MultipleRegression.R

2019-11-07

##Multivariate Project  
##TELECOM-CHURN-ANALYSIS  
##Author : Sanket Gohel

##Importing Libraries

library(ggplot2)  
library(dplyr)

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

##   
## Attaching package: 'dplyr'

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

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

library (stringr)

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

library(data.table)

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

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

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

library(grid)  
library(gridExtra)

##   
## Attaching package: 'gridExtra'

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

library(corrplot)

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

## corrplot 0.84 loaded

library(scales)  
library(qqplotr)

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

##   
## Attaching package: 'qqplotr'

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

library(MASS)

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

##   
## Attaching package: 'MASS'

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

library(DMwR)

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

## Loading required package: lattice

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

library(car)

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

## Loading required package: carData

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

##   
## Attaching package: 'car'

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

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

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

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

##   
## Attaching package: 'pROC'

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

library(tidyverse)

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

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

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

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

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

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

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

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

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

library(MVA)

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

## Loading required package: HSAUR2

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

## Loading required package: tools

library(GGally)

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

##   
## Attaching package: 'GGally'

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

library(gvlma)

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

##Importing Dataset and doing preliminary analysis

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

## [1] 7043 21

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

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

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

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

glimpse(tablechurn)

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

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

## Performing Data Cleaning and Formatting

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

## [1] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [7] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years  
## [13] 5-6 Years 5-6 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years  
## [19] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [25] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years  
## [31] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [37] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [43] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years  
## [49] 5-6 Years 6-7 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years  
## [55] 5-6 Years 1-2 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years  
## [61] 4-5 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years  
## [67] 4-5 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years  
## [73] 6-7 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years  
## [79] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years  
## [85] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years 2-3 Years  
## [91] 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years  
## [97] 6-7 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years  
## [103] 4-5 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years  
## [109] 4-5 Years 6-7 Years 5-6 Years 5-6 Years 4-5 Years 4-5 Years  
## [115] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years 2-3 Years  
## [121] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years  
## [127] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years  
## [133] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 1-2 Years 6-7 Years  
## [139] 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years  
## [145] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [151] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years  
## [157] 1-2 Years 1-2 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years  
## [163] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [169] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 1-2 Years 5-6 Years  
## [175] 2-3 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years 6-7 Years  
## [181] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years 0-1 Years  
## [187] 1-2 Years 0-1 Years 1-2 Years 4-5 Years 4-5 Years 0-1 Years  
## [193] 6-7 Years 6-7 Years 5-6 Years 1-2 Years 1-2 Years 5-6 Years  
## [199] 6-7 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 1-2 Years  
## [205] 4-5 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years  
## [211] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 5-6 Years  
## [217] 6-7 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## [223] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years  
## [229] 2-3 Years 4-5 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years  
## [235] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [241] 6-7 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years  
## [247] 4-5 Years 1-2 Years 0-1 Years 4-5 Years 5-6 Years 0-1 Years  
## [253] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [259] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Years  
## [265] 4-5 Years 6-7 Years 5-6 Years 1-2 Years 5-6 Years 6-7 Years  
## [271] 1-2 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [277] 5-6 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years  
## [283] 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 0-1 Years  
## [289] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years  
## [295] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 0-1 Years  
## [301] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years  
## [307] 2-3 Years 2-3 Years 4-5 Years 4-5 Years 0-1 Years 1-2 Years  
## [313] 4-5 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 4-5 Years  
## [319] 1-2 Years 2-3 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [325] 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [331] 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years  
## [337] 4-5 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years  
## [343] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years  
## [349] 1-2 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years  
## [355] 1-2 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 4-5 Years  
## [361] 0-1 Years 4-5 Years 5-6 Years 4-5 Years 1-2 Years 0-1 Years  
## [367] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years  
## [373] 1-2 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Years  
## [379] 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years  
## [385] 4-5 Years 0-1 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years  
## [391] 2-3 Years 2-3 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years  
## [397] 2-3 Years 2-3 Years 2-3 Years 1-2 Years 2-3 Years 0-1 Years  
## [403] 6-7 Years 6-7 Years 1-2 Years 6-7 Years 5-6 Years 2-3 Years  
## [409] 0-1 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 5-6 Years  
## [415] 4-5 Years 1-2 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years  
## [421] 0-1 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years  
## [427] 5-6 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 6-7 Years  
## [433] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Years 6-7 Years  
## [439] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Years 1-2 Years  
## [445] 2-3 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [451] 6-7 Years 1-2 Years 5-6 Years 2-3 Years 6-7 Years 1-2 Years  
## [457] 2-3 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years  
## [463] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years  
## [469] 4-5 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [475] 0-1 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years  
## [481] 0-1 Years 4-5 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years  
## [487] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [493] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Years  
## [499] 0-1 Years 0-1 Years 2-3 Years 6-7 Years 6-7 Years 5-6 Years  
## [505] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
## [511] 1-2 Years 6-7 Years 0-1 Years 5-6 Years 2-3 Years 4-5 Years  
## [517] 2-3 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 2-3 Years  
## [523] 5-6 Years 1-2 Years 2-3 Years 5-6 Years 6-7 Years 5-6 Years  
## [529] 2-3 Years 5-6 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years  
## [535] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 6-7 Years 5-6 Years  
## [541] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years  
## [547] 4-5 Years 6-7 Years 5-6 Years 1-2 Years 6-7 Years 6-7 Years  
## [553] 5-6 Years 1-2 Years 2-3 Years 5-6 Years 0-1 Years 4-5 Years  
## [559] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years  
## [565] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years  
## [571] 5-6 Years 4-5 Years 0-1 Years 5-6 Years 2-3 Years 6-7 Years  
## [577] 2-3 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years  
## [583] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years  
## [589] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 2-3 Years  
## [595] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years  
## [601] 1-2 Years 0-1 Years 6-7 Years 4-5 Years 2-3 Years 6-7 Years  
## [607] 4-5 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years  
## [613] 6-7 Years 4-5 Years 5-6 Years 1-2 Years 0-1 Years 6-7 Years  
## [619] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years  
## [625] 0-1 Years 2-3 Years 1-2 Years 6-7 Years 6-7 Years 5-6 Years  
## [631] 4-5 Years 4-5 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years  
## [637] 2-3 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years  
## [643] 0-1 Years 5-6 Years 1-2 Years 1-2 Years 0-1 Years 5-6 Years  
## [649] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [655] 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 4-5 Years  
## [661] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years  
## [667] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years  
## [673] 0-1 Years 1-2 Years 5-6 Years 6-7 Years 4-5 Years 0-1 Years  
## [679] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years  
## [685] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 5-6 Years 5-6 Years  
## [691] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years  
## [697] 6-7 Years 0-1 Years 4-5 Years 6-7 Years 6-7 Years 2-3 Years  
## [703] 2-3 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years  
## [709] 2-3 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Years  
## [715] 6-7 Years 4-5 Years 6-7 Years 2-3 Years 2-3 Years 6-7 Years  
## [721] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [727] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years 0-1 Years  
## [733] 2-3 Years 6-7 Years 2-3 Years 2-3 Years 2-3 Years 6-7 Years  
## [739] 4-5 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years  
## [745] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years  
## [751] 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years  
## [757] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 1-2 Years  
## [763] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years  
## [769] 4-5 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [775] 2-3 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years  
## [781] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years  
## [787] 6-7 Years 2-3 Years 1-2 Years 6-7 Years 5-6 Years 6-7 Years  
## [793] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [799] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years  
## [805] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years  
## [811] 5-6 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years 2-3 Years  
## [817] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 6-7 Years 4-5 Years  
## [823] 4-5 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 1-2 Years  
## [829] 5-6 Years 2-3 Years 5-6 Years 4-5 Years 6-7 Years 4-5 Years  
## [835] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years  
## [841] 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [847] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 5-6 Years  
## [853] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years  
## [859] 6-7 Years 6-7 Years 2-3 Years 6-7 Years 1-2 Years 0-1 Years  
## [865] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years  
## [871] 6-7 Years 5-6 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Years  
## [877] 1-2 Years 5-6 Years 5-6 Years 2-3 Years 0-1 Years 2-3 Years  
## [883] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years  
## [889] 4-5 Years 6-7 Years 2-3 Years 5-6 Years 2-3 Years 0-1 Years  
## [895] 6-7 Years 2-3 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Years  
## [901] 0-1 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 0-1 Years  
## [907] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [913] 6-7 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years  
## [919] 2-3 Years 1-2 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Years  
## [925] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
## [931] 1-2 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years  
## [937] 0-1 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years  
## [943] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years  
## [949] 2-3 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years  
## [955] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years  
## [961] 0-1 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years  
## [967] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years  
## [973] 5-6 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [979] 6-7 Years 2-3 Years 1-2 Years 4-5 Years 4-5 Years 0-1 Years  
## [985] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years  
## [991] 5-6 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 2-3 Years  
## [997] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years  
## [1003] 0-1 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 0-1 Years  
## [1009] 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [1015] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years  
## [1021] 4-5 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years 5-6 Years  
## [1027] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years 2-3 Years  
## [1033] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years  
## [1039] 5-6 Years 4-5 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Years  
## [1045] 0-1 Years 4-5 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Years  
## [1051] 0-1 Years 1-2 Years 4-5 Years 0-1 Years 4-5 Years 2-3 Years  
## [1057] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Years  
## [1063] 2-3 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years  
## [1069] 5-6 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [1075] 0-1 Years 5-6 Years 5-6 Years 4-5 Years 5-6 Years 0-1 Years  
## [1081] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Years  
## [1087] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 5-6 Years 2-3 Years  
## [1093] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years  
## [1099] 6-7 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years 5-6 Years  
## [1105] 4-5 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 4-5 Years  
## [1111] 5-6 Years 0-1 Years 6-7 Years 4-5 Years 2-3 Years 4-5 Years  
## [1117] 4-5 Years 5-6 Years 4-5 Years 6-7 Years 1-2 Years 5-6 Years  
## [1123] 1-2 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years  
## [1129] 2-3 Years 4-5 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years  
## [1135] 2-3 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years  
## [1141] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years  
## [1147] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 0-1 Years  
## [1153] 0-1 Years 5-6 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years  
## [1159] 5-6 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [1165] 6-7 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years  
## [1171] 6-7 Years 5-6 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Years  
## [1177] 0-1 Years 4-5 Years 1-2 Years 4-5 Years 4-5 Years 1-2 Years  
## [1183] 5-6 Years 5-6 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years  
## [1189] 2-3 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 4-5 Years  
## [1195] 1-2 Years 1-2 Years 6-7 Years 1-2 Years 4-5 Years 1-2 Years  
## [1201] 4-5 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years  
## [1207] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years  
## [1213] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years  
## [1219] 1-2 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [1225] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 5-6 Years 6-7 Years  
## [1231] 4-5 Years 1-2 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years  
## [1237] 0-1 Years 1-2 Years 1-2 Years 0-1 Years 2-3 Years 2-3 Years  
## [1243] 1-2 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years  
## [1249] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [1255] 5-6 Years 0-1 Years 6-7 Years 4-5 Years 4-5 Years 4-5 Years  
## [1261] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [1267] 0-1 Years 6-7 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Years  
## [1273] 0-1 Years 5-6 Years 6-7 Years 5-6 Years 6-7 Years 6-7 Years  
## [1279] 2-3 Years 2-3 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years  
## [1285] 5-6 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 6-7 Years  
## [1291] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years  
## [1297] 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years  
## [1303] 4-5 Years 6-7 Years 1-2 Years 2-3 Years 6-7 Years 2-3 Years  
## [1309] 1-2 Years 1-2 Years 2-3 Years 4-5 Years 4-5 Years 4-5 Years  
## [1315] 4-5 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
## [1321] 2-3 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [1327] 4-5 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years 0-1 Years  
## [1333] 6-7 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years  
## [1339] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [1345] 2-3 Years 5-6 Years 1-2 Years 1-2 Years 0-1 Years 5-6 Years  
## [1351] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years  
## [1357] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [1363] 0-1 Years 6-7 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years  
## [1369] 5-6 Years 2-3 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years  
## [1375] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years 6-7 Years  
## [1381] 6-7 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 4-5 Years  
## [1387] 6-7 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years  
## [1393] 2-3 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years 0-1 Years  
## [1399] 1-2 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [1405] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years  
## [1411] 0-1 Years 2-3 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years  
## [1417] 5-6 Years 1-2 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years  
## [1423] 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Years  
## [1429] 0-1 Years 4-5 Years 1-2 Years 4-5 Years 2-3 Years 0-1 Years  
## [1435] 0-1 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years  
## [1441] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 4-5 Years 1-2 Years  
## [1447] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [1453] 5-6 Years 2-3 Years 2-3 Years 2-3 Years 1-2 Years 4-5 Years  
## [1459] 0-1 Years 5-6 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years  
## [1465] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Years  
## [1471] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 6-7 Years  
## [1477] 0-1 Years 6-7 Years 4-5 Years 4-5 Years 4-5 Years 6-7 Years  
## [1483] 1-2 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years  
## [1489] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years  
## [1495] 0-1 Years 5-6 Years 0-1 Years 5-6 Years 1-2 Years 6-7 Years  
## [1501] 4-5 Years 1-2 Years 5-6 Years 4-5 Years 1-2 Years 0-1 Years  
## [1507] 6-7 Years 5-6 Years 1-2 Years 1-2 Years 6-7 Years 6-7 Years  
## [1513] 1-2 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years 5-6 Years  
## [1519] 0-1 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years  
## [1525] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years  
## [1531] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Years 0-1 Years  
## [1537] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [1543] 4-5 Years 0-1 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years  
## [1549] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 4-5 Years  
## [1555] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [1561] 4-5 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [1567] 6-7 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years  
## [1573] 0-1 Years 4-5 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years  
## [1579] 0-1 Years 0-1 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Years  
## [1585] 6-7 Years 4-5 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years  
## [1591] 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years  
## [1597] 0-1 Years 4-5 Years 2-3 Years 6-7 Years 0-1 Years 4-5 Years  
## [1603] 2-3 Years 1-2 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years  
## [1609] 1-2 Years 5-6 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years  
## [1615] 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Years 6-7 Years  
## [1621] 0-1 Years 2-3 Years 4-5 Years 5-6 Years 5-6 Years 0-1 Years  
## [1627] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years 1-2 Years  
## [1633] 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years  
## [1639] 6-7 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years  
## [1645] 2-3 Years 4-5 Years 5-6 Years 0-1 Years 5-6 Years 2-3 Years  
## [1651] 0-1 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years  
## [1657] 5-6 Years 2-3 Years 5-6 Years 6-7 Years 4-5 Years 6-7 Years  
## [1663] 0-1 Years 5-6 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years  
## [1669] 4-5 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years  
## [1675] 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [1681] 5-6 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years 2-3 Years  
## [1687] 2-3 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years  
## [1693] 4-5 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [1699] 6-7 Years 4-5 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years  
## [1705] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years  
## [1711] 0-1 Years 6-7 Years 2-3 Years 5-6 Years 6-7 Years 4-5 Years  
## [1717] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years  
## [1723] 5-6 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 2-3 Years  
## [1729] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [1735] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [1741] 4-5 Years 1-2 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years  
## [1747] 6-7 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years 1-2 Years  
## [1753] 2-3 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 5-6 Years  
## [1759] 6-7 Years 1-2 Years 5-6 Years 5-6 Years 2-3 Years 0-1 Years  
## [1765] 6-7 Years 5-6 Years 2-3 Years 6-7 Years 6-7 Years 6-7 Years  
## [1771] 4-5 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [1777] 6-7 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 5-6 Years  
## [1783] 2-3 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 4-5 Years  
## [1789] 5-6 Years 5-6 Years 0-1 Years 4-5 Years 4-5 Years 6-7 Years  
## [1795] 6-7 Years 1-2 Years 1-2 Years 2-3 Years 2-3 Years 0-1 Years  
## [1801] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 2-3 Years 6-7 Years  
## [1807] 2-3 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Years 1-2 Years  
## [1813] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [1819] 5-6 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years 1-2 Years  
## [1825] 6-7 Years 2-3 Years 6-7 Years 4-5 Years 4-5 Years 0-1 Years  
## [1831] 2-3 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [1837] 1-2 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years  
## [1843] 4-5 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Years 5-6 Years  
## [1849] 4-5 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years  
## [1855] 0-1 Years 4-5 Years 4-5 Years 6-7 Years 1-2 Years 5-6 Years  
## [1861] 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years 4-5 Years  
## [1867] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years  
## [1873] 4-5 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years  
## [1879] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 2-3 Years  
## [1885] 2-3 Years 1-2 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years  
## [1891] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years  
## [1897] 4-5 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [1903] 6-7 Years 0-1 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years  
## [1909] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [1915] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years  
## [1921] 1-2 Years 6-7 Years 2-3 Years 4-5 Years 1-2 Years 5-6 Years  
## [1927] 5-6 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years  
## [1933] 0-1 Years 1-2 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years  
## [1939] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years  
## [1945] 0-1 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Years  
## [1951] 6-7 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years  
## [1957] 6-7 Years 4-5 Years 1-2 Years 0-1 Years 2-3 Years 4-5 Years  
## [1963] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years  
## [1969] 5-6 Years 5-6 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Years  
## [1975] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 5-6 Years 4-5 Years  
## [1981] 0-1 Years 5-6 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years  
## [1987] 6-7 Years 2-3 Years 5-6 Years 2-3 Years 1-2 Years 4-5 Years  
## [1993] 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years  
## [1999] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years  
## [2005] 1-2 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [2011] 0-1 Years 5-6 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Years  
## [2017] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years 6-7 Years  
## [2023] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years  
## [2029] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [2035] 4-5 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [2041] 6-7 Years 0-1 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years  
## [2047] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 6-7 Years  
## [2053] 4-5 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Years 1-2 Years  
## [2059] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years  
## [2065] 2-3 Years 2-3 Years 6-7 Years 6-7 Years 4-5 Years 0-1 Years  
## [2071] 5-6 Years 6-7 Years 4-5 Years 1-2 Years 4-5 Years 5-6 Years  
## [2077] 1-2 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years  
## [2083] 1-2 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years 0-1 Years  
## [2089] 2-3 Years 5-6 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Years  
## [2095] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years  
## [2101] 6-7 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years  
## [2107] 5-6 Years 2-3 Years 4-5 Years 2-3 Years 0-1 Years 2-3 Years  
## [2113] 2-3 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years  
## [2119] 1-2 Years 4-5 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years  
## [2125] 0-1 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years  
## [2131] 5-6 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years  
## [2137] 1-2 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years 1-2 Years  
## [2143] 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years  
## [2149] 0-1 Years 4-5 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years  
## [2155] 1-2 Years 2-3 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years  
## [2161] 6-7 Years 0-1 Years 2-3 Years 2-3 Years 6-7 Years 1-2 Years  
## [2167] 5-6 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years  
## [2173] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Years 6-7 Years  
## [2179] 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years 0-1 Years  
## [2185] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 6-7 Years  
## [2191] 6-7 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years  
## [2197] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 1-2 Years 2-3 Years  
## [2203] 0-1 Years 6-7 Years 6-7 Years 2-3 Years 5-6 Years 0-1 Years  
## [2209] 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years  
## [2215] 1-2 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years  
## [2221] 6-7 Years 6-7 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Years  
## [2227] 1-2 Years 5-6 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years  
## [2233] 2-3 Years 5-6 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years  
## [2239] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 4-5 Years 6-7 Years  
## [2245] 2-3 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years  
## [2251] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years  
## [2257] 1-2 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years  
## [2263] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years  
## [2269] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 2-3 Years  
## [2275] 1-2 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years  
## [2281] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years  
## [2287] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years  
## [2293] 5-6 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [2299] 6-7 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years  
## [2305] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years  
## [2311] 6-7 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years  
## [2317] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years  
## [2323] 5-6 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years  
## [2329] 2-3 Years 5-6 Years 2-3 Years 2-3 Years 4-5 Years 5-6 Years  
## [2335] 1-2 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 1-2 Years  
## [2341] 4-5 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years  
## [2347] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years  
## [2353] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [2359] 5-6 Years 2-3 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years  
## [2365] 1-2 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [2371] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years  
## [2377] 0-1 Years 4-5 Years 2-3 Years 2-3 Years 5-6 Years 0-1 Years  
## [2383] 2-3 Years 1-2 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years  
## [2389] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years  
## [2395] 6-7 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years  
## [2401] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years  
## [2407] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 4-5 Years 5-6 Years  
## [2413] 4-5 Years 0-1 Years 2-3 Years 4-5 Years 2-3 Years 0-1 Years  
## [2419] 2-3 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [2425] 5-6 Years 2-3 Years 1-2 Years 0-1 Years 4-5 Years 5-6 Years  
## [2431] 2-3 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years  
## [2437] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years  
## [2443] 0-1 Years 6-7 Years 2-3 Years 2-3 Years 1-2 Years 0-1 Years  
## [2449] 1-2 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Years  
## [2455] 6-7 Years 0-1 Years 4-5 Years 5-6 Years 5-6 Years 0-1 Years  
## [2461] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
## [2467] 5-6 Years 5-6 Years 0-1 Years 2-3 Years 6-7 Years 5-6 Years  
## [2473] 6-7 Years 0-1 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Years  
## [2479] 0-1 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 4-5 Years  
## [2485] 0-1 Years 1-2 Years 2-3 Years 1-2 Years 2-3 Years 6-7 Years  
## [2491] 4-5 Years 4-5 Years 1-2 Years 0-1 Years 2-3 Years 4-5 Years  
## [2497] 1-2 Years 0-1 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years  
## [2503] 6-7 Years 4-5 Years 0-1 Years 2-3 Years 6-7 Years 6-7 Years  
## [2509] 6-7 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years  
## [2515] 2-3 Years 6-7 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years  
## [2521] 2-3 Years 2-3 Years 5-6 Years 4-5 Years 6-7 Years 6-7 Years  
## [2527] 0-1 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years  
## [2533] 4-5 Years 6-7 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years  
## [2539] 2-3 Years 6-7 Years 6-7 Years 6-7 Years 2-3 Years 1-2 Years  
## [2545] 0-1 Years 6-7 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years  
## [2551] 5-6 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years  
## [2557] 4-5 Years 0-1 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years  
## [2563] 6-7 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Years 5-6 Years  
## [2569] 1-2 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Years 0-1 Years  
## [2575] 4-5 Years 2-3 Years 5-6 Years 0-1 Years 2-3 Years 4-5 Years  
## [2581] 2-3 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 4-5 Years  
## [2587] 4-5 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years  
## [2593] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years 6-7 Years  
## [2599] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years  
## [2605] 2-3 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [2611] 4-5 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years  
## [2617] 0-1 Years 0-1 Years 2-3 Years 2-3 Years 1-2 Years 6-7 Years  
## [2623] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Years 2-3 Years  
## [2629] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years  
## [2635] 0-1 Years 6-7 Years 6-7 Years 2-3 Years 5-6 Years 1-2 Years  
## [2641] 1-2 Years 0-1 Years 4-5 Years 2-3 Years 1-2 Years 0-1 Years  
## [2647] 5-6 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years  
## [2653] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years  
## [2659] 1-2 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 5-6 Years  
## [2665] 6-7 Years 2-3 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years  
## [2671] 5-6 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Years 4-5 Years  
## [2677] 2-3 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years  
## [2683] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years  
## [2689] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years  
## [2695] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years  
## [2701] 2-3 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years  
## [2707] 0-1 Years 0-1 Years 1-2 Years 4-5 Years 1-2 Years 2-3 Years  
## [2713] 0-1 Years 0-1 Years 5-6 Years 4-5 Years 1-2 Years 6-7 Years  
## [2719] 6-7 Years 5-6 Years 1-2 Years 0-1 Years 2-3 Years 1-2 Years  
## [2725] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years  
## [2731] 5-6 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [2737] 5-6 Years 6-7 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years  
## [2743] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 0-1 Years  
## [2749] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years  
## [2755] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [2761] 2-3 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 1-2 Years  
## [2767] 6-7 Years 4-5 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Years  
## [2773] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years  
## [2779] 1-2 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years  
## [2785] 0-1 Years 2-3 Years 2-3 Years 6-7 Years 6-7 Years 1-2 Years  
## [2791] 5-6 Years 5-6 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Years  
## [2797] 5-6 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Years 6-7 Years  
## [2803] 2-3 Years 4-5 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years  
## [2809] 0-1 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years 6-7 Years  
## [2815] 6-7 Years 0-1 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years  
## [2821] 5-6 Years 0-1 Years 4-5 Years 4-5 Years 6-7 Years 1-2 Years  
## [2827] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years  
## [2833] 4-5 Years 6-7 Years 4-5 Years 6-7 Years 5-6 Years 0-1 Years  
## [2839] 4-5 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years  
## [2845] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years 0-1 Years  
## [2851] 5-6 Years 6-7 Years 6-7 Years 5-6 Years 1-2 Years 4-5 Years  
## [2857] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years  
## [2863] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [2869] 2-3 Years 0-1 Years 5-6 Years 1-2 Years 4-5 Years 2-3 Years  
## [2875] 6-7 Years 1-2 Years 1-2 Years 6-7 Years 1-2 Years 6-7 Years  
## [2881] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years  
## [2887] 5-6 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years  
## [2893] 0-1 Years 1-2 Years 4-5 Years 4-5 Years 1-2 Years 4-5 Years  
## [2899] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [2905] 2-3 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years  
## [2911] 2-3 Years 0-1 Years 2-3 Years 5-6 Years 2-3 Years 6-7 Years  
## [2917] 5-6 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years  
## [2923] 2-3 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years  
## [2929] 6-7 Years 4-5 Years 2-3 Years 2-3 Years 5-6 Years 6-7 Years  
## [2935] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 5-6 Years 0-1 Years  
## [2941] 5-6 Years 6-7 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years  
## [2947] 5-6 Years 5-6 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Years  
## [2953] 2-3 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years  
## [2959] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years  
## [2965] 1-2 Years 5-6 Years 1-2 Years 5-6 Years 0-1 Years 6-7 Years  
## [2971] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years  
## [2977] 1-2 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years  
## [2983] 5-6 Years 6-7 Years 2-3 Years 2-3 Years 5-6 Years 2-3 Years  
## [2989] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [2995] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 1-2 Years  
## [3001] 0-1 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Years 1-2 Years  
## [3007] 1-2 Years 2-3 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years  
## [3013] 5-6 Years 2-3 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Years  
## [3019] 6-7 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [3025] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [3031] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years  
## [3037] 6-7 Years 2-3 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years  
## [3043] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 2-3 Years  
## [3049] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [3055] 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Years 6-7 Years  
## [3061] 2-3 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years 0-1 Years  
## [3067] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 4-5 Years  
## [3073] 6-7 Years 5-6 Years 2-3 Years 6-7 Years 0-1 Years 4-5 Years  
## [3079] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years  
## [3085] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 4-5 Years 6-7 Years  
## [3091] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years  
## [3097] 6-7 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years 5-6 Years  
## [3103] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years 6-7 Years  
## [3109] 4-5 Years 5-6 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years  
## [3115] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 4-5 Years 2-3 Years  
## [3121] 6-7 Years 1-2 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years  
## [3127] 2-3 Years 2-3 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years  
## [3133] 0-1 Years 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years  
## [3139] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [3145] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 0-1 Years  
## [3151] 1-2 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years 2-3 Years  
## [3157] 2-3 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years  
## [3163] 1-2 Years 4-5 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Years  
## [3169] 5-6 Years 5-6 Years 2-3 Years 1-2 Years 2-3 Years 1-2 Years  
## [3175] 5-6 Years 1-2 Years 5-6 Years 6-7 Years 5-6 Years 2-3 Years  
## [3181] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years  
## [3187] 5-6 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years  
## [3193] 5-6 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years  
## [3199] 4-5 Years 6-7 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years  
## [3205] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years  
## [3211] 6-7 Years 1-2 Years 4-5 Years 4-5 Years 5-6 Years 4-5 Years  
## [3217] 0-1 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years  
## [3223] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [3229] 5-6 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years 0-1 Years  
## [3235] 1-2 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 1-2 Years  
## [3241] 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [3247] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years  
## [3253] 1-2 Years 2-3 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years  
## [3259] 0-1 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 5-6 Years  
## [3265] 0-1 Years 2-3 Years 6-7 Years 4-5 Years 1-2 Years 6-7 Years  
## [3271] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 1-2 Years  
## [3277] 0-1 Years 1-2 Years 6-7 Years 1-2 Years 5-6 Years 5-6 Years  
## [3283] 5-6 Years 6-7 Years 4-5 Years 6-7 Years 2-3 Years 1-2 Years  
## [3289] 1-2 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [3295] 0-1 Years 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years  
## [3301] 2-3 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years  
## [3307] 0-1 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 4-5 Years  
## [3313] 0-1 Years 0-1 Years 4-5 Years 6-7 Years 2-3 Years 6-7 Years  
## [3319] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years  
## [3325] 0-1 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 1-2 Years  
## [3331] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years  
## [3337] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years  
## [3343] 4-5 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [3349] 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [3355] 5-6 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [3361] 1-2 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Years  
## [3367] 2-3 Years 5-6 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years  
## [3373] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [3379] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years  
## [3385] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [3391] 5-6 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 6-7 Years  
## [3397] 5-6 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years 5-6 Years  
## [3403] 0-1 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years  
## [3409] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years  
## [3415] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years  
## [3421] 2-3 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years  
## [3427] 0-1 Years 1-2 Years 5-6 Years 5-6 Years 5-6 Years 1-2 Years  
## [3433] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Years  
## [3439] 1-2 Years 6-7 Years 6-7 Years 2-3 Years 2-3 Years 4-5 Years  
## [3445] 2-3 Years 4-5 Years 5-6 Years 4-5 Years 0-1 Years 5-6 Years  
## [3451] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years  
## [3457] 6-7 Years 0-1 Years 2-3 Years 2-3 Years 4-5 Years 5-6 Years  
## [3463] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years  
## [3469] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 5-6 Years 4-5 Years  
## [3475] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years  
## [3481] 6-7 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Years  
## [3487] 4-5 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years  
## [3493] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [3499] 4-5 Years 0-1 Years 5-6 Years 5-6 Years 4-5 Years 6-7 Years  
## [3505] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [3511] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 5-6 Years 1-2 Years  
## [3517] 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years 5-6 Years  
## [3523] 4-5 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years  
## [3529] 1-2 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Years 0-1 Years  
## [3535] 4-5 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Years  
## [3541] 6-7 Years 5-6 Years 2-3 Years 6-7 Years 2-3 Years 5-6 Years  
## [3547] 6-7 Years 6-7 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years  
## [3553] 6-7 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years  
## [3559] 2-3 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 2-3 Years  
## [3565] 6-7 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Years 1-2 Years  
## [3571] 1-2 Years 2-3 Years 2-3 Years 2-3 Years 0-1 Years 5-6 Years  
## [3577] 6-7 Years 2-3 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years  
## [3583] 0-1 Years 4-5 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years  
## [3589] 0-1 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [3595] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years  
## [3601] 5-6 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Years 2-3 Years  
## [3607] 6-7 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years 4-5 Years  
## [3613] 1-2 Years 5-6 Years 6-7 Years 2-3 Years 6-7 Years 1-2 Years  
## [3619] 4-5 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years  
## [3625] 6-7 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years 1-2 Years  
## [3631] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years  
## [3637] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 2-3 Years 5-6 Years  
## [3643] 2-3 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years  
## [3649] 5-6 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years  
## [3655] 2-3 Years 2-3 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years  
## [3661] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [3667] 5-6 Years 1-2 Years 1-2 Years 4-5 Years 2-3 Years 0-1 Years  
## [3673] 5-6 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [3679] 1-2 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years  
## [3685] 4-5 Years 5-6 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Years  
## [3691] 1-2 Years 4-5 Years 0-1 Years 4-5 Years 6-7 Years 2-3 Years  
## [3697] 0-1 Years 2-3 Years 5-6 Years 2-3 Years 1-2 Years 2-3 Years  
## [3703] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years  
## [3709] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Years 4-5 Years  
## [3715] 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years 2-3 Years  
## [3721] 4-5 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Years 0-1 Years  
## [3727] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years  
## [3733] 1-2 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years  
## [3739] 2-3 Years 1-2 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years  
## [3745] 2-3 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years  
## [3751] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [3757] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [3763] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [3769] 5-6 Years 4-5 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [3775] 5-6 Years 4-5 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years  
## [3781] 5-6 Years 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years  
## [3787] 2-3 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [3793] 2-3 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years  
## [3799] 4-5 Years 2-3 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years  
## [3805] 0-1 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years 5-6 Years  
## [3811] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 0-1 Years  
## [3817] 5-6 Years 5-6 Years 5-6 Years 4-5 Years 6-7 Years 0-1 Years  
## [3823] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years  
## [3829] 6-7 Years 4-5 Years 0-1 Years 2-3 Years 5-6 Years 0-1 Years  
## [3835] 5-6 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years  
## [3841] 6-7 Years 2-3 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years  
## [3847] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 4-5 Years  
## [3853] 0-1 Years 4-5 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years  
## [3859] 4-5 Years 5-6 Years 1-2 Years 2-3 Years 6-7 Years 1-2 Years  
## [3865] 2-3 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 5-6 Years  
## [3871] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years  
## [3877] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years  
## [3883] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [3889] 0-1 Years 1-2 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years  
## [3895] 6-7 Years 5-6 Years 4-5 Years 6-7 Years 4-5 Years 5-6 Years  
## [3901] 2-3 Years 6-7 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years  
## [3907] 0-1 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 1-2 Years  
## [3913] 5-6 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 0-1 Years  
## [3919] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years  
## [3925] 4-5 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 5-6 Years  
## [3931] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [3937] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [3943] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
## [3949] 5-6 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years  
## [3955] 1-2 Years 2-3 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years  
## [3961] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [3967] 6-7 Years 2-3 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years  
## [3973] 4-5 Years 4-5 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years  
## [3979] 0-1 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years  
## [3985] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years  
## [3991] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 2-3 Years  
## [3997] 1-2 Years 6-7 Years 4-5 Years 0-1 Years 4-5 Years 4-5 Years  
## [4003] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years  
## [4009] 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [4015] 5-6 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years  
## [4021] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [4027] 6-7 Years 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years  
## [4033] 6-7 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years 5-6 Years  
## [4039] 5-6 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years 5-6 Years  
## [4045] 6-7 Years 1-2 Years 4-5 Years 6-7 Years 5-6 Years 4-5 Years  
## [4051] 5-6 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years 5-6 Years  
## [4057] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 5-6 Years 1-2 Years  
## [4063] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years  
## [4069] 1-2 Years 6-7 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years  
## [4075] 5-6 Years 5-6 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years  
## [4081] 2-3 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years  
## [4087] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years  
## [4093] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years  
## [4099] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years  
## [4105] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years  
## [4111] 6-7 Years 1-2 Years 5-6 Years 2-3 Years 5-6 Years 5-6 Years  
## [4117] 1-2 Years 6-7 Years 4-5 Years 2-3 Years 2-3 Years 2-3 Years  
## [4123] 5-6 Years 2-3 Years 1-2 Years 4-5 Years 0-1 Years 5-6 Years  
## [4129] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years 5-6 Years  
## [4135] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years  
## [4141] 6-7 Years 2-3 Years 6-7 Years 2-3 Years 1-2 Years 1-2 Years  
## [4147] 2-3 Years 6-7 Years 2-3 Years 6-7 Years 0-1 Years 5-6 Years  
## [4153] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [4159] 4-5 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years  
## [4165] 6-7 Years 0-1 Years 2-3 Years 5-6 Years 6-7 Years 1-2 Years  
## [4171] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years  
## [4177] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## [4183] 2-3 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 2-3 Years  
## [4189] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years  
## [4195] 6-7 Years 4-5 Years 6-7 Years 1-2 Years 5-6 Years 5-6 Years  
## [4201] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years  
## [4207] 6-7 Years 1-2 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years  
## [4213] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years  
## [4219] 0-1 Years 4-5 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years  
## [4225] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [4231] 0-1 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years  
## [4237] 0-1 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 1-2 Years  
## [4243] 0-1 Years 4-5 Years 4-5 Years 6-7 Years 6-7 Years 6-7 Years  
## [4249] 5-6 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years  
## [4255] 2-3 Years 1-2 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Years  
## [4261] 4-5 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [4267] 6-7 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 2-3 Years  
## [4273] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years  
## [4279] 4-5 Years 2-3 Years 6-7 Years 5-6 Years 5-6 Years 0-1 Years  
## [4285] 2-3 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years  
## [4291] 0-1 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years  
## [4297] 2-3 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years  
## [4303] 5-6 Years 4-5 Years 5-6 Years 2-3 Years 4-5 Years 4-5 Years  
## [4309] 2-3 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years  
## [4315] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years  
## [4321] 6-7 Years 1-2 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years  
## [4327] 0-1 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Years 6-7 Years  
## [4333] 5-6 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years  
## [4339] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years  
## [4345] 6-7 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 0-1 Years  
## [4351] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years  
## [4357] 0-1 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Years 2-3 Years  
## [4363] 5-6 Years 5-6 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years  
## [4369] 0-1 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years 2-3 Years  
## [4375] 6-7 Years 6-7 Years 4-5 Years 1-2 Years 6-7 Years 6-7 Years  
## [4381] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [4387] 5-6 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years  
## [4393] 0-1 Years 1-2 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years  
## [4399] 6-7 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years 2-3 Years  
## [4405] 1-2 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Years  
## [4411] 1-2 Years 5-6 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years  
## [4417] 1-2 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years 2-3 Years  
## [4423] 2-3 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Years 5-6 Years  
## [4429] 1-2 Years 6-7 Years 2-3 Years 1-2 Years 4-5 Years 0-1 Years  
## [4435] 1-2 Years 1-2 Years 1-2 Years 5-6 Years 5-6 Years 2-3 Years  
## [4441] 4-5 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [4447] 0-1 Years 6-7 Years 2-3 Years 5-6 Years 1-2 Years 4-5 Years  
## [4453] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years  
## [4459] 4-5 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years  
## [4465] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 1-2 Years 5-6 Years  
## [4471] 0-1 Years 4-5 Years 6-7 Years 2-3 Years 5-6 Years 0-1 Years  
## [4477] 0-1 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years  
## [4483] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years  
## [4489] 4-5 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Years 1-2 Years  
## [4495] 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years  
## [4501] 6-7 Years 4-5 Years 5-6 Years 1-2 Years 4-5 Years 6-7 Years  
## [4507] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 4-5 Years 1-2 Years  
## [4513] 6-7 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [4519] 0-1 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years  
## [4525] 1-2 Years 2-3 Years 1-2 Years 4-5 Years 4-5 Years 0-1 Years  
## [4531] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years  
## [4537] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [4543] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [4549] 1-2 Years 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years  
## [4555] 1-2 Years 1-2 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years  
## [4561] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## [4567] 6-7 Years 2-3 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years  
## [4573] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years  
## [4579] 0-1 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years 6-7 Years  
## [4585] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 2-3 Years 0-1 Years  
## [4591] 5-6 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 6-7 Years  
## [4597] 1-2 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Years 4-5 Years  
## [4603] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years  
## [4609] 5-6 Years 2-3 Years 6-7 Years 6-7 Years 6-7 Years 5-6 Years  
## [4615] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years  
## [4621] 6-7 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [4627] 6-7 Years 5-6 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years  
## [4633] 0-1 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years 6-7 Years  
## [4639] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [4645] 1-2 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years  
## [4651] 4-5 Years 1-2 Years 1-2 Years 2-3 Years 4-5 Years 2-3 Years  
## [4657] 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [4663] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years  
## [4669] 0-1 Years 5-6 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Years  
## [4675] 2-3 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years  
## [4681] 1-2 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 4-5 Years  
## [4687] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 5-6 Years  
## [4693] 1-2 Years 5-6 Years 1-2 Years 2-3 Years 5-6 Years 6-7 Years  
## [4699] 6-7 Years 5-6 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Years  
## [4705] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years  
## [4711] 0-1 Years 2-3 Years 5-6 Years 5-6 Years 6-7 Years 6-7 Years  
## [4717] 6-7 Years 4-5 Years 1-2 Years 2-3 Years 6-7 Years 0-1 Years  
## [4723] 5-6 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years  
## [4729] 4-5 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [4735] 4-5 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [4741] 1-2 Years 1-2 Years 6-7 Years 5-6 Years 6-7 Years 2-3 Years  
## [4747] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years  
## [4753] 1-2 Years 0-1 Years 6-7 Years 2-3 Years 2-3 Years 0-1 Years  
## [4759] 5-6 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years 5-6 Years  
## [4765] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years  
## [4771] 0-1 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years 1-2 Years  
## [4777] 0-1 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years  
## [4783] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years  
## [4789] 5-6 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 5-6 Years  
## [4795] 0-1 Years 5-6 Years 5-6 Years 6-7 Years 2-3 Years 0-1 Years  
## [4801] 0-1 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Years 5-6 Years  
## [4807] 6-7 Years 2-3 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Years  
## [4813] 0-1 Years 4-5 Years 1-2 Years 4-5 Years 5-6 Years 0-1 Years  
## [4819] 6-7 Years 5-6 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years  
## [4825] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 4-5 Years 0-1 Years  
## [4831] 5-6 Years 1-2 Years 2-3 Years 4-5 Years 6-7 Years 6-7 Years  
## [4837] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years  
## [4843] 0-1 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 4-5 Years  
## [4849] 0-1 Years 4-5 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years  
## [4855] 1-2 Years 6-7 Years 2-3 Years 1-2 Years 5-6 Years 6-7 Years  
## [4861] 1-2 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years  
## [4867] 1-2 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years 5-6 Years  
## [4873] 6-7 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Years  
## [4879] 2-3 Years 4-5 Years 5-6 Years 2-3 Years 6-7 Years 0-1 Years  
## [4885] 4-5 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years 4-5 Years  
## [4891] 5-6 Years 0-1 Years 1-2 Years 0-1 Years 5-6 Years 4-5 Years  
## [4897] 1-2 Years 1-2 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years  
## [4903] 1-2 Years 0-1 Years 2-3 Years 5-6 Years 6-7 Years 6-7 Years  
## [4909] 2-3 Years 5-6 Years 2-3 Years 6-7 Years 2-3 Years 1-2 Years  
## [4915] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years  
## [4921] 6-7 Years 4-5 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years  
## [4927] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [4933] 2-3 Years 0-1 Years 6-7 Years 4-5 Years 4-5 Years 2-3 Years  
## [4939] 1-2 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years  
## [4945] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years  
## [4951] 0-1 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years  
## [4957] 0-1 Years 1-2 Years 5-6 Years 0-1 Years 5-6 Years 1-2 Years  
## [4963] 1-2 Years 4-5 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years  
## [4969] 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 1-2 Years  
## [4975] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years  
## [4981] 1-2 Years 1-2 Years 6-7 Years 4-5 Years 4-5 Years 6-7 Years  
## [4987] 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years  
## [4993] 5-6 Years 6-7 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Years  
## [4999] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years  
## [5005] 6-7 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Years  
## [5011] 6-7 Years 4-5 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
## [5017] 0-1 Years 4-5 Years 6-7 Years 1-2 Years 4-5 Years 1-2 Years  
## [5023] 6-7 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years  
## [5029] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
## [5035] 4-5 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years  
## [5041] 1-2 Years 1-2 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Years  
## [5047] 0-1 Years 4-5 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years  
## [5053] 1-2 Years 1-2 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years  
## [5059] 2-3 Years 2-3 Years 1-2 Years 5-6 Years 4-5 Years 1-2 Years  
## [5065] 0-1 Years 2-3 Years 4-5 Years 2-3 Years 6-7 Years 0-1 Years  
## [5071] 2-3 Years 0-1 Years 1-2 Years 1-2 Years 5-6 Years 4-5 Years  
## [5077] 2-3 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 5-6 Years  
## [5083] 1-2 Years 4-5 Years 1-2 Years 4-5 Years 4-5 Years 0-1 Years  
## [5089] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [5095] 6-7 Years 5-6 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [5101] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 1-2 Years 4-5 Years  
## [5107] 5-6 Years 4-5 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years  
## [5113] 0-1 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years  
## [5119] 4-5 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 1-2 Years  
## [5125] 2-3 Years 0-1 Years 5-6 Years 6-7 Years 4-5 Years 1-2 Years  
## [5131] 0-1 Years 4-5 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years  
## [5137] 0-1 Years 5-6 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years  
## [5143] 6-7 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years  
## [5149] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Years  
## [5155] 1-2 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Years 0-1 Years  
## [5161] 0-1 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [5167] 6-7 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [5173] 5-6 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 2-3 Years  
## [5179] 5-6 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years  
## [5185] 6-7 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years  
## [5191] 2-3 Years 1-2 Years 5-6 Years 6-7 Years 1-2 Years 6-7 Years  
## [5197] 6-7 Years 6-7 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Years  
## [5203] 5-6 Years 0-1 Years 4-5 Years 4-5 Years 4-5 Years 1-2 Years  
## [5209] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years  
## [5215] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years  
## [5221] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [5227] 0-1 Years 0-1 Years 0-1 Years 4-5 Years 5-6 Years 1-2 Years  
## [5233] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 4-5 Years 2-3 Years  
## [5239] 2-3 Years 6-7 Years 6-7 Years 5-6 Years 1-2 Years 1-2 Years  
## [5245] 4-5 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years  
## [5251] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Years  
## [5257] 5-6 Years 4-5 Years 6-7 Years 2-3 Years 2-3 Years 5-6 Years  
## [5263] 5-6 Years 5-6 Years 6-7 Years 6-7 Years 4-5 Years 0-1 Years  
## [5269] 6-7 Years 0-1 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years  
## [5275] 6-7 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Years  
## [5281] 2-3 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years  
## [5287] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years  
## [5293] 4-5 Years 2-3 Years 5-6 Years 5-6 Years 5-6 Years 5-6 Years  
## [5299] 5-6 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years  
## [5305] 1-2 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years  
## [5311] 4-5 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years  
## [5317] 5-6 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years 6-7 Years  
## [5323] 2-3 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 2-3 Years  
## [5329] 5-6 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years 1-2 Years  
## [5335] 5-6 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years 2-3 Years  
## [5341] 4-5 Years 0-1 Years 4-5 Years 5-6 Years 6-7 Years 2-3 Years  
## [5347] 6-7 Years 6-7 Years 2-3 Years 6-7 Years 5-6 Years 0-1 Years  
## [5353] 2-3 Years 1-2 Years 0-1 Years 4-5 Years 2-3 Years 5-6 Years  
## [5359] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [5365] 1-2 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years  
## [5371] 1-2 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [5377] 1-2 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years  
## [5383] 5-6 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years  
## [5389] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [5395] 4-5 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years  
## [5401] 2-3 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 2-3 Years  
## [5407] 6-7 Years 6-7 Years 5-6 Years 2-3 Years 6-7 Years 0-1 Years  
## [5413] 6-7 Years 1-2 Years 6-7 Years 1-2 Years 5-6 Years 1-2 Years  
## [5419] 1-2 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years  
## [5425] 6-7 Years 2-3 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Years  
## [5431] 0-1 Years 4-5 Years 0-1 Years 5-6 Years 2-3 Years 4-5 Years  
## [5437] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years  
## [5443] 6-7 Years 2-3 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years  
## [5449] 4-5 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years  
## [5455] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years  
## [5461] 2-3 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years  
## [5467] 0-1 Years 5-6 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years  
## [5473] 1-2 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [5479] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years  
## [5485] 6-7 Years 0-1 Years 5-6 Years 2-3 Years 4-5 Years 0-1 Years  
## [5491] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years  
## [5497] 4-5 Years 5-6 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Years  
## [5503] 1-2 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years  
## [5509] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years  
## [5515] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years  
## [5521] 5-6 Years 5-6 Years 0-1 Years 0-1 Years 4-5 Years 5-6 Years  
## [5527] 5-6 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Years  
## [5533] 2-3 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Years 6-7 Years  
## [5539] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years  
## [5545] 5-6 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [5551] 1-2 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years  
## [5557] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years  
## [5563] 5-6 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 5-6 Years  
## [5569] 4-5 Years 0-1 Years 4-5 Years 6-7 Years 6-7 Years 0-1 Years  
## [5575] 4-5 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years 6-7 Years  
## [5581] 4-5 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years  
## [5587] 2-3 Years 4-5 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years  
## [5593] 1-2 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years  
## [5599] 5-6 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years  
## [5605] 1-2 Years 0-1 Years 1-2 Years 4-5 Years 1-2 Years 2-3 Years  
## [5611] 0-1 Years 5-6 Years 4-5 Years 6-7 Years 6-7 Years 0-1 Years  
## [5617] 4-5 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years  
## [5623] 1-2 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years  
## [5629] 1-2 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years  
## [5635] 0-1 Years 1-2 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years  
## [5641] 0-1 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years  
## [5647] 0-1 Years 4-5 Years 2-3 Years 2-3 Years 4-5 Years 4-5 Years  
## [5653] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years  
## [5659] 1-2 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 4-5 Years  
## [5665] 0-1 Years 2-3 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years  
## [5671] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [5677] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years  
## [5683] 0-1 Years 4-5 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Years  
## [5689] 4-5 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## [5695] 2-3 Years 6-7 Years 1-2 Years 6-7 Years 1-2 Years 1-2 Years  
## [5701] 2-3 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years  
## [5707] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years  
## [5713] 1-2 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years  
## [5719] 0-1 Years 1-2 Years 2-3 Years 2-3 Years 2-3 Years 5-6 Years  
## [5725] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years 2-3 Years  
## [5731] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 4-5 Years  
## [5737] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years  
## [5743] 6-7 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years  
## [5749] 1-2 Years 5-6 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years  
## [5755] 1-2 Years 1-2 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years  
## [5761] 1-2 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years  
## [5767] 1-2 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 0-1 Years  
## [5773] 6-7 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years  
## [5779] 0-1 Years 4-5 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years  
## [5785] 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years  
## [5791] 4-5 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years  
## [5797] 4-5 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years  
## [5803] 4-5 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years  
## [5809] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years  
## [5815] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [5821] 5-6 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [5827] 0-1 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Years 0-1 Years  
## [5833] 1-2 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [5839] 5-6 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years  
## [5845] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years  
## [5851] 1-2 Years 2-3 Years 1-2 Years 6-7 Years 1-2 Years 5-6 Years  
## [5857] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years  
## [5863] 1-2 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Years 4-5 Years  
## [5869] 0-1 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [5875] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years  
## [5881] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years  
## [5887] 4-5 Years 1-2 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years  
## [5893] 0-1 Years 0-1 Years 4-5 Years 4-5 Years 6-7 Years 6-7 Years  
## [5899] 2-3 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 5-6 Years  
## [5905] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years  
## [5911] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Years 6-7 Years  
## [5917] 6-7 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 2-3 Years  
## [5923] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years  
## [5929] 6-7 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years  
## [5935] 2-3 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Years  
## [5941] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [5947] 4-5 Years 2-3 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years  
## [5953] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 1-2 Years  
## [5959] 0-1 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years  
## [5965] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years  
## [5971] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years  
## [5977] 2-3 Years 5-6 Years 4-5 Years 5-6 Years 1-2 Years 4-5 Years  
## [5983] 1-2 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years  
## [5989] 0-1 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [5995] 4-5 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years  
## [6001] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [6007] 1-2 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 4-5 Years  
## [6013] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [6019] 2-3 Years 4-5 Years 2-3 Years 1-2 Years 1-2 Years 5-6 Years  
## [6025] 0-1 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years  
## [6031] 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years  
## [6037] 5-6 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [6043] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years  
## [6049] 2-3 Years 4-5 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years  
## [6055] 2-3 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years 4-5 Years  
## [6061] 0-1 Years 2-3 Years 5-6 Years 6-7 Years 0-1 Years 5-6 Years  
## [6067] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years  
## [6073] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [6079] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years  
## [6085] 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [6091] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years  
## [6097] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years  
## [6103] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years  
## [6109] 1-2 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years  
## [6115] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 6-7 Years 1-2 Years  
## [6121] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 5-6 Years 1-2 Years  
## [6127] 1-2 Years 5-6 Years 1-2 Years 5-6 Years 5-6 Years 4-5 Years  
## [6133] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years  
## [6139] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years  
## [6145] 1-2 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Years 0-1 Years  
## [6151] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 0-1 Years  
## [6157] 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [6163] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years  
## [6169] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years  
## [6175] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years  
## [6181] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 4-5 Years 5-6 Years  
## [6187] 4-5 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years  
## [6193] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years  
## [6199] 2-3 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Years  
## [6205] 1-2 Years 4-5 Years 5-6 Years 4-5 Years 6-7 Years 2-3 Years  
## [6211] 2-3 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Years  
## [6217] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years  
## [6223] 6-7 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years  
## [6229] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
## [6235] 5-6 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years  
## [6241] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 5-6 Years  
## [6247] 5-6 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [6253] 5-6 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [6259] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 4-5 Years 2-3 Years  
## [6265] 4-5 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years 2-3 Years  
## [6271] 2-3 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years  
## [6277] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years  
## [6283] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years 2-3 Years  
## [6289] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 4-5 Years 1-2 Years  
## [6295] 0-1 Years 4-5 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Years  
## [6301] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years  
## [6307] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years  
## [6313] 5-6 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years  
## [6319] 0-1 Years 5-6 Years 2-3 Years 2-3 Years 0-1 Years 4-5 Years  
## [6325] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years 4-5 Years  
## [6331] 1-2 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Years  
## [6337] 5-6 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years  
## [6343] 4-5 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years  
## [6349] 2-3 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years  
## [6355] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [6361] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [6367] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years  
## [6373] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years  
## [6379] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years  
## [6385] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years  
## [6391] 6-7 Years 4-5 Years 5-6 Years 2-3 Years 0-1 Years 4-5 Years  
## [6397] 2-3 Years 5-6 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years  
## [6403] 5-6 Years 6-7 Years 5-6 Years 5-6 Years 4-5 Years 1-2 Years  
## [6409] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years  
## [6415] 4-5 Years 5-6 Years 6-7 Years 5-6 Years 2-3 Years 6-7 Years  
## [6421] 2-3 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Years  
## [6427] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years  
## [6433] 2-3 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years  
## [6439] 0-1 Years 2-3 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [6445] 2-3 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Years  
## [6451] 2-3 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years 5-6 Years  
## [6457] 5-6 Years 1-2 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years  
## [6463] 0-1 Years 5-6 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years  
## [6469] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years  
## [6475] 0-1 Years 1-2 Years 5-6 Years 6-7 Years 5-6 Years 0-1 Years  
## [6481] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years  
## [6487] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [6493] 1-2 Years 1-2 Years 2-3 Years 0-1 Years 4-5 Years 5-6 Years  
## [6499] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Years 6-7 Years  
## [6505] 0-1 Years 5-6 Years 1-2 Years 5-6 Years 4-5 Years 0-1 Years  
## [6511] 4-5 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
## [6517] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [6523] 4-5 Years 1-2 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years  
## [6529] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 2-3 Years  
## [6535] 5-6 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years  
## [6541] 2-3 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years  
## [6547] 1-2 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years  
## [6553] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years  
## [6559] 1-2 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years  
## [6565] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years  
## [6571] 0-1 Years 2-3 Years 6-7 Years 4-5 Years 0-1 Years 1-2 Years  
## [6577] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years  
## [6583] 6-7 Years 1-2 Years 5-6 Years 4-5 Years 4-5 Years 6-7 Years  
## [6589] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years  
## [6595] 1-2 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years  
## [6601] 0-1 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years  
## [6607] 4-5 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years  
## [6613] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years  
## [6619] 2-3 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [6625] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [6631] 1-2 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years  
## [6637] 0-1 Years 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Years  
## [6643] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years  
## [6649] 1-2 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 2-3 Years  
## [6655] 0-1 Years 6-7 Years 4-5 Years 5-6 Years 2-3 Years 6-7 Years  
## [6661] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years  
## [6667] 2-3 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years  
## [6673] 2-3 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Years 1-2 Years  
## [6679] 1-2 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Years  
## [6685] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## [6691] 4-5 Years 4-5 Years 4-5 Years 2-3 Years 0-1 Years 6-7 Years  
## [6697] 0-1 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years 2-3 Years  
## [6703] 1-2 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years 6-7 Years  
## [6709] 1-2 Years 5-6 Years 4-5 Years 5-6 Years 2-3 Years 6-7 Years  
## [6715] 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [6721] 6-7 Years 5-6 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years  
## [6727] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years  
## [6733] 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years  
## [6739] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years  
## [6745] 6-7 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [6751] 4-5 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years  
## [6757] 1-2 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years  
## [6763] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years  
## [6769] 6-7 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years  
## [6775] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years  
## [6781] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Years  
## [6787] 0-1 Years 2-3 Years 2-3 Years 0-1 Years 6-7 Years 1-2 Years  
## [6793] 5-6 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 2-3 Years  
## [6799] 1-2 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 4-5 Years  
## [6805] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years  
## [6811] 1-2 Years 0-1 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years  
## [6817] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years  
## [6823] 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years  
## [6829] 0-1 Years 0-1 Years 2-3 Years 0-1 Years 5-6 Years 1-2 Years  
## [6835] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [6841] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Years  
## [6847] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years  
## [6853] 4-5 Years 5-6 Years 0-1 Years 4-5 Years 5-6 Years 5-6 Years  
## [6859] 2-3 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 4-5 Years  
## [6865] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 4-5 Years  
## [6871] 5-6 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years  
## [6877] 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
## [6883] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years  
## [6889] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years  
## [6895] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years  
## [6901] 5-6 Years 2-3 Years 5-6 Years 2-3 Years 6-7 Years 2-3 Years  
## [6907] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years  
## [6913] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years  
## [6919] 2-3 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Years  
## [6925] 0-1 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Years  
## [6931] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [6937] 0-1 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years  
## [6943] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [6949] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 1-2 Years  
## [6955] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years  
## [6961] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years  
## [6967] 5-6 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [6973] 5-6 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years  
## [6979] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years  
## [6985] 2-3 Years 4-5 Years 2-3 Years 2-3 Years 1-2 Years 1-2 Years  
## [6991] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Years  
## [6997] 4-5 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [7003] 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years  
## [7009] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years  
## [7015] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years  
## [7021] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years  
## [7027] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years  
## [7033] 0-1 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years  
## [7039] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## Levels: 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years

