 0 | 0 | 1 |
| ## 1489 | 1 | 0 | 0 | 0 |
| ## 1490 | 0 | 0 | 1 | 0 |
| ## 1491 | 0 | 0 | 0 | 0 |
| ## 1494 | 1 | 0 | 0 | 0 |
| ## 1495 | 0 | 0 | 0 | 0 |
| ## 1496 | 1 | 0 | 0 | 0 |
| ## 1497 | 0 | 0 | 0 | 0 |
| ## 1498 | 1 | 0 | 0 | 0 |
| ## 1499 | 1 | 0 | 0 | 1 |
| ## 1501 | 1 | 0 | 1 | 1 |
| ## 1502 | 1 | 0 | 0 | 0 |
| ## 1504 | 0 | 0 | 0 | 0 |
| ## 1505 | 1 | 0 | 0 | 1 |
| ## 1506 | 1 | 0 | 0 | 0 |
| ## 1507 | 0 | 0 | 0 | 0 |
| ## 1508 | 1 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1509 | 1 | 0 | 0 | 1 |
| ## 1510 | 0 | 0 | 0 | 0 |
| ## 1513 | 0 | 0 | 0 | 0 |
| ## 1514 | 0 | 0 | 0 | 0 |
| ## 1515 | 0 | 0 | 1 | 0 |
| ## 1516 | 1 | 0 | 0 | 0 |
| ## 1517 | 0 | 0 | 1 | 0 |
| ## 1518 | 0 | 1 | 0 | 0 |
| ## 1520 | 0 | 0 | 0 | 0 |
| ## 1521 | 1 | 0 | 0 | 0 |
| ## 1523 | 0 | 0 | 0 | 0 |
| ## 1524 | 0 | 0 | 0 | 0 |
| ## 1525 | 0 | 0 | 0 | 1 |
| ## 1526 | 1 | 0 | 1 | 0 |
| ## 1527 | 0 | 0 | 1 | 0 |
| ## 1528 | 1 | 0 | 0 | 1 |
| ## 1529 | 1 | 0 | 0 | 0 |
| ## 1532 | 0 | 0 | 0 | 0 |
| ## 1533 | 1 | 0 | 0 | 0 |
| ## 1534 | 1 | 0 | 0 | 1 |
| ## 1535 | 1 | 0 | 0 | 0 |
| ## 1536 | 0 | 0 | 0 | 1 |
| ## 1537 | 0 | 1 | 0 | 0 |
| ## 1539 | 0 | 1 | 0 | 0 |
| ## 1540 | 0 | 0 | 1 | 0 |
| ## 1542 | 0 | 0 | 0 | 0 |
| ## 1543 | 1 | 0 | 0 | 0 |
| ## 1544 | 1 | 0 | 0 | 0 |
| ## 1545 | 0 | 0 | 0 | 1 |
| ## 1546 | 0 | 0 | 0 | 1 |
| ## 1547 | 0 | 0 | 0 | 0 |
| ## 1548 | 1 | 0 | 0 | 0 |
| ## 1551 | 0 | 0 | 0 | 0 |
| ## 1552 | 1 | 1 | 0 | 0 |
| ## 1553 | 0 | 0 | 0 | 0 |
| ## 1554 | 0 | 0 | 1 | 1 |
| ## 1555 | 1 | 0 | 0 | 0 |
| ## 1556 | 0 | 0 | 0 | 0 |
| ## 1558 | 1 | 0 | 0 | 0 |
| ## 1559 | 0 | 0 | 1 | 1 |
| ## 1561 | 0 | 0 | 0 | 0 |
| ## 1562 | 1 | 0 | 0 | 0 |
| ## 1563 | 0 | 0 | 0 | 0 |
| ## 1564 | 1 | 0 | 0 | 0 |
| ## 1565 | 0 | 0 | 0 | 0 |
| ## 1566 | 0 | 0 | 1 | 0 |
| ## 1567 | 0 | 1 | 0 | 0 |
| ## 1570 | 0 | 0 | 0 | 1 |
| ## 1571 | 1 | 0 | 0 | 1 |
| ## 1572 | 1 | 0 | 0 | 0 |
| ## 1573 | 0 | 0 | 0 | 0 |
| ## 1574 | 1 | 0 | 0 | 0 |
| ## 1575 | 0 | 0 | 1 | 0 |
| ## 1577 | 0 | 1 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1578 | 0 | 0 | 0 | 0 |
| ## 1580 | 0 | 0 | 0 | 0 |
| ## 1581 | 0 | 0 | 0 | 0 |
| ## 1582 | 0 | 0 | 0 | 0 |
| ## 1583 | 1 | 0 | 0 | 0 |
| ## 1584 | 1 | 0 | 0 | 0 |
| ## 1585 | 0 | 0 | 0 | 0 |
| ## 1586 | 1 | 0 | 0 | 0 |
| ## 1589 | 0 | 0 | 1 | 0 |
| ## 1590 | 1 | 1 | 0 | 0 |
| ## 1591 | 0 | 1 | 0 | 0 |
| ## 1592 | 0 | 0 | 0 | 0 |
| ## 1593 | 0 | 0 | 0 | 0 |
| ## 1594 | 0 | 0 | 1 | 0 |
| ## 1596 | 1 | 0 | 0 | 0 |
| ## 1597 | 0 | 0 | 0 | 0 |
| ## 1599 | 1 | 0 | 0 | 0 |
| ## 1600 | 0 | 0 | 0 | 0 |
| ## 1601 | 1 | 0 | 0 | 1 |
| ## 1602 | 0 | 0 | 0 | 0 |
| ## 1603 | 0 | 0 | 1 | 0 |
| ## 1604 | 0 | 0 | 0 | 0 |
| ## 1605 | 0 | 1 | 0 | 0 |
| ## 1608 | 0 | 0 | 0 | 0 |
| ## 1609 | 1 | 0 | 0 | 0 |
| ## 1610 | 0 | 0 | 1 | 0 |
| ## 1611 | 0 | 0 | 1 | 1 |
| ## 1612 | 1 | 0 | 0 | 1 |
| ## 1613 | 0 | 0 | 1 | 0 |
| ## 1615 | 0 | 0 | 1 | 0 |
| ## 1616 | 1 | 0 | 0 | 0 |
| ## 1618 | 1 | 0 | 0 | 0 |
| ## 1619 | 1 | 0 | 0 | 1 |
| ## 1620 | 1 | 0 | 0 | 1 |
| ## 1621 | 1 | 0 | 0 | 1 |
| ## 1622 | 1 | 0 | 1 | 0 |
| ## 1623 | 0 | 1 | 1 | 0 |
| ## 1624 | 0 | 0 | 0 | 1 |
| ## 1627 | 1 | 0 | 1 | 0 |
| ## 1628 | 1 | 0 | 0 | 0 |
| ## 1629 | 1 | 0 | 1 | 0 |
| ## 1630 | 1 | 0 | 0 | 1 |
| ## 1631 | 0 | 0 | 0 | 0 |
| ## 1632 | 0 | 0 | 1 | 0 |
| ## 1634 | 1 | 0 | 0 | 0 |
| ## 1635 | 0 | 0 | 1 | 1 |
| ## 1637 | 1 | 0 | 0 | 0 |
| ## 1638 | 0 | 0 | 0 | 0 |
| ## 1639 | 0 | 0 | 0 | 0 |
| ## 1640 | 0 | 0 | 0 | 0 |
| ## 1641 | 0 | 0 | 0 | 1 |
| ## 1642 | 1 | 0 | 0 | 0 |
| ## 1643 | 0 | 0 | 0 | 0 |
| ## 1646 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1647 | 1 | 0 | 0 | 1 |
| ## 1648 | 1 | 0 | 0 | 0 |
| ## 1649 | 1 | 0 | 0 | 0 |
| ## 1650 | 1 | 0 | 0 | 0 |
| ## 1651 | 0 | 0 | 0 | 0 |
| ## 1653 | 1 | 0 | 0 | 1 |
| ## 1654 | 0 | 0 | 0 | 0 |
| ## 1656 | 0 | 0 | 0 | 1 |
| ## 1657 | 1 | 0 | 0 | 0 |
| ## 1658 | 1 | 0 | 0 | 0 |
| ## 1659 | 1 | 0 | 1 | 1 |
| ## 1660 | 1 | 0 | 1 | 0 |
| ## 1661 | 0 | 0 | 0 | 0 |
| ## 1662 | 1 | 0 | 1 | 0 |
| ## 1665 | 1 | 1 | 0 | 0 |
| ## 1666 | 1 | 0 | 0 | 0 |
| ## 1667 | 0 | 0 | 0 | 0 |
| ## 1668 | 0 | 0 | 1 | 0 |
| ## 1669 | 1 | 0 | 0 | 0 |
| ## 1670 | 0 | 0 | 1 | 0 |
| ## 1672 | 0 | 0 | 0 | 0 |
| ## 1673 | 0 | 0 | 0 | 0 |
| ## 1675 | 0 | 0 | 0 | 0 |
| ## 1676 | 1 | 0 | 0 | 0 |
| ## 1677 | 1 | 0 | 0 | 1 |
| ## 1678 | 0 | 0 | 0 | 1 |
| ## 1679 | 1 | 0 | 0 | 0 |
| ## 1680 | 0 | 0 | 0 | 0 |
| ## 1681 | 1 | 0 | 0 | 0 |
| ## 1684 | 1 | 1 | 0 | 0 |
| ## 1685 | 1 | 0 | 0 | 0 |
| ## 1686 | 0 | 0 | 0 | 1 |
| ## 1687 | 1 | 0 | 0 | 0 |
| ## 1688 | 0 | 1 | 1 | 0 |
| ## 1689 | 1 | 0 | 0 | 1 |
| ## 1691 | 0 | 0 | 0 | 0 |
| ## 1692 | 1 | 0 | 0 | 0 |
| ## 1694 | 1 | 0 | 0 | 1 |
| ## 1695 | 1 | 0 | 0 | 0 |
| ## 1696 | 0 | 0 | 0 | 1 |
| ## 1697 | 0 | 0 | 0 | 0 |
| ## 1698 | 0 | 0 | 0 | 0 |
| ## 1699 | 0 | 1 | 0 | 0 |
| ## 1700 | 1 | 0 | 0 | 0 |
| ## 1703 | 0 | 0 | 0 | 1 |
| ## 1704 | 1 | 0 | 0 | 1 |
| ## 1705 | 0 | 0 | 0 | 0 |
| ## 1706 | 0 | 1 | 1 | 0 |
| ## 1707 | 1 | 0 | 0 | 0 |
| ## 1708 | 1 | 0 | 0 | 1 |
| ## 1710 | 1 | 0 | 0 | 0 |
| ## 1711 | 1 | 0 | 0 | 0 |
| ## 1713 | 1 | 0 | 0 | 0 |
| ## 1714 | 0 | 0 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1715 | 1 | 1 | 0 | 1 |
| ## 1716 | 0 | 0 | 0 | 1 |
| ## 1717 | 0 | 0 | 0 | 0 |
| ## 1718 | 1 | 0 | 0 | 1 |
| ## 1719 | 0 | 0 | 0 | 0 |
| ## 1722 | 1 | 0 | 1 | 0 |
| ## 1723 | 0 | 0 | 0 | 0 |
| ## 1724 | 1 | 0 | 0 | 0 |
| ## 1725 | 0 | 0 | 0 | 0 |
| ## 1726 | 1 | 0 | 0 | 0 |
| ## 1727 | 0 | 0 | 0 | 0 |
| ## 1729 | 1 | 1 | 0 | 0 |
| ## 1730 | 1 | 0 | 0 | 0 |
| ## 1732 | 0 | 0 | 1 | 0 |
| ## 1733 | 0 | 0 | 1 | 0 |
| ## 1734 | 1 | 0 | 1 | 0 |
| ## 1735 | 0 | 0 | 0 | 0 |
| ## 1736 | 1 | 0 | 0 | 0 |
| ## 1737 | 0 | 1 | 0 | 0 |
| ## 1738 | 1 | 0 | 0 | 0 |
| ## 1741 | 1 | 0 | 1 | 0 |
| ## 1742 | 1 | 0 | 0 | 0 |
| ## 1743 | 0 | 0 | 0 | 0 |
| ## 1744 | 0 | 0 | 0 | 0 |
| ## 1745 | 1 | 0 | 1 | 0 |
| ## 1746 | 1 | 0 | 0 | 0 |
| ## 1748 | 0 | 0 | 0 | 1 |
| ## 1749 | 1 | 0 | 0 | 0 |
| ## 1751 | 1 | 0 | 0 | 0 |
| ## 1752 | 1 | 0 | 0 | 1 |
| ## 1753 | 1 | 0 | 0 | 1 |
| ## 1754 | 0 | 0 | 0 | 0 |
| ## 1755 | 0 | 0 | 0 | 0 |
| ## 1756 | 0 | 0 | 0 | 1 |
| ## 1757 | 1 | 1 | 0 | 0 |
| ## 1760 | 1 | 0 | 0 | 0 |
| ## 1761 | 1 | 0 | 0 | 0 |
| ## 1762 | 1 | 0 | 1 | 1 |
| ## 1763 | 1 | 0 | 0 | 0 |
| ## 1764 | 0 | 0 | 0 | 0 |
| ## 1765 | 0 | 0 | 0 | 1 |
| ## 1767 | 1 | 0 | 1 | 0 |
| ## 1768 | 1 | 1 | 1 | 0 |
| ## 1770 | 0 | 0 | 0 | 0 |
| ## 1771 | 0 | 0 | 0 | 0 |
| ## 1772 | 0 | 0 | 0 | 0 |
| ## 1773 | 1 | 0 | 1 | 0 |
| ## 1774 | 0 | 0 | 0 | 0 |
| ## 1775 | 1 | 0 | 0 | 0 |
| ## 1776 | 0 | 0 | 0 | 0 |
| ## 1779 | 0 | 0 | 0 | 0 |
| ## 1780 | 0 | 0 | 0 | 0 |
| ## 1781 | 1 | 0 | 1 | 0 |
| ## 1782 | 0 | 0 | 1 | 1 |

| | | | | |
|---------|---|---|---|---|
| ## 1783 | 1 | 0 | 0 | 0 |
| ## 1784 | 1 | 0 | 0 | 0 |
| ## 1786 | 1 | 1 | 0 | 0 |
| ## 1787 | 1 | 0 | 1 | 0 |
| ## 1789 | 0 | 1 | 0 | 0 |
| ## 1790 | 1 | 0 | 1 | 0 |
| ## 1791 | 0 | 1 | 1 | 0 |
| ## 1792 | 0 | 0 | 0 | 0 |
| ## 1793 | 1 | 0 | 1 | 0 |
| ## 1794 | 0 | 0 | 0 | 0 |
| ## 1795 | 1 | 0 | 0 | 1 |
| ## 1798 | 0 | 0 | 0 | 0 |
| ## 1799 | 0 | 0 | 0 | 1 |
| ## 1800 | 1 | 0 | 1 | 0 |
| ## 1801 | 0 | 0 | 1 | 0 |
| ## 1802 | 0 | 0 | 0 | 0 |
| ## 1803 | 1 | 0 | 0 | 0 |
| ## 1805 | 1 | 0 | 0 | 1 |
| ## 1806 | 0 | 0 | 0 | 0 |
| ## 1808 | 1 | 0 | 0 | 0 |
| ## 1809 | 1 | 0 | 0 | 1 |
| ## 1810 | 0 | 0 | 0 | 0 |
| ## 1811 | 1 | 0 | 0 | 0 |
| ## 1812 | 1 | 0 | 0 | 0 |
| ## 1813 | 1 | 0 | 1 | 0 |
| ## 1814 | 1 | 0 | 0 | 0 |
| ## 1817 | 1 | 0 | 0 | 1 |
| ## 1818 | 1 | 0 | 0 | 0 |
| ## 1819 | 0 | 0 | 1 | 0 |
| ## 1820 | 1 | 0 | 0 | 0 |
| ## 1821 | 1 | 0 | 0 | 0 |
| ## 1822 | 1 | 0 | 0 | 0 |
| ## 1824 | 1 | 0 | 0 | 0 |
| ## 1825 | 1 | 0 | 0 | 0 |
| ## 1828 | 1 | 1 | 0 | 1 |
| ## 1829 | 0 | 0 | 0 | 1 |
| ## 1830 | 1 | 1 | 1 | 1 |
| ## 1831 | 1 | 0 | 0 | 1 |
| ## 1832 | 0 | 0 | 0 | 0 |
| ## 1833 | 1 | 0 | 0 | 1 |
| ## 1834 | 1 | 0 | 0 | 1 |
| ## 1837 | 0 | 0 | 0 | 0 |
| ## 1838 | 1 | 0 | 0 | 0 |
| ## 1839 | 0 | 0 | 0 | 0 |
| ## 1840 | 0 | 0 | 0 | 0 |
| ## 1841 | 0 | 0 | 0 | 1 |
| ## 1842 | 1 | 0 | 0 | 1 |
| ## 1844 | 1 | 0 | 0 | 1 |
| ## 1845 | 0 | 0 | 1 | 0 |
| ## 1847 | 1 | 0 | 0 | 0 |
| ## 1848 | 0 | 0 | 1 | 0 |
| ## 1849 | 1 | 0 | 1 | 0 |
| ## 1850 | 0 | 0 | 0 | 0 |
| ## 1851 | 0 | 0 | 1 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1852 | 1 | 0 | 0 | 0 |
| ## 1853 | 1 | 0 | 0 | 0 |
| ## 1856 | 0 | 0 | 0 | 0 |
| ## 1857 | 0 | 0 | 0 | 0 |
| ## 1858 | 1 | 0 | 0 | 1 |
| ## 1859 | 0 | 0 | 0 | 0 |
| ## 1860 | 0 | 0 | 0 | 1 |
| ## 1861 | 1 | 0 | 0 | 0 |
| ## 1863 | 1 | 0 | 0 | 0 |
| ## 1864 | 1 | 0 | 0 | 0 |
| ## 1866 | 0 | 0 | 0 | 0 |
| ## 1867 | 0 | 0 | 0 | 0 |
| ## 1868 | 0 | 0 | 1 | 0 |
| ## 1869 | 0 | 1 | 1 | 0 |
| ## 1870 | 1 | 0 | 0 | 0 |
| ## 1871 | 1 | 0 | 0 | 0 |
| ## 1872 | 0 | 0 | 1 | 0 |
| ## 1875 | 1 | 0 | 0 | 0 |
| ## 1876 | 0 | 0 | 0 | 0 |
| ## 1877 | 1 | 0 | 1 | 1 |
| ## 1878 | 0 | 0 | 0 | 1 |
| ## 1879 | 0 | 0 | 0 | 0 |
| ## 1880 | 1 | 0 | 0 | 0 |
| ## 1882 | 0 | 0 | 1 | 0 |
| ## 1883 | 0 | 0 | 0 | 0 |
| ## 1885 | 1 | 0 | 1 | 0 |
| ## 1886 | 0 | 0 | 0 | 1 |
| ## 1887 | 1 | 0 | 0 | 0 |
| ## 1888 | 1 | 0 | 0 | 0 |
| ## 1889 | 1 | 0 | 1 | 1 |
| ## 1890 | 0 | 0 | 0 | 0 |
| ## 1891 | 0 | 0 | 1 | 0 |
| ## 1894 | 0 | 0 | 0 | 0 |
| ## 1895 | 0 | 1 | 0 | 0 |
| ## 1896 | 1 | 0 | 0 | 0 |
| ## 1897 | 0 | 0 | 0 | 0 |
| ## 1898 | 0 | 0 | 0 | 0 |
| ## 1899 | 0 | 0 | 0 | 0 |
| ## 1901 | 1 | 0 | 0 | 1 |
| ## 1902 | 0 | 0 | 0 | 0 |
| ## 1904 | 0 | 0 | 0 | 1 |
| ## 1905 | 1 | 0 | 0 | 1 |
| ## 1906 | 0 | 0 | 0 | 0 |
| ## 1907 | 0 | 0 | 0 | 1 |
| ## 1908 | 0 | 0 | 0 | 0 |
| ## 1909 | 1 | 0 | 0 | 0 |
| ## 1910 | 1 | 0 | 0 | 0 |
| ## 1913 | 0 | 0 | 1 | 0 |
| ## 1914 | 0 | 0 | 0 | 0 |
| ## 1915 | 0 | 0 | 1 | 1 |
| ## 1916 | 0 | 0 | 0 | 1 |
| ## 1917 | 1 | 0 | 1 | 0 |
| ## 1918 | 1 | 0 | 0 | 0 |
| ## 1920 | 1 | 0 | 0 | 1 |

| | | | | |
|---------|---|---|---|---|
| ## 1921 | 0 | 0 | 0 | 0 |
| ## 1923 | 1 | 0 | 0 | 0 |
| ## 1924 | 1 | 0 | 0 | 0 |
| ## 1925 | 1 | 0 | 1 | 1 |
| ## 1926 | 1 | 0 | 0 | 0 |
| ## 1927 | 0 | 0 | 0 | 0 |
| ## 1928 | 1 | 0 | 0 | 0 |
| ## 1929 | 1 | 0 | 0 | 0 |
| ## 1932 | 0 | 0 | 0 | 0 |
| ## 1933 | 0 | 0 | 0 | 0 |
| ## 1934 | 1 | 0 | 1 | 0 |
| ## 1935 | 1 | 0 | 0 | 0 |
| ## 1936 | 1 | 0 | 0 | 1 |
| ## 1937 | 0 | 0 | 0 | 0 |
| ## 1939 | 0 | 0 | 0 | 0 |
| ## 1940 | 0 | 0 | 0 | 0 |
| ## 1942 | 1 | 0 | 0 | 0 |
| ## 1943 | 0 | 0 | 1 | 0 |
| ## 1944 | 1 | 0 | 1 | 0 |
| ## 1945 | 1 | 1 | 1 | 0 |
| ## 1946 | 1 | 0 | 0 | 0 |
| ## 1947 | 1 | 0 | 0 | 0 |
| ## 1948 | 1 | 0 | 0 | 1 |
| ## 1951 | 0 | 0 | 1 | 0 |
| ## 1952 | 0 | 0 | 0 | 0 |
| ## 1953 | 1 | 1 | 0 | 0 |
| ## 1954 | 1 | 0 | 0 | 0 |
| ## 1955 | 1 | 0 | 0 | 0 |
| ## 1956 | 0 | 0 | 0 | 1 |
| ## 1958 | 1 | 0 | 0 | 0 |
| ## 1959 | 1 | 0 | 0 | 0 |
| ## 1961 | 0 | 0 | 0 | 0 |
| ## 1962 | 1 | 0 | 0 | 0 |
| ## 1963 | 0 | 0 | 0 | 0 |
| ## 1964 | 1 | 0 | 0 | 0 |
| ## 1965 | 1 | 0 | 0 | 1 |
| ## 1966 | 0 | 0 | 0 | 0 |
| ## 1967 | 1 | 0 | 1 | 0 |
| ## 1970 | 1 | 1 | 0 | 0 |
| ## 1971 | 0 | 0 | 0 | 0 |
| ## 1972 | 1 | 0 | 0 | 0 |
| ## 1973 | 1 | 0 | 0 | 0 |
| ## 1974 | 0 | 0 | 1 | 0 |
| ## 1975 | 0 | 0 | 0 | 1 |
| ## 1977 | 0 | 0 | 0 | 0 |
| ## 1978 | 0 | 0 | 0 | 0 |
| ## 1980 | 0 | 0 | 0 | 0 |
| ## 1981 | 1 | 0 | 0 | 0 |
| ## 1982 | 0 | 0 | 1 | 0 |
| ## 1983 | 0 | 0 | 0 | 0 |
| ## 1984 | 0 | 0 | 0 | 0 |
| ## 1985 | 0 | 0 | 0 | 1 |
| ## 1986 | 0 | 0 | 1 | 0 |
| ## 1989 | 1 | 0 | 1 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 1990 | 0 | 0 | 0 | 0 |
| ## 1991 | 1 | 1 | 0 | 0 |
| ## 1992 | 0 | 0 | 0 | 0 |
| ## 1993 | 1 | 0 | 0 | 0 |
| ## 1994 | 1 | 0 | 0 | 0 |
| ## 1996 | 1 | 0 | 0 | 0 |
| ## 1997 | 1 | 0 | 0 | 1 |
| ## 1999 | 0 | 0 | 0 | 1 |
| ## 2000 | 0 | 0 | 1 | 0 |
| ## 2001 | 1 | 0 | 1 | 0 |
| ## 2002 | 1 | 0 | 0 | 0 |
| ## 2003 | 1 | 0 | 0 | 0 |
| ## 2004 | 0 | 0 | 0 | 0 |
| ## 2005 | 1 | 1 | 0 | 0 |
| ## 2008 | 0 | 0 | 0 | 0 |
| ## 2009 | 0 | 0 | 0 | 0 |
| ## 2010 | 1 | 0 | 1 | 0 |
| ## 2011 | 1 | 0 | 1 | 1 |
| ## 2012 | 0 | 0 | 1 | 1 |
| ## 2013 | 1 | 0 | 0 | 0 |
| ## 2015 | 1 | 0 | 0 | 0 |
| ## 2016 | 0 | 0 | 0 | 1 |
| ## 2018 | 0 | 1 | 0 | 0 |
| ## 2019 | 0 | 0 | 1 | 0 |
| ## 2020 | 1 | 0 | 0 | 0 |
| ## 2021 | 0 | 0 | 0 | 0 |
| ## 2022 | 1 | 1 | 0 | 0 |
| ## 2023 | 0 | 0 | 0 | 0 |
| ## 2024 | 0 | 0 | 0 | 0 |
| ## 2027 | 1 | 0 | 0 | 0 |
| ## 2028 | 1 | 0 | 0 | 0 |
| ## 2029 | 0 | 1 | 0 | 0 |
| ## 2030 | 0 | 0 | 0 | 1 |
| ## 2031 | 0 | 0 | 0 | 0 |
| ## 2032 | 0 | 0 | 1 | 0 |
| ## 2034 | 1 | 0 | 0 | 0 |
| ## 2035 | 1 | 0 | 0 | 1 |
| ## 2037 | 1 | 0 | 0 | 0 |
| ## 2038 | 1 | 0 | 0 | 0 |
| ## 2039 | 1 | 0 | 0 | 0 |
| ## 2040 | 0 | 0 | 0 | 0 |
| ## 2041 | 0 | 0 | 0 | 0 |
| ## 2042 | 1 | 0 | 0 | 1 |
| ## 2043 | 0 | 0 | 0 | 0 |
| ## 2046 | 1 | 0 | 0 | 0 |
| ## 2047 | 1 | 0 | 0 | 0 |
| ## 2048 | 0 | 0 | 1 | 1 |
| ## 2049 | 0 | 0 | 0 | 1 |
| ## 2050 | 1 | 0 | 1 | 0 |
| ## 2051 | 0 | 0 | 1 | 0 |
| ## 2053 | 1 | 0 | 1 | 0 |
| ## 2054 | 1 | 0 | 0 | 0 |
| ## 2056 | 0 | 0 | 1 | 0 |
| ## 2057 | 1 | 1 | 0 | 0 |

| | | | | |
|---------|---|---|---|---|
| ## 2058 | 1 | 0 | 0 | 0 |
| ## 2059 | 1 | 0 | 1 | 0 |
| ## 2060 | 0 | 0 | 0 | 0 |
| ## 2061 | 0 | 0 | 1 | 0 |
| ## 2062 | 0 | 0 | 1 | 0 |
| ## 2065 | 0 | 1 | 0 | 0 |
| ## 2066 | 1 | 0 | 0 | 0 |
| ## 2067 | 0 | 0 | 0 | 0 |
| ## 2068 | 1 | 0 | 0 | 0 |
| ## 2069 | 1 | 0 | 1 | 0 |
| ## 2070 | 0 | 0 | 0 | 0 |
| ## 2072 | 1 | 1 | 1 | 0 |
| ## 2073 | 0 | 0 | 0 | 0 |
| ## 2075 | 0 | 0 | 1 | 0 |
| ## 2076 | 1 | 0 | 0 | 0 |
| ## 2077 | 0 | 0 | 0 | 1 |
| ## 2078 | 0 | 0 | 0 | 0 |
| ## 2079 | 1 | 0 | 0 | 0 |
| ## 2080 | 0 | 0 | 0 | 0 |
| ## 2081 | 1 | 0 | 0 | 0 |
| ## 2084 | 1 | 0 | 0 | 0 |
| ## 2085 | 1 | 0 | 0 | 0 |
| ## 2086 | 0 | 0 | 0 | 0 |
| ## 2087 | 1 | 0 | 0 | 0 |
| ## 2088 | 0 | 0 | 0 | 1 |
| ## 2089 | 1 | 0 | 0 | 0 |
| ## 2091 | 1 | 0 | 0 | 0 |
| ## 2092 | 0 | 1 | 0 | 0 |
| ## 2094 | 1 | 0 | 0 | 0 |
| ## 2095 | 1 | 0 | 1 | 0 |
| ## 2096 | 0 | 0 | 1 | 0 |
| ## 2097 | 1 | 0 | 1 | 0 |
| ## 2098 | 1 | 0 | 0 | 0 |
| ## 2099 | 0 | 0 | 0 | 0 |
| ## 2100 | 1 | 0 | 1 | 1 |
| ## 2103 | 0 | 1 | 0 | 0 |
| ## 2104 | 0 | 0 | 1 | 1 |
| ## 2105 | 0 | 0 | 1 | 0 |
| ## 2106 | 1 | 0 | 0 | 1 |
| ## 2107 | 0 | 0 | 0 | 0 |
| ## 2108 | 1 | 0 | 0 | 0 |
| ## 2110 | 1 | 1 | 0 | 0 |
| ## 2111 | 1 | 0 | 0 | 0 |
| ## 2113 | 0 | 1 | 0 | 0 |
| ## 2114 | 0 | 0 | 0 | 0 |
| ## 2115 | 0 | 1 | 1 | 0 |
| ## 2116 | 0 | 0 | 0 | 0 |
| ## 2117 | 1 | 0 | 0 | 1 |
| ## 2118 | 1 | 0 | 1 | 0 |
| ## 2119 | 0 | 0 | 0 | 1 |
| ## 2122 | 1 | 0 | 0 | 0 |
| ## 2123 | 0 | 0 | 0 | 0 |
| ## 2124 | 1 | 0 | 0 | 0 |
| ## 2125 | 1 | 0 | 0 | 0 |

```

## 2126      0      0      0      0
## 2127      0      0      0      0
## 2129      1      1      0      1
## 2130      1      0      0      1
## 2132      0      0      0      0
## 2133      1      0      0      1
## 2134      1      0      0      0
## 2135      1      0      0      0
## 2136      0      0      1      0
## 2137      1      0      0      0
## 2138      1      0      0      0
## 2141      1      0      0      0
## 2142      1      0      0      0
## 2143      1      0      0      1
## 2144      0      0      0      1
## 2145      1      0      0      0
## 2146      1      0      0      0
## 2148      0      1      1      0
## 2149      0      1      1      0
## 2151      0      0      0      0
## 2152      1      0      0      0
## 2153      0      0      1      0
## EDUCATION_Bachelors EDUCATION_z_High.School yojSquared bluebook_log
## 1            1      0     144   9.766006
## 3            1      0     100   9.323758
## 4            0      0     196   9.814711
## 5            0      0     121  10.252065
## 6            0      0      0    8.699681
## 7            0      1     169   9.072342
## 8            0      0     169   10.187199
## 9            0      1      81   9.213436
## 12           0      0     196   10.384091
## 13           1      0     144   9.562475
## 14           0      1     144   8.836519
## 15           0      0      64   7.979681
## 16           0      0     121   9.878734
## 17           1      0     121   7.313887
## 19           0      1     144   9.173780
## 20           0      1      36   9.483492
## 22           0      0     100   9.411729
## 23           0      0      49   10.058395
## 24           0      1      0    9.621854
## 25           1      0      0    9.461177
## 26           1      0     121   9.460398
## 27           0      0      49   8.974745
## 28           0      0      64   10.394855
## 31           1      0     121   9.890959
## 32           0      0      0    8.648397
## 33           0      0     225   9.482731
## 34           0      0     256   9.665294
## 35           0      0     324   9.920885
## 36           0      0     144   9.485013
## 38           0      1      0    9.711782
## 39           1      0     225   9.203416

```

| | | | | |
|--------|---|---|-----|-----------|
| ## 41 | 0 | 1 | 196 | 9.467383 |
| ## 42 | 0 | 1 | 0 | 7.313887 |
| ## 43 | 0 | 0 | 121 | 10.658459 |
| ## 44 | 0 | 0 | 169 | 9.536113 |
| ## 45 | 0 | 0 | 196 | 9.549024 |
| ## 46 | 0 | 0 | 144 | 9.607168 |
| ## 47 | 0 | 0 | 144 | 10.091253 |
| ## 50 | 0 | 0 | 121 | 10.317615 |
| ## 51 | 0 | 0 | 144 | 8.881975 |
| ## 52 | 0 | 1 | 64 | 10.019090 |
| ## 53 | 0 | 1 | 0 | 9.806481 |
| ## 54 | 0 | 0 | 169 | 8.942592 |
| ## 55 | 0 | 0 | 81 | 8.575651 |
| ## 57 | 0 | 0 | 64 | 8.039480 |
| ## 58 | 0 | 0 | 169 | 9.908027 |
| ## 60 | 0 | 1 | 144 | 9.363147 |
| ## 61 | 1 | 0 | 144 | 9.371694 |
| ## 62 | 0 | 1 | 16 | 8.716208 |
| ## 63 | 0 | 0 | 144 | 10.054103 |
| ## 64 | 0 | 1 | 81 | 9.934550 |
| ## 65 | 0 | 1 | 64 | 10.014179 |
| ## 66 | 0 | 0 | 0 | 8.699681 |
| ## 69 | 1 | 0 | 144 | 10.063521 |
| ## 70 | 0 | 0 | 196 | 8.848078 |
| ## 71 | 0 | 1 | 81 | 10.265036 |
| ## 72 | 0 | 1 | 81 | 9.348449 |
| ## 73 | 1 | 0 | 121 | 10.039809 |
| ## 74 | 0 | 1 | 49 | 9.703267 |
| ## 76 | 0 | 1 | 169 | 9.231221 |
| ## 77 | 0 | 1 | 144 | 8.605387 |
| ## 79 | 1 | 0 | 0 | 9.054972 |
| ## 80 | 0 | 1 | 144 | 8.982310 |
| ## 81 | 0 | 0 | 64 | 10.282643 |
| ## 82 | 1 | 0 | 0 | 8.318986 |
| ## 83 | 0 | 1 | 121 | 9.351058 |
| ## 84 | 0 | 1 | 64 | 10.143331 |
| ## 85 | 0 | 0 | 121 | 10.107285 |
| ## 88 | 0 | 0 | 0 | 7.313887 |
| ## 89 | 0 | 0 | 169 | 9.133567 |
| ## 90 | 0 | 1 | 169 | 9.379323 |
| ## 91 | 1 | 0 | 121 | 9.344959 |
| ## 92 | 0 | 1 | 144 | 10.031045 |
| ## 93 | 0 | 1 | 49 | 8.912069 |
| ## 95 | 0 | 1 | 121 | 9.991544 |
| ## 96 | 0 | 1 | 64 | 8.764210 |
| ## 98 | 1 | 0 | 36 | 9.551160 |
| ## 99 | 1 | 0 | 25 | 9.144307 |
| ## 100 | 0 | 0 | 25 | 9.695910 |
| ## 101 | 0 | 1 | 144 | 8.455531 |
| ## 102 | 0 | 0 | 324 | 9.850140 |
| ## 103 | 0 | 0 | 169 | 10.176602 |
| ## 104 | 1 | 0 | 225 | 9.572271 |
| ## 107 | 0 | 1 | 81 | 9.119430 |
| ## 108 | 0 | 1 | 49 | 8.623533 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 109 | 0 | 0 | 289 | 9.564582 |
| ## 110 | 0 | 1 | 225 | 9.269646 |
| ## 111 | 0 | 1 | 121 | 9.267760 |
| ## 112 | 1 | 0 | 100 | 8.960725 |
| ## 114 | 0 | 1 | 121 | 9.123802 |
| ## 115 | 1 | 0 | 225 | 9.387733 |
| ## 117 | 0 | 1 | 169 | 8.994793 |
| ## 118 | 1 | 0 | 121 | 9.912497 |
| ## 119 | 0 | 0 | 121 | 8.306719 |
| ## 120 | 0 | 0 | 169 | 8.779711 |
| ## 121 | 0 | 1 | 169 | 10.273705 |
| ## 122 | 0 | 0 | 36 | 9.463509 |
| ## 123 | 0 | 1 | 169 | 9.128154 |
| ## 126 | 1 | 0 | 144 | 8.665786 |
| ## 127 | 1 | 0 | 100 | 9.983269 |
| ## 128 | 0 | 1 | 0 | 9.359708 |
| ## 129 | 0 | 0 | 121 | 10.055393 |
| ## 130 | 1 | 0 | 225 | 7.313887 |
| ## 131 | 0 | 0 | 100 | 10.026634 |
| ## 133 | 1 | 0 | 225 | 8.537192 |
| ## 134 | 0 | 1 | 196 | 9.546884 |
| ## 136 | 1 | 0 | 196 | 9.780246 |
| ## 137 | 0 | 1 | 81 | 10.069044 |
| ## 138 | 1 | 0 | 64 | 8.865170 |
| ## 139 | 0 | 1 | 121 | 10.452793 |
| ## 140 | 0 | 0 | 64 | 10.099917 |
| ## 141 | 0 | 1 | 144 | 9.867912 |
| ## 142 | 1 | 0 | 121 | 9.513477 |
| ## 145 | 0 | 0 | 256 | 8.949105 |
| ## 146 | 0 | 0 | 100 | 9.300272 |
| ## 147 | 0 | 0 | 169 | 9.718422 |
| ## 148 | 0 | 0 | 144 | 8.268988 |
| ## 149 | 0 | 0 | 169 | 9.965100 |
| ## 150 | 0 | 0 | 121 | 10.033682 |
| ## 152 | 0 | 0 | 121 | 8.412055 |
| ## 153 | 1 | 0 | 81 | 10.493522 |
| ## 155 | 0 | 0 | 100 | 8.761080 |
| ## 156 | 1 | 0 | 100 | 9.845382 |
| ## 157 | 0 | 0 | 0 | 7.893945 |
| ## 158 | 0 | 1 | 64 | 9.668461 |
| ## 159 | 0 | 0 | 196 | 9.618535 |
| ## 160 | 0 | 0 | 100 | 8.776630 |
| ## 161 | 1 | 0 | 196 | 9.003439 |
| ## 164 | 0 | 1 | 81 | 8.412055 |
| ## 165 | 0 | 1 | 121 | 8.674368 |
| ## 166 | 1 | 0 | 9 | 9.122711 |
| ## 167 | 0 | 1 | 121 | 9.074635 |
| ## 168 | 1 | 0 | 169 | 9.405989 |
| ## 169 | 0 | 1 | 196 | 8.993552 |
| ## 171 | 0 | 1 | 81 | 9.257319 |
| ## 172 | 1 | 0 | 36 | 8.867991 |
| ## 174 | 1 | 0 | 256 | 10.086267 |
| ## 175 | 1 | 0 | 81 | 10.137808 |
| ## 176 | 1 | 0 | 49 | 7.692113 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 177 | 0 | 1 | 0 | 7.313887 |
| ## 178 | 1 | 0 | 100 | 9.775711 |
| ## 179 | 0 | 0 | 225 | 10.222705 |
| ## 180 | 0 | 0 | 169 | 9.686015 |
| ## 183 | 1 | 0 | 100 | 9.946116 |
| ## 184 | 0 | 0 | 81 | 10.502077 |
| ## 185 | 0 | 0 | 81 | 10.510287 |
| ## 186 | 0 | 1 | 196 | 9.266815 |
| ## 187 | 0 | 1 | 169 | 8.588769 |
| ## 188 | 1 | 0 | 0 | 8.764210 |
| ## 190 | 1 | 0 | 169 | 9.538996 |
| ## 191 | 0 | 1 | 121 | 8.476580 |
| ## 193 | 0 | 1 | 0 | 9.222368 |
| ## 194 | 0 | 1 | 144 | 8.748464 |
| ## 195 | 1 | 0 | 144 | 10.185692 |
| ## 196 | 0 | 1 | 196 | 10.192831 |
| ## 197 | 0 | 1 | 64 | 9.150697 |
| ## 198 | 0 | 1 | 169 | 9.378478 |
| ## 199 | 0 | 0 | 81 | 10.156229 |
| ## 202 | 0 | 0 | 144 | 9.426338 |
| ## 203 | 0 | 1 | 121 | 9.762557 |
| ## 204 | 0 | 1 | 121 | 9.454932 |
| ## 205 | 0 | 1 | 196 | 9.506809 |
| ## 206 | 0 | 0 | 100 | 9.932609 |
| ## 207 | 0 | 0 | 169 | 10.328134 |
| ## 209 | 0 | 1 | 81 | 8.619930 |
| ## 210 | 0 | 1 | 0 | 9.371694 |
| ## 212 | 0 | 1 | 0 | 8.812992 |
| ## 213 | 0 | 0 | 256 | 9.282754 |
| ## 214 | 0 | 0 | 256 | 9.376787 |
| ## 215 | 0 | 1 | 0 | 9.581973 |
| ## 216 | 0 | 1 | 144 | 7.754053 |
| ## 217 | 1 | 0 | 100 | 9.157045 |
| ## 218 | 0 | 0 | 64 | 9.976784 |
| ## 221 | 1 | 0 | 121 | 9.805378 |
| ## 222 | 0 | 1 | 0 | 8.974745 |
| ## 223 | 1 | 0 | 0 | 8.517393 |
| ## 224 | 0 | 1 | 0 | 8.812992 |
| ## 225 | 0 | 0 | 0 | 10.070315 |
| ## 226 | 0 | 1 | 121 | 9.061956 |
| ## 228 | 0 | 0 | 100 | 10.029724 |
| ## 229 | 0 | 1 | 256 | 9.589530 |
| ## 231 | 0 | 1 | 196 | 8.699681 |
| ## 232 | 1 | 0 | 100 | 8.674368 |
| ## 233 | 0 | 0 | 256 | 9.993374 |
| ## 234 | 0 | 1 | 121 | 9.621191 |
| ## 235 | 0 | 0 | 100 | 9.058470 |
| ## 236 | 0 | 1 | 196 | 9.097284 |
| ## 237 | 0 | 1 | 81 | 9.326433 |
| ## 240 | 0 | 1 | 169 | 8.581294 |
| ## 241 | 0 | 1 | 100 | 9.659567 |
| ## 242 | 0 | 0 | 196 | 9.303011 |
| ## 243 | 1 | 0 | 144 | 9.241936 |
| ## 244 | 0 | 1 | 121 | 9.587475 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 245 | 0 | 1 | 256 | 10.062668 |
| ## 247 | 0 | 0 | 144 | 8.594339 |
| ## 248 | 0 | 0 | 196 | 8.956866 |
| ## 250 | 1 | 0 | 100 | 9.410911 |
| ## 251 | 0 | 0 | 81 | 9.981420 |
| ## 252 | 0 | 1 | 196 | 7.313887 |
| ## 253 | 0 | 0 | 0 | 8.568076 |
| ## 254 | 0 | 0 | 144 | 9.558247 |
| ## 255 | 1 | 0 | 64 | 10.523553 |
| ## 256 | 0 | 0 | 144 | 7.313887 |
| ## 259 | 1 | 0 | 0 | 7.313887 |
| ## 260 | 0 | 1 | 169 | 9.206433 |
| ## 261 | 0 | 1 | 81 | 9.842197 |
| ## 262 | 0 | 1 | 169 | 9.484253 |
| ## 263 | 0 | 0 | 256 | 8.474494 |
| ## 264 | 0 | 0 | 169 | 9.888425 |
| ## 266 | 1 | 0 | 196 | 9.940350 |
| ## 267 | 0 | 0 | 49 | 9.367430 |
| ## 269 | 0 | 0 | 121 | 9.893993 |
| ## 270 | 0 | 0 | 121 | 9.601774 |
| ## 271 | 0 | 0 | 144 | 9.999298 |
| ## 272 | 1 | 0 | 100 | 8.243019 |
| ## 273 | 0 | 0 | 100 | 9.273409 |
| ## 274 | 1 | 0 | 36 | 9.939385 |
| ## 275 | 0 | 0 | 121 | 9.436759 |
| ## 278 | 0 | 1 | 0 | 8.987322 |
| ## 279 | 0 | 0 | 100 | 9.470471 |
| ## 280 | 0 | 1 | 121 | 9.903037 |
| ## 281 | 0 | 1 | 144 | 8.537192 |
| ## 282 | 1 | 0 | 0 | 8.863757 |
| ## 283 | 0 | 0 | 0 | 10.045898 |
| ## 285 | 1 | 0 | 49 | 8.810012 |
| ## 286 | 1 | 0 | 49 | 9.556126 |
| ## 288 | 0 | 0 | 196 | 10.012835 |
| ## 289 | 0 | 1 | 169 | 9.692828 |
| ## 290 | 0 | 1 | 144 | 9.314790 |
| ## 291 | 0 | 0 | 100 | 8.801018 |
| ## 292 | 0 | 1 | 0 | 9.361429 |
| ## 293 | 0 | 0 | 0 | 8.963288 |
| ## 294 | 0 | 1 | 25 | 8.876405 |
| ## 297 | 0 | 1 | 289 | 9.292934 |
| ## 298 | 0 | 0 | 169 | 8.810012 |
| ## 299 | 0 | 0 | 100 | 9.148571 |
| ## 300 | 0 | 0 | 121 | 9.895002 |
| ## 301 | 0 | 0 | 144 | 9.784760 |
| ## 302 | 0 | 0 | 196 | 9.273409 |
| ## 304 | 0 | 0 | 196 | 8.592486 |
| ## 305 | 0 | 0 | 169 | 9.605822 |
| ## 307 | 0 | 0 | 144 | 9.155990 |
| ## 308 | 0 | 1 | 121 | 9.169623 |
| ## 309 | 1 | 0 | 0 | 9.423918 |
| ## 310 | 0 | 1 | 0 | 8.958154 |
| ## 311 | 0 | 0 | 196 | 9.781941 |
| ## 312 | 0 | 1 | 256 | 9.853825 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 313 | 0 | 1 | 100 | 9.789815 |
| ## 316 | 1 | 0 | 121 | 9.657651 |
| ## 317 | 0 | 1 | 169 | 9.027739 |
| ## 318 | 0 | 1 | 0 | 9.511999 |
| ## 319 | 0 | 1 | 144 | 9.144307 |
| ## 320 | 0 | 0 | 100 | 10.071161 |
| ## 321 | 0 | 1 | 169 | 9.430359 |
| ## 323 | 0 | 0 | 196 | 10.246048 |
| ## 324 | 1 | 0 | 196 | 9.102867 |
| ## 326 | 0 | 0 | 100 | 9.395242 |
| ## 327 | 0 | 0 | 144 | 9.407633 |
| ## 328 | 0 | 1 | 144 | 8.653645 |
| ## 329 | 0 | 0 | 36 | 8.853808 |
| ## 330 | 1 | 0 | 121 | 9.672249 |
| ## 331 | 0 | 1 | 100 | 7.313887 |
| ## 332 | 0 | 0 | 169 | 10.275775 |
| ## 335 | 0 | 1 | 169 | 9.193296 |
| ## 336 | 0 | 1 | 121 | 8.842316 |
| ## 337 | 0 | 0 | 0 | 9.581973 |
| ## 338 | 0 | 0 | 144 | 9.331761 |
| ## 339 | 0 | 0 | 49 | 10.839012 |
| ## 340 | 1 | 0 | 196 | 10.354277 |
| ## 342 | 0 | 0 | 256 | 9.636980 |
| ## 343 | 0 | 1 | 196 | 8.665786 |
| ## 345 | 0 | 1 | 225 | 9.945157 |
| ## 346 | 1 | 0 | 81 | 10.410937 |
| ## 347 | 0 | 1 | 144 | 9.851720 |
| ## 348 | 0 | 0 | 169 | 9.949942 |
| ## 349 | 0 | 0 | 121 | 9.370842 |
| ## 350 | 1 | 0 | 225 | 8.779711 |
| ## 351 | 0 | 0 | 64 | 9.162305 |
| ## 354 | 0 | 0 | 144 | 8.537192 |
| ## 355 | 0 | 1 | 169 | 9.434364 |
| ## 356 | 0 | 1 | 225 | 9.986035 |
| ## 357 | 1 | 0 | 121 | 8.796490 |
| ## 358 | 1 | 0 | 4 | 9.185125 |
| ## 359 | 0 | 0 | 196 | 9.804827 |
| ## 361 | 0 | 1 | 144 | 8.765771 |
| ## 362 | 0 | 1 | 0 | 10.127471 |
| ## 364 | 0 | 0 | 144 | 8.891649 |
| ## 365 | 1 | 0 | 0 | 8.455531 |
| ## 366 | 0 | 0 | 0 | 9.736311 |
| ## 367 | 0 | 0 | 36 | 9.873595 |
| ## 368 | 1 | 0 | 121 | 9.357984 |
| ## 369 | 0 | 0 | 256 | 10.310651 |
| ## 370 | 0 | 1 | 81 | 9.493336 |
| ## 373 | 0 | 1 | 81 | 10.054963 |
| ## 374 | 0 | 0 | 121 | 9.936003 |
| ## 375 | 0 | 1 | 36 | 10.058823 |
| ## 376 | 0 | 1 | 144 | 9.303922 |
| ## 377 | 1 | 0 | 225 | 9.856972 |
| ## 378 | 0 | 0 | 49 | 10.225245 |
| ## 380 | 0 | 1 | 256 | 9.676650 |
| ## 381 | 1 | 0 | 144 | 10.002020 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 383 | 0 | 0 | 81 | 9.868430 |
| ## 384 | 0 | 0 | 256 | 10.432968 |
| ## 385 | 0 | 1 | 16 | 9.534668 |
| ## 386 | 0 | 0 | 169 | 10.491024 |
| ## 387 | 0 | 1 | 100 | 10.226332 |
| ## 388 | 0 | 0 | 144 | 9.987875 |
| ## 389 | 0 | 1 | 256 | 10.072851 |
| ## 392 | 0 | 0 | 196 | 10.280930 |
| ## 393 | 1 | 0 | 0 | 9.429556 |
| ## 394 | 0 | 1 | 64 | 8.977273 |
| ## 395 | 0 | 1 | 196 | 8.556606 |
| ## 396 | 1 | 0 | 196 | 9.752723 |
| ## 397 | 1 | 0 | 0 | 8.839422 |
| ## 399 | 0 | 0 | 121 | 9.533221 |
| ## 400 | 0 | 1 | 36 | 9.458840 |
| ## 402 | 0 | 0 | 225 | 7.727976 |
| ## 403 | 0 | 1 | 9 | 8.343078 |
| ## 404 | 0 | 1 | 225 | 8.869398 |
| ## 405 | 0 | 0 | 121 | 9.438352 |
| ## 406 | 0 | 0 | 64 | 9.449436 |
| ## 407 | 0 | 1 | 144 | 8.521384 |
| ## 408 | 0 | 1 | 81 | 8.762646 |
| ## 411 | 0 | 0 | 81 | 7.313887 |
| ## 412 | 0 | 0 | 144 | 9.748645 |
| ## 413 | 1 | 0 | 100 | 10.088348 |
| ## 414 | 0 | 1 | 144 | 10.208801 |
| ## 415 | 0 | 0 | 144 | 9.669093 |
| ## 416 | 0 | 1 | 49 | 8.812992 |
| ## 418 | 1 | 0 | 64 | 9.984653 |
| ## 419 | 0 | 1 | 169 | 7.897668 |
| ## 421 | 1 | 0 | 0 | 8.768885 |
| ## 422 | 0 | 1 | 121 | 8.630700 |
| ## 423 | 0 | 1 | 0 | 9.066585 |
| ## 424 | 0 | 1 | 64 | 9.287394 |
| ## 425 | 1 | 0 | 256 | 8.672657 |
| ## 426 | 1 | 0 | 64 | 8.848078 |
| ## 427 | 0 | 1 | 225 | 9.483492 |
| ## 430 | 0 | 1 | 64 | 9.559658 |
| ## 431 | 0 | 1 | 196 | 9.770013 |
| ## 432 | 1 | 0 | 121 | 9.451795 |
| ## 433 | 0 | 0 | 64 | 7.313887 |
| ## 434 | 0 | 0 | 144 | 9.317489 |
| ## 435 | 1 | 0 | 144 | 9.489562 |
| ## 437 | 0 | 1 | 196 | 9.123802 |
| ## 438 | 0 | 1 | 64 | 8.982310 |
| ## 440 | 0 | 0 | 169 | 9.863238 |
| ## 441 | 1 | 0 | 121 | 9.858542 |
| ## 442 | 0 | 1 | 169 | 10.229585 |
| ## 443 | 0 | 1 | 100 | 8.748464 |
| ## 444 | 1 | 0 | 0 | 9.096163 |
| ## 445 | 1 | 0 | 0 | 8.533263 |
| ## 446 | 0 | 0 | 121 | 8.926783 |
| ## 449 | 0 | 0 | 169 | 9.634366 |
| ## 450 | 1 | 0 | 169 | 9.442325 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 451 | 0 | 1 | 0 | 8.867991 |
| ## 452 | 0 | 0 | 144 | 8.982310 |
| ## 453 | 0 | 0 | 100 | 9.190240 |
| ## 454 | 0 | 1 | 169 | 9.763133 |
| ## 456 | 0 | 0 | 81 | 9.898525 |
| ## 457 | 1 | 0 | 121 | 9.792053 |
| ## 459 | 1 | 0 | 256 | 9.387733 |
| ## 460 | 0 | 0 | 196 | 8.497195 |
| ## 461 | 0 | 0 | 196 | 9.610525 |
| ## 462 | 0 | 1 | 0 | 8.682877 |
| ## 463 | 0 | 1 | 121 | 9.552582 |
| ## 464 | 0 | 1 | 100 | 8.575651 |
| ## 465 | 0 | 0 | 100 | 8.497195 |
| ## 468 | 0 | 1 | 121 | 7.576097 |
| ## 469 | 0 | 0 | 169 | 9.183072 |
| ## 470 | 1 | 0 | 256 | 10.127071 |
| ## 471 | 0 | 0 | 144 | 10.215777 |
| ## 472 | 1 | 0 | 144 | 9.357121 |
| ## 473 | 1 | 0 | 169 | 9.136801 |
| ## 475 | 0 | 0 | 0 | 8.977273 |
| ## 476 | 0 | 1 | 169 | 9.942756 |
| ## 478 | 0 | 1 | 144 | 8.867991 |
| ## 479 | 0 | 1 | 225 | 9.362289 |
| ## 480 | 1 | 0 | 0 | 8.412055 |
| ## 481 | 1 | 0 | 169 | 9.541154 |
| ## 482 | 1 | 0 | 169 | 9.273409 |
| ## 483 | 0 | 0 | 121 | 9.973993 |
| ## 484 | 1 | 0 | 121 | 8.630700 |
| ## 487 | 1 | 0 | 144 | 7.313887 |
| ## 488 | 0 | 1 | 100 | 9.358847 |
| ## 489 | 0 | 1 | 196 | 9.399389 |
| ## 490 | 0 | 0 | 0 | 9.506065 |
| ## 491 | 1 | 0 | 121 | 9.465835 |
| ## 492 | 1 | 0 | 0 | 8.318986 |
| ## 494 | 0 | 0 | 64 | 10.146865 |
| ## 495 | 0 | 1 | 196 | 8.610866 |
| ## 497 | 0 | 1 | 196 | 9.278092 |
| ## 498 | 0 | 1 | 121 | 9.724421 |
| ## 499 | 1 | 0 | 0 | 9.307558 |
| ## 500 | 0 | 0 | 121 | 10.002020 |
| ## 501 | 1 | 0 | 144 | 9.173780 |
| ## 502 | 0 | 1 | 64 | 9.894497 |
| ## 503 | 0 | 0 | 196 | 10.136621 |
| ## 506 | 0 | 1 | 121 | 9.321076 |
| ## 507 | 1 | 0 | 100 | 8.810012 |
| ## 508 | 0 | 0 | 225 | 9.623178 |
| ## 509 | 0 | 0 | 16 | 8.856661 |
| ## 510 | 0 | 0 | 144 | 9.899530 |
| ## 511 | 1 | 0 | 225 | 9.420682 |
| ## 513 | 0 | 0 | 169 | 8.343078 |
| ## 514 | 0 | 1 | 0 | 8.776630 |
| ## 516 | 0 | 1 | 0 | 8.575651 |
| ## 517 | 0 | 0 | 25 | 8.472405 |
| ## 518 | 0 | 1 | 100 | 9.245804 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 519 | 0 | 0 | 100 | 10.270593 |
| ## 520 | 1 | 0 | 100 | 9.999298 |
| ## 521 | 0 | 1 | 169 | 9.236106 |
| ## 522 | 0 | 1 | 81 | 10.537972 |
| ## 525 | 0 | 1 | 256 | 8.529319 |
| ## 526 | 0 | 1 | 121 | 9.209440 |
| ## 527 | 0 | 0 | 225 | 9.633711 |
| ## 528 | 0 | 0 | 49 | 10.219064 |
| ## 529 | 0 | 1 | 169 | 9.216422 |
| ## 530 | 0 | 1 | 196 | 9.194313 |
| ## 532 | 1 | 0 | 121 | 9.742203 |
| ## 533 | 1 | 0 | 169 | 9.648660 |
| ## 535 | 0 | 0 | 0 | 8.922792 |
| ## 536 | 0 | 1 | 100 | 9.284613 |
| ## 537 | 0 | 1 | 100 | 9.523032 |
| ## 538 | 1 | 0 | 196 | 9.606496 |
| ## 539 | 0 | 0 | 100 | 9.205428 |
| ## 540 | 0 | 1 | 121 | 7.313887 |
| ## 541 | 1 | 0 | 121 | 8.974745 |
| ## 544 | 1 | 0 | 81 | 9.382696 |
| ## 545 | 0 | 0 | 100 | 9.887409 |
| ## 546 | 0 | 1 | 121 | 9.761982 |
| ## 547 | 0 | 0 | 0 | 10.632750 |
| ## 548 | 0 | 1 | 121 | 9.594990 |
| ## 549 | 0 | 0 | 121 | 9.741027 |
| ## 551 | 1 | 0 | 100 | 9.803170 |
| ## 552 | 0 | 1 | 81 | 9.919902 |
| ## 554 | 0 | 0 | 81 | 9.780246 |
| ## 555 | 0 | 0 | 49 | 9.351058 |
| ## 556 | 0 | 0 | 64 | 9.941313 |
| ## 557 | 0 | 1 | 100 | 9.789815 |
| ## 558 | 0 | 1 | 144 | 8.497195 |
| ## 559 | 0 | 1 | 144 | 8.294300 |
| ## 560 | 0 | 0 | 49 | 9.581973 |
| ## 563 | 0 | 0 | 64 | 10.334978 |
| ## 564 | 0 | 0 | 49 | 9.321971 |
| ## 565 | 0 | 1 | 256 | 9.705098 |
| ## 566 | 0 | 1 | 196 | 9.448648 |
| ## 567 | 0 | 1 | 0 | 9.260178 |
| ## 568 | 1 | 0 | 121 | 9.478151 |
| ## 570 | 0 | 1 | 100 | 9.031333 |
| ## 571 | 0 | 1 | 25 | 8.497195 |
| ## 573 | 0 | 0 | 144 | 9.049115 |
| ## 574 | 0 | 1 | 49 | 9.669093 |
| ## 575 | 0 | 1 | 144 | 9.316590 |
| ## 576 | 1 | 0 | 225 | 9.729194 |
| ## 577 | 0 | 1 | 169 | 8.712924 |
| ## 578 | 0 | 1 | 121 | 9.728003 |
| ## 579 | 0 | 1 | 81 | 9.923829 |
| ## 582 | 0 | 1 | 144 | 7.450661 |
| ## 583 | 0 | 0 | 36 | 9.461177 |
| ## 584 | 0 | 1 | 121 | 8.235095 |
| ## 585 | 0 | 0 | 144 | 9.167537 |
| ## 586 | 0 | 0 | 121 | 10.154285 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 587 | 1 | 0 | 64 | 9.143239 |
| ## 589 | 0 | 0 | 121 | 9.051462 |
| ## 590 | 1 | 0 | 144 | 8.910721 |
| ## 592 | 0 | 0 | 196 | 9.923339 |
| ## 593 | 0 | 0 | 196 | 9.216422 |
| ## 594 | 0 | 1 | 196 | 9.570878 |
| ## 595 | 0 | 0 | 121 | 9.737492 |
| ## 596 | 0 | 0 | 144 | 8.612685 |
| ## 597 | 1 | 0 | 0 | 8.630700 |
| ## 598 | 0 | 0 | 196 | 9.075780 |
| ## 601 | 0 | 1 | 225 | 9.802064 |
| ## 602 | 1 | 0 | 169 | 10.159331 |
| ## 603 | 0 | 0 | 100 | 7.313887 |
| ## 604 | 0 | 1 | 0 | 10.286400 |
| ## 605 | 1 | 0 | 81 | 9.151757 |
| ## 606 | 0 | 0 | 169 | 9.987415 |
| ## 608 | 1 | 0 | 0 | 8.791942 |
| ## 609 | 0 | 0 | 81 | 9.385218 |
| ## 611 | 0 | 0 | 196 | 9.193296 |
| ## 612 | 0 | 0 | 144 | 9.502338 |
| ## 613 | 1 | 0 | 169 | 9.599744 |
| ## 614 | 0 | 0 | 144 | 9.961804 |
| ## 615 | 0 | 1 | 256 | 9.699595 |
| ## 616 | 1 | 0 | 121 | 10.348526 |
| ## 617 | 1 | 0 | 36 | 7.313887 |
| ## 620 | 0 | 1 | 100 | 9.338822 |
| ## 621 | 0 | 0 | 81 | 9.961332 |
| ## 622 | 0 | 0 | 196 | 9.636327 |
| ## 623 | 0 | 0 | 81 | 9.610525 |
| ## 624 | 1 | 0 | 64 | 8.434029 |
| ## 625 | 0 | 0 | 100 | 10.345638 |
| ## 627 | 0 | 1 | 169 | 8.732466 |
| ## 628 | 0 | 1 | 64 | 10.635158 |
| ## 630 | 0 | 0 | 144 | 8.794976 |
| ## 631 | 1 | 0 | 144 | 10.123065 |
| ## 632 | 0 | 1 | 196 | 8.886133 |
| ## 633 | 0 | 1 | 0 | 9.884865 |
| ## 634 | 0 | 1 | 169 | 10.261197 |
| ## 635 | 0 | 1 | 0 | 8.682877 |
| ## 636 | 0 | 1 | 100 | 9.800956 |
| ## 639 | 0 | 1 | 121 | 9.171703 |
| ## 640 | 0 | 1 | 49 | 9.973993 |
| ## 641 | 0 | 0 | 225 | 9.210440 |
| ## 642 | 0 | 1 | 0 | 8.412055 |
| ## 643 | 1 | 0 | 81 | 9.837935 |
| ## 644 | 1 | 0 | 169 | 9.847499 |
| ## 646 | 1 | 0 | 100 | 9.867912 |
| ## 647 | 0 | 0 | 100 | 9.354527 |
| ## 649 | 0 | 1 | 100 | 9.273409 |
| ## 650 | 0 | 1 | 0 | 8.476580 |
| ## 651 | 0 | 0 | 169 | 9.127067 |
| ## 652 | 0 | 1 | 100 | 8.730852 |
| ## 653 | 0 | 1 | 196 | 9.488048 |
| ## 654 | 0 | 1 | 121 | 10.172789 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 655 | 0 | 1 | 121 | 9.414994 |
| ## 658 | 0 | 0 | 0 | 9.679781 |
| ## 659 | 0 | 1 | 0 | 7.313887 |
| ## 660 | 0 | 1 | 121 | 8.823353 |
| ## 661 | 0 | 0 | 121 | 10.009243 |
| ## 662 | 0 | 0 | 64 | 9.571575 |
| ## 663 | 0 | 0 | 144 | 9.145375 |
| ## 665 | 0 | 0 | 25 | 8.609043 |
| ## 666 | 1 | 0 | 81 | 10.123466 |
| ## 668 | 0 | 0 | 289 | 9.677904 |
| ## 669 | 0 | 1 | 169 | 9.639587 |
| ## 670 | 0 | 0 | 144 | 9.592264 |
| ## 671 | 1 | 0 | 144 | 9.367430 |
| ## 672 | 0 | 1 | 196 | 9.255409 |
| ## 673 | 1 | 0 | 169 | 9.757941 |
| ## 674 | 0 | 0 | 9 | 9.945637 |
| ## 677 | 0 | 0 | 81 | 10.151948 |
| ## 678 | 0 | 1 | 64 | 9.820160 |
| ## 679 | 0 | 0 | 144 | 10.533455 |
| ## 680 | 0 | 0 | 49 | 10.115813 |
| ## 681 | 0 | 1 | 225 | 9.347577 |
| ## 682 | 0 | 0 | 121 | 9.475086 |
| ## 684 | 0 | 0 | 144 | 9.623178 |
| ## 685 | 0 | 1 | 121 | 9.147507 |
| ## 687 | 0 | 1 | 0 | 8.686261 |
| ## 688 | 0 | 0 | 64 | 8.594339 |
| ## 689 | 0 | 1 | 144 | 9.093919 |
| ## 690 | 0 | 1 | 144 | 7.313887 |
| ## 691 | 0 | 1 | 0 | 8.350194 |
| ## 692 | 1 | 0 | 225 | 9.328212 |
| ## 693 | 1 | 0 | 256 | 9.664659 |
| ## 696 | 0 | 1 | 0 | 7.313887 |
| ## 697 | 0 | 1 | 81 | 9.507552 |
| ## 698 | 0 | 1 | 196 | 9.767152 |
| ## 699 | 0 | 1 | 169 | 9.811427 |
| ## 700 | 0 | 0 | 196 | 9.653165 |
| ## 701 | 0 | 1 | 144 | 8.872207 |
| ## 703 | 1 | 0 | 81 | 9.942756 |
| ## 704 | 1 | 0 | 64 | 9.278092 |
| ## 706 | 0 | 0 | 81 | 10.187576 |
| ## 707 | 0 | 0 | 121 | 9.170664 |
| ## 708 | 1 | 0 | 64 | 9.352794 |
| ## 709 | 0 | 0 | 225 | 10.359044 |
| ## 710 | 0 | 0 | 100 | 9.478151 |
| ## 711 | 1 | 0 | 121 | 10.076642 |
| ## 712 | 0 | 1 | 121 | 9.998843 |
| ## 715 | 0 | 0 | 225 | 10.093322 |
| ## 716 | 1 | 0 | 169 | 9.280892 |
| ## 717 | 0 | 0 | 196 | 9.082621 |
| ## 718 | 0 | 1 | 169 | 8.486940 |
| ## 719 | 0 | 1 | 121 | 7.313887 |
| ## 720 | 0 | 1 | 0 | 8.517393 |
| ## 722 | 0 | 1 | 225 | 9.593628 |
| ## 723 | 0 | 1 | 144 | 9.400217 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 725 | 0 | 0 | 196 | 10.201405 |
| ## 726 | 1 | 0 | 0 | 8.839422 |
| ## 727 | 0 | 1 | 0 | 8.665786 |
| ## 728 | 0 | 1 | 225 | 9.685394 |
| ## 729 | 0 | 0 | 121 | 9.901536 |
| ## 730 | 0 | 0 | 196 | 9.258273 |
| ## 731 | 0 | 0 | 196 | 10.786862 |
| ## 734 | 0 | 0 | 196 | 9.439943 |
| ## 735 | 0 | 0 | 100 | 9.568784 |
| ## 736 | 0 | 0 | 100 | 8.143517 |
| ## 737 | 0 | 0 | 0 | 9.981420 |
| ## 738 | 0 | 0 | 64 | 9.995656 |
| ## 739 | 0 | 1 | 81 | 10.180020 |
| ## 741 | 0 | 1 | 100 | 8.630700 |
| ## 742 | 0 | 0 | 169 | 10.224520 |
| ## 744 | 0 | 0 | 100 | 10.070315 |
| ## 745 | 0 | 1 | 16 | 7.313887 |
| ## 746 | 0 | 0 | 0 | 8.765771 |
| ## 747 | 0 | 0 | 81 | 8.798002 |
| ## 748 | 1 | 0 | 121 | 8.862342 |
| ## 749 | 1 | 0 | 100 | 8.817446 |
| ## 750 | 0 | 0 | 0 | 7.313887 |
| ## 753 | 0 | 1 | 121 | 9.798183 |
| ## 754 | 0 | 1 | 196 | 9.806481 |
| ## 755 | 1 | 0 | 169 | 9.290168 |
| ## 756 | 0 | 1 | 0 | 8.698014 |
| ## 757 | 1 | 0 | 121 | 8.879194 |
| ## 758 | 0 | 1 | 144 | 8.108021 |
| ## 760 | 0 | 1 | 121 | 10.459698 |
| ## 761 | 0 | 1 | 169 | 9.306650 |
| ## 763 | 0 | 0 | 289 | 9.057306 |
| ## 764 | 0 | 1 | 64 | 9.579211 |
| ## 765 | 1 | 0 | 100 | 8.658866 |
| ## 766 | 0 | 0 | 36 | 8.385032 |
| ## 767 | 0 | 0 | 361 | 9.786448 |
| ## 768 | 0 | 1 | 144 | 8.991064 |
| ## 769 | 0 | 1 | 0 | 9.538996 |
| ## 772 | 0 | 1 | 64 | 8.924124 |
| ## 773 | 0 | 0 | 196 | 9.757363 |
| ## 774 | 0 | 1 | 121 | 9.908027 |
| ## 775 | 0 | 1 | 100 | 8.412055 |
| ## 776 | 1 | 0 | 100 | 9.176887 |
| ## 777 | 0 | 1 | 64 | 10.315299 |
| ## 779 | 0 | 0 | 100 | 10.069891 |
| ## 780 | 0 | 1 | 121 | 8.691315 |
| ## 782 | 0 | 1 | 100 | 9.874625 |
| ## 783 | 0 | 0 | 196 | 9.619200 |
| ## 784 | 0 | 0 | 100 | 8.810012 |
| ## 785 | 0 | 1 | 289 | 8.991064 |
| ## 786 | 0 | 1 | 169 | 9.696525 |
| ## 787 | 0 | 0 | 144 | 9.182044 |
| ## 788 | 0 | 1 | 121 | 10.211377 |
| ## 791 | 0 | 1 | 196 | 9.455715 |
| ## 792 | 0 | 0 | 169 | 10.026634 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 793 | 1 | 0 | 81 | 10.166275 |
| ## 794 | 0 | 1 | 0 | 9.609184 |
| ## 795 | 0 | 0 | 169 | 9.196343 |
| ## 796 | 1 | 0 | 0 | 8.064951 |
| ## 798 | 0 | 0 | 25 | 8.261268 |
| ## 799 | 1 | 0 | 225 | 9.287394 |
| ## 801 | 0 | 0 | 100 | 9.647369 |
| ## 802 | 0 | 1 | 9 | 9.339701 |
| ## 803 | 0 | 1 | 100 | 9.893993 |
| ## 804 | 0 | 1 | 0 | 9.924809 |
| ## 805 | 0 | 0 | 121 | 8.200014 |
| ## 806 | 1 | 0 | 169 | 9.337942 |
| ## 807 | 1 | 0 | 64 | 9.897520 |
| ## 810 | 0 | 0 | 196 | 9.163354 |
| ## 811 | 1 | 0 | 121 | 9.263976 |
| ## 812 | 0 | 1 | 169 | 9.388570 |
| ## 813 | 1 | 0 | 9 | 9.811975 |
| ## 814 | 0 | 1 | 225 | 9.119430 |
| ## 815 | 0 | 1 | 0 | 8.665786 |
| ## 817 | 0 | 1 | 121 | 9.468928 |
| ## 818 | 0 | 0 | 144 | 11.038769 |
| ## 820 | 0 | 1 | 169 | 9.430359 |
| ## 821 | 0 | 1 | 169 | 9.794286 |
| ## 822 | 0 | 0 | 196 | 8.908018 |
| ## 823 | 0 | 1 | 289 | 9.603125 |
| ## 824 | 1 | 0 | 81 | 9.155990 |
| ## 825 | 0 | 1 | 121 | 9.384378 |
| ## 826 | 0 | 1 | 121 | 10.189456 |
| ## 829 | 0 | 1 | 0 | 10.006089 |
| ## 830 | 1 | 0 | 25 | 9.607168 |
| ## 831 | 0 | 0 | 121 | 10.026192 |
| ## 832 | 0 | 0 | 64 | 8.537192 |
| ## 833 | 0 | 1 | 100 | 10.111761 |
| ## 834 | 0 | 0 | 64 | 10.087932 |
| ## 836 | 0 | 0 | 121 | 9.702044 |
| ## 837 | 0 | 1 | 0 | 8.630700 |
| ## 839 | 0 | 1 | 0 | 9.404343 |
| ## 840 | 0 | 0 | 25 | 9.438352 |
| ## 841 | 0 | 0 | 0 | 8.665786 |
| ## 842 | 0 | 0 | 169 | 9.216422 |
| ## 843 | 1 | 0 | 121 | 9.739261 |
| ## 844 | 1 | 0 | 0 | 8.790421 |
| ## 845 | 0 | 1 | 49 | 8.509363 |
| ## 848 | 0 | 0 | 0 | 9.456497 |
| ## 849 | 0 | 1 | 25 | 9.934550 |
| ## 850 | 0 | 0 | 100 | 8.345455 |
| ## 851 | 0 | 0 | 36 | 9.451009 |
| ## 852 | 0 | 1 | 0 | 8.665786 |
| ## 853 | 0 | 1 | 289 | 8.583168 |
| ## 855 | 0 | 1 | 169 | 9.572271 |
| ## 856 | 0 | 1 | 121 | 9.260178 |
| ## 858 | 0 | 1 | 144 | 9.809232 |
| ## 859 | 0 | 1 | 196 | 9.917440 |
| ## 860 | 0 | 0 | 169 | 9.660843 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 861 | 0 | 0 | 64 | 10.239996 |
| ## 862 | 0 | 1 | 196 | 9.136801 |
| ## 863 | 1 | 0 | 144 | 9.332646 |
| ## 864 | 0 | 1 | 100 | 8.648397 |
| ## 867 | 0 | 1 | 144 | 9.307558 |
| ## 868 | 0 | 1 | 64 | 9.653165 |
| ## 869 | 1 | 0 | 81 | 10.082094 |
| ## 870 | 0 | 0 | 196 | 8.281724 |
| ## 871 | 0 | 0 | 289 | 8.811503 |
| ## 872 | 0 | 0 | 144 | 9.601098 |
| ## 874 | 1 | 0 | 144 | 9.797071 |
| ## 875 | 0 | 1 | 144 | 10.058395 |
| ## 877 | 1 | 0 | 144 | 9.816349 |
| ## 878 | 0 | 0 | 100 | 9.671619 |
| ## 879 | 0 | 0 | 121 | 9.296610 |
| ## 880 | 0 | 0 | 144 | 9.308465 |
| ## 881 | 0 | 1 | 49 | 9.700208 |
| ## 882 | 0 | 0 | 144 | 9.921377 |
| ## 883 | 1 | 0 | 121 | 9.937454 |
| ## 886 | 0 | 0 | 144 | 9.974924 |
| ## 887 | 1 | 0 | 225 | 10.443221 |
| ## 888 | 1 | 0 | 64 | 9.709963 |
| ## 889 | 0 | 0 | 225 | 9.825580 |
| ## 890 | 0 | 1 | 256 | 8.998508 |
| ## 891 | 0 | 0 | 169 | 9.513477 |
| ## 893 | 0 | 1 | 0 | 9.415809 |
| ## 894 | 0 | 1 | 225 | 8.956866 |
| ## 896 | 0 | 1 | 196 | 9.689737 |
| ## 897 | 0 | 1 | 169 | 9.110631 |
| ## 898 | 1 | 0 | 0 | 9.781376 |
| ## 899 | 0 | 1 | 64 | 9.292013 |
| ## 900 | 0 | 1 | 144 | 9.739850 |
| ## 901 | 0 | 1 | 196 | 9.568085 |
| ## 902 | 0 | 1 | 81 | 8.764210 |
| ## 905 | 0 | 0 | 256 | 7.313887 |
| ## 906 | 0 | 0 | 196 | 9.206433 |
| ## 907 | 0 | 0 | 49 | 9.229260 |
| ## 908 | 0 | 1 | 169 | 8.888895 |
| ## 909 | 0 | 0 | 0 | 10.086684 |
| ## 910 | 1 | 0 | 64 | 9.711176 |
| ## 912 | 0 | 1 | 196 | 9.583351 |
| ## 913 | 0 | 1 | 225 | 9.953277 |
| ## 915 | 0 | 1 | 144 | 9.941313 |
| ## 916 | 0 | 1 | 81 | 9.901536 |
| ## 917 | 1 | 0 | 144 | 8.455531 |
| ## 918 | 0 | 0 | 0 | 8.323851 |
| ## 919 | 0 | 0 | 144 | 8.757941 |
| ## 920 | 1 | 0 | 196 | 8.849514 |
| ## 921 | 1 | 0 | 121 | 9.607841 |
| ## 924 | 1 | 0 | 0 | 9.134647 |
| ## 925 | 0 | 0 | 81 | 9.434364 |
| ## 926 | 0 | 1 | 121 | 9.806481 |
| ## 927 | 1 | 0 | 169 | 10.372272 |
| ## 928 | 1 | 0 | 49 | 9.813070 |