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

##   
## FALSE TRUE   
## 154935 11

str\_detect(tablechurn,'NA')

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

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

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

## [1] 11

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

## [1] 7032 22

str(tablechurn)

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

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

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

dim(tablechurn)

## [1] 7032 22

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

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

coefficients(fit)

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

confint(fit,level=0.95)

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

# Predicted Values  
fitted(fit)

## 1 2 3 4 5 6 7 8   
## 1.578780 1.880416 1.678410 1.937790 1.401416 1.282747 1.476809 1.688546   
## 9 10 11 12 13 14 15 16   
## 1.483933 2.077254 1.717267 1.959292 1.716204 1.614848 1.574554 2.055288   
## 17 18 19 20 21 22 23 24   
## 1.980638 1.946143 1.775126 1.491103 1.463953 1.903086 1.808091 1.977252   
## 25 26 27 28 29 30 31 32   
## 2.043183 1.807653 1.593758 1.654338 2.093027 1.579966 1.968530 1.253056   
## 33 34 35 36 37 38 39 40   
## 1.965696 1.831151 1.614298 2.076464 1.426442 1.670198 1.477226 1.331630   
## 41 42 43 44 45 46 47 48   
## 1.766935 2.038720 1.912051 2.059164 1.664647 1.565201 1.671200 1.344092   
## 49 50 51 52 53 54 55 56   
## 1.930623 2.104153 1.515463 1.465457 1.676756 1.351189 2.021071 1.291050   
## 57 58 59 60 61 62 63 64   
## 1.781483 1.805298 1.969694 1.881547 1.541334 1.699777 2.046809 1.809192   
## 65 66 67 68 69 70 71 72   
## 1.333968 1.565537 1.674989 1.870027 2.064647 1.513946 1.705424 1.965679   
## 73 74 75 76 77 78 79 80   
## 1.873543 2.010794 1.700504 1.747586 1.846266 1.770401 1.664160 1.904618   
## 81 82 83 84 85 86 87 88   
## 1.372681 1.611991 1.450257 1.676852 1.990957 1.317690 1.803056 2.064079   
## 89 90 91 92 93 94 95 96   
## 1.985485 1.655493 1.678477 1.462609 2.048314 1.773511 1.885400 1.465507   
## 97 98 99 100 101 102 103 104   
## 2.087871 1.812913 2.052542 1.433993 1.807719 1.839330 1.701129 1.843590   
## 105 106 107 108 109 110 111 112   
## 1.909429 1.623075 1.862220 1.797630 1.588948 2.125687 1.703197 2.067152   
## 113 114 115 116 117 118 119 120   
## 1.625557 1.483028 1.910856 1.505913 1.874101 1.365834 1.995244 1.598261   
## 121 122 123 124 125 126 127 128   
## 1.678007 1.813203 1.360900 1.735683 1.828319 1.756831 1.460416 2.024418   
## 129 130 131 132 133 134 135 136   
## 1.811065 1.825419 1.354619 1.678997 2.080151 1.503333 1.659097 1.921895   
## 137 138 139 140 141 142 143 144   
## 1.595700 2.082281 2.024825 1.337741 2.082207 1.667438 1.741134 1.848846   
## 145 146 147 148 149 150 151 152   
## 2.021598 1.969717 1.860476 1.595521 1.840735 1.714669 1.607434 1.311814   
## 153 154 155 156 157 158 159 160   
## 1.911209 2.136435 1.842904 1.451123 1.431457 1.928965 1.833269 1.880133   
## 161 162 163 164 165 166 167 168   
## 1.742501 1.536136 1.408051 1.959287 1.893565 2.077412 1.425178 2.103867   
## 169 170 171 172 173 174 175 176   
## 1.706550 1.873010 1.830838 1.298163 1.755045 1.689753 1.952199 1.848398   
## 177 178 179 180 181 182 183 184   
## 1.366191 1.492174 1.383646 1.975877 1.645693 1.636684 1.398348 1.846331   
## 185 186 187 188 189 190 191 192   
## 1.503334 1.560543 1.679969 1.673597 1.890233 1.785555 1.882053 1.392101   
## 193 194 195 196 197 198 199 200   
## 2.122525 2.006352 2.095801 1.584380 1.904834 1.728209 1.945436 1.827519   
## 201 202 203 204 205 206 207 208   
## 1.607545 1.557549 1.938621 1.461861 1.693158 1.722184 2.084625 1.397726   
## 209 210 211 212 213 214 215 216   
## 1.513385 1.881538 1.604401 1.609233 2.078333 1.951910 1.406809 1.815652   
## 217 218 219 220 221 222 223 224   
## 2.141182 2.030928 2.012778 1.399521 1.414931 2.065977 1.830162 1.708001   
## 225 226 227 228 229 230 231 232   
## 1.854783 1.637301 1.822625 1.578921 1.536051 1.948968 1.848374 1.817120   
## 233 234 235 236 237 238 239 240   
## 1.396043 2.103744 1.834308 1.560730 1.726035 1.449440 1.324249 1.935483   
## 241 242 243 244 245 246 247 248   
## 2.083875 1.987960 1.894560 1.842952 1.626327 1.471787 1.767586 1.452888   
## 249 250 251 252 253 254 255 256   
## 1.657543 1.701082 1.792042 1.475926 1.523516 1.823266 1.784062 1.956047   
## 257 258 259 260 261 262 263 264   
## 1.982088 1.845230 1.609013 1.618156 1.460869 1.274606 1.599191 1.859793   
## 265 266 267 268 269 270 271 272   
## 1.784124 2.101678 2.002073 1.484980 2.052810 2.006205 1.393881 2.083862   
## 273 274 275 276 277 278 279 280   
## 1.632151 1.426340 1.442752 1.437522 1.618962 1.678835 1.569121 1.693631   
## 281 282 283 284 285 286 287 288   
## 1.732877 1.694655 1.766519 1.938081 1.474004 1.507899 1.678816 1.453310   
## 289 290 291 292 293 294 295 296   
## 1.416179 1.644598 1.410053 1.912877 1.710600 1.273771 1.836325 1.807347   
## 297 298 299 300 301 302 303 304   
## 1.950786 1.407030 1.673911 1.481458 1.656382 1.193380 1.422811 2.010506   
## 305 306 307 308 309 310 311 312   
## 1.586482 2.006671 1.461325 1.841411 1.513208 1.834106 1.783942 1.587770   
## 313 314 315 316 317 318 319 320   
## 1.820681 1.374536 1.367502 1.853866 2.047348 1.947027 1.405860 1.558567   
## 321 322 323 324 325 326 327 328   
## 1.937659 1.969354 1.601841 1.801265 2.006232 1.669845 1.421263 1.353244   
## 329 330 331 332 333 334 335 336   
## 1.563162 1.382556 1.958063 1.822794 1.662600 1.382364 1.389533 2.018779   
## 337 338 339 340 341 342 343 344   
## 1.649719 2.080551 1.552252 1.704365 1.832840 2.163871 1.972960 2.019964   
## 345 346 347 348 349 350 351 352   
## 1.946194 1.312522 1.288649 2.098836 1.532496 1.895990 1.962254 1.772317   
## 353 354 355 356 357 358 359 360   
## 1.277285 1.427652 1.568805 1.411219 1.615913 1.839847 1.703344 1.693005   
## 361 362 363 364 365 366 367 368   
## 1.841607 1.737107 1.944183 1.961459 1.564808 1.376687 1.717408 1.811576   
## 369 370 371 372 373 374 375 376   
## 1.766785 2.030802 1.958044 1.290066 1.900561 1.814090 1.552348 1.856674   
## 377 378 379 380 381 382 383 384   
## 1.604630 1.468567 2.064418 1.580815 1.762957 1.656641 2.018495 1.307108   
## 385 386 387 388 389 390 391 392   
## 1.667400 1.784582 1.647884 1.868036 1.558863 1.682000 1.410470 1.628845   
## 393 394 395 396 397 398 399 400   
## 1.555476 1.854190 1.442136 2.061331 1.548549 1.617216 1.607268 1.927192   
## 401 402 403 404 405 406 407 408   
## 1.956615 1.891327 1.740868 2.115208 1.899237 2.055659 1.819860 1.475806   
## 409 410 411 412 413 414 415 416   
## 1.755677 1.761858 1.314725 1.893282 1.494120 1.754625 1.618424 1.603772   
## 417 418 419 420 421 422 423 424   
## 1.940837 1.921689 1.572946 1.368814 1.734960 1.450626 1.674956 1.937595   
## 425 426 427 428 429 430 431 432   
## 1.735400 1.773450 1.617933 1.403595 1.453047 2.081709 1.942429 2.056577   
## 433 434 435 436 437 438 439 440   
## 1.726328 1.655969 1.965037 1.677111 1.962289 2.037632 1.573590 1.702800   
## 441 442 443 444 445 446 447 448   
## 1.457823 1.614753 1.791465 1.694197 1.594998 1.667685 1.446609 1.976090   
## 449 450 451 452 453 454 455 456   
## 1.364878 2.095906 1.980061 1.708428 1.822560 1.513488 2.006697 1.418366   
## 457 458 459 460 461 462 463 464   
## 1.757160 1.895354 1.810101 1.344307 1.848290 1.636731 1.318750 1.290069   
## 465 466 467 468 469 470 471 472   
## 1.953161 1.898177 1.835060 1.829674 2.031486 1.659050 1.835946 1.542312   
## 473 474 475 476 477 478 479 480   
## 1.519450 1.865185 1.443765 1.492612 1.719191 1.724548 1.362394 1.569439   
## 481 482 483 484 485 486 487 488   
## 1.946986 1.760988 1.395996 1.900934 1.438152 1.838442 1.335325 2.014837   
## 489 490 491 492 493 494 495 496   
## 1.373773 1.818655 1.570188 1.462760 1.864598 1.806232 1.677539 1.897375   
## 497 498 499 500 501 502 503 504   
## 2.101091 1.603106 1.455965 1.706195 1.838767 2.009941 1.865370 2.133258   
## 505 506 507 508 509 510 511 512   
## 1.382320 1.437652 1.355069 1.445308 1.806371 1.660475 1.699818 1.314274   
## 513 514 515 516 517 518 519 520   
## 1.705820 1.677417 1.631897 1.919155 1.417598 1.556868 1.855611 1.782780   
## 521 522 523 524 525 526 527 528   
## 1.595910 1.701618 1.526629 1.463309 1.816916 1.971188 1.809246 2.011494   
## 529 530 531 532 533 534 535 536   
## 1.797561 1.932999 2.117311 1.354852 1.786125 1.283059 1.363136 1.722267   
## 537 538 539 540 541 542 543 544   
## 1.894608 1.806891 2.030307 2.037228 1.523578 1.808601 1.349903 1.670044   
## 545 546 547 548 549 550 551 552   
## 1.623378 1.599600 1.809528 1.707879 1.849657 1.954889 2.017056 2.094486   
## 553 554 555 556 557 558 559 560   
## 1.876403 1.558943 1.913480 1.829431 1.951348 1.506030 1.661054 1.727763   
## 561 562 563 564 565 566 567 568   
## 1.714671 1.655457 1.749947 1.704842 2.137327 1.605268 2.156393 1.463718   
## 569 570 571 572 573 574 575 576   
## 1.723864 2.038949 1.935813 1.749840 1.723570 1.452480 2.024344 1.660344   
## 577 578 579 580 581 582 583 584   
## 1.441712 1.537722 1.764155 1.864424 1.495251 1.263267 1.784544 1.760447   
## 585 586 587 588 589 590 591 592   
## 1.228963 1.978109 1.883491 1.953088 2.172089 1.953490 1.958079 2.061622   
## 593 594 595 596 597 598 599 600   
## 1.665904 1.638404 1.720591 1.840004 1.590498 1.670021 2.034901 1.553262   
## 601 602 603 604 605 606 607 608   
## 1.855471 1.784045 1.778794 1.635687 2.100267 1.976079 2.000053 2.083624   
## 609 610 611 612 613 614 615 616   
## 1.750828 1.630633 1.838609 2.092789 1.623953 1.953771 1.641460 1.590752   
## 617 618 619 620 621 622 623 624   
## 1.767969 1.845595 1.419186 1.529762 1.841864 1.652072 1.944964 1.844840   
## 625 626 627 628 629 630 631 632   
## 1.497962 1.557102 1.758442 1.903279 1.622830 1.598666 1.855930 2.180250   
## 633 634 635 636 637 638 639 640   
## 1.872553 1.795776 1.731750 1.711968 2.168190 1.709917 1.338405 2.072697   
## 641 642 643 644 645 646 647 648   
## 1.800509 1.293214 1.673357 1.766028 1.307046 1.587339 1.868589 1.310971   
## 649 650 651 652 653 654 655 656   
## 1.537362 1.430983 1.400727 2.006111 1.797251 1.784759 1.407397 2.108430   
## 657 658 659 660 661 662 663 664   
## 1.935090 1.877784 1.923771 1.567286 1.672006 1.808834 1.993397 2.093510   
## 665 666 667 668 669 670 671 672   
## 1.411425 1.459263 1.737851 1.646643 2.012890 1.984444 2.023895 1.332918   
## 673 674 675 676 677 678 679 680   
## 1.775452 1.639755 1.854403 1.955059 1.508063 1.288217 1.682580 1.419157   
## 681 682 683 684 685 686 687 688   
## 2.009990 1.675698 1.573238 1.435084 1.652642 1.916579 1.613853 1.835915   
## 689 690 691 692 693 694 695 696   
## 1.659255 1.755538 1.857521 2.015949 1.361651 1.802976 1.748387 2.044869   
## 697 698 699 700 701 702 703 704   
## 1.635690 1.678138 2.124409 1.947406 1.552552 1.460611 1.753197 1.680325   
## 705 706 707 708 709 710 711 712   
## 1.630791 2.103355 1.506852 1.573644 1.686196 1.812552 1.558955 1.971669   
## 713 714 715 716 717 718 719 720   
## 1.537084 2.036781 1.647307 2.016718 1.483317 1.561429 1.700851 1.875104   
## 721 722 723 724 725 726 727 728   
## 2.095661 1.318495 1.606085 1.391667 1.720644 1.887105 1.380776 1.600803   
## 729 730 731 732 733 734 735 736   
## 2.013236 1.658064 1.817061 1.576550 1.987792 1.515410 1.665535 1.617947   
## 737 738 739 740 741 742 743 744   
## 2.091732 1.571792 2.066721 1.951937 1.461047 1.407754 1.989434 1.626173   
## 745 746 747 748 749 750 751 752   
## 1.862248 1.974489 1.407537 2.020735 1.855022 1.775043 2.079149 1.709860   
## 753 754 755 756 757 758 759 760   
## 1.469654 1.317856 2.093347 1.811659 1.478909 2.044441 1.803258 1.471207   
## 761 762 763 764 765 766 767 768   
## 1.411286 2.173236 2.090924 1.523941 1.478401 1.907466 1.688975 1.784557   
## 769 770 771 772 773 774 775 776   
## 1.799160 1.335938 1.805999 1.426016 1.535754 1.921732 1.589849 1.355781   
## 777 778 779 780 781 782 783 784   
## 1.860511 1.652037 2.067949 1.678381 1.824003 1.635541 2.006814 1.618747   
## 785 786 787 788 789 790 791 792   
## 2.088861 1.809999 1.751318 2.197572 2.009204 1.965252 1.882086 2.012167   
## 793 794 795 796 797 798 799 800   
## 1.525591 1.618630 1.666876 1.793617 1.835241 1.716455 1.769803 1.357706   
## 801 802 803 804 805 806 807 808   
## 1.925189 1.939304 1.393227 1.934970 1.797750 1.953331 1.510593 1.408048   
## 809 810 811 812 813 814 815 816   
## 1.726907 1.926502 1.960241 1.849240 1.792672 1.423466 1.337256 1.833189   
## 817 818 819 820 821 822 823 824   
## 1.446264 2.001057 1.719542 1.972938 1.635532 1.639355 1.972469 1.496041   
## 825 826 827 828 829 830 831 832   
## 1.228000 1.803456 1.856173 1.719249 1.823850 1.983211 2.183582 1.562773   
## 833 834 835 836 837 838 839 840   
## 1.318480 1.738024 2.100486 1.647327 1.816239 2.025365 1.594388 1.883609   
## 841 842 843 844 845 846 847 848   
## 1.924441 1.663226 1.290611 1.903861 2.102632 1.847088 2.101295 2.173958   
## 849 850 851 852 853 854 855 856   
## 2.028820 1.966882 1.754271 1.675795 2.087810 1.725864 2.131424 1.663336   
## 857 858 859 860 861 862 863 864   
## 1.978093 2.060172 1.933677 1.933928 1.485329 1.318130 1.379927 1.468407   
## 865 866 867 868 869 870 871 872   
## 1.891649 1.762264 1.730446 1.806537 1.988974 1.783015 2.108345 1.711683   
## 873 874 875 876 877 878 879 880   
## 1.721259 1.520728 1.550017 1.932034 2.051011 1.714601 1.485675 1.889709   
## 881 882 883 884 885 886 887 888   
## 1.435828 1.866463 1.908226 1.758512 1.340728 1.494304 1.627852 1.800653   
## 889 890 891 892 893 894 895 896   
## 1.729149 1.636623 1.482777 1.614066 1.793431 1.555366 1.996364 1.757463   
## 897 898 899 900 901 902 903 904   
## 1.490804 1.702190 1.811067 1.357998 1.509113 1.808994 2.105018 1.236950   
## 905 906 907 908 909 910 911 912   
## 1.547424 1.762807 1.849073 1.906522 1.436138 1.403926 1.881640 1.898471   
## 913 914 915 916 917 918 919 920   
## 2.039835 1.303977 1.535577 2.044734 1.492016 1.547237 1.996052 1.836472   
## 921 922 923 924 925 926 927 928   
## 1.423205 1.893545 1.586400 1.922480 1.323890 1.480857 1.896723 1.627603   
## 929 930 931 932 933 934 935 936   
## 1.568632 1.812621 2.099520 1.255190 1.755120 1.262137 1.429174 1.838930   
## 937 938 939 940 941 942 943 944   
## 1.845042 1.952558 1.690830 1.493642 2.095578 1.719431 1.422181 1.785329   
## 945 946 947 948 949 950 951 952   
## 1.440557 1.419687 2.031936 1.596856 1.500778 1.849093 1.838945 1.371753   
## 953 954 955 956 957 958 959 960   
## 1.659003 2.083406 1.711482 1.809800 1.565138 1.654450 1.842661 1.642345   
## 961 962 963 964 965 966 967 968   
## 2.005995 1.587339 1.454990 1.837474 1.832190 2.199755 1.224588 1.332150   
## 969 970 971 972 973 974 975 976   
## 1.704276 2.074866 1.669826 1.992708 1.946636 1.405446 1.448455 1.681333   
## 977 978 979 980 981 982 983 984   
## 1.940457 1.834326 2.026197 1.868324 1.275113 2.090867 1.506069 1.715461   
## 985 986 987 988 989 990 991 992   
## 1.834497 1.909854 1.982236 1.929151 2.019684 1.929773 1.886203 1.943377   
## 993 994 995 996 997 998 999 1000   
## 1.674786 1.585395 1.203458 2.106548 1.593999 1.327475 1.427248 1.438595   
## 1001 1002 1003 1004 1005 1006 1007 1008   
## 1.991890 1.863343 1.560683 1.445168 1.463188 1.530547 1.812991 1.654734   
## 1009 1010 1011 1012 1013 1014 1015 1016   
## 2.063554 1.405591 1.669052 1.715425 1.727166 2.093562 1.953265 1.573172   
## 1017 1018 1019 1020 1021 1022 1023 1024   
## 1.818887 1.891193 1.914810 1.337305 1.556779 1.583219 1.906934 1.229388   
## 1025 1026 1027 1028 1029 1030 1031 1032   
## 1.756216 1.464539 1.443494 1.703201 1.736002 1.306920 2.037362 2.152068   
## 1033 1034 1035 1036 1037 1038 1039 1040   
## 2.029996 2.001848 1.558597 1.705085 1.693867 1.377195 1.893057 1.544119   
## 1041 1042 1043 1044 1045 1046 1047 1048   
## 1.614316 1.852533 1.557377 1.985328 1.654818 1.878715 1.807858 1.570358   
## 1049 1050 1051 1052 1053 1054 1055 1056   
## 1.580935 1.738995 1.577156 1.480844 1.941213 1.366636 1.446392 1.337658   
## 1057 1058 1059 1060 1061 1062 1063 1064   
## 1.472121 1.913986 1.849705 1.861387 1.783276 1.846297 1.498368 2.022174   
## 1065 1066 1067 1068 1069 1070 1071 1072   
## 1.608638 1.596507 1.836400 1.474104 1.633741 1.748533 1.307055 1.801027   
## 1073 1074 1075 1076 1077 1078 1079 1080   
## 1.763946 1.951469 1.674337 1.739758 1.436392 1.950274 1.498458 1.345945   
## 1081 1082 1083 1084 1085 1086 1087 1088   
## 2.025749 1.425600 1.370330 1.691707 1.293285 1.430537 1.804050 1.760877   
## 1089 1090 1091 1092 1093 1094 1095 1096   
## 2.222420 2.035237 1.859978 1.343820 1.686924 1.500231 2.010739 1.622614   
## 1097 1098 1099 1100 1101 1102 1103 1104   
## 1.771401 1.887698 1.638742 1.743168 1.916226 1.391968 1.838068 2.056264   
## 1105 1106 1107 1108 1109 1110 1111 1112   
## 2.049424 1.777728 2.019283 1.497511 2.072733 1.563148 1.473246 1.873018   
## 1113 1114 1115 1116 1117 1118 1119 1120   
## 1.859597 1.707228 1.659377 2.069075 1.564297 1.899933 1.571778 1.867155   
## 1121 1122 1123 1124 1125 1126 1127 1128   
## 1.688266 1.477086 1.489023 1.890277 1.841191 1.510984 1.956203 1.617496   
## 1129 1130 1131 1132 1133 1134 1135 1136   
## 1.327489 1.841855 1.676453 1.956019 2.094176 2.107103 1.625664 1.835359   
## 1137 1138 1139 1140 1141 1142 1143 1144   
## 1.806117 1.793719 1.376433 1.683564 1.502589 1.633620 1.855922 1.487165   
## 1145 1146 1147 1148 1149 1150 1151 1152   
## 1.232097 1.372111 1.670614 1.821617 1.613591 1.895914 1.960538 2.081001   
## 1153 1154 1155 1156 1157 1158 1159 1160   
## 2.038801 1.689171 1.746307 1.299923 1.439959 1.589370 2.059231 1.388693   
## 1161 1162 1163 1164 1165 1166 1167 1168   
## 2.056165 1.934022 1.618520 1.686106 1.876763 1.808254 2.010775 1.738577   
## 1169 1170 1171 1172 1173 1174 1175 1176   
## 1.427344 1.767810 1.654938 1.472415 1.351096 1.872432 1.438836 1.585971   
## 1177 1178 1179 1180 1181 1182 1183 1184   
## 1.921740 1.607927 1.774844 1.728668 1.538577 1.477595 1.967919 1.798229   
## 1185 1186 1187 1188 1189 1190 1191 1192   
## 1.629359 1.416611 1.604854 1.978089 1.325834 1.929100 1.720815 1.599086   
## 1193 1194 1195 1196 1197 1198 1199 1200   
## 2.077886 1.817003 1.969764 1.544706 1.609227 1.667036 1.705143 2.006755   
## 1201 1202 1203 1204 1205 1206 1207 1208   
## 1.692353 1.345794 1.409415 1.612640 1.342101 1.799814 1.517105 1.598039   
## 1209 1210 1211 1212 1213 1214 1215 1216   
## 1.441506 2.121084 1.400284 1.374798 2.073893 1.941208 1.462669 1.769902   
## 1217 1218 1219 1220 1221 1222 1223 1224   
## 1.678216 1.581871 2.146297 1.339579 1.608398 1.564613 2.068048 1.718454   
## 1225 1226 1227 1228 1229 1230 1231 1232   
## 1.590927 2.078182 1.680848 1.764890 1.617123 2.080744 1.863663 1.772605   
## 1233 1234 1235 1236 1237 1238 1239 1240   
## 1.341749 1.889185 1.266939 1.606916 1.824750 1.675872 1.739406 1.648446   
## 1241 1242 1243 1244 1245 1246 1247 1248   
## 1.870605 1.376517 1.633478 1.648717 1.452271 1.642494 1.834098 1.463734   
## 1249 1250 1251 1252 1253 1254 1255 1256   
## 1.821106 1.380961 1.839822 1.612708 2.076354 1.706337 2.019979 1.653073   
## 1257 1258 1259 1260 1261 1262 1263 1264   
## 1.612797 1.515237 1.651494 1.693437 1.914012 1.780166 1.359922 2.005360   
## 1265 1266 1267 1268 1269 1270 1271 1272   
## 1.773270 1.999971 2.059750 1.923828 1.845627 1.675540 1.836106 2.123648   
## 1273 1274 1275 1276 1277 1278 1279 1280   
## 1.998700 2.064258 1.853560 1.881125 1.953693 1.919627 1.494067 1.869683   
## 1281 1282 1283 1284 1285 1286 1287 1288   
## 2.075832 1.282200 1.649480 1.556918 2.066976 2.104797 2.019645 1.548160   
## 1289 1290 1291 1292 1293 1294 1295 1296   
## 2.022899 1.918459 1.672634 2.044816 1.465831 1.410597 1.763112 1.641291   
## 1297 1298 1299 1300 1301 1302 1303 1304   
## 1.921976 2.156986 1.941160 2.124012 1.335038 1.690846 1.986827 1.895947   
## 1305 1306 1307 1308 1309 1310 1311 1312   
## 1.313228 1.387385 1.421232 1.774652 1.906792 1.647599 1.727325 1.948084   
## 1313 1314 1315 1316 1317 1318 1319 1320   
## 1.775924 1.755130 1.626971 1.786863 1.742492 2.106701 1.800807 2.009841   
## 1321 1322 1323 1324 1325 1326 1327 1328   
## 1.832759 1.356188 1.882782 1.696233 1.808237 2.112556 1.848870 1.551844   
## 1329 1330 1331 1332 1333 1334 1335 1336   
## 2.067867 1.877338 1.509143 1.596885 1.558279 1.996022 1.808091 1.732686   
## 1337 1338 1339 1340 1341 1342 1343 1344   
## 1.586788 1.908851 1.976480 1.873201 1.672997 1.412950 1.893311 1.401909   
## 1345 1346 1347 1348 1349 1350 1351 1352   
## 1.678937 2.067053 1.814223 2.082506 2.007405 1.460894 1.788131 1.389769   
## 1353 1354 1355 1356 1357 1358 1359 1360   
## 1.659263 1.495646 1.282717 1.257757 1.443565 1.416933 2.139541 2.085260   
## 1361 1362 1363 1364 1365 1366 1367 1368   
## 1.753542 1.334888 1.646178 1.933502 1.750909 1.932493 1.299767 1.494272   
## 1369 1370 1371 1372 1373 1374 1375 1376   
## 1.834210 1.992614 1.994182 1.546373 2.189557 1.820715 2.069830 1.869814   
## 1377 1378 1379 1380 1381 1382 1383 1384   
## 1.446715 1.945483 1.552746 1.516718 1.839872 2.029795 2.088835 1.640451   
## 1385 1386 1387 1388 1389 1390 1391 1392   
## 1.477277 2.159800 1.529687 1.973799 1.802653 1.814995 1.705330 1.705632   
## 1393 1394 1395 1396 1397 1398 1399 1400   
## 1.388609 1.590210 1.909596 1.838807 1.291290 1.581952 1.512832 1.964327   
## 1401 1402 1403 1404 1405 1406 1407 1408   
## 1.383987 2.016449 1.748594 1.836697 1.581502 1.190341 1.462379 1.439128   
## 1409 1410 1411 1412 1413 1414 1415 1416   
## 2.064609 1.624249 1.853480 1.874782 1.644558 1.782827 2.036880 1.648386   
## 1417 1418 1419 1420 1421 1422 1423 1424   
## 1.296118 2.006789 1.321263 1.998593 1.603432 1.945048 1.648224 1.537357   
## 1425 1426 1427 1428 1429 1430 1431 1432   
## 1.990258 1.872969 1.810932 1.921324 1.710763 1.350202 1.740248 1.285680   
## 1433 1434 1435 1436 1437 1438 1439 1440   
## 1.698587 1.801916 1.380047 1.909206 1.640980 1.809903 1.653655 1.818619   
## 1441 1442 1443 1444 1445 1446 1447 1448   
## 1.420663 1.564220 1.494682 1.871054 1.795171 1.804532 1.676190 1.686011   
## 1449 1450 1451 1452 1453 1454 1455 1456   
## 1.511884 1.856026 1.751803 1.342612 1.607688 1.812927 1.798931 1.390495   
## 1457 1458 1459 1460 1461 1462 1463 1464   
## 1.593683 1.942461 1.464036 1.733329 1.506592 1.728172 1.645715 1.832626   
## 1465 1466 1467 1468 1469 1470 1471 1472   
## 1.595810 1.830072 1.544192 1.442206 1.398488 1.640763 1.860241 1.809881   
## 1473 1474 1475 1476 1477 1478 1479 1480   
## 1.794757 1.542597 1.687455 1.835910 2.059715 1.305924 2.006027 1.834797   
## 1481 1482 1483 1484 1485 1486 1487 1488   
## 1.305509 1.682093 1.672056 1.687790 1.898934 1.854340 1.808601 1.387686   
## 1489 1490 1491 1492 1493 1494 1495 1496   
## 1.536927 1.839973 1.801591 1.770324 1.805543 1.419338 1.679839 1.648737   
## 1497 1498 1499 1500 1501 1502 1503 1504   
## 1.926846 1.847413 1.537064 1.482014 1.297141 1.921129 2.053093 1.507952   
## 1505 1506 1507 1508 1509 1510 1511 1512   
## 1.488130 2.164599 2.072463 1.387722 1.496871 2.099937 1.804720 1.396558   
## 1513 1514 1515 1516 1517 1518 1519 1520   
## 1.694024 1.827408 1.596620 1.761394 1.969302 1.785604 1.680499 1.775030   
## 1521 1522 1523 1524 1525 1526 1527 1528   
## 1.839822 1.365468 2.128276 1.613337 2.075528 1.494132 1.821081 1.864145   
## 1529 1530 1531 1532 1533 1534 1535 1536   
## 1.524310 2.117527 1.704775 2.183608 2.023271 1.341782 1.734557 1.809246   
## 1537 1538 1539 1540 1541 1542 1543 1544   
## 2.111623 1.963029 1.469913 1.718063 1.793709 2.071701 1.726518 1.618885   
## 1545 1546 1547 1548 1549 1550 1551 1552   
## 1.586224 1.319931 1.896502 1.839737 1.708116 1.870199 1.792552 1.455744   
## 1553 1554 1555 1556 1557 1558 1559 1560   
## 1.710360 1.410590 1.805622 1.904002 1.345423 1.758810 1.424706 1.234149   
## 1561 1562 1563 1564 1565 1566 1567 1568   
## 1.732502 2.028273 1.554240 1.320845 1.713429 1.994079 1.832723 1.604191   
## 1569 1570 1571 1572 1573 1574 1575 1576   
## 1.780646 1.911001 1.818674 1.992141 1.597545 1.619534 1.354946 1.653709   
## 1577 1578 1579 1580 1581 1582 1583 1584   
## 1.695655 1.934323 1.594545 1.818281 1.870843 1.966741 2.012990 1.633204   
## 1585 1586 1587 1588 1589 1590 1591 1592   
## 1.545525 2.094059 1.862355 1.629145 1.848347 2.056864 1.381775 1.400696   
## 1593 1594 1595 1596 1597 1598 1599 1600   
## 1.793866 1.989377 2.088508 1.251852 1.649227 1.474651 1.622785 1.875443   
## 1601 1602 1603 1604 1605 1606 1607 1608   
## 2.032840 1.975834 1.467660 1.841187 1.748576 2.133185 2.096780 1.878557   
## 1609 1610 1611 1612 1613 1614 1615 1616   
## 1.900746 2.017818 1.946324 2.014783 1.779403 1.407003 2.095397 1.713937   
## 1617 1618 1619 1620 1621 1622 1623 1624   
## 1.482927 1.984926 1.716343 1.671341 1.457353 1.812791 1.466513 1.430706   
## 1625 1626 1627 1628 1629 1630 1631 1632   
## 2.116893 1.483973 1.459491 1.632578 1.655648 1.985931 1.540680 1.952919   
## 1633 1634 1635 1636 1637 1638 1639 1640   
## 1.935398 1.890104 1.614247 1.881312 2.117206 1.880262 1.635408 1.532997   
## 1641 1642 1643 1644 1645 1646 1647 1648   
## 1.484529 2.059545 1.447051 1.710615 1.769377 1.319621 1.304461 1.724756   
## 1649 1650 1651 1652 1653 1654 1655 1656   
## 2.043408 1.883083 1.674319 1.800453 1.804948 1.715794 2.077044 1.887500   
## 1657 1658 1659 1660 1661 1662 1663 1664   
## 1.653647 1.426466 1.559275 1.582716 1.371143 1.908691 1.796298 1.687782   
## 1665 1666 1667 1668 1669 1670 1671 1672   
## 1.388186 1.569989 1.929607 2.199206 1.682856 1.919854 1.518469 1.411648   
## 1673 1674 1675 1676 1677 1678 1679 1680   
## 1.869323 1.881506 1.586233 1.933387 2.058609 2.015152 1.993510 1.742181   
## 1681 1682 1683 1684 1685 1686 1687 1688   
## 1.489370 1.755166 1.837490 1.995742 1.631892 1.828121 2.093255 1.747127   
## 1689 1690 1691 1692 1693 1694 1695 1696   
## 2.056246 1.506208 1.898210 1.297428 2.178376 1.959969 1.910187 2.039772   
## 1697 1698 1699 1700 1701 1702 1703 1704   
## 1.787667 1.445735 1.670929 1.260776 1.762250 1.936201 1.423996 1.566986   
## 1705 1706 1707 1708 1709 1710 1711 1712   
## 1.747624 1.442192 2.004691 1.724278 1.915481 2.027584 2.042035 1.583570   
## 1713 1714 1715 1716 1717 1718 1719 1720   
## 2.102589 1.914748 1.361111 1.342785 1.511053 1.742118 1.924787 1.288204   
## 1721 1722 1723 1724 1725 1726 1727 1728   
## 1.287304 1.710775 1.709113 1.992280 1.929593 1.485026 1.353586 1.726002   
## 1729 1730 1731 1732 1733 1734 1735 1736   
## 1.816269 1.479665 2.073732 1.808973 1.616458 1.894412 1.405446 1.904462   
## 1737 1738 1739 1740 1741 1742 1743 1744   
## 1.595518 1.368882 2.041538 1.701529 2.028985 1.977806 1.335394 2.049285   
## 1745 1746 1747 1748 1749 1750 1751 1752   
## 1.635208 1.806860 1.422290 1.878142 1.979282 1.955876 1.725240 1.839042   
## 1753 1754 1755 1756 1757 1758 1759 1760   
## 1.913158 2.097022 1.866039 1.891857 1.977211 1.563360 1.596948 2.084460   
## 1761 1762 1763 1764 1765 1766 1767 1768   
## 1.775780 1.888545 1.979679 1.937237 1.795278 1.534028 1.313648 1.410692   
## 1769 1770 1771 1772 1773 1774 1775 1776   
## 2.069236 1.678231 1.856993 1.967492 1.721182 2.088833 1.413918 1.941948   
## 1777 1778 1779 1780 1781 1782 1783 1784   
## 1.671213 1.600332 1.416323 1.810644 2.096819 1.719789 1.591825 2.016824   
## 1785 1786 1787 1788 1789 1790 1791 1792   
## 1.800234 1.486238 1.906038 1.822529 2.092009 2.136079 1.448007 1.611696   
## 1793 1794 1795 1796 1797 1798 1799 1800   
## 1.988486 1.911957 1.350531 1.624526 1.507909 1.825951 1.882139 1.913971   
## 1801 1802 1803 1804 1805 1806 1807 1808   
## 2.148449 1.977773 1.445848 1.485664 1.419556 2.008966 1.420618 1.443171   
## 1809 1810 1811 1812 1813 1814 1815 1816   
## 1.542109 1.949977 2.096810 1.815154 1.833545 1.763705 2.004693 1.655139   
## 1817 1818 1819 1820 1821 1822 1823 1824   
## 1.468618 1.489993 1.539800 2.128722 1.700574 1.708834 1.723269 1.916424   
## 1825 1826 1827 1828 1829 1830 1831 1832   
## 1.383673 2.001948 1.719672 1.623978 1.720137 1.599792 1.594690 1.481436   
## 1833 1834 1835 1836 1837 1838 1839 1840   
## 1.832266 1.594710 1.804010 1.989430 1.956003 1.776873 2.120537 2.045965   
## 1841 1842 1843 1844 1845 1846 1847 1848   
## 1.882214 1.904581 2.078713 1.953416 1.629848 1.794182 1.503690 1.649564   
## 1849 1850 1851 1852 1853 1854 1855 1856   
## 1.645610 1.492598 1.988817 1.786554 2.165102 1.567661 1.668443 2.108801   
## 1857 1858 1859 1860 1861 1862 1863 1864   
## 1.631852 1.744843 1.805817 1.692907 1.568272 1.869330 1.434004 1.623039   
## 1865 1866 1867 1868 1869 1870 1871 1872   
## 2.087255 1.588454 1.701040 2.046363 2.102869 1.932495 1.993598 1.586107   
## 1873 1874 1875 1876 1877 1878 1879 1880   
## 2.157423 1.774684 1.404331 1.285365 1.697235 1.748227 1.613676 1.895808   
## 1881 1882 1883 1884 1885 1886 1887 1888   
## 1.821687 2.147556 1.492134 1.825365 1.609265 1.777484 1.588031 1.432232   
## 1889 1890 1891 1892 1893 1894 1895 1896   
## 1.663764 1.629195 2.080618 1.920576 1.704880 1.372913 1.476435 1.925653   
## 1897 1898 1899 1900 1901 1902 1903 1904   
## 1.885635 2.118044 1.287403 1.717917 1.854804 1.867455 1.656612 2.096232   
## 1905 1906 1907 1908 1909 1910 1911 1912   
## 1.886088 1.611623 2.085229 1.959403 1.767842 1.597780 1.757152 1.649366   
## 1913 1914 1915 1916 1917 1918 1919 1920   
## 2.096985 1.866319 1.640985 1.835835 2.031696 1.663667 2.038810 1.452060   
## 1921 1922 1923 1924 1925 1926 1927 1928   
## 1.958767 1.586331 1.647507 1.863878 1.361028 1.769255 1.730748 1.807719   
## 1929 1930 1931 1932 1933 1934 1935 1936   
## 1.856276 1.492293 1.956714 2.021282 1.949186 1.798564 1.774966 2.093036   
## 1937 1938 1939 1940 1941 1942 1943 1944   
## 1.597742 2.037838 1.550001 1.648966 2.126765 1.670011 1.918286 1.393208   
## 1945 1946 1947 1948 1949 1950 1951 1952   
## 1.978416 1.717230 1.713935 1.503589 1.444597 1.341705 1.575572 1.943297   
## 1953 1954 1955 1956 1957 1958 1959 1960   
## 1.853801 1.525479 1.726350 1.709396 1.857909 1.550305 1.502176 1.995276   
## 1961 1962 1963 1964 1965 1966 1967 1968   
## 1.772226 1.671393 2.064139 1.693403 1.915054 1.369790 1.871492 1.480308   
## 1969 1970 1971 1972 1973 1974 1975 1976   
## 2.113361 1.399355 1.950483 1.190857 1.444468 2.040424 2.004758 1.371630   
## 1977 1978 1979 1980 1981 1982 1983 1984   
## 1.709301 1.868135 1.766404 1.415061 1.682955 1.933677 1.564042 1.722859   
## 1985 1986 1987 1988 1989 1990 1991 1992   
## 1.859886 1.326709 1.837835 1.464683 1.613374 1.911043 1.350983 2.169877   
## 1993 1994 1995 1996 1997 1998 1999 2000   
## 1.858184 1.501913 1.467010 1.452352 1.815913 1.973807 1.746389 1.432408   
## 2001 2002 2003 2004 2005 2006 2007 2008   
## 1.680193 1.628037 1.352075 1.420074 2.154403 1.375284 1.929491 1.676327   
## 2009 2010 2011 2012 2013 2014 2015 2016   
## 1.966588 1.809771 1.717907 1.376240 2.013007 1.586363 1.821607 1.870419   
## 2017 2018 2019 2020 2021 2022 2023 2024   
## 2.037154 1.442108 1.322178 1.457379 2.021020 1.851550 1.906393 1.933425   
## 2025 2026 2027 2028 2029 2030 2031 2032   
## 1.883503 1.701789 1.636994 1.439204 1.757397 1.950342 1.851744 1.348723   
## 2033 2034 2035 2036 2037 2038 2039 2040   
## 1.338340 1.461670 1.489205 2.149025 1.916472 1.774214 1.483061 1.871415   
## 2041 2042 2043 2044 2045 2046 2047 2048   
## 1.897028 1.629401 1.536727 1.380441 1.789008 2.063884 2.100201 1.624689   
## 2049 2050 2051 2052 2053 2054 2055 2056   
## 1.677973 1.545850 1.689339 1.713399 1.657228 2.172337 1.581509 2.154712   
## 2057 2058 2059 2060 2061 2062 2063 2064   
## 1.712488 1.990240 1.950685 1.976122 1.532946 1.991272 1.727662 1.767228   
## 2065 2066 2067 2068 2069 2070 2071 2072   
## 1.335675 1.848602 1.963161 2.007218 1.845415 1.651563 1.553761 1.760223   
## 2073 2074 2075 2076 2077 2078 2079 2080   
## 1.441036 1.790689 1.818808 1.976180 1.554496 1.832128 1.753819 1.496393   
## 2081 2082 2083 2084 2085 2086 2087 2088   
## 1.386734 1.509273 1.654062 1.785063 1.965814 1.800955 2.060619 2.176977   
## 2089 2090 2091 2092 2093 2094 2095 2096   
## 1.815956 1.855635 1.348282 1.818271 1.352319 1.384189 1.634483 1.808913   
## 2097 2098 2099 2100 2101 2102 2103 2104   
## 1.694259 1.474653 1.407720 1.327484 1.401552 1.974671 1.529928 1.848173   
## 2105 2106 2107 2108 2109 2110 2111 2112   
## 1.955126 1.817303 1.992046 1.895742 1.678298 1.906015 1.968065 1.600669   
## 2113 2114 2115 2116 2117 2118 2119 2120   
## 2.107046 1.487563 1.963996 2.057705 1.805860 1.564828 1.532246 1.573994   
## 2121 2122 2123 2124 2125 2126 2127 2128   
## 1.957728 1.646955 1.818049 1.814672 1.342820 1.734802 1.973582 1.935266   
## 2129 2130 2131 2132 2133 2134 2135 2136   
## 1.346522 1.804140 1.686932 1.416139 1.860766 2.112696 1.498137 1.546201   
## 2137 2138 2139 2140 2141 2142 2143 2144   
## 1.879866 1.807095 1.673559 1.652711 1.530827 1.875352 1.870041 1.850473   
## 2145 2146 2147 2148 2149 2150 2151 2152   
## 1.577966 1.412858 2.003276 1.536009 1.536303 1.979907 1.461469 1.395982   
## 2153 2154 2155 2156 2157 2158 2159 2160   
## 1.660006 1.988345 1.895519 2.178178 1.405691 1.535482 1.391747 2.061103   
## 2161 2162 2163 2164 2165 2166 2167 2168   
## 1.879777 1.848595 1.255578 1.323393 2.071308 1.847433 1.591470 1.662343   
## 2169 2170 2171 2172 2173 2174 2175 2176   
## 1.410516 1.910804 1.625239 2.062886 1.891192 2.053078 1.870045 1.923139   
## 2177 2178 2179 2180 2181 2182 2183 2184   
## 1.873382 1.802695 1.666908 1.254885 1.774308 2.052028 1.992783 1.700648   
## 2185 2186 2187 2188 2189 2190 2191 2192   
## 2.086562 2.074208 1.226111 2.000775 1.971916 1.351627 1.861348 1.874877   
## 2193 2194 2195 2196 2197 2198 2199 2200   
## 1.921853 1.718774 2.005604 1.746005 1.926891 1.374937 1.997605 1.855511   
## 2201 2202 2203 2204 2205 2206 2207 2208   
## 1.530333 1.642349 1.373761 1.173275 1.803020 1.902501 1.670757 1.881483   
## 2209 2210 2211 2212 2213 2214 2215 2216   
## 1.898466 1.430139 2.005493 1.782337 2.134583 2.120608 1.402989 2.131025   
## 2217 2218 2219 2220 2221 2222 2223 2224   
## 2.249203 1.518166 1.478621 1.447418 1.695435 1.900931 1.986996 1.844665   
## 2225 2226 2227 2228 2229 2230 2231 2232   
## 1.466207 2.035194 1.454491 2.033413 1.951172 1.874318 1.834767 1.358221   
## 2233 2234 2235 2236 2237 2238 2239 2240   
## 1.702317 1.335092 2.071811 2.072178 1.986023 1.946752 1.637328 1.864676   
## 2241 2242 2243 2244 2245 2246 2247 2248   
## 1.917286 1.326431 2.016422 1.764891 1.631922 1.901014 1.545227 2.068978   
## 2249 2250 2251 2252 2253 2254 2255 2256   
## 2.173620 2.005024 1.708100 1.922260 1.924819 2.007657 1.903526 1.528919   
## 2257 2258 2259 2260 2261 2262 2263 2264   
## 1.738458 1.347559 1.537907 1.973979 1.363692 1.778986 1.994974 1.966645   
## 2265 2266 2267 2268 2269 2270 2271 2272   
## 1.436571 1.295174 1.475148 1.630170 1.944852 1.575318 1.370943 1.590879   
## 2273 2274 2275 2276 2277 2278 2279 2280   
## 1.776567 1.639057 1.959992 1.291917 1.565654 1.675719 1.385367 1.727711   
## 2281 2282 2283 2284 2285 2286 2287 2288   
## 1.745598 1.601563 1.857739 1.376590 2.015848 1.524349 1.296727 2.052512   
## 2289 2290 2291 2292 2293 2294 2295 2296   
## 2.080693 1.318850 1.563606 1.599049 1.782300 1.861993 2.021207 1.719204   
## 2297 2298 2299 2300 2301 2302 2303 2304   
## 1.380560 2.103530 1.674920 1.859003 1.530586 1.411953 1.707140 1.940075   
## 2305 2306 2307 2308 2309 2310 2311 2312   
## 1.793824 2.040842 1.712044 1.899521 1.664059 2.114859 1.764481 1.811744   
## 2313 2314 2315 2316 2317 2318 2319 2320   
## 1.993417 2.008165 1.422811 2.068220 1.694514 2.059482 1.443040 1.448388   
## 2321 2322 2323 2324 2325 2326 2327 2328   
## 1.793582 1.927487 1.444047 1.460443 1.824704 1.713494 1.799813 1.869896   
## 2329 2330 2331 2332 2333 2334 2335 2336   
## 2.033214 1.336633 1.663651 1.501690 1.631978 2.127288 1.312570 1.875070   
## 2337 2338 2339 2340 2341 2342 2343 2344   
## 2.022506 1.600960 1.586407 1.811055 1.810304 1.883566 1.840007 1.930800   
## 2345 2346 2347 2348 2349 2350 2351 2352   
## 2.048685 1.316097 2.111444 1.804013 1.356394 1.942538 2.109120 1.786747   
## 2353 2354 2355 2356 