| | | | | |
|--------|---|---|-----|-----------|
| ## 929 | 0 | 0 | 169 | 9.570180 |
| ## 931 | 0 | 1 | 121 | 9.299358 |
| ## 932 | 1 | 0 | 196 | 9.239996 |
| ## 934 | 0 | 0 | 225 | 9.372544 |
| ## 935 | 0 | 0 | 0 | 8.665786 |
| ## 936 | 0 | 0 | 169 | 8.767329 |
| ## 937 | 0 | 0 | 169 | 8.016648 |
| ## 938 | 0 | 1 | 121 | 9.324651 |
| ## 939 | 0 | 1 | 289 | 9.615205 |
| ## 940 | 0 | 0 | 169 | 8.943898 |
| ## 943 | 0 | 1 | 225 | 7.800163 |
| ## 944 | 0 | 1 | 0 | 8.732466 |
| ## 945 | 0 | 1 | 121 | 9.253496 |
| ## 946 | 0 | 1 | 100 | 9.019301 |
| ## 947 | 0 | 1 | 100 | 7.313887 |
| ## 948 | 0 | 0 | 144 | 9.042040 |
| ## 950 | 0 | 0 | 0 | 9.392745 |
| ## 951 | 1 | 0 | 0 | 8.366603 |
| ## 953 | 1 | 0 | 100 | 10.152728 |
| ## 954 | 0 | 0 | 100 | 9.757941 |
| ## 955 | 1 | 0 | 81 | 9.903037 |
| ## 956 | 1 | 0 | 169 | 9.783634 |
| ## 957 | 0 | 1 | 0 | 9.391912 |
| ## 958 | 1 | 0 | 169 | 9.960860 |
| ## 959 | 0 | 1 | 64 | 7.890208 |
| ## 962 | 0 | 1 | 169 | 9.454149 |
| ## 963 | 1 | 0 | 81 | 8.853808 |
| ## 964 | 0 | 1 | 100 | 9.163354 |
| ## 965 | 0 | 1 | 169 | 9.775711 |
| ## 966 | 1 | 0 | 144 | 9.398561 |
| ## 967 | 1 | 0 | 64 | 10.147649 |
| ## 969 | 0 | 0 | 121 | 9.908525 |
| ## 970 | 1 | 0 | 100 | 10.049361 |
| ## 972 | 1 | 0 | 121 | 9.379323 |
| ## 973 | 0 | 1 | 36 | 10.374772 |
| ## 974 | 0 | 1 | 64 | 9.639587 |
| ## 975 | 0 | 0 | 169 | 7.313887 |
| ## 976 | 0 | 0 | 0 | 9.219399 |
| ## 977 | 0 | 0 | 225 | 9.147507 |
| ## 978 | 0 | 0 | 0 | 9.299358 |
| ## 981 | 0 | 1 | 81 | 10.208064 |
| ## 982 | 0 | 1 | 100 | 8.556606 |
| ## 983 | 0 | 0 | 144 | 9.802617 |
| ## 984 | 0 | 0 | 169 | 9.600421 |
| ## 985 | 0 | 0 | 100 | 9.679156 |
| ## 986 | 0 | 0 | 169 | 9.597709 |
| ## 988 | 0 | 0 | 0 | 9.938420 |
| ## 989 | 0 | 0 | 81 | 9.794844 |
| ## 991 | 0 | 0 | 196 | 9.767152 |
| ## 992 | 0 | 0 | 169 | 9.208439 |
| ## 993 | 0 | 1 | 256 | 9.867912 |
| ## 994 | 1 | 0 | 100 | 9.250618 |
| ## 995 | 1 | 0 | 121 | 8.556606 |
| ## 996 | 0 | 0 | 0 | 8.556606 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 997 | 0 | 0 | 81 | 9.455715 |
| ## 1000 | 1 | 0 | 121 | 9.637632 |
| ## 1001 | 0 | 1 | 81 | 9.481969 |
| ## 1002 | 0 | 1 | 0 | 9.020511 |
| ## 1003 | 0 | 1 | 0 | 8.648397 |
| ## 1004 | 1 | 0 | 81 | 9.172742 |
| ## 1005 | 0 | 1 | 36 | 9.552582 |
| ## 1007 | 1 | 0 | 169 | 9.322865 |
| ## 1008 | 0 | 1 | 169 | 8.881975 |
| ## 1010 | 1 | 0 | 196 | 8.240385 |
| ## 1011 | 1 | 0 | 36 | 10.266080 |
| ## 1012 | 0 | 0 | 36 | 8.895767 |
| ## 1013 | 0 | 1 | 0 | 7.313887 |
| ## 1014 | 0 | 0 | 144 | 8.687948 |
| ## 1015 | 0 | 0 | 81 | 9.827740 |
| ## 1016 | 0 | 1 | 0 | 7.313887 |
| ## 1019 | 0 | 0 | 0 | 10.137808 |
| ## 1020 | 1 | 0 | 0 | 9.412546 |
| ## 1021 | 0 | 1 | 144 | 8.779711 |
| ## 1022 | 1 | 0 | 100 | 10.156617 |
| ## 1023 | 1 | 0 | 0 | 8.594339 |
| ## 1024 | 1 | 0 | 36 | 10.196568 |
| ## 1026 | 1 | 0 | 144 | 9.439943 |
| ## 1027 | 0 | 1 | 100 | 9.285541 |
| ## 1029 | 0 | 1 | 144 | 8.951699 |
| ## 1030 | 0 | 0 | 64 | 9.020511 |
| ## 1031 | 1 | 0 | 144 | 8.812992 |
| ## 1032 | 1 | 0 | 100 | 8.699681 |
| ## 1033 | 0 | 0 | 36 | 9.203416 |
| ## 1034 | 0 | 1 | 81 | 9.856972 |
| ## 1035 | 0 | 0 | 49 | 8.366603 |
| ## 1038 | 0 | 1 | 144 | 8.296796 |
| ## 1039 | 1 | 0 | 100 | 8.655389 |
| ## 1040 | 1 | 0 | 144 | 9.372544 |
| ## 1041 | 0 | 1 | 100 | 9.136801 |
| ## 1042 | 0 | 0 | 121 | 8.979794 |
| ## 1043 | 0 | 0 | 0 | 9.255409 |
| ## 1045 | 0 | 1 | 49 | 8.732466 |
| ## 1046 | 0 | 0 | 144 | 9.133567 |
| ## 1048 | 0 | 0 | 100 | 10.551664 |
| ## 1049 | 0 | 0 | 144 | 9.952801 |
| ## 1050 | 0 | 0 | 225 | 9.354527 |
| ## 1051 | 1 | 0 | 100 | 10.293534 |
| ## 1052 | 1 | 0 | 100 | 8.644883 |
| ## 1053 | 0 | 1 | 0 | 9.012011 |
| ## 1054 | 1 | 0 | 225 | 9.592946 |
| ## 1057 | 0 | 1 | 64 | 8.810012 |
| ## 1058 | 1 | 0 | 49 | 10.269553 |
| ## 1059 | 1 | 0 | 256 | 9.986955 |
| ## 1060 | 0 | 0 | 64 | 10.353958 |
| ## 1061 | 1 | 0 | 169 | 9.244838 |
| ## 1062 | 0 | 0 | 144 | 9.042040 |
| ## 1064 | 0 | 0 | 144 | 8.969669 |
| ## 1065 | 1 | 0 | 0 | 9.565284 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1067 | 1 | 0 | 169 | 10.231748 |
| ## 1068 | 0 | 1 | 144 | 9.992460 |
| ## 1069 | 1 | 0 | 196 | 9.876168 |
| ## 1070 | 1 | 0 | 81 | 9.276222 |
| ## 1071 | 0 | 0 | 100 | 8.628913 |
| ## 1072 | 0 | 0 | 100 | 8.764210 |
| ## 1073 | 0 | 0 | 121 | 9.487290 |
| ## 1076 | 0 | 1 | 100 | 9.159152 |
| ## 1077 | 0 | 0 | 100 | 8.537192 |
| ## 1078 | 0 | 1 | 169 | 10.050657 |
| ## 1079 | 0 | 0 | 100 | 10.149996 |
| ## 1080 | 0 | 1 | 0 | 9.752141 |
| ## 1081 | 0 | 1 | 196 | 8.476580 |
| ## 1083 | 0 | 1 | 81 | 10.138994 |
| ## 1084 | 1 | 0 | 100 | 9.228279 |
| ## 1086 | 0 | 1 | 0 | 9.454149 |
| ## 1087 | 0 | 1 | 64 | 9.265870 |
| ## 1088 | 0 | 0 | 169 | 9.647369 |
| ## 1089 | 1 | 0 | 100 | 9.880270 |
| ## 1090 | 1 | 0 | 100 | 9.529594 |
| ## 1091 | 1 | 0 | 100 | 9.032529 |
| ## 1092 | 0 | 0 | 121 | 10.097449 |
| ## 1095 | 0 | 0 | 169 | 7.804251 |
| ## 1096 | 0 | 0 | 100 | 10.186823 |
| ## 1097 | 0 | 0 | 225 | 10.113384 |
| ## 1098 | 0 | 0 | 169 | 10.470816 |
| ## 1099 | 0 | 0 | 64 | 9.742203 |
| ## 1100 | 1 | 0 | 289 | 9.838469 |
| ## 1102 | 0 | 0 | 81 | 9.756784 |
| ## 1103 | 0 | 0 | 225 | 9.702656 |
| ## 1105 | 0 | 1 | 144 | 9.127067 |
| ## 1106 | 0 | 1 | 196 | 9.038484 |
| ## 1107 | 0 | 0 | 0 | 10.067772 |
| ## 1108 | 0 | 0 | 81 | 10.136225 |
| ## 1109 | 1 | 0 | 16 | 9.043223 |
| ## 1110 | 0 | 0 | 100 | 8.779711 |
| ## 1111 | 1 | 0 | 100 | 9.086024 |
| ## 1114 | 0 | 1 | 121 | 9.079206 |
| ## 1115 | 0 | 1 | 144 | 9.063116 |
| ## 1116 | 0 | 0 | 144 | 10.477879 |
| ## 1117 | 1 | 0 | 64 | 7.313887 |
| ## 1118 | 0 | 0 | 121 | 9.826120 |
| ## 1119 | 0 | 1 | 81 | 8.623533 |
| ## 1121 | 0 | 1 | 81 | 9.451009 |
| ## 1122 | 1 | 0 | 81 | 8.614501 |
| ## 1124 | 0 | 0 | 81 | 8.630700 |
| ## 1125 | 0 | 1 | 100 | 9.296610 |
| ## 1126 | 0 | 1 | 144 | 9.410911 |
| ## 1127 | 0 | 1 | 121 | 9.206433 |
| ## 1128 | 0 | 0 | 64 | 9.774005 |
| ## 1129 | 0 | 0 | 100 | 9.460398 |
| ## 1130 | 0 | 0 | 81 | 10.062668 |
| ## 1133 | 0 | 1 | 81 | 8.548886 |
| ## 1134 | 0 | 1 | 4 | 9.374243 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1135 | 0 | 1 | 0 | 9.322865 |
| ## 1136 | 0 | 0 | 144 | 9.679781 |
| ## 1137 | 1 | 0 | 144 | 10.386870 |
| ## 1138 | 1 | 0 | 64 | 8.764210 |
| ## 1140 | 0 | 0 | 121 | 8.794976 |
| ## 1141 | 0 | 1 | 0 | 9.145375 |
| ## 1143 | 1 | 0 | 81 | 9.976320 |
| ## 1144 | 0 | 1 | 36 | 9.789254 |
| ## 1145 | 0 | 0 | 144 | 9.434364 |
| ## 1146 | 0 | 0 | 144 | 10.121458 |
| ## 1147 | 0 | 1 | 81 | 10.009243 |
| ## 1148 | 0 | 1 | 100 | 9.705098 |
| ## 1149 | 1 | 0 | 169 | 9.708142 |
| ## 1152 | 0 | 1 | 100 | 9.523763 |
| ## 1153 | 0 | 1 | 196 | 7.313887 |
| ## 1154 | 0 | 0 | 169 | 7.313887 |
| ## 1155 | 1 | 0 | 169 | 8.771990 |
| ## 1156 | 0 | 0 | 0 | 8.732466 |
| ## 1157 | 0 | 1 | 121 | 9.431161 |
| ## 1159 | 0 | 0 | 0 | 8.950403 |
| ## 1160 | 0 | 1 | 0 | 9.165448 |
| ## 1162 | 0 | 0 | 169 | 9.196343 |
| ## 1163 | 0 | 1 | 144 | 9.527411 |
| ## 1164 | 0 | 0 | 49 | 9.704488 |
| ## 1165 | 1 | 0 | 144 | 10.265732 |
| ## 1166 | 0 | 1 | 169 | 9.633056 |
| ## 1167 | 0 | 1 | 100 | 8.625330 |
| ## 1168 | 1 | 0 | 49 | 10.132255 |
| ## 1171 | 1 | 0 | 121 | 10.112978 |
| ## 1172 | 1 | 0 | 196 | 8.366603 |
| ## 1173 | 0 | 0 | 81 | 10.186823 |
| ## 1174 | 0 | 1 | 225 | 9.827200 |
| ## 1175 | 0 | 0 | 0 | 8.556606 |
| ## 1176 | 0 | 0 | 169 | 10.331725 |
| ## 1178 | 0 | 0 | 196 | 9.783634 |
| ## 1179 | 1 | 0 | 100 | 9.419060 |
| ## 1181 | 0 | 0 | 25 | 9.853825 |
| ## 1182 | 1 | 0 | 100 | 10.451927 |
| ## 1183 | 0 | 1 | 121 | 10.033682 |
| ## 1184 | 0 | 1 | 144 | 9.980495 |
| ## 1185 | 1 | 0 | 100 | 9.940350 |
| ## 1186 | 0 | 0 | 100 | 9.594309 |
| ## 1187 | 0 | 0 | 169 | 8.917445 |
| ## 1190 | 0 | 1 | 0 | 9.300272 |
| ## 1191 | 0 | 1 | 121 | 9.060796 |
| ## 1192 | 0 | 1 | 121 | 9.157045 |
| ## 1193 | 1 | 0 | 100 | 9.909519 |
| ## 1194 | 0 | 0 | 81 | 8.648397 |
| ## 1195 | 0 | 0 | 144 | 9.490318 |
| ## 1197 | 0 | 1 | 169 | 9.348449 |
| ## 1198 | 0 | 0 | 0 | 7.438972 |
| ## 1200 | 1 | 0 | 81 | 10.004283 |
| ## 1201 | 0 | 0 | 169 | 8.706325 |
| ## 1202 | 0 | 0 | 225 | 9.190240 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1203 | 0 | 0 | 121 | 10.176982 |
| ## 1204 | 0 | 1 | 81 | 10.253123 |
| ## 1205 | 0 | 0 | 36 | 9.550449 |
| ## 1206 | 0 | 1 | 49 | 9.357984 |
| ## 1209 | 0 | 1 | 64 | 8.738896 |
| ## 1210 | 0 | 1 | 0 | 8.867991 |
| ## 1211 | 0 | 1 | 0 | 7.313887 |
| ## 1212 | 0 | 0 | 100 | 9.806481 |
| ## 1213 | 1 | 0 | 81 | 9.109525 |
| ## 1214 | 0 | 0 | 49 | 8.981053 |
| ## 1216 | 1 | 0 | 0 | 9.004668 |
| ## 1217 | 0 | 0 | 100 | 10.223068 |
| ## 1219 | 0 | 1 | 196 | 9.214432 |
| ## 1220 | 0 | 0 | 169 | 9.052633 |
| ## 1221 | 0 | 1 | 144 | 9.127067 |
| ## 1222 | 0 | 1 | 361 | 9.022926 |
| ## 1223 | 1 | 0 | 144 | 9.419872 |
| ## 1224 | 1 | 0 | 0 | 8.881975 |
| ## 1225 | 0 | 1 | 144 | 8.434029 |
| ## 1228 | 1 | 0 | 144 | 7.983099 |
| ## 1229 | 1 | 0 | 81 | 9.830971 |
| ## 1230 | 0 | 1 | 121 | 8.517393 |
| ## 1231 | 1 | 0 | 121 | 10.098273 |
| ## 1232 | 0 | 0 | 196 | 10.675469 |
| ## 1233 | 1 | 0 | 144 | 9.413363 |
| ## 1235 | 0 | 1 | 169 | 9.500095 |
| ## 1236 | 0 | 1 | 196 | 9.067739 |
| ## 1238 | 0 | 1 | 225 | 9.098403 |
| ## 1239 | 0 | 0 | 169 | 9.840068 |
| ## 1240 | 0 | 0 | 289 | 9.932124 |
| ## 1241 | 0 | 0 | 169 | 10.066924 |
| ## 1242 | 1 | 0 | 121 | 8.556606 |
| ## 1243 | 1 | 0 | 0 | 9.217415 |
| ## 1244 | 0 | 1 | 121 | 9.391912 |
| ## 1247 | 0 | 1 | 196 | 9.639587 |
| ## 1248 | 0 | 0 | 121 | 8.371242 |
| ## 1249 | 0 | 1 | 169 | 8.853808 |
| ## 1250 | 0 | 0 | 100 | 8.630700 |
| ## 1251 | 0 | 1 | 64 | 9.056140 |
| ## 1252 | 0 | 0 | 0 | 9.655731 |
| ## 1254 | 1 | 0 | 121 | 9.528139 |
| ## 1255 | 1 | 0 | 100 | 8.934719 |
| ## 1257 | 0 | 1 | 169 | 9.408453 |
| ## 1258 | 0 | 1 | 64 | 9.178953 |
| ## 1259 | 0 | 0 | 100 | 9.859065 |
| ## 1260 | 1 | 0 | 196 | 9.461177 |
| ## 1261 | 0 | 1 | 121 | 8.824825 |
| ## 1262 | 0 | 1 | 0 | 8.764210 |
| ## 1263 | 1 | 0 | 121 | 7.313887 |
| ## 1266 | 1 | 0 | 0 | 8.918784 |
| ## 1267 | 1 | 0 | 0 | 7.313887 |
| ## 1268 | 1 | 0 | 49 | 9.617870 |
| ## 1269 | 1 | 0 | 0 | 8.699681 |
| ## 1270 | 0 | 1 | 196 | 8.434029 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1271 | 1 | 0 | 49 | 9.497097 |
| ## 1273 | 0 | 0 | 0 | 9.121618 |
| ## 1274 | 0 | 0 | 49 | 8.268988 |
| ## 1276 | 0 | 0 | 196 | 9.533221 |
| ## 1277 | 0 | 0 | 9 | 8.699681 |
| ## 1278 | 1 | 0 | 196 | 9.374243 |
| ## 1279 | 0 | 1 | 0 | 8.556606 |
| ## 1280 | 0 | 0 | 169 | 10.315630 |
| ## 1281 | 0 | 0 | 196 | 9.282754 |
| ## 1282 | 0 | 1 | 0 | 8.906664 |
| ## 1285 | 0 | 0 | 144 | 9.781376 |
| ## 1286 | 0 | 1 | 49 | 8.716208 |
| ## 1287 | 0 | 1 | 0 | 9.802064 |
| ## 1288 | 0 | 1 | 0 | 9.483492 |
| ## 1289 | 0 | 1 | 121 | 9.291091 |
| ## 1290 | 0 | 1 | 196 | 9.005896 |
| ## 1292 | 1 | 0 | 0 | 9.609184 |
| ## 1293 | 1 | 0 | 0 | 9.084891 |
| ## 1295 | 1 | 0 | 121 | 9.841133 |
| ## 1296 | 1 | 0 | 196 | 10.445259 |
| ## 1297 | 0 | 1 | 196 | 9.033723 |
| ## 1298 | 0 | 1 | 100 | 9.344959 |
| ## 1299 | 0 | 0 | 144 | 8.936035 |
| ## 1300 | 0 | 0 | 289 | 8.229778 |
| ## 1301 | 0 | 0 | 196 | 9.537556 |
| ## 1304 | 1 | 0 | 0 | 8.250881 |
| ## 1305 | 0 | 1 | 144 | 8.699681 |
| ## 1306 | 1 | 0 | 144 | 10.705287 |
| ## 1307 | 0 | 0 | 196 | 9.515690 |
| ## 1308 | 0 | 1 | 81 | 9.254453 |
| ## 1309 | 0 | 1 | 0 | 10.187952 |
| ## 1311 | 1 | 0 | 36 | 9.404343 |
| ## 1312 | 0 | 1 | 100 | 9.576441 |
| ## 1314 | 0 | 0 | 121 | 9.007122 |
| ## 1315 | 0 | 1 | 0 | 9.620528 |
| ## 1316 | 1 | 0 | 144 | 9.357121 |
| ## 1317 | 0 | 1 | 196 | 9.351927 |
| ## 1318 | 0 | 0 | 0 | 9.071193 |
| ## 1319 | 1 | 0 | 121 | 9.216422 |
| ## 1320 | 0 | 0 | 225 | 8.699681 |
| ## 1323 | 0 | 0 | 121 | 8.594339 |
| ## 1324 | 1 | 0 | 169 | 9.703267 |
| ## 1325 | 0 | 1 | 81 | 10.305647 |
| ## 1326 | 1 | 0 | 144 | 8.883363 |
| ## 1327 | 0 | 1 | 144 | 8.682877 |
| ## 1328 | 1 | 0 | 49 | 10.182671 |
| ## 1330 | 0 | 1 | 196 | 9.242904 |
| ## 1331 | 0 | 1 | 225 | 9.783070 |
| ## 1333 | 0 | 1 | 81 | 9.619200 |
| ## 1334 | 0 | 1 | 100 | 8.197263 |
| ## 1335 | 0 | 0 | 0 | 7.919720 |
| ## 1336 | 0 | 1 | 169 | 9.406811 |
| ## 1337 | 1 | 0 | 0 | 7.313887 |
| ## 1338 | 1 | 0 | 100 | 9.970258 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1339 | 0 | 0 | 169 | 10.166659 |
| ## 1342 | 1 | 0 | 121 | 9.640888 |
| ## 1343 | 1 | 0 | 49 | 9.079206 |
| ## 1344 | 1 | 0 | 100 | 10.649488 |
| ## 1345 | 0 | 0 | 81 | 10.057538 |
| ## 1346 | 0 | 1 | 100 | 9.295692 |
| ## 1347 | 1 | 0 | 81 | 9.459619 |
| ## 1349 | 0 | 1 | 64 | 9.052633 |
| ## 1350 | 1 | 0 | 169 | 9.828818 |
| ## 1352 | 0 | 0 | 81 | 9.150697 |
| ## 1353 | 0 | 1 | 144 | 10.083765 |
| ## 1354 | 1 | 0 | 196 | 9.814711 |
| ## 1355 | 0 | 1 | 0 | 8.922792 |
| ## 1356 | 1 | 0 | 256 | 7.313887 |
| ## 1357 | 0 | 1 | 225 | 9.186150 |
| ## 1358 | 0 | 1 | 100 | 9.125980 |
| ## 1361 | 0 | 0 | 121 | 9.813070 |
| ## 1362 | 0 | 1 | 225 | 10.130264 |
| ## 1363 | 0 | 0 | 0 | 9.185125 |
| ## 1364 | 0 | 0 | 64 | 9.543306 |
| ## 1365 | 1 | 0 | 225 | 9.324651 |
| ## 1366 | 1 | 0 | 100 | 8.117014 |
| ## 1368 | 0 | 0 | 256 | 10.697633 |
| ## 1369 | 0 | 0 | 144 | 8.722743 |
| ## 1371 | 1 | 0 | 81 | 9.872048 |
| ## 1372 | 0 | 0 | 25 | 9.804275 |
| ## 1373 | 1 | 0 | 144 | 9.772296 |
| ## 1374 | 0 | 1 | 0 | 10.018199 |
| ## 1375 | 0 | 1 | 121 | 9.846970 |
| ## 1376 | 0 | 0 | 169 | 9.884356 |
| ## 1377 | 0 | 0 | 196 | 8.958154 |
| ## 1380 | 0 | 0 | 169 | 9.536113 |
| ## 1381 | 1 | 0 | 121 | 9.227296 |
| ## 1382 | 1 | 0 | 144 | 9.729789 |
| ## 1383 | 0 | 0 | 169 | 9.875654 |
| ## 1384 | 0 | 1 | 256 | 9.474319 |
| ## 1385 | 0 | 1 | 144 | 9.551160 |
| ## 1387 | 0 | 0 | 81 | 9.841133 |
| ## 1388 | 1 | 0 | 64 | 10.155452 |
| ## 1390 | 0 | 1 | 100 | 9.864799 |
| ## 1391 | 0 | 0 | 144 | 9.648660 |
| ## 1392 | 0 | 0 | 144 | 9.409273 |
| ## 1393 | 0 | 0 | 36 | 9.728598 |
| ## 1394 | 1 | 0 | 169 | 10.189831 |
| ## 1395 | 0 | 0 | 169 | 9.542589 |
| ## 1396 | 0 | 0 | 169 | 9.983730 |
| ## 1399 | 0 | 1 | 0 | 7.313887 |
| ## 1400 | 1 | 0 | 121 | 9.469700 |
| ## 1401 | 1 | 0 | 196 | 9.561772 |
| ## 1402 | 0 | 1 | 144 | 10.694918 |
| ## 1403 | 0 | 0 | 81 | 10.059679 |
| ## 1404 | 0 | 0 | 196 | 9.640888 |
| ## 1406 | 0 | 1 | 144 | 9.182044 |
| ## 1407 | 1 | 0 | 196 | 9.513477 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1409 | 0 | 0 | 144 | 7.635787 |
| ## 1410 | 0 | 0 | 225 | 9.421492 |
| ## 1411 | 1 | 0 | 36 | 8.748464 |
| ## 1412 | 1 | 0 | 169 | 8.210940 |
| ## 1413 | 0 | 0 | 100 | 9.511259 |
| ## 1414 | 0 | 0 | 100 | 10.001567 |
| ## 1415 | 1 | 0 | 144 | 10.112978 |
| ## 1418 | 0 | 0 | 169 | 8.699681 |
| ## 1419 | 0 | 1 | 121 | 8.770439 |
| ## 1420 | 0 | 0 | 121 | 8.794976 |
| ## 1421 | 0 | 0 | 64 | 9.434364 |
| ## 1422 | 0 | 0 | 100 | 8.959440 |
| ## 1423 | 0 | 0 | 81 | 9.364862 |
| ## 1425 | 0 | 1 | 144 | 9.988793 |
| ## 1426 | 0 | 1 | 0 | 9.640238 |
| ## 1428 | 0 | 0 | 169 | 9.225328 |
| ## 1429 | 0 | 0 | 81 | 9.010791 |
| ## 1430 | 1 | 0 | 100 | 10.035875 |
| ## 1431 | 1 | 0 | 121 | 8.748464 |
| ## 1432 | 0 | 0 | 144 | 10.419331 |
| ## 1433 | 0 | 1 | 144 | 10.086267 |
| ## 1434 | 0 | 1 | 0 | 8.867991 |
| ## 1437 | 0 | 0 | 196 | 9.303011 |
| ## 1438 | 0 | 1 | 0 | 10.599157 |
| ## 1439 | 0 | 1 | 81 | 9.910513 |
| ## 1440 | 1 | 0 | 100 | 8.856661 |
| ## 1441 | 0 | 0 | 144 | 9.549024 |
| ## 1442 | 0 | 0 | 169 | 8.651899 |
| ## 1444 | 0 | 1 | 196 | 8.979794 |
| ## 1445 | 0 | 0 | 289 | 9.887409 |
| ## 1447 | 0 | 0 | 144 | 10.006089 |
| ## 1448 | 0 | 1 | 100 | 9.173780 |
| ## 1449 | 0 | 1 | 256 | 8.612685 |
| ## 1450 | 0 | 0 | 196 | 9.969322 |
| ## 1451 | 1 | 0 | 121 | 9.198369 |
| ## 1452 | 1 | 0 | 196 | 9.836332 |
| ## 1453 | 0 | 1 | 100 | 8.839422 |
| ## 1456 | 0 | 1 | 100 | 10.019536 |
| ## 1457 | 0 | 1 | 169 | 10.017753 |
| ## 1458 | 0 | 1 | 121 | 10.058823 |
| ## 1459 | 0 | 1 | 0 | 9.541872 |
| ## 1460 | 0 | 1 | 100 | 9.144307 |
| ## 1461 | 1 | 0 | 81 | 9.757363 |
| ## 1463 | 0 | 0 | 0 | 9.314790 |
| ## 1464 | 0 | 0 | 121 | 8.748464 |
| ## 1466 | 1 | 0 | 169 | 9.283684 |
| ## 1467 | 0 | 1 | 225 | 9.423110 |
| ## 1468 | 0 | 1 | 144 | 9.723822 |
| ## 1469 | 0 | 1 | 100 | 9.043223 |
| ## 1470 | 0 | 0 | 196 | 8.936035 |
| ## 1471 | 1 | 0 | 289 | 9.792053 |
| ## 1472 | 0 | 0 | 144 | 8.289288 |
| ## 1475 | 0 | 0 | 169 | 10.247113 |
| ## 1476 | 0 | 0 | 81 | 8.665786 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1477 | 1 | 0 | 144 | 10.040245 |
| ## 1478 | 0 | 1 | 36 | 9.895506 |
| ## 1479 | 0 | 0 | 81 | 9.703877 |
| ## 1480 | 1 | 0 | 144 | 10.321902 |
| ## 1482 | 0 | 0 | 81 | 9.617205 |
| ## 1483 | 0 | 1 | 121 | 9.955653 |
| ## 1485 | 0 | 1 | 169 | 9.128154 |
| ## 1486 | 0 | 0 | 16 | 10.018645 |
| ## 1487 | 1 | 0 | 144 | 10.062668 |
| ## 1488 | 0 | 0 | 196 | 10.200662 |
| ## 1489 | 0 | 0 | 256 | 9.251578 |
| ## 1490 | 0 | 1 | 169 | 8.998508 |
| ## 1491 | 0 | 1 | 169 | 9.872564 |
| ## 1494 | 1 | 0 | 225 | 10.122663 |
| ## 1495 | 0 | 0 | 121 | 8.748464 |
| ## 1496 | 0 | 1 | 144 | 9.570180 |
| ## 1497 | 1 | 0 | 64 | 8.952993 |
| ## 1498 | 0 | 0 | 81 | 9.934550 |
| ## 1499 | 0 | 0 | 36 | 9.262079 |
| ## 1501 | 0 | 0 | 196 | 9.294773 |
| ## 1502 | 1 | 0 | 100 | 9.517163 |
| ## 1504 | 1 | 0 | 49 | 9.224342 |
| ## 1505 | 0 | 0 | 196 | 8.648397 |
| ## 1506 | 0 | 1 | 121 | 9.032529 |
| ## 1507 | 0 | 1 | 0 | 8.682877 |
| ## 1508 | 0 | 0 | 64 | 8.556606 |
| ## 1509 | 0 | 0 | 256 | 9.147507 |
| ## 1510 | 0 | 0 | 121 | 9.929204 |
| ## 1513 | 0 | 1 | 144 | 8.476580 |
| ## 1514 | 0 | 1 | 121 | 9.354527 |
| ## 1515 | 0 | 0 | 81 | 9.790375 |
| ## 1516 | 0 | 1 | 169 | 10.057967 |
| ## 1517 | 0 | 1 | 0 | 9.884356 |
| ## 1518 | 0 | 1 | 144 | 10.355868 |
| ## 1520 | 1 | 0 | 81 | 9.073489 |
| ## 1521 | 0 | 1 | 169 | 8.997271 |
| ## 1523 | 1 | 0 | 81 | 7.937732 |
| ## 1524 | 0 | 1 | 144 | 9.615205 |
| ## 1525 | 0 | 0 | 49 | 8.732466 |
| ## 1526 | 0 | 0 | 169 | 9.167537 |
| ## 1527 | 0 | 1 | 169 | 9.668461 |
| ## 1528 | 0 | 0 | 196 | 9.665928 |
| ## 1529 | 0 | 1 | 0 | 8.575651 |
| ## 1532 | 1 | 0 | 49 | 9.928717 |
| ## 1533 | 0 | 1 | 169 | 9.079206 |
| ## 1534 | 0 | 0 | 144 | 8.852379 |
| ## 1535 | 0 | 1 | 225 | 8.958154 |
| ## 1536 | 0 | 0 | 100 | 9.450223 |
| ## 1537 | 0 | 1 | 81 | 10.113789 |
| ## 1539 | 0 | 1 | 100 | 10.041117 |
| ## 1540 | 0 | 1 | 81 | 9.037296 |
| ## 1542 | 0 | 1 | 81 | 9.615205 |
| ## 1543 | 0 | 1 | 0 | 8.497195 |
| ## 1544 | 1 | 0 | 81 | 9.773436 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1545 | 0 | 0 | 169 | 9.003439 |
| ## 1546 | 0 | 0 | 49 | 9.842729 |
| ## 1547 | 1 | 0 | 81 | 8.716208 |
| ## 1548 | 0 | 1 | 36 | 9.402695 |
| ## 1551 | 1 | 0 | 100 | 9.842729 |
| ## 1552 | 1 | 0 | 169 | 10.065649 |
| ## 1553 | 1 | 0 | 81 | 10.427062 |
| ## 1554 | 0 | 0 | 81 | 9.100637 |
| ## 1555 | 0 | 0 | 196 | 9.531046 |
| ## 1556 | 0 | 1 | 121 | 9.503085 |
| ## 1558 | 1 | 0 | 196 | 9.089415 |
| ## 1559 | 0 | 0 | 100 | 10.341775 |
| ## 1561 | 1 | 0 | 64 | 9.569482 |
| ## 1562 | 0 | 1 | 25 | 8.240385 |
| ## 1563 | 0 | 1 | 121 | 8.612685 |
| ## 1564 | 0 | 0 | 144 | 8.556606 |
| ## 1565 | 1 | 0 | 196 | 9.694062 |
| ## 1566 | 0 | 1 | 0 | 9.369990 |
| ## 1567 | 0 | 0 | 144 | 10.550617 |
| ## 1570 | 0 | 0 | 196 | 9.263976 |
| ## 1571 | 0 | 0 | 100 | 9.302099 |
| ## 1572 | 0 | 0 | 196 | 9.930178 |
| ## 1573 | 1 | 0 | 100 | 9.320181 |
| ## 1574 | 0 | 1 | 121 | 9.243872 |
| ## 1575 | 0 | 0 | 144 | 9.853825 |
| ## 1577 | 0 | 1 | 0 | 10.367567 |
| ## 1578 | 0 | 1 | 169 | 8.945202 |
| ## 1580 | 0 | 1 | 100 | 9.784197 |
| ## 1581 | 0 | 0 | 0 | 8.748464 |
| ## 1582 | 1 | 0 | 225 | 8.998508 |
| ## 1583 | 0 | 1 | 121 | 9.195328 |
| ## 1584 | 0 | 1 | 144 | 9.292934 |
| ## 1585 | 1 | 0 | 121 | 10.163965 |
| ## 1586 | 0 | 0 | 144 | 9.633711 |
| ## 1589 | 0 | 1 | 144 | 9.864799 |
| ## 1590 | 0 | 0 | 169 | 10.167427 |
| ## 1591 | 0 | 0 | 121 | 10.246758 |
| ## 1592 | 0 | 1 | 225 | 8.497195 |
| ## 1593 | 1 | 0 | 121 | 9.288319 |
| ## 1594 | 0 | 0 | 64 | 10.084600 |
| ## 1596 | 0 | 0 | 169 | 9.306650 |
| ## 1597 | 0 | 1 | 100 | 9.019301 |
| ## 1599 | 0 | 1 | 49 | 9.932124 |
| ## 1600 | 0 | 1 | 0 | 9.000976 |
| ## 1601 | 0 | 0 | 169 | 9.112838 |
| ## 1602 | 0 | 0 | 121 | 8.773539 |
| ## 1603 | 0 | 1 | 81 | 10.460844 |
| ## 1604 | 0 | 1 | 121 | 9.752723 |
| ## 1605 | 1 | 0 | 81 | 10.186069 |
| ## 1608 | 0 | 1 | 144 | 9.020511 |
| ## 1609 | 0 | 1 | 144 | 9.858542 |
| ## 1610 | 0 | 0 | 144 | 9.594990 |
| ## 1611 | 0 | 0 | 196 | 9.630431 |
| ## 1612 | 0 | 0 | 81 | 9.030137 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1613 | 0 | 1 | 121 | 9.389407 |
| ## 1615 | 0 | 1 | 100 | 9.821789 |
| ## 1616 | 0 | 1 | 144 | 9.220390 |
| ## 1618 | 1 | 0 | 0 | 8.497195 |
| ## 1619 | 0 | 0 | 169 | 8.938663 |
| ## 1620 | 0 | 0 | 169 | 9.396073 |
| ## 1621 | 0 | 0 | 169 | 10.041552 |
| ## 1622 | 0 | 0 | 100 | 9.096163 |
| ## 1623 | 1 | 0 | 121 | 10.675700 |
| ## 1624 | 0 | 0 | 169 | 9.521568 |
| ## 1627 | 0 | 1 | 121 | 9.154933 |
| ## 1628 | 1 | 0 | 196 | 9.290168 |
| ## 1629 | 1 | 0 | 144 | 8.464003 |
| ## 1630 | 0 | 0 | 0 | 9.916453 |
| ## 1631 | 0 | 0 | 64 | 9.158099 |
| ## 1632 | 1 | 0 | 121 | 9.853825 |
| ## 1634 | 0 | 1 | 256 | 8.893023 |
| ## 1635 | 0 | 0 | 16 | 9.622516 |
| ## 1637 | 1 | 0 | 49 | 9.609854 |
| ## 1638 | 1 | 0 | 196 | 9.766006 |
| ## 1639 | 0 | 1 | 121 | 9.835797 |
| ## 1640 | 1 | 0 | 169 | 8.618124 |
| ## 1641 | 0 | 0 | 100 | 8.579417 |
| ## 1642 | 0 | 0 | 121 | 8.634265 |
| ## 1643 | 0 | 0 | 49 | 9.078065 |
| ## 1646 | 1 | 0 | 144 | 9.815803 |
| ## 1647 | 0 | 0 | 100 | 8.846641 |
| ## 1648 | 0 | 1 | 81 | 9.777414 |
| ## 1649 | 1 | 0 | 169 | 9.498597 |
| ## 1650 | 0 | 1 | 144 | 9.509037 |
| ## 1651 | 1 | 0 | 144 | 9.750395 |
| ## 1653 | 0 | 0 | 0 | 9.603125 |
| ## 1654 | 1 | 0 | 144 | 9.386895 |
| ## 1656 | 0 | 0 | 0 | 8.366603 |
| ## 1657 | 0 | 0 | 100 | 10.069468 |
| ## 1658 | 0 | 1 | 0 | 8.910721 |
| ## 1659 | 0 | 0 | 64 | 9.723224 |
| ## 1660 | 0 | 0 | 196 | 9.418248 |
| ## 1661 | 0 | 1 | 121 | 8.764210 |
| ## 1662 | 1 | 0 | 144 | 8.987322 |
| ## 1665 | 0 | 1 | 289 | 10.298936 |
| ## 1666 | 0 | 0 | 256 | 10.185692 |
| ## 1667 | 1 | 0 | 64 | 9.238053 |
| ## 1668 | 1 | 0 | 196 | 8.883363 |
| ## 1669 | 0 | 1 | 225 | 8.898502 |
| ## 1670 | 1 | 0 | 144 | 10.115004 |
| ## 1672 | 0 | 1 | 81 | 10.048064 |
| ## 1673 | 1 | 0 | 225 | 9.802617 |
| ## 1675 | 0 | 1 | 0 | 9.721426 |
| ## 1676 | 1 | 0 | 144 | 10.048497 |
| ## 1677 | 0 | 0 | 289 | 9.162305 |
| ## 1678 | 0 | 0 | 121 | 10.040245 |
| ## 1679 | 0 | 1 | 121 | 9.705707 |
| ## 1680 | 0 | 1 | 169 | 9.756784 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1681 | 0 | 1 | 256 | 9.546884 |
| ## 1684 | 1 | 0 | 64 | 10.054533 |
| ## 1685 | 0 | 1 | 225 | 9.144307 |
| ## 1686 | 0 | 0 | 49 | 7.313887 |
| ## 1687 | 0 | 1 | 64 | 9.450223 |
| ## 1688 | 0 | 0 | 49 | 10.374147 |
| ## 1689 | 0 | 0 | 196 | 9.515690 |
| ## 1691 | 1 | 0 | 169 | 8.607217 |
| ## 1692 | 0 | 1 | 100 | 9.752141 |
| ## 1694 | 0 | 0 | 36 | 9.925787 |
| ## 1695 | 1 | 0 | 196 | 9.825039 |
| ## 1696 | 0 | 0 | 0 | 7.313887 |
| ## 1697 | 1 | 0 | 144 | 8.925454 |
| ## 1698 | 1 | 0 | 169 | 9.801510 |
| ## 1699 | 0 | 1 | 144 | 10.180020 |
| ## 1700 | 1 | 0 | 0 | 7.313887 |
| ## 1703 | 0 | 0 | 49 | 9.025335 |
| ## 1704 | 0 | 0 | 64 | 9.193296 |
| ## 1705 | 1 | 0 | 81 | 9.405167 |
| ## 1706 | 1 | 0 | 169 | 10.093322 |
| ## 1707 | 0 | 0 | 256 | 8.811503 |
| ## 1708 | 0 | 0 | 121 | 10.044162 |
| ## 1710 | 0 | 0 | 361 | 10.177742 |
| ## 1711 | 0 | 0 | 121 | 9.241936 |
| ## 1713 | 0 | 1 | 0 | 8.691315 |
| ## 1714 | 0 | 0 | 121 | 9.325542 |
| ## 1715 | 0 | 0 | 121 | 10.117429 |
| ## 1716 | 0 | 0 | 81 | 7.313887 |
| ## 1717 | 0 | 1 | 100 | 9.606496 |
| ## 1718 | 0 | 0 | 121 | 10.179262 |
| ## 1719 | 0 | 1 | 100 | 9.888932 |
| ## 1722 | 0 | 1 | 0 | 8.412055 |
| ## 1723 | 0 | 1 | 0 | 8.732466 |
| ## 1724 | 0 | 1 | 49 | 8.412055 |
| ## 1725 | 1 | 0 | 81 | 9.352794 |
| ## 1726 | 0 | 1 | 0 | 8.539150 |
| ## 1727 | 0 | 0 | 64 | 10.003831 |
| ## 1729 | 0 | 1 | 169 | 10.358092 |
| ## 1730 | 1 | 0 | 25 | 8.922792 |
| ## 1732 | 1 | 0 | 169 | 9.653165 |
| ## 1733 | 0 | 1 | 169 | 9.896513 |
| ## 1734 | 0 | 1 | 81 | 8.476580 |
| ## 1735 | 1 | 0 | 0 | 8.716208 |
| ## 1736 | 0 | 1 | 100 | 9.342333 |
| ## 1737 | 0 | 0 | 100 | 10.101559 |
| ## 1738 | 0 | 0 | 256 | 10.268165 |
| ## 1741 | 0 | 1 | 324 | 8.794976 |
| ## 1742 | 0 | 1 | 289 | 9.933580 |
| ## 1743 | 1 | 0 | 81 | 9.398561 |
| ## 1744 | 0 | 1 | 100 | 9.078065 |
| ## 1745 | 0 | 0 | 121 | 10.199175 |
| ## 1746 | 0 | 1 | 256 | 9.369990 |
| ## 1748 | 0 | 0 | 100 | 9.575747 |
| ## 1749 | 0 | 1 | 64 | 8.895767 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1751 | 0 | 1 | 169 | 9.676022 |
| ## 1752 | 0 | 0 | 121 | 9.381011 |
| ## 1753 | 0 | 0 | 0 | 9.778548 |
| ## 1754 | 0 | 1 | 225 | 9.732165 |
| ## 1755 | 1 | 0 | 144 | 9.248695 |
| ## 1756 | 0 | 0 | 144 | 9.170664 |
| ## 1757 | 0 | 1 | 100 | 10.071583 |
| ## 1760 | 0 | 1 | 121 | 9.233178 |
| ## 1761 | 0 | 1 | 4 | 9.458840 |
| ## 1762 | 0 | 0 | 144 | 9.629774 |
| ## 1763 | 0 | 0 | 225 | 8.643121 |
| ## 1764 | 0 | 1 | 100 | 9.250618 |
| ## 1765 | 0 | 0 | 121 | 8.699681 |
| ## 1767 | 0 | 1 | 144 | 8.651899 |
| ## 1768 | 1 | 0 | 169 | 10.568775 |
| ## 1770 | 0 | 1 | 121 | 9.275285 |
| ## 1771 | 0 | 0 | 49 | 9.346705 |
| ## 1772 | 0 | 1 | 121 | 8.343078 |
| ## 1773 | 0 | 1 | 100 | 8.556606 |
| ## 1774 | 1 | 0 | 144 | 8.949105 |
| ## 1775 | 0 | 1 | 225 | 10.303974 |
| ## 1776 | 0 | 1 | 121 | 9.396073 |
| ## 1779 | 0 | 0 | 169 | 9.570180 |
| ## 1780 | 0 | 0 | 196 | 9.984653 |
| ## 1781 | 0 | 1 | 64 | 10.077063 |
| ## 1782 | 0 | 0 | 64 | 9.000976 |
| ## 1783 | 1 | 0 | 0 | 8.732466 |
| ## 1784 | 0 | 0 | 144 | 8.594339 |
| ## 1786 | 0 | 1 | 225 | 10.407621 |
| ## 1787 | 0 | 1 | 144 | 9.374243 |
| ## 1789 | 0 | 0 | 121 | 10.101149 |
| ## 1790 | 0 | 1 | 144 | 8.832150 |
| ## 1791 | 0 | 0 | 121 | 10.552970 |
| ## 1792 | 0 | 1 | 100 | 10.013731 |
| ## 1793 | 0 | 0 | 4 | 9.661480 |
| ## 1794 | 1 | 0 | 144 | 9.138952 |
| ## 1795 | 0 | 0 | 169 | 9.513477 |
| ## 1798 | 1 | 0 | 64 | 9.753885 |
| ## 1799 | 0 | 0 | 100 | 9.844321 |
| ## 1800 | 0 | 1 | 289 | 8.634265 |
| ## 1801 | 0 | 1 | 196 | 8.734077 |
| ## 1802 | 1 | 0 | 0 | 10.261896 |
| ## 1803 | 0 | 1 | 225 | 9.600421 |
| ## 1805 | 0 | 0 | 121 | 7.313887 |
| ## 1806 | 0 | 1 | 100 | 9.127067 |
| ## 1808 | 1 | 0 | 0 | 8.909370 |
| ## 1809 | 0 | 0 | 121 | 9.451009 |
| ## 1810 | 0 | 0 | 144 | 9.250618 |
| ## 1811 | 0 | 1 | 49 | 10.174316 |
| ## 1812 | 0 | 0 | 169 | 9.723822 |
| ## 1813 | 0 | 1 | 256 | 9.586102 |
| ## 1814 | 0 | 0 | 225 | 8.318986 |
| ## 1817 | 0 | 0 | 0 | 9.761405 |
| ## 1818 | 0 | 1 | 81 | 9.778548 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1819 | 1 | 0 | 49 | 9.214432 |
| ## 1820 | 0 | 1 | 64 | 9.042040 |
| ## 1821 | 0 | 0 | 0 | 7.859799 |
| ## 1822 | 0 | 1 | 225 | 10.264339 |
| ## 1824 | 0 | 1 | 121 | 9.115040 |
| ## 1825 | 0 | 1 | 100 | 9.995200 |
| ## 1828 | 0 | 0 | 169 | 10.212478 |
| ## 1829 | 0 | 0 | 64 | 9.538996 |
| ## 1830 | 0 | 0 | 144 | 10.078743 |
| ## 1831 | 0 | 0 | 144 | 9.061956 |
| ## 1832 | 1 | 0 | 196 | 9.768870 |
| ## 1833 | 0 | 0 | 169 | 9.027739 |
| ## 1834 | 0 | 0 | 100 | 9.215427 |
| ## 1837 | 0 | 0 | 64 | 8.517393 |
| ## 1838 | 1 | 0 | 169 | 10.212478 |
| ## 1839 | 0 | 1 | 196 | 8.451267 |
| ## 1840 | 1 | 0 | 121 | 9.993374 |
| ## 1841 | 0 | 0 | 121 | 8.955577 |
| ## 1842 | 0 | 0 | 100 | 8.734077 |
| ## 1844 | 0 | 0 | 196 | 8.599879 |
| ## 1845 | 0 | 1 | 144 | 9.762557 |
| ## 1847 | 0 | 1 | 169 | 9.034915 |
| ## 1848 | 1 | 0 | 196 | 9.178953 |
| ## 1849 | 0 | 1 | 0 | 8.627123 |
| ## 1850 | 0 | 1 | 121 | 9.241936 |
| ## 1851 | 0 | 1 | 121 | 9.089415 |
| ## 1852 | 0 | 1 | 81 | 9.281823 |
| ## 1853 | 1 | 0 | 196 | 10.311317 |
| ## 1856 | 1 | 0 | 169 | 9.516427 |
| ## 1857 | 0 | 0 | 169 | 10.195448 |
| ## 1858 | 0 | 0 | 0 | 9.781376 |
| ## 1859 | 1 | 0 | 64 | 9.665928 |
| ## 1860 | 0 | 0 | 144 | 10.001113 |
| ## 1861 | 0 | 1 | 144 | 9.590214 |
| ## 1863 | 1 | 0 | 144 | 9.844321 |
| ## 1864 | 0 | 0 | 121 | 9.883846 |
| ## 1866 | 1 | 0 | 100 | 8.543056 |
| ## 1867 | 0 | 1 | 81 | 9.583351 |
| ## 1868 | 1 | 0 | 100 | 9.689118 |
| ## 1869 | 1 | 0 | 196 | 10.023978 |
| ## 1870 | 0 | 0 | 49 | 8.276649 |
| ## 1871 | 0 | 0 | 225 | 9.814164 |
| ## 1872 | 1 | 0 | 121 | 9.106201 |
| ## 1875 | 0 | 0 | 196 | 9.913487 |
| ## 1876 | 0 | 0 | 169 | 10.066074 |
| ## 1877 | 0 | 0 | 0 | 8.839422 |
| ## 1878 | 0 | 0 | 0 | 8.824825 |
| ## 1879 | 1 | 0 | 169 | 9.719625 |
| ## 1880 | 0 | 1 | 64 | 9.108418 |
| ## 1882 | 0 | 1 | 121 | 10.243205 |
| ## 1883 | 1 | 0 | 64 | 9.723822 |
| ## 1885 | 0 | 1 | 144 | 9.257319 |
| ## 1886 | 0 | 0 | 169 | 8.936035 |
| ## 1887 | 0 | 1 | 144 | 10.119445 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1888 | 0 | 0 | 196 | 9.729789 |
| ## 1889 | 0 | 0 | 196 | 9.405989 |
| ## 1890 | 0 | 1 | 81 | 10.119042 |
| ## 1891 | 0 | 1 | 64 | 9.492583 |
| ## 1894 | 0 | 1 | 81 | 9.570878 |
| ## 1895 | 0 | 0 | 121 | 10.431495 |
| ## 1896 | 0 | 0 | 256 | 9.786448 |
| ## 1897 | 0 | 1 | 144 | 9.651880 |
| ## 1898 | 1 | 0 | 36 | 9.809781 |
| ## 1899 | 1 | 0 | 64 | 10.034998 |
| ## 1901 | 0 | 0 | 169 | 9.976320 |
| ## 1902 | 1 | 0 | 64 | 9.627800 |
| ## 1904 | 0 | 0 | 0 | 9.792053 |
| ## 1905 | 0 | 0 | 169 | 8.474494 |
| ## 1906 | 1 | 0 | 289 | 8.648397 |
| ## 1907 | 0 | 0 | 0 | 8.721113 |
| ## 1908 | 0 | 0 | 121 | 9.487290 |
| ## 1909 | 0 | 1 | 169 | 8.513386 |
| ## 1910 | 0 | 1 | 144 | 8.594339 |
| ## 1913 | 0 | 1 | 100 | 9.223355 |
| ## 1914 | 0 | 1 | 0 | 8.366603 |
| ## 1915 | 0 | 0 | 225 | 9.004668 |
| ## 1916 | 0 | 0 | 144 | 10.609576 |
| ## 1917 | 0 | 0 | 169 | 9.587475 |
| ## 1918 | 0 | 0 | 121 | 9.905535 |
| ## 1920 | 0 | 0 | 144 | 9.833119 |
| ## 1921 | 0 | 1 | 144 | 9.726810 |
| ## 1923 | 0 | 1 | 289 | 9.361429 |
| ## 1924 | 1 | 0 | 169 | 9.644782 |
| ## 1925 | 0 | 0 | 121 | 9.902537 |
| ## 1926 | 0 | 1 | 0 | 8.507345 |
| ## 1927 | 0 | 0 | 49 | 9.835262 |
| ## 1928 | 1 | 0 | 169 | 10.233906 |
| ## 1929 | 1 | 0 | 100 | 9.956602 |
| ## 1932 | 0 | 1 | 121 | 8.476580 |
| ## 1933 | 0 | 1 | 36 | 9.902537 |
| ## 1934 | 0 | 1 | 100 | 9.217415 |
| ## 1935 | 0 | 1 | 81 | 9.436759 |
| ## 1936 | 0 | 0 | 169 | 8.938663 |
| ## 1937 | 0 | 0 | 196 | 9.771155 |
| ## 1939 | 0 | 1 | 100 | 8.943898 |
| ## 1940 | 0 | 1 | 81 | 9.632400 |
| ## 1942 | 0 | 0 | 0 | 9.588160 |
| ## 1943 | 0 | 1 | 144 | 9.235131 |
| ## 1944 | 0 | 1 | 169 | 10.232827 |
| ## 1945 | 1 | 0 | 169 | 10.183805 |
| ## 1946 | 0 | 1 | 169 | 9.694678 |
| ## 1947 | 1 | 0 | 144 | 10.014179 |
| ## 1948 | 0 | 0 | 144 | 9.177920 |
| ## 1951 | 0 | 0 | 256 | 9.881293 |
| ## 1952 | 1 | 0 | 196 | 10.037188 |
| ## 1953 | 0 | 1 | 81 | 10.558439 |
| ## 1954 | 1 | 0 | 256 | 9.803722 |
| ## 1955 | 0 | 0 | 196 | 10.006991 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 1956 | 0 | 0 | 196 | 8.732466 |
| ## 1958 | 0 | 1 | 0 | 9.724421 |
| ## 1959 | 1 | 0 | 144 | 8.764210 |
| ## 1961 | 0 | 1 | 25 | 9.327323 |
| ## 1962 | 0 | 1 | 121 | 8.877800 |
| ## 1963 | 1 | 0 | 196 | 9.804275 |
| ## 1964 | 0 | 1 | 0 | 8.732466 |
| ## 1965 | 0 | 0 | 144 | 9.268704 |
| ## 1966 | 0 | 1 | 64 | 9.911009 |
| ## 1967 | 0 | 1 | 289 | 9.351058 |
| ## 1970 | 0 | 0 | 144 | 10.287763 |
| ## 1971 | 1 | 0 | 0 | 9.831508 |
| ## 1972 | 0 | 0 | 169 | 9.712993 |
| ## 1973 | 1 | 0 | 25 | 9.787010 |
| ## 1974 | 0 | 1 | 169 | 9.865838 |
| ## 1975 | 0 | 0 | 81 | 9.687258 |
| ## 1977 | 0 | 1 | 49 | 9.977249 |
| ## 1978 | 1 | 0 | 169 | 10.026192 |
| ## 1980 | 1 | 0 | 144 | 9.405167 |
| ## 1981 | 0 | 1 | 169 | 9.708142 |
| ## 1982 | 1 | 0 | 100 | 9.579211 |
| ## 1983 | 0 | 1 | 0 | 9.655731 |
| ## 1984 | 1 | 0 | 36 | 9.570878 |
| ## 1985 | 0 | 0 | 0 | 9.743964 |
| ## 1986 | 0 | 1 | 169 | 8.802522 |
| ## 1989 | 0 | 1 | 0 | 10.281958 |
| ## 1990 | 0 | 1 | 169 | 9.522300 |
| ## 1991 | 0 | 1 | 100 | 10.440303 |
| ## 1992 | 1 | 0 | 0 | 8.891649 |
| ## 1993 | 0 | 1 | 81 | 9.324651 |
| ## 1994 | 0 | 0 | 144 | 9.997934 |
| ## 1996 | 0 | 1 | 144 | 9.589530 |
| ## 1997 | 0 | 0 | 121 | 9.518634 |
| ## 1999 | 0 | 0 | 144 | 9.049115 |
| ## 2000 | 0 | 0 | 225 | 9.919410 |
| ## 2001 | 0 | 1 | 196 | 9.800402 |
| ## 2002 | 0 | 0 | 121 | 9.972127 |
| ## 2003 | 0 | 0 | 100 | 9.351927 |
| ## 2004 | 0 | 1 | 225 | 8.517393 |
| ## 2005 | 0 | 0 | 169 | 10.040245 |
| ## 2008 | 0 | 1 | 196 | 9.839536 |
| ## 2009 | 0 | 0 | 36 | 10.019090 |
| ## 2010 | 0 | 0 | 64 | 10.353001 |
| ## 2011 | 0 | 0 | 49 | 9.913487 |
| ## 2012 | 0 | 0 | 121 | 9.012011 |
| ## 2013 | 0 | 1 | 144 | 9.280892 |
| ## 2015 | 1 | 0 | 196 | 10.045464 |
| ## 2016 | 0 | 0 | 121 | 9.491828 |
| ## 2018 | 0 | 0 | 196 | 10.251712 |
| ## 2019 | 0 | 1 | 100 | 9.846970 |
| ## 2020 | 1 | 0 | 256 | 9.478151 |
| ## 2021 | 1 | 0 | 225 | 9.546170 |
| ## 2022 | 1 | 0 | 9 | 10.076642 |
| ## 2023 | 0 | 1 | 121 | 9.742790 |

| | | | | |
|---------|---|---|-----|-----------|
| ## 2024 | 1 | 0 | 121 | 9.042040 |
| ## 2027 | 0 | 0 | 144 | 9.722625 |
| ## 2028 | 0 | 1 | 144 | 9.112838 |
| ## 2029 | 0 | 0 | 81 | 10.249238 |
| ## 2030 | 0 | 0 | 0 | 10.002020 |
| ## 2031 | 1 | 0 | 225 | 9.940350 |
| ## 2032 | 0 | 1 | 169 | 9.860110 |
| ## 2034 | 0 | 1 | 169 | 9.317489 |
| ## 2035 | 0 | 0 | 49 | 9.419872 |
| ## 2037 | 0 | 1 | 256 | 8.497195 |
| ## 2038 | 1 | 0 | 121 | 9.804275 |
| ## 2039 | 1 | 0 | 256 | 7.758333 |
| ## 2040 | 1 | 0 | 121 | 9.960388 |
| ## 2041 | 0 | 1 | 36 | 8.905309 |
| ## 2042 | 0 | 0 | 196 | 9.109525 |
| ## 2043 | 1 | 0 | 0 | 8.612685 |
| ## 2046 | 0 | 1 | 196 | 10.031925 |
| ## 2047 | 0 | 1 | 225 | 8.268988 |
| ## 2048 | 0 | 0 | 144 | 8.653645 |
| ## 2049 | 0 | 0 | 169 | 8.594339 |
| ## 2050 | 1 | 0 | 225 | 10.337573 |
| ## 2051 | 0 | 0 | 225 | 9.477386 |
| ## 2053 | 1 | 0 | 0 | 8.140607 |
| ## 2054 | 0 | 1 | 0 | 9.539716 |
| ## 2056 | 1 | 0 | 64 | 9.854875 |
| ## 2057 | 1 | 0 | 36 | 10.026192 |
| ## 2058 | 1 | 0 | 196 | 10.226332 |
| ## 2059 | 0 | 1 | 144 | 9.088286 |
| ## 2060 | 1 | 0 | 196 | 9.093919 |
| ## 2061 | 0 | 1 | 81 | 9.173780 |
| ## 2062 | 1 | 0 | 144 | 9.190240 |
| ## 2065 | 0 | 0 | 169 | 10.457401 |
| ## 2066 | 0 | 1 | 225 | 9.349319 |
| ## 2067 | 0 | 1 | 121 | 8.989818 |
| ## 2068 | 0 | 1 | 81 | 8.798002 |
| ## 2069 | 0 | 1 | 144 | 9.556834 |
| ## 2070 | 1 | 0 | 49 | 9.531046 |
| ## 2072 | 0 | 0 | 169 | 10.262245 |
| ## 2073 | 0 | 1 | 81 | 9.922849 |
| ## 2075 | 1 | 0 | 100 | 9.354527 |
| ## 2076 | 0 | 1 | 196 | 8.767329 |
| ## 2077 | 0 | 0 | 49 | 8.858084 |
| ## 2078 | 1 | 0 | 121 | 9.821789 |
| ## 2079 | 0 | 0 | 81 | 8.912069 |
| ## 2080 | 1 | 0 | 121 | 8.521384 |
| ## 2081 | 1 | 0 | 144 | 9.266815 |
| ## 2084 | 0 | 0 | 196 | 8.808519 |
| ## 2085 | 0 | 1 | 144 | 9.081484 |
| ## 2086 | 0 | 0 | 0 | 9.475086 |
| ## 2087 | 0 | 1 | 225 | 8.714568 |
| ## 2088 | 0 | 0 | 144 | 8.556606 |
| ## 2089 | 0 | 1 | 121 | 9.271530 |
| ## 2091 | 0 | 1 | 0 | 8.294300 |
| ## 2092 | 0 | 0 | 49 | 10.035436 |