2357 2358 2359 2360   
## 2.008233 2.004942 1.768821 2.098904 1.655741 1.762677 1.602213 1.463114   
## 2361 2362 2363 2364 2365 2366 2367 2368   
## 1.486499 1.349496 1.352492 1.989757 1.990468 1.993488 1.697888 2.160932   
## 2369 2370 2371 2372 2373 2374 2375 2376   
## 2.003969 1.816960 1.991627 1.647054 1.906557 1.575324 1.486484 1.754126   
## 2377 2378 2379 2380 2381 2382 2383 2384   
## 1.883209 1.894704 1.640578 1.540408 1.654863 1.858388 1.331495 1.535016   
## 2385 2386 2387 2388 2389 2390 2391 2392   
## 2.091571 1.898510 1.520767 1.415087 1.579934 1.822140 1.467286 1.648041   
## 2393 2394 2395 2396 2397 2398 2399 2400   
## 1.302136 1.595296 1.513595 1.615603 1.696633 1.848473 2.098966 1.701044   
## 2401 2402 2403 2404 2405 2406 2407 2408   
## 1.365964 1.323492 1.399174 2.025582 1.730842 1.647247 2.002893 1.871097   
## 2409 2410 2411 2412 2413 2414 2415 2416   
## 1.812987 1.883450 1.458480 1.466550 1.716997 1.482681 1.822080 1.664354   
## 2417 2418 2419 2420 2421 2422 2423 2424   
## 1.782959 1.354190 1.895840 1.805995 1.831815 1.643896 1.550309 1.532619   
## 2425 2426 2427 2428 2429 2430 2431 2432   
## 1.843194 1.863696 1.513730 1.891371 1.735339 1.835510 1.639029 1.578394   
## 2433 2434 2435 2436 2437 2438 2439 2440   
## 1.743566 1.414133 1.941215 1.886684 1.331051 1.273599 1.994941 1.405256   
## 2441 2442 2443 2444 2445 2446 2447 2448   
## 1.666003 1.413668 1.441844 1.296334 1.637835 1.991464 1.597374 1.387023   
## 2449 2450 2451 2452 2453 2454 2455 2456   
## 1.311473 2.047470 1.447636 1.996602 1.715905 1.674498 1.790245 2.039891   
## 2457 2458 2459 2460 2461 2462 2463 2464   
## 2.057866 1.706799 1.337536 1.325115 1.520441 2.073138 1.695999 1.490487   
## 2465 2466 2467 2468 2469 2470 2471 2472   
## 1.924993 1.992020 1.611636 2.158333 1.842081 1.562387 1.970570 2.111001   
## 2473 2474 2475 2476 2477 2478 2479 2480   
## 1.396839 1.660367 2.029177 1.583621 1.983789 1.598684 1.638137 1.858280   
## 2481 2482 2483 2484 2485 2486 2487 2488   
## 1.415714 1.570696 1.901323 1.795096 2.072802 1.693816 1.929315 1.615883   
## 2489 2490 2491 2492 2493 2494 2495 2496   
## 1.324588 1.590203 1.912957 1.957610 1.815371 1.794455 1.942230 1.993517   
## 2497 2498 2499 2500 2501 2502 2503 2504   
## 2.110305 2.006701 2.012132 1.461271 1.932202 2.017869 2.004784 1.860833   
## 2505 2506 2507 2508 2509 2510 2511 2512   
## 2.013812 1.342817 1.641680 1.839689 2.062045 1.402640 1.939310 1.267760   
## 2513 2514 2515 2516 2517 2518 2519 2520   
## 1.373901 1.424991 1.286394 1.964797 1.457613 1.839895 2.048079 2.132274   
## 2521 2522 2523 2524 2525 2526 2527 2528   
## 2.023661 1.813667 1.346399 1.401605 1.884313 1.385138 2.002049 1.616124   
## 2529 2530 2531 2532 2533 2534 2535 2536   
## 1.941267 1.940051 2.034230 1.887500 2.062709 1.788969 2.053207 1.989065   
## 2537 2538 2539 2540 2541 2542 2543 2544   
## 1.950391 1.766753 1.419450 1.640652 2.048549 1.730051 2.010001 1.400000   
## 2545 2546 2547 2548 2549 2550 2551 2552   
## 1.811218 2.060270 1.861996 1.920881 1.775434 1.665553 1.627720 1.659635   
## 2553 2554 2555 2556 2557 2558 2559 2560   
## 1.647858 1.943798 1.992480 1.655266 1.962868 1.955590 1.411204 1.619973   
## 2561 2562 2563 2564 2565 2566 2567 2568   
## 1.862497 2.128627 1.695761 1.958690 2.060905 1.435575 1.737400 2.059761   
## 2569 2570 2571 2572 2573 2574 2575 2576   
## 1.532410 1.444295 1.922273 1.767403 1.229240 1.522384 2.037953 1.443262   
## 2577 2578 2579 2580 2581 2582 2583 2584   
## 1.849175 1.350396 2.054201 1.905232 1.993768 1.941910 1.962322 1.737004   
## 2585 2586 2587 2588 2589 2590 2591 2592   
## 1.298523 1.541251 1.641885 1.839538 2.102563 1.890649 1.984783 1.732969   
## 2593 2594 2595 2596 2597 2598 2599 2600   
## 1.870325 1.437805 2.167677 1.450330 1.978514 1.835542 1.998808 1.483753   
## 2601 2602 2603 2604 2605 2606 2607 2608   
## 1.870119 1.565152 1.356421 1.723063 1.668263 1.767614 1.450437 1.649498   
## 2609 2610 2611 2612 2613 2614 2615 2616   
## 1.350411 1.904550 2.107337 1.660705 1.757908 1.948109 1.488931 1.762634   
## 2617 2618 2619 2620 2621 2622 2623 2624   
## 2.064246 1.662276 1.480498 1.700494 1.750130 1.918506 1.936695 1.533159   
## 2625 2626 2627 2628 2629 2630 2631 2632   
## 1.462932 1.927096 1.228132 1.915904 1.914368 1.403177 2.016674 1.939273   
## 2633 2634 2635 2636 2637 2638 2639 2640   
## 1.973049 1.788295 1.689788 1.582831 1.751974 1.625801 1.487487 1.664950   
## 2641 2642 2643 2644 2645 2646 2647 2648   
## 1.822364 1.967232 1.757693 1.765123 2.031500 1.499341 1.437076 1.580734   
## 2649 2650 2651 2652 2653 2654 2655 2656   
## 2.147947 1.282577 1.391616 1.867219 1.667303 1.955974 2.033495 1.722814   
## 2657 2658 2659 2660 2661 2662 2663 2664   
## 2.024893 1.464080 1.790298 1.831526 1.683733 2.059375 2.051069 1.834954   
## 2665 2666 2667 2668 2669 2670 2671 2672   
## 1.472683 1.787894 1.797817 1.946372 1.439975 1.763472 2.022346 1.923307   
## 2673 2674 2675 2676 2677 2678 2679 2680   
## 1.423416 1.934200 1.362712 2.214201 1.987048 1.593360 1.427362 1.852298   
## 2681 2682 2683 2684 2685 2686 2687 2688   
## 2.000540 1.403102 1.626412 1.395209 1.929539 1.362195 1.668175 1.739073   
## 2689 2690 2691 2692 2693 2694 2695 2696   
## 2.114741 1.869117 1.961063 2.062705 2.162540 1.813642 1.513788 1.715258   
## 2697 2698 2699 2700 2701 2702 2703 2704   
## 2.051391 1.658111 1.528198 1.916599 2.063510 1.453294 1.373290 1.307039   
## 2705 2706 2707 2708 2709 2710 2711 2712   
## 1.608269 1.921486 1.540946 1.687712 1.755538 1.790036 1.838183 1.709287   
## 2713 2714 2715 2716 2717 2718 2719 2720   
## 2.171954 2.044325 1.974512 1.639950 1.354179 2.007549 1.874451 2.063695   
## 2721 2722 2723 2724 2725 2726 2727 2728   
## 1.617621 1.986862 1.272715 1.725714 1.283886 1.693049 1.824515 1.850660   
## 2729 2730 2731 2732 2733 2734 2735 2736   
## 1.527856 1.833841 1.605844 1.672709 1.800726 1.947853 1.806182 1.643376   
## 2737 2738 2739 2740 2741 2742 2743 2744   
## 1.270256 2.170391 1.983081 1.723071 1.228597 1.990910 1.781137 1.464982   
## 2745 2746 2747 2748 2749 2750 2751 2752   
## 1.739166 1.811686 1.627666 1.863855 1.263944 1.718486 1.936810 1.798192   
## 2753 2754 2755 2756 2757 2758 2759 2760   
## 1.947644 1.818693 1.835240 1.884148 1.485194 1.672146 1.909602 1.912889   
## 2761 2762 2763 2764 2765 2766 2767 2768   
## 1.468328 1.883159 1.718483 1.881204 1.868399 1.371105 1.684663 2.140540   
## 2769 2770 2771 2772 2773 2774 2775 2776   
## 1.697525 1.718714 1.892310 1.466793 1.840676 1.523226 1.333936 1.896156   
## 2777 2778 2779 2780 2781 2782 2783 2784   
## 1.556630 1.889133 1.639115 1.420334 1.629312 1.895305 2.062708 1.914179   
## 2785 2786 2787 2788 2789 2790 2791 2792   
## 1.446037 1.806703 1.964196 1.732988 1.416816 1.832972 1.336118 1.696656   
## 2793 2794 2795 2796 2797 2798 2799 2800   
## 1.243177 1.359915 2.047435 1.878559 1.809264 1.459522 1.976301 1.704043   
## 2801 2802 2803 2804 2805 2806 2807 2808   
## 2.151862 1.923553 1.896101 1.407154 1.702627 1.777559 2.016805 1.812854   
## 2809 2810 2811 2812 2813 2814 2815 2816   
## 2.035381 2.071216 1.425023 1.927307 2.011243 1.606234 1.731664 1.976211   
## 2817 2818 2819 2820 2821 2822 2823 2824   
## 1.297657 1.928081 1.966396 2.065702 1.738726 1.745260 1.610037 1.891419   
## 2825 2826 2827 2828 2829 2830 2831 2832   
## 1.393965 2.087633 1.301092 1.864675 2.080553 1.984284 1.995940 1.639001   
## 2833 2834 2835 2836 2837 2838 2839 2840   
## 1.801538 1.998824 2.047709 1.731042 1.620486 1.685782 2.054044 1.249480   
## 2841 2842 2843 2844 2845 2846 2847 2848   
## 1.491244 1.571385 1.571347 1.833821 1.833197 1.646737 2.052723 2.105731   
## 2849 2850 2851 2852 2853 2854 2855 2856   
## 1.751854 1.706330 2.034444 1.539588 2.024631 1.776248 2.049001 1.641975   
## 2857 2858 2859 2860 2861 2862 2863 2864   
## 1.328211 1.437652 1.645840 1.656024 1.953263 1.431041 1.925133 1.509580   
## 2865 2866 2867 2868 2869 2870 2871 2872   
## 1.304984 1.800218 1.359689 1.996486 1.405731 2.076931 1.412389 1.868698   
## 2873 2874 2875 2876 2877 2878 2879 2880   
## 1.680077 1.478304 1.695148 1.430992 1.842519 1.532805 2.050060 2.089353   
## 2881 2882 2883 2884 2885 2886 2887 2888   
## 1.909045 1.832906 1.592172 1.367065 1.937237 1.679496 1.344941 1.805860   
## 2889 2890 2891 2892 2893 2894 2895 2896   
## 1.768423 1.984600 1.917049 1.842081 1.974316 1.691879 2.116340 1.378363   
## 2897 2898 2899 2900 2901 2902 2903 2904   
## 1.932632 1.439419 1.738785 1.568245 1.678063 1.696441 1.409302 1.400800   
## 2905 2906 2907 2908 2909 2910 2911 2912   
## 1.954400 1.920554 1.482660 1.470712 1.989807 1.697801 2.069684 1.822814   
## 2913 2914 2915 2916 2917 2918 2919 2920   
## 2.069243 1.511429 1.815796 2.173726 1.277903 1.525599 1.776845 1.482275   
## 2921 2922 2923 2924 2925 2926 2927 2928   
## 1.774716 1.967574 1.405446 2.101441 1.944678 1.939820 1.464095 1.726602   
## 2929 2930 2931 2932 2933 2934 2935 2936   
## 2.035141 1.883025 2.135953 1.536121 1.797967 1.790971 1.502020 1.659462   
## 2937 2938 2939 2940 2941 2942 2943 2944   
## 1.955192 2.024355 1.902334 1.691985 1.548541 1.706052 1.706906 1.467135   
## 2945 2946 2947 2948 2949 2950 2951 2952   
## 2.018772 1.772078 1.786138 1.857329 1.423521 1.411316 1.276883 1.660340   
## 2953 2954 2955 2956 2957 2958 2959 2960   
## 1.367329 1.824223 1.666545 1.417345 1.725195 1.629865 1.872909 1.809048   
## 2961 2962 2963 2964 2965 2966 2967 2968   
## 1.707388 1.439995 1.937951 1.430002 1.985684 1.365150 2.080245 2.044329   
## 2969 2970 2971 2972 2973 2974 2975 2976   
## 1.752880 1.549463 1.645895 1.797118 1.762602 1.619790 1.912803 2.057847   
## 2977 2978 2979 2980 2981 2982 2983 2984   
## 2.098207 1.973084 2.172722 1.855238 1.704371 1.809329 1.999586 1.915758   
## 2985 2986 2987 2988 2989 2990 2991 2992   
## 1.788721 1.535840 1.633047 1.728369 1.871186 2.016872 1.624855 1.668763   
## 2993 2994 2995 2996 2997 2998 2999 3000   
## 1.682878 1.430474 1.877528 1.361289 1.828007 1.834452 1.580555 1.360874   
## 3001 3002 3003 3004 3005 3006 3007 3008   
## 1.763903 1.366889 1.539725 1.874746 1.699233 1.583519 1.938151 2.049917   
## 3009 3010 3011 3012 3013 3014 3015 3016   
## 1.616069 1.523872 2.074700 1.546779 1.852354 1.995831 1.836704 1.915887   
## 3017 3018 3019 3020 3021 3022 3023 3024   
## 1.820797 1.808247 2.169794 1.852015 2.044407 1.375093 1.767523 1.718865   
## 3025 3026 3027 3028 3029 3030 3031 3032   
## 1.715389 1.351256 1.597973 1.959413 1.895196 1.342298 1.484651 1.965810   
## 3033 3034 3035 3036 3037 3038 3039 3040   
## 1.952578 1.759063 1.984691 1.921225 1.643595 1.792409 1.516643 1.585619   
## 3041 3042 3043 3044 3045 3046 3047 3048   
## 1.833688 1.788714 1.613407 1.654473 1.820304 1.427382 2.170656 1.747708   
## 3049 3050 3051 3052 3053 3054 3055 3056   
## 1.869460 1.851081 1.692665 1.964527 1.945472 1.666590 1.995231 1.664271   
## 3057 3058 3059 3060 3061 3062 3063 3064   
## 1.353075 1.700947 1.483221 1.518099 1.586595 1.379136 1.402554 1.731473   
## 3065 3066 3067 3068 3069 3070 3071 3072   
## 1.774576 1.703795 1.951284 2.027396 1.873884 1.808252 1.803970 1.735880   
## 3073 3074 3075 3076 3077 3078 3079 3080   
## 2.003941 1.237032 1.540841 1.614846 1.430711 1.990432 2.013653 1.821399   
## 3081 3082 3083 3084 3085 3086 3087 3088   
## 1.281293 1.464908 1.315761 2.013305 2.127526 1.546904 1.874098 1.552216   
## 3089 3090 3091 3092 3093 3094 3095 3096   
## 1.874397 1.795106 1.461683 1.943517 1.832963 1.538045 1.891024 1.666285   
## 3097 3098 3099 3100 3101 3102 3103 3104   
## 1.738303 1.782251 1.716694 1.346688 1.831566 2.045095 2.005817 1.780927   
## 3105 3106 3107 3108 3109 3110 3111 3112   
## 1.966836 1.811947 1.868762 2.003888 1.459190 1.633804 1.439179 1.697372   
## 3113 3114 3115 3116 3117 3118 3119 3120   
## 1.832861 1.985696 1.416856 1.996854 1.674850 2.024333 1.496843 2.173524   
## 3121 3122 3123 3124 3125 3126 3127 3128   
## 1.824774 1.870951 1.664637 1.858086 1.821081 1.830122 2.132271 1.457591   
## 3129 3130 3131 3132 3133 3134 3135 3136   
## 1.935789 1.950914 1.485234 1.483226 1.684536 1.594173 1.691320 1.524768   
## 3137 3138 3139 3140 3141 3142 3143 3144   
## 1.388588 1.810693 1.665873 1.830121 1.441050 1.406360 1.485200 1.766572   
## 3145 3146 3147 3148 3149 3150 3151 3152   
## 1.682393 1.600378 1.602084 1.674461 1.744523 1.453989 1.950628 1.875471   
## 3153 3154 3155 3156 3157 3158 3159 3160   
## 1.676645 1.670415 1.197020 2.131571 1.894438 1.570151 1.536375 1.510727   
## 3161 3162 3163 3164 3165 3166 3167 3168   
## 1.932598 1.782680 2.100633 1.937215 1.959049 1.519747 1.904796 1.487761   
## 3169 3170 3171 3172 3173 3174 3175 3176   
## 1.892883 1.731290 1.441039 1.974614 2.080058 1.763790 1.915116 1.810868   
## 3177 3178 3179 3180 3181 3182 3183 3184   
## 2.045269 1.722374 1.443801 2.023445 1.552769 2.081032 1.605410 1.679826   
## 3185 3186 3187 3188 3189 3190 3191 3192   
## 1.865506 1.980730 1.582500 2.022421 1.924739 1.660392 1.513511 1.852169   
## 3193 3194 3195 3196 3197 3198 3199 3200   
## 1.693672 1.579187 2.056263 1.613929 1.863184 1.540454 2.171518 1.954632   
## 3201 3202 3203 3204 3205 3206 3207 3208   
## 2.006664 1.818260 1.783615 1.803161 1.234817 2.063745 1.906578 1.651759   
## 3209 3210 3211 3212 3213 3214 3215 3216   
## 1.878303 1.660448 1.601095 1.662555 1.754404 1.923061 1.922470 2.118492   
## 3217 3218 3219 3220 3221 3222 3223 3224   
## 1.628903 1.672143 1.647934 1.513196 1.585528 1.819924 1.596346 1.687246   
## 3225 3226 3227 3228 3229 3230 3231 3232   
## 1.299954 2.087756 1.747098 1.947030 1.528028 1.976208 2.042481 1.675024   
## 3233 3234 3235 3236 3237 3238 3239 3240   
## 2.055275 1.997751 1.716099 1.776384 1.808462 1.926493 1.588468 1.648145   
## 3241 3242 3243 3244 3245 3246 3247 3248   
## 1.692042 1.593697 1.922681 1.277853 1.670864 1.821144 1.516479 1.772352   
## 3249 3250 3251 3252 3253 3254 3255 3256   
## 1.563103 1.362073 1.849433 2.119134 1.456153 1.569182 1.481998 1.662680   
## 3257 3258 3259 3260 3261 3262 3263 3264   
## 2.128597 1.580223 1.872494 1.480289 1.566857 2.129360 1.999172 1.718046   
## 3265 3266 3267 3268 3269 3270 3271 3272   
## 1.998396 1.288114 1.263232 1.386630 1.630597 1.602210 1.922014 1.366391   
## 3273 3274 3275 3276 3277 3278 3279 3280   
## 1.904567 1.989698 1.924436 2.068999 1.712294 1.791731 2.020603 1.524471   
## 3281 3282 3283 3284 3285 3286 3287 3288   
## 2.117255 1.408705 1.465684 1.939818 1.604831 1.672560 1.881562 1.481240   
## 3289 3290 3291 3292 3293 3294 3295 3296   
## 1.527321 1.421808 2.196102 1.714113 1.932594 1.813190 1.920002 1.952097   
## 3297 3298 3299 3300 3301 3302 3303 3304   
## 1.353586 1.511686 1.457711 1.846878 1.478565 1.508736 1.931793 1.870223   
## 3305 3306 3307 3308 3309 3310 3311 3312   
## 1.930936 1.355665 1.763776 1.806975 1.822965 1.729469 1.804002 1.805708   
## 3313 3314 3315 3316 3317 3318 3319 3320   
## 2.095819 1.642545 1.535832 1.636984 2.018501 1.285536 1.899242 1.451796   
## 3321 3322 3323 3324 3325 3326 3327 3328   
## 1.300321 1.809551 1.828515 1.398893 1.713107 1.534460 1.633200 1.975359   
## 3329 3330 3331 3332 3333 3334 3335 3336   
## 1.531693 1.790893 2.056149 1.373898 1.478032 2.162677 1.281234 1.784988   
## 3337 3338 3339 3340 3341 3342 3343 3344   
## 1.805444 1.911338 1.396852 1.810928 1.246941 1.969572 1.737053 1.299431   
## 3345 3346 3347 3348 3349 3350 3351 3352   
## 1.598864 1.736435 1.271902 1.436810 1.937170 1.994310 1.609921 1.623333   
## 3353 3354 3355 3356 3357 3358 3359 3360   
## 1.880619 1.813328 1.436843 1.922160 1.669974 1.906916 1.436651 1.945084   
## 3361 3362 3363 3364 3365 3366 3367 3368   
## 1.542354 1.964151 1.654454 1.580337 1.841726 1.807796 1.665270 1.285776   
## 3369 3370 3371 3372 3373 3374 3375 3376   
## 1.666949 2.125478 1.781570 2.044084 2.176210 1.813437 1.177618 1.890518   
## 3377 3378 3379 3380 3381 3382 3383 3384   
## 2.083288 1.366776 1.455097 1.295336 1.939133 1.817489 1.939479 1.392431   
## 3385 3386 3387 3388 3389 3390 3391 3392   
## 2.015820 1.824492 1.878506 1.825347 1.815765 1.870316 1.880618 2.066562   
## 3393 3394 3395 3396 3397 3398 3399 3400   
## 1.835331 1.826502 1.463188 2.014455 1.328292 1.825794 1.948131 1.852249   
## 3401 3402 3403 3404 3405 3406 3407 3408   
## 1.925581 1.986755 1.678181 1.912461 1.623951 1.552138 1.887992 1.510434   
## 3409 3410 3411 3412 3413 3414 3415 3416   
## 1.961323 1.766627 1.615131 1.778574 1.759877 1.950820 1.703666 2.040755   
## 3417 3418 3419 3420 3421 3422 3423 3424   
## 2.004835 1.716512 1.348739 1.623151 1.406189 1.359306 1.644993 2.035378   
## 3425 3426 3427 3428 3429 3430 3431 3432   
## 1.877291 1.382701 2.077009 1.800132 1.789998 1.409001 1.894790 1.782869   
## 3433 3434 3435 3436 3437 3438 3439 3440   
## 1.341746 1.821169 2.102290 1.883177 1.554109 1.767037 1.829841 1.663241   
## 3441 3442 3443 3444 3445 3446 3447 3448   
## 1.781355 1.680093 1.681069 1.713543 1.734818 1.743727 1.592915 1.761852   
## 3449 3450 3451 3452 3453 3454 3455 3456   
## 1.641780 1.285778 2.014504 1.758651 1.465562 1.890495 1.675909 1.986376   
## 3457 3458 3459 3460 3461 3462 3463 3464   
## 1.314564 1.564051 1.568222 1.606661 2.032354 1.254583 1.833611 1.315877   
## 3465 3466 3467 3468 3469 3470 3471 3472   
## 1.705290 1.934157 1.641023 1.592823 1.781793 1.870257 1.717532 1.441778   
## 3473 3474 3475 3476 3477 3478 3479 3480   
## 1.662776 1.599247 2.098728 1.595386 1.688670 1.585685 1.577298 1.370543   
## 3481 3482 3483 3484 3485 3486 3487 3488   
## 1.778411 2.076031 1.564318 1.760196 1.650122 1.893237 1.634781 1.607895   
## 3489 3490 3491 3492 3493 3494 3495 3496   
## 1.367577 1.292308 1.667565 1.360155 1.689611 1.798564 1.733969 2.010973   
## 3497 3498 3499 3500 3501 3502 3503 3504   
## 1.754814 1.811549 2.123420 1.587069 1.517282 1.819128 1.991568 1.593287   
## 3505 3506 3507 3508 3509 3510 3511 3512   
## 1.376948 1.990255 1.913470 1.877280 1.882321 1.749607 1.620509 1.983619   
## 3513 3514 3515 3516 3517 3518 3519 3520   
## 1.813295 1.494057 1.846940 2.045275 1.985680 2.048706 1.301555 1.585907   
## 3521 3522 3523 3524 3525 3526 3527 3528   
## 1.619132 1.361932 1.802982 1.368697 1.620527 1.907949 1.613888 1.823535   
## 3529 3530 3531 3532 3533 3534 3535 3536   
## 1.814804 1.879701 1.358218 1.848939 2.130932 1.623532 2.065983 1.803218   
## 3537 3538 3539 3540 3541 3542 3543 3544   
## 1.838834 2.071665 1.571022 1.543203 2.118259 2.089485 1.936587 2.146594   
## 3545 3546 3547 3548 3549 3550 3551 3552   
## 1.548294 1.369573 1.927505 2.045567 1.447693 1.403667 1.891505 1.641326   
## 3553 3554 3555 3556 3557 3558 3559 3560   
## 1.555426 1.978417 1.673250 1.542751 1.285048 1.473550 1.804140 1.613386   
## 3561 3562 3563 3564 3565 3566 3567 3568   
## 1.883724 1.529132 1.511677 1.894242 1.952363 1.689908 1.482162 1.876316   
## 3569 3570 3571 3572 3573 3574 3575 3576   
## 1.752332 1.742986 1.998230 1.833097 1.850152 1.594802 1.616942 2.188463   
## 3577 3578 3579 3580 3581 3582 3583 3584   
## 1.351459 1.823111 1.491330 1.702638 1.737965 1.266460 1.562945 1.714761   
## 3585 3586 3587 3588 3589 3590 3591 3592   
## 1.950534 1.526397 1.591571 1.432808 1.596000 1.368792 1.725993 1.502635   
## 3593 3594 3595 3596 3597 3598 3599 3600   
## 1.590870 1.921064 1.640642 1.988882 1.810706 1.640043 1.940348 1.763017   
## 3601 3602 3603 3604 3605 3606 3607 3608   
## 1.735650 1.846032 1.609609 1.728116 1.319136 1.740408 1.465156 1.692623   
## 3609 3610 3611 3612 3613 3614 3615 3616   
## 2.033269 1.447211 1.907765 1.479149 1.843157 2.218193 1.676731 1.581902   
## 3617 3618 3619 3620 3621 3622 3623 3624   
## 2.172701 1.541738 1.687170 2.093648 1.812270 1.886743 1.697639 1.852749   
## 3625 3626 3627 3628 3629 3630 3631 3632   
## 1.829998 1.602114 1.473312 1.341318 1.993092 2.049067 1.873943 1.828959   
## 3633 3634 3635 3636 3637 3638 3639 3640   
## 1.625215 1.632038 1.436029 1.916522 1.411102 2.006518 1.973447 1.832913   
## 3641 3642 3643 3644 3645 3646 3647 3648   
## 1.770200 1.394587 1.666759 2.082065 1.944864 1.998024 1.559093 1.850190   
## 3649 3650 3651 3652 3653 3654 3655 3656   
## 1.589931 1.915621 1.898784 1.936898 1.755083 1.892485 1.693047 1.716142   
## 3657 3658 3659 3660 3661 3662 3663 3664   
## 1.678254 1.339678 1.654967 1.931647 1.617518 1.487579 1.759619 1.617563   
## 3665 3666 3667 3668 3669 3670 3671 3672   
## 1.892620 1.340357 1.747340 1.520596 1.640778 1.801538 1.912884 1.654687   
## 3673 3674 3675 3676 3677 3678 3679 3680   
## 1.720596 1.758141 1.627733 1.488323 1.411394 2.173795 1.580502 1.871619   
## 3681 3682 3683 3684 3685 3686 3687 3688   
## 1.401286 1.617677 1.580170 1.342061 1.583480 1.812301 1.559438 1.824110   
## 3689 3690 3691 3692 3693 3694 3695 3696   
## 1.941254 1.482459 1.676368 1.611611 1.726771 1.881290 1.845299 1.946659   
## 3697 3698 3699 3700 3701 3702 3703 3704   
## 1.458022 1.897359 2.021174 2.123018 1.558461 2.124384 1.919491 1.577638   
## 3705 3706 3707 3708 3709 3710 3711 3712   
## 1.897402 1.989487 1.955806 1.549825 2.124907 1.365648 1.299088 1.791886   
## 3713 3714 3715 3716 3717 3718 3719 3720   
## 1.654782 1.952644 1.909979 1.803034 1.904672 1.870023 2.016893 1.386993   
## 3721 3722 3723 3724 3725 3726 3727 3728   
## 1.452936 1.227837 2.038097 2.023185 1.654629 1.411846 1.825862 1.927668   
## 3729 3730 3731 3732 3733 3734 3735 3736   
## 1.886385 1.293923 1.837651 1.541512 1.653558 1.871108 1.415655 2.050490   
## 3737 3738 3739 3740 3741 3742 3743 3744   
## 1.689612 1.747467 1.670836 1.353877 1.406845 1.650018 1.986342 1.195632   
## 3745 3746 3747 3748 3749 3750 3751 3752   
## 1.656190 1.796379 2.058340 1.669047 1.808834 1.354851 1.561000 1.939588   
## 3753 3754 3755 3756 3757 3758 3759 3760   
## 1.719912 1.343868 1.439317 2.030000 1.607879 1.360382 1.822868 1.754627   
## 3761 3762 3763 3764 3765 3766 3767 3768   
## 1.599346 1.969770 1.689998 1.836193 2.063934 1.354973 1.342372 1.601794   
## 3769 3770 3771 3772 3773 3774 3775 3776   
## 1.750378 1.475626 1.758120 2.063887 1.611523 2.109051 2.023607 1.932067   
## 3777 3778 3779 3780 3781 3782 3783 3784   
## 1.379407 1.709257 1.407297 1.299242 1.516842 1.731098 1.974253 1.831969   
## 3785 3786 3787 3788 3789 3790 3791 3792   
## 1.874955 1.438727 1.385468 1.825405 1.648100 1.398585 1.599570 1.776227   
## 3793 3794 3795 3796 3797 3798 3799 3800   
## 1.565724 1.857756 1.977197 1.463780 1.809206 1.840618 1.467339 1.342294   
## 3801 3802 3803 3804 3805 3806 3807 3808   
## 1.475099 1.419333 1.837822 1.998843 1.676197 1.709725 1.871719 1.847873   
## 3809 3810 3811 3812 3813 3814 3815 3816   
## 2.101124 1.357076 1.908623 2.029410 1.873960 1.822762 1.865594 1.296908   
## 3817 3818 3819 3820 3821 3822 3823 3824   
## 1.359533 2.187556 1.546789 2.055778 1.847110 2.092050 1.481986 1.267225   
## 3825 3826 3827 3828 3829 3830 3831 3832   
## 1.487610 1.839303 1.555886 1.908550 1.936123 2.013492 1.425326 1.414337   
## 3833 3834 3835 3836 3837 3838 3839 3840   
## 1.864222 1.988522 1.454625 1.448887 1.389039 1.793590 1.433441 1.645941   
## 3841 3842 3843 3844 3845 3846 3847 3848   
## 1.798848 1.667971 1.815568 2.014628 1.987469 1.784919 1.667315 1.727524   
## 3849 3850 3851 3852 3853 3854 3855 3856   
## 1.956003 1.740971 1.838289 1.949523 1.717186 1.652008 1.648007 2.061001   
## 3857 3858 3859 3860 3861 3862 3863 3864   
## 1.381893 1.441344 1.776928 1.902901 1.744602 1.575003 1.631588 1.852863   
## 3865 3866 3867 3868 3869 3870 3871 3872   
## 1.252670 1.457952 2.024471 1.637858 1.605562 1.399103 1.653417 2.019952   
## 3873 3874 3875 3876 3877 3878 3879 3880   
## 1.645100 1.689620 2.174155 1.621488 1.462967 1.453129 1.351944 1.802981   
## 3881 3882 3883 3884 3885 3886 3887 3888   
## 1.529123 1.399727 1.905383 1.885186 1.875395 1.866546 1.576517 1.978958   
## 3889 3890 3891 3892 3893 3894 3895 3896   
## 2.050644 1.967785 2.012785 1.941825 1.631090 1.965521 1.895706 1.658244   
## 3897 3898 3899 3900 3901 3902 3903 3904   
## 1.774726 1.912629 1.567796 1.401489 1.563748 1.852499 1.941047 1.576452   
## 3905 3906 3907 3908 3909 3910 3911 3912   
## 1.780608 1.966358 2.065356 1.956398 1.832672 1.475266 1.411575 1.429744   
## 3913 3914 3915 3916 3917 3918 3919 3920   
## 1.283986 1.920844 1.761415 1.609349 1.332530 1.645393 1.815078 1.667718   
## 3921 3922 3923 3924 3925 3926 3927 3928   
## 1.773641 1.403691 1.877796 1.892291 1.781084 1.311907 1.848812 1.830729   
## 3929 3930 3931 3932 3933 3934 3935 3936   
## 2.089317 1.725229 1.776972 1.691481 1.426958 1.632365 1.820693 1.615968   
## 3937 3938 3939 3940 3941 3942 3943 3944   
## 1.607971 1.889644 1.727368 1.652468 1.726993 1.769887 1.714598 1.490997   
## 3945 3946 3947 3948 3949 3950 3951 3952   
## 2.148037 1.930775 1.437218 1.282756 1.555058 1.276906 1.774593 1.455340   
## 3953 3954 3955 3956 3957 3958 3959 3960   
## 1.878357 1.621696 1.599122 1.273730 2.095416 1.989180 1.600590 2.014789   
## 3961 3962 3963 3964 3965 3966 3967 3968   
## 1.933235 2.103919 1.435059 1.993335 1.923452 1.853685 1.834298 1.781105   
## 3969 3970 3971 3972 3973 3974 3975 3976   
## 1.351657 1.573110 1.959431 1.338138 2.014660 1.442526 1.325109 2.065654   
## 3977 3978 3979 3980 3981 3982 3983 3984   
## 1.570297 2.090008 1.705352 2.029318 1.386149 1.952403 1.618865 1.354554   
## 3985 3986 3987 3988 3989 3990 3991 3992   
## 1.387260 2.051424 2.183007 1.594321 1.647693 1.951909 1.962631 1.926684   
## 3993 3994 3995 3996 3997 3998 3999 4000   
## 1.358476 1.450356 1.756223 2.145550 1.988064 2.154022 1.706296 2.075032   
## 4001 4002 4003 4004 4005 4006 4007 4008   
## 2.015617 1.793710 2.081625 1.802281 1.924532 1.661245 1.594194 1.708332   
## 4009 4010 4011 4012 4013 4014 4015 4016   
## 1.834281 1.636313 1.816408 1.767785 1.334632 1.976023 1.773391 1.836375   
## 4017 4018 4019 4020 4021 4022 4023 4024   
## 1.988652 1.644943 1.444449 2.014547 1.618746 2.036021 2.067512 1.679461   
## 4025 4026 4027 4028 4029 4030 4031 4032   
## 1.928011 1.745402 2.150173 1.719618 1.732465 1.823526 2.025385 2.040836   
## 4033 4034 4035 4036 4037 4038 4039 4040   
## 1.278413 1.930720 1.882168 1.626557 1.871041 2.019542 1.466583 1.708114   
## 4041 4042 4043 4044 4045 4046 4047 4048   
## 1.846766 1.992745 1.637594 1.594962 1.823377 1.563707 1.675454 1.553799   
## 4049 4050 4051 4052 4053 4054 4055 4056   
## 1.934514 1.468861 2.068143 1.656751 1.546283 1.927746 1.771770 1.447356   
## 4057 4058 4059 4060 4061 4062 4063 4064   
## 1.367148 1.699829 1.811065 2.008734 2.106199 1.858484 1.963159 1.597208   
## 4065 4066 4067 4068 4069 4070 4071 4072   
## 1.623922 1.346372 1.702182 1.584315 1.802157 1.932565 1.278909 1.868930   
## 4073 4074 4075 4076 4077 4078 4079 4080   
## 1.465839 1.926630 1.403726 1.922951 1.653506 1.408780 1.714227 2.155717   
## 4081 4082 4083 4084 4085 4086 4087 4088   
## 1.775044 1.438960 1.389095 1.717766 1.668061 1.753075 1.499211 1.517954   
## 4089 4090 4091 4092 4093 4094 4095 4096   
## 1.499699 1.547201 1.822075 1.757397 1.700243 2.035969 1.641230 1.699732   
## 4097 4098 4099 4100 4101 4102 4103 4104   
## 1.852988 1.665763 1.957340 1.336160 1.924238 1.935104 1.567647 2.165957   
## 4105 4106 4107 4108 4109 4110 4111 4112   
## 1.776396 1.763740 1.908362 2.049456 1.986007 1.947203 1.919729 1.694396   
## 4113 4114 4115 4116 4117 4118 4119 4120   
## 1.897052 1.628543 1.423127 2.093313 1.576790 1.291205 1.730152 1.848464   
## 4121 4122 4123 4124 4125 4126 4127 4128   
## 1.974875 1.732962 1.575826 1.708485 1.753075 1.603413 1.685692 1.644968   
## 4129 4130 4131 4132 4133 4134 4135 4136   
## 1.877908 1.999393 1.821428 1.345425 1.452352 1.770938 1.589011 2.129876   
## 4137 4138 4139 4140 4141 4142 4143 4144   
## 1.430171 1.483171 1.809213 1.528380 2.022358 1.902820 1.904366 1.282254   
## 4145 4146 4147 4148 4149 4150 4151 4152   
## 1.670504 2.097081 1.923123 1.374629 1.935005 1.760743 1.696907 1.969386   
## 4153 4154 4155 4156 4157 4158 4159 4160   
## 1.747726 1.840820 1.602545 2.100139 2.029320 1.991898 1.404247 1.900352   
## 4161 4162 4163 4164 4165 4166 4167 4168   
## 1.807512 1.917548 1.393740 2.057490 1.788738 1.808973 1.340747 1.794116   
## 4169 4170 4171 4172 4173 4174 4175 4176   
## 2.034267 1.944290 1.744109 2.043234 1.372892 1.568368 1.635605 1.482071   
## 4177 4178 4179 4180 4181 4182 4183 4184   
## 1.715633 1.334754 1.807862 1.845223 2.029391 1.438690 2.104264 1.466266   
## 4185 4186 4187 4188 4189 4190 4191 4192   
## 1.766944 1.931159 1.851541 1.997048 1.766660 2.066262 1.433713 2.017169   
## 4193 4194 4195 4196 4197 4198 4199 4200   
## 1.720469 2.011801 2.133613 1.900567 1.885590 1.334471 1.787352 2.012499   
## 4201 4202 4203 4204 4205 4206 4207 4208   
## 1.704278 1.903395 1.914269 1.800670 1.389077 1.331778 1.682243 1.324675   
## 4209 4210 4211 4212 4213 4214 4215 4216   
## 1.925838 2.153406 1.362840 1.738979 1.781637 2.020581 1.830032 1.836101   
## 4217 4218 4219 4220 4221 4222 4223 4224   
## 1.405788 2.081809 1.824524 1.345780 2.179561 1.438030 1.945655 1.524038   
## 4225 4226 4227 4228 4229 4230 4231 4232   
## 2.171645 1.393313 1.868588 1.896184 1.881277 1.821249 1.510978 2.026509   
## 4233 4234 4235 4236 4237 4238 4239 4240   
## 1.845189 1.366047 1.835868 1.807114 1.877208 2.053220 2.088200 1.907448   
## 4241 4242 4243 4244 4245 4246 4247 4248   
## 2.008265 1.817036 1.658094 1.965880 1.852790 1.606396 1.452780 1.590592   
## 4249 4250 4251 4252 4253 4254 4255 4256   
## 1.529167 2.013425 1.697967 1.642140 1.763341 1.899749 1.965441 1.611120   
## 4257 4258 4259 4260 4261 4262 4263 4264   
## 1.990494 1.525559 1.700972 1.928685 2.104050 1.705498 1.575083 2.086744   
## 4265 4266 4267 4268 4269 4270 4271 4272   
## 1.943324 1.957247 1.576193 2.001697 1.689706 1.615224 1.760841 1.689148   
## 4273 4274 4275 4276 4277 4278 4279 4280   
## 1.809119 2.062894 1.802401 1.707475 1.367274 1.476380 2.031177 1.404363   
## 4281 4282 4283 4284 4285 4286 4287 4288   
## 1.742967 1.364185 2.033815 1.631226 1.988319 1.460436 1.355214 1.512390   
## 4289 4290 4291 4292 4293 4294 4295 4296   
## 2.049006 1.873716 1.933509 1.673625 1.718781 1.883432 2.046090 1.777730   
## 4297 4298 4299 4300 4301 4302 4303 4304   
## 1.956256 1.996469 1.915092 1.678907 1.405375 1.583072 1.534464 2.031883   
## 4305 4306 4307 4308 4309 4310 4311 4312   
## 1.551578 1.898899 1.598904 1.349078 1.397627 2.118964 1.838397 1.922637   
## 4313 4314 4315 4316 4317 4318 4319 4320   
## 1.866628 2.047814 1.381224 1.404092 1.576162 1.836781 1.819251 1.296560   
## 4321 4322 4323 4324 4325 4326 4327 4328   
## 1.425879 1.584518 1.525466 1.544475 2.068821 2.075457 1.672714 1.551128   
## 4329 4330 4331 4332 4333 4334 4335 4336   
## 1.396621 1.919402 1.677333 1.588731 1.846312 1.721766 1.560723 1.941389   
## 4337 4338 4339 4340 4341 4342 4343 4344   
## 1.324594 1.910266 2.021008 1.867337 1.774176 1.761626 1.345184 1.736895   
## 4345 4346 4347 4348 4349 4350 4351 4352   
## 1.819461 1.841035 1.406307 2.024357 1.604824 1.819458 1.855367 1.614537   
## 4353 4354 4355 4356 4357 4358 4359 4360   
## 1.410601 1.536102 1.912501 1.989610 1.635442 2.061479 1.990164 1.503057   
## 4361 4362 4363 4364 4365 4366 4367 4368   
## 1.875503 1.335652 1.622441 1.791137 1.878308 1.803376 1.935983 2.081255   
## 4369 4370 4371 4372 4373 4374 4375 4376   
## 1.912396 1.700083 1.469497 1.991459 1.806031 1.548860 1.550237 2.075825   
## 4377 4378 4379 4380 4381 4382 4383 4384   
## 1.496725 1.853439 2.165905 1.780914 1.939646 1.492566 1.856358 1.652229   
## 4385 4386 4387 4388 4389 4390 4391 4392   
## 1.837329 1.392914 1.741052 1.773948 1.513837 2.029722 2.080361 1.891120   
## 4393 4394 4395 4396 4397 4398 4399 4400   
## 1.601678 1.652367 1.810459 1.784755 1.520619 1.434823 1.839528 1.850432   
## 4401 4402 4403 4404 4405 4406 4407 4408   
## 2.027192 2.068300 1.416953 1.867319 2.008103 1.423290 1.879452 2.036725   
## 4409 4410 4411 4412 4413 4414 4415 4416   
## 1.542874 1.417435 2.051976 1.853131 1.903647 1.561069 1.552070 1.730885   
## 4417 4418 4419 4420 4421 4422 4423 4424   
## 1.640790 1.693257 1.561296 1.815026 1.504721 2.197998 1.947802 1.490396   
## 4425 4426 4427 4428 4429 4430 4431 4432   
## 1.897000 1.353038 1.553798 1.465742 1.787724 1.776352 1.953194 1.949508   
## 4433 4434 4435 4436 4437 4438 4439 4440   
## 1.845783 2.009981 1.370886 1.640774 1.811998 1.941422 1.311240 1.859809   
## 4441 4442 4443 4444 4445 4446 4447 4448   
## 1.394095 1.809306 1.702131 1.490307 2.165260 1.308197 1.822530 1.590059   
## 4449 4450 4451 4452 4453 4454 4455 4456   
## 1.989820 1.659878 1.581283 1.250826 1.627517 1.528421 1.393611 1.405818   
## 4457 4458 4459 4460 4461 4462 4463 4464   
## 1.575714 1.623714 1.365091 1.828745 1.750787 1.900778 1.643029 1.609403   
## 4465 4466 4467 4468 4469 4470 4471 4472   
## 2.013542 1.375830 1.917320 1.821915 1.798564 1.820093 1.553378 2.016388   
## 4473 4474 4475 4476 4477 4478 4479 4480   
## 1.395688 1.725823 1.376050 2.046352 1.402100 2.115040 1.717173 1.844391   
## 4481 4482 4483 4484 4485 4486 4487 4488   
## 1.649395 1.923410 1.777401 1.776364 1.988844 1.919187 1.431955 1.400008   
## 4489 4490 4491 4492 4493 4494 4495 4496   
## 2.178757 1.717141 1.845791 1.493325 1.929248 2.003372 1.576001 1.467300   
## 4497 4498 4499 4500 4501 4502 4503 4504   
## 1.966513 1.981388 2.031691 1.744280 1.883092 1.418094 1.820776 1.772627   
## 4505 4506 4507 4508 4509 4510 4511 4512   
## 1.987933 2.100342 1.495607 1.469258 2.149794 1.252762 1.328303 1.778363   
## 4513 4514 4515 4516 4517 4518 4519 4520   
## 1.855184 1.801218 1.938654 1.503659 1.514733 1.645436 1.541870 1.768621   
## 4521 4522 4523 4524 4525 4526 4527 4528   
## 1.662239 1.688231 2.070516 1.436041 1.438492 1.851207 1.721417 1.454073   
## 4529 4530 4531 4532 4533 4534 4535 4536   
## 1.409535 1.528020 1.455585 1.975532 1.825574 1.525034 1.522739 2.008718   
## 4537 4538 4539 4540 4541 4542 4543 4544   
## 1.342106 1.668667 1.451965 1.754265 1.485657 1.534291 2.037818 1.746362   
## 4545 4546 4547 4548 4549 4550 4551 4552   
## 1.787208 2.006209 1.592382 1.964656 1.425641 1.853933 1.388690 1.845623   
## 4553 4554 4555 4556 4557 4558 4559 4560   
## 1.403924 1.654270 2.066966 1.428923 1.809206 2.029450 1.859736 1.534951   
## 4561 4562 4563 4564 4565 4566 4567 4568   
## 1.675550 1.754658 1.782533 1.524160 1.664865 2.112855 1.751537 1.756696   
## 4569 4570 4571 4572 4573 4574 4575 4576   
## 1.881413 1.701109 1.623521 1.537954 2.098893 2.046110 2.107454 2.128002   
## 4577 4578 4579 4580 4581 4582 4583 4584   
## 2.068154 1.232547 2.016879 1.599149 1.553980 1.937359 1.869424 1.779348   
## 4585 4586 4587 4588 4589 4590 4591 4592   
## 1.876023 1.854931 1.540852 2.068140 1.455067 1.370354 1.703958 1.892809   
## 4593 4594 4595 4596 4597 4598 4599 4600   
## 1.933619 1.630463 1.973116 1.721259 1.724051 2.023321 1.884386 1.617232   
## 4601 4602 4603 4604 4605 4606 4607 4608   
## 1.821452 1.765914 1.961913 2.010884 1.985102 1.624359 1.846011 2.181246   
## 4609 4610 4611 4612 4613 4614 4615 4616   
## 1.699746 1.775830 1.268396 1.429321 2.043917 1.676828 1.673690 1.711176   
## 4617 4618 4619 4620 4621 4622 4623 4624   
## 1.342081 1.417091 1.642480 1.859996 1.827692 1.793728 1.766254 1.299842   
## 4625 4626 4627 4628 4629 4630 4631 4632   
## 1.831520 2.039847 1.841440 2.039924 2.013250 2.044256 1.343388 1.352057   
## 4633 4634 4635 4636 4637 4638 4639 4640   
## 1.426877 1.607743 2.073138 1.540580 1.693083 1.477252 1.387737 1.673914   
## 4641 4642 4643 4644 4645 4646 4647 4648   
## 1.407965 1.979221 1.863210 1.524368 1.876574 1.699660 1.941989 1.729623   
## 4649 4650 4651 4652 4653 4654 4655 4656   
## 1.487877 1.694350 1.671566 1.856233 1.811274 2.122832 1.904173 1.309518   
## 4657 4658 4659 4660 4661 4662 4663 4664   
## 1.405395 2.033604 1.843314 1.882850 1.620388 2.028208 1.878900 1.401719   
## 4665 4666 4667 4668 4669 4670 4671 4672   
## 1.726180 1.430179 1.815932 1.611836 1.839287 1.424607 1.278559 2.067646   
## 4673 4674 4675 4676 4677 4678 4679 4680   
## 1.658549 1.295410 1.475321 1.390892 1.918948 1.726214 1.964151 1.432480   
## 4681 4682 4683 4684 4685 4686 4687 4688   
## 1.725157 1.817429 1.749772 1.571583 1.526652 2.023475 1.814321 1.934678   
## 4689 4690 4691 4692 4693 4694 4695 4696   
## 1.805827 1.759136 1.868056 1.888821 1.587044 1.354110 1.702252 1.482228   
## 4697 4698 4699 4700 4701 4702 4703 4704   
## 1.655301 1.515263 1.592683 1.737082 2.042295 1.649503 1.803389 1.935907   
## 4705 4706 4707 4708 4709 4710 4711 4712   
## 1.743646 1.771829 2.062796 2.058176 2.081903 1.666247 1.848394 1.500883   
## 4713 4714 4715 4716 4717 4718 4719 4720   
## 1.801744 1.807347 1.982085 1.428143 1.979397 1.628278 1.972119 2.022410   
## 4721 4722 4723 4724 4725 4726 4727 4728   
## 1.984715 1.891821 1.496488 1.922584 2.118079 1.547374 1.947541 1.820837   
## 4729 4730 4731 4732 4733 4734 4735 4736   
## 2.096956 1.998697 1.332218 1.479178 1.668523 1.340395 2.035266 1.974482   
## 4737 4738 4739 4740 4741 4742 4743 4744   
## 1.984023 1.452980 1.340026 1.965956 1.923735 1.677190 1.761680 1.807201   
## 4745 4746 4747 4748 4749 4750 4751 4752   
## 1.909390 1.425408 2.055524 1.531610 1.869495 1.656574 2.062170 1.355717   
## 4753 4754 4755 4756 4757 4758 4759 4760   
## 2.105616 2.088547 1.588589 1.754291 1.603679 1.772387 1.991977 1.890897   
## 4761 4762 4763 4764 4765 4766 4767 4768   
## 2.072180 1.973194 1.884697 1.360332 2.137997 1.708409 1.705351 1.479971   
## 4769 4770 4771 4772 4773 4774 4775 4776   
## 1.428184 1.674395 1.987353 1.391066 1.490678 2.054703 1.423174 1.995693   
## 4777 4778 4779 4780 4781 4782 4783 4784   
## 1.758280 1.458344 1.858290 1.726628 1.951358 1.435084 1.414603 1.835813   
## 4785 4786 4787 4788 4789 4790 4791 4792   
## 1.694582 1.734800 1.817114 2.002850 1.741928 2.028363 1.499859 1.826285   
## 4793 4794 4795 4796 4797 4798 4799 4800   
## 1.187511 2.195710 1.860085 1.631525 1.851312 2.013822 1.977367 1.721818   
## 4801 4802 4803 4804 4805 4806 4807 4808   
## 2.034891 1.774421 1.395578 1.593833 1.689052 1.632406 1.473606 1.652673   
## 4809 4810 4811 4812 4813 4814 4815 4816   
## 1.985934 1.805999 1.871889 2.084627 1.971307 1.816652 2.025777 1.717875   
## 4817 4818 4819 4820 4821 4822 4823 4824   
## 1.751417 1.475921 1.245061 1.449322 1.841752 1.655296 1.963230 1.785870   
## 4825 4826 4827 4828 4829 4830 4831 4832   
## 1.912845 1.907421 2.076648 1.747838 1.772348 1.424414 1.841610 1.381189   
## 4833 4834 4835 4836 4837 4838 4839 4840   
## 1.749187 1.495013 1.634624 2.123163 1.991568 1.871818 1.508751 1.485237   
## 4841 4842 4843 4844 4845 4846 4847 4848   
## 1.253691 1.659320 1.767098 1.357946 2.041242 1.819750 1.712202 1.959231   
## 4849 4850 4851 4852 4853 4854 4855 4856   
## 1.515996 1.676422 2.111674 1.871266 1.887794 1.791554 1.398835 2.062368   
## 4857 4858 4859 4860 4861 4862 4863 4864   
## 1.865775 1.643821 1.548801 1.510091 1.483111 1.437416 1.937761 1.945309   
## 4865 4866 4867 4868 4869 4870 4871 4872   
## 2.065409 1.827030 1.719533 1.694033 1.437656 1.940575 1.641822 1.786622   
## 4873 4874 4875 4876 4877 4878 4879 4880   
## 2.025363 1.661171 2.018808 1.545561 1.590698 1.874926 1.866777 1.925535   
## 4881 4882 4883 4884 4885 4886 4887 4888   
## 1.702684 1.802092 1.755137 1.547454 1.360819 1.648711 1.802509 1.733878   
## 4889 4890 4891 4892 4893 4894 4895 4896   
## 1.696058 1.701484 1.614330 1.479367 1.451348 1.421591 1.861390 1.322562   
## 4897 4898 4899 4900 4901 4902 4903 4904   
## 1.517919 2.018360 1.948011 2.040750 1.394025 2.021406 1.896071 2.008741   
## 4905 4906 4907 4908 4909 4910 4911 4912   
## 1.505027 1.915141 2.158301 1.678231 1.418792 1.846198 2.075026 2.030354   
## 4913 4914 4915 4916 4917 4918 4919 4920   
## 2.123994 1.565758 1.969660 1.882357 1.498401 1.845497 2.063350 1.980779   
## 4921 4922 4923 4924 4925 4926 4927 4928   
## 1.623378 2.008244 1.607561 1.398191 1.699316 1.574127 1.896916 1.891657   
## 4929 4930 4931 4932 4933 4934 4935 4936   
## 1.680260 1.887385 1.535497 1.817385 1.401239 1.765711 1.570264 2.132953   
## 4937 4938 4939 4940 4941 4942 4943 4944   
## 1.752847 1.968108 1.358962 1.414380 1.607956 1.473159 1.308140 1.405043   
## 4945 4946 4947 4948 4949 4950 4951 4952   
## 1.418297 1.969932 1.307437 1.451675 1.297810 1.795821 1.739506 1.791615   
## 4953 4954 4955 4956 4957 4958 4959 4960   
## 1.501516 1.685080 1.708359 1.909264 1.490159 1.487691 1.695006 1.553985   
## 4961 4962 4963 4964 4965 4966 4967 4968   
## 1.840773 1.831430 1.636757 1.805935 2.057826 1.455602 1.624333 1.856504   
## 4969 4970 4971 4972 4973 4974 4975 4976   
## 1.873944 1.895328 1.603096 1.969845 1.817812 1.505204 1.679771 1.624098   
## 4977 4978 4979 4980 4981 4982 4983 4984   
## 1.939610 2.100107 1.471702 2.066672 1.917003 1.701853 1.678170 1.803885   
## 4985 4986 4987 4988 4989 4990 4991 4992   
## 1.750553 2.058758 1.446004 1.390785 1.996527 1.556659 1.773625 1.954972   
## 4993 4994 4995 4996 4997 4998 4999 5000   
## 1.689392 1.750002 1.950161 1.428177 1.754883 1.723971 1.645145 1.871970   
## 5001 5002 5003 5004 5005 5006 5007 5008   
## 1.922457 1.978690 1.988970 1.589793 1.833498 1.549657 1.766803 1.741666   
## 5009 5010 5011 5012 5013 5014 5015 5016   
## 1.833268 1.852417 2.120348 1.258402 1.949633 1.631079 2.108826 1.398521   
## 5017 5018 5019 5020 5021 5022 5023 5024   
## 2.041245 1.452701 1.898380 1.336157 2.013538 1.688145 1.398088 1.430113   
## 5025 5026 5027 5028 5029 5030 5031 5032   
## 1.376581 1.759395 1.810069 1.519929 1.328358 1.344211 1.826603 1.303199   
## 5033 5034 5035 5036 5037 5038 5039 5040   
## 1.535108 1.897854 1.922650 1.399331 1.562167 1.654083 1.637800 1.567970   
## 5041 5042 5043 5044 5045 5046 5047 5048   
## 1.709143 1.776879 1.838128 1.716354 1.692060 1.476740 2.009960 1.946152   
## 5049 5050 5051 5052 5053 5054 5055 5056   
## 2.124431 1.385744 1.777421 1.491984 1.677726 1.952076 1.720829 1.471410   
## 5057 5058 5059 5060 5061 5062 5063 5064   
## 1.652052 1.812328 1.821387 1.871335 2.049158 1.407457 1.627820 1.463330   
## 5065 5066 5067 5068 5069 5070 5071 5072   
## 1.350496 1.615384 2.018838 1.598762 1.575211 1.930604 1.928172 1.499895   
## 5073 5074 5075 5076 5077 5078 5079 5080   
## 1.843657 2.050767 1.926294 1.880159 1.945635 1.696730 1.927419 1.803729   
## 5081 5082 5083 5084 5085 5086 5087 5088   
## 2.097047 1.603722 1.358036 1.605035 1.840894 1.874764 1.918651 1.920507   
## 5089 5090 5091 5092 5093 5094 5095 5096   
## 2.193356 1.685611 1.291718 1.871215 1.453655 1.532642 1.952811 1.654659   
## 5097 5098 5099 5100 5101 5102 5103 5104   
## 1.935013 1.635326 1.787329 1.797674 1.751892 2.195172 1.392924 1.671573   
## 5105 5106 5107 5108 5109 5110 5111 5112   
## 1.822445 2.069714 1.666562 2.084871 1.452050 1.974585 1.658261 1.467079   
## 5113 5114 5115 5116 5117 5118 5119 5120   
## 1.746028 1.745321 1.791026 1.453798 1.976625 1.299759 1.829609 1.905522   
## 5121 5122 5123 5124 5125 5126 5127 5128   
## 1.549582 1.391185 1.637483 1.509497 1.951124 1.366567 1.394391 1.814925   
## 5129 5130 5131 5132 5133 5134 5135 5136   
## 1.310852 1.717093 1.832971 2.003869 1.295444 1.774628 1.933823 1.956470   
## 5137 5138 5139 5140 5141 5142 5143 5144   
## 1.528000 1.971071 1.410857 1.712995 1.885458 2.021559 1.829100 1.820716   
## 5145 5146 5147 5148 5149 5150 5151 5152   
## 1.974916 1.521594 1.425140 1.584630 1.823258 1.932725 2.070248 1.380689   
## 5153 5154 5155 5156 5157 5158 5159 5160   
## 1.474515 1.857043 1.879593 1.712260 1.629232 1.357164 1.814540 2.060847   
## 5161 5162 5163 5164 5165 5166 5167 5168   
## 1.386871 1.780992 1.807858 1.696212 2.042150 1.685834 1.367097 1.894889   
## 5169 5170 5171 5172 5173 5174 5175 5176   
## 1.771845 1.452656 1.747345 1.555519 2.071701 2.114256 1.840004 1.518890   
## 5177 5178 5179 5180 5181 5182 5183 5184   
## 1.919338 1.981288 1.443056 1.479752 1.417168 1.614838 1.372794 1.808430   
## 5185 5186 5187 5188 5189 5190 5191 5192   
## 2.078560 2.051134 1.533913 2.168649 1.763467 1.915480 1.662283 1.710218   
## 5193 5194 5195 5196 5197 5198 5199 5200   
## 1.796729 1.831128 1.881247 1.613588 1.624240 1.706558 2.057323 1.543461   
## 5201 5202 5203 5204 5205 5206 5207 5208   
## 1.876091 1.970564 1.815489 1.329042 2.079536 1.298282 1.473335 1.844645   
## 5209 5210 5211 5212 5213 5214 5215 5216   
## 1.830111 1.726815 1.804745 1.960485 1.712992 1.664322 2.032468 1.537770   
## 5217 5218 5219 5220 5221 5222 5223 5224   
## 1.830403 1.813520 1.309822 1.626151 1.558184 1.904635 1.294718 1.831860   
## 5225 5226 5227 5228 5229 5230 5231 5232   
## 1.399544 1.665625 1.440555 1.723722 1.741439 1.875738 1.972361 1.850145   
## 5233 5234 5235 5236 5237 5238 5239 5240   
## 1.940214 1.421220 1.547691 1.587135 2.064928 1.351884 1.401597 1.877327   
## 5241 5242 5243 5244 5245 5246 5247 5248   
## 2.091751 1.358206 1.369490 1.785847 1.734546 2.046948 1.495030 1.800333   
## 5249 5250 5251 5252 5253 5254 5255 5256   
## 1.425726 1.847461 1.480512 1.536227 1.737379 2.011333 1.748344 1.792777   
## 5257 5258 5259 5260 5261 5262 5263 5264   
## 1.784605 1.952734 1.838741 2.130234 1.602053 1.860721 1.616889 1.332887   
## 5265 5266 5267 5268 5269 5270 5271 5272   
## 2.117567 1.793358 1.650602 2.050487 1.375115 1.752957 2.078913 1.734151   
## 5273 5274 5275 5276 5277 5278 5279 5280   
## 2.180049 1.236654 1.804265 1.455508 2.055577 1.500388 1.820738 1.346562   
## 5281 5282 5283 5284 5285 5286 5287 5288   
## 1.850440 2.077954 1.859247 1.888965 1.691574 1.916675 1.685112 1.926436   
## 5289 5290 5291 5292 5293 5294 5295 5296   
## 2.027897 1.616078 1.413711 1.357952 1.502011 1.674569 1.830300 1.475891   
## 5297 5298 5299 5300 5301 5302 5303 5304   
## 1.934404 1.420978 1.311299 2.068690 2.068662 1.941518 1.845643 1.689066   
## 5305 5306 5307 5308 5309 5310 5311 5312   
## 1.676968 2.077857 1.595893 1.696387 1.689781 2.000302 1.900098 2.061892   
## 5313 5314 5315 5316 5317 5318 5319 5320   
## 1.936762 1.755906 1.733479 1.807968 1.888676 1.826230 1.993868 1.972564   
## 5321 5322 5323 5324 5325 5326 5327 5328   
## 1.607981 1.444422 1.954732 1.987638 1.449552 1.792785 1.879549 1.815898   
## 5329 5330 5331 5332 5333 5334 5335 5336   
## 1.779577 1.885404 1.531592 1.837734 1.287239 1.661892 1.966296 2.179223   
## 5337 5338 5339 5340 5341 5342 5343 5344   
## 1.581344 2.010267 1.998565 1.720197 1.996615 2.005870 1.443551 1.528404   
## 5345 5346 5347 5348 5349 5350 5351 5352   
## 1.679881 1.314639 1.697822 1.806794 2.056491 1.859455 1.597376 1.455803   
## 5353 5354 5355 5356 5357 5358 5359 5360   
## 1.826992 2.069636 2.057911 1.400951 2.108089 2.016306 2.065298 1.360290   
## 5361 5362 5363 5364 5365 5366 5367 5368   
## 1.891805 1.420054 1.727013 1.583975 1.940302 1.395591 1.645951 1.850891   
## 5369 5370 5371 5372 5373 5374 5375 5376   
## 1.604163 2.059112 1.696512 1.351058 1.530993 1.917460 1.501123 1.546903   
## 5377 5378 5379 5380 5381 5382 5383 5384   
## 1.667556 1.637527 1.676403 1.832124 1.717130 1.264423 1.561047 2.048112   
## 5385 5386 5387 5388 5389 5390 5391 5392   
## 1.396291 1.642343 1.367023 1.925836 1.398733 1.813754 2.005699 1.588016   
## 5393 5394 5395 5396 5397 5398 5399 5400   
## 1.973740 1.932646 1.832776 1.779397 1.608331 1.883185 2.199120 2.004228   
## 5401 5402 5403 5404 5405 5406 5407 5408   
## 1.414350 1.882536 1.510403 1.789757 1.402543 1.807724 1.607722 1.745137   
## 5409 5410 5411 5412 5413 5414 5415 5416   
## 1.826116 1.414679 1.911229 2.047244 1.989856 2.252540 1.408512 1.831296   
## 5417 5418 5419 5420 5421 5422 5423 5424   
## 1.481854 1.861321 1.591054 1.391575 2.147053 1.470180 1.902354 1.587836   
## 5425 5426 5427 5428 5429 5430 5431 5432   
## 1.763810 1.601647 1.816993 1.784046 1.498350 1.474838 1.382692 1.719467   
## 5433 5434 5435 5436 5437 5438 5439 5440   
## 2.149837 1.997274 1.750761 1.568153 1.793226 1.811808 1.649477 1.694734   
## 5441 5442 5443 5444 5445 5446 5447 5448   
## 2.018629 1.283050 1.903394 1.878717 2.085470 1.352243 1.837181 1.608071   
## 5449 5450 5451 5452 5453 5454 5455 5456   
## 1.775557 1.665083 1.375265 1.997768 2.023209 1.922952 1.639033 1.903904   
## 5457 5458 5459 5460 5461 5462 5463 5464   
## 1.766440 1.874784 1.814812 1.382473 1.626378 1.908056 1.493382 1.750266   
## 5465 5466 5467 5468 5469 5470 5471 5472   
## 1.708277 1.287282 1.837196 1.315768 2.090461 1.898516 1.501715 1.585619   
## 5473 5474 5475 5476 5477 5478 5479 5480   
## 1.304948 1.785530 1.678320 1.862222 1.641186 2.005860 1.912386 1.686425   
## 5481 5482 5483 5484 5485 5486 5487 5488   
## 1.665585 1.706480 1.769850 2.020789 1.264646 1.490824 1.529658 1.987868   
## 5489 5490 5491 5492 5493 5494 5495 5496   
## 1.745099 1.587436 1.380215 2.135078 1.667467 1.436996 1.991873 1.621108   
## 5497 5498 5499 5500 5501 5502 5503 5504   
## 1.773475 1.807719 1.896114 2.070638 1.671176 1.477951 2.035571 1.604001   
## 5505 5506 5507 5508 5509 5510 5511 5512   
## 1.966173 1.677769 1.961345 1.598589 1.933027 1.578464 1.694977 1.780173   
## 5513 5514 5515 5516 5517 5518 5519 5520   
## 1.893827 1.391826 1.451815 2.089548 1.942634 1.917596 1.804792 1.990334   
## 5521 5522 5523 5524 5525 5526 5527 5528   
## 1.811684 1.749417 1.954256 1.984673 1.322240 1.590734 1.986413 1.544923   
## 5529 5530 5531 5532 5533 5534 5535 5536   
## 1.938864 1.334531 1.931167 1.823341 1.788221 2.052980 1.554081 1.822202   
## 5537 5538 5539 5540 5541 5542 5543 5544   
## 1.480519 1.728126 1.301180 2.066155 1.390246 1.876284 1.826773 1.955187   
## 5545 5546 5547 5548 5549 5550 5551 5552   
## 1.529297 2.006198 2.124001 1.496010 1.415247 2.019973 1.605790 1.880875   
## 5553 5554 5555 5556 5557 5558 5559 5560   
## 1.812184 1.693455 1.812504 1.874929 1.575314 1.997438 1.832332 1.757044   
## 5561 5562 5563 5564 5565 5566 5567 5568   
## 1.360824 1.565927 1.842836 2.077442 1.351727 1.915910 2.152629 1.542582   
## 5569 5570 5571 5572 5573 5574 5575 5576   
## 2.001542 2.023880 2.107628 2.005597 1.998150 1.993064 1.510041 1.432895   
## 5577 5578 5579 5580 5581 5582 5583 5584   
## 1.764089 1.922930 1.650389 1.599958 2.005284 1.851370 1.321037 1.929488   
## 5585 5586 5587 5588 5589 5590 5591 5592   
## 1.892552 1.444132 1.813551 2.037362 1.434986 2.033409 1.473038 1.476729   
## 5593 5594 5595 5596 5597 5598 5599 5600   
## 1.786797 1.705714 1.668843 1.484423 1.652728 1.849365 1.634420 1.896959   
## 5601 5602 5603 5604 5605 5606 5607 5608   
## 1.536560 1.348251 1.630689 1.971718 2.172816 1.897660 1.780829 1.912180   
## 5609 5610 5611 5612 5613 5614 5615 5616   
## 1.806521 1.833467 1.408471 1.855059 1.360423 1.449192 1.818808 1.660037   
## 5617 5618 5619 5620 5621 5622 5623 5624   
## 1.841030 1.721859 1.325626 1.424431 1.758694 1.526427 1.611629 2.061294   
## 5625 5626 5627 5628 5629 5630 5631 5632   
## 1.779958 1.785663 1.705955 1.542434 1.805525 1.817388 1.817349 1.399956   
## 5633 5634 5635 5636 5637 5638 5639 5640   
## 1.948354 1.903485 1.453506 1.449199 1.908143 1.838671 1.748905 1.642885   
## 5641 5642 5643 5644 5645 5646 5647 5648   
## 1.890465 1.976761 1.655111 1.625422 1.384446 1.955992 2.002842 1.706754   
## 5649 5650 5651 5652 5653 5654 5655 5656   
## 1.341576 1.393540 2.053619 1.728267 1.775076 1.398893 1.473641 1.363700   
## 5657 5658 5659 5660 5661 5662 5663 5664   
## 1.678174 1.776127 1.818958 1.483597 1.603849 1.821282 2.030485 1.928104   
## 5665 5666 5667 5668 5669 5670 5671 5672   
## 1.864327 2.010132 1.410356 1.841050 1.737006 1.748615 1.316383 1.696759   
## 5673 5674 5675 5676 5677 5678 5679 5680   
## 1.823824 1.551336 1.610430 1.820726 2.050294 1.396548 1.850373 1.978226   
## 5681 5682 5683 5684 5685 5686 5687 5688   
## 1.448622 1.992104 1.859887 1.774657 1.874941 1.816457 1.953778 1.806405   
## 5689 5690 5691 5692 5693 5694 5695 5696   
## 1.857422 1.470474 1.483042 1.521780 1.753984 1.784960 2.016885 1.375538   
## 5697 5698 5699 5700 5701 5702 5703 5704   
## 1.811808 1.414155 1.646325 1.397395 1.882534 1.896728 1.409830 1.836350   
## 5705 5706 5707 5708 5709 5710 5711 5712   
## 1.985881 1.302161 1.604259 1.568411 1.918820 1.380198 1.928035 1.530875   
## 5713 5714 5715 5716 5717 5718 5719 5720   
## 1.955191 1.491654 1.802012 1.386854 1.872883 2.006426 1.919639 1.548930   
## 5721 5722 5723 5724 5725 5726 5727 5728   
## 1.873164 2.023499 1.780069 1.444089 2.122590 2.108026 2.039243 1.808834   
## 5729 5730 5731 5732 5733 5734 5735 5736   
## 1.756006 1.804745 1.886887 2.092133 1.374240 1.937557 1.938302 1.758364   
## 5737 5738 5739 5740 5741 5742 5743 5744   
## 1.983176 1.413345 1.790713 1.385351 1.624554 1.411747 2.034003 2.028692   
## 5745 5746 5747 5748 5749 5750 5751 5752   
## 1.777641 1.915671 1.374858 2.048086 1.770536 1.908526 1.391826 1.443751   
## 5753 5754 5755 5756 5757 5758 5759 5760   
## 2.023043 1.587878 1.410504 1.872126 1.791291 1.805663 1.989687 1.614935   
## 5761 5762 5763 5764 5765 5766 5767 5768   
## 1.943196 1.912658 1.833479 2.050671 1.876826 1.648488 1.821856 2.122661   
## 5769 5770 5771 5772 5773 5774 5775 5776   
## 2.178501 1.818646 1.747183 2.029771 1.571380 1.353214 1.240982 1.604169   
## 5777 5778 5779 5780 5781 5782 5783 5784   
## 1.987064 2.062955 1.634790 1.566846 1.971756 1.648631 1.703621 1.481992   
## 5785 5786 5787 5788 5789 5790 5791 5792   
## 1.622079 1.884473 1.560090 1.856528 1.600580 1.309704 1.543393 1.503853   
## 5793 5794 5795 5796 5797 5798 5799 5800   
## 1.466133 1.792156 1.376335 2.079440 1.699616 1.792126 2.068923 1.918070   
## 5801 5802 5803 5804 5805 5806 5807 5808   
## 1.377026 1.399464 1.944240 1.419442 1.907930 1.811236 1.284165 1.657098   
## 5809 5810 5811 5812 5813 5814 5815 5816   
## 1.628705 1.841891 2.010792 1.912781 1.938497 1.575475 1.813092 2.000038   
## 5817 5818 5819 5820 5821 5822 5823 5824   
## 1.350617 1.362699 1.532487 2.087172 1.823004 1.921831 1.346237 1.527918   
## 5825 5826 5827 5828 5829 5830 5831 5832   
## 1.607600 1.743179 1.997051 1.872141 1.508485 1.932824 1.323983 1.984832   
## 5833 5834 5835 5836 5837 5838 5839 5840   
## 1.723087 1.557832 1.543090 1.409922 1.347335 1.395996 1.687661 2.096794   
## 5841 5842 5843 5844 5845 5846 5847 5848   
## 2.033423 1.503138 1.648826 1.465870 1.851142 1.596106 1.888978 1.630109   
## 5849 5850 5851 5852 5853 5854 5855 5856   
## 1.472528 2.044377 2.145828 1.472673 1.991471 1.546518 1.347048 2.038986   
## 5857 5858 5859 5860 5861 5862 5863 5864   
## 1.803224 1.767363 1.928031 1.596029 1.715867 1.750506 1.713926 1.427243   
## 5865 5866 5867 5868 5869 5870 5871 5872   
## 1.548084 1.291401 2.089141 1.303743 1.702647 1.848015 1.951928 1.592239   
## 5873 5874 5875 5876 5877 5878 5879 5880   
## 1.847299 1.899333 1.786039 1.754313 1.882863 2.040110 1.736500 1.567232   
## 5881 5882 5883 5884 5885 5886 5887 5888   
## 1.664668 2.042218 1.582609 1.674074 1.869003 1.564335 1.741783 2.004289   
## 5889 5890 5891 5892 5893 5894 5895 5896   
## 2.081470 1.926359 1.650729 1.862308 1.660925 1.684435 1.859764 1.810874   
## 5897 5898 5899 5900 5901 5902 5903 5904   
## 1.365269 1.392146 1.597748 1.807719 1.697111 1.610868 1.705872 1.606793   
## 5905 5906 5907 5908 5909 5910 5911 5912   
## 1.705055 1.892360 2.029896 2.006969 1.766322 2.076360 2.081904 1.443221   
## 5913 5914 5915 5916 5917 5918 5919 5920   
## 1.806368 1.968742 1.437578 2.092059 1.712101 1.697555 1.983479 2.097993   
## 5921 5922 5923 5924 5925 5926 5927 5928   
## 1.766147 1.989197 1.355453 1.324665 1.216660 1.423565 1.570620 1.963229   
## 5929 5930 5931 5932 5933 5934 5935 5936   
## 1.277793 1.526772 1.731941 1.870472 1.774124 1.492118 1.353837 1.789736   
## 5937 5938 5939 5940 5941 5942 5943 5944   
## 1.777769 2.009183 1.897468 2.092608 1.897333 1.590840 1.576228 1.723899   
## 5945 5946 5947 5948 5949 5950 5951 5952   
## 1.641558 1.738245 2.224413 1.479620 1.454021 1.602509 2.015952 1.686087   
## 5953 5954 5955 5956 5957 5958 5959 5960   
## 1.656896 1.625577 1.670656 2.019938 1.852500 1.646189 1.537749 1.629569   
## 5961 5962 5963 5964 5965 5966 5967 5968   
## 1.733113 1.369324 2.111699 1.660076 1.806092 1.821679 1.482987 1.791562   
## 5969 5970 5971 5972 5973 5974 5975 5976   
## 2.064501 1.732361 2.057636 1.806458 1.960821 1.891700 1.551456 1.360563   
## 5977 5978 5979 5980 5981 5982 5983 5984   
## 1.985148 1.366184 1.910387 1.963493 1.194267 1.570277 1.446746 2.046919   
## 5985 5986 5987 5988 5989 5990 5991 5992   
## 1.479658 1.575005 2.111432 2.085507 1.337131 1.973791 1.697939 2.026690   
## 5993 5994 5995 5996 5997 5998 5999 6000   
## 1.553703 1.330458 2.122713 2.006968 1.856876 1.725882 1.818302 1.862441   
## 6001 6002 6003 6004 6005 6006 6007 6008   
## 1.576218 1.932096 1.934855 1.417212 1.613558 1.694092 1.469909 1.892128   
## 6009 6010 6011 6012 6013 6014 6015 6016   
## 1.721325 1.980494 1.715955 1.814019 1.806008 1.827623 1.992232 1.307807   
## 6017 6018 6019 6020 6021 6022 6023 6024   
## 1.844872 1.856104 1.974984 1.631453 1.486702 1.648843 1.621054 1.684459   
## 6025 6026 6027 6028 6029 6030 6031 6032   
## 1.418822 1.861878 1.784950 1.890385 1.740219 1.998473 1.604769 1.437687   
## 6033 6034 6035 6036 6037 6038 6039 6040   
## 1.816978 1.896204 1.511860 1.413817 1.989360 1.402565 1.592282 1.361932   
## 6041 6042 6043 6044 6045 6046 6047 6048   
## 2.056996 1.874731 1.847604 2.004390 1.936353 1.560768 1.561526 2.026835   
## 6049 6050 6051 6052 6053 6054 6055 6056   
## 1.678953 1.648989 1.891333 1.340995 1.661452 1.676671 2.055912 1.439845   
## 6057 6058 6059 6060 6061 6062 6063 6064   
## 2.009311 1.351356 1.728758 1.664667 2.040176 1.956205 1.912679 1.868515   
## 6065 6066 6067 6068 6069 6070 6071 6072   
## 1.998291 1.574531 1.745732 2.099672 1.946820 1.935510 1.719207 1.663681   
## 6073 6074 6075 6076 6077 6078 6079 6080   
## 1.663871 1.690102 1.969309 1.476048 1.532675 1.934346 1.702070 1.535388   
## 6081 6082 6083 6084 6085 6086 6087 6088   
## 1.246600 1.969413 1.220114 2.048169 1.915598 2.064028 1.768998 1.349125   
## 6089 6090 6091 6092 6093 6094 6095 6096   
## 2.186856 1.663833 2.088876 1.396644 1.927507 2.013352 1.866091 1.813216   
## 6097 6098 6099 6100 6101 6102 6103 6104   
## 1.782025 1.655524 1.809578 1.658016 1.608329 1.634582 1.601527 1.725681   
## 6105 6106 6107 6108 6109 6110 6111 6112   
## 1.496309 1.640661 2.058464 1.886281 2.061102 1.980663 1.761971 1.640406   
## 6113 6114 6115 6116 6117 6118 6119 6120   
## 1.959121 1.891746 1.917377 2.033680 1.309598 1.362944 1.815329 1.431002   
## 6121 6122 6123 6124 6125 6126 6127 6128   
## 1.748042 2.112424 1.613382 1.819212 1.576236 1.630966 2.029004 2.055090   
## 6129 6130 6131 6132 6133 6134 6135 6136   
## 1.790174 1.836267 1.859968 1.810952 1.611821 1.713450 1.950983 1.504682   
## 6137 6138 6139 6140 6141 6142 6143 6144   
## 2.104467 1.470829 1.658281 2.076331 1.639741 1.528352 1.488205 1.451968   
## 6145 6146 6147 6148 6149 6150 6151 6152   
## 2.046645 1.947223 1.824558 1.500978 1.815990 1.771572 1.894235 1.779890   
## 6153 6154 6155 6156 6157 6158 6159 6160   
## 1.540109 1.757099 1.416148 1.938031 1.366318 1.527567 1.764535 1.352237   
## 6161 6162 6163 6164 6165 6166 6167 6168   
## 1.612769 1.825338 1.646653 1.447867 1.558789 1.581767 1.682365 1.620345   
## 6169 6170 6171 6172 6173 6174 6175 6176   
## 1.610172 1.937745 1.254137 1.752519 1.719373 2.185673 1.769642 1.735998   
## 6177 6178 6179 6180 6181 6182 6183 6184   
## 1.685805 1.731899 1.935091 1.854871 2.116898 1.393265 1.728198 1.463131   
## 6185 6186 6187 6188 6189 6190 6191 6192   
## 1.412488 1.910742 1.398606 1.893981 1.758005 1.940777 1.500777 2.091905   
## 6193 6194 6195 6196 6197 6198 6199 6200   
## 1.490493 1.814785 1.972701 1.615234 1.592581 1.706446 1.677675 2.057463   
## 6201 6202 6203 6204 6205 6206 6207 6208   
## 1.687285 1.849836 1.442708 1.598712 1.961095 2.009241 1.240073 2.138748   
## 6209 6210 6211 6212 6213 6214 6215 6216   
## 1.895635 1.943010 1.497615 1.854637 1.893417 1.782093 1.463100 1.858147   
## 6217 6218 6219 6220 6221 6222 6223 6224   
## 2.033224 2.021228 1.661944 2.150055 2.030219 1.827058 1.349285 1.255481   
## 6225 6226 6227 6228 6229 6230 6231 6232   
## 1.809261 1.968815 1.653796 1.425930 1.455396 1.654574 1.828331 1.266745   
## 6233 6234 6235 6236 6237 6238 6239 6240   
## 1.621049 2.073919 2.048845 1.556030 1.872494 1.982752 1.747173 1.943278   
## 6241 6242 6243 6244 6245 6246 6247 6248   
## 1.409847 1.901525 1.840817 1.781029 1.677601 1.884802 1.826156 1.544868   
## 6249 6250 6251 6252 6253 6254 6255 6256   
## 1.384090 1.758656 2.049064 1.787789 2.105452 1.750436 1.716431 1.794588   
## 6257 6258 6259 6260 6261 6262 6263 6264   
## 1.589911 1.524674 1.400008 1.922623 1.740970 1.986352 1.542434 1.994236   
## 6265 6266 6267 6268 6269 6270 6271 6272   
## 1.351169 1.662097 2.147939 1.923051 1.808946 1.873802 1.698129 1.814956   
## 6273 6274 6275 6276 6277 6278 6279 6280   
## 1.860881 1.943489 1.373304 1.390725 1.773533 1.847946 1.449125 1.372828   
## 6281 6282 6283 6284 6285 6286 6287 6288   
## 2.004225 1.788950 2.054846 1.607471 1.974714 1.811437 2.065907 1.705654   
## 6289 6290 6291 6292 6293 6294 6295 6296   
## 1.960744 1.667988 1.876928 2.000169 1.857049 1.411549 1.955789 1.423430   
## 6297 6298 6299 6300 6301 6302 6303 6304   
## 1.472065 1.953750 1.911542 1.453716 2.054461 1.848916 1.588111 1.841465   
## 6305 6306 6307 6308 6309 6310 6311 6312   
## 1.295311 1.367182 1.973689 2.039561 1.369979 1.870478 1.687126 1.816683   
## 6313 6314 6315 6316 6317 6318 6319 6320   
## 1.911157 1.368033 1.614508 1.515120 1.616021 1.872309 1.640287 2.141385   
## 6321 6322 6323 6324 6325 6326 6327 6328   
## 1.794490 1.465673 1.960292 1.967363 1.698789 1.887057 1.605575 1.670582   
## 6329 6330 6331 6332 6333 6334 6335 6336   
## 1.748740 1.757025 1.672671 1.482117 1.363176 1.596281 1.950062 1.512019   
## 6337 6338 6339 6340 6341 6342 6343 6344   
## 1.506379 1.641271 1.506352 1.547998 2.024666 1.788625 1.725882 1.620546   
## 6345 6346 6347 6348 6349 6350 6351 6352   
## 1.758241 1.986963 1.980021 1.464975 1.917388 2.135850 1.861694 1.752703   
## 6353 6354 6355 6356 6357 6358 6359 6360   
## 1.709441 1.338877 1.502299 1.901082 1.209750 2.034818 2.076095 1.193730   
## 6361 6362 6363 6364 6365 6366 6367 6368   
## 1.929855 1.593103 1.911577 1.945316 1.628515 2.052225 1.432375 2.095294   
## 6369 6370 6371 6372 6373 6374 6375 6376   
## 1.575574 1.552929 1.425837 1.649200 1.836441 2.002364 1.909699 1.869179   
## 6377 6378 6379 6380 6381 6382 6383 6384   
## 1.278716 2.096995 1.855810 1.802281 2.082448 1.922490 1.786377 1.743896   
## 6385 6386 6387 6388 6389 6390 6391 6392   
## 1.547049 1.879857 1.653272 1.469248 1.927641 1.881418 1.656640 2.099775   
## 6393 6394 6395 6396 6397 6398 6399 6400   
## 1.729962 1.938915 2.019580 1.812165 1.691875 1.613500 1.685180 1.869619   
## 6401 6402 6403 6404 6405 6406 6407 6408   
## 1.939428 2.020552 1.407808 2.066185 1.518127 1.987292 1.840049 2.030500   
## 6409 6410 6411 6412 6413 6414 6415 6416   
## 1.639050 1.699469 1.783821 1.630701 1.912642 1.989037 2.084763 1.879309   
## 6417 6418 6419 6420 6421 6422 6423 6424   
## 1.903288 1.929813 2.001240 1.424983 2.099490 1.870705 1.944712 1.875538   
## 6425 6426 6427 6428 6429 6430 6431 6432   
## 2.081122 1.601448 1.950788 2.151606 1.880310 1.299372 1.654495 1.440472   
## 6433 6434 6435 6436 6437 6438 6439 6440   
## 1.805134 2.019787 1.852598 1.743116 1.407357 1.861291 2.036244 1.748148   
## 6441 6442 6443 6444 6445 6446 6447 6448   
## 1.812552 1.984794 1.878989 1.458088 1.507003 1.621559 1.686447 1.827245   
## 6449 6450 6451 6452 6453 6454 6455 6456   
## 1.759687 1.704218 1.701275 1.704860 1.669027 1.359352 1.938164 1.777040   
## 6457 6458 6459 6460 6461 6462 6463 6464   
## 2.071328 1.490376 1.446925 1.747414 1.999858 1.696403 1.942605 1.889376   
## 6465 6466 6467 6468 6469 6470 6471 6472   
## 1.345512 1.907978 1.715158 2.070932 1.884083 1.827973 1.547422 1.789178   
## 6473 6474 6475 6476 6477 6478 6479 6480   
## 1.501108 1.224247 1.436509 1.842546 1.808719 1.641067 1.852518 1.404470   
## 6481 6482 6483 6484 6485 6486 6487 6488   
## 1.767435 1.924585 1.406700 1.957480 1.676967 1.664260 1.407305 1.540879   
## 6489 6490 6491 6492 6493 6494 6495 6496   
## 1.626135 1.407071 1.806975 1.869429 1.759383 1.979435 1.968384 1.416915   
## 6497 6498 6499 6500 6501 6502 6503 6504   
## 2.071016 1.359525 1.777806 1.535050 1.562816 1.860505 2.037309 1.721847   
## 6505 6506 6507 6508 6509 6510 6511 6512   
## 1.706699 2.030583 1.650411 1.687184 1.637156 1.648446 1.758296 1.351047   
## 6513 6514 6515 6516 6517 6518 6519 6520   
## 1.901992 1.888778 1.829514 1.361283 2.063723 1.701352 1.658220 2.120132   
## 6521 6522 6523 6524 6525 6526 6527 6528   
## 1.294115 1.944279 1.745959 1.865321 1.441564 1.794657 1.593706 1.611693   
## 6529 6530 6531 6532 6533 6534 6535 6536   
## 1.980094 1.471561 1.708070 1.867448 1.960751 1.407908 2.057223 1.504242   
## 6537 6538 6539 6540 6541 6542 6543 6544   
## 1.602982 1.748007 1.925335 1.862965 1.529068 1.425186 1.753544 1.315851   
## 6545 6546 6547 6548 6549 6550 6551 6552   
## 1.929114 1.461111 1.903377 1.906131 1.465313 1.871844 1.734887 1.937336   
## 6553 6554 6555 6556 6557 6558 6559 6560   
## 1.464502 1.279078 1.460528 1.835074 1.717658 1.999202 1.386113 1.936635   
## 6561 6562 6563 6564 6565 6566 6567 6568   
## 1.935834 1.622719 1.904637 2.078752 1.893520 1.289283 1.742790 1.805784   
## 6569 6570 6571 6572 6573 6574 6575 6576   
## 2.112463 1.776004 2.114545 1.880260 1.859983 1.910454 1.858876 2.061057   
## 6577 6578 6579 6580 6581 6582 6583 6584   
## 1.981970 1.954410 1.719082 1.929948 2.049137 1.394432 1.419038 1.820944   
## 6585 6586 6587 6588 6589 6590 6591 6592   
## 1.769410 1.802586 2.080083 2.090604 1.569041 2.077135 1.441226 1.704092   
## 6593 6594 6595 6596 6597 6598 6599 6600   
## 1.925595 1.590843 1.602680 1.630282 1.841331 1.549972 1.586379 1.818075   
## 6601 6602 6603 6604 6605 6606 6607 6608   
## 1.758141 1.362554 1.876382 1.419810 1.807849 2.118546 1.677996 1.538075   
## 6609 6610 6611 6612 6613 6614 6615 6616   
## 1.837498 1.565236 1.852278 1.340712 2.057154 1.537952 1.284129 1.989072   
## 6617 6618 6619 6620 6621 6622 6623 6624   
## 1.313507 1.270386 2.005547 1.384552 1.979893 1.389977 1.707988 1.901056   
## 6625 6626 6627 6628 6629 6630 6631 6632   
## 1.344818 1.366388 1.914708 1.712299 2.040363 2.039968 1.809233 1.838435   
## 6633 6634 6635 6636 6637 6638 6639 6640   
## 1.711539 1.748117 1.397971 1.665179 1.807209 2.013140 2.089543 1.878912   
## 6641 6642 6643 6644 6645 6646 6647 6648   
## 1.862665 1.817511 1.826101 1.964263 1.644317 1.307188 2.023635 2.006435   
## 6649 6650 6651 6652 6653 6654 6655 6656   
## 1.992502 1.452010 2.146147 1.409308 2.008186 1.960840 1.542214 1.564096   
## 6657 6658 6659 6660 6661 6662 6663 6664   
## 1.801148 1.666742 1.392813 1.559831 1.473367 1.840275 1.977864 1.608200   
## 6665 6666 6667 6668 6669 6670 6671 6672   
## 1.778512 1.767691 1.663958 1.673131 1.981273 2.071495 1.834315 1.299054   
## 6673 6674 6675 6676 6677 6678 6679 6680   
## 1.901156 1.834568 1.757287 1.791682 1.917813 1.356854 1.963213 1.847937   
## 6681 6682 6683 6684 6685 6686 6687 6688   
## 1.714835 1.938941 1.834721 1.568508 1.759215 2.196230 1.376831 1.706955   
## 6689 6690 6691 6692 6693 6694 6695 6696   
## 1.715721 1.978233 1.848760 1.626608 1.526877 1.447839 1.721827 1.766261   
## 6697 6698 6699 6700 6701 6702 6703 6704   
## 1.805999 1.957473 1.370887 1.720598 2.019053 1.607901 1.581306 1.697750   
## 6705 6706 6707 6708 6709 6710 6711 6712   
## 1.413368 1.358500 1.365212 1.615293 1.397860 2.057721 2.040219 1.953377   
## 6713 6714 6715 6716 6717 6718 6719 6720   
## 1.743793 2.038966 2.043737 1.931753 1.401389 1.487317 2.037932 2.049505   
## 6721 6722 6723 6724 6725 6726 6727 6728   
## 1.916450 1.929181 1.492831 1.808563 1.766526 2.204436 2.043396 1.862812   
## 6729 6730 6731 6732 6733 6734 6735 6736   
## 1.806604 1.550108 1.665961 1.351769 2.016568 1.740062 1.939913 1.646465   
## 6737 6738 6739 6740 6741 6742 6743 6744   
## 1.738320 1.885169 1.297381 2.126424 1.817265 2.034964 1.790896 1.977982   
## 6745 6746 6747 6748 6749 6750 6751 6752   
## 1.637129 1.386466 1.884897 1.845401 1.692213 1.694945 1.759628 1.744359   
## 6753 6754 6755 6756 6757 6758 6759 6760   
## 1.987393 1.406700 2.021360 1.912818 2.008739 2.068628 2.036732 1.382970   
## 6761 6762 6763 6764 6765 6766 6767 6768   
## 1.869635 1.838428 1.432398 1.807858 1.821798 1.985725 1.625828 2.065438   
## 6769 6770 6771 6772 6773 6774 6775 6776   
## 1.822899 1.736722 1.492660 1.698785 1.894885 1.824299 1.877122 1.759736   
## 6777 6778 6779 6780 6781 6782 6783 6784   
## 1.578868 1.890151 1.753447 2.001887 1.581452 1.960919 1.950966 2.012908   
## 6785 6786 6787 6788 6789 6790 6791 6792   
## 1.759765 1.651588 1.536844 1.454235 1.883738 1.576918 1.536873 1.485403   
## 6793 6794 6795 6796 6797 6798 6799 6800   
## 1.796605 1.441982 1.785675 2.000607 1.892166 1.686502 1.361025 1.667082   
## 6801 6802 6803 6804 6805 6806 6807 6808   
## 1.450381 1.754345 2.033573 1.690885 2.228300 1.402472 2.057386 1.797296   
## 6809 6810 6811 6812 6813 6814 6815 6816   
## 1.619567 1.776856 1.413853 1.476797 1.676771 1.689410 1.497283 1.777597   
## 6817 6818 6819 6820 6821 6822 6823 6824   
## 1.987230 1.941251 1.952733 1.934373 1.311317 2.051772 1.385133 1.660703   
## 6825 6826 6827 6828 6829 6830 6831 6832   
## 1.781813 1.350271 1.330026 1.367740 1.295557 1.787978 1.714326 1.834436   
## 6833 6834 6835 6836 6837 6838 6839 6840   
## 1.523455 1.645303 1.536083 1.341447 1.678918 1.555992 1.645133 2.171573   
## 6841 6842 6843 6844 6845 6846 6847 6848   
## 1.717061 1.899832 1.741922 1.811541 1.933260 2.040325 1.712133 1.475015   
## 6849 6850 6851 6852 6853 6854 6855 6856   
## 2.040145 1.527043 1.434135 1.265997 1.928962 1.564792 1.808285 1.226871   
## 6857 6858 6859 6860 6861 6862 6863 6864   
## 2.096153 1.355907 1.940707 1.632934 1.715814 1.870425 2.113542 1.773687   
## 6865 6866 6867 6868 6869 6870 6871 6872   
## 2.076048 1.886087 1.468926 1.323073 1.513207 2.085608 1.759254 1.899783   
## 6873 6874 6875 6876 6877 6878 6879 6880   
## 1.641359 1.510549 1.445797 1.268129 1.980284 1.372504 1.412881 1.839652   
## 6881 6882 6883 6884 6885 6886 6887 6888   
## 1.630576 1.759148 1.767256 1.210289 1.937446 1.646722 1.933160 1.508337   
## 6889 6890 6891 6892 6893 6894 6895 6896   
## 1.615232 1.643396 1.712412 1.976699 1.786401 1.782334 1.591547 1.931483   
## 6897 6898 6899 6900 6901 6902 6903 6904   
## 1.676798 1.649010 1.670487 1.993734 2.034559 1.334527 1.891472 1.510341   
## 6905 6906 6907 6908 6909 6910 6911 6912   
## 1.799177 2.058996 1.948581 1.673141 1.690827 2.005464 1.688240 1.496480   
## 6913 6914 6915 6916 6917 6918 6919 6920   
## 1.951954 1.409535 1.896973 1.728266 1.773577 1.903812 1.908033 1.356768   
## 6921 6922 6923 6924 6925 6926 6927 6928   
## 1.864444 1.583137 1.407676 1.895694 1.891586 1.407213 1.700905 2.009210   
## 6929 6930 6931 6932 6933 6934 6935 6936   
## 1.725865 2.114009 1.964367 1.993545 1.699389 1.770688 1.900975 1.789723   
## 6937 6938 6939 6940 6941 6942 6943 6944   
## 1.771510 1.769628 1.782595 1.685640 1.993233 1.585919 1.329473 1.798847   
## 6945 6946 6947 6948 6949 6950 6951 6952   
## 1.639235 2.050839 1.493282 1.919836 1.558075 1.519134 1.469400 1.464793   
## 6953 6954 6955 6956 6957 6958 6959 6960   
## 1.356058 1.780822 1.837169 1.871832 1.409782 1.430057 1.805488 1.364806   
## 6961 6962 6963 6964 6965 6966 6967 6968   
## 1.416140 1.702152 1.755833 1.615627 1.893232 2.014458 1.712467 2.168399   
## 6969 6970 6971 6972 6973 6974 6975 6976   
## 1.637069 1.534363 1.647430 2.170494 1.696819 1.736629 1.879995 1.560184   
## 6977 6978 6979 6980 6981 6982 6983 6984   
## 1.553173 1.706614 1.709798 1.580936 1.334455 1.856192 1.569332 1.908360   
## 6985 6986 6987 6988 6989 6990 6991 6992   
## 2.063141 1.886823 1.557533 1.407343 1.633443 2.030948 1.619403 1.848911   
## 6993 6994 6995 6996 6997 6998 6999 7000   
## 1.762797 1.565764 1.932171 1.534199 2.004911 1.311136 1.474402 1.293335   
## 7001 7002 7003 7004 7005 7006 7007 7008   
## 1.729937 1.999070 1.590333 1.564067 1.506970 1.665706 2.045058 1.414233   
## 7009 7010 7011 7012 7013 7014 7015 7016   
## 1.995160 1.824648 1.696363 1.801091 1.643126 1.667171 1.469167 1.649988   
## 7017 7018 7019 7020 7021 7022 7023 7024   
## 1.678968 2.103267 1.419965 1.757233 1.921761 1.289334 1.610627 1.809769   
## 7025 7026 7027 7028 7029 7030 7031 7032   
## 1.476730 1.666917 2.046856 1.736280 1.830835 1.673316 1.306902 1.958708