| | | | | |
|---------|------------|-------------|-------|-----------|
| ## 2094 | 0 | 0 | 169 | 10.069468 |
| ## 2095 | 0 | 0 | 144 | 9.581973 |
| ## 2096 | 1 | 0 | 100 | 9.960388 |
| ## 2097 | 0 | 1 | 0 | 9.436759 |
| ## 2098 | 1 | 0 | 0 | 8.839422 |
| ## 2099 | 0 | 1 | 36 | 9.777414 |
| ## 2100 | 0 | 0 | 144 | 9.544023 |
| ## 2103 | 1 | 0 | 196 | 10.518160 |
| ## 2104 | 0 | 0 | 121 | 9.061956 |
| ## 2105 | 1 | 0 | 0 | 9.975390 |
| ## 2106 | 0 | 0 | 0 | 8.665786 |
| ## 2107 | 0 | 1 | 169 | 8.436200 |
| ## 2108 | 0 | 1 | 121 | 8.853808 |
| ## 2110 | 1 | 0 | 225 | 10.359994 |
| ## 2111 | 0 | 1 | 196 | 9.433564 |
| ## 2113 | 0 | 0 | 196 | 10.220158 |
| ## 2114 | 0 | 0 | 100 | 9.456497 |
| ## 2115 | 0 | 0 | 144 | 10.194327 |
| ## 2116 | 0 | 1 | 49 | 9.383537 |
| ## 2117 | 0 | 0 | 196 | 9.715409 |
| ## 2118 | 0 | 1 | 324 | 9.840601 |
| ## 2119 | 0 | 0 | 144 | 8.648397 |
| ## 2122 | 0 | 0 | 49 | 8.964568 |
| ## 2123 | 0 | 1 | 121 | 9.681656 |
| ## 2124 | 0 | 1 | 121 | 9.197356 |
| ## 2125 | 0 | 0 | 169 | 9.840601 |
| ## 2126 | 0 | 1 | 144 | 9.226312 |
| ## 2127 | 0 | 0 | 36 | 9.729789 |
| ## 2129 | 0 | 0 | 144 | 10.164351 |
| ## 2130 | 0 | 0 | 169 | 9.133567 |
| ## 2132 | 1 | 0 | 0 | 8.466110 |
| ## 2133 | 0 | 0 | 100 | 9.441531 |
| ## 2134 | 1 | 0 | 225 | 9.636980 |
| ## 2135 | 0 | 1 | 196 | 9.183072 |
| ## 2136 | 0 | 0 | 169 | 9.902037 |
| ## 2137 | 0 | 0 | 100 | 9.541872 |
| ## 2138 | 0 | 1 | 0 | 8.648397 |
| ## 2141 | 0 | 1 | 121 | 8.653645 |
| ## 2142 | 1 | 0 | 169 | 9.747477 |
| ## 2143 | 0 | 0 | 196 | 9.593628 |
| ## 2144 | 0 | 0 | 225 | 9.504576 |
| ## 2145 | 0 | 1 | 225 | 9.945157 |
| ## 2146 | 1 | 0 | 196 | 10.183805 |
| ## 2148 | 0 | 0 | 100 | 10.086684 |
| ## 2149 | 0 | 0 | 169 | 10.446422 |
| ## 2151 | 1 | 0 | 100 | 9.468156 |
| ## 2152 | 0 | 1 | 144 | 7.313887 |
| ## 2153 | 0 | 1 | 121 | 9.332646 |
| ## | carage_log | mvr_pts_log | inter | |
| ## 1 | 2.0794415 | 0.0000000 | 0 | |
| ## 3 | 0.6931472 | 0.0000000 | 0 | |
| ## 4 | 2.4849066 | 0.0000000 | 0 | |
| ## 5 | 2.3978953 | 1.3862944 | 0 | |
| ## 6 | 1.7917595 | 1.3862944 | 0 | |

| | | | |
|-------|-----------|-----------|-----|
| ## 7 | 0.6931472 | 0.0000000 | 0 |
| ## 8 | 0.6931472 | 1.3862944 | 0 |
| ## 9 | 0.6931472 | 0.0000000 | 0 |
| ## 12 | 2.6390573 | 0.0000000 | 45 |
| ## 13 | 2.3978953 | 0.0000000 | 44 |
| ## 14 | 0.6931472 | 0.0000000 | 0 |
| ## 15 | 2.3978953 | 1.0986123 | 0 |
| ## 16 | 2.7725887 | 0.0000000 | 86 |
| ## 17 | 2.4849066 | 1.0986123 | 45 |
| ## 19 | 0.6931472 | 1.6094379 | 0 |
| ## 20 | 0.6931472 | 1.6094379 | 0 |
| ## 22 | 2.3025851 | 0.6931472 | 0 |
| ## 23 | 2.8903718 | 1.9459101 | 0 |
| ## 24 | 1.7917595 | 1.0986123 | 0 |
| ## 25 | 1.9459101 | 1.3862944 | 0 |
| ## 26 | 2.3978953 | 0.0000000 | 0 |
| ## 27 | 1.7917595 | 0.6931472 | 0 |
| ## 28 | 2.9444390 | 1.0986123 | 0 |
| ## 31 | 2.3025851 | 0.0000000 | 43 |
| ## 32 | 0.6931472 | 1.7917595 | 0 |
| ## 33 | 3.0445224 | 1.6094379 | 0 |
| ## 34 | 0.6931472 | 1.6094379 | 39 |
| ## 35 | 2.7725887 | 0.0000000 | 0 |
| ## 36 | 2.8903718 | 0.0000000 | 0 |
| ## 38 | 0.6931472 | 0.0000000 | 45 |
| ## 39 | 1.7917595 | 1.3862944 | 0 |
| ## 41 | 2.0794415 | 0.0000000 | 0 |
| ## 42 | 2.3978953 | 1.7917595 | 108 |
| ## 43 | 3.0445224 | 0.0000000 | 0 |
| ## 44 | 2.0794415 | 0.0000000 | 0 |
| ## 45 | 1.7917595 | 0.0000000 | 0 |
| ## 46 | 2.7080502 | 1.0986123 | 0 |
| ## 47 | 2.8332133 | 0.0000000 | 59 |
| ## 50 | 2.3025851 | 0.0000000 | 0 |
| ## 51 | 2.1972246 | 1.3862944 | 90 |
| ## 52 | 0.6931472 | 2.1972246 | 0 |
| ## 53 | 2.4849066 | 1.3862944 | 0 |
| ## 54 | 2.3025851 | 2.1972246 | 0 |
| ## 55 | 3.0445224 | 1.0986123 | 0 |
| ## 57 | 1.7917595 | 1.6094379 | 0 |
| ## 58 | 2.7080502 | 0.6931472 | 0 |
| ## 60 | 0.6931472 | 0.0000000 | 0 |
| ## 61 | 2.5649494 | 1.3862944 | 42 |
| ## 62 | 0.6931472 | 1.7917595 | 0 |
| ## 63 | 2.9444390 | 1.6094379 | 0 |
| ## 64 | 0.6931472 | 2.1972246 | 0 |
| ## 65 | 0.6931472 | 1.6094379 | 0 |
| ## 66 | 0.6931472 | 1.3862944 | 45 |
| ## 69 | 2.7725887 | 0.0000000 | 0 |
| ## 70 | 2.7080502 | 1.0986123 | 0 |
| ## 71 | 1.3862944 | 0.0000000 | 0 |
| ## 72 | 0.6931472 | 1.0986123 | 0 |
| ## 73 | 2.3978953 | 0.0000000 | 78 |
| ## 74 | 0.6931472 | 2.0794415 | 0 |

```

## 76 1.7917595 0.0000000 39
## 77 0.6931472 1.7917595 0
## 79 2.7080502 1.7917595 0
## 80 2.3025851 1.0986123 0
## 81 2.6390573 0.6931472 0
## 82 1.9459101 1.7917595 0
## 83 2.3978953 0.0000000 0
## 84 0.6931472 0.6931472 0
## 85 0.6931472 1.7917595 0
## 88 0.6931472 1.3862944 37
## 89 0.6931472 1.9459101 0
## 90 0.6931472 0.6931472 0
## 91 2.0794415 0.0000000 37
## 92 2.3025851 1.9459101 0
## 93 0.6931472 1.0986123 40
## 95 1.7917595 1.3862944 0
## 96 1.9459101 2.0794415 0
## 98 1.9459101 1.3862944 0
## 99 0.6931472 0.0000000 0
## 100 2.9957323 0.0000000 0
## 101 2.3025851 0.6931472 0
## 102 0.6931472 2.1972246 72
## 103 2.1972246 1.0986123 72
## 104 2.4849066 1.0986123 0
## 107 0.6931472 1.9459101 0
## 108 0.6931472 1.3862944 39
## 109 2.0794415 0.6931472 0
## 110 2.0794415 0.6931472 57
## 111 2.4849066 0.6931472 0
## 112 2.3978953 1.0986123 82
## 114 2.1972246 0.0000000 0
## 115 2.4849066 2.1972246 0
## 117 0.6931472 1.0986123 0
## 118 1.7917595 0.0000000 0
## 119 0.6931472 0.0000000 0
## 120 0.6931472 1.0986123 0
## 121 2.1972246 1.0986123 0
## 122 2.3978953 0.0000000 0
## 123 0.6931472 1.3862944 0
## 126 2.1972246 0.6931472 0
## 127 1.3862944 0.6931472 0
## 128 0.6931472 0.0000000 0
## 129 1.7917595 1.3862944 42
## 130 2.0794415 1.0986123 0
## 131 2.3978953 1.3862944 0
## 133 2.1972246 0.6931472 0
## 134 0.6931472 1.0986123 0
## 136 2.3978953 1.0986123 0
## 137 0.6931472 0.0000000 0
## 138 2.4849066 0.0000000 0
## 139 2.1972246 0.0000000 0
## 140 1.6094379 1.0986123 0
## 141 1.9459101 1.3862944 0
## 142 0.6931472 1.0986123 0

```

| | | | |
|--------|-----------|-----------|-----|
| ## 145 | 0.6931472 | 1.6094379 | 186 |
| ## 146 | 2.7080502 | 0.6931472 | 0 |
| ## 147 | 2.8332133 | 0.0000000 | 0 |
| ## 148 | 2.8332133 | 1.0986123 | 0 |
| ## 149 | 3.0445224 | 1.0986123 | 0 |
| ## 150 | 3.1354942 | 0.0000000 | 0 |
| ## 152 | 3.0445224 | 0.6931472 | 0 |
| ## 153 | 2.1972246 | 1.3862944 | 42 |
| ## 155 | 0.6931472 | 1.6094379 | 0 |
| ## 156 | 0.6931472 | 2.0794415 | 0 |
| ## 157 | 3.0910425 | 0.0000000 | 0 |
| ## 158 | 2.3025851 | 1.0986123 | 0 |
| ## 159 | 2.8332133 | 0.0000000 | 0 |
| ## 160 | 1.7917595 | 0.6931472 | 42 |
| ## 161 | 0.6931472 | 1.3862944 | 0 |
| ## 164 | 2.3978953 | 1.0986123 | 0 |
| ## 165 | 0.6931472 | 0.6931472 | 0 |
| ## 166 | 2.3025851 | 1.0986123 | 0 |
| ## 167 | 0.6931472 | 2.0794415 | 0 |
| ## 168 | 2.7725887 | 2.0794415 | 0 |
| ## 169 | 0.6931472 | 0.0000000 | 0 |
| ## 171 | 0.6931472 | 1.0986123 | 90 |
| ## 172 | 0.6931472 | 0.0000000 | 0 |
| ## 174 | 1.7917595 | 1.3862944 | 80 |
| ## 175 | 2.6390573 | 1.0986123 | 0 |
| ## 176 | 2.3025851 | 1.6094379 | 0 |
| ## 177 | 2.0794415 | 0.0000000 | 0 |
| ## 178 | 1.6094379 | 1.0986123 | 90 |
| ## 179 | 2.9444390 | 0.0000000 | 41 |
| ## 180 | 2.9957323 | 0.0000000 | 0 |
| ## 183 | 2.7725887 | 1.3862944 | 0 |
| ## 184 | 2.6390573 | 0.6931472 | 0 |
| ## 185 | 2.8332133 | 0.6931472 | 0 |
| ## 186 | 0.6931472 | 0.6931472 | 0 |
| ## 187 | 0.6931472 | 1.9459101 | 0 |
| ## 188 | 2.3025851 | 1.7917595 | 0 |
| ## 190 | 2.3978953 | 0.0000000 | 0 |
| ## 191 | 0.6931472 | 0.0000000 | 0 |
| ## 193 | 2.1972246 | 0.6931472 | 0 |
| ## 194 | 2.5649494 | 0.0000000 | 0 |
| ## 195 | 2.6390573 | 0.0000000 | 0 |
| ## 196 | 2.0794415 | 0.0000000 | 86 |
| ## 197 | 0.6931472 | 1.0986123 | 84 |
| ## 198 | 0.6931472 | 0.6931472 | 0 |
| ## 199 | 2.3025851 | 1.3862944 | 42 |
| ## 202 | 2.7080502 | 0.0000000 | 0 |
| ## 203 | 2.3025851 | 0.0000000 | 0 |
| ## 204 | 0.6931472 | 0.0000000 | 0 |
| ## 205 | 1.6094379 | 0.6931472 | 0 |
| ## 206 | 2.6390573 | 1.7917595 | 0 |
| ## 207 | 2.8903718 | 0.0000000 | 0 |
| ## 209 | 0.6931472 | 0.6931472 | 0 |
| ## 210 | 2.1972246 | 1.3862944 | 0 |
| ## 212 | 0.6931472 | 0.0000000 | 0 |

```

## 213 2.8332133 1.3862944 0
## 214 2.7725887 0.0000000 0
## 215 2.3025851 1.9459101 0
## 216 2.0794415 1.6094379 0
## 217 2.5649494 0.6931472 0
## 218 2.8903718 1.6094379 41
## 221 2.3978953 1.0986123 0
## 222 2.1972246 2.3025851 0
## 223 2.6390573 0.0000000 0
## 224 1.9459101 1.7917595 0
## 225 2.1972246 1.0986123 56
## 226 0.6931472 1.6094379 0
## 228 2.1972246 1.3862944 0
## 229 0.6931472 0.0000000 0
## 231 0.6931472 0.0000000 45
## 232 2.5649494 0.0000000 0
## 233 2.9444390 1.9459101 118
## 234 1.9459101 1.7917595 0
## 235 2.3978953 1.6094379 0
## 236 0.6931472 1.6094379 0
## 237 0.6931472 0.0000000 0
## 240 0.6931472 2.3978953 0
## 241 2.3025851 1.0986123 0
## 242 0.6931472 0.0000000 0
## 243 2.5649494 0.0000000 0
## 244 2.3025851 0.6931472 0
## 245 0.6931472 1.0986123 0
## 247 2.7725887 1.6094379 39
## 248 0.6931472 0.0000000 0
## 250 2.1972246 1.3862944 0
## 251 2.0794415 0.0000000 0
## 252 0.6931472 0.6931472 0
## 253 0.6931472 0.0000000 0
## 254 1.7917595 1.9459101 0
## 255 2.4849066 0.0000000 0
## 256 1.9459101 1.7917595 0
## 259 2.1972246 2.0794415 0
## 260 0.6931472 1.3862944 0
## 261 2.3978953 1.3862944 39
## 262 0.6931472 0.0000000 0
## 263 2.0794415 1.6094379 0
## 264 2.6390573 2.0794415 0
## 266 2.3978953 1.9459101 0
## 267 2.0794415 2.1972246 0
## 269 2.5649494 0.0000000 76
## 270 0.6931472 1.7917595 0
## 271 1.9459101 1.7917595 40
## 272 0.6931472 1.9459101 0
## 273 1.6094379 1.6094379 0
## 274 0.6931472 1.0986123 0
## 275 2.1972246 1.7917595 0
## 278 1.9459101 0.0000000 0
## 279 0.6931472 1.7917595 0
## 280 0.6931472 0.0000000 0

```

```

## 281 0.6931472 0.0000000 0
## 282 1.9459101 0.6931472 37
## 283 2.9444390 0.0000000 0
## 285 2.8332133 1.0986123 0
## 286 2.1972246 0.0000000 37
## 288 2.7725887 1.7917595 80
## 289 0.6931472 0.6931472 0
## 290 0.6931472 2.0794415 0
## 291 0.6931472 1.9459101 0
## 292 0.6931472 1.9459101 0
## 293 1.9459101 1.7917595 0
## 294 0.6931472 1.0986123 80
## 297 0.6931472 1.7917595 84
## 298 2.8332133 1.9459101 0
## 299 1.7917595 1.0986123 0
## 300 2.9444390 1.3862944 0
## 301 2.9444390 0.0000000 0
## 302 2.7725887 0.0000000 0
## 304 2.8332133 0.6931472 0
## 305 2.8903718 1.6094379 43
## 307 1.9459101 1.3862944 0
## 308 1.6094379 0.0000000 0
## 309 2.5649494 0.0000000 0
## 310 1.7917595 1.9459101 0
## 311 2.1972246 1.7917595 0
## 312 2.0794415 1.9459101 0
## 313 0.6931472 2.3025851 0
## 316 2.1972246 0.0000000 0
## 317 0.6931472 1.0986123 0
## 318 0.6931472 1.0986123 0
## 319 2.3978953 1.3862944 78
## 320 2.3025851 1.7917595 0
## 321 1.9459101 0.6931472 0
## 323 2.9444390 1.6094379 0
## 324 2.5649494 0.0000000 0
## 326 2.6390573 0.0000000 0
## 327 1.6094379 1.6094379 0
## 328 0.6931472 1.0986123 0
## 329 2.8903718 0.6931472 0
## 330 2.1972246 1.0986123 0
## 331 0.6931472 1.3862944 0
## 332 3.0445224 1.9459101 0
## 335 0.6931472 1.7917595 39
## 336 0.6931472 0.0000000 0
## 337 1.9459101 0.0000000 0
## 338 2.7080502 0.6931472 0
## 339 2.7080502 1.7917595 0
## 340 2.7080502 0.0000000 36
## 342 2.3025851 1.0986123 0
## 343 2.3025851 0.6931472 0
## 345 0.6931472 0.0000000 0
## 346 2.1972246 1.0986123 0
## 347 1.9459101 0.0000000 0
## 348 0.6931472 2.3025851 0