residuals(fit)

## 1 2 3 4 5   
## 4.212205e-01 1.195841e-01 -6.784100e-01 6.221027e-02 -4.014162e-01   
## 6 7 8 9 10   
## -2.827473e-01 5.231914e-01 3.114542e-01 -4.839328e-01 -7.725445e-02   
## 11 12 13 14 15   
## 2.827325e-01 4.070819e-02 2.837956e-01 -6.148475e-01 4.254464e-01   
## 16 17 18 19 20   
## -5.528752e-02 1.936205e-02 5.385749e-02 -7.751256e-01 5.088968e-01   
## 21 22 23 24 25   
## -4.639526e-01 9.691352e-02 -8.080907e-01 2.274791e-02 -4.318281e-02   
## 26 27 28 29 30   
## 1.923469e-01 -5.937580e-01 -6.543384e-01 -9.302690e-02 -5.799656e-01   
## 31 32 33 34 35   
## 3.146974e-02 7.469439e-01 3.430424e-02 1.688491e-01 3.857017e-01   
## 36 37 38 39 40   
## -7.646371e-02 -4.264421e-01 3.298016e-01 -4.772256e-01 -3.316295e-01   
## 41 42 43 44 45   
## 2.330650e-01 -3.872043e-02 8.794888e-02 -5.916353e-02 3.353532e-01   
## 46 47 48 49 50   
## 4.347987e-01 3.288002e-01 -3.440918e-01 6.937739e-02 -1.041531e-01   
## 51 52 53 54 55   
## 4.845371e-01 -4.654573e-01 3.232440e-01 -3.511893e-01 -2.107078e-02   
## 56 57 58 59 60   
## -2.910501e-01 2.185171e-01 1.947023e-01 3.030626e-02 1.184528e-01   
## 61 62 63 64 65   
## 4.586655e-01 3.002228e-01 -4.680935e-02 1.908081e-01 -3.339682e-01   
## 66 67 68 69 70   
## 4.344628e-01 3.250105e-01 1.299734e-01 -6.464684e-02 4.860543e-01   
## 71 72 73 74 75   
## 2.945761e-01 3.432107e-02 1.264565e-01 -1.079414e-02 2.994959e-01   
## 76 77 78 79 80   
## 2.524139e-01 1.537344e-01 2.295990e-01 3.358404e-01 9.538227e-02   
## 81 82 83 84 85   
## -3.726814e-01 3.880094e-01 -4.502573e-01 3.231485e-01 9.042911e-03   
## 86 87 88 89 90   
## 6.823099e-01 1.969436e-01 -6.407877e-02 1.451483e-02 3.445073e-01   
## 91 92 93 94 95   
## 3.215232e-01 5.373907e-01 -4.831352e-02 2.264885e-01 1.145998e-01   
## 96 97 98 99 100   
## -4.655069e-01 -8.787121e-02 -8.129129e-01 -5.254209e-02 -4.339929e-01   
## 101 102 103 104 105   
## 1.922811e-01 1.606697e-01 2.988713e-01 1.564102e-01 -9.094287e-01   
## 106 107 108 109 110   
## 3.769246e-01 1.377804e-01 2.023695e-01 4.110518e-01 -1.256871e-01   
## 111 112 113 114 115   
## -7.031970e-01 -6.715160e-02 3.744425e-01 -4.830281e-01 8.914369e-02   
## 116 117 118 119 120   
## 4.940873e-01 1.258986e-01 -3.658337e-01 4.755765e-03 4.017391e-01   
## 121 122 123 124 125   
## 3.219929e-01 1.867968e-01 -3.609004e-01 2.643169e-01 1.716809e-01   
## 126 127 128 129 130   
## 2.431693e-01 -4.604158e-01 -2.441850e-02 1.889352e-01 1.745813e-01   
## 131 132 133 134 135   
## 6.453807e-01 -6.789968e-01 -8.015135e-02 -5.033330e-01 -6.590969e-01   
## 136 137 138 139 140   
## 7.810484e-02 4.042998e-01 -8.228119e-02 -2.482537e-02 -3.377407e-01   
## 141 142 143 144 145   
## -8.220688e-02 -6.674382e-01 2.588658e-01 1.511536e-01 -2.159794e-02   
## 146 147 148 149 150   
## 3.028289e-02 1.395241e-01 -5.955214e-01 1.592653e-01 2.853305e-01   
## 151 152 153 154 155   
## 3.925661e-01 -3.118144e-01 8.879088e-02 -1.364348e-01 1.570963e-01   
## 156 157 158 159 160   
## 5.488775e-01 5.685435e-01 7.103511e-02 1.667313e-01 1.198671e-01   
## 161 162 163 164 165   
## 2.574994e-01 -5.361363e-01 5.919486e-01 4.071304e-02 1.064347e-01   
## 166 167 168 169 170   
## -7.741212e-02 -4.251782e-01 -1.038671e-01 -7.065500e-01 1.269896e-01   
## 171 172 173 174 175   
## 1.691617e-01 -2.981633e-01 2.449552e-01 -6.897525e-01 4.780082e-02   
## 176 177 178 179 180   
## 1.516017e-01 -3.661907e-01 -4.921739e-01 6.163542e-01 2.412274e-02   
## 181 182 183 184 185   
## -6.456935e-01 3.633155e-01 -3.983476e-01 1.536691e-01 -5.033340e-01   
## 186 187 188 189 190   
## -5.605431e-01 3.200309e-01 3.264026e-01 1.097673e-01 2.144447e-01   
## 191 192 193 194 195   
## 1.179474e-01 -3.921005e-01 -1.225246e-01 -6.351538e-03 -9.580144e-02   
## 196 197 198 199 200   
## 4.156199e-01 9.516638e-02 2.717906e-01 5.456356e-02 1.724815e-01   
## 201 202 203 204 205   
## 3.924549e-01 4.424509e-01 6.137915e-02 5.381391e-01 3.068416e-01   
## 206 207 208 209 210   
## 2.778161e-01 -8.462521e-02 -3.977257e-01 -5.133851e-01 1.184623e-01   
## 211 212 213 214 215   
## -6.044005e-01 3.907666e-01 -7.833252e-02 4.809013e-02 5.931910e-01   
## 216 217 218 219 220   
## 1.843477e-01 -1.411816e-01 -3.092821e-02 -1.277837e-02 6.004786e-01   
## 221 222 223 224 225   
## -4.149313e-01 -6.597707e-02 1.698379e-01 -7.080011e-01 1.452166e-01   
## 226 227 228 229 230   
## 3.626987e-01 1.773754e-01 -5.789211e-01 4.639491e-01 5.103196e-02   
## 231 232 233 234 235   
## 1.516258e-01 1.828796e-01 -3.960425e-01 -1.037435e-01 1.656916e-01   
## 236 237 238 239 240   
## -5.607302e-01 2.739650e-01 5.505596e-01 -3.242492e-01 6.451731e-02   
## 241 242 243 244 245   
## -8.387476e-02 1.203962e-02 1.054401e-01 1.570485e-01 3.736730e-01   
## 246 247 248 249 250   
## 5.282130e-01 2.324144e-01 -4.528885e-01 -6.575435e-01 2.989178e-01   
## 251 252 253 254 255   
## 2.079577e-01 -4.759257e-01 -5.235165e-01 1.767344e-01 2.159375e-01   
## 256 257 258 259 260   
## 4.395252e-02 1.791151e-02 1.547702e-01 -6.090131e-01 3.818438e-01   
## 261 262 263 264 265   
## -4.608687e-01 -2.746057e-01 4.008091e-01 1.402068e-01 2.158756e-01   
## 266 267 268 269 270   
## -1.016776e-01 -2.072662e-03 5.150203e-01 -1.052810e+00 -6.205417e-03   
## 271 272 273 274 275   
## -3.938812e-01 -8.386235e-02 -6.321509e-01 5.736595e-01 -4.427523e-01   
## 276 277 278 279 280   
## -4.375218e-01 -6.189618e-01 3.211648e-01 4.308789e-01 3.063695e-01   
## 281 282 283 284 285   
## 2.671230e-01 3.053448e-01 2.334809e-01 6.191920e-02 -4.740042e-01   
## 286 287 288 289 290   
## 4.921011e-01 3.211840e-01 -4.533097e-01 -4.161786e-01 -6.445982e-01   
## 291 292 293 294 295   
## -4.100530e-01 8.712268e-02 2.893996e-01 7.262290e-01 1.636751e-01   
## 296 297 298 299 300   
## 1.926528e-01 4.921423e-02 5.929700e-01 3.260888e-01 -4.814583e-01   
## 301 302 303 304 305   
## 3.436183e-01 -1.933797e-01 5.771887e-01 -1.050584e-02 4.135175e-01   
## 306 307 308 309 310   
## -6.671144e-03 -4.613254e-01 1.585887e-01 4.867918e-01 1.658944e-01   
## 311 312 313 314 315   
## 2.160577e-01 4.122298e-01 1.793189e-01 6.254635e-01 -3.675017e-01   
## 316 317 318 319 320   
## 1.461337e-01 -4.734799e-02 -9.470274e-01 -4.058597e-01 4.414330e-01   
## 321 322 323 324 325   
## -9.376593e-01 3.064563e-02 3.981586e-01 1.987345e-01 -6.232062e-03   
## 326 327 328 329 330   
## 3.301547e-01 5.787366e-01 -3.532439e-01 4.368378e-01 6.174439e-01   
## 331 332 333 334 335   
## 4.193683e-02 1.772064e-01 3.374003e-01 -3.823635e-01 -3.895333e-01   
## 336 337 338 339 340   
## -1.018779e+00 -6.497186e-01 -8.055056e-02 4.477481e-01 -7.043652e-01   
## 341 342 343 344 345   
## 1.671595e-01 -1.638707e-01 2.703965e-02 -1.996391e-02 5.380622e-02   
## 346 347 348 349 350   
## 6.874775e-01 -2.886492e-01 -9.883570e-02 4.675036e-01 1.040104e-01   
## 351 352 353 354 355   
## 3.774569e-02 2.276826e-01 7.227152e-01 -4.276519e-01 -5.688047e-01   
## 356 357 358 359 360   
## -4.112191e-01 3.840872e-01 1.601534e-01 -7.033441e-01 3.069954e-01   
## 361 362 363 364 365   
## 1.583927e-01 2.628932e-01 5.581660e-02 3.854141e-02 4.351924e-01   
## 366 367 368 369 370   
## -3.766866e-01 2.825915e-01 1.884244e-01 2.332146e-01 -3.080177e-02   
## 371 372 373 374 375   
## 4.195636e-02 -2.900660e-01 9.943899e-02 1.859097e-01 4.476516e-01   
## 376 377 378 379 380   
## 1.433257e-01 3.953704e-01 -4.685674e-01 -6.441759e-02 4.191848e-01   
## 381 382 383 384 385   
## 2.370434e-01 -6.566407e-01 -1.849514e-02 -3.071079e-01 3.326004e-01   
## 386 387 388 389 390   
## -7.845817e-01 -6.478837e-01 1.319638e-01 4.411368e-01 3.179996e-01   
## 391 392 393 394 395   
## 5.895305e-01 3.711547e-01 4.445243e-01 1.458102e-01 5.578643e-01   
## 396 397 398 399 400   
## -6.133130e-02 4.514505e-01 -6.172160e-01 3.927323e-01 7.280820e-02   
## 401 402 403 404 405   
## 4.338537e-02 1.086734e-01 -7.408682e-01 -1.152076e-01 1.007629e-01   
## 406 407 408 409 410   
## -5.565889e-02 1.801399e-01 5.241944e-01 -7.556774e-01 -7.618583e-01   
## 411 412 413 414 415   
## -3.147245e-01 1.067179e-01 5.058805e-01 2.453748e-01 3.815763e-01   
## 416 417 418 419 420   
## 3.962277e-01 5.916297e-02 7.831100e-02 -5.729460e-01 -3.688140e-01   
## 421 422 423 424 425   
## 2.650398e-01 5.493744e-01 3.250442e-01 6.240530e-02 2.646001e-01   
## 426 427 428 429 430   
## 2.265495e-01 3.820669e-01 5.964046e-01 5.469534e-01 -8.170916e-02   
## 431 432 433 434 435   
## -9.424288e-01 -5.657744e-02 2.736716e-01 -6.559691e-01 3.496290e-02   
## 436 437 438 439 440   
## 3.228888e-01 3.771061e-02 -3.763178e-02 4.264095e-01 2.971997e-01   
## 441 442 443 444 445   
## 5.421770e-01 3.852467e-01 2.085351e-01 3.058026e-01 4.050018e-01   
## 446 447 448 449 450   
## -6.676845e-01 -4.466089e-01 2.390991e-02 6.351222e-01 -9.590628e-02   
## 451 452 453 454 455   
## 1.993931e-02 2.915724e-01 1.774400e-01 -5.134878e-01 -6.697339e-03   
## 456 457 458 459 460   
## 5.816343e-01 2.428404e-01 1.046462e-01 1.898992e-01 6.556926e-01   
## 461 462 463 464 465   
## 1.517096e-01 3.632688e-01 -3.187504e-01 -2.900691e-01 4.683880e-02   
## 466 467 468 469 470   
## 1.018230e-01 1.649397e-01 1.703256e-01 -3.148620e-02 -6.590498e-01   
## 471 472 473 474 475   
## 1.640539e-01 -5.423124e-01 4.805495e-01 1.348154e-01 -4.437654e-01   
## 476 477 478 479 480   
## -4.926118e-01 2.808086e-01 2.754522e-01 -3.623944e-01 -5.694393e-01   
## 481 482 483 484 485   
## 5.301411e-02 -7.609882e-01 6.040041e-01 9.906610e-02 -4.381515e-01   
## 486 487 488 489 490   
## 1.615581e-01 6.646751e-01 -1.483707e-02 -3.737729e-01 1.813449e-01   
## 491 492 493 494 495   
## 4.298122e-01 -4.627604e-01 1.354019e-01 1.937681e-01 -6.775387e-01   
## 496 497 498 499 500   
## 1.026246e-01 -1.010905e-01 -6.031061e-01 -4.559647e-01 2.938045e-01   
## 501 502 503 504 505   
## 1.612331e-01 -9.940812e-03 1.346299e-01 -1.332582e-01 -3.823196e-01   
## 506 507 508 509 510   
## 5.623480e-01 -3.550694e-01 -4.453084e-01 1.936291e-01 3.395250e-01   
## 511 512 513 514 515   
## 3.001820e-01 -3.142740e-01 2.941799e-01 3.225834e-01 -6.318967e-01   
## 516 517 518 519 520   
## 8.084509e-02 5.824022e-01 -5.568680e-01 1.443885e-01 2.172205e-01   
## 521 522 523 524 525   
## 4.040901e-01 2.983821e-01 -5.266291e-01 -4.633092e-01 1.830836e-01   
## 526 527 528 529 530   
## 2.881207e-02 1.907538e-01 -1.149367e-02 2.024386e-01 6.700114e-02   
## 531 532 533 534 535   
## -1.173109e-01 6.451479e-01 2.138754e-01 -2.830586e-01 6.368641e-01   
## 536 537 538 539 540   
## 2.777334e-01 1.053923e-01 1.931087e-01 -3.030738e-02 -3.722819e-02   
## 541 542 543 544 545   
## 4.764219e-01 1.913985e-01 -3.499027e-01 -6.700442e-01 3.766215e-01   
## 546 547 548 549 550   
## -5.995996e-01 1.904717e-01 2.921210e-01 1.503425e-01 4.511082e-02   
## 551 552 553 554 555   
## -1.705550e-02 -9.448637e-02 1.235971e-01 -5.589434e-01 8.651971e-02   
## 556 557 558 559 560   
## 1.705689e-01 4.865169e-02 4.939696e-01 3.389460e-01 2.722374e-01   
## 561 562 563 564 565   
## 2.853287e-01 3.445427e-01 2.500532e-01 2.951583e-01 -1.373273e-01   
## 566 567 568 569 570   
## 3.947322e-01 -1.563927e-01 -4.637177e-01 2.761360e-01 -3.894889e-02   
## 571 572 573 574 575   
## 6.418718e-02 2.501599e-01 -7.235697e-01 5.475199e-01 -2.434448e-02   
## 576 577 578 579 580   
## 3.396564e-01 5.582882e-01 4.622781e-01 2.358447e-01 -8.644240e-01   
## 581 582 583 584 585   
## -4.952511e-01 -2.632670e-01 2.154562e-01 2.395525e-01 -2.289630e-01   
## 586 587 588 589 590   
## 2.189108e-02 1.165089e-01 4.691169e-02 -1.720890e-01 4.650993e-02   
## 591 592 593 594 595   
## 4.192112e-02 -6.162176e-02 3.340957e-01 3.615957e-01 -7.205911e-01   
## 596 597 598 599 600   
## 1.599955e-01 4.095025e-01 3.299788e-01 -3.490050e-02 4.467383e-01   
## 601 602 603 604 605   
## 1.445286e-01 2.159550e-01 2.212062e-01 3.643128e-01 -1.002670e-01   
## 606 607 608 609 610   
## 2.392087e-02 -5.334676e-05 -8.362417e-02 -7.508282e-01 -6.306329e-01   
## 611 612 613 614 615   
## -8.386087e-01 -9.278869e-02 3.760471e-01 4.622925e-02 3.585400e-01   
## 616 617 618 619 620   
## 4.092478e-01 2.320312e-01 1.544049e-01 5.808139e-01 4.702381e-01   
## 621 622 623 624 625   
## 1.581362e-01 3.479284e-01 5.503626e-02 -8.448400e-01 5.020381e-01   
## 626 627 628 629 630   
## 4.428982e-01 2.415583e-01 9.672129e-02 -6.228299e-01 -5.986656e-01   
## 631 632 633 634 635   
## 1.440699e-01 -1.802498e-01 1.274471e-01 2.042243e-01 -7.317498e-01   
## 636 637 638 639 640   
## 2.880317e-01 -1.681895e-01 -7.099170e-01 -3.384050e-01 -7.269725e-02   
## 641 642 643 644 645   
## -8.005091e-01 -2.932137e-01 3.266431e-01 2.339723e-01 -3.070455e-01   
## 646 647 648 649 650   
## -5.873390e-01 1.314107e-01 -3.109713e-01 4.626381e-01 -4.309832e-01   
## 651 652 653 654 655   
## -4.007270e-01 -6.111241e-03 2.027491e-01 -7.847586e-01 5.926034e-01   
## 656 657 658 659 660   
## -1.084298e-01 6.491046e-02 -8.777837e-01 7.622945e-02 -5.672856e-01   
## 661 662 663 664 665   
## 3.279936e-01 1.911658e-01 6.602518e-03 -9.351029e-02 5.885753e-01   
## 666 667 668 669 670   
## -4.592627e-01 2.621494e-01 -6.466427e-01 -1.289015e-02 1.555597e-02   
## 671 672 673 674 675   
## -2.389503e-02 -3.329181e-01 2.245480e-01 -6.397548e-01 1.455968e-01   
## 676 677 678 679 680   
## 4.494062e-02 -5.080628e-01 7.117833e-01 3.174203e-01 -4.191568e-01   
## 681 682 683 684 685   
## -9.990115e-03 3.243021e-01 4.267623e-01 5.649158e-01 3.473576e-01   
## 686 687 688 689 690   
## 8.342110e-02 -6.138534e-01 1.640848e-01 3.407451e-01 2.444616e-01   
## 691 692 693 694 695   
## 1.424792e-01 -1.594902e-02 -3.616506e-01 1.970237e-01 2.516134e-01   
## 696 697 698 699 700   
## -4.486911e-02 -6.356900e-01 3.218616e-01 -1.244090e-01 5.259420e-02   
## 701 702 703 704 705   
## 4.474483e-01 5.393893e-01 2.468026e-01 3.196748e-01 -6.307914e-01   
## 706 707 708 709 710   
## -1.033546e-01 4.931481e-01 4.263555e-01 3.138039e-01 -8.125518e-01   
## 711 712 713 714 715   
## 4.410446e-01 2.833106e-02 4.629160e-01 -3.678146e-02 3.526931e-01   
## 716 717 718 719 720   
## -1.671811e-02 5.166828e-01 4.385709e-01 2.991493e-01 1.248963e-01   
## 721 722 723 724 725   
## -9.566126e-02 -3.184951e-01 -6.060852e-01 -3.916670e-01 2.793557e-01   
## 726 727 728 729 730   
## 1.128951e-01 6.192243e-01 -6.008032e-01 -1.323619e-02 -6.580642e-01   
## 731 732 733 734 735   
## 1.829388e-01 4.234499e-01 1.220805e-02 4.845896e-01 3.344654e-01   
## 736 737 738 739 740   
## 3.820531e-01 -9.173183e-02 4.282079e-01 -6.672108e-02 4.806321e-02   
## 741 742 743 744 745   
## 5.389530e-01 -4.077542e-01 1.056598e-02 3.738265e-01 1.377518e-01   
## 746 747 748 749 750   
## 2.551063e-02 5.924627e-01 -2.073517e-02 1.449782e-01 2.249566e-01   
## 751 752 753 754 755   
## -7.914855e-02 2.901397e-01 5.303456e-01 -3.178559e-01 -9.334654e-02   
## 756 757 758 759 760   
## 1.883408e-01 -4.789089e-01 -4.444143e-02 1.967422e-01 -4.712069e-01   
## 761 762 763 764 765   
## -4.112861e-01 -1.732364e-01 -9.092380e-02 4.760586e-01 5.215994e-01   
## 766 767 768 769 770   
## 9.253368e-02 3.110248e-01 2.154433e-01 2.008399e-01 -3.359380e-01   
## 771 772 773 774 775   
## -8.059991e-01 -4.260161e-01 -5.357541e-01 7.826786e-02 4.101508e-01   
## 776 777 778 779 780   
## -3.557812e-01 1.394890e-01 -6.520371e-01 -6.794914e-02 3.216191e-01   
## 781 782 783 784 785   
## 1.759973e-01 -6.355413e-01 -6.813602e-03 -6.187474e-01 -8.886135e-02   
## 786 787 788 789 790   
## 1.900011e-01 2.486823e-01 -1.975718e-01 -9.203687e-03 3.474838e-02   
## 791 792 793 794 795   
## 1.179136e-01 -1.216704e-02 4.744087e-01 3.813700e-01 3.331236e-01   
## 796 797 798 799 800   
## 2.063833e-01 1.647591e-01 -7.164551e-01 2.301972e-01 -3.577062e-01   
## 801 802 803 804 805   
## 7.481119e-02 6.069603e-02 -3.932266e-01 6.502958e-02 2.022498e-01   
## 806 807 808 809 810   
## 4.666898e-02 -5.105931e-01 -4.080482e-01 -7.269071e-01 -9.265018e-01   
## 811 812 813 814 815   
## 3.975869e-02 1.507603e-01 2.073285e-01 5.765339e-01 -3.372557e-01   
## 816 817 818 819 820   
## 1.668111e-01 -4.462639e-01 -1.056628e-03 2.804576e-01 2.706235e-02   
## 821 822 823 824 825   
## 3.644683e-01 3.606449e-01 2.753062e-02 -4.960408e-01 -2.280003e-01   
## 826 827 828 829 830   
## 1.965444e-01 -8.561733e-01 2.807508e-01 -8.238497e-01 1.678937e-02   
## 831 832 833 834 835   
## -1.835822e-01 4.372267e-01 -3.184799e-01 2.619761e-01 -1.004860e-01   
## 836 837 838 839 840   
## -6.473266e-01 1.837614e-01 -2.536461e-02 -5.943885e-01 1.163912e-01   
## 841 842 843 844 845   
## -9.244414e-01 3.367739e-01 -2.906114e-01 9.613873e-02 -1.026319e-01   
## 846 847 848 849 850   
## 1.529120e-01 -1.012951e-01 -1.739577e-01 -2.881953e-02 3.311776e-02   
## 851 852 853 854 855   
## 2.457293e-01 3.242046e-01 -8.781009e-02 -7.258641e-01 -1.314241e-01   
## 856 857 858 859 860   
## -6.633361e-01 2.190695e-02 -6.017233e-02 6.632273e-02 6.607199e-02   
## 861 862 863 864 865   
## -4.853287e-01 -3.181298e-01 -3.799266e-01 -4.684068e-01 1.083507e-01   
## 866 867 868 869 870   
## 2.377359e-01 -7.304455e-01 1.934625e-01 1.102588e-02 2.169853e-01   
## 871 872 873 874 875   
## -1.083454e-01 -7.116825e-01 2.787413e-01 4.792715e-01 -5.500170e-01   
## 876 877 878 879 880   
## 6.796592e-02 -5.101094e-02 2.853987e-01 -4.856753e-01 1.102909e-01   
## 881 882 883 884 885   
## -4.358277e-01 1.335367e-01 9.177422e-02 2.414875e-01 6.592722e-01   
## 886 887 888 889 890   
## 5.056957e-01 3.721477e-01 -8.006528e-01 2.708513e-01 -6.366235e-01   
## 891 892 893 894 895   
## 5.172233e-01 -6.140663e-01 2.065687e-01 4.446338e-01 3.635635e-03   
## 896 897 898 899 900   
## 2.425370e-01 -4.908038e-01 2.978103e-01 1.889328e-01 -3.579980e-01   
## 901 902 903 904 905   
## -5.091132e-01 1.910062e-01 -1.050177e-01 -2.369504e-01 4.525756e-01   
## 906 907 908 909 910   
## 2.371933e-01 1.509271e-01 9.347750e-02 -4.361378e-01 5.960740e-01   
## 911 912 913 914 915   
## 1.183603e-01 1.015287e-01 -3.983498e-02 -3.039774e-01 4.644230e-01   
## 916 917 918 919 920   
## -4.473437e-02 5.079842e-01 4.527627e-01 3.948414e-03 1.635277e-01   
## 921 922 923 924 925   
## 5.767950e-01 1.064551e-01 4.136000e-01 7.751985e-02 -3.238903e-01   
## 926 927 928 929 930   
## -4.808571e-01 1.032774e-01 3.723969e-01 4.313679e-01 1.873786e-01   
## 931 932 933 934 935   
## -9.952008e-02 -2.551899e-01 2.448804e-01 7.378629e-01 -4.291744e-01   
## 936 937 938 939 940   
## 1.610697e-01 1.549577e-01 4.744169e-02 3.091702e-01 5.063579e-01   
## 941 942 943 944 945   
## -9.557826e-02 2.805690e-01 -4.221811e-01 2.146706e-01 5.594432e-01   
## 946 947 948 949 950   
## -4.196873e-01 -3.193636e-02 -5.968557e-01 4.992220e-01 1.509067e-01   
## 951 952 953 954 955   
## 1.610547e-01 6.282472e-01 -6.590030e-01 -8.340569e-02 2.885181e-01   
## 956 957 958 959 960   
## 1.902001e-01 4.348616e-01 3.455499e-01 1.573391e-01 3.576552e-01   
## 961 962 963 964 965   
## -5.994977e-03 -5.873390e-01 -4.549902e-01 -8.374743e-01 1.678098e-01   
## 966 967 968 969 970   
## -1.997550e-01 -2.245884e-01 -3.321498e-01 2.957235e-01 -7.486633e-02   
## 971 972 973 974 975   
## -6.698259e-01 7.291787e-03 -9.466363e-01 -4.054459e-01 5.515454e-01   
## 976 977 978 979 980   
## -6.813329e-01 5.954286e-02 1.656745e-01 -2.619683e-02 1.316762e-01   
## 981 982 983 984 985   
## -2.751126e-01 -9.086681e-02 -5.060687e-01 2.845385e-01 1.655032e-01   
## 986 987 988 989 990   
## 9.014572e-02 1.776375e-02 7.084871e-02 -1.968406e-02 7.022711e-02   
## 991 992 993 994 995   
## 1.137972e-01 5.662251e-02 -6.747861e-01 -5.853947e-01 -2.034578e-01   
## 996 997 998 999 1000   
## -1.065477e-01 4.060012e-01 -3.274751e-01 -4.272478e-01 5.614051e-01   
## 1001 1002 1003 1004 1005   
## 8.110424e-03 1.366573e-01 4.393175e-01 -4.451677e-01 -4.631884e-01   
## 1006 1007 1008 1009 1010   
## -5.305468e-01 1.870092e-01 3.452664e-01 -6.355368e-02 5.944091e-01   
## 1011 1012 1013 1014 1015   
## 3.309485e-01 -7.154254e-01 -7.271657e-01 -9.356197e-02 4.673450e-02   
## 1016 1017 1018 1019 1020   
## 4.268284e-01 1.811131e-01 1.088072e-01 8.518953e-02 6.626950e-01   
## 1021 1022 1023 1024 1025   
## 4.432214e-01 4.167815e-01 9.306566e-02 -2.293877e-01 2.437836e-01   
## 1026 1027 1028 1029 1030   
## -4.645393e-01 -4.434939e-01 2.967993e-01 2.639978e-01 -3.069204e-01   
## 1031 1032 1033 1034 1035   
## -3.736221e-02 -1.520678e-01 -2.999556e-02 -1.847737e-03 4.414026e-01   
## 1036 1037 1038 1039 1040   
## 2.949148e-01 -6.938669e-01 -3.771948e-01 1.069434e-01 4.558808e-01   
## 1041 1042 1043 1044 1045   
## -6.143163e-01 1.474670e-01 4.426228e-01 1.467157e-02 3.451815e-01   
## 1046 1047 1048 1049 1050   
## 1.212846e-01 -8.078579e-01 -5.703577e-01 4.190649e-01 2.610045e-01   
## 1051 1052 1053 1054 1055   
## -5.771558e-01 -4.808441e-01 5.878743e-02 -3.666362e-01 -4.463918e-01   
## 1056 1057 1058 1059 1060   
## -3.376580e-01 -4.721211e-01 8.601431e-02 1.502947e-01 1.386129e-01   
## 1061 1062 1063 1064 1065   
## 2.167238e-01 1.537032e-01 -4.983675e-01 -2.217351e-02 3.913621e-01   
## 1066 1067 1068 1069 1070   
## -5.965071e-01 1.636001e-01 -4.741043e-01 -6.337409e-01 2.514671e-01   
## 1071 1072 1073 1074 1075   
## -3.070546e-01 1.989728e-01 2.360545e-01 4.853119e-02 -6.743367e-01   
## 1076 1077 1078 1079 1080   
## 2.602417e-01 5.636079e-01 4.972555e-02 5.015424e-01 -3.459448e-01   
## 1081 1082 1083 1084 1085   
## -2.574901e-02 -4.255997e-01 -3.703297e-01 3.082927e-01 -2.932851e-01   
## 1086 1087 1088 1089 1090   
## 5.694633e-01 1.959499e-01 2.391225e-01 -2.224205e-01 -3.523746e-02   
## 1091 1092 1093 1094 1095   
## 1.400219e-01 6.561796e-01 3.130762e-01 -5.002312e-01 -1.073866e-02   
## 1096 1097 1098 1099 1100   
## 3.773862e-01 2.285994e-01 1.123022e-01 -6.387415e-01 2.568315e-01   
## 1101 1102 1103 1104 1105   
## 8.377374e-02 6.080323e-01 1.619324e-01 -5.626358e-02 -4.942394e-02   
## 1106 1107 1108 1109 1110   
## 2.222723e-01 -1.928265e-02 -4.975110e-01 -7.273321e-02 -5.631479e-01   
## 1111 1112 1113 1114 1115   
## 5.267539e-01 1.269815e-01 1.404026e-01 2.927715e-01 3.406231e-01   
## 1116 1117 1118 1119 1120   
## -6.907507e-02 4.357028e-01 1.000670e-01 -5.717777e-01 1.328451e-01   
## 1121 1122 1123 1124 1125   
## 3.117345e-01 -4.770860e-01 -4.890227e-01 1.097229e-01 1.588085e-01   
## 1126 1127 1128 1129 1130   
## 4.890161e-01 4.379699e-02 -6.174959e-01 -3.274893e-01 1.581446e-01   
## 1131 1132 1133 1134 1135   
## 3.235467e-01 4.398127e-02 -9.417570e-02 -1.071026e-01 3.743357e-01   
## 1136 1137 1138 1139 1140   
## 1.646414e-01 1.938831e-01 2.062813e-01 6.235669e-01 3.164363e-01   
## 1141 1142 1143 1144 1145   
## -5.025895e-01 3.663800e-01 1.440779e-01 5.128355e-01 -2.320968e-01   
## 1146 1147 1148 1149 1150   
## -3.721113e-01 3.293864e-01 1.783832e-01 3.864090e-01 1.040857e-01   
## 1151 1152 1153 1154 1155   
## 3.946188e-02 -8.100063e-02 -3.880116e-02 3.108290e-01 2.536933e-01   
## 1156 1157 1158 1159 1160   
## -2.999234e-01 5.600413e-01 -5.893698e-01 -5.923149e-02 -3.886931e-01   
## 1161 1162 1163 1164 1165   
## -5.616502e-02 6.597823e-02 3.814802e-01 3.138935e-01 1.232375e-01   
## 1166 1167 1168 1169 1170   
## 1.917465e-01 -1.077454e-02 -7.385770e-01 5.726558e-01 -7.678102e-01   
## 1171 1172 1173 1174 1175   
## 3.450621e-01 5.275849e-01 -3.510955e-01 1.275677e-01 -4.388358e-01   
## 1176 1177 1178 1179 1180   
## 4.140285e-01 7.825987e-02 -6.079267e-01 2.251564e-01 2.713318e-01   
## 1181 1182 1183 1184 1185   
## 4.614228e-01 -4.775954e-01 3.208093e-02 2.017707e-01 3.706415e-01   
## 1186 1187 1188 1189 1190   
## 5.833886e-01 3.951463e-01 2.191143e-02 -3.258335e-01 7.089960e-02   
## 1191 1192 1193 1194 1195   
## 2.791848e-01 4.009137e-01 -7.788615e-02 1.829966e-01 3.023550e-02   
## 1196 1197 1198 1199 1200   
## 4.552943e-01 3.907732e-01 3.329635e-01 -7.051435e-01 -6.755165e-03   
## 1201 1202 1203 1204 1205   
## 3.076468e-01 -3.457945e-01 5.905855e-01 3.873603e-01 -3.421006e-01   
## 1206 1207 1208 1209 1210   
## 2.001857e-01 -5.171050e-01 -5.980386e-01 5.584937e-01 -1.210843e-01   
## 1211 1212 1213 1214 1215   
## -4.002841e-01 -3.747984e-01 -7.389301e-02 5.879204e-02 -4.626689e-01   
## 1216 1217 1218 1219 1220   
## 2.300977e-01 3.217836e-01 4.181286e-01 -1.462971e-01 -3.395787e-01   
## 1221 1222 1223 1224 1225   
## -6.083984e-01 -5.646129e-01 -6.804821e-02 2.815464e-01 4.090729e-01   
## 1226 1227 1228 1229 1230   
## -7.818176e-02 3.191525e-01 2.351101e-01 -6.171226e-01 -8.074418e-02   
## 1231 1232 1233 1234 1235   
## 1.363372e-01 2.273946e-01 -3.417489e-01 1.108149e-01 -2.669389e-01   
## 1236 1237 1238 1239 1240   
## 3.930840e-01 1.752496e-01 3.241279e-01 2.605944e-01 -6.484455e-01   
## 1241 1242 1243 1244 1245   
## -8.706048e-01 6.234833e-01 3.665216e-01 3.512826e-01 -4.522709e-01   
## 1246 1247 1248 1249 1250   
## -6.424937e-01 1.659016e-01 -4.637337e-01 1.788940e-01 -3.809611e-01   
## 1251 1252 1253 1254 1255   
## 1.601781e-01 -6.127084e-01 -7.635361e-02 2.936634e-01 -1.997926e-02   
## 1256 1257 1258 1259 1260   
## -6.530728e-01 3.872034e-01 4.847631e-01 3.485056e-01 -6.934374e-01   
## 1261 1262 1263 1264 1265   
## 8.598803e-02 2.198345e-01 6.400778e-01 -5.360280e-03 -7.732700e-01   
## 1266 1267 1268 1269 1270   
## 2.854740e-05 -5.974970e-02 7.617230e-02 1.543727e-01 3.244604e-01   
## 1271 1272 1273 1274 1275   
## 1.638940e-01 -1.236480e-01 1.300488e-03 -6.425807e-02 1.464396e-01   
## 1276 1277 1278 1279 1280   
## 1.188755e-01 4.630720e-02 8.037333e-02 5.059332e-01 1.303170e-01   
## 1281 1282 1283 1284 1285   
## -7.583181e-02 -2.822002e-01 3.505202e-01 4.430818e-01 -6.697649e-02   
## 1286 1287 1288 1289 1290   
## -1.047966e-01 -1.964500e-02 -5.481603e-01 -2.289852e-02 8.154085e-02   
## 1291 1292 1293 1294 1295   
## -6.726338e-01 -4.481641e-02 5.341687e-01 5.894027e-01 2.368881e-01   
## 1296 1297 1298 1299 1300   
## -6.412906e-01 7.802373e-02 -1.569861e-01 5.883962e-02 -1.240123e-01   
## 1301 1302 1303 1304 1305   
## -3.350375e-01 3.091536e-01 -9.868270e-01 1.040529e-01 -3.132275e-01   
## 1306 1307 1308 1309 1310   
## -3.873850e-01 -4.212316e-01 2.253479e-01 9.320801e-02 -6.475993e-01   
## 1311 1312 1313 1314 1315   
## -7.273246e-01 5.191627e-02 2.240763e-01 2.448699e-01 3.730291e-01   
## 1316 1317 1318 1319 1320   
## -7.868626e-01 2.575075e-01 -1.067012e-01 1.991934e-01 -9.840628e-03   
## 1321 1322 1323 1324 1325   
## -8.327591e-01 -3.561881e-01 1.172179e-01 -6.962335e-01 1.917630e-01   
## 1326 1327 1328 1329 1330   
## -1.125557e-01 1.511300e-01 4.481555e-01 -6.786653e-02 1.226618e-01   
## 1331 1332 1333 1334 1335   
## -5.091431e-01 -5.968850e-01 4.417214e-01 3.978448e-03 -8.080907e-01   
## 1336 1337 1338 1339 1340   
## -7.326856e-01 -5.867884e-01 9.114852e-02 2.351991e-02 1.267991e-01   
## 1341 1342 1343 1344 1345   
## 3.270031e-01 -4.129499e-01 1.066886e-01 -4.019092e-01 3.210634e-01   
## 1346 1347 1348 1349 1350   
## -6.705293e-02 1.857768e-01 -8.250612e-02 -7.405346e-03 -4.608943e-01   
## 1351 1352 1353 1354 1355   
## 2.118692e-01 6.102305e-01 3.407367e-01 5.043543e-01 -2.827167e-01   
## 1356 1357 1358 1359 1360   
## -2.577569e-01 -4.435654e-01 -4.169332e-01 -1.395411e-01 -8.525988e-02   
## 1361 1362 1363 1364 1365   
## -7.535420e-01 -3.348876e-01 3.538225e-01 6.649754e-02 2.490906e-01   
## 1366 1367 1368 1369 1370   
## 6.750746e-02 -2.997673e-01 5.057278e-01 1.657897e-01 7.385574e-03   
## 1371 1372 1373 1374 1375   
## 5.818001e-03 -5.463735e-01 -1.895567e-01 1.792849e-01 -6.982980e-02   
## 1376 1377 1378 1379 1380   
## 1.301858e-01 5.532849e-01 5.451738e-02 -5.527457e-01 -5.167177e-01   
## 1381 1382 1383 1384 1385   
## 1.601281e-01 -2.979462e-02 -8.883516e-02 3.595490e-01 -4.772775e-01   
## 1386 1387 1388 1389 1390   
## -1.598000e-01 4.703131e-01 2.620073e-02 1.973468e-01 1.850050e-01   
## 1391 1392 1393 1394 1395   
## -7.053304e-01 -7.056320e-01 6.113910e-01 4.097899e-01 9.040391e-02   
## 1396 1397 1398 1399 1400   
## 1.611931e-01 -2.912901e-01 -5.819522e-01 4.871683e-01 3.567272e-02   
## 1401 1402 1403 1404 1405   
## -3.839870e-01 -1.644916e-02 2.514064e-01 1.633035e-01 4.184976e-01   
## 1406 1407 1408 1409 1410   
## -1.903407e-01 5.376205e-01 -4.391280e-01 -6.460900e-02 3.757511e-01   
## 1411 1412 1413 1414 1415   
## 1.465197e-01 1.252181e-01 3.554416e-01 2.171731e-01 -3.687961e-02   
## 1416 1417 1418 1419 1420   
## 3.516138e-01 -2.961177e-01 -6.788818e-03 -3.212629e-01 1.406896e-03   
## 1421 1422 1423 1424 1425   
## 3.965676e-01 5.495238e-02 3.517761e-01 -5.373571e-01 9.741929e-03   
## 1426 1427 1428 1429 1430   
## 1.270307e-01 1.890681e-01 7.867638e-02 2.892367e-01 -3.502018e-01   
## 1431 1432 1433 1434 1435   
## 2.597524e-01 -2.856796e-01 3.014133e-01 1.980837e-01 -3.800466e-01   
## 1436 1437 1438 1439 1440   
## 9.079353e-02 3.590201e-01 1.900968e-01 3.463445e-01 1.813805e-01   
## 1441 1442 1443 1444 1445   
## 5.793366e-01 4.357798e-01 -4.946815e-01 1.289462e-01 2.048288e-01   
## 1446 1447 1448 1449 1450   
## 1.954682e-01 3.238103e-01 3.139887e-01 4.881157e-01 1.439737e-01   
## 1451 1452 1453 1454 1455   
## 2.481971e-01 -3.426117e-01 3.923121e-01 -8.129272e-01 2.010688e-01   
## 1456 1457 1458 1459 1460   
## -3.904952e-01 4.063169e-01 5.753861e-02 -4.640364e-01 2.666709e-01   
## 1461 1462 1463 1464 1465   
## 4.934083e-01 2.718278e-01 3.542850e-01 1.673744e-01 -5.958097e-01   
## 1466 1467 1468 1469 1470   
## 1.699284e-01 4.558084e-01 -4.422063e-01 -3.984880e-01 3.592375e-01   
## 1471 1472 1473 1474 1475   
## 1.397587e-01 1.901187e-01 -7.947566e-01 -5.425974e-01 3.125452e-01   
## 1476 1477 1478 1479 1480   
## 1.640900e-01 -5.971530e-02 6.940762e-01 -6.027198e-03 1.652025e-01   
## 1481 1482 1483 1484 1485   
## -3.055087e-01 -6.820932e-01 3.279444e-01 3.122100e-01 1.010657e-01   
## 1486 1487 1488 1489 1490   
## 1.456600e-01 1.913985e-01 -3.876861e-01 4.630731e-01 -8.399726e-01   
## 1491 1492 1493 1494 1495   
## 1.984085e-01 2.296762e-01 1.944571e-01 -4.193382e-01 3.201612e-01   
## 1496 1497 1498 1499 1500   
## 3.512625e-01 7.315369e-02 1.525869e-01 4.629356e-01 5.179858e-01   
## 1501 1502 1503 1504 1505   
## -2.971412e-01 7.887050e-02 -5.309267e-02 4.920481e-01 -4.881296e-01   
## 1506 1507 1508 1509 1510   
## -1.645991e-01 -7.246264e-02 6.122779e-01 -4.968712e-01 -9.993652e-02   