```

```

## 349 2.7080502 1.3862944 0
## 350 2.0794415 0.0000000 0
## 351 2.8903718 0.0000000 0
## 354 0.6931472 1.7917595 0
## 355 2.3025851 0.0000000 0
## 356 0.6931472 1.0986123 0
## 357 2.6390573 0.6931472 0
## 358 2.3025851 1.9459101 0
## 359 2.0794415 1.3862944 0
## 361 0.6931472 0.6931472 0
## 362 2.0794415 2.0794415 0
## 364 2.9957323 0.6931472 0
## 365 2.4849066 0.0000000 0
## 366 0.6931472 1.6094379 0
## 367 2.4849066 0.0000000 0
## 368 2.4849066 0.0000000 0
## 369 2.3025851 0.6931472 0
## 370 1.9459101 1.7917595 0
## 373 2.3025851 1.7917595 0
## 374 3.0445224 1.7917595 0
## 375 0.6931472 0.0000000 0
## 376 2.1972246 0.0000000 0
## 377 2.5649494 2.1972246 0
## 378 2.7080502 0.0000000 0
## 380 0.6931472 0.0000000 0
## 381 2.4849066 1.0986123 0
## 383 0.6931472 0.0000000 0
## 384 0.6931472 2.0794415 36
## 385 0.6931472 0.0000000 0
## 386 2.8903718 0.0000000 0
## 387 1.9459101 0.0000000 0
## 388 2.8903718 1.6094379 0
## 389 0.6931472 2.1972246 0
## 392 2.4849066 1.6094379 114
## 393 2.4849066 0.6931472 0
## 394 2.1972246 2.3025851 0
## 395 2.0794415 1.6094379 0
## 396 0.6931472 1.6094379 0
## 397 2.6390573 0.0000000 0
## 399 1.7917595 2.3025851 0
## 400 0.6931472 0.0000000 0
## 402 1.7917595 1.7917595 0
## 403 0.6931472 1.0986123 0
## 404 0.6931472 0.0000000 0
## 405 2.9957323 0.0000000 0
## 406 2.6390573 0.0000000 0
## 407 2.1972246 2.1972246 0
## 408 0.6931472 1.3862944 0
## 411 2.8332133 1.0986123 0
## 412 2.7080502 0.0000000 0
## 413 1.9459101 1.7917595 0
## 414 2.3025851 0.6931472 0
## 415 1.9459101 1.0986123 0
## 416 0.6931472 1.3862944 0

```

| | | | |
|--------|-----------|-----------|-----|
| ## 418 | 2.1972246 | 1.9459101 | 0 |
| ## 419 | 0.6931472 | 0.0000000 | 0 |
| ## 421 | 2.5649494 | 1.9459101 | 0 |
| ## 422 | 1.9459101 | 1.0986123 | 39 |
| ## 423 | 0.6931472 | 0.6931472 | 44 |
| ## 424 | 0.6931472 | 1.3862944 | 0 |
| ## 425 | 2.5649494 | 1.6094379 | 0 |
| ## 426 | 2.7080502 | 0.0000000 | 0 |
| ## 427 | 2.0794415 | 1.9459101 | 0 |
| ## 430 | 2.3978953 | 0.6931472 | 0 |
| ## 431 | 2.0794415 | 0.0000000 | 0 |
| ## 432 | 2.1972246 | 1.0986123 | 0 |
| ## 433 | 0.6931472 | 1.9459101 | 0 |
| ## 434 | 2.0794415 | 0.0000000 | 55 |
| ## 435 | 2.1972246 | 1.6094379 | 41 |
| ## 437 | 2.0794415 | 2.1972246 | 0 |
| ## 438 | 0.6931472 | 0.0000000 | 0 |
| ## 440 | 2.6390573 | 2.3025851 | 0 |
| ## 441 | 0.6931472 | 0.0000000 | 0 |
| ## 442 | 0.6931472 | 1.9459101 | 0 |
| ## 443 | 0.6931472 | 1.7917595 | 0 |
| ## 444 | 1.7917595 | 1.3862944 | 0 |
| ## 445 | 1.9459101 | 1.0986123 | 0 |
| ## 446 | 1.7917595 | 0.0000000 | 0 |
| ## 449 | 2.9957323 | 2.1972246 | 0 |
| ## 450 | 2.4849066 | 1.7917595 | 0 |
| ## 451 | 2.3025851 | 1.9459101 | 112 |
| ## 452 | 2.5649494 | 0.0000000 | 0 |
| ## 453 | 0.6931472 | 1.9459101 | 0 |
| ## 454 | 1.6094379 | 0.0000000 | 0 |
| ## 456 | 1.9459101 | 1.3862944 | 0 |
| ## 457 | 2.0794415 | 0.0000000 | 0 |
| ## 459 | 2.7080502 | 1.0986123 | 37 |
| ## 460 | 2.8332133 | 0.0000000 | 0 |
| ## 461 | 2.4849066 | 1.0986123 | 0 |
| ## 462 | 0.6931472 | 1.3862944 | 88 |
| ## 463 | 0.6931472 | 0.6931472 | 0 |
| ## 464 | 2.1972246 | 0.0000000 | 0 |
| ## 465 | 1.9459101 | 0.6931472 | 0 |
| ## 468 | 0.6931472 | 1.6094379 | 42 |
| ## 469 | 0.6931472 | 1.7917595 | 0 |
| ## 470 | 2.3025851 | 0.0000000 | 0 |
| ## 471 | 2.7080502 | 0.0000000 | 0 |
| ## 472 | 2.5649494 | 1.6094379 | 0 |
| ## 473 | 2.3978953 | 0.0000000 | 0 |
| ## 475 | 2.1972246 | 1.3862944 | 180 |
| ## 476 | 1.7917595 | 0.0000000 | 0 |
| ## 478 | 0.6931472 | 1.0986123 | 0 |
| ## 479 | 0.6931472 | 0.0000000 | 0 |
| ## 480 | 1.7917595 | 0.6931472 | 0 |
| ## 481 | 2.3978953 | 1.0986123 | 0 |
| ## 482 | 0.6931472 | 1.3862944 | 37 |
| ## 483 | 1.9459101 | 0.6931472 | 0 |
| ## 484 | 2.4849066 | 0.0000000 | 41 |

```

## 487 2.0794415 0.0000000 0
## 488 0.6931472 0.0000000 0
## 489 1.9459101 0.0000000 0
## 490 0.6931472 2.1972246 0
## 491 1.9459101 1.3862944 0
## 492 2.1972246 1.9459101 0
## 494 2.7725887 0.6931472 43
## 495 0.6931472 0.0000000 34
## 497 0.6931472 1.0986123 0
## 498 2.3978953 2.1972246 53
## 499 2.0794415 0.6931472 0
## 500 0.6931472 0.0000000 0
## 501 2.3025851 1.0986123 0
## 502 2.0794415 0.0000000 0
## 503 0.6931472 1.0986123 0
## 506 2.1972246 1.3862944 0
## 507 2.4849066 0.0000000 0
## 508 2.5649494 1.9459101 57
## 509 2.8332133 0.6931472 0
## 510 2.4849066 0.0000000 0
## 511 1.6094379 1.3862944 0
## 513 0.6931472 1.3862944 0
## 514 2.1972246 1.0986123 0
## 516 0.6931472 2.1972246 76
## 517 1.9459101 1.0986123 0
## 518 0.6931472 0.0000000 0
## 519 3.2580965 1.3862944 120
## 520 2.3025851 1.3862944 0
## 521 0.6931472 2.3025851 0
## 522 0.6931472 1.7917595 0
## 525 0.6931472 1.7917595 0
## 526 0.6931472 1.0986123 0
## 527 2.8332133 0.0000000 0
## 528 2.4849066 2.1972246 60
## 529 2.0794415 1.7917595 0
## 530 0.6931472 1.3862944 0
## 532 2.3978953 2.0794415 0
## 533 2.5649494 2.0794415 37
## 535 0.6931472 1.6094379 0
## 536 2.0794415 1.3862944 0
## 537 2.0794415 1.3862944 0
## 538 2.3025851 0.0000000 0
## 539 0.6931472 1.6094379 123
## 540 2.0794415 0.0000000 0
## 541 2.4849066 0.0000000 0
## 544 2.5649494 1.6094379 0
## 545 2.8903718 0.0000000 0
## 546 0.6931472 2.1972246 0
## 547 2.6390573 1.6094379 0
## 548 0.6931472 0.0000000 0
## 549 2.7080502 1.3862944 0
## 551 2.5649494 0.6931472 0
## 552 0.6931472 0.0000000 0
## 554 2.9444390 0.6931472 0

```

| | | | |
|--------|-----------|-----------|-----|
| ## 555 | 0.6931472 | 1.7917595 | 0 |
| ## 556 | 2.9957323 | 0.0000000 | 0 |
| ## 557 | 2.0794415 | 1.7917595 | 0 |
| ## 558 | 1.9459101 | 0.0000000 | 0 |
| ## 559 | 2.1972246 | 2.1972246 | 0 |
| ## 560 | 2.5649494 | 0.0000000 | 0 |
| ## 563 | 2.8903718 | 0.6931472 | 36 |
| ## 564 | 2.7725887 | 2.0794415 | 0 |
| ## 565 | 0.6931472 | 0.0000000 | 0 |
| ## 566 | 0.6931472 | 1.3862944 | 0 |
| ## 567 | 0.6931472 | 2.3025851 | 0 |
| ## 568 | 2.6390573 | 2.0794415 | 0 |
| ## 570 | 2.4849066 | 0.0000000 | 0 |
| ## 571 | 2.3025851 | 0.0000000 | 0 |
| ## 573 | 0.6931472 | 1.6094379 | 0 |
| ## 574 | 0.6931472 | 0.0000000 | 0 |
| ## 575 | 0.6931472 | 1.0986123 | 0 |
| ## 576 | 2.5649494 | 1.0986123 | 0 |
| ## 577 | 2.3025851 | 1.6094379 | 0 |
| ## 578 | 0.6931472 | 2.0794415 | 36 |
| ## 579 | 2.1972246 | 1.3862944 | 0 |
| ## 582 | 0.6931472 | 1.3862944 | 0 |
| ## 583 | 3.0910425 | 1.6094379 | 0 |
| ## 584 | 2.3978953 | 1.0986123 | 0 |
| ## 585 | 0.6931472 | 0.0000000 | 0 |
| ## 586 | 0.6931472 | 0.6931472 | 0 |
| ## 587 | 2.3978953 | 1.0986123 | 0 |
| ## 589 | 0.6931472 | 1.0986123 | 0 |
| ## 590 | 2.4849066 | 1.6094379 | 0 |
| ## 592 | 2.8903718 | 0.0000000 | 0 |
| ## 593 | 0.6931472 | 2.1972246 | 0 |
| ## 594 | 2.0794415 | 1.6094379 | 0 |
| ## 595 | 2.8903718 | 0.6931472 | 0 |
| ## 596 | 3.0445224 | 1.6094379 | 0 |
| ## 597 | 2.4849066 | 1.7917595 | 0 |
| ## 598 | 1.7917595 | 1.6094379 | 0 |
| ## 601 | 2.3025851 | 1.3862944 | 0 |
| ## 602 | 2.3978953 | 1.0986123 | 0 |
| ## 603 | 2.7725887 | 0.6931472 | 43 |
| ## 604 | 0.6931472 | 0.6931472 | 0 |
| ## 605 | 2.5649494 | 1.7917595 | 0 |
| ## 606 | 2.8903718 | 0.0000000 | 0 |
| ## 608 | 0.6931472 | 0.0000000 | 39 |
| ## 609 | 2.9444390 | 0.0000000 | 0 |
| ## 611 | 2.9957323 | 1.9459101 | 117 |
| ## 612 | 2.8903718 | 0.0000000 | 0 |
| ## 613 | 1.7917595 | 1.3862944 | 0 |
| ## 614 | 0.6931472 | 1.6094379 | 126 |
| ## 615 | 2.5649494 | 0.0000000 | 0 |
| ## 616 | 0.6931472 | 1.6094379 | 0 |
| ## 617 | 0.6931472 | 1.0986123 | 36 |
| ## 620 | 2.1972246 | 1.3862944 | 0 |
| ## 621 | 1.7917595 | 0.0000000 | 0 |
| ## 622 | 2.0794415 | 1.0986123 | 108 |

| | | | |
|--------|-----------|-----------|-----|
| ## 623 | 2.5649494 | 0.6931472 | 0 |
| ## 624 | 0.6931472 | 0.0000000 | 0 |
| ## 625 | 2.7725887 | 1.3862944 | 0 |
| ## 627 | 0.6931472 | 0.0000000 | 0 |
| ## 628 | 2.3978953 | 1.6094379 | 0 |
| ## 630 | 0.6931472 | 0.0000000 | 0 |
| ## 631 | 1.7917595 | 0.6931472 | 0 |
| ## 632 | 2.3025851 | 1.6094379 | 0 |
| ## 633 | 0.6931472 | 2.0794415 | 0 |
| ## 634 | 2.0794415 | 1.3862944 | 123 |
| ## 635 | 0.6931472 | 0.0000000 | 0 |
| ## 636 | 0.6931472 | 2.1972246 | 41 |
| ## 639 | 2.1972246 | 0.6931472 | 0 |
| ## 640 | 2.0794415 | 0.0000000 | 0 |
| ## 641 | 3.1780538 | 1.3862944 | 0 |
| ## 642 | 2.1972246 | 0.0000000 | 0 |
| ## 643 | 2.5649494 | 2.1972246 | 0 |
| ## 644 | 2.3025851 | 1.3862944 | 38 |
| ## 646 | 2.6390573 | 1.6094379 | 0 |
| ## 647 | 2.5649494 | 0.6931472 | 42 |
| ## 649 | 2.1972246 | 1.0986123 | 0 |
| ## 650 | 0.6931472 | 1.7917595 | 0 |
| ## 651 | 0.6931472 | 2.3978953 | 38 |
| ## 652 | 0.6931472 | 2.0794415 | 0 |
| ## 653 | 0.6931472 | 1.9459101 | 0 |
| ## 654 | 0.6931472 | 0.0000000 | 0 |
| ## 655 | 0.6931472 | 1.9459101 | 0 |
| ## 658 | 1.9459101 | 1.0986123 | 0 |
| ## 659 | 0.6931472 | 0.0000000 | 0 |
| ## 660 | 2.0794415 | 0.0000000 | 0 |
| ## 661 | 3.0910425 | 0.0000000 | 43 |
| ## 662 | 2.8332133 | 0.0000000 | 0 |
| ## 663 | 0.6931472 | 0.0000000 | 0 |
| ## 665 | 0.6931472 | 1.7917595 | 0 |
| ## 666 | 2.4849066 | 1.9459101 | 0 |
| ## 668 | 2.7080502 | 0.0000000 | 0 |
| ## 669 | 1.7917595 | 1.0986123 | 0 |
| ## 670 | 0.6931472 | 0.0000000 | 53 |
| ## 671 | 2.1972246 | 1.9459101 | 0 |
| ## 672 | 1.9459101 | 0.0000000 | 76 |
| ## 673 | 1.7917595 | 1.9459101 | 0 |
| ## 674 | 2.5649494 | 2.1972246 | 0 |
| ## 677 | 0.6931472 | 0.6931472 | 0 |
| ## 678 | 2.3025851 | 0.6931472 | 0 |
| ## 679 | 2.7080502 | 1.0986123 | 0 |
| ## 680 | 2.5649494 | 0.0000000 | 88 |
| ## 681 | 2.1972246 | 2.1972246 | 0 |
| ## 682 | 1.9459101 | 0.0000000 | 0 |
| ## 684 | 0.6931472 | 0.0000000 | 0 |
| ## 685 | 0.6931472 | 0.0000000 | 40 |
| ## 687 | 1.9459101 | 1.3862944 | 38 |
| ## 688 | 2.7725887 | 0.6931472 | 78 |
| ## 689 | 0.6931472 | 0.0000000 | 0 |
| ## 690 | 0.6931472 | 1.6094379 | 0 |

| | | | |
|--------|-----------|-----------|-----|
| ## 691 | 2.0794415 | 0.6931472 | 0 |
| ## 692 | 1.9459101 | 1.7917595 | 0 |
| ## 693 | 2.0794415 | 0.0000000 | 86 |
| ## 696 | 2.3978953 | 2.3025851 | 0 |
| ## 697 | 1.7917595 | 1.3862944 | 0 |
| ## 698 | 2.1972246 | 0.6931472 | 0 |
| ## 699 | 0.6931472 | 0.6931472 | 0 |
| ## 700 | 0.6931472 | 2.1972246 | 0 |
| ## 701 | 0.6931472 | 1.3862944 | 0 |
| ## 703 | 2.3025851 | 2.0794415 | 39 |
| ## 704 | 2.3025851 | 1.3862944 | 44 |
| ## 706 | 2.7725887 | 0.0000000 | 0 |
| ## 707 | 0.6931472 | 2.1972246 | 0 |
| ## 708 | 2.3025851 | 2.0794415 | 0 |
| ## 709 | 0.6931472 | 1.0986123 | 58 |
| ## 710 | 1.6094379 | 0.0000000 | 0 |
| ## 711 | 2.6390573 | 1.7917595 | 0 |
| ## 712 | 2.0794415 | 1.0986123 | 0 |
| ## 715 | 3.2580965 | 1.7917595 | 82 |
| ## 716 | 2.7080502 | 1.0986123 | 0 |
| ## 717 | 3.0445224 | 2.1972246 | 0 |
| ## 718 | 0.6931472 | 1.6094379 | 0 |
| ## 719 | 0.6931472 | 0.0000000 | 37 |
| ## 720 | 2.3025851 | 1.0986123 | 0 |
| ## 722 | 0.6931472 | 1.0986123 | 0 |
| ## 723 | 0.6931472 | 1.0986123 | 0 |
| ## 725 | 2.4849066 | 0.0000000 | 86 |
| ## 726 | 0.6931472 | 1.0986123 | 0 |
| ## 727 | 2.4849066 | 0.6931472 | 126 |
| ## 728 | 0.6931472 | 2.1972246 | 0 |
| ## 729 | 2.9444390 | 0.0000000 | 0 |
| ## 730 | 2.4849066 | 1.7917595 | 0 |
| ## 731 | 3.0445224 | 0.6931472 | 0 |
| ## 734 | 0.6931472 | 0.6931472 | 0 |
| ## 735 | 2.9444390 | 1.7917595 | 0 |
| ## 736 | 2.7080502 | 2.3025851 | 40 |
| ## 737 | 0.6931472 | 1.3862944 | 0 |
| ## 738 | 2.9957323 | 1.7917595 | 0 |
| ## 739 | 1.3862944 | 2.0794415 | 0 |
| ## 741 | 2.3978953 | 1.0986123 | 0 |
| ## 742 | 0.6931472 | 1.7917595 | 0 |
| ## 744 | 2.6390573 | 0.0000000 | 0 |
| ## 745 | 0.6931472 | 1.0986123 | 0 |
| ## 746 | 0.6931472 | 0.6931472 | 36 |
| ## 747 | 0.6931472 | 2.1972246 | 0 |
| ## 748 | 1.9459101 | 1.9459101 | 0 |
| ## 749 | 2.3978953 | 1.3862944 | 0 |
| ## 750 | 0.6931472 | 0.0000000 | 0 |
| ## 753 | 0.6931472 | 1.7917595 | 0 |
| ## 754 | 2.3978953 | 0.6931472 | 0 |
| ## 755 | 2.3978953 | 1.6094379 | 0 |
| ## 756 | 0.6931472 | 0.0000000 | 0 |
| ## 757 | 2.3978953 | 0.0000000 | 0 |
| ## 758 | 2.0794415 | 0.0000000 | 0 |

| | | | |
|--------|-----------|-----------|-----|
| ## 760 | 2.3025851 | 1.0986123 | 0 |
| ## 761 | 1.9459101 | 1.3862944 | 0 |
| ## 763 | 2.0794415 | 1.6094379 | 0 |
| ## 764 | 0.6931472 | 0.0000000 | 0 |
| ## 765 | 2.3978953 | 2.4849066 | 0 |
| ## 766 | 2.8332133 | 2.1972246 | 0 |
| ## 767 | 0.6931472 | 0.0000000 | 0 |
| ## 768 | 0.6931472 | 0.0000000 | 72 |
| ## 769 | 1.6094379 | 0.6931472 | 0 |
| ## 772 | 2.3025851 | 1.3862944 | 0 |
| ## 773 | 2.9444390 | 1.6094379 | 0 |
| ## 774 | 0.6931472 | 0.6931472 | 0 |
| ## 775 | 2.1972246 | 0.0000000 | 0 |
| ## 776 | 2.3978953 | 0.0000000 | 90 |
| ## 777 | 2.1972246 | 0.6931472 | 82 |
| ## 779 | 2.6390573 | 0.0000000 | 0 |
| ## 780 | 1.7917595 | 1.3862944 | 0 |
| ## 782 | 2.0794415 | 1.0986123 | 0 |
| ## 783 | 1.0986123 | 0.6931472 | 0 |
| ## 784 | 0.6931472 | 0.0000000 | 0 |
| ## 785 | 2.4849066 | 0.0000000 | 0 |
| ## 786 | 1.6094379 | 1.3862944 | 0 |
| ## 787 | 2.6390573 | 0.0000000 | 0 |
| ## 788 | 0.6931472 | 1.6094379 | 0 |
| ## 791 | 2.3978953 | 1.7917595 | 0 |
| ## 792 | 2.5649494 | 2.0794415 | 0 |
| ## 793 | 2.0794415 | 0.0000000 | 0 |
| ## 794 | 2.4849066 | 1.0986123 | 0 |
| ## 795 | 2.0794415 | 0.0000000 | 0 |
| ## 796 | 2.6390573 | 0.0000000 | 0 |
| ## 798 | 0.6931472 | 1.7917595 | 0 |
| ## 799 | 1.6094379 | 1.6094379 | 0 |
| ## 801 | 2.7080502 | 1.7917595 | 90 |
| ## 802 | 0.6931472 | 1.7917595 | 0 |
| ## 803 | 2.1972246 | 0.6931472 | 129 |
| ## 804 | 0.6931472 | 0.6931472 | 0 |
| ## 805 | 0.6931472 | 2.0794415 | 0 |
| ## 806 | 2.3025851 | 1.9459101 | 0 |
| ## 807 | 2.6390573 | 0.0000000 | 45 |
| ## 810 | 2.0794415 | 0.0000000 | 0 |
| ## 811 | 2.8332133 | 0.0000000 | 0 |
| ## 812 | 0.6931472 | 1.7917595 | 78 |
| ## 813 | 2.3025851 | 0.6931472 | 0 |
| ## 814 | 2.0794415 | 0.0000000 | 0 |
| ## 815 | 0.6931472 | 1.9459101 | 129 |
| ## 817 | 0.6931472 | 1.3862944 | 0 |
| ## 818 | 2.7080502 | 0.0000000 | 0 |
| ## 820 | 2.0794415 | 0.0000000 | 0 |
| ## 821 | 0.6931472 | 0.0000000 | 0 |
| ## 822 | 1.9459101 | 1.0986123 | 0 |
| ## 823 | 2.1972246 | 0.0000000 | 0 |
| ## 824 | 2.4849066 | 0.0000000 | 0 |
| ## 825 | 0.6931472 | 0.6931472 | 0 |
| ## 826 | 0.6931472 | 1.9459101 | 42 |

| | | | |
|--------|-----------|-----------|-----|
| ## 829 | 2.1972246 | 0.0000000 | 0 |
| ## 830 | 2.3025851 | 1.0986123 | 0 |
| ## 831 | 0.6931472 | 2.3978953 | 0 |
| ## 832 | 2.5649494 | 0.0000000 | 0 |
| ## 833 | 1.7917595 | 2.4849066 | 0 |
| ## 834 | 0.6931472 | 0.0000000 | 0 |
| ## 836 | 2.8332133 | 2.4849066 | 0 |
| ## 837 | 2.3025851 | 0.0000000 | 0 |
| ## 839 | 0.6931472 | 0.0000000 | 0 |
| ## 840 | 0.6931472 | 1.3862944 | 0 |
| ## 841 | 0.6931472 | 0.0000000 | 0 |
| ## 842 | 2.0794415 | 1.0986123 | 129 |
| ## 843 | 2.3025851 | 0.0000000 | 0 |
| ## 844 | 0.6931472 | 0.0000000 | 0 |
| ## 845 | 2.1972246 | 0.0000000 | 0 |
| ## 848 | 2.9444390 | 2.3025851 | 0 |
| ## 849 | 2.1972246 | 0.6931472 | 42 |
| ## 850 | 1.7917595 | 1.7917595 | 0 |
| ## 851 | 0.6931472 | 1.6094379 | 0 |
| ## 852 | 0.6931472 | 1.9459101 | 0 |
| ## 853 | 0.6931472 | 1.3862944 | 0 |
| ## 855 | 0.6931472 | 0.6931472 | 0 |
| ## 856 | 2.5649494 | 2.0794415 | 0 |
| ## 858 | 2.3978953 | 0.6931472 | 0 |
| ## 859 | 2.3025851 | 2.0794415 | 0 |
| ## 860 | 0.6931472 | 0.0000000 | 0 |
| ## 861 | 1.9459101 | 0.6931472 | 0 |
| ## 862 | 0.6931472 | 0.0000000 | 0 |
| ## 863 | 2.3025851 | 0.0000000 | 0 |
| ## 864 | 2.1972246 | 0.0000000 | 0 |
| ## 867 | 1.7917595 | 0.0000000 | 42 |
| ## 868 | 2.0794415 | 2.0794415 | 0 |
| ## 869 | 2.5649494 | 2.0794415 | 0 |
| ## 870 | 2.3025851 | 0.0000000 | 59 |
| ## 871 | 0.6931472 | 0.0000000 | 0 |
| ## 872 | 2.5649494 | 0.0000000 | 0 |
| ## 874 | 2.8332133 | 0.6931472 | 0 |
| ## 875 | 2.3978953 | 0.0000000 | 0 |
| ## 877 | 2.3025851 | 0.0000000 | 0 |
| ## 878 | 0.6931472 | 1.0986123 | 45 |
| ## 879 | 0.6931472 | 0.0000000 | 0 |
| ## 880 | 1.6094379 | 2.0794415 | 0 |
| ## 881 | 2.1972246 | 0.6931472 | 0 |
| ## 882 | 2.8332133 | 0.0000000 | 0 |
| ## 883 | 1.6094379 | 0.0000000 | 0 |
| ## 886 | 2.8903718 | 0.0000000 | 0 |
| ## 887 | 2.5649494 | 0.0000000 | 0 |
| ## 888 | 0.6931472 | 2.0794415 | 0 |
| ## 889 | 2.4849066 | 1.6094379 | 0 |
| ## 890 | 0.6931472 | 2.0794415 | 0 |
| ## 891 | 3.0445224 | 1.6094379 | 0 |
| ## 893 | 2.3978953 | 0.0000000 | 0 |
| ## 894 | 2.4849066 | 1.7917595 | 0 |
| ## 896 | 1.9459101 | 2.0794415 | 0 |

| | | | |
|--------|-----------|-----------|-----|
| ## 897 | 1.9459101 | 2.0794415 | 0 |
| ## 898 | 2.5649494 | 0.0000000 | 0 |
| ## 899 | 2.1972246 | 0.0000000 | 82 |
| ## 900 | 0.6931472 | 0.6931472 | 0 |
| ## 901 | 1.6094379 | 2.1972246 | 0 |
| ## 902 | 0.6931472 | 0.0000000 | 0 |
| ## 905 | 2.8332133 | 0.0000000 | 40 |
| ## 906 | 2.0794415 | 0.0000000 | 0 |
| ## 907 | 2.1972246 | 0.6931472 | 0 |
| ## 908 | 1.9459101 | 0.6931472 | 0 |
| ## 909 | 2.7725887 | 0.0000000 | 0 |
| ## 910 | 1.9459101 | 0.0000000 | 0 |
| ## 912 | 1.9459101 | 0.0000000 | 0 |
| ## 913 | 0.6931472 | 0.0000000 | 132 |
| ## 915 | 0.6931472 | 1.9459101 | 0 |
| ## 916 | 2.3025851 | 2.1972246 | 0 |
| ## 917 | 2.4849066 | 0.0000000 | 0 |
| ## 918 | 1.9459101 | 0.6931472 | 0 |
| ## 919 | 1.7917595 | 0.0000000 | 0 |
| ## 920 | 1.7917595 | 0.0000000 | 0 |
| ## 921 | 0.6931472 | 0.0000000 | 0 |
| ## 924 | 2.3978953 | 0.0000000 | 0 |
| ## 925 | 0.6931472 | 1.9459101 | 72 |
| ## 926 | 0.6931472 | 1.7917595 | 0 |
| ## 927 | 2.0794415 | 1.6094379 | 42 |
| ## 928 | 1.9459101 | 1.0986123 | 0 |
| ## 929 | 2.6390573 | 1.6094379 | 0 |
| ## 931 | 0.6931472 | 0.0000000 | 0 |
| ## 932 | 1.9459101 | 1.9459101 | 0 |
| ## 934 | 2.8332133 | 2.0794415 | 114 |
| ## 935 | 1.9459101 | 2.3025851 | 0 |
| ## 936 | 0.6931472 | 0.6931472 | 88 |
| ## 937 | 0.6931472 | 0.0000000 | 0 |
| ## 938 | 1.9459101 | 0.6931472 | 0 |
| ## 939 | 0.6931472 | 1.3862944 | 114 |
| ## 940 | 0.6931472 | 0.0000000 | 45 |
| ## 943 | 0.6931472 | 0.0000000 | 0 |
| ## 944 | 0.6931472 | 2.1972246 | 0 |
| ## 945 | 2.1972246 | 0.0000000 | 0 |
| ## 946 | 0.6931472 | 1.0986123 | 0 |
| ## 947 | 0.6931472 | 1.7917595 | 0 |
| ## 948 | 1.7917595 | 0.0000000 | 0 |
| ## 950 | 0.6931472 | 1.3862944 | 180 |
| ## 951 | 2.6390573 | 0.0000000 | 0 |
| ## 953 | 2.5649494 | 1.0986123 | 0 |
| ## 954 | 2.9444390 | 1.3862944 | 43 |
| ## 955 | 2.0794415 | 0.0000000 | 0 |
| ## 956 | 2.3025851 | 2.1972246 | 0 |
| ## 957 | 2.3978953 | 1.3862944 | 0 |
| ## 958 | 2.9444390 | 1.0986123 | 0 |
| ## 959 | 2.1972246 | 0.0000000 | 0 |
| ## 962 | 2.1972246 | 1.0986123 | 40 |
| ## 963 | 2.4849066 | 0.0000000 | 0 |
| ## 964 | 0.6931472 | 1.3862944 | 0 |