## 1511 1512 1513 1514 1515   
## 1.952802e-01 6.034422e-01 3.059763e-01 1.725918e-01 -5.966202e-01   
## 1516 1517 1518 1519 1520   
## 2.386061e-01 3.069832e-02 -7.856042e-01 3.195008e-01 2.249700e-01   
## 1521 1522 1523 1524 1525   
## 1.601783e-01 6.345324e-01 -1.282760e-01 3.866631e-01 -7.552820e-02   
## 1526 1527 1528 1529 1530   
## -4.941320e-01 1.789188e-01 1.358553e-01 -5.243101e-01 -1.175268e-01   
## 1531 1532 1533 1534 1535   
## 2.952250e-01 -1.836078e-01 -2.327115e-02 -3.417824e-01 2.654428e-01   
## 1536 1537 1538 1539 1540   
## 1.907543e-01 -1.116227e-01 3.697109e-02 -4.699134e-01 2.819373e-01   
## 1541 1542 1543 1544 1545   
## 2.062910e-01 -7.170121e-02 -7.265176e-01 3.811155e-01 -5.862237e-01   
## 1546 1547 1548 1549 1550   
## 6.800689e-01 1.034979e-01 1.602630e-01 2.918842e-01 1.298007e-01   
## 1551 1552 1553 1554 1555   
## -7.925518e-01 -4.557443e-01 2.896400e-01 -4.105898e-01 1.943776e-01   
## 1556 1557 1558 1559 1560   
## 9.599824e-02 -3.454227e-01 2.411898e-01 5.752942e-01 -2.341493e-01   
## 1561 1562 1563 1564 1565   
## 2.674979e-01 -2.827330e-02 4.457599e-01 6.791545e-01 2.865708e-01   
## 1566 1567 1568 1569 1570   
## 5.921152e-03 1.672768e-01 -6.041910e-01 2.193541e-01 8.899869e-02   
## 1571 1572 1573 1574 1575   
## -8.186739e-01 7.858847e-03 -5.975455e-01 -6.195340e-01 -3.549460e-01   
## 1576 1577 1578 1579 1580   
## 3.462908e-01 3.043453e-01 6.567731e-02 4.054546e-01 1.817195e-01   
## 1581 1582 1583 1584 1585   
## 1.291574e-01 3.325864e-02 -1.298992e-02 3.667964e-01 4.544753e-01   
## 1586 1587 1588 1589 1590   
## -9.405892e-02 1.376451e-01 -6.291446e-01 1.516534e-01 -5.686412e-02   
## 1591 1592 1593 1594 1595   
## -3.817746e-01 5.993037e-01 2.061343e-01 1.062273e-02 -8.850811e-02   
## 1596 1597 1598 1599 1600   
## -2.518521e-01 3.507730e-01 -4.746511e-01 -6.227853e-01 1.245568e-01   
## 1601 1602 1603 1604 1605   
## -3.283990e-02 2.416565e-02 -4.676598e-01 1.588131e-01 2.514243e-01   
## 1606 1607 1608 1609 1610   
## -1.331848e-01 -9.678046e-02 -8.785566e-01 9.925372e-02 -1.781804e-02   
## 1611 1612 1613 1614 1615   
## 5.367585e-02 -1.478253e-02 2.205972e-01 -4.070028e-01 -9.539672e-02   
## 1616 1617 1618 1619 1620   
## 2.860633e-01 -4.829268e-01 1.507434e-02 2.836566e-01 -6.713413e-01   
## 1621 1622 1623 1624 1625   
## -4.573527e-01 1.872089e-01 5.334866e-01 5.692937e-01 -1.168929e-01   
## 1626 1627 1628 1629 1630   
## 5.160269e-01 -4.594906e-01 -6.325783e-01 3.443520e-01 1.406867e-02   
## 1631 1632 1633 1634 1635   
## 4.593200e-01 4.708091e-02 6.460153e-02 1.098961e-01 -6.142472e-01   
## 1636 1637 1638 1639 1640   
## 1.186881e-01 -1.172059e-01 1.197375e-01 3.645920e-01 -5.329969e-01   
## 1641 1642 1643 1644 1645   
## -4.845286e-01 -5.954452e-02 -4.470510e-01 2.893847e-01 2.306232e-01   
## 1646 1647 1648 1649 1650   
## -3.196215e-01 -3.044612e-01 2.752441e-01 -4.340820e-02 1.169175e-01   
## 1651 1652 1653 1654 1655   
## -6.743194e-01 1.995470e-01 1.950516e-01 -7.157945e-01 -7.704377e-02   
## 1656 1657 1658 1659 1660   
## 1.124995e-01 3.463529e-01 -4.264664e-01 -5.592755e-01 -5.827159e-01   
## 1661 1662 1663 1664 1665   
## 6.288569e-01 9.130888e-02 2.037022e-01 3.122178e-01 6.118144e-01   
## 1666 1667 1668 1669 1670   
## -5.699888e-01 7.039328e-02 -1.992057e-01 -6.828560e-01 8.014584e-02   
## 1671 1672 1673 1674 1675   
## -5.184693e-01 5.883524e-01 1.306771e-01 1.184936e-01 4.137668e-01   
## 1676 1677 1678 1679 1680   
## 6.661264e-02 -5.860871e-02 -1.515237e-02 6.489651e-03 2.578189e-01   
## 1681 1682 1683 1684 1685   
## 5.106297e-01 -7.551655e-01 1.625102e-01 4.258390e-03 3.681084e-01   
## 1686 1687 1688 1689 1690   
## 1.718794e-01 -9.325546e-02 2.528725e-01 -5.624617e-02 -5.062085e-01   
## 1691 1692 1693 1694 1695   
## 1.017902e-01 -2.974276e-01 -1.783756e-01 4.003103e-02 8.981332e-02   
## 1696 1697 1698 1699 1700   
## -3.977160e-02 -7.876674e-01 -4.457352e-01 3.290709e-01 -2.607760e-01   
## 1701 1702 1703 1704 1705   
## 2.377503e-01 6.379870e-02 5.760042e-01 -5.669856e-01 2.523759e-01   
## 1706 1707 1708 1709 1710   
## 5.578079e-01 -4.691405e-03 2.757218e-01 8.451889e-02 -2.758364e-02   
## 1711 1712 1713 1714 1715   
## -4.203491e-02 4.164299e-01 -1.025890e-01 8.525204e-02 6.388891e-01   
## 1716 1717 1718 1719 1720   
## 6.572145e-01 -5.110526e-01 2.578823e-01 7.521288e-02 7.117959e-01   
## 1721 1722 1723 1724 1725   
## 7.126960e-01 2.892255e-01 2.908866e-01 7.720445e-03 7.040652e-02   
## 1726 1727 1728 1729 1730   
## -4.850257e-01 -3.535857e-01 2.739984e-01 1.837305e-01 -4.796649e-01   
## 1731 1732 1733 1734 1735   
## -7.373163e-02 -8.089732e-01 3.835420e-01 1.055877e-01 -4.054459e-01   
## 1736 1737 1738 1739 1740   
## 9.553766e-02 4.044820e-01 -3.688824e-01 -4.153789e-02 2.984707e-01   
## 1741 1742 1743 1744 1745   
## -2.898461e-02 2.219429e-02 -3.353937e-01 -4.928509e-02 3.647920e-01   
## 1746 1747 1748 1749 1750   
## 1.931405e-01 -4.222904e-01 1.218582e-01 2.071828e-02 4.412435e-02   
## 1751 1752 1753 1754 1755   
## 2.747599e-01 1.609580e-01 8.684224e-02 -9.702220e-02 1.339614e-01   
## 1756 1757 1758 1759 1760   
## 1.081434e-01 2.278854e-02 4.366397e-01 4.030521e-01 -8.445954e-02   
## 1761 1762 1763 1764 1765   
## 2.242203e-01 1.114551e-01 2.032077e-02 6.276299e-02 2.047220e-01   
## 1766 1767 1768 1769 1770   
## -5.340283e-01 -3.136476e-01 -4.106917e-01 -6.923556e-02 3.217689e-01   
## 1771 1772 1773 1774 1775   
## 1.430070e-01 3.250795e-02 2.788182e-01 -8.883252e-02 5.860818e-01   
## 1776 1777 1778 1779 1780   
## -9.419480e-01 3.287869e-01 3.996684e-01 -4.163232e-01 -8.106440e-01   
## 1781 1782 1783 1784 1785   
## -9.681932e-02 -7.197887e-01 4.081747e-01 -1.682388e-02 1.997661e-01   
## 1786 1787 1788 1789 1790   
## -4.862378e-01 9.396164e-02 1.774707e-01 -9.200867e-02 -1.360793e-01   
## 1791 1792 1793 1794 1795   
## -4.480068e-01 3.883044e-01 1.151413e-02 8.804310e-02 -3.505311e-01   
## 1796 1797 1798 1799 1800   
## 3.754738e-01 4.920907e-01 1.740490e-01 1.178612e-01 8.602943e-02   
## 1801 1802 1803 1804 1805   
## -1.484492e-01 2.222683e-02 -4.458477e-01 -4.856636e-01 -4.195556e-01   
## 1806 1807 1808 1809 1810   
## -8.966424e-03 5.793817e-01 5.568294e-01 4.578911e-01 5.002322e-02   
## 1811 1812 1813 1814 1815   
## -9.680965e-02 1.848458e-01 1.664553e-01 2.362951e-01 -4.693250e-03   
## 1816 1817 1818 1819 1820   
## 3.448614e-01 -4.686177e-01 -4.899930e-01 -5.398000e-01 -1.287219e-01   
## 1821 1822 1823 1824 1825   
## 2.994258e-01 2.911664e-01 2.767305e-01 8.357582e-02 6.163269e-01   
## 1826 1827 1828 1829 1830   
## -1.948328e-03 2.803279e-01 -6.239777e-01 2.798630e-01 -5.997923e-01   
## 1831 1832 1833 1834 1835   
## 4.053104e-01 -4.814360e-01 -8.322662e-01 4.052895e-01 1.959904e-01   
## 1836 1837 1838 1839 1840   
## -9.894299e-01 4.399698e-02 2.231271e-01 -1.205372e-01 -4.596541e-02   
## 1841 1842 1843 1844 1845   
## 1.177860e-01 9.541944e-02 -7.871326e-02 4.658373e-02 -6.298481e-01   
## 1846 1847 1848 1849 1850   
## 2.058175e-01 -5.036902e-01 -6.495645e-01 -6.456104e-01 -4.925984e-01   
## 1851 1852 1853 1854 1855   
## 1.118262e-02 -7.865541e-01 -1.651018e-01 -5.676612e-01 -6.684435e-01   
## 1856 1857 1858 1859 1860   
## -1.088013e-01 -6.318516e-01 2.551571e-01 1.941830e-01 3.070926e-01   
## 1861 1862 1863 1864 1865   
## 4.317284e-01 1.306700e-01 -4.340041e-01 3.769608e-01 -8.725480e-02   
## 1866 1867 1868 1869 1870   
## 4.115457e-01 2.989598e-01 -4.636349e-02 -1.028689e-01 6.750491e-02   
## 1871 1872 1873 1874 1875   
## 6.402057e-03 4.138934e-01 -1.574233e-01 2.253165e-01 -4.043306e-01   
## 1876 1877 1878 1879 1880   
## -2.853650e-01 3.027653e-01 2.517728e-01 -6.136763e-01 1.041915e-01   
## 1881 1882 1883 1884 1885   
## 1.783132e-01 -1.475560e-01 -4.921339e-01 1.746350e-01 3.907350e-01   
## 1886 1887 1888 1889 1890   
## -7.774839e-01 -5.880312e-01 5.677684e-01 3.362359e-01 3.708047e-01   
## 1891 1892 1893 1894 1895   
## -8.061842e-02 7.942402e-02 -7.048798e-01 -3.729132e-01 5.235645e-01   
## 1896 1897 1898 1899 1900   
## 7.434662e-02 1.143647e-01 -1.180445e-01 7.125968e-01 -7.179169e-01   
## 1901 1902 1903 1904 1905   
## 1.451962e-01 1.325452e-01 3.433876e-01 -9.623246e-02 1.139118e-01   
## 1906 1907 1908 1909 1910   
## 3.883771e-01 -8.522940e-02 4.059729e-02 2.321580e-01 4.022196e-01   
## 1911 1912 1913 1914 1915   
## 2.428479e-01 -6.493664e-01 -9.698516e-02 1.336813e-01 -6.409854e-01   
## 1916 1917 1918 1919 1920   
## 1.641650e-01 -3.169587e-02 3.363332e-01 -3.880982e-02 5.479405e-01   
## 1921 1922 1923 1924 1925   
## 4.123267e-02 -5.863313e-01 -6.475067e-01 -8.638783e-01 6.389720e-01   
## 1926 1927 1928 1929 1930   
## 2.307453e-01 2.692519e-01 1.922811e-01 1.437237e-01 -4.922932e-01   
## 1931 1932 1933 1934 1935   
## 4.328566e-02 -2.128198e-02 5.081352e-02 2.014361e-01 2.250338e-01   
## 1936 1937 1938 1939 1940   
## -9.303643e-02 4.022577e-01 -3.783798e-02 4.499993e-01 -6.489664e-01   
## 1941 1942 1943 1944 1945   
## -1.267649e-01 3.299886e-01 8.171415e-02 -3.932077e-01 2.158426e-02   
## 1946 1947 1948 1949 1950   
## -7.172299e-01 2.860650e-01 4.964108e-01 -4.445972e-01 -3.417051e-01   
## 1951 1952 1953 1954 1955   
## 4.244284e-01 5.670329e-02 1.461986e-01 4.745205e-01 2.736496e-01   
## 1956 1957 1958 1959 1960   
## 2.906042e-01 1.420909e-01 4.496945e-01 4.978240e-01 4.724378e-03   
## 1961 1962 1963 1964 1965   
## -7.722259e-01 3.286066e-01 -1.064139e+00 3.065975e-01 8.494574e-02   
## 1966 1967 1968 1969 1970   
## -3.697898e-01 1.285080e-01 5.196916e-01 -1.133612e-01 -3.993553e-01   
## 1971 1972 1973 1974 1975   
## 4.951702e-02 -1.908573e-01 5.555325e-01 -4.042433e-02 -4.758126e-03   
## 1976 1977 1978 1979 1980   
## 6.283698e-01 -7.093007e-01 1.318651e-01 2.335962e-01 -4.150608e-01   
## 1981 1982 1983 1984 1985   
## -6.829550e-01 6.632325e-02 -5.640417e-01 -7.228591e-01 1.401142e-01   
## 1986 1987 1988 1989 1990   
## -3.267089e-01 1.621647e-01 5.353170e-01 -6.133739e-01 8.895725e-02   
## 1991 1992 1993 1994 1995   
## -3.509834e-01 -1.698766e-01 1.418164e-01 -5.019132e-01 -4.670097e-01   
## 1996 1997 1998 1999 2000   
## 5.476483e-01 1.840868e-01 2.619272e-02 -7.463892e-01 -4.324075e-01   
## 2001 2002 2003 2004 2005   
## -6.801926e-01 -6.280374e-01 -3.520753e-01 -4.200737e-01 -1.544027e-01   
## 2006 2007 2008 2009 2010   
## -3.752839e-01 7.050876e-02 -6.763265e-01 3.341182e-02 1.902292e-01   
## 2011 2012 2013 2014 2015   
## 2.820933e-01 -3.762402e-01 -1.300672e-02 -5.863627e-01 -8.216070e-01   
## 2016 2017 2018 2019 2020   
## 1.295811e-01 -3.715448e-02 5.578915e-01 -3.221779e-01 5.426206e-01   
## 2021 2022 2023 2024 2025   
## -2.102027e-02 1.484498e-01 9.360687e-02 6.657507e-02 -8.835031e-01   
## 2026 2027 2028 2029 2030   
## 2.982107e-01 3.630055e-01 -4.392039e-01 -7.573972e-01 4.965810e-02   
## 2031 2032 2033 2034 2035   
## 1.482559e-01 6.512773e-01 6.616602e-01 -4.616700e-01 -4.892046e-01   
## 2036 2037 2038 2039 2040   
## -1.490251e-01 8.352758e-02 2.257864e-01 5.169390e-01 1.285845e-01   
## 2041 2042 2043 2044 2045   
## 1.029725e-01 3.705989e-01 4.632732e-01 -3.804409e-01 2.109924e-01   
## 2046 2047 2048 2049 2050   
## -6.388364e-02 -1.002010e-01 3.753110e-01 -6.779733e-01 -5.458502e-01   
## 2051 2052 2053 2054 2055   
## 3.106611e-01 2.866009e-01 -6.572279e-01 -1.723367e-01 4.184915e-01   
## 2056 2057 2058 2059 2060   
## -1.547124e-01 -7.124882e-01 9.759723e-03 4.931534e-02 2.387799e-02   
## 2061 2062 2063 2064 2065   
## 4.670540e-01 8.728092e-03 2.723380e-01 2.327719e-01 -3.356750e-01   
## 2066 2067 2068 2069 2070   
## -8.486025e-01 3.683896e-02 -7.217703e-03 1.545849e-01 -6.515629e-01   
## 2071 2072 2073 2074 2075   
## 4.462390e-01 2.397768e-01 -4.410361e-01 2.093113e-01 1.811919e-01   
## 2076 2077 2078 2079 2080   
## 2.382049e-02 4.455037e-01 1.678719e-01 -7.538186e-01 -4.963932e-01   
## 2081 2082 2083 2084 2085   
## -3.867340e-01 -5.092731e-01 -6.540620e-01 2.149368e-01 3.418620e-02   
## 2086 2087 2088 2089 2090   
## 1.990448e-01 -6.061926e-02 -1.769770e-01 1.840439e-01 1.443650e-01   
## 2091 2092 2093 2094 2095   
## -3.482816e-01 -8.182709e-01 6.476809e-01 6.158108e-01 3.655168e-01   
## 2096 2097 2098 2099 2100   
## 1.910868e-01 -6.942593e-01 5.253472e-01 5.922804e-01 -3.274842e-01   
## 2101 2102 2103 2104 2105   
## -4.015524e-01 2.532899e-02 4.700719e-01 1.518268e-01 4.487410e-02   
## 2106 2107 2108 2109 2110   
## 1.826975e-01 7.953705e-03 1.042582e-01 3.217024e-01 9.398543e-02   
## 2111 2112 2113 2114 2115   
## 3.193471e-02 -6.006693e-01 -1.070456e-01 5.124371e-01 3.600405e-02   
## 2116 2117 2118 2119 2120   
## -5.770455e-02 1.941399e-01 4.351718e-01 4.677540e-01 -5.739937e-01   
## 2121 2122 2123 2124 2125   
## 4.227242e-02 3.530452e-01 -8.180490e-01 1.853283e-01 -3.428204e-01   
## 2126 2127 2128 2129 2130   
## -7.348019e-01 2.641836e-02 6.473414e-02 -3.465222e-01 1.958597e-01   
## 2131 2132 2133 2134 2135   
## 3.130679e-01 5.838606e-01 1.392343e-01 -1.126955e-01 5.018630e-01   
## 2136 2137 2138 2139 2140   
## -5.462012e-01 1.201344e-01 1.929053e-01 3.264411e-01 3.472889e-01   
## 2141 2142 2143 2144 2145   
## 4.691725e-01 1.246477e-01 1.299589e-01 1.495266e-01 4.220342e-01   
## 2146 2147 2148 2149 2150   
## 5.871422e-01 -3.275887e-03 4.639910e-01 4.636966e-01 2.009306e-02   
## 2151 2152 2153 2154 2155   
## -4.614695e-01 -3.959816e-01 3.399935e-01 1.165502e-02 1.044807e-01   
## 2156 2157 2158 2159 2160   
## -1.781782e-01 -4.056914e-01 4.645177e-01 -3.917475e-01 -6.110315e-02   
## 2161 2162 2163 2164 2165   
## 1.202227e-01 1.514047e-01 -2.555776e-01 -3.233928e-01 -7.130791e-02   
## 2166 2167 2168 2169 2170   
## 1.525668e-01 4.085298e-01 3.376566e-01 5.894835e-01 8.919606e-02   
## 2171 2172 2173 2174 2175   
## -6.252390e-01 -6.288622e-02 1.088075e-01 -5.307752e-02 1.299546e-01   
## 2176 2177 2178 2179 2180   
## 7.686113e-02 1.266177e-01 1.973047e-01 3.330922e-01 -2.548849e-01   
## 2181 2182 2183 2184 2185   
## -7.743085e-01 -5.202831e-02 7.216971e-03 2.993518e-01 -8.656175e-02   
## 2186 2187 2188 2189 2190   
## -7.420779e-02 -2.261113e-01 -7.748671e-04 2.808426e-02 -3.516274e-01   
## 2191 2192 2193 2194 2195   
## 1.386521e-01 1.251230e-01 7.814748e-02 2.812264e-01 -5.604030e-03   
## 2196 2197 2198 2199 2200   
## 2.539953e-01 7.310925e-02 -3.749372e-01 2.395173e-03 -8.555115e-01   
## 2201 2202 2203 2204 2205   
## 4.696666e-01 -6.423493e-01 -3.737606e-01 -1.732748e-01 1.969799e-01   
## 2206 2207 2208 2209 2210   
## 9.749919e-02 3.292426e-01 1.185173e-01 1.015338e-01 -4.301387e-01   
## 2211 2212 2213 2214 2215   
## -5.493281e-03 2.176631e-01 -1.345831e-01 -1.206084e-01 5.970106e-01   
## 2216 2217 2218 2219 2220   
## -1.310253e-01 -2.492030e-01 4.818337e-01 -4.786205e-01 -4.474185e-01   
## 2221 2222 2223 2224 2225   
## 3.045653e-01 9.906921e-02 1.300398e-02 1.553354e-01 5.337928e-01   
## 2226 2227 2228 2229 2230   
## -3.519408e-02 -4.544907e-01 -3.341309e-02 4.882846e-02 1.256822e-01   
## 2231 2232 2233 2234 2235   
## 1.652329e-01 6.417788e-01 2.976834e-01 6.649075e-01 -7.181051e-02   
## 2236 2237 2238 2239 2240   
## -7.217766e-02 1.397675e-02 5.324835e-02 3.626718e-01 -8.646756e-01   
## 2241 2242 2243 2244 2245   
## 8.271415e-02 -3.264310e-01 -1.642173e-02 2.351089e-01 3.680783e-01   
## 2246 2247 2248 2249 2250   
## 9.898630e-02 4.547733e-01 -6.897839e-02 -1.736203e-01 -5.023844e-03   
## 2251 2252 2253 2254 2255   
## 2.918996e-01 7.773955e-02 7.518112e-02 -7.657288e-03 9.647427e-02   
## 2256 2257 2258 2259 2260   
## -5.289192e-01 2.615421e-01 -3.475594e-01 -5.379072e-01 2.602140e-02   
## 2261 2262 2263 2264 2265   
## -3.636918e-01 2.210141e-01 5.025904e-03 3.335480e-02 -4.365713e-01   
## 2266 2267 2268 2269 2270   
## -2.951738e-01 5.248523e-01 3.698297e-01 5.514832e-02 -5.753181e-01   
## 2271 2272 2273 2274 2275   
## -3.709432e-01 4.091214e-01 -7.765674e-01 3.609432e-01 4.000798e-02   
## 2276 2277 2278 2279 2280   
## 7.080831e-01 -5.656539e-01 -6.757190e-01 -3.853670e-01 2.722890e-01   
## 2281 2282 2283 2284 2285   
## -7.455979e-01 3.984369e-01 -8.577389e-01 6.234102e-01 -1.584792e-02   
## 2286 2287 2288 2289 2290   
## -5.243489e-01 -2.967271e-01 -5.251172e-02 -8.069340e-02 -3.188496e-01   
## 2291 2292 2293 2294 2295   
## -5.636055e-01 4.009513e-01 -7.823005e-01 1.380067e-01 -2.120672e-02   
## 2296 2297 2298 2299 2300   
## -7.192045e-01 6.194399e-01 -1.035303e-01 -6.749198e-01 1.409968e-01   
## 2301 2302 2303 2304 2305   
## 4.694142e-01 5.880468e-01 2.928604e-01 5.992491e-02 2.061756e-01   
## 2306 2307 2308 2309 2310   
## -4.084221e-02 2.879558e-01 1.004787e-01 3.359414e-01 -1.148595e-01   
## 2311 2312 2313 2314 2315   
## 2.355191e-01 1.882565e-01 6.583443e-03 -8.164604e-03 5.771887e-01   
## 2316 2317 2318 2319 2320   
## -6.822008e-02 3.054859e-01 -5.948188e-02 -4.430398e-01 -4.483883e-01   
## 2321 2322 2323 2324 2325   
## 2.064180e-01 7.251335e-02 5.559529e-01 5.395568e-01 1.752955e-01   
## 2326 2327 2328 2329 2330   
## 2.865057e-01 2.001873e-01 1.301035e-01 -3.321406e-02 6.633674e-01   
## 2331 2332 2333 2334 2335   
## 3.363486e-01 -5.016903e-01 -6.319779e-01 -1.272879e-01 -3.125698e-01   
## 2336 2337 2338 2339 2340   
## 1.249296e-01 -2.250643e-02 3.990397e-01 4.135933e-01 1.889453e-01   
## 2341 2342 2343 2344 2345   
## 1.896963e-01 1.164342e-01 1.599925e-01 6.919965e-02 -4.868472e-02   
## 2346 2347 2348 2349 2350   
## 6.839033e-01 -1.114439e-01 1.959873e-01 6.436060e-01 5.746208e-02   
## 2351 2352 2353 2354 2355   
## -1.091201e-01 2.132530e-01 -8.233187e-03 -4.942059e-03 2.311789e-01   
## 2356 2357 2358 2359 2360   
## -9.890449e-02 -6.557406e-01 2.373230e-01 3.977868e-01 5.368857e-01   
## 2361 2362 2363 2364 2365   
## 5.135013e-01 -3.494963e-01 -3.524923e-01 1.024321e-02 9.531811e-03   
## 2366 2367 2368 2369 2370   
## 6.511760e-03 3.021116e-01 -1.609323e-01 -3.969379e-03 1.830401e-01   
## 2371 2372 2373 2374 2375   
## 8.373288e-03 3.529462e-01 9.344259e-02 -5.753240e-01 -4.864839e-01   
## 2376 2377 2378 2379 2380   
## 2.458738e-01 1.167909e-01 1.052963e-01 3.594218e-01 4.595921e-01   
## 2381 2382 2383 2384 2385   
## 3.451370e-01 1.416122e-01 6.685053e-01 4.649838e-01 -9.157132e-02   
## 2386 2387 2388 2389 2390   
## 1.014900e-01 4.792331e-01 5.849126e-01 -5.799337e-01 1.778595e-01   
## 2391 2392 2393 2394 2395   
## 5.327139e-01 3.519592e-01 -3.021361e-01 4.047044e-01 4.864055e-01   
## 2396 2397 2398 2399 2400   
## 3.843972e-01 3.033671e-01 1.515273e-01 -9.896615e-02 2.989556e-01   
## 2401 2402 2403 2404 2405   
## -3.659645e-01 -3.234920e-01 -3.991736e-01 -2.558164e-02 2.691577e-01   
## 2406 2407 2408 2409 2410   
## 3.527529e-01 -2.893032e-03 -8.710975e-01 1.870134e-01 1.165504e-01   
## 2411 2412 2413 2414 2415   
## -4.584802e-01 5.334497e-01 2.830030e-01 5.173188e-01 1.779202e-01   
## 2416 2417 2418 2419 2420   
## 3.356464e-01 2.170408e-01 6.458097e-01 1.041598e-01 -8.059946e-01   
## 2421 2422 2423 2424 2425   
## 1.681846e-01 3.561042e-01 -5.503089e-01 -5.326192e-01 1.568062e-01   
## 2426 2427 2428 2429 2430   
## 1.363042e-01 -5.137300e-01 1.086290e-01 2.646605e-01 1.644901e-01   
## 2431 2432 2433 2434 2435   
## 3.609713e-01 4.216065e-01 2.564345e-01 -4.141326e-01 5.878525e-02   
## 2436 2437 2438 2439 2440   
## 1.133164e-01 6.689486e-01 -2.735992e-01 5.059298e-03 -4.052563e-01   
## 2441 2442 2443 2444 2445   
## 3.339966e-01 -4.136675e-01 5.581563e-01 -2.963338e-01 3.621653e-01   
## 2446 2447 2448 2449 2450   
## 8.536153e-03 -5.973741e-01 -3.870231e-01 6.885269e-01 -4.747016e-02   
## 2451 2452 2453 2454 2455   
## -4.476358e-01 3.397667e-03 2.840950e-01 3.255022e-01 2.097550e-01   
## 2456 2457 2458 2459 2460   
## -3.989055e-02 -5.786646e-02 2.932013e-01 6.624643e-01 -3.251147e-01   
## 2461 2462 2463 2464 2465   
## -5.204414e-01 -7.313797e-02 3.040013e-01 -4.904870e-01 7.500734e-02   
## 2466 2467 2468 2469 2470   
## 7.979847e-03 -6.116358e-01 -1.583328e-01 1.579190e-01 4.376128e-01   
## 2471 2472 2473 2474 2475   
## 2.942965e-02 -1.110005e-01 6.031613e-01 3.396332e-01 -2.917708e-02   
## 2476 2477 2478 2479 2480   
## -5.836213e-01 1.621089e-02 4.013160e-01 -6.381371e-01 1.417196e-01   
## 2481 2482 2483 2484 2485   
## -4.157139e-01 4.293043e-01 9.867730e-02 -7.950957e-01 -7.280216e-02   
## 2486 2487 2488 2489 2490   
## 3.061840e-01 7.068528e-02 -6.158834e-01 6.754121e-01 -5.902027e-01   
## 2491 2492 2493 2494 2495   
## 8.704311e-02 4.238951e-02 1.846291e-01 2.055452e-01 5.777007e-02   
## 2496 2497 2498 2499 2500   
## 6.483046e-03 -1.103054e-01 -6.700649e-03 -1.213188e-02 -4.612707e-01   
## 2501 2502 2503 2504 2505   
## 6.779786e-02 -1.786934e-02 -4.784249e-03 1.391671e-01 -1.381161e-02   
## 2506 2507 2508 2509 2510   
## -3.428167e-01 3.583205e-01 1.603114e-01 -6.204545e-02 -4.026399e-01   
## 2511 2512 2513 2514 2515   
## 6.068997e-02 -2.677599e-01 -3.739010e-01 5.750089e-01 7.136057e-01   
## 2516 2517 2518 2519 2520   
## 3.520301e-02 -4.576126e-01 1.601047e-01 -4.807856e-02 -1.322745e-01   
## 2521 2522 2523 2524 2525   
## -2.366088e-02 -8.136671e-01 -3.463989e-01 -4.016051e-01 -8.843133e-01   
## 2526 2527 2528 2529 2530   
## 6.148618e-01 -2.048990e-03 3.838757e-01 5.873349e-02 5.994864e-02   
## 2531 2532 2533 2534 2535   
## -3.422998e-02 -8.874999e-01 -6.270913e-02 2.110309e-01 -5.320680e-02   
## 2536 2537 2538 2539 2540   
## 1.093537e-02 4.960883e-02 2.332474e-01 -4.194499e-01 3.593484e-01   
## 2541 2542 2543 2544 2545   
## -4.854902e-02 2.699491e-01 -1.000145e-02 5.999998e-01 1.887818e-01   
## 2546 2547 2548 2549 2550   
## -6.027016e-02 1.380037e-01 7.911943e-02 2.245662e-01 3.344467e-01   
## 2551 2552 2553 2554 2555   
## 3.722800e-01 3.403651e-01 3.521421e-01 5.620178e-02 7.519931e-03   
## 2556 2557 2558 2559 2560   
## -6.552661e-01 3.713199e-02 4.441049e-02 -4.112035e-01 -6.199731e-01   
## 2561 2562 2563 2564 2565   
## 1.375030e-01 -1.286271e-01 -6.957611e-01 4.130979e-02 -6.090463e-02   
## 2566 2567 2568 2569 2570   
## -4.355745e-01 2.625996e-01 -5.976077e-02 -5.324102e-01 -4.442951e-01   
## 2571 2572 2573 2574 2575   
## 7.772658e-02 2.325975e-01 -2.292402e-01 -5.223839e-01 -3.795289e-02   
## 2576 2577 2578 2579 2580   
## 5.567382e-01 1.508249e-01 6.496037e-01 -5.420131e-02 9.476823e-02   
## 2581 2582 2583 2584 2585   
## 6.231797e-03 5.809029e-02 3.767794e-02 2.629961e-01 -2.985230e-01   
## 2586 2587 2588 2589 2590   
## 4.587487e-01 3.581150e-01 1.604622e-01 -1.025630e-01 1.093514e-01   
## 2591 2592 2593 2594 2595   
## 1.521682e-02 2.670307e-01 1.296754e-01 5.621946e-01 -1.676769e-01   
## 2596 2597 2598 2599 2600   
## 5.496698e-01 2.148600e-02 1.644581e-01 1.192111e-03 5.162471e-01   
## 2601 2602 2603 2604 2605   
## 1.298810e-01 4.348484e-01 -3.564208e-01 -7.230633e-01 -6.682632e-01   
## 2606 2607 2608 2609 2610   
## -7.676141e-01 -4.504370e-01 3.505016e-01 -3.504110e-01 -9.045504e-01   
## 2611 2612 2613 2614 2615   
## -1.073374e-01 -6.607055e-01 -7.579079e-01 5.189128e-02 -4.889314e-01   
## 2616 2617 2618 2619 2620   
## 2.373660e-01 -6.424642e-02 3.377237e-01 5.195024e-01 2.995057e-01   
## 2621 2622 2623 2624 2625   
## 2.498697e-01 8.149398e-02 6.330489e-02 4.668405e-01 -4.629320e-01   
## 2626 2627 2628 2629 2630   
## 7.290356e-02 -2.281319e-01 8.409634e-02 8.563236e-02 -4.031774e-01   
## 2631 2632 2633 2634 2635   
## -1.667441e-02 6.072738e-02 2.695067e-02 -7.882953e-01 -6.897882e-01   
## 2636 2637 2638 2639 2640   
## 4.171694e-01 2.480263e-01 -6.258012e-01 -4.874870e-01 -6.649503e-01   
## 2641 2642 2643 2644 2645   
## 1.776360e-01 3.276781e-02 2.423068e-01 2.348773e-01 -3.150033e-02   
## 2646 2647 2648 2649 2650   
## 5.006592e-01 -4.370759e-01 4.192659e-01 -1.479471e-01 -2.825771e-01   
## 2651 2652 2653 2654 2655   
## -3.916163e-01 1.327815e-01 3.326968e-01 4.402597e-02 -3.349454e-02   
## 2656 2657 2658 2659 2660   
## 2.771857e-01 -2.489278e-02 -4.640799e-01 2.097022e-01 1.684740e-01   
## 2661 2662 2663 2664 2665   
## 3.162667e-01 -5.937458e-02 -5.106881e-02 -8.349538e-01 -4.726831e-01   
## 2666 2667 2668 2669 2670   
## 2.121062e-01 2.021831e-01 5.362837e-02 -4.399754e-01 2.365278e-01   
## 2671 2672 2673 2674 2675   
## -2.234583e-02 7.669314e-02 -4.234156e-01 6.580031e-02 -3.627120e-01   
## 2676 2677 2678 2679 2680   
## -2.142014e-01 1.295222e-02 -5.933598e-01 -4.273620e-01 1.477020e-01   
## 2681 2682 2683 2684 2685   
## -5.404011e-04 -4.031019e-01 3.735879e-01 -3.952090e-01 7.046114e-02   
## 2686 2687 2688 2689 2690   
## -3.621954e-01 3.318248e-01 2.609269e-01 -1.147412e-01 1.308832e-01   
## 2691 2692 2693 2694 2695   
## 3.893654e-02 -6.270531e-02 -1.625397e-01 1.863575e-01 4.862119e-01   
## 2696 2697 2698 2699 2700   
## 2.847424e-01 -5.139102e-02 3.418886e-01 -5.281984e-01 8.340126e-02   
## 2701 2702 2703 2704 2705   
## -6.351016e-02 -4.532935e-01 -3.732895e-01 -3.070387e-01 3.917309e-01   
## 2706 2707 2708 2709 2710   
## 7.851356e-02 -5.409463e-01 3.122881e-01 2.444616e-01 2.099644e-01   
## 2711 2712 2713 2714 2715   
## 1.618173e-01 2.907133e-01 -1.719545e-01 -4.432495e-02 2.548775e-02   
## 2716 2717 2718 2719 2720   
## -6.399500e-01 -3.541789e-01 -7.548713e-03 1.255485e-01 -6.369523e-02   
## 2721 2722 2723 2724 2725   
## 3.823790e-01 1.313847e-02 -2.727149e-01 2.742860e-01 -2.838860e-01   
## 2726 2727 2728 2729 2730   
## 3.069515e-01 1.754850e-01 1.493397e-01 4.721442e-01 1.661593e-01   
## 2731 2732 2733 2734 2735   
## 3.941559e-01 3.272909e-01 1.992740e-01 5.214675e-02 1.938177e-01   
## 2736 2737 2738 2739 2740   
## -6.433762e-01 -2.702556e-01 -1.703912e-01 1.691940e-02 2.769292e-01   
## 2741 2742 2743 2744 2745   
## -2.285967e-01 9.090492e-03 2.188632e-01 -4.649824e-01 2.608340e-01   
## 2746 2747 2748 2749 2750   
## 1.883138e-01 3.723336e-01 -8.638546e-01 -2.639443e-01 2.815137e-01   
## 2751 2752 2753 2754 2755   
## 6.319003e-02 -7.981921e-01 5.235601e-02 1.813072e-01 1.647597e-01   
## 2756 2757 2758 2759 2760   
## 1.158522e-01 -4.851940e-01 3.278545e-01 9.039835e-02 8.711103e-02   
## 2761 2762 2763 2764 2765   
## 5.316716e-01 1.168409e-01 2.815170e-01 1.187958e-01 -8.683986e-01   
## 2766 2767 2768 2769 2770   
## -3.711047e-01 3.153370e-01 -1.405396e-01 3.024748e-01 2.812860e-01   
## 2771 2772 2773 2774 2775   
## -8.923102e-01 -4.667934e-01 1.593243e-01 4.767738e-01 -3.339356e-01   
## 2776 2777 2778 2779 2780   
## -8.961560e-01 4.433697e-01 1.108670e-01 3.608846e-01 -4.203343e-01   
## 2781 2782 2783 2784 2785   
## 3.706881e-01 1.046946e-01 -6.270755e-02 8.582094e-02 5.539627e-01   
## 2786 2787 2788 2789 2790   
## -8.067025e-01 3.580423e-02 2.670119e-01 5.831837e-01 1.670277e-01   
## 2791 2792 2793 2794 2795   
## -3.361180e-01 3.033444e-01 -2.431771e-01 -3.599150e-01 -4.743496e-02   
## 2796 2797 2798 2799 2800   
## 1.214413e-01 1.907363e-01 -4.595222e-01 2.369881e-02 -7.040431e-01   
## 2801 2802 2803 2804 2805   
## -1.518621e-01 7.644714e-02 1.038991e-01 5.928463e-01 2.973731e-01   
## 2806 2807 2808 2809 2810   
## 2.224406e-01 -1.680535e-02 -8.128544e-01 -3.538090e-02 -7.121589e-02   
## 2811 2812 2813 2814 2815   
## -4.250228e-01 7.269303e-02 -1.124319e-02 -6.062337e-01 2.683357e-01   
## 2816 2817 2818 2819 2820   
## 2.378892e-02 -2.976574e-01 -9.280811e-01 3.360436e-02 -6.570163e-02   
## 2821 2822 2823 2824 2825   
## 2.612738e-01 2.547403e-01 3.899634e-01 1.085807e-01 -3.939655e-01   
## 2826 2827 2828 2829 2830   
## -8.763324e-02 -3.010922e-01 1.353255e-01 -8.055290e-02 1.571565e-02   
## 2831 2832 2833 2834 2835   
## 4.059867e-03 3.609986e-01 -8.015380e-01 1.175976e-03 -4.770905e-02   
## 2836 2837 2838 2839 2840   
## 2.689582e-01 3.795142e-01 3.142176e-01 -5.404406e-02 -2.494802e-01   
## 2841 2842 2843 2844 2845   
## 5.087564e-01 4.286147e-01 4.286530e-01 1.661786e-01 1.668029e-01   
## 2846 2847 2848 2849 2850   
## 3.532626e-01 -5.272279e-02 -1.057312e-01 2.481459e-01 2.936705e-01   
## 2851 2852 2853 2854 2855   
## -3.444437e-02 4.604123e-01 -2.463146e-02 2.237518e-01 -4.900058e-02   
## 2856 2857 2858 2859 2860   
## 3.580252e-01 -3.282113e-01 -4.376516e-01 3.541605e-01 3.439762e-01   
## 2861 2862 2863 2864 2865   
## 4.673715e-02 5.689592e-01 7.486664e-02 4.904196e-01 -3.049835e-01   
## 2866 2867 2868 2869 2870   
## 1.997820e-01 -3.596892e-01 3.514404e-03 -4.057309e-01 -7.693092e-02   
## 2871 2872 2873 2874 2875   
## -4.123889e-01 1.313020e-01 -6.800772e-01 5.216963e-01 -6.951475e-01   
## 2876 2877 2878 2879 2880   
## 5.690083e-01 1.574807e-01 4.671949e-01 -5.005983e-02 -8.935303e-02   
## 2881 2882 2883 2884 2885   
## 9.095472e-02 1.670943e-01 -5.921719e-01 -3.670654e-01 6.276339e-02   
## 2886 2887 2888 2889 2890   
## -6.794957e-01 -3.449406e-01 1.941399e-01 -7.684229e-01 -9.845999e-01   
## 2891 2892 2893 2894 2895   
## 8.295060e-02 1.579188e-01 2.568411e-02 3.081213e-01 -1.163405e-01   
## 2896 2897 2898 2899 2900   
## -3.783627e-01 6.736842e-02 5.605807e-01 2.612148e-01 -5.682448e-01   
## 2901 2902 2903 2904 2905   
## 3.219366e-01 3.035586e-01 -4.093022e-01 -4.008001e-01 4.559996e-02   
## 2906 2907 2908 2909 2910   
## 7.944611e-02 -4.826596e-01 5.292884e-01 1.019317e-02 3.021990e-01   
## 2911 2912 2913 2914 2915   
## -6.968398e-02 1.771864e-01 -6.924261e-02 4.885713e-01 1.842039e-01   
## 2916 2917 2918 2919 2920   
## -1.737263e-01 -2.779035e-01 -5.255994e-01 2.231554e-01 -4.822749e-01   
## 2921 2922 2923 2924 2925   
## 2.252844e-01 3.242552e-02 5.945541e-01 -1.014412e-01 5.532212e-02   
## 2926 2927 2928 2929 2930   
## 6.018047e-02 5.359049e-01 2.733977e-01 -3.514097e-02 1.169745e-01   
## 2931 2932 2933 2934 2935   
## -1.359526e-01 4.638791e-01 2.020327e-01 2.090286e-01 -5.020205e-01   
## 2936 2937 2938 2939 2940   
## -6.594623e-01 4.480834e-02 -2.435508e-02 9.766581e-02 3.080147e-01   
## 2941 2942 2943 2944 2945   
## 4.514595e-01 2.939482e-01 2.930943e-01 -4.671345e-01 -1.877187e-02   
## 2946 2947 2948 2949 2950   
## 2.279225e-01 2.138617e-01 1.426711e-01 -4.235206e-01 -4.113160e-01   
## 2951 2952 2953 2954 2955   
## -2.768829e-01 3.396595e-01 6.326714e-01 1.757772e-01 3.334549e-01   
## 2956 2957 2958 2959 2960   
## -4.173455e-01 2.748053e-01 -6.298650e-01 1.270909e-01 1.909517e-01   
## 2961 2962 2963 2964 2965   
## -7.073880e-01 5.600053e-01 6.204908e-02 5.699980e-01 1.431618e-02   
## 2966 2967 2968 2969 2970   
## -3.651499e-01 -8.024520e-02 -4.432882e-02 -7.528799e-01 -5.494633e-01   
## 2971 2972 2973 2974 2975   
## 3.541049e-01 2.028817e-01 2.373981e-01 3.802098e-01 8.719663e-02   
## 2976 2977 2978 2979 2980   
## -5.784716e-02 -9.820728e-02 2.691564e-02 -1.727223e-01 1.447620e-01   
## 2981 2982 2983 2984 2985   
## 2.956290e-01 1.906714e-01 4.141090e-04 8.424152e-02 2.112785e-01   
## 2986 2987 2988 2989 2990   
## -5.358403e-01 3.669534e-01 2.716307e-01 1.288139e-01 -1.687227e-02   
## 2991 2992 2993 2994 2995   
## 3.751453e-01 3.312371e-01 -6.828778e-01 5.695262e-01 1.224716e-01   
## 2996 2997 2998 2999 3000   
## -3.612892e-01 1.719933e-01 1.655475e-01 -5.805553e-01 -3.608736e-01   
## 3001 3002 3003 3004 3005   
## 2.360967e-01 -3.668894e-01 -5.397254e-01 1.252538e-01 3.007672e-01   
## 3006 3007 3008 3009 3010   
## 4.164807e-01 6.184940e-02 -4.991717e-02 3.839311e-01 4.761276e-01   
## 3011 3012 3013 3014 3015   
## -7.470044e-02 -5.467793e-01 1.476461e-01 4.169322e-03 -8.367044e-01   
## 3016 3017 3018 3019 3020   
## 8.411283e-02 1.792035e-01 1.917531e-01 -1.697943e-01 1.479852e-01   
## 3021 3022 3023 3024 3025   
## -4.440722e-02 -3.750925e-01 2.324775e-01 -7.188646e-01 -7.153890e-01   
## 3026 3027 3028 3029 3030   
## -3.512557e-01 -5.979732e-01 4.058677e-02 1.048039e-01 -3.422978e-01   
## 3031 3032 3033 3034 3035   
## 5.153487e-01 3.418962e-02 4.742182e-02 2.409369e-01 1.530921e-02   
## 3036 3037 3038 3039 3040   
## -9.212247e-01 3.564049e-01 -7.924087e-01 -5.166433e-01 -5.856192e-01   
## 3041 3042 3043 3044 3045   
## 1.663116e-01 2.112865e-01 -6.134072e-01 3.455271e-01 -8.203040e-01   
## 3046 3047 3048 3049 3050   
## -4.273819e-01 -1.706561e-01 2.522918e-01 1.305397e-01 1.489189e-01   
## 3051 3052 3053 3054 3055   
## -6.926648e-01 3.547315e-02 5.452823e-02 -6.665903e-01 4.769241e-03   
## 3056 3057 3058 3059 3060   
## 3.357291e-01 -3.530754e-01 2.990529e-01 5.167788e-01 4.819012e-01   
## 3061 3062 3063 3064 3065   
## 4.134045e-01 6.208644e-01 -4.025541e-01 2.685270e-01 2.254240e-01   
## 3066 3067 3068 3069 3070   
## 2.962052e-01 4.871633e-02 -2.739553e-02 1.261159e-01 1.917479e-01   
## 3071 3072 3073 3074 3075   
## 1.960304e-01 -7.358799e-01 -3.941144e-03 -2.370321e-01 -5.408413e-01   
## 3076 3077 3078 3079 3080   
## 3.851536e-01 -4.307108e-01 9.568044e-03 -1.365325e-02 1.786010e-01   
## 3081 3082 3083 3084 3085   
## -2.812930e-01 5.350918e-01 -3.157613e-01 -1.330455e-02 -1.275256e-01   
## 3086 3087 3088 3089 3090   
## -5.469041e-01 1.259016e-01 -5.522162e-01 1.256032e-01 2.048941e-01   
## 3091 3092 3093 3094 3095   
## 5.383174e-01 5.648289e-02 1.670369e-01 -5.380447e-01 1.089764e-01   
## 3096 3097 3098 3099 3100   
## 3.337150e-01 2.616970e-01 -7.822514e-01 -7.166936e-01 6.533115e-01   
## 3101 3102 3103 3104 3105   
## 1.684340e-01 -4.509515e-02 -5.816610e-03 2.190729e-01 3.316419e-02   
## 3106 3107 3108 3109 3110   
## 1.880527e-01 -8.687619e-01 -3.888176e-03 5.408101e-01 3.661963e-01   
## 3111 3112 3113 3114 3115   
## -4.391792e-01 3.026277e-01 1.671392e-01 1.430398e-02 -4.168561e-01   
## 3116 3117 3118 3119 3120   
## 3.145823e-03 -6.748501e-01 -2.433311e-02 5.031568e-01 -1.735241e-01   
## 3121 3122 3123 3124 3125   
## 1.752256e-01 1.290487e-01 -6.646367e-01 1.419138e-01 1.789186e-01   
## 3126 3127 3128 3129 3130   
## 1.698775e-01 -1.322709e-01 5.424087e-01 6.421112e-02 4.908600e-02   
## 3131 3132 3133 3134 3135   
## -4.852338e-01 -4.832263e-01 3.154644e-01 -5.941734e-01 -6.913203e-01   
## 3136 3137 3138 3139 3140   
## 4.752320e-01 -3.885884e-01 -8.106930e-01 3.341265e-01 1.698787e-01   
## 3141 3142 3143 3144 3145   
## -4.410502e-01 -4.063603e-01 5.148001e-01 2.334280e-01 3.176069e-01   
## 3146 3147 3148 3149 3150   
## 3.996221e-01 3.979158e-01 3.255393e-01 2.554767e-01 5.460110e-01   
## 3151 3152 3153 3154 3155   
## 4.937189e-02 1.245288e-01 -6.766449e-01 -6.704154e-01 8.029799e-01   
## 3156 3157 3158 3159 3160   
## -1.315707e-01 1.055618e-01 4.298488e-01 4.636255e-01 4.892728e-01   
## 3161 3162 3163 3164 3165   
## 6.740165e-02 2.173197e-01 -1.006328e-01 6.278452e-02 4.095096e-02   
## 3166 3167 3168 3169 3170   
## 4.802528e-01 9.520419e-02 -4.877607e-01 1.071168e-01 2.687102e-01   
## 3171 3172 3173 3174 3175   
## -4.410389e-01 2.538589e-02 -8.005827e-02 -7.637899e-01 8.488447e-02   
## 3176 3177 3178 3179 3180   
## 1.891324e-01 -4.526924e-02 2.776262e-01 -4.438006e-01 -2.344538e-02   
## 3181 3182 3183 3184 3185   
## -5.527694e-01 -8.103243e-02 3.945895e-01 -6.798256e-01 1.344940e-01   
## 3186 3187 3188 3189 3190   
## 1.927024e-02 4.174996e-01 -2.242146e-02 7.526094e-02 -6.603921e-01   
## 3191 3192 3193 3194 3195   
## 4.864893e-01 1.478311e-01 -6.936722e-01 4.208128e-01 -5.626281e-02   
## 3196 3197 3198 3199 3200   
## -6.139289e-01 1.368158e-01 4.595464e-01 -1.715177e-01 4.536837e-02   
## 3201 3202 3203 3204 3205   
## -6.664143e-03 1.817397e-01 2.163849e-01 1.968389e-01 -2.348166e-01   
## 3206 3207 3208 3209 3210   
## -6.374512e-02 9.342198e-02 3.482412e-01 1.216968e-01 3.395519e-01   
## 3211 3212 3213 3214 3215   
## 3.989047e-01 -6.625555e-01 2.455957e-01 7.693878e-02 7.752963e-02   
## 3216 3217 3218 3219 3220   
## -1.184917e-01 3.710966e-01 3.278565e-01 3.520665e-01 -5.131964e-01   
## 3221 3222 3223 3224 3225   
## 4.144716e-01 1.800756e-01 4.036539e-01 3.127535e-01 -2.999544e-01   
## 3226 3227 3228 3229 3230   
## -8.775621e-02 2.529018e-01 5.297004e-02 4.719723e-01 2.379176e-02   
## 3231 3232 3233 3234 3235   
## -4.248088e-02 3.249765e-01 -5.527470e-02 2.248817e-03 2.839014e-01   
## 3236 3237 3238 3239 3240   
## -7.763844e-01 -8.084624e-01 7.350656e-02 4.115319e-01 3.518553e-01   
## 3241 3242 3243 3244 3245   
## -6.920425e-01 -5.936973e-01 7.731853e-02 -2.778528e-01 3.291362e-01   
## 3246 3247 3248 3249 3250   
## 1.788555e-01 -5.164793e-01 2.276483e-01 4.368969e-01 6.379274e-01   
## 3251 3252 3253 3254 3255   
## 1.505674e-01 -1.191341e-01 5.438474e-01 4.308180e-01 5.180017e-01   
## 3256 3257 3258 3259 3260   
## -6.626797e-01 -1.285965e-01 -5.802233e-01 1.275061e-01 5.197106e-01   
## 3261 3262 3263 3264 3265   
## -5.668566e-01 -1.293604e-01 8.277674e-04 2.819536e-01 1.603658e-03   
## 3266 3267 3268 3269 3270   
## 7.118864e-01 -2.632321e-01 -3.866296e-01 -6.305973e-01 3.977897e-01   
## 3271 3272 3273 3274 3275   
## 7.798608e-02 -3.663908e-01 9.543270e-02 1.030237e-02 7.556350e-02   
## 3276 3277 3278 3279 3280   
## -6.899912e-02 2.877057e-01 2.082691e-01 -2.060275e-02 4.755288e-01   
## 3281 3282 3283 3284 3285   
## -1.172546e-01 -4.087047e-01 -4.656835e-01 6.018161e-02 3.951686e-01   
## 3286 3287 3288 3289 3290   
## 3.274397e-01 1.184380e-01 5.187595e-01 4.726790e-01 -4.218077e-01   
## 3291 3292 3293 3294 3295   
## -1.961017e-01 2.858871e-01 6.740597e-02 1.868095e-01 7.999809e-02   
## 3296 3297 3298 3299 3300   
## 4.790329e-02 -3.535857e-01 -5.116857e-01 -4.577112e-01 1.531215e-01   
## 3301 3302 3303 3304 3305   
## 5.214348e-01 4.912635e-01 6.820671e-02 1.297766e-01 6.906385e-02   
## 3306 3307 3308 3309 3310   
## -3.556655e-01 2.362239e-01 1.930246e-01 1.770352e-01 2.705308e-01   
## 3311 3312 3313 3314 3315   
## 1.959977e-01 1.942919e-01 -9.581864e-02 -6.425453e-01 -5.358321e-01   
## 3316 3317 3318 3319 3320   
## 3.630156e-01 -1.850059e-02 -2.855358e-01 1.007583e-01 5.482040e-01   
## 3321 3322 3323 3324 3325   
## -3.003214e-01 -8.095515e-01 1.714845e-01 6.011069e-01 2.868928e-01   
## 3326 3327 3328 3329 3330   
## -5.344600e-01 -6.331996e-01 2.464096e-02 -5.316932e-01 2.091072e-01   
## 3331 3332 3333 3334 3335   
## -5.614906e-02 6.261019e-01 -4.780322e-01 -1.626771e-01 -2.812340e-01   
## 3336 3337 3338 3339 3340   
## 2.150121e-01 1.945562e-01 8.866221e-02 -3.968517e-01 1.890719e-01   
## 3341 3342 3343 3344 3345   
## 7.530593e-01 3.042789e-02 2.629467e-01 -2.994314e-01 -5.988637e-01   
## 3346 3347 3348 3349 3350   
## -7.364355e-01 -2.719021e-01 5.631905e-01 6.283009e-02 5.690169e-03   
## 3351 3352 3353 3354 3355   
## -6.099211e-01 -6.233327e-01 1.193812e-01 1.866721e-01 -4.368426e-01   
## 3356 3357 3358 3359 3360   
## 7.783972e-02 -6.699744e-01 9.308377e-02 -4.366511e-01 5.491564e-02   
## 3361 3362 3363 3364 3365   
## 4.576463e-01 3.584860e-02 3.455463e-01 4.196628e-01 1.582744e-01   
## 3366 3367 3368 3369 3370   
## -8.077959e-01 3.347301e-01 -2.857762e-01 -6.669495e-01 -1.254782e-01   
## 3371 3372 3373 3374 3375   
## 2.184303e-01 -4.408407e-02 -1.762103e-01 1.865629e-01 -1.776183e-01   
## 3376 3377 3378 3379 3380   
## 1.094822e-01 -8.328821e-02 -3.667757e-01 -4.550974e-01 -2.953356e-01   
## 3381 3382 3383 3384 3385   
## 6.086680e-02 1.825109e-01 6.052064e-02 6.075695e-01 -1.581979e-02   
## 3386 3387 3388 3389 3390   
## 1.755078e-01 1.214940e-01 1.746533e-01 1.842352e-01 1.296841e-01   
## 3391 3392 3393 3394 3395   
## 1.193821e-01 -6.656203e-02 1.646693e-01 1.734980e-01 5.368117e-01   
## 3396 3397 3398 3399 3400   
## -1.445475e-02 -3.282923e-01 1.742063e-01 5.186919e-02 1.477510e-01   
## 3401 3402 3403 3404 3405   
## 7.441862e-02 1.324461e-02 -6.781806e-01 8.753859e-02 -6.239511e-01   
## 3406 3407 3408 3409 3410   
## -5.521383e-01 1.120076e-01 4.895660e-01 3.867747e-02 -7.666270e-01   
## 3411 3412 3413 3414 3415   
## 3.848686e-01 2.214258e-01 2.401229e-01 4.918011e-02 2.963338e-01   
## 3416 3417 3418 3419 3420   
## -4.075537e-02 -4.834674e-03 -7.165120e-01 -3.487386e-01 3.768486e-01   
## 3421 3422 3423 3424 3425   
## -4.061894e-01 6.406938e-01 -6.449926e-01 -3.537815e-02 1.227092e-01   
## 3426 3427 3428 3429 3430   
## -3.827012e-01 -7.700877e-02 1.998683e-01 2.100016e-01 5.909991e-01   
## 3431 3432 3433 3434 3435   
## 1.052097e-01 2.171312e-01 -3.417462e-01 -8.211691e-01 -1.022899e-01   
## 3436 3437 3438 3439 3440   
## 1.168228e-01 4.458907e-01 2.329626e-01 1.701590e-01 3.367589e-01   
## 3441 3442 3443 3444 3445   
## 2.186448e-01 3.199067e-01 -6.810693e-01 2.864569e-01 2.651817e-01   
## 3446 3447 3448 3449 3450   
## 2.562732e-01 4.070845e-01 2.381482e-01 3.582204e-01 -2.857785e-01   
## 3451 3452 3453 3454 3455   
## -1.450424e-02 2.413485e-01 -4.655624e-01 1.095052e-01 3.240911e-01   
## 3456 3457 3458 3459 3460   
## 1.362430e-02 -3.145637e-01 4.359489e-01 4.317784e-01 3.933392e-01   
## 3461 3462 3463 3464 3465   
## -3.235359e-02 -2.545829e-01 1.663888e-01 6.841231e-01 2.947104e-01   
## 3466 3467 3468 3469 3470   
## 6.584268e-02 3.589769e-01 -5.928234e-01 2.182067e-01 1.297429e-01   
## 3471 3472 3473 3474 3475   
## 2.824679e-01 5.582217e-01 3.372239e-01 -5.992469e-01 -9.872783e-02   
## 3476 3477 3478 3479 3480   
## 4.046144e-01 3.113303e-01 4.143147e-01 4.227018e-01 -3.705435e-01   
## 3481 3482 3483 3484 3485   
## 2.215889e-01 -7.603149e-02 4.356823e-01 2.398040e-01 -6.501224e-01   
## 3486 3487 3488 3489 3490   
## 1.067628e-01 3.652193e-01 3.921050e-01 -3.675767e-01 -2.923083e-01   
## 3491 3492 3493 3494 3495   
## 3.324353e-01 6.398453e-01 -6.896107e-01 -7.985639e-01 2.660313e-01   
## 3496 3497 3498 3499 3500   
## -1.097278e-02 2.451859e-01 1.884510e-01 -1.234195e-01 4.129307e-01   
## 3501 3502 3503 3504 3505   
## 4.827182e-01 1.808719e-01 8.432281e-03 4.067128e-01 6.230521e-01   
## 3506 3507 3508 3509 3510   
## 9.745019e-03 8.652965e-02 1.227203e-01 1.176793e-01 2.503930e-01   
## 3511 3512 3513 3514 3515   
## -6.205093e-01 -9.836194e-01 1.867046e-01 5.059429e-01 1.530595e-01   
## 3516 3517 3518 3519 3520   
## -4.527497e-02 1.432035e-02 -4.870622e-02 -3.015551e-01 -5.859074e-01   
## 3521 3522 3523 3524 3525   
## -6.191318e-01 -3.619320e-01 -8.029821e-01 6.313029e-01 3.794727e-01   
## 3526 3527 3528 3529 3530   
## 9.205117e-02 -6.138881e-01 1.764647e-01 -8.148042e-01 1.202987e-01   
## 3531 3532 3533 3534 3535   
## 6.417819e-01 1.510613e-01 -1.309321e-01 -6.235318e-01 -6.598253e-02   
## 3536 3537 3538 3539 3540   
## 1.967816e-01 1.611663e-01 -7.166528e-02 -5.710216e-01 4.567970e-01   
## 3541 3542 3543 3544 3545   
## -1.182588e-01 -8.948470e-02 6.341341e-02 -1.465938e-01 -5.482941e-01   
## 3546 3547 3548 3549 3550   
## -3.695732e-01 7.249495e-02 -4.556672e-02 5.523074e-01 -4.036672e-01   
## 3551 3552 3553 3554 3555   
## 1.084946e-01 3.586735e-01 4.445743e-01 2.158272e-02 3.267500e-01   
## 3556 3557 3558 3559 3560   
## -5.427511e-01 -2.850482e-01 5.264498e-01 1.958600e-01 -6.133861e-01   
## 3561 3562 3563 3564 3565   
## 1.162756e-01 -5.291325e-01 4.883226e-01 1.057579e-01 4.763689e-02   
## 3566 3567 3568 3569 3570   
## 3.100924e-01 5.178382e-01 1.236839e-01 2.476685e-01 2.570144e-01   
## 3571 3572 3573 3574 3575   
## 1.770332e-03 -8.330966e-01 1.498477e-01 4.051985e-01 -6.169417e-01   
## 3576 3577 3578 3579 3580   
## -1.884630e-01 6.485408e-01 1.768891e-01 5.086698e-01 2.973620e-01   
## 3581 3582 3583 3584 3585   
## -7.379652e-01 -2.664604e-01 4.370547e-01 2.852393e-01 4.946565e-02   
## 3586 3587 3588 3589 3590   
## -5.263968e-01 -5.915711e-01 -4.328084e-01 4.040004e-01 -3.687921e-01   
## 3591 3592 3593 3594 3595   
## -7.259928e-01 4.973647e-01 4.091301e-01 7.893606e-02 -6.406422e-01   
## 3596 3597 3598 3599 3600   
## 1.111805e-02 1.892937e-01 -6.400428e-01 5.965180e-02 2.369826e-01   
## 3601 3602 3603 3604 3605   
## 2.643504e-01 1.539681e-01 -6.096094e-01 2.718842e-01 -3.191364e-01   
## 3606 3607 3608 3609 3610   
## 2.595920e-01 5.348437e-01 3.073771e-01 -3.326947e-02 -4.472114e-01   
## 3611 3612 3613 3614 3615   
## 9.223542e-02 -4.791488e-01 1.568429e-01 -2.181932e-01 3.232692e-01   
## 3616 3617 3618 3619 3620   
## -5.819019e-01 -1.727007e-01 4.582619e-01 3.128303e-01 -9.364799e-02   
## 3621 3622 3623 3624 3625   
## 1.877304e-01 1.132567e-01 3.023609e-01 1.472513e-01 -8.299981e-01   
## 3626 3627 3628 3629 3630   
## -6.021138e-01 5.266882e-01 6.586824e-01 6.908289e-03 -4.906666e-02   
## 3631 3632 3633 3634 3635   
## 1.260568e-01 -8.289588e-01 -6.252150e-01 3.679618e-01 -4.360292e-01   
## 3636 3637 3638 3639 3640   
## 8.347794e-02 5.888984e-01 -6.518389e-03 2.655282e-02 1.670867e-01   
## 3641 3642 3643 3644 3645   
## 2.298004e-01 6.054132e-01 3.332414e-01 -8.206507e-02 5.513604e-02   
## 3646 3647 3648 3649 3650   
## 1.975653e-03 -5.590930e-01 1.498095e-01 4.100688e-01 8.437856e-02   
## 3651 3652 3653 3654 3655   
## 1.012161e-01 6.310226e-02 2.449171e-01 1.075151e-01 3.069531e-01   
## 3656 3657 3658 3659 3660   
## 2.838583e-01 -6.782543e-01 6.603217e-01 3.450331e-01 6.835329e-02   
## 3661 3662 3663 3664 3665   
## -6.175183e-01 5.124207e-01 2.403812e-01 3.824369e-01 1.073804e-01   
## 3666 3667 3668 3669 3670   
## -3.403570e-01 -7.473395e-01 -5.205959e-01 -6.407775e-01 1.984620e-01   
## 3671 3672 3673 3674 3675   
## 8.711570e-02 3.453130e-01 2.794044e-01 -7.581407e-01 -6.277330e-01   
## 3676 3677 3678 3679 3680   
## -4.883232e-01 -4.113941e-01 -1.737951e-01 4.194981e-01 1.283810e-01   
## 3681 3682 3683 3684 3685   
## -4.012857e-01 -6.176772e-01 4.198297e-01 -3.420611e-01 -5.834797e-01   
## 3686 3687 3688 3689 3690   
## 1.876987e-01 4.405618e-01 1.758899e-01 -9.412542e-01 5.175413e-01   
## 3691 3692 3693 3694 3695   
## -6.763678e-01 3.883893e-01 2.732289e-01 1.187102e-01 -8.452987e-01   
## 3696 3697 3698 3699 3700   
## 5.334114e-02 -4.580217e-01 1.026410e-01 -2.117427e-02 -1.230175e-01   
## 3701 3702 3703 3704 3705   
## 4.415387e-01 -1.243836e-01 8.050889e-02 4.223624e-01 1.025983e-01   
## 3706 3707 3708 3709 3710   
## 1.051273e-02 4.419429e-02 -5.498252e-01 -1.249072e-01 6.343524e-01   
## 3711 3712 3713 3714 3715   
## -2.990878e-01 2.081144e-01 3.452177e-01 4.735558e-02 9.002124e-02   
## 3716 3717 3718 3719 3720   
## -8.030345e-01 9.532792e-02 1.299769e-01 -1.689298e-02 -3.869931e-01   
## 3721 3722 3723 3724 3725   
## -4.529358e-01 -2.278370e-01 -3.809679e-02 -2.318465e-02 -6.546295e-01   
## 3726 3727 3728 3729 3730   
## 5.881540e-01 1.741375e-01 7.233248e-02 1.136146e-01 7.060766e-01   
## 3731 3732 3733 3734 3735   
## 1.623489e-01 -5.415121e-01 3.464416e-01 1.288919e-01 5.843452e-01   
## 3736 3737 3738 3739 3740   
## -5.048971e-02 3.103882e-01 -7.474667e-01 3.291637e-01 -3.538772e-01   
## 3741 3742 3743 3744 3745   
## -4.068446e-01 3.499820e-01 1.365806e-02 -1.956322e-01 3.438100e-01   
## 3746 3747 3748 3749 3750   
## 2.036211e-01 -5.833990e-02 3.309532e-01 1.911658e-01 -3.548507e-01   
## 3751 3752 3753 3754 3755   
## -5.609995e-01 6.041190e-02 2.800884e-01 -3.438684e-01 5.606835e-01   
## 3756 3757 3758 3759 3760   
## -2.999962e-02 3.921212e-01 -3.603817e-01 1.771317e-01 2.453733e-01   
## 3761 3762 3763 3764 3765   
## -5.993458e-01 3.023026e-02 3.100021e-01 1.638073e-01 -6.393377e-02   
## 3766 3767 3768 3769 3770   
## -3.549733e-01 -3.423722e-01 -6.017945e-01 2.496217e-01 -4.756257e-01   
## 3771 3772 3773 3774 3775   
## 2.418800e-01 -6.388740e-02 3.884765e-01 -1.109051e+00 -2.360685e-02   
## 3776 3777 3778 3779 3780   
## 6.793302e-02 6.205930e-01 2.907429e-01 -4.072969e-01 -2.992418e-01   
## 3781 3782 3783 3784 3785   
## 4.831583e-01 2.689022e-01 -9.742534e-01 1.680308e-01 -8.749547e-01   
## 3786 3787 3788 3789 3790   
## 5.612731e-01 -3.854681e-01 1.745954e-01 3.519000e-01 6.014150e-01   
## 3791 3792 3793 3794 3795   
## -5.995704e-01 2.237726e-01 4.342762e-01 -8.577563e-01 2.280278e-02   
## 3796 3797 3798 3799 3800   
## -4.637804e-01 1.907940e-01 -8.406178e-01 5.326610e-01 -3.422938e-01   
## 3801 3802 3803 3804 3805   
## 5.249008e-01 -4.193334e-01 1.621777e-01 1.156528e-03 3.238034e-01   
## 3806 3807 3808 3809 3810   
## 2.902751e-01 1.282810e-01 1.521273e-01 -1.011236e-01 -3.570763e-01   
## 3811 3812 3813 3814 3815   
## 9.137724e-02 -2.940994e-02 1.260396e-01 1.772376e-01 1.344065e-01   
## 3816 3817 3818 3819 3820   
## -2.969084e-01 6.404670e-01 -1.875559e-01 4.532109e-01 -5.577843e-02   
## 3821 3822 3823 3824 3825   
## 1.528905e-01 -9.205050e-02 -4.819860e-01 -2.672250e-01 -4.876096e-01   
## 3826 3827 3828 3829 3830   
## 1.606969e-01 4.441136e-01 -9.085498e-01 6.387698e-02 -1.349162e-02   
## 3831 3832 3833 3834 3835   
## -4.253257e-01 5.856628e-01 1.357780e-01 1.147815e-02 -4.546254e-01   
## 3836 3837 3838 3839 3840   
## 5.511131e-01 -3.890387e-01 -7.935903e-01 -4.334405e-01 3.540594e-01   
## 3841 3842 3843 3844 3845   
## 2.011518e-01 3.320293e-01 -8.155684e-01 -1.462775e-02 1.253100e-02   
## 3846 3847 3848 3849 3850   
## 2.150814e-01 3.326855e-01 2.724762e-01 4.399721e-02 2.590286e-01   
## 3851 3852 3853 3854 3855   
## 1.617115e-01 5.047680e-02 2.828144e-01 3.479920e-01 3.519929e-01   
## 3856 3857 3858 3859 3860   
## -6.100051e-02 6.181071e-01 -4.413437e-01 2.230715e-01 9.709920e-02   
## 3861 3862 3863 3864 3865   
## 2.553982e-01 -5.750035e-01 3.684116e-01 1.471367e-01 -2.526698e-01   
## 3866 3867 3868 3869 3870   
## 5.420480e-01 -2.447133e-02 3.621422e-01 -6.055625e-01 6.008968e-01   
## 3871 3872 3873 3874 3875   
## -6.534173e-01 -1.995198e-02 -6.450997e-01 3.103805e-01 -1.741553e-01   
## 3876 3877 3878 3879 3880   
## 3.785123e-01 5.370330e-01 5.468705e-01 6.480559e-01 1.970187e-01   
## 3881 3882 3883 3884 3885   
## -5.291228e-01 -3.997271e-01 9.461685e-02 -8.851862e-01 1.246052e-01   
## 3886 3887 3888 3889 3890   
## 1.334542e-01 4.234833e-01 2.104152e-02 -5.064438e-02 3.221458e-02   
## 3891 3892 3893 3894 3895   
## -1.278529e-02 5.817514e-02 3.689099e-01 3.447920e-02 1.042937e-01   
## 3896 3897 3898 3899 3900   
## 3.417563e-01 2.252741e-01 8.737057e-02 -5.677965e-01 -4.014891e-01   
## 3901 3902 3903 3904 3905   
## 4.362515e-01 1.475009e-01 5.895337e-02 -5.764523e-01 -7.806084e-01   
## 3906 3907 3908 3909 3910   
## 3.364174e-02 -6.535624e-02 4.360239e-02 1.673278e-01 5.247337e-01   
## 3911 3912 3913 3914 3915   
## -4.115755e-01 -4.297442e-01 -2.839860e-01 7.915590e-02 2.385851e-01   
## 3916 3917 3918 3919 3920   
## 3.906506e-01 -3.325298e-01 -6.453931e-01 1.849224e-01 3.322820e-01   
## 3921 3922 3923 3924 3925   
## -7.736406e-01 5.963092e-01 1.222044e-01 1.077091e-01 2.189157e-01   
## 3926 3927 3928 3929 3930   
## -3.119067e-01 1.511880e-01 1.692710e-01 -8.931701e-02 2.747705e-01   
## 3931 3932 3933 3934 3935   
## 2.230276e-01 3.085191e-01 -4.269584e-01 3.676347e-01 1.793073e-01   
## 3936 3937 3938 3939 3940   
## -6.159684e-01 3.920290e-01 1.103558e-01 -7.273681e-01 -6.524677e-01   
## 3941 3942 3943 3944 3945   
## 2.730070e-01 2.301127e-01 2.854017e-01 -4.909969e-01 -1.480365e-01   
## 3946 3947 3948 3949 3950   
## 6.922509e-02 -4.372180e-01 7.172436e-01 4.449419e-01 -2.769057e-01   
## 3951 3952 3953 3954 3955   
## 2.254071e-01 -4.553402e-01 1.216429e-01 3.783043e-01 4.008782e-01   
## 3956 3957 3958 3959 3960   
## -2.737298e-01 -9.541578e-02 1.082017e-02 3.994105e-01 -1.478916e-02   
## 3961 3962 3963 3964 3965   
## 6.676522e-02 -1.039194e-01 5.649406e-01 6.664647e-03 -9.234518e-01   
## 3966 3967 3968 3969 3970   
## 1.463147e-01 1.657020e-01 2.188955e-01 -3.516574e-01 -5.731095e-01   
## 3971 3972 3973 3974 3975   
## 4.056883e-02 6.618620e-01 -1.465970e-02 -4.425264e-01 6.748913e-01   
## 3976 3977 3978 3979 3980   
## -6.565377e-02 -5.702973e-01 -9.000761e-02 2.946483e-01 -2.931812e-02   
## 3981 3982 3983 3984 3985   
## -3.861487e-01 4.759745e-02 3.811350e-01 6.454459e-01 -3.872600e-01   
## 3986 3987 3988 3989 3990   
## -5.142447e-02 -1.830072e-01 -5.943209e-01 -6.476934e-01 4.809094e-02   
## 3991 3992 3993 3994 3995   
## 3.736883e-02 7.331593e-02 -3.584760e-01 5.496444e-01 2.437769e-01   
## 3996 3997 3998 3999 4000   
## -1.455499e-01 1.193588e-02 -1.540221e-01 -7.062963e-01 -7.503212e-02   
## 4001 4002 4003 4004 4005   
## -1.561708e-02 2.062900e-01 -8.162515e-02 1.977185e-01 7.546808e-02   
## 4006 4007 4008 4009 4010   
## -6.612445e-01 4.058064e-01 2.916675e-01 1.657185e-01 3.636873e-01   
## 4011 4012 4013 4014 4015   
## 1.835923e-01 2.322154e-01 -3.346318e-01 2.397723e-02 -7.733909e-01   
## 4016 4017 4018 4019 4020   
## 1.636248e-01 1.134805e-02 3.550565e-01 -4.444492e-01 -1.454742e-02   
## 4021 4022 4023 4024 4025   
## -6.187456e-01 -3.602131e-02 -6.751221e-02 3.205392e-01 7.198921e-02   
## 4026 4027 4028 4029 4030   
## 2.545977e-01 -1.501726e-01 2.803822e-01 2.675347e-01 1.764736e-01   
## 4031 4032 4033 4034 4035   
## -2.538519e-02 -4.083638e-02 7.215867e-01 6.927979e-02 1.178319e-01   
## 4036 4037 4038 4039 4040   
## 3.734430e-01 1.289585e-01 -1.954191e-02 -4.665827e-01 2.918857e-01   
## 4041 4042 4043 4044 4045   
## 1.532336e-01 7.254860e-03 3.624058e-01 4.050376e-01 1.766226e-01   
## 4046 4047 4048 4049 4050   
## -5.637070e-01 3.245456e-01 4.462007e-01 6.548620e-02 -4.688615e-01   
## 4051 4052 4053 4054 4055   
## -6.814293e-02 -6.567513e-01 -5.462826e-01 7.225382e-02 2.282297e-01   
## 4056 4057 4058 4059 4060   
## -4.473561e-01 -3.671483e-01 3.001709e-01 -8.110648e-01 -8.733614e-03   
## 4061 4062 4063 4064 4065   
## -1.061988e-01 1.415164e-01 3.684110e-02 4.027922e-01 3.760777e-01   
## 4066 4067 4068 4069 4070   
## 6.536280e-01 -7.021822e-01 -5.843151e-01 1.978432e-01 6.743453e-02   
## 4071 4072 4073 4074 4075   
## 7.210912e-01 -8.689299e-01 5.341606e-01 7.337048e-02 -4.037261e-01   
## 4076 4077 4078 4079 4080   
## -9.229510e-01 -6.535065e-01 -4.087799e-01 2.857728e-01 -1.557175e-01   
## 4081 4082 4083 4084 4085   
## 2.249556e-01 -4.389605e-01 -3.890951e-01 2.822337e-01 3.319390e-01   
## 4086 4087 4088 4089 4090   
## 2.469250e-01 5.007888e-01 4.820457e-01 5.003011e-01 4.527990e-01   
## 4091 4092 4093 4094 4095   
## 1.779249e-01 -7.573972e-01 2.997575e-01 -3.596902e-02 3.587697e-01   
## 4096 4097 4098 4099 4100   
## 3.002677e-01 1.470120e-01 3.342367e-01 4.266004e-02 -3.361602e-01   
## 4101 4102 4103 4104 4105   
## 7.576210e-02 6.489642e-02 -5.676470e-01 -1.659569e-01 2.236040e-01   
## 4106 4107 4108 4109 4110   
## 2.362597e-01 9.163825e-02 -4.945630e-02 1.399270e-02 5.279693e-02   
## 4111 4112 4113 4114 4115   
## 8.027146e-02 3.056038e-01 1.029479e-01 3.714568e-01 -4.231265e-01   
## 4116 4117 4118 4119 4120   
## -9.331304e-02 4.232102e-01 7.087953e-01 2.698476e-01 1.515361e-01   
## 4121 4122 4123 4124 4125   
## 2.512493e-02 -7.329618e-01 4.241739e-01 2.915150e-01 -7.530750e-01   
## 4126 4127 4128 4129 4130   
## -6.034134e-01 3.143077e-01 3.550319e-01 1.220916e-01 6.070722e-04   
## 4131 4132 4133 4134 4135   
## 1.785717e-01 -3.454252e-01 5.476483e-01 -7.709380e-01 4.109893e-01   
## 4136 4137 4138 4139 4140   
## -1.298761e-01 -4.301708e-01 5.168286e-01 1.907870e-01 -5.283798e-01   
## 4141 4142 4143 4144 4145   
## -2.235767e-02 9.717992e-02 -9.043662e-01 7.177457e-01 3.294956e-01   
## 4146 4147 4148 4149 4150   
## -9.708076e-02 7.687743e-02 -3.746290e-01 6.499526e-02 2.392570e-01   
## 4151 4152 4153 4154 4155   
## 3.030925e-01 3.061384e-02 2.522737e-01 1.591803e-01 3.974550e-01   
## 4156 4157 4158 4159 4160   
## -1.001387e-01 -2.932020e-02 8.101883e-03 5.957525e-01 9.964778e-02   
## 4161 4162 4163 4164 4165   
## 1.924881e-01 8.245236e-02 -3.937400e-01 -5.749027e-02 -7.887379e-01   
## 4166 4167 4168 4169 4170   
## 1.910268e-01 6.592527e-01 -7.941160e-01 -3.426673e-02 5.570953e-02   
## 4171 4172 4173 4174 4175   
## 2.558913e-01 -4.323387e-02 6.271075e-01 -5.683681e-01 3.643946e-01   
## 4176 4177 4178 4179 4180   
## -4.820714e-01 2.843666e-01 -3.347544e-01 1.921384e-01 1.547765e-01   
## 4181 4182 4183 4184 4185   
## -2.939109e-02 -4.386904e-01 -1.042640e-01 -4.662661e-01 2.330557e-01   
## 4186 4187 4188 4189 4190   
## 6.884111e-02 1.484586e-01 2.952171e-03 2.333403e-01 -6.626180e-02   
## 4191 4192 4193 4194 4195   
## 5.662867e-01 -1.716942e-02 -7.204689e-01 -1.180080e-02 -1.336129e-01   
## 4196 4197 4198 4199 4200   
## 9.943322e-02 1.144104e-01 6.655294e-01 2.126481e-01 -1.249912e-02   
## 4201 4202 4203 4204 4205   
## 2.957222e-01 9.660532e-02 8.573053e-02 1.993298e-01 -3.890770e-01   
## 4206 4207 4208 4209 4210   
## -3.317781e-01 -6.822431e-01 -3.246749e-01 7.416221e-02 -1.534056e-01   
## 4211 4212 4213 4214 4215   
## 6.371597e-01 2.610211e-01 2.183632e-01 -2.058057e-02 1.699680e-01   
## 4216 4217 4218 4219 4220   
## 1.638994e-01 5.942121e-01 -8.180919e-02 1.754761e-01 -3.457801e-01   
## 4221 4222 4223 4224 4225   
## -1.795609e-01 -4.380299e-01 5.434458e-02 -5.240379e-01 -1.716454e-01   
## 4226 4227 4228 4229 4230   
## -3.933130e-01 1.314115e-01 1.038160e-01 1.187228e-01 1.787513e-01   
## 4231 4232 4233 4234 4235   
## -5.109784e-01 -2.650889e-02 1.548109e-01 -3.660473e-01 -8.358682e-01   
## 4236 4237 4238 4239 4240   
## 1.928856e-01 1.227917e-01 -5.322021e-02 -8.819957e-02 9.255207e-02   
## 4241 4242 4243 4244 4245   
## -8.265027e-03 1.829636e-01 3.419055e-01 3.412042e-02 1.472103e-01   
## 4246 4247 4248 4249 4250   
## 3.936039e-01 5.472196e-01 -5.905918e-01 -5.291666e-01 -1.342495e-02   
## 4251 4252 4253 4254 4255   
## 3.020326e-01 -6.421399e-01 -7.633413e-01 1.002507e-01 3.455927e-02   
## 4256 4257 4258 4259 4260   
## -6.111203e-01 9.505867e-03 4.744411e-01 -7.009716e-01 -9.286848e-01   
## 4261 4262 4263 4264 4265   
## -1.040498e-01 2.945023e-01 -5.750831e-01 -8.674378e-02 5.667647e-02   
## 4266 4267 4268 4269 4270   
## -9.572471e-01 -5.761932e-01 -1.697082e-03 3.102940e-01 -6.152238e-01   
## 4271 4272 4273 4274 4275   
## 2.391586e-01 3.108516e-01 1.908813e-01 -6.289375e-02 1.975986e-01   
## 4276 4277 4278 4279 4280   
## 2.925248e-01 6.327259e-01 5.236203e-01 -3.117716e-02 5.956371e-01   
## 4281 4282 4283 4284 4285   
## -7.429669e-01 -3.641849e-01 -3.381539e-02 -6.312257e-01 1.168140e-02   
## 4286 4287 4288 4289 4290   
## -4.604356e-01 -3.552140e-01 4.876102e-01 -4.900604e-02 -8.737156e-01   
## 4291 4292 4293 4294 4295   
## 6.649102e-02 3.263755e-01 2.812192e-01 1.165685e-01 -4.608976e-02   
## 4296 4297 4298 4299 4300   
## 2.222701e-01 4.374428e-02 3.531212e-03 8.490783e-02 3.210925e-01   
## 4301 4302 4303 4304 4305   
## -4.053747e-01 4.169278e-01 4.655358e-01 -3.188308e-02 -5.515780e-01   
## 4306 4307 4308 4309 4310   
## 1.011015e-01 4.010961e-01 -3.490781e-01 -3.976270e-01 -1.189636e-01   
## 4311 4312 4313 4314 4315   
## 1.616032e-01 7.736328e-02 1.333715e-01 -4.781401e-02 6.187762e-01   
## 4316 4317 4318 4319 4320   
## 5.959081e-01 -5.761624e-01 1.632187e-01 1.807491e-01 -2.965596e-01   
## 4321 4322 4323 4324 4325   
## 5.741206e-01 4.154817e-01 -5.254664e-01 -5.444753e-01 -6.882126e-02   
## 4326 4327 4328 4329 4330   
## -7.545723e-02 3.272859e-01 4.488720e-01 6.033789e-01 8.059794e-02   
## 4331 4332 4333 4334 4335   
## 3.226669e-01 4.112692e-01 1.536880e-01 2.782342e-01 -5.607226e-01   
## 4336 4337 4338 4339 4340   
## 5.861147e-02 -3.245943e-01 8.973364e-02 -2.100774e-02 1.326625e-01   
## 4341 4342 4343 4344 4345   
## 2.258242e-01 -7.616256e-01 -3.451843e-01 2.631051e-01 1.805393e-01   
## 4346 4347 4348 4349 4350   
## 1.589648e-01 -4.063071e-01 -2.435666e-02 3.951758e-01 1.805415e-01   
## 4351 4352 4353 4354 4355   
## 1.446327e-01 3.854631e-01 5.893995e-01 4.638977e-01 8.749932e-02   
## 4356 4357 4358 4359 4360   
## 1.038967e-02 3.645578e-01 -6.147861e-02 9.835534e-03 4.969428e-01   
## 4361 4362 4363 4364 4365   
## 1.244971e-01 -3.356518e-01 -6.224409e-01 2.088630e-01 1.216921e-01   
## 4366 4367 4368 4369 4370   
## 1.966244e-01 6.401677e-02 -8.125457e-02 8.760426e-02 2.999171e-01   
## 4371 4372 4373 4374 4375   
## 5.305030e-01 8.541323e-03 1.939689e-01 -5.488600e-01 4.497625e-01   
## 4376 4377 4378 4379 4380   
## -7.582533e-02 -4.967252e-01 1.465611e-01 -1.165905e+00 2.190856e-01   
## 4381 4382 4383 4384 4385   
## 6.035373e-02 5.074338e-01 1.436417e-01 3.477714e-01 1.626712e-01   
## 4386 4387 4388 4389 4390   
## -3.929136e-01 2.589479e-01 -7.739479e-01 -5.138370e-01 -2.972232e-02   
## 4391 4392 4393 4394 4395   
## -8.036095e-02 1.088801e-01 3.983224e-01 3.476332e-01 -8.104591e-01   
## 4396 4397 4398 4399 4400   
## 2.152454e-01 4.793811e-01 -4.348230e-01 1.604723e-01 1.495676e-01   
## 4401 4402 4403 4404 4405   
## -2.719156e-02 -6.830010e-02 5.830474e-01 1.326807e-01 -8.102588e-03   
## 4406 4407 4408 4409 4410   
## -4.232897e-01 1.205475e-01 -3.672479e-02 4.571263e-01 -4.174348e-01   
## 4411 4412 4413 4414 4415   
## -1.051976e+00 1.468689e-01 9.635344e-02 4.389310e-01 4.479295e-01   
## 4416 4417 4418 4419 4420   
## 2.691149e-01 -6.407904e-01 3.067425e-01 4.387040e-01 1.849741e-01   
## 4421 4422 4423 4424 4425   
## -5.047210e-01 -1.979978e-01 5.219808e-02 5.096042e-01 1.029995e-01   