| | | | |
|---------|-----------|-----------|-----|
| ## 965 | 0.6931472 | 0.0000000 | 43 |
| ## 966 | 2.1972246 | 2.3025851 | 0 |
| ## 967 | 1.7917595 | 0.6931472 | 0 |
| ## 969 | 2.3978953 | 1.0986123 | 0 |
| ## 970 | 0.6931472 | 2.0794415 | 0 |
| ## 972 | 2.4849066 | 2.0794415 | 0 |
| ## 973 | 0.6931472 | 1.0986123 | 0 |
| ## 974 | 2.0794415 | 0.0000000 | 0 |
| ## 975 | 2.4849066 | 1.3862944 | 0 |
| ## 976 | 1.9459101 | 1.9459101 | 0 |
| ## 977 | 2.7725887 | 0.6931472 | 0 |
| ## 978 | 2.1972246 | 1.3862944 | 42 |
| ## 981 | 2.3978953 | 0.0000000 | 0 |
| ## 982 | 0.6931472 | 1.7917595 | 0 |
| ## 983 | 0.6931472 | 0.0000000 | 0 |
| ## 984 | 0.6931472 | 0.0000000 | 0 |
| ## 985 | 2.7725887 | 0.0000000 | 0 |
| ## 986 | 2.8903718 | 1.3862944 | 0 |
| ## 988 | 0.6931472 | 0.0000000 | 0 |
| ## 989 | 0.6931472 | 0.0000000 | 0 |
| ## 991 | 0.6931472 | 0.0000000 | 90 |
| ## 992 | 2.1972246 | 1.0986123 | 74 |
| ## 993 | 0.6931472 | 0.0000000 | 0 |
| ## 994 | 2.0794415 | 2.0794415 | 0 |
| ## 995 | 2.3025851 | 0.0000000 | 0 |
| ## 996 | 0.6931472 | 0.0000000 | 0 |
| ## 997 | 0.6931472 | 1.3862944 | 0 |
| ## 1000 | 2.0794415 | 1.3862944 | 0 |
| ## 1001 | 1.9459101 | 0.6931472 | 0 |
| ## 1002 | 2.1972246 | 1.9459101 | 36 |
| ## 1003 | 0.6931472 | 1.3862944 | 129 |
| ## 1004 | 2.1972246 | 0.0000000 | 45 |
| ## 1005 | 0.6931472 | 0.0000000 | 0 |
| ## 1007 | 2.3025851 | 1.3862944 | 0 |
| ## 1008 | 0.6931472 | 0.6931472 | 0 |
| ## 1010 | 3.0445224 | 0.0000000 | 0 |
| ## 1011 | 2.5649494 | 1.6094379 | 0 |
| ## 1012 | 2.0794415 | 0.0000000 | 0 |
| ## 1013 | 2.0794415 | 0.0000000 | 0 |
| ## 1014 | 1.7917595 | 1.0986123 | 0 |
| ## 1015 | 2.3978953 | 1.0986123 | 0 |
| ## 1016 | 2.1972246 | 1.0986123 | 0 |
| ## 1019 | 2.4849066 | 0.0000000 | 0 |
| ## 1020 | 1.7917595 | 1.9459101 | 0 |
| ## 1021 | 0.6931472 | 1.3862944 | 0 |
| ## 1022 | 2.5649494 | 1.0986123 | 0 |
| ## 1023 | 2.3978953 | 0.6931472 | 0 |
| ## 1024 | 2.0794415 | 0.0000000 | 0 |
| ## 1026 | 2.7725887 | 0.0000000 | 0 |
| ## 1027 | 2.3978953 | 1.7917595 | 0 |
| ## 1029 | 2.3025851 | 1.6094379 | 0 |
| ## 1030 | 1.0986123 | 1.9459101 | 41 |
| ## 1031 | 2.3025851 | 1.0986123 | 0 |
| ## 1032 | 0.6931472 | 0.0000000 | 0 |

```

## 1033 2.0794415 0.0000000 0
## 1034 0.6931472 0.0000000 45
## 1035 0.6931472 2.3025851 0
## 1038 0.6931472 1.0986123 40
## 1039 2.5649494 1.6094379 0
## 1040 0.6931472 1.9459101 0
## 1041 0.6931472 1.6094379 0
## 1042 2.7725887 1.6094379 0
## 1043 2.9444390 1.3862944 0
## 1045 1.7917595 0.0000000 0
## 1046 2.8903718 2.1972246 48
## 1048 2.7080502 0.0000000 0
## 1049 2.5649494 0.0000000 0
## 1050 0.6931472 1.6094379 0
## 1051 2.4849066 2.3025851 0
## 1052 2.1972246 2.0794415 0
## 1053 2.3978953 0.0000000 0
## 1054 2.3978953 0.6931472 78
## 1057 0.6931472 1.6094379 0
## 1058 2.6390573 0.0000000 45
## 1059 2.0794415 1.7917595 0
## 1060 2.9957323 0.6931472 88
## 1061 2.3978953 0.0000000 0
## 1062 0.6931472 0.0000000 0
## 1064 1.9459101 1.6094379 0
## 1065 1.7917595 0.0000000 0
## 1067 2.4849066 1.7917595 42
## 1068 1.9459101 0.0000000 0
## 1069 2.6390573 1.9459101 0
## 1070 2.7080502 0.0000000 0
## 1071 2.7725887 0.0000000 159
## 1072 2.7725887 0.0000000 0
## 1073 2.9957323 1.0986123 0
## 1076 2.0794415 1.3862944 0
## 1077 0.6931472 1.6094379 74
## 1078 0.6931472 0.0000000 0
## 1079 2.4849066 1.7917595 42
## 1080 0.6931472 0.6931472 0
## 1081 1.9459101 0.6931472 0
## 1083 0.6931472 1.0986123 0
## 1084 2.3025851 0.0000000 0
## 1086 0.6931472 1.0986123 0
## 1087 2.3025851 1.6094379 0
## 1088 2.5649494 0.0000000 0
## 1089 2.7725887 1.0986123 0
## 1090 2.1972246 0.0000000 0
## 1091 2.5649494 1.7917595 0
## 1092 0.6931472 1.7917595 0
## 1095 0.6931472 0.0000000 0
## 1096 2.4849066 0.0000000 0
## 1097 0.6931472 1.0986123 0
## 1098 2.7725887 0.0000000 37
## 1099 2.9444390 0.0000000 0
## 1100 2.7725887 2.3025851 58

```

```

## 1102 2.8903718 1.6094379 0
## 1103 0.6931472 1.3862944 0
## 1105 0.6931472 1.0986123 74
## 1106 1.9459101 1.0986123 0
## 1107 2.8903718 1.3862944 0
## 1108 2.7080502 1.0986123 0
## 1109 2.0794415 2.0794415 0
## 1110 2.5649494 1.7917595 0
## 1111 2.3978953 1.3862944 0
## 1114 2.1972246 1.6094379 0
## 1115 0.6931472 0.6931472 0
## 1116 0.6931472 1.9459101 0
## 1117 2.3978953 2.4849066 0
## 1118 2.1972246 0.0000000 0
## 1119 0.6931472 0.0000000 0
## 1121 1.6094379 0.0000000 0
## 1122 0.6931472 1.3862944 0
## 1124 0.6931472 1.6094379 0
## 1125 2.3025851 0.0000000 0
## 1126 2.3978953 0.0000000 0
## 1127 2.3978953 1.9459101 0
## 1128 2.8332133 1.9459101 0
## 1129 2.9957323 1.3862944 0
## 1130 2.7080502 1.0986123 0
## 1133 2.4849066 1.6094379 0
## 1134 0.6931472 1.0986123 0
## 1135 2.0794415 0.0000000 43
## 1136 2.8903718 1.6094379 0
## 1137 2.3025851 2.3025851 36
## 1138 2.3025851 0.6931472 44
## 1140 1.7917595 0.0000000 0
## 1141 0.6931472 0.0000000 0
## 1143 2.3978953 1.0986123 0
## 1144 0.6931472 0.6931472 0
## 1145 2.8332133 0.6931472 0
## 1146 2.6390573 1.3862944 40
## 1147 1.7917595 1.6094379 0
## 1148 0.6931472 0.6931472 0
## 1149 2.3978953 1.3862944 46
## 1152 0.6931472 1.7917595 0
## 1153 2.0794415 1.3862944 0
## 1154 2.8903718 1.9459101 41
## 1155 2.0794415 0.0000000 0
## 1156 0.6931472 1.6094379 0
## 1157 2.0794415 0.0000000 0
## 1159 2.4849066 1.3862944 0
## 1160 0.6931472 1.3862944 0
## 1162 2.4849066 0.0000000 45
## 1163 0.6931472 1.7917595 0
## 1164 2.6390573 0.0000000 0
## 1165 2.3978953 1.9459101 41
## 1166 0.6931472 1.0986123 0
## 1167 2.3025851 1.3862944 0
## 1168 2.7080502 1.3862944 42

```

```

## 1171 2.3025851 1.0986123 0
## 1172 1.7917595 1.3862944 0
## 1173 0.6931472 1.6094379 0
## 1174 0.6931472 0.0000000 0
## 1175 0.6931472 2.0794415 0
## 1176 2.9957323 0.0000000 0
## 1178 0.6931472 2.1972246 0
## 1179 0.6931472 0.0000000 45
## 1181 2.9444390 0.0000000 0
## 1182 2.1972246 0.6931472 0
## 1183 0.6931472 0.0000000 0
## 1184 1.7917595 1.6094379 0
## 1185 1.7917595 0.6931472 0
## 1186 2.9444390 0.6931472 116
## 1187 0.6931472 2.3025851 0
## 1190 2.5649494 0.0000000 0
## 1191 1.3862944 2.1972246 44
## 1192 0.6931472 0.6931472 0
## 1193 2.0794415 0.6931472 0
## 1194 2.3978953 1.6094379 84
## 1195 2.5649494 1.6094379 0
## 1197 0.6931472 0.6931472 0
## 1198 0.6931472 1.6094379 53
## 1200 2.4849066 1.3862944 0
## 1201 0.6931472 0.6931472 38
## 1202 0.6931472 2.0794415 0
## 1203 2.5649494 0.0000000 0
## 1204 0.6931472 1.3862944 0
## 1205 0.6931472 1.6094379 0
## 1206 0.6931472 1.3862944 0
## 1209 1.9459101 0.6931472 0
## 1210 1.7917595 0.6931472 0
## 1211 0.6931472 0.0000000 0
## 1212 2.8903718 0.0000000 0
## 1213 2.4849066 0.0000000 0
## 1214 1.9459101 1.3862944 0
## 1216 0.6931472 1.3862944 0
## 1217 2.7080502 0.0000000 0
## 1219 1.3862944 1.6094379 0
## 1220 0.6931472 1.0986123 0
## 1221 2.3025851 0.6931472 0
## 1222 0.6931472 2.0794415 0
## 1223 2.0794415 0.0000000 78
## 1224 2.1972246 0.6931472 0
## 1225 1.7917595 0.0000000 0
## 1228 0.6931472 1.6094379 0
## 1229 2.1972246 1.6094379 0
## 1230 0.6931472 0.0000000 0
## 1231 2.0794415 1.3862944 0
## 1232 2.9444390 0.0000000 41
## 1233 2.1972246 0.0000000 0
## 1235 0.6931472 0.0000000 0
## 1236 0.6931472 0.0000000 0
## 1238 2.0794415 1.0986123 0

```

```

## 1239 2.1972246 0.0000000 0
## 1240 2.6390573 0.0000000 0
## 1241 1.6094379 0.6931472 0
## 1242 2.3978953 1.6094379 0
## 1243 2.7080502 1.9459101 0
## 1244 0.6931472 1.0986123 0
## 1247 0.6931472 2.0794415 0
## 1248 1.7917595 0.0000000 0
## 1249 0.6931472 2.0794415 0
## 1250 2.9444390 1.6094379 41
## 1251 2.3025851 1.6094379 0
## 1252 2.7080502 1.3862944 0
## 1254 1.9459101 1.0986123 0
## 1255 2.0794415 1.3862944 0
## 1257 2.1972246 1.6094379 41
## 1258 0.6931472 1.9459101 0
## 1259 2.5649494 0.6931472 74
## 1260 2.5649494 0.0000000 0
## 1261 0.6931472 1.0986123 0
## 1262 0.6931472 2.0794415 0
## 1263 2.0794415 1.0986123 0
## 1266 2.6390573 1.3862944 0
## 1267 2.3978953 0.6931472 0
## 1268 2.5649494 0.0000000 0
## 1269 2.4849066 0.6931472 0
## 1270 1.9459101 0.0000000 0
## 1271 2.8903718 0.6931472 54
## 1273 0.6931472 1.6094379 0
## 1274 2.5649494 1.3862944 0
## 1276 2.7725887 0.0000000 0
## 1277 3.0910425 1.6094379 0
## 1278 2.0794415 1.6094379 0
## 1279 2.1972246 0.0000000 0
## 1280 2.8903718 0.0000000 0
## 1281 0.6931472 0.0000000 0
## 1282 2.3978953 1.7917595 0
## 1285 1.7917595 0.6931472 60
## 1286 0.6931472 1.6094379 0
## 1287 2.3025851 0.0000000 0
## 1288 0.6931472 2.3025851 0
## 1289 2.1972246 1.0986123 0
## 1290 0.6931472 1.0986123 0
## 1292 2.1972246 1.6094379 0
## 1293 2.3025851 1.0986123 0
## 1295 2.0794415 1.0986123 0
## 1296 2.7080502 1.0986123 0
## 1297 0.6931472 0.6931472 122
## 1298 2.1972246 0.0000000 0
## 1299 2.9957323 0.0000000 0
## 1300 0.6931472 2.4849066 43
## 1301 2.5649494 1.6094379 0
## 1304 2.5649494 0.0000000 0
## 1305 2.3978953 1.3862944 45
## 1306 2.3025851 1.7917595 0

```

```

## 1307 2.7080502 0.0000000 0
## 1308 1.7917595 1.0986123 0
## 1309 0.6931472 0.0000000 0
## 1311 2.0794415 1.0986123 0
## 1312 1.7917595 0.0000000 0
## 1314 1.7917595 1.6094379 0
## 1315 2.3025851 1.0986123 0
## 1316 2.5649494 1.7917595 0
## 1317 2.3025851 0.6931472 0
## 1318 0.6931472 0.0000000 0
## 1319 1.7917595 0.0000000 0
## 1320 2.7725887 1.9459101 0
## 1323 1.9459101 1.6094379 0
## 1324 2.0794415 0.6931472 88
## 1325 2.3025851 0.0000000 0
## 1326 2.3025851 1.0986123 78
## 1327 0.6931472 0.6931472 0
## 1328 2.9444390 0.0000000 40
## 1330 0.6931472 1.0986123 0
## 1331 1.9459101 0.0000000 44
## 1333 0.6931472 0.0000000 0
## 1334 0.6931472 1.9459101 0
## 1335 2.3978953 0.6931472 0
## 1336 2.1972246 2.0794415 0
## 1337 2.1972246 2.3025851 0
## 1338 2.1972246 0.0000000 0
## 1339 1.7917595 1.7917595 0
## 1342 1.6094379 1.3862944 0
## 1343 2.7080502 2.4849066 0
## 1344 2.1972246 0.0000000 0
## 1345 2.8332133 0.0000000 0
## 1346 2.3025851 0.0000000 0
## 1347 0.6931472 0.6931472 43
## 1349 0.6931472 0.0000000 0
## 1350 2.3978953 0.0000000 0
## 1352 1.6094379 0.6931472 0
## 1353 1.6094379 0.0000000 38
## 1354 0.6931472 2.0794415 0
## 1355 0.6931472 1.0986123 0
## 1356 0.6931472 1.0986123 74
## 1357 0.6931472 0.0000000 0
## 1358 0.6931472 0.0000000 0
## 1361 0.6931472 1.3862944 78
## 1362 2.0794415 0.6931472 0
## 1363 0.6931472 2.0794415 0
## 1364 2.4849066 0.0000000 0
## 1365 2.1972246 1.6094379 0
## 1366 2.7080502 1.3862944 0
## 1368 2.4849066 2.1972246 44
## 1369 0.6931472 1.0986123 0
## 1371 2.0794415 0.0000000 0
## 1372 2.8332133 2.0794415 0
## 1373 2.3025851 0.0000000 0
## 1374 0.6931472 2.1972246 0

```

```

## 1375 2.4849066 2.1972246 0
## 1376 2.7725887 0.0000000 0
## 1377 0.6931472 1.7917595 120
## 1380 1.9459101 1.3862944 44
## 1381 2.6390573 1.3862944 0
## 1382 0.6931472 1.0986123 0
## 1383 2.6390573 0.0000000 0
## 1384 1.9459101 1.6094379 40
## 1385 2.3025851 1.3862944 0
## 1387 2.7725887 0.0000000 0
## 1388 1.7917595 2.3978953 38
## 1390 2.3978953 2.3025851 0
## 1391 0.6931472 1.7917595 76
## 1392 0.6931472 0.0000000 0
## 1393 2.9957323 2.0794415 0
## 1394 2.7725887 0.6931472 0
## 1395 0.6931472 0.6931472 0
## 1396 2.3978953 0.0000000 0
## 1399 2.3025851 2.0794415 0
## 1400 2.3978953 0.0000000 0
## 1401 1.9459101 0.0000000 38
## 1402 0.6931472 1.6094379 0
## 1403 2.9957323 1.6094379 72
## 1404 2.7080502 1.3862944 0
## 1406 0.6931472 0.0000000 38
## 1407 2.3978953 1.7917595 43
## 1409 0.6931472 0.6931472 0
## 1410 0.6931472 0.0000000 0
## 1411 2.5649494 1.0986123 0
## 1412 2.1972246 0.0000000 0
## 1413 2.6390573 0.0000000 0
## 1414 2.3978953 0.0000000 0
## 1415 2.1972246 0.0000000 0
## 1418 2.1972246 1.6094379 45
## 1419 0.6931472 0.0000000 0
## 1420 0.6931472 0.6931472 0
## 1421 1.3862944 1.0986123 0
## 1422 3.0445224 0.0000000 0
## 1423 2.9444390 1.3862944 0
## 1425 2.3025851 1.3862944 37
## 1426 1.9459101 1.6094379 0
## 1428 1.3862944 1.6094379 0
## 1429 1.3862944 1.9459101 0
## 1430 0.6931472 0.6931472 0
## 1431 2.3025851 1.6094379 0
## 1432 2.3025851 0.6931472 0
## 1433 0.6931472 1.7917595 0
## 1434 2.0794415 0.0000000 56
## 1437 1.9459101 1.0986123 0
## 1438 1.6094379 1.0986123 0
## 1439 2.1972246 2.0794415 0
## 1440 2.7725887 1.0986123 0
## 1441 2.3978953 0.6931472 0
## 1442 1.9459101 0.0000000 0

```

```

## 1444 2.3025851 1.6094379 0
## 1445 2.8332133 1.0986123 0
## 1447 2.9444390 1.6094379 0
## 1448 0.6931472 2.1972246 0
## 1449 2.3978953 0.0000000 0
## 1450 2.3978953 1.7917595 0
## 1451 2.3025851 1.0986123 0
## 1452 2.7080502 0.0000000 0
## 1453 0.6931472 1.3862944 0
## 1456 2.3978953 2.0794415 0
## 1457 2.1972246 0.6931472 0
## 1458 2.0794415 1.3862944 0
## 1459 2.3978953 1.7917595 0
## 1460 2.0794415 2.0794415 0
## 1461 2.0794415 1.7917595 0
## 1463 2.8903718 1.3862944 82
## 1464 3.0445224 1.0986123 48
## 1466 2.0794415 1.3862944 0
## 1467 0.6931472 0.6931472 0
## 1468 0.6931472 0.0000000 90
## 1469 0.6931472 1.6094379 0
## 1470 2.7080502 1.7917595 48
## 1471 2.6390573 0.0000000 0
## 1472 1.9459101 0.0000000 0
## 1475 2.1972246 0.0000000 86
## 1476 0.6931472 1.0986123 0
## 1477 1.6094379 1.6094379 0
## 1478 0.6931472 2.1972246 0
## 1479 0.6931472 1.9459101 0
## 1480 2.3978953 0.0000000 0
## 1482 2.7080502 1.9459101 0
## 1483 2.1972246 0.0000000 0
## 1485 0.6931472 0.0000000 78
## 1486 2.8903718 1.3862944 0
## 1487 0.6931472 1.0986123 80
## 1488 2.0794415 1.0986123 0
## 1489 3.1354942 1.3862944 116
## 1490 2.1972246 1.0986123 41
## 1491 0.6931472 1.0986123 0
## 1494 2.4849066 0.6931472 0
## 1495 2.5649494 2.0794415 50
## 1496 0.6931472 0.0000000 0
## 1497 2.6390573 1.7917595 0
## 1498 2.5649494 0.0000000 0
## 1499 1.7917595 0.6931472 0
## 1501 0.6931472 1.0986123 0
## 1502 0.6931472 1.3862944 0
## 1504 2.3978953 0.0000000 0
## 1505 2.3025851 1.7917595 84
## 1506 0.6931472 1.9459101 40
## 1507 2.0794415 0.0000000 0
## 1508 2.6390573 1.9459101 0
## 1509 1.3862944 1.6094379 0
## 1510 2.8903718 1.0986123 0

```

```

## 1513 1.9459101 0.0000000 0
## 1514 2.0794415 1.0986123 0
## 1515 2.9957323 0.6931472 0
## 1516 0.6931472 2.1972246 0
## 1517 2.1972246 1.0986123 84
## 1518 0.6931472 0.0000000 0
## 1520 2.7080502 0.0000000 0
## 1521 2.3025851 0.0000000 0
## 1523 2.3978953 0.0000000 0
## 1524 0.6931472 0.0000000 0
## 1525 2.0794415 1.3862944 0
## 1526 2.8332133 0.0000000 44
## 1527 0.6931472 0.0000000 45
## 1528 0.6931472 0.0000000 0
## 1529 1.7917595 1.6094379 38
## 1532 2.1972246 2.0794415 0
## 1533 0.6931472 1.6094379 37
## 1534 1.6094379 1.3862944 0
## 1535 0.6931472 0.6931472 0
## 1536 0.6931472 1.9459101 0
## 1537 0.6931472 1.0986123 0
## 1539 2.4849066 1.9459101 0
## 1540 2.3978953 1.3862944 0
## 1542 2.3025851 1.7917595 0
## 1543 2.3025851 1.3862944 0
## 1544 2.0794415 1.7917595 0
## 1545 0.6931472 2.3978953 0
## 1546 2.0794415 1.0986123 0
## 1547 1.7917595 0.0000000 0
## 1548 1.7917595 2.1972246 0
## 1551 2.6390573 0.0000000 0
## 1552 2.4849066 1.6094379 56
## 1553 2.3025851 2.0794415 74
## 1554 0.6931472 0.0000000 0
## 1555 3.1354942 0.0000000 0
## 1556 2.5649494 0.6931472 0
## 1558 2.4849066 2.3025851 123
## 1559 0.6931472 1.7917595 129
## 1561 1.7917595 1.7917595 0
## 1562 1.7917595 1.6094379 0
## 1563 0.6931472 0.6931472 80
## 1564 2.8332133 0.6931472 0
## 1565 2.3978953 1.0986123 80
## 1566 0.6931472 2.3025851 0
## 1567 2.5649494 1.6094379 0
## 1570 0.6931472 2.0794415 0
## 1571 2.0794415 0.6931472 0
## 1572 2.7725887 1.3862944 0
## 1573 2.0794415 1.0986123 108
## 1574 1.9459101 1.3862944 0
## 1575 3.0445224 0.6931472 0
## 1577 0.6931472 0.0000000 0
## 1578 2.3025851 1.7917595 0
## 1580 0.6931472 0.0000000 43

```

```

## 1581 2.5649494 1.3862944 0
## 1582 2.8332133 1.9459101 43
## 1583 0.6931472 1.3862944 0
## 1584 1.9459101 1.6094379 0
## 1585 2.0794415 2.1972246 88
## 1586 2.9444390 2.0794415 0
## 1589 0.6931472 1.6094379 0
## 1590 2.6390573 0.0000000 0
## 1591 2.4849066 0.6931472 0
## 1592 1.9459101 2.0794415 0
## 1593 0.6931472 1.0986123 0
## 1594 2.1972246 1.7917595 39
## 1596 2.5649494 0.0000000 0
## 1597 1.7917595 0.6931472 0
## 1599 1.7917595 0.0000000 0
## 1600 2.1972246 0.0000000 0
## 1601 2.1972246 1.3862944 0
## 1602 2.8332133 0.6931472 0
## 1603 0.6931472 0.0000000 0
## 1604 0.6931472 1.9459101 0
## 1605 2.1972246 2.1972246 0
## 1608 0.6931472 0.0000000 0
## 1609 0.6931472 1.3862944 0
## 1610 2.9957323 1.9459101 36
## 1611 0.6931472 0.0000000 0
## 1612 0.6931472 0.0000000 0
## 1613 0.6931472 1.3862944 82
## 1615 2.3025851 1.6094379 0
## 1616 1.3862944 1.6094379 0
## 1618 1.9459101 0.0000000 0
## 1619 0.6931472 2.4849066 0
## 1620 1.9459101 0.0000000 0
## 1621 0.6931472 0.0000000 39
## 1622 2.8903718 0.0000000 0
## 1623 2.1972246 0.6931472 0
## 1624 0.6931472 0.0000000 0
## 1627 0.6931472 0.6931472 0
## 1628 2.6390573 0.0000000 0
## 1629 1.9459101 0.0000000 0
## 1630 0.6931472 1.6094379 0
## 1631 2.8903718 0.0000000 0
## 1632 2.0794415 0.0000000 0
## 1634 1.9459101 1.0986123 0
## 1635 2.1972246 1.6094379 126
## 1637 2.6390573 0.0000000 0
## 1638 2.0794415 1.6094379 40
## 1639 0.6931472 0.6931472 0
## 1640 2.3025851 1.9459101 0
## 1641 1.9459101 0.0000000 0
## 1642 2.9444390 0.0000000 41
## 1643 2.3978953 0.6931472 0
## 1646 2.3978953 0.6931472 0
## 1647 1.6094379 0.6931472 0
## 1648 2.3025851 1.0986123 0

```

```

## 1649 2.3025851 0.0000000 0
## 1650 2.1972246 0.0000000 0
## 1651 1.9459101 0.0000000 43
## 1653 1.9459101 1.0986123 0
## 1654 2.3025851 1.9459101 45
## 1656 1.9459101 0.0000000 0
## 1657 2.8332133 2.3025851 0
## 1658 0.6931472 2.1972246 0
## 1659 0.6931472 1.7917595 0
## 1660 2.3978953 0.0000000 135
## 1661 2.0794415 1.6094379 0
## 1662 2.3978953 1.6094379 0
## 1665 2.1972246 0.0000000 56
## 1666 2.8332133 0.6931472 0
## 1667 2.0794415 1.6094379 40
## 1668 2.5649494 1.0986123 45
## 1669 2.0794415 0.6931472 0
## 1670 2.6390573 1.3862944 0
## 1672 0.6931472 1.0986123 0
## 1673 2.7080502 1.6094379 43
## 1675 2.3025851 0.0000000 0
## 1676 1.9459101 0.6931472 38
## 1677 1.3862944 1.6094379 0
## 1678 0.6931472 2.0794415 0
## 1679 0.6931472 0.0000000 0
## 1680 0.6931472 1.0986123 0
## 1681 2.3025851 0.6931472 0
## 1684 0.6931472 1.0986123 0
## 1685 1.9459101 0.0000000 0
## 1686 2.0794415 0.6931472 0
## 1687 0.6931472 0.6931472 0
## 1688 2.7725887 0.0000000 0
## 1689 2.3025851 0.6931472 0
## 1691 0.6931472 0.0000000 0
## 1692 0.6931472 1.6094379 0
## 1694 0.6931472 1.6094379 44
## 1695 2.0794415 0.0000000 0
## 1696 2.0794415 1.9459101 0
## 1697 2.5649494 0.0000000 0
## 1698 2.7080502 1.6094379 42
## 1699 2.3025851 2.0794415 0
## 1700 1.7917595 1.6094379 88
## 1703 1.9459101 0.0000000 0
## 1704 0.6931472 0.0000000 0
## 1705 2.1972246 1.3862944 0
## 1706 2.3978953 0.0000000 0
## 1707 2.4849066 0.0000000 53
## 1708 0.6931472 1.0986123 0
## 1710 2.8903718 0.6931472 124
## 1711 3.0445224 1.0986123 48
## 1713 0.6931472 1.3862944 0
## 1714 2.9957323 1.7917595 44
## 1715 0.6931472 0.0000000 0
## 1716 0.6931472 0.0000000 0

```

```

## 1717 0.6931472 1.6094379 0
## 1718 1.7917595 1.6094379 0
## 1719 2.0794415 0.0000000 0
## 1722 2.1972246 1.3862944 0
## 1723 0.6931472 1.0986123 0
## 1724 0.6931472 0.0000000 0
## 1725 2.3025851 1.0986123 0
## 1726 2.0794415 0.0000000 0
## 1727 2.9957323 1.3862944 0
## 1729 0.6931472 1.6094379 0
## 1730 2.6390573 1.6094379 0
## 1732 2.3025851 0.0000000 0
## 1733 2.4849066 0.0000000 0
## 1734 1.7917595 0.0000000 0
## 1735 2.5649494 1.7917595 0
## 1736 0.6931472 1.3862944 0
## 1737 2.4849066 0.0000000 0
## 1738 2.5649494 1.6094379 37
## 1741 0.6931472 1.9459101 0
## 1742 2.1972246 1.0986123 134
## 1743 2.5649494 2.0794415 0
## 1744 0.6931472 2.3025851 0
## 1745 2.5649494 0.0000000 0
## 1746 1.9459101 1.7917595 0
## 1748 2.0794415 1.3862944 0
## 1749 2.1972246 0.0000000 0
## 1751 0.6931472 0.0000000 80
## 1752 0.6931472 0.0000000 0
## 1753 0.6931472 1.3862944 0
## 1754 2.3025851 0.6931472 0
## 1755 2.6390573 0.6931472 0
## 1756 0.6931472 1.7917595 0
## 1757 2.1972246 0.6931472 0
## 1760 0.6931472 1.0986123 0
## 1761 2.3025851 1.9459101 0
## 1762 1.9459101 2.0794415 0
## 1763 2.9957323 1.0986123 56
## 1764 1.9459101 0.0000000 0
## 1765 0.6931472 1.6094379 0
## 1767 1.9459101 0.0000000 0
## 1768 0.6931472 1.3862944 117
## 1770 2.3978953 0.0000000 0
## 1771 2.3978953 1.3862944 0
## 1772 1.9459101 1.9459101 0
## 1773 2.1972246 1.0986123 0
## 1774 2.3978953 1.0986123 0
## 1775 0.6931472 1.3862944 0
## 1776 0.6931472 1.3862944 0
## 1779 2.7080502 0.0000000 0
## 1780 2.9444390 0.6931472 40
## 1781 0.6931472 0.0000000 72
## 1782 1.9459101 1.7917595 0
## 1783 2.3025851 1.0986123 0
## 1784 3.0445224 1.0986123 78

```

```

## 1786 1.6094379 0.0000000 43
## 1787 2.4849066 1.9459101 0
## 1789 2.4849066 0.0000000 0
## 1790 2.0794415 1.6094379 0
## 1791 2.9444390 0.6931472 0
## 1792 0.6931472 1.3862944 0
## 1793 2.9957323 1.0986123 63
## 1794 2.7080502 0.0000000 0
## 1795 0.6931472 1.6094379 0
## 1798 2.5649494 0.0000000 0
## 1799 0.6931472 0.6931472 0
## 1800 0.6931472 0.0000000 114
## 1801 2.1972246 0.0000000 0
## 1802 2.5649494 0.6931472 0
## 1803 0.6931472 1.6094379 0
## 1805 0.6931472 1.3862944 0
## 1806 0.6931472 1.7917595 0
## 1808 2.4849066 1.3862944 0
## 1809 1.6094379 1.7917595 0
## 1810 2.9957323 1.3862944 138
## 1811 0.6931472 1.6094379 0
## 1812 2.8332133 0.0000000 0
## 1813 2.3025851 1.3862944 0
## 1814 2.8903718 1.3862944 0
## 1817 1.7917595 2.0794415 0
## 1818 0.6931472 1.3862944 0
## 1819 2.0794415 0.0000000 0
## 1820 0.6931472 0.6931472 0
## 1821 2.3025851 0.6931472 0
## 1822 0.6931472 0.0000000 0
## 1824 0.6931472 1.0986123 46
## 1825 2.3978953 0.0000000 0
## 1828 2.0794415 0.0000000 0
## 1829 2.0794415 0.6931472 0
## 1830 0.6931472 0.0000000 0
## 1831 0.6931472 1.7917595 37
## 1832 0.6931472 0.6931472 0
## 1833 0.6931472 1.0986123 88
## 1834 0.6931472 0.0000000 0
## 1837 2.3025851 1.3862944 0
## 1838 2.0794415 2.1972246 0
## 1839 0.6931472 1.3862944 0
## 1840 2.0794415 0.6931472 0
## 1841 0.6931472 1.9459101 0
## 1842 2.0794415 1.9459101 0
## 1844 0.6931472 1.9459101 0
## 1845 2.0794415 0.6931472 88
## 1847 2.3025851 1.3862944 0
## 1848 2.5649494 0.0000000 90
## 1849 0.6931472 2.4849066 0
## 1850 2.0794415 0.6931472 43
## 1851 0.6931472 0.0000000 0
## 1852 2.1972246 1.0986123 0
## 1853 2.3025851 1.7917595 0

```

```

## 1856 2.4849066 0.0000000 0
## 1857 1.0986123 1.3862944 0
## 1858 1.9459101 0.0000000 0
## 1859 2.7725887 1.0986123 72
## 1860 1.6094379 0.6931472 124
## 1861 0.6931472 0.0000000 0
## 1863 2.3025851 1.3862944 0
## 1864 0.6931472 0.0000000 0
## 1866 2.4849066 2.3025851 0
## 1867 0.6931472 1.3862944 0
## 1868 2.6390573 0.0000000 0
## 1869 2.3978953 1.0986123 38
## 1870 2.3978953 1.6094379 0
## 1871 2.9957323 1.3862944 90
## 1872 2.3978953 0.6931472 0
## 1875 0.6931472 1.0986123 0
## 1876 3.0910425 1.0986123 0
## 1877 2.0794415 0.0000000 0
## 1878 1.9459101 0.6931472 0
## 1879 2.3978953 0.0000000 0
## 1880 2.3025851 0.0000000 0
## 1882 0.6931472 0.0000000 0
## 1883 2.3978953 0.0000000 0
## 1885 2.1972246 1.0986123 0
## 1886 1.9459101 2.0794415 0
## 1887 2.6390573 0.0000000 40
## 1888 2.8332133 0.6931472 0
## 1889 1.9459101 0.6931472 88
## 1890 2.3025851 1.0986123 0
## 1891 2.3978953 1.6094379 0
## 1894 2.0794415 0.0000000 0
## 1895 2.6390573 1.0986123 0
## 1896 2.7725887 2.1972246 0
## 1897 0.6931472 1.0986123 0
## 1898 0.6931472 1.3862944 0
## 1899 0.6931472 2.3978953 0
## 1901 2.1972246 0.0000000 36
## 1902 2.3025851 0.0000000 0
## 1904 1.7917595 0.0000000 0
## 1905 0.6931472 1.3862944 0
## 1906 2.0794415 1.0986123 0
## 1907 0.6931472 0.0000000 0
## 1908 2.5649494 1.0986123 0
## 1909 2.3025851 2.0794415 0
## 1910 2.4849066 0.0000000 0
## 1913 0.6931472 2.0794415 0
## 1914 1.9459101 0.0000000 0
## 1915 1.9459101 0.0000000 0
## 1916 1.9459101 1.6094379 0
## 1917 2.9444390 0.0000000 0
## 1918 2.7080502 2.0794415 0
## 1920 2.1972246 1.0986123 0
## 1921 2.1972246 1.3862944 0
## 1923 2.4849066 1.0986123 0

```

| | | | |
|---------|-----------|-----------|----|
| ## 1924 | 2.4849066 | 1.6094379 | 0 |
| ## 1925 | 1.7917595 | 0.0000000 | 0 |
| ## 1926 | 1.9459101 | 1.6094379 | 0 |
| ## 1927 | 2.8903718 | 0.0000000 | 0 |
| ## 1928 | 2.3978953 | 2.0794415 | 0 |
| ## 1929 | 1.9459101 | 1.9459101 | 43 |
| ## 1932 | 0.6931472 | 0.0000000 | 0 |
| ## 1933 | 2.1972246 | 0.0000000 | 0 |
| ## 1934 | 0.6931472 | 0.6931472 | 44 |
| ## 1935 | 0.6931472 | 1.3862944 | 0 |
| ## 1936 | 0.6931472 | 0.6931472 | 0 |
| ## 1937 | 2.1972246 | 0.0000000 | 0 |
| ## 1939 | 0.6931472 | 0.6931472 | 0 |
| ## 1940 | 1.9459101 | 1.0986123 | 43 |
| ## 1942 | 2.9957323 | 1.6094379 | 0 |
| ## 1943 | 2.4849066 | 1.7917595 | 0 |
| ## 1944 | 0.6931472 | 0.0000000 | 0 |
| ## 1945 | 0.6931472 | 0.0000000 | 0 |
| ## 1946 | 0.6931472 | 0.0000000 | 0 |
| ## 1947 | 2.4849066 | 0.0000000 | 0 |
| ## 1948 | 2.3025851 | 0.6931472 | 0 |
| ## 1951 | 2.9444390 | 1.9459101 | 0 |
| ## 1952 | 2.6390573 | 1.9459101 | 37 |
| ## 1953 | 0.6931472 | 0.6931472 | 0 |
| ## 1954 | 2.3978953 | 1.3862944 | 58 |
| ## 1955 | 2.7725887 | 0.0000000 | 0 |
| ## 1956 | 0.6931472 | 1.0986123 | 0 |
| ## 1958 | 0.6931472 | 0.0000000 | 0 |
| ## 1959 | 2.0794415 | 1.7917595 | 0 |
| ## 1961 | 0.6931472 | 0.0000000 | 0 |
| ## 1962 | 2.1972246 | 0.0000000 | 0 |
| ## 1963 | 2.4849066 | 0.0000000 | 41 |
| ## 1964 | 2.3025851 | 1.9459101 | 0 |
| ## 1965 | 0.6931472 | 0.0000000 | 41 |
| ## 1966 | 0.6931472 | 0.0000000 | 0 |
| ## 1967 | 0.6931472 | 1.3862944 | 51 |
| ## 1970 | 2.7725887 | 1.3862944 | 0 |
| ## 1971 | 2.5649494 | 1.0986123 | 0 |
| ## 1972 | 2.4849066 | 1.7917595 | 0 |
| ## 1973 | 1.7917595 | 1.9459101 | 0 |
| ## 1974 | 1.9459101 | 1.3862944 | 0 |
| ## 1975 | 0.6931472 | 0.6931472 | 0 |
| ## 1977 | 0.6931472 | 1.6094379 | 38 |
| ## 1978 | 2.3025851 | 1.6094379 | 0 |
| ## 1980 | 2.3978953 | 0.0000000 | 0 |
| ## 1981 | 1.3862944 | 1.0986123 | 0 |
| ## 1982 | 2.3978953 | 0.0000000 | 0 |
| ## 1983 | 0.6931472 | 1.0986123 | 0 |
| ## 1984 | 2.3978953 | 1.6094379 | 0 |
| ## 1985 | 0.6931472 | 2.3025851 | 0 |
| ## 1986 | 1.9459101 | 1.6094379 | 0 |
| ## 1989 | 1.9459101 | 1.9459101 | 0 |
| ## 1990 | 0.6931472 | 0.0000000 | 41 |
| ## 1991 | 0.6931472 | 1.7917595 | 0 |

```

## 1992 2.5649494 0.0000000 92
## 1993 2.1972246 0.0000000 0
## 1994 2.7725887 1.9459101 0
## 1996 2.3978953 0.6931472 0
## 1997 1.7917595 0.0000000 0
## 1999 0.6931472 1.0986123 0
## 2000 2.8903718 1.0986123 0
## 2001 2.4849066 0.6931472 0
## 2002 2.1972246 0.0000000 0
## 2003 3.0910425 0.0000000 0
## 2004 2.6390573 1.9459101 0
## 2005 2.8903718 0.0000000 0
## 2008 1.9459101 0.0000000 0
## 2009 2.8903718 0.0000000 0
## 2010 2.1972246 0.6931472 45
## 2011 0.6931472 2.0794415 0
## 2012 0.6931472 1.6094379 0
## 2013 0.6931472 0.6931472 0
## 2015 2.3025851 1.6094379 0
## 2016 2.1972246 0.0000000 0
## 2018 2.0794415 1.6094379 0
## 2019 0.6931472 0.0000000 42
## 2020 0.6931472 0.0000000 186
## 2021 2.1972246 1.3862944 0
## 2022 2.3025851 0.0000000 0
## 2023 2.3025851 0.0000000 0
## 2024 0.6931472 0.0000000 0
## 2027 2.8332133 0.0000000 0
## 2028 2.0794415 0.0000000 0
## 2029 2.6390573 1.7917595 0
## 2030 0.6931472 0.0000000 0
## 2031 2.7725887 1.7917595 0
## 2032 2.1972246 1.6094379 0
## 2034 0.6931472 1.3862944 0
## 2035 2.3025851 1.0986123 76
## 2037 0.6931472 1.3862944 0
## 2038 1.3862944 2.0794415 0
## 2039 2.1972246 2.1972246 0
## 2040 2.7725887 1.3862944 0
## 2041 1.6094379 1.6094379 86
## 2042 0.6931472 0.0000000 0
## 2043 2.4849066 1.0986123 0
## 2046 0.6931472 1.6094379 0
## 2047 0.6931472 2.0794415 0
## 2048 1.9459101 1.3862944 0
## 2049 1.6094379 2.0794415 0
## 2050 2.5649494 1.6094379 45
## 2051 2.1972246 1.6094379 0
## 2053 2.4849066 0.6931472 0
## 2054 2.1972246 2.3025851 0
## 2056 2.6390573 1.7917595 36
## 2057 2.1972246 1.3862944 0
## 2058 1.9459101 0.0000000 0
## 2059 2.3978953 1.7917595 0

```

| | | | |
|---------|-----------|-----------|-----|
| ## 2060 | 2.1972246 | 2.0794415 | 0 |
| ## 2061 | 2.0794415 | 2.0794415 | 0 |
| ## 2062 | 2.4849066 | 0.0000000 | 0 |
| ## 2065 | 2.4849066 | 0.0000000 | 0 |
| ## 2066 | 1.0986123 | 1.0986123 | 39 |
| ## 2067 | 0.6931472 | 0.0000000 | 0 |
| ## 2068 | 2.1972246 | 0.6931472 | 0 |
| ## 2069 | 0.6931472 | 0.0000000 | 0 |
| ## 2070 | 2.3025851 | 0.0000000 | 0 |
| ## 2072 | 2.8332133 | 2.3025851 | 132 |
| ## 2073 | 2.0794415 | 0.0000000 | 0 |
| ## 2075 | 2.6390573 | 2.6390573 | 0 |
| ## 2076 | 0.6931472 | 0.0000000 | 88 |
| ## 2077 | 0.6931472 | 0.6931472 | 0 |
| ## 2078 | 2.3978953 | 1.3862944 | 0 |
| ## 2079 | 3.0910425 | 0.0000000 | 0 |
| ## 2080 | 2.3025851 | 1.7917595 | 0 |
| ## 2081 | 2.9444390 | 1.6094379 | 82 |
| ## 2084 | 2.7080502 | 0.0000000 | 0 |
| ## 2085 | 2.3978953 | 0.6931472 | 0 |
| ## 2086 | 2.7725887 | 1.3862944 | 0 |
| ## 2087 | 2.0794415 | 0.6931472 | 0 |
| ## 2088 | 0.6931472 | 1.6094379 | 0 |
| ## 2089 | 0.6931472 | 0.6931472 | 0 |
| ## 2091 | 0.6931472 | 1.9459101 | 0 |
| ## 2092 | 2.5649494 | 0.6931472 | 0 |
| ## 2094 | 2.8332133 | 0.0000000 | 78 |
| ## 2095 | 3.0445224 | 1.6094379 | 0 |
| ## 2096 | 2.1972246 | 0.6931472 | 0 |
| ## 2097 | 2.4849066 | 0.0000000 | 0 |
| ## 2098 | 2.3978953 | 1.0986123 | 54 |
| ## 2099 | 0.6931472 | 0.6931472 | 0 |
| ## 2100 | 1.6094379 | 1.7917595 | 0 |
| ## 2103 | 1.7917595 | 1.6094379 | 0 |
| ## 2104 | 0.6931472 | 1.6094379 | 0 |
| ## 2105 | 0.6931472 | 2.3978953 | 0 |
| ## 2106 | 0.6931472 | 1.3862944 | 0 |
| ## 2107 | 1.9459101 | 0.6931472 | 0 |
| ## 2108 | 0.6931472 | 1.3862944 | 0 |
| ## 2110 | 0.6931472 | 0.6931472 | 0 |
| ## 2111 | 2.0794415 | 0.6931472 | 0 |
| ## 2113 | 2.9444390 | 1.7917595 | 0 |
| ## 2114 | 2.4849066 | 2.4849066 | 0 |
| ## 2115 | 3.2188758 | 0.0000000 | 0 |
| ## 2116 | 2.3025851 | 0.6931472 | 0 |
| ## 2117 | 0.6931472 | 0.0000000 | 117 |
| ## 2118 | 0.6931472 | 0.0000000 | 124 |
| ## 2119 | 0.6931472 | 0.6931472 | 0 |
| ## 2122 | 2.9444390 | 0.6931472 | 0 |
| ## 2123 | 2.3025851 | 1.6094379 | 0 |
| ## 2124 | 0.6931472 | 1.3862944 | 0 |
| ## 2125 | 0.6931472 | 1.3862944 | 0 |
| ## 2126 | 0.6931472 | 0.0000000 | 76 |
| ## 2127 | 2.4849066 | 0.0000000 | 0 |

```

## 2129 0.6931472 1.9459101 86
## 2130 0.6931472 1.3862944 0
## 2132 2.3025851 2.3025851 0
## 2133 1.9459101 1.3862944 0
## 2134 2.0794415 0.0000000 0
## 2135 2.4849066 0.6931472 0
## 2136 2.4849066 1.6094379 88
## 2137 2.8332133 0.6931472 43
## 2138 0.6931472 0.6931472 0
## 2141 2.4849066 1.0986123 0
## 2142 2.6390573 1.3862944 0
## 2143 2.0794415 0.0000000 0
## 2144 0.6931472 1.3862944 0
## 2145 2.3025851 1.3862944 37
## 2146 1.9459101 0.0000000 56
## 2148 3.0445224 1.7917595 0
## 2149 2.8332133 1.0986123 0
## 2151 2.4849066 2.0794415 0
## 2152 2.3978953 0.0000000 0
## 2153 0.6931472 1.7917595 0
##
##
## [[2]]
## [1] 0.7382299
##
## [[3]]
## [1] 0.588171
##
## [[4]]
##          2         10        11        18        21
## 0.0230516452 0.2511036919 0.8512236454 0.3844203103 0.4206597480
##          29         30         37         40         48
## 1.0331305391 0.5301384854 0.2236636861 0.1073787712 -1.0993394268
##          49         56         59         67         68
## 0.1628205916 -0.6894966372 0.2625513544 -0.5640475050 0.2200930803
##          75         78         86         87         94
## -0.1223698711 -0.2638887658 -1.2556736357 -0.4094518374 -1.1669180405
##          97        105        106        113        116
## -0.4380079267 0.2763210711 0.3268176338 -0.2155625092 -0.0162965531
##          124        125        132        135        143
## 0.5894430685 0.4102101873 -0.1758847597 -0.0776179791 2.6737535458
##          144        151        154        162        163
## -0.1713049394 0.2284951484 0.4176597385 0.3158496231 -0.7188961919
##          170        173        181        182        189
## -0.3032390482 0.4514970245 0.2090939793 -1.5073624537 -0.6024712174
##          192        200        201        208        211
## -0.3855466979 -0.4395582604 -0.6188377564 -1.0268696404 0.3294931912
##          219        220        227        230        238
## 0.1207266158 -0.0139331657 -0.1587584855 0.4792490108 -0.3160500908
##          239        246        249        257        258
## -0.0633321323 0.2301681709 -1.6955581627 0.6953372238 0.0116611552
##          265        268        276        277        284
## -0.0918486388 -0.7251217972 0.1209567337 0.0136998131 0.1826880264
##          287        295        296        303        306

```

```

## -1.6598683250 -1.1013731313  1.9911262317  0.9315445714  0.6708615547
##          314              315              322              325              333
## -0.8723014989  0.8623698276  0.1538295174 -0.0349036157 -1.1478145586
##          334              341              344              352              353
##  0.2634085362  0.7431807198 -1.5351124424  0.3999696609 -0.4890912829
##          360              363              371              372              379
## -0.0205470786  0.1272205929  0.1543484861  0.8848449778  0.3817306315
##          382              390              391              398              401
##  0.0290059624  0.7798008496  0.3776117376  0.2163601015 -1.2412018712
##          409              410              417              420              428
## -1.5916155321  0.4122192254 -0.4336482218 -1.2641364668 -0.1901341980
##          429              436              439              447              448
## -0.3929069424 -0.0308527344  0.2067885029  0.0495810238  0.5385838877
##          455              458              466              467              474
## -0.6393991852 -0.3563104885 -0.0872247810  0.3491653178  1.4895112457
##          477              485              486              493              496
## -0.4565307329  0.2016615400  0.3906566668  0.2291656330 -0.1102020413
##          504              505              512              515              523
## -0.2951071332  0.1220399684 -0.3165836536 -2.3523721544 -0.8094493649
##          524              531              534              542              543
## -0.1935865572 -0.0958749538  0.5073154194 -0.1666062765 -1.2215679232
##          550              553              561              562              569
## -1.1844450274  0.0112611303  2.2523835568  1.6116854685  0.0748594134
##          572              580              581              588              591
## -0.7953953984 -0.4581075202  0.2408441572 -0.3342600722  0.0828158511
##          599              600              607              610              618
##  0.2544808549  0.4159942958 -0.4565876650  0.5337817488  0.6370293342
##          619              626              629              637              638
##  0.1268516296  0.5552976491 -0.3605835085  1.4007457479 -1.3539421201
##          645              648              656              657              664
##  0.6842316221 -1.2323284238  0.1466998656 -1.5012724980 -0.1721879557
##          667              675              676              683              686
##  0.2050100573  0.4802329788  0.4820020844  0.2022253574 -0.4871444600
##          694              695              702              705              713
##  0.3795796592 -0.0109574924 -0.3936209328  0.3359166791 -0.4775559385
##          714              721              724              732              733
##  0.5881565471  1.8532468745 -0.3070390498 -0.2604761623  2.0032799421
##          740              743              751              752              759
##  1.7758994770  0.5059647508 -0.6818290368  0.0125078161  0.0382647064
##          762              770              771              778              781
## -0.2911273974 -0.0529155526 -0.4189405746  2.2415965913 -0.1104837956
##          789              790              797              800              808
##  0.4724546466 -0.0104272385 -0.6871047643  0.4929998140 -1.1234719015
##          809              816              819              827              828
## -0.0971882623  0.1100105427  0.3348073673  0.5430263822 -0.3416634866
##          835              838              846              847              854
##  0.0061099759  0.1431205696 -1.5588366748 -0.0447211997  0.0735962827
##          857              865              866              873              876
## -0.7818621079 -0.2073419595  2.0447729014 -0.6367332938  0.2634414733
##          884              885              892              895              903
##  0.4447372015  1.3281488790  0.3392025448 -0.4106176280 -0.1149919853
##          904              911              914              922              923
##  0.7212101370  0.7055945993 -0.0868763999  0.2123268709 -0.7116580090
##          930              933              941              942              949

```

```

## -1.2474696804  0.3869666772  0.7039294778 -0.1571030534  0.5865677576
##          952           960           961           968           971
## -1.5626243442 -0.4861393844 -0.0493134968  0.6973465148  0.1739001272
##          979           980           987           990           998
## -0.0716094907  0.0645493240  0.1980507761 -0.2675319507 -0.1588141869
##          999          1006          1009          1017          1018
## -0.2168896804 -0.9347276345 -0.3688678895 -0.4001752028 -0.9836993310
##          1025          1028          1036          1037          1044
## -0.2992689905 -0.4409675711  0.7091489343  0.2302356613  1.4686303413
##          1047          1055          1056          1063          1066
## -0.3635467528 -0.0479258250 -0.1649718090 -0.3790278168  0.6760365604
##          1074          1075          1082          1085          1093
## -0.8456801403  0.5322681439 -1.0332906077 -0.0117389992 -1.1678934526
##          1094          1101          1104          1112          1113
##  0.1205381024  0.4447678656  0.3423523927 -0.2221158367 -0.0645763513
##          1120          1123          1131          1132          1139
##  0.1386083404 -0.2965924003  0.5458402480 -0.3384123608  0.5438371730
##          1142          1150          1151          1158          1161
##  1.9419050834  0.5379031266 -0.6866236230 -1.1800609023 -0.6257112393
##          1169          1170          1177          1180          1188
## -1.4562847353  0.4419489639  1.3508184328  0.0226179420 -0.6503534390
##          1189          1196          1199          1207          1208
##  0.2468042729  0.3980006680  0.4559317192  0.1108624046  0.8364974506
##          1215          1218          1226          1227          1234
## -0.1675504471  1.5956437842 -0.1219619861 -0.5906724635 -0.0587242846
##          1237          1245          1246          1253          1256
## -0.1576993054  0.2159531768 -0.0103632076 -0.0214015564 -0.6981746409
##          1264          1265          1272          1275          1283
##  0.1657163168  0.2184366866 -0.0706000828 -0.2492952067  0.1108457072
##          1284          1291          1294          1302          1303
## -0.2352718732 -0.8576280034 -0.8391547424  0.4315855583  0.5695790185
##          1310          1313          1321          1322          1329
##  0.3156999896  0.1220801434 -0.0475967965 -0.2486277489  0.3650124706
##          1332          1340          1341          1348          1351
## -1.2603943763  0.4286582244 -0.0005743660 -0.2307186814  0.1888787789
##          1359          1360          1367          1370          1378
##  0.9938156808 -1.4319276064  0.0925016416  0.5316256047  0.8814733036
##          1379          1386          1389          1397          1398
## -2.1091332937  0.1718442871 -0.6634332871 -0.2825902484 -0.4160555611
##          1405          1408          1416          1417          1424
## -0.5319368560  0.3650165374 -0.5287925496 -0.9665729458 -0.3060353486
##          1427          1435          1436          1443          1446
## -0.1122010582  2.0424310702 -0.5218407321  0.2642586335  0.0229679504
##          1454          1455          1462          1465          1473
##  0.4905842952 -1.5491308707  0.1386754955 -0.9956785945 -1.3697965110
##          1474          1481          1484          1492          1493
## -0.0571677988  0.3627903016 -0.2517511163 -1.0027679220 -0.2559255631
##          1500          1503          1511          1512          1519
##  0.5538676126 -0.8857537202  1.4072753039 -0.3519361535  0.9070567704
##          1522          1530          1531          1538          1541
## -0.6462965312 -0.0965994110 -0.8105349333 -0.1752070108 -0.4474294416
##          1549          1550          1557          1560          1568
##  0.5287159022 -0.9576372020 -1.7844346413  0.2281503017  0.1286949071
##          1569          1576          1579          1587          1588

```

```

## -0.7367916496 -0.0455517213  0.3369482874 -0.0830821971 -0.2132823884
##          1595            1598            1606            1607            1614
## -0.5793484986 -1.3454796406 -0.1524989481  0.6130317679  0.2939448546
##          1617            1625            1626            1633            1636
##  0.6240779369  0.1203774063 -0.2467960007  0.3495209753  0.5967974288
##          1644            1645            1652            1655            1663
##  0.0887434107  0.3990167260  0.5035019262  0.5728462834 -0.8616333050
##          1664            1671            1674            1682            1683
##  0.5065003505  2.0034503592  0.6466107497  0.3844962534  0.6981932091
##          1690            1693            1701            1702            1709
## -1.6422732520 -0.1637475990  0.4467003047  0.6470720706  0.6579273287
##          1712            1720            1721            1728            1731
##  0.3429877476 -0.8893973476  0.5512002407  0.0268481494  0.6625032893
##          1739            1740            1747            1750            1758
## -1.1513078046  0.0416566882  0.2429866734  0.4974492102 -1.0718127887
##          1759            1766            1769            1777            1778
## -1.7711567072  0.5790588090  0.4094331711  0.2133432817  0.0240457927
##          1785            1788            1796            1797            1804
## -0.2735180346 -0.0513888802 -0.1373149998  0.2275284251  0.1980466528
##          1807            1815            1816            1823            1827
##  0.2536775960 -0.0921522819  0.7694467505  0.0602948464  0.3673320879
##          1835            1836            1843            1846            1854
##  0.1839486084 -1.1401814525 -0.3591386867  0.4620156387  0.6841882261
##          1855            1862            1865            1873            1874
## -0.0711313500  0.2681731660  0.0002080231  0.4106223950  0.3804800107
##          1881            1884            1892            1893            1900
## -1.5573389617 -0.5643994040 -0.4547766783 -0.0157129157  0.1213491363
##          1903            1911            1912            1919            1922
## -0.9998339982  1.0996702197 -1.8304436079 -0.0769887067  0.4667569266
##          1930            1931            1938            1941            1949
##  0.0559216724  0.1183287349  1.3582174631 -0.2480859479  0.1813226426
##          1950            1957            1960            1968            1969
##  0.1656661780  0.1947034208 -0.4452445431  0.3032725598  0.3553837495
##          1976            1979            1987            1988            1995
##  0.6595742031 -0.3672715810  0.4038609714 -1.9159298245  0.2326318583
##          1998            2006            2007            2014            2017
##  0.3381378632 -1.3216536761  0.0528465720 -1.4275883199  0.0763007234
##          2025            2026            2033            2036            2044
## -0.1824535686  0.5415325334  0.2500235892  0.2283688430  0.0296069724
##          2045            2052            2055            2063            2064
##  0.0183154848 -0.2987522451  0.4698513802  2.8404824129 -0.0937413643
##          2071            2074            2082            2083            2090
##  0.3719843846  0.4277565963  0.5974399943  1.2878246484 -0.0215020664
##          2093            2101            2102            2109            2112
##  0.2480893023 -0.6627036991 -0.8380164634  0.6123644929  0.2342637202
##          2120            2121            2128            2131            2139
## -0.8780495329 -0.4422864706  0.1805098218 -0.1984407051  0.2941989098
##          2140            2147            2150
## -0.1887807387 -0.5938743968 -1.9778379874

```

#robust regression using log model

```

robust1 <- rlm(TARGET_AMT ~ ., data=zz[[1]]$model)
robust2 <- rlm(TARGET_AMT ~ ., data=aa[[1]]$model)

```

```

robust3 <- rlm(TARGET_AMT ~ ., data=cc[[1]]$model)

ols1 <- lm(TARGET_AMT ~ ., data=zz[[1]]$model)
ols2 <- lm(TARGET_AMT~., data=aa[[1]]$model )
ols3 <- lm(TARGET_AMT~., data=cc[[1]]$model )

summary(robust1)

## 
## Call: rlm(formula = TARGET_AMT ~ ., data = zz[[1]]$model)
## Residuals:
##      Min       1Q   Median       3Q      Max
## -4.76217 -0.39662  0.03145  0.38382  3.33381
##
## Coefficients:
##                               Value Std. Error t value
## (Intercept)               6.4887  0.4714   13.7654
## KIDSDRV                  -0.2131  0.1421   -1.4995
## HOMEKIDS                 0.0230  0.0143    1.6031
## YOJ                       0.0113  0.0106    1.0735
## BLUEBOOK                 0.0000  0.0000   -2.4628
## OLDCLAIM                  0.0000  0.0000    1.1923
## CLM_FREQ                  -0.0260  0.0134   -1.9414
## CAR_AGE                   -0.0131  0.0103   -1.2752
## MSTATUS_Yes                -0.0375  0.0298   -1.2582
## CAR_TYPE_Panel.Truck      0.1256  0.0647    1.9412
## REVOKED_Yes                -0.0339  0.0439   -0.7713
## EDUCATION_High.School     -0.0602  0.0653   -0.9213
## EDUCATION_Bachelors        -0.1238  0.0524   -2.3608
## EDUCATION_z_High.School   -0.0664  0.0578   -1.1496
## yojSquared                 -0.0008  0.0007   -1.1777
## bluebook_log                0.2050  0.0567    3.6159
## carage_log                  0.0843  0.0611    1.3786
## mvr_pts_log                 0.0491  0.0190    2.5757
## inter                      0.0045  0.0032    1.4123
##
## Residual standard error: 0.578 on 2133 degrees of freedom

```

#find residual standard error of ols model

```
summary(ols1)$sigma
```

```
## [1] 0.8018555
```

#find residual standard error of robust model

```
summary(robust1)$sigma
```

```
## [1] 0.5780089
```

```
summary(ols2)$sigma
```

```
## [1] 7416.119
```

```
#find residual standard error of robust model
summary(robust2)$sigma
```

```
## [1] 2287.746
```

```
summary(ols3)$sigma
```

```
## [1] 0.8097517
```

```
#find residual standard error of robust model
summary(robust3)$sigma
```

```
## [1] 0.5915329
```

```
#Lower is better
```

2. Data Preparation

A. Interaction terms These are the dummy variables we've chosen, based on the histograms above:

```
TaxOver600
radOver10
ptOver14
lstatOver12
IndusOver16
ZnOver0
NoxOverPoint8
MedvBelow50
```

The following are just some of the possible interactions we discover affecting the dataset:

```
#dfInt <- df %>%
#      mutate(TaxOver600 = ifelse(tax>=600,1,0))

#dfEval <- dfEval %>%
#      mutate(TaxOver600 = ifelse(tax>=600,1,0))

#a <- EHExplore_Interactions_Scatterplots(dfInt, "target", "ZnOver0")
#b <- EHExplore_Interactions_Scatterplots(dfInt, "target", "IndusOver16")

#x <- c(a[2], a[5], a[9], b[4], b[6], c[11], d[10], e[8], e[2], e[9])

#grid.arrange(grobs=x, ncol=3, nrow=4)
```

From these plots, we might draw a number of conclusions. First,

These interactions may or may not prove useful. We don't want to overfit the data, so it may be enough to simply include the dummy variables.

B. Transformations When the predictor variable is normally distributed but with different variance for the two values of y, we may try a quadratic function of x. rm may be considered a reasonable candidate for this.

For skewed distributions, we may include both x and log(x). nox, age, dis and lstat may be candidates for this.

Therefore we add the following transformations:

rmSquared, nox_log, age_log, dis_log, lstat_log

3. Build Models

A. Base Model We begin with the base model (all original variables from the original dataset).

```
#EHModel_Regression_Logistic(df, "target", splitRatio = 1)
```

In the base model, only 4 of the 12 predictors are not significant. AIC is 218. Through backward elimination we remove rm, lstat, chas and indus and arrive at a model with an AIC of 215.

Now we split the dataset 80/20 and perform 100 training iterations to test model predictive power.

C. Enhanced Model with Interaction Terms

4. Select Model

We choose model B as the model with both best accuracy and lowest AIC. First we run some diagnostics on the model.

5. Conclusion

We examined 466 records of town statistics to create a predictive model of whether crime rates were above the median or not. We used a logistic regression to do this, testing our models on an 80/20 split 100 times and taking the average accuracy and AIC.

Several enhancements to the model increased accuracy and lowered AIC. First, some predictors were transformed with the log or square to improve fit. Second, dummy variables were introduced to capture the fact that highly industrial areas appeared to operate by a different logic than mixed use areas. interaction terms to model this phenomenon did not improve the model. The final model 93% accurate.