## 4426 4427 4428 4429 4430   
## 6.469619e-01 4.462023e-01 5.342580e-01 2.122761e-01 2.236479e-01   
## 4431 4432 4433 4434 4435   
## 4.680551e-02 5.049235e-02 1.542174e-01 -9.980994e-03 -3.708860e-01   
## 4436 4437 4438 4439 4440   
## 3.592261e-01 -8.119984e-01 5.857779e-02 -3.112399e-01 1.401907e-01   
## 4441 4442 4443 4444 4445   
## -3.940951e-01 1.906943e-01 -7.021315e-01 5.096934e-01 -1.652601e-01   
## 4446 4447 4448 4449 4450   
## -3.081974e-01 1.774696e-01 -5.900591e-01 1.017984e-02 3.401223e-01   
## 4451 4452 4453 4454 4455   
## -5.812828e-01 -2.508261e-01 3.724830e-01 4.715794e-01 -3.936115e-01   
## 4456 4457 4458 4459 4460   
## -4.058176e-01 -5.757140e-01 3.762865e-01 -3.650909e-01 1.712550e-01   
## 4461 4462 4463 4464 4465   
## -7.507866e-01 9.922228e-02 3.569714e-01 -6.094027e-01 -1.354182e-02   
## 4466 4467 4468 4469 4470   
## 6.241702e-01 8.268009e-02 1.780846e-01 -7.985639e-01 1.799074e-01   
## 4471 4472 4473 4474 4475   
## 4.466224e-01 -1.638776e-02 -3.956881e-01 2.741770e-01 -3.760504e-01   
## 4476 4477 4478 4479 4480   
## -4.635155e-02 5.979000e-01 -1.150396e-01 2.828273e-01 1.556094e-01   
## 4481 4482 4483 4484 4485   
## -6.493954e-01 7.658964e-02 2.225986e-01 2.236356e-01 1.115583e-02   
## 4486 4487 4488 4489 4490   
## 8.081272e-02 5.680445e-01 -4.000084e-01 -1.787569e-01 2.828592e-01   
## 4491 4492 4493 4494 4495   
## 1.542087e-01 -4.933252e-01 7.075197e-02 -3.372351e-03 -5.760011e-01   
## 4496 4497 4498 4499 4500   
## -4.672999e-01 3.348673e-02 1.861187e-02 -3.169105e-02 2.557196e-01   
## 4501 4502 4503 4504 4505   
## 1.169082e-01 -4.180940e-01 1.792240e-01 2.273727e-01 1.206652e-02   
## 4506 4507 4508 4509 4510   
## -1.100342e+00 5.043933e-01 5.307419e-01 -1.497936e-01 -2.527615e-01   
## 4511 4512 4513 4514 4515   
## -3.283027e-01 2.216375e-01 -8.551844e-01 1.987817e-01 6.134553e-02   
## 4516 4517 4518 4519 4520   
## 4.963409e-01 -5.147335e-01 3.545641e-01 4.581300e-01 -7.686209e-01   
## 4521 4522 4523 4524 4525   
## 3.377610e-01 3.117690e-01 -7.051636e-02 -4.360407e-01 -4.384920e-01   
## 4526 4527 4528 4529 4530   
## 1.487932e-01 2.785830e-01 -4.540735e-01 -4.095353e-01 4.719798e-01   
## 4531 4532 4533 4534 4535   
## -4.555850e-01 -9.755318e-01 1.744255e-01 -5.250339e-01 4.772612e-01   
## 4536 4537 4538 4539 4540   
## -8.718424e-03 -3.421060e-01 3.313330e-01 -4.519648e-01 2.457351e-01   
## 4541 4542 4543 4544 4545   
## -4.856568e-01 4.657089e-01 -3.781781e-02 2.536378e-01 2.127920e-01   
## 4546 4547 4548 4549 4550   
## -6.208922e-03 4.076184e-01 3.534423e-02 -4.256410e-01 1.460671e-01   
## 4551 4552 4553 4554 4555   
## -3.886897e-01 1.543774e-01 5.960758e-01 3.457298e-01 -6.696551e-02   
## 4556 4557 4558 4559 4560   
## -4.289229e-01 -8.092060e-01 -2.944998e-02 1.402641e-01 4.650494e-01   
## 4561 4562 4563 4564 4565   
## 3.244501e-01 -7.546582e-01 2.174670e-01 4.758399e-01 3.351352e-01   
## 4566 4567 4568 4569 4570   
## -1.128548e-01 2.484629e-01 2.433037e-01 1.185869e-01 2.988908e-01   
## 4571 4572 4573 4574 4575   
## 3.764795e-01 4.620456e-01 -9.889303e-02 -4.611010e-02 -1.074544e-01   
## 4576 4577 4578 4579 4580   
## -1.280017e-01 -6.815448e-02 -2.325465e-01 -1.687948e-02 4.008511e-01   
## 4581 4582 4583 4584 4585   
## 4.460204e-01 6.264149e-02 1.305755e-01 2.206520e-01 1.239767e-01   
## 4586 4587 4588 4589 4590   
## 1.450688e-01 -5.408525e-01 -6.814013e-02 5.449334e-01 -3.703538e-01   
## 4591 4592 4593 4594 4595   
## 2.960417e-01 1.071909e-01 6.638059e-02 3.695366e-01 2.688373e-02   
## 4596 4597 4598 4599 4600   
## 2.787405e-01 2.759487e-01 -2.332138e-02 1.156142e-01 3.827684e-01   
## 4601 4602 4603 4604 4605   
## 1.785482e-01 2.340859e-01 -9.619135e-01 -1.088379e-02 1.489792e-02   
## 4606 4607 4608 4609 4610   
## -6.243594e-01 1.539892e-01 -1.812461e-01 3.002544e-01 2.241701e-01   
## 4611 4612 4613 4614 4615   
## 7.316041e-01 -4.293212e-01 -4.391720e-02 3.231722e-01 3.263103e-01   
## 4616 4617 4618 4619 4620   
## 2.888242e-01 -3.420807e-01 5.829092e-01 3.575199e-01 1.400036e-01   
## 4621 4622 4623 4624 4625   
## 1.723079e-01 2.062724e-01 2.337459e-01 -2.998424e-01 -8.315196e-01   
## 4626 4627 4628 4629 4630   
## -3.984724e-02 1.585599e-01 -3.992424e-02 -1.325049e-02 -4.425592e-02   
## 4631 4632 4633 4634 4635   
## -3.433875e-01 6.479430e-01 -4.268770e-01 3.922573e-01 -1.073138e+00   
## 4636 4637 4638 4639 4640   
## 4.594195e-01 3.069166e-01 -4.772520e-01 6.122634e-01 3.260861e-01   
## 4641 4642 4643 4644 4645   
## 5.920348e-01 2.077851e-02 1.367900e-01 -5.243677e-01 1.234262e-01   
## 4646 4647 4648 4649 4650   
## -6.996596e-01 5.801100e-02 2.703767e-01 5.121233e-01 3.056504e-01   
## 4651 4652 4653 4654 4655   
## 3.284341e-01 1.437670e-01 -8.112743e-01 -1.228323e-01 9.582653e-02   
## 4656 4657 4658 4659 4660   
## -3.095176e-01 -4.053949e-01 -3.360449e-02 1.566860e-01 1.171501e-01   
## 4661 4662 4663 4664 4665   
## 3.796119e-01 -2.820829e-02 1.211001e-01 -4.017188e-01 2.738203e-01   
## 4666 4667 4668 4669 4670   
## -4.301789e-01 1.840680e-01 -6.118363e-01 1.607127e-01 -4.246068e-01   
## 4671 4672 4673 4674 4675   
## -2.785593e-01 -6.764595e-02 3.414514e-01 -2.954102e-01 -4.753213e-01   
## 4676 4677 4678 4679 4680   
## 6.091078e-01 -9.189476e-01 2.737859e-01 3.584889e-02 -4.324805e-01   
## 4681 4682 4683 4684 4685   
## 2.748425e-01 1.825712e-01 2.502283e-01 -5.715825e-01 4.733476e-01   
## 4686 4687 4688 4689 4690   
## -2.347506e-02 1.856789e-01 6.532198e-02 1.941726e-01 2.408635e-01   
## 4691 4692 4693 4694 4695   
## -8.680564e-01 1.111791e-01 4.129555e-01 6.458902e-01 2.977477e-01   
## 4696 4697 4698 4699 4700   
## -4.822278e-01 3.446990e-01 4.847366e-01 -5.926827e-01 2.629178e-01   
## 4701 4702 4703 4704 4705   
## -4.229462e-02 3.504971e-01 1.966107e-01 6.409314e-02 2.563543e-01   
## 4706 4707 4708 4709 4710   
## 2.281710e-01 -6.279581e-02 -5.817600e-02 -8.190345e-02 3.337529e-01   
## 4711 4712 4713 4714 4715   
## 1.516061e-01 -5.008828e-01 1.982557e-01 -8.073472e-01 1.791538e-02   
## 4716 4717 4718 4719 4720   
## -4.281435e-01 2.060302e-02 -6.282783e-01 2.788080e-02 -2.240990e-02   
## 4721 4722 4723 4724 4725   
## 1.528521e-02 1.081790e-01 5.035115e-01 7.741563e-02 -1.180792e-01   
## 4726 4727 4728 4729 4730   
## 4.526258e-01 -9.475410e-01 1.791626e-01 -9.695594e-02 1.302728e-03   
## 4731 4732 4733 4734 4735   
## -3.322180e-01 5.208223e-01 -6.685234e-01 6.596051e-01 -3.526650e-02   
## 4736 4737 4738 4739 4740   
## 2.551750e-02 1.597713e-02 5.470200e-01 -3.400259e-01 3.404361e-02   
## 4741 4742 4743 4744 4745   
## 7.626478e-02 -6.771900e-01 2.383202e-01 -8.072008e-01 9.060965e-02   
## 4746 4747 4748 4749 4750   
## -4.254084e-01 -5.552377e-02 4.683902e-01 1.305053e-01 -6.565736e-01   
## 4751 4752 4753 4754 4755   
## -6.216988e-02 -3.557168e-01 -1.056159e-01 -8.854720e-02 4.114108e-01   
## 4756 4757 4758 4759 4760   
## 2.457086e-01 -6.036788e-01 2.276129e-01 8.023448e-03 1.091032e-01   
## 4761 4762 4763 4764 4765   
## -7.217971e-02 2.680620e-02 1.153032e-01 -3.603319e-01 -1.379973e-01   
## 4766 4767 4768 4769 4770   
## -7.084093e-01 2.946491e-01 -4.799714e-01 5.718158e-01 3.256053e-01   
## 4771 4772 4773 4774 4775   
## 1.264721e-02 6.089336e-01 5.093217e-01 -5.470308e-02 5.768264e-01   
## 4776 4777 4778 4779 4780   
## 4.307430e-03 2.417203e-01 -4.583441e-01 1.417098e-01 2.733715e-01   
## 4781 4782 4783 4784 4785   
## 4.864225e-02 -4.350842e-01 5.853968e-01 1.641868e-01 -6.945818e-01   
## 4786 4787 4788 4789 4790   
## 2.651996e-01 1.828858e-01 -1.002850e+00 2.580721e-01 -2.836276e-02   
## 4791 4792 4793 4794 4795   
## 5.001411e-01 1.737153e-01 -1.875114e-01 -1.957103e-01 1.399149e-01   
## 4796 4797 4798 4799 4800   
## 3.684753e-01 1.486881e-01 -1.382210e-02 2.263347e-02 2.781816e-01   
## 4801 4802 4803 4804 4805   
## -3.489058e-02 2.255791e-01 -3.955780e-01 -5.938325e-01 -6.890516e-01   
## 4806 4807 4808 4809 4810   
## 3.675942e-01 -4.736060e-01 -6.526732e-01 1.406595e-02 1.940009e-01   
## 4811 4812 4813 4814 4815   
## 1.281109e-01 -1.084627e+00 2.869296e-02 1.833478e-01 -2.577688e-02   
## 4816 4817 4818 4819 4820   
## -7.178750e-01 2.485835e-01 5.240792e-01 -2.450609e-01 -4.493221e-01   
## 4821 4822 4823 4824 4825   
## 1.582484e-01 3.447043e-01 3.677028e-02 2.141297e-01 8.715474e-02   
## 4826 4827 4828 4829 4830   
## 9.257901e-02 -7.664833e-02 2.521624e-01 2.276521e-01 -4.244136e-01   
## 4831 4832 4833 4834 4835   
## 1.583896e-01 -3.811888e-01 2.508135e-01 5.049874e-01 -6.346244e-01   
## 4836 4837 4838 4839 4840   
## -1.231628e-01 8.432078e-03 1.281817e-01 4.912491e-01 -4.852368e-01   
## 4841 4842 4843 4844 4845   
## -2.536906e-01 3.406799e-01 2.329016e-01 -3.579462e-01 -4.124245e-02   
## 4846 4847 4848 4849 4850   
## 1.802500e-01 2.877979e-01 4.076903e-02 -5.159964e-01 3.235781e-01   
## 4851 4852 4853 4854 4855   
## -1.116740e-01 1.287344e-01 1.122063e-01 2.084464e-01 -3.988350e-01   
## 4856 4857 4858 4859 4860   
## -6.236816e-02 1.342252e-01 3.561794e-01 4.511990e-01 4.899094e-01   
## 4861 4862 4863 4864 4865   
## -4.831107e-01 5.625840e-01 6.223920e-02 5.469085e-02 -6.540879e-02   
## 4866 4867 4868 4869 4870   
## 1.729704e-01 -7.195328e-01 -6.940326e-01 -4.376557e-01 5.942465e-02   
## 4871 4872 4873 4874 4875   
## 3.581776e-01 2.133784e-01 -2.536262e-02 3.388287e-01 -1.880813e-02   
## 4876 4877 4878 4879 4880   
## -5.455614e-01 4.093016e-01 1.250742e-01 1.332228e-01 7.446536e-02   
## 4881 4882 4883 4884 4885   
## 2.973160e-01 1.979083e-01 2.448626e-01 4.525464e-01 6.391807e-01   
## 4886 4887 4888 4889 4890   
## -6.487113e-01 1.974909e-01 2.661216e-01 3.039420e-01 2.985159e-01   
## 4891 4892 4893 4894 4895   
## -6.143301e-01 -4.793671e-01 -4.513477e-01 -4.215907e-01 1.386096e-01   
## 4896 4897 4898 4899 4900   
## -3.225616e-01 4.820806e-01 -1.836014e-02 5.198890e-02 -4.074970e-02   
## 4901 4902 4903 4904 4905   
## -3.940248e-01 -2.140593e-02 -8.960706e-01 -8.740839e-03 -5.050269e-01   
## 4906 4907 4908 4909 4910   
## 8.485949e-02 -1.583007e-01 3.217694e-01 5.812078e-01 1.538016e-01   
## 4911 4912 4913 4914 4915   
## -7.502620e-02 -3.035380e-02 -1.239937e-01 4.342416e-01 3.034000e-02   
## 4916 4917 4918 4919 4920   
## 1.176426e-01 -4.984015e-01 1.545033e-01 -6.334952e-02 1.922124e-02   
## 4921 4922 4923 4924 4925   
## -6.233779e-01 -8.244129e-03 3.924395e-01 6.018092e-01 3.006835e-01   
## 4926 4927 4928 4929 4930   
## 4.258727e-01 1.030843e-01 1.083428e-01 3.197399e-01 1.126147e-01   
## 4931 4932 4933 4934 4935   
## -5.354971e-01 1.826152e-01 5.987612e-01 -7.657114e-01 -5.702637e-01   
## 4936 4937 4938 4939 4940   
## -1.329530e-01 2.471530e-01 3.189158e-02 -3.589616e-01 -4.143800e-01   
## 4941 4942 4943 4944 4945   
## 3.920436e-01 -4.731591e-01 -3.081405e-01 5.949566e-01 5.817032e-01   
## 4946 4947 4948 4949 4950   
## 3.006832e-02 -3.074369e-01 -4.516746e-01 -2.978097e-01 2.041788e-01   
## 4951 4952 4953 4954 4955   
## 2.604938e-01 -7.916145e-01 -5.015155e-01 3.149195e-01 2.916412e-01   
## 4956 4957 4958 4959 4960   
## 9.073616e-02 -4.901590e-01 -4.876914e-01 3.049941e-01 -5.539852e-01   
## 4961 4962 4963 4964 4965   
## 1.592271e-01 1.685696e-01 3.632427e-01 1.940649e-01 -5.782588e-02   
## 4966 4967 4968 4969 4970   
## 5.443981e-01 -6.243329e-01 1.434959e-01 1.260560e-01 1.046716e-01   
## 4971 4972 4973 4974 4975   
## -6.030957e-01 3.015507e-02 1.821876e-01 -5.052043e-01 -6.797705e-01   
## 4976 4977 4978 4979 4980   
## -6.240979e-01 6.038974e-02 -1.001068e-01 5.282983e-01 -6.667170e-02   
## 4981 4982 4983 4984 4985   
## 8.299749e-02 2.981466e-01 3.218300e-01 -8.038854e-01 2.494470e-01   
## 4986 4987 4988 4989 4990   
## -5.875804e-02 -4.460043e-01 -3.907854e-01 3.473399e-03 -5.566591e-01   
## 4991 4992 4993 4994 4995   
## 2.263754e-01 4.502803e-02 3.106076e-01 -7.500023e-01 4.983908e-02   
## 4996 4997 4998 4999 5000   
## -4.281767e-01 2.451169e-01 -7.239709e-01 -6.451453e-01 1.280304e-01   
## 5001 5002 5003 5004 5005   
## 7.754263e-02 2.130966e-02 1.102980e-02 4.102071e-01 1.665017e-01   
## 5006 5007 5008 5009 5010   
## 4.503428e-01 2.331973e-01 2.583338e-01 -8.332680e-01 1.475832e-01   
## 5011 5012 5013 5014 5015   
## -1.203476e-01 7.415982e-01 5.036690e-02 3.689207e-01 -1.088260e-01   
## 5016 5017 5018 5019 5020   
## -3.985214e-01 -4.124509e-02 5.472987e-01 1.016201e-01 -3.361565e-01   
## 5021 5022 5023 5024 5025   
## -1.353819e-02 3.118549e-01 -3.980877e-01 5.698872e-01 6.234187e-01   
## 5026 5027 5028 5029 5030   
## 2.406050e-01 1.899308e-01 4.800706e-01 -3.283582e-01 -3.442109e-01   
## 5031 5032 5033 5034 5035   
## 1.733969e-01 -3.031992e-01 4.648924e-01 1.021462e-01 7.735046e-02   
## 5036 5037 5038 5039 5040   
## -3.993312e-01 4.378332e-01 3.459169e-01 3.622002e-01 4.320300e-01   
## 5041 5042 5043 5044 5045   
## 2.908570e-01 -7.768788e-01 -8.381281e-01 2.836456e-01 3.079396e-01   
## 5046 5047 5048 5049 5050   
## 5.232597e-01 -9.960208e-03 5.384835e-02 -1.244308e-01 6.142556e-01   
## 5051 5052 5053 5054 5055   
## 2.225791e-01 -4.919840e-01 3.222740e-01 4.792381e-02 -7.208293e-01   
## 5056 5057 5058 5059 5060   
## -4.714096e-01 -6.520523e-01 1.876722e-01 1.786130e-01 1.286653e-01   
## 5061 5062 5063 5064 5065   
## -4.915798e-02 -4.074572e-01 -6.278197e-01 5.366703e-01 6.495040e-01   
## 5066 5067 5068 5069 5070   
## 3.846161e-01 -1.883765e-02 4.012376e-01 -5.752108e-01 6.939591e-02   
## 5071 5072 5073 5074 5075   
## 7.182760e-02 5.001051e-01 1.563434e-01 -5.076669e-02 7.370619e-02   
## 5076 5077 5078 5079 5080   
## 1.198414e-01 5.436539e-02 3.032697e-01 -9.274191e-01 1.962707e-01   
## 5081 5082 5083 5084 5085   
## -9.704718e-02 3.962776e-01 -3.580361e-01 -6.050354e-01 1.591055e-01   
## 5086 5087 5088 5089 5090   
## 1.252358e-01 8.134910e-02 7.949319e-02 -1.933563e-01 3.143893e-01   
## 5091 5092 5093 5094 5095   
## -2.917184e-01 -8.712150e-01 -4.536548e-01 4.673582e-01 4.718884e-02   
## 5096 5097 5098 5099 5100   
## 3.453410e-01 6.498720e-02 -6.353261e-01 2.126714e-01 2.023261e-01   
## 5101 5102 5103 5104 5105   
## 2.481082e-01 -1.951717e-01 6.070758e-01 -6.715728e-01 -8.224448e-01   
## 5106 5107 5108 5109 5110   
## -6.971364e-02 3.334384e-01 -8.487101e-02 -4.520500e-01 2.541469e-02   
## 5111 5112 5113 5114 5115   
## 3.417387e-01 5.329210e-01 -7.460282e-01 2.546788e-01 2.089736e-01   
## 5116 5117 5118 5119 5120   
## -4.537983e-01 2.337473e-02 -2.997588e-01 1.703912e-01 -9.055222e-01   
## 5121 5122 5123 5124 5125   
## 4.504180e-01 6.088147e-01 -6.374829e-01 -5.094968e-01 4.887611e-02   
## 5126 5127 5128 5129 5130   
## -3.665669e-01 -3.943908e-01 1.850749e-01 6.891477e-01 2.829074e-01   
## 5131 5132 5133 5134 5135   
## 1.670289e-01 -3.868955e-03 7.045557e-01 2.253717e-01 6.617679e-02   
## 5136 5137 5138 5139 5140   
## 4.352967e-02 4.720004e-01 2.892948e-02 5.891428e-01 2.870052e-01   
## 5141 5142 5143 5144 5145   
## 1.145423e-01 -2.155924e-02 1.708996e-01 1.792845e-01 2.508401e-02   
## 5146 5147 5148 5149 5150   
## 4.784063e-01 -4.251402e-01 4.153698e-01 1.767424e-01 6.727511e-02   
## 5151 5152 5153 5154 5155   
## -7.024828e-02 6.193113e-01 5.254852e-01 1.429570e-01 1.204070e-01   
## 5156 5157 5158 5159 5160   
## 2.877402e-01 3.707683e-01 -3.571644e-01 1.854596e-01 -6.084718e-02   
## 5161 5162 5163 5164 5165   
## -3.868713e-01 2.190084e-01 1.921421e-01 3.037881e-01 -4.214959e-02   
## 5166 5167 5168 5169 5170   
## 3.141658e-01 -3.670966e-01 1.051114e-01 2.281548e-01 -4.526564e-01   
## 5171 5172 5173 5174 5175   
## 2.526545e-01 -5.555195e-01 -7.170106e-02 -1.142557e-01 1.599964e-01   
## 5176 5177 5178 5179 5180   
## -5.188901e-01 8.066221e-02 1.871195e-02 -4.430565e-01 5.202483e-01   
## 5181 5182 5183 5184 5185   
## 5.828324e-01 3.851624e-01 6.272055e-01 1.915700e-01 -7.856006e-02   
## 5186 5187 5188 5189 5190   
## -5.113388e-02 -5.339127e-01 -1.686488e-01 2.365334e-01 8.452038e-02   
## 5191 5192 5193 5194 5195   
## -6.622829e-01 2.897819e-01 2.032713e-01 1.688720e-01 1.187530e-01   
## 5196 5197 5198 5199 5200   
## 3.864118e-01 3.757602e-01 2.934424e-01 -5.732291e-02 -5.434610e-01   
## 5201 5202 5203 5204 5205   
## 1.239085e-01 2.943583e-02 -8.154894e-01 -3.290423e-01 -7.953640e-02   
## 5206 5207 5208 5209 5210   
## 7.017176e-01 -4.733349e-01 -8.446455e-01 -8.301107e-01 2.731853e-01   
## 5211 5212 5213 5214 5215   
## 1.952552e-01 3.951530e-02 2.870079e-01 3.356780e-01 -3.246843e-02   
## 5216 5217 5218 5219 5220   
## 4.622301e-01 1.695970e-01 1.864797e-01 6.901776e-01 3.738491e-01   
## 5221 5222 5223 5224 5225   
## -5.581841e-01 9.536475e-02 -2.947181e-01 1.681398e-01 -3.995437e-01   
## 5226 5227 5228 5229 5230   
## 3.343753e-01 5.594454e-01 2.762781e-01 2.585607e-01 1.242625e-01   
## 5231 5232 5233 5234 5235   
## 2.763896e-02 1.498550e-01 5.978554e-02 -4.212204e-01 4.523088e-01   
## 5236 5237 5238 5239 5240   
## 4.128652e-01 -6.492833e-02 -3.518839e-01 -4.015969e-01 1.226731e-01   
## 5241 5242 5243 5244 5245   
## -9.175141e-02 6.417943e-01 -3.694901e-01 2.141531e-01 2.654540e-01   
## 5246 5247 5248 5249 5250   
## -4.694780e-02 5.049697e-01 -8.003333e-01 -4.257264e-01 -8.474612e-01   
## 5251 5252 5253 5254 5255   
## 5.194882e-01 4.637729e-01 2.626213e-01 -1.133258e-02 2.516558e-01   
## 5256 5257 5258 5259 5260   
## 2.072234e-01 2.153945e-01 4.726630e-02 1.612593e-01 -1.302340e-01   
## 5261 5262 5263 5264 5265   
## 3.979465e-01 -8.607210e-01 3.831108e-01 -3.328869e-01 -1.175672e-01   
## 5266 5267 5268 5269 5270   
## 2.066424e-01 -6.506022e-01 -5.048703e-02 -3.751149e-01 2.470433e-01   
## 5271 5272 5273 5274 5275   
## -7.891303e-02 2.658495e-01 -1.800487e-01 -2.366537e-01 1.957349e-01   
## 5276 5277 5278 5279 5280   
## -4.555077e-01 -5.557664e-02 -5.003885e-01 1.792621e-01 -3.465618e-01   
## 5281 5282 5283 5284 5285   
## 1.495597e-01 -7.795399e-02 1.407525e-01 1.110350e-01 3.084257e-01   
## 5286 5287 5288 5289 5290   
## 8.332505e-02 3.148882e-01 7.356379e-02 -2.789651e-02 3.839216e-01   
## 5291 5292 5293 5294 5295   
## -4.137105e-01 -3.579516e-01 -5.020112e-01 3.254308e-01 1.697004e-01   
## 5296 5297 5298 5299 5300   
## 5.241092e-01 6.559641e-02 -4.209781e-01 6.887010e-01 -6.869047e-02   
## 5301 5302 5303 5304 5305   
## -6.866208e-02 5.848204e-02 -8.456425e-01 -6.890663e-01 3.230319e-01   
## 5306 5307 5308 5309 5310   
## -7.785739e-02 -5.958932e-01 3.036129e-01 -6.897813e-01 -3.017458e-04   
## 5311 5312 5313 5314 5315   
## 9.990215e-02 -6.189164e-02 6.323837e-02 2.440944e-01 2.665213e-01   
## 5316 5317 5318 5319 5320   
## 1.920319e-01 1.113243e-01 -8.262298e-01 6.132442e-03 2.743591e-02   
## 5321 5322 5323 5324 5325   
## -6.079812e-01 -4.444216e-01 4.526813e-02 1.236183e-02 -4.495522e-01   
## 5326 5327 5328 5329 5330   
## -7.927851e-01 1.204515e-01 1.841023e-01 2.204228e-01 1.145955e-01   
## 5331 5332 5333 5334 5335   
## 4.684078e-01 1.622659e-01 -2.872390e-01 -6.618924e-01 3.370362e-02   
## 5336 5337 5338 5339 5340   
## -1.792230e-01 -5.813441e-01 -1.026682e-02 1.434750e-03 2.798029e-01   
## 5341 5342 5343 5344 5345   
## 3.385176e-03 -5.869574e-03 -4.435505e-01 4.715961e-01 3.201188e-01   
## 5346 5347 5348 5349 5350   
## 6.853606e-01 3.021781e-01 1.932061e-01 -5.649080e-02 1.405449e-01   
## 5351 5352 5353 5354 5355   
## -5.973757e-01 -4.558027e-01 1.730080e-01 -6.963587e-02 -5.791063e-02   
## 5356 5357 5358 5359 5360   
## -4.009506e-01 -1.080893e-01 -1.630640e-02 -6.529798e-02 -3.602898e-01   
## 5361 5362 5363 5364 5365   
## 1.081950e-01 5.799465e-01 -7.270129e-01 4.160253e-01 5.969816e-02   
## 5366 5367 5368 5369 5370   
## -3.955906e-01 -6.459507e-01 1.491086e-01 3.958374e-01 -5.911155e-02   
## 5371 5372 5373 5374 5375   
## 3.034877e-01 -3.510577e-01 -5.309932e-01 8.254003e-02 -5.011229e-01   
## 5376 5377 5378 5379 5380   
## 4.530970e-01 -6.675557e-01 3.624731e-01 3.235971e-01 -8.321241e-01   
## 5381 5382 5383 5384 5385   
## 2.828704e-01 -2.644225e-01 4.389527e-01 -4.811177e-02 -3.962908e-01   
## 5386 5387 5388 5389 5390   
## 3.576569e-01 -3.670234e-01 7.416402e-02 -3.987333e-01 1.862457e-01   
## 5391 5392 5393 5394 5395   
## -5.698568e-03 4.119844e-01 2.625980e-02 6.735397e-02 1.672243e-01   
## 5396 5397 5398 5399 5400   
## 2.206035e-01 3.916692e-01 1.168146e-01 -1.991199e-01 -4.227873e-03   
## 5401 5402 5403 5404 5405   
## -4.143499e-01 1.174639e-01 -5.104028e-01 2.102430e-01 5.974569e-01   
## 5406 5407 5408 5409 5410   
## -8.077242e-01 3.922785e-01 2.548632e-01 1.738842e-01 5.853211e-01   
## 5411 5412 5413 5414 5415   
## 8.877095e-02 -4.724441e-02 1.014438e-02 -2.525401e-01 -4.085123e-01   
## 5416 5417 5418 5419 5420   
## 1.687043e-01 5.181463e-01 1.386788e-01 4.089462e-01 -3.915749e-01   
## 5421 5422 5423 5424 5425   
## -1.470530e-01 -4.701796e-01 9.764571e-02 -5.878361e-01 2.361895e-01   
## 5426 5427 5428 5429 5430   
## 3.983525e-01 1.830070e-01 2.159540e-01 -4.983497e-01 -4.748380e-01   
## 5431 5432 5433 5434 5435   
## -3.826924e-01 2.805330e-01 -1.149837e+00 2.726024e-03 2.492394e-01   
## 5436 5437 5438 5439 5440   
## 4.318465e-01 2.067743e-01 -8.118083e-01 3.505227e-01 3.052663e-01   
## 5441 5442 5443 5444 5445   
## -1.862943e-02 -2.830501e-01 9.660637e-02 1.212829e-01 -8.546963e-02   
## 5446 5447 5448 5449 5450   
## -3.522431e-01 1.628185e-01 -6.080709e-01 2.244426e-01 -6.650826e-01   
## 5451 5452 5453 5454 5455   
## 6.247349e-01 2.232009e-03 -2.320874e-02 7.704832e-02 -6.390329e-01   
## 5456 5457 5458 5459 5460   
## 9.609602e-02 2.335599e-01 1.252160e-01 1.851882e-01 -3.824728e-01   
## 5461 5462 5463 5464 5465   
## 3.736216e-01 9.194398e-02 5.066185e-01 2.497342e-01 2.917229e-01   
## 5466 5467 5468 5469 5470   
## 7.127179e-01 -8.371958e-01 -3.157683e-01 -9.046089e-02 1.014843e-01   
## 5471 5472 5473 5474 5475   
## 4.982851e-01 4.143808e-01 -3.049482e-01 -7.855296e-01 -6.783199e-01   
## 5476 5477 5478 5479 5480   
## 1.377782e-01 3.588141e-01 -5.859631e-03 8.761400e-02 3.135752e-01   
## 5481 5482 5483 5484 5485   
## 3.344146e-01 2.935200e-01 2.301496e-01 -2.078865e-02 -2.646461e-01   
## 5486 5487 5488 5489 5490   
## -4.908239e-01 -5.296584e-01 1.213217e-02 -7.450989e-01 -5.874358e-01   
## 5491 5492 5493 5494 5495   
## -3.802152e-01 -1.350777e-01 3.325335e-01 -4.369960e-01 8.126511e-03   
## 5496 5497 5498 5499 5500   
## -6.211080e-01 2.265248e-01 1.922811e-01 1.038859e-01 -7.063825e-02   
## 5501 5502 5503 5504 5505   
## -6.711755e-01 5.220488e-01 -3.557112e-02 3.959990e-01 3.382745e-02   
## 5506 5507 5508 5509 5510   
## 3.222314e-01 3.865456e-02 -5.985888e-01 6.697267e-02 -5.784643e-01   
## 5511 5512 5513 5514 5515   
## 3.050233e-01 2.198266e-01 1.061726e-01 -3.918260e-01 5.481847e-01   
## 5516 5517 5518 5519 5520   
## -8.954794e-02 5.736595e-02 8.240356e-02 1.952082e-01 9.665617e-03   
## 5521 5522 5523 5524 5525   
## 1.883158e-01 2.505827e-01 4.574358e-02 1.532749e-02 6.777599e-01   
## 5526 5527 5528 5529 5530   
## 4.092659e-01 1.358679e-02 -5.449226e-01 6.113595e-02 -3.345312e-01   
## 5531 5532 5533 5534 5535   
## 6.883346e-02 -8.233408e-01 -7.882211e-01 -5.297965e-02 4.459191e-01   
## 5536 5537 5538 5539 5540   
## -8.222016e-01 5.194811e-01 2.718742e-01 -3.011803e-01 -6.615538e-02   
## 5541 5542 5543 5544 5545   
## -3.902464e-01 1.237160e-01 1.732273e-01 4.481250e-02 -5.292971e-01   
## 5546 5547 5548 5549 5550   
## -6.197676e-03 -1.240009e-01 -4.960102e-01 5.847529e-01 -1.997310e-02   
## 5551 5552 5553 5554 5555   
## 3.942102e-01 1.191254e-01 1.878163e-01 3.065454e-01 1.874961e-01   
## 5556 5557 5558 5559 5560   
## 1.250708e-01 -5.753144e-01 2.562226e-03 1.676683e-01 2.429561e-01   
## 5561 5562 5563 5564 5565   
## -3.608241e-01 4.340731e-01 1.571636e-01 -7.744248e-02 -3.517269e-01   
## 5566 5567 5568 5569 5570   
## 8.409049e-02 -1.526293e-01 -5.425819e-01 -1.542265e-03 -2.387976e-02   
## 5571 5572 5573 5574 5575   
## -1.107628e+00 -5.597291e-03 -9.981498e-01 6.936078e-03 -5.100413e-01   
## 5576 5577 5578 5579 5580   
## -4.328949e-01 -7.640889e-01 7.706971e-02 3.496105e-01 -5.999577e-01   
## 5581 5582 5583 5584 5585   
## -1.005284e+00 1.486301e-01 -3.210369e-01 7.051189e-02 1.074476e-01   
## 5586 5587 5588 5589 5590   
## 5.558683e-01 1.864494e-01 -3.736218e-02 -4.349856e-01 -3.340913e-02   
## 5591 5592 5593 5594 5595   
## -4.730377e-01 -4.767295e-01 2.132027e-01 2.942856e-01 -6.688427e-01   
## 5596 5597 5598 5599 5600   
## 5.155766e-01 3.472715e-01 1.506351e-01 -6.344204e-01 1.030415e-01   
## 5601 5602 5603 5604 5605   
## -5.365602e-01 -3.482508e-01 3.693106e-01 2.828208e-02 -1.728160e-01   
## 5606 5607 5608 5609 5610   
## 1.023403e-01 -7.808292e-01 8.782041e-02 1.934790e-01 1.665326e-01   
## 5611 5612 5613 5614 5615   
## 5.915289e-01 1.449415e-01 -3.604232e-01 -4.491925e-01 1.811919e-01   
## 5616 5617 5618 5619 5620   
## 3.399626e-01 1.589701e-01 2.781407e-01 6.743742e-01 -4.244307e-01   
## 5621 5622 5623 5624 5625   
## -7.586939e-01 -5.264268e-01 3.883708e-01 -6.129353e-02 2.200422e-01   
## 5626 5627 5628 5629 5630   
## -7.856627e-01 2.940448e-01 -5.424339e-01 1.944748e-01 -8.173884e-01   
## 5631 5632 5633 5634 5635   
## 1.826507e-01 -3.999563e-01 5.164639e-02 9.651520e-02 -4.535055e-01   
## 5636 5637 5638 5639 5640   
## -4.491990e-01 9.185739e-02 -8.386714e-01 2.510948e-01 3.571150e-01   
## 5641 5642 5643 5644 5645   
## 1.095345e-01 2.323938e-02 -6.551105e-01 3.745785e-01 -3.844463e-01   
## 5646 5647 5648 5649 5650   
## 4.400833e-02 -2.842318e-03 2.932464e-01 6.584236e-01 6.064597e-01   
## 5651 5652 5653 5654 5655   
## -5.361891e-02 2.717328e-01 2.249240e-01 -3.988931e-01 5.263590e-01   
## 5656 5657 5658 5659 5660   
## -3.636998e-01 3.218263e-01 2.238735e-01 1.810425e-01 5.164034e-01   
## 5661 5662 5663 5664 5665   
## 3.961513e-01 -8.212825e-01 -3.048516e-02 7.189555e-02 1.356726e-01   
## 5666 5667 5668 5669 5670   
## -1.013200e-02 5.896443e-01 1.589499e-01 2.629936e-01 -7.486148e-01   
## 5671 5672 5673 5674 5675   
## -3.163829e-01 -6.967592e-01 1.761755e-01 4.486641e-01 -6.104295e-01   
## 5676 5677 5678 5679 5680   
## -8.207261e-01 -5.029439e-02 -3.965482e-01 1.496267e-01 2.177382e-02   
## 5681 5682 5683 5684 5685   
## 5.513778e-01 7.895715e-03 1.401128e-01 2.253432e-01 1.250586e-01   
## 5686 5687 5688 5689 5690   
## 1.835435e-01 4.622164e-02 -8.064046e-01 -8.574219e-01 -4.704742e-01   
## 5691 5692 5693 5694 5695   
## 5.169578e-01 4.782196e-01 2.460163e-01 -7.849602e-01 -1.688547e-02   
## 5696 5697 5698 5699 5700   
## 6.244621e-01 1.881917e-01 -4.141555e-01 3.536748e-01 6.026047e-01   
## 5701 5702 5703 5704 5705   
## 1.174658e-01 1.032724e-01 -4.098296e-01 1.636500e-01 1.411892e-02   
## 5706 5707 5708 5709 5710   
## -3.021609e-01 -6.042587e-01 4.315894e-01 8.117994e-02 -3.801979e-01   
## 5711 5712 5713 5714 5715   
## 7.196454e-02 4.691246e-01 4.480860e-02 -4.916544e-01 1.979876e-01   
## 5716 5717 5718 5719 5720   
## -3.868541e-01 1.271175e-01 -6.426219e-03 8.036071e-02 -5.489303e-01   
## 5721 5722 5723 5724 5725   
## 1.268360e-01 -2.349873e-02 2.199308e-01 5.559113e-01 -1.225903e-01   
## 5726 5727 5728 5729 5730   
## -1.080262e-01 -3.924253e-02 1.911658e-01 2.439935e-01 -8.047448e-01   
## 5731 5732 5733 5734 5735   
## 1.131133e-01 -9.213255e-02 -3.742398e-01 6.244339e-02 6.169773e-02   
## 5736 5737 5738 5739 5740   
## 2.416356e-01 1.682432e-02 -4.133445e-01 2.092866e-01 6.146486e-01   
## 5741 5742 5743 5744 5745   
## 3.754459e-01 -4.117465e-01 -3.400266e-02 -2.869223e-02 2.223592e-01   
## 5746 5747 5748 5749 5750   
## 8.432897e-02 6.251420e-01 -4.808563e-02 2.294639e-01 9.147443e-02   
## 5751 5752 5753 5754 5755   
## -3.918260e-01 5.562486e-01 -2.304276e-02 4.121217e-01 5.894959e-01   
## 5756 5757 5758 5759 5760   
## 1.278736e-01 -7.912910e-01 1.943367e-01 1.031332e-02 3.850650e-01   
## 5761 5762 5763 5764 5765   
## 5.680396e-02 8.734193e-02 1.665211e-01 -5.067129e-02 1.231742e-01   
## 5766 5767 5768 5769 5770   
## 3.515118e-01 1.781441e-01 -1.226614e-01 -1.785011e-01 1.813537e-01   
## 5771 5772 5773 5774 5775   
## -7.471826e-01 -2.977118e-02 4.286202e-01 -3.532140e-01 -2.409819e-01   
## 5776 5777 5778 5779 5780   
## 3.958314e-01 1.293590e-02 -6.295466e-02 -6.347904e-01 4.331545e-01   
## 5781 5782 5783 5784 5785   
## 2.824378e-02 3.513685e-01 2.963785e-01 -4.819922e-01 3.779214e-01   
## 5786 5787 5788 5789 5790   
## 1.155273e-01 4.399102e-01 1.434724e-01 3.994203e-01 -3.097039e-01   
## 5791 5792 5793 5794 5795   
## -5.433932e-01 4.961466e-01 5.338669e-01 2.078439e-01 -3.763345e-01   
## 5796 5797 5798 5799 5800   
## -7.944037e-02 3.003840e-01 -7.921262e-01 -6.892324e-02 8.193045e-02   
## 5801 5802 5803 5804 5805   
## 6.229738e-01 -3.994640e-01 5.576012e-02 -4.194417e-01 9.207008e-02   
## 5806 5807 5808 5809 5810   
## 1.887641e-01 -2.841654e-01 3.429017e-01 -6.287045e-01 1.581086e-01   
## 5811 5812 5813 5814 5815   
## -1.079247e-02 8.721864e-02 6.150302e-02 4.245251e-01 1.869081e-01   
## 5816 5817 5818 5819 5820   
## -3.755608e-05 -3.506171e-01 -3.626993e-01 4.675134e-01 -8.717158e-02   
## 5821 5822 5823 5824 5825   
## 1.769957e-01 7.816858e-02 -3.462366e-01 -5.279179e-01 3.924001e-01   
## 5826 5827 5828 5829 5830   
## 2.568206e-01 2.948619e-03 1.278587e-01 4.915154e-01 6.717602e-02   
## 5831 5832 5833 5834 5835   
## 6.760169e-01 1.516821e-02 -7.230872e-01 4.421682e-01 4.569102e-01   
## 5836 5837 5838 5839 5840   
## 5.900783e-01 -3.473355e-01 6.040037e-01 3.123387e-01 -9.679355e-02   
## 5841 5842 5843 5844 5845   
## -3.342337e-02 -5.031381e-01 3.511741e-01 -4.658700e-01 1.488579e-01   
## 5846 5847 5848 5849 5850   
## 4.038943e-01 1.110217e-01 3.698908e-01 -4.725280e-01 -4.437724e-02   
## 5851 5852 5853 5854 5855   
## -1.458280e-01 -4.726727e-01 8.529143e-03 4.534816e-01 -3.470476e-01   
## 5856 5857 5858 5859 5860   
## -3.898575e-02 1.967758e-01 2.326373e-01 7.196933e-02 4.039714e-01   
## 5861 5862 5863 5864 5865   
## 2.841326e-01 -7.505058e-01 -7.139263e-01 -4.272433e-01 4.519162e-01   
## 5866 5867 5868 5869 5870   
## -2.914011e-01 -8.914114e-02 -3.037426e-01 -7.026475e-01 1.519850e-01   
## 5871 5872 5873 5874 5875   
## 4.807216e-02 -5.922387e-01 1.527011e-01 1.006666e-01 2.139614e-01   
## 5876 5877 5878 5879 5880   
## -7.543131e-01 1.171373e-01 -4.011032e-02 2.635003e-01 -5.672325e-01   
## 5881 5882 5883 5884 5885   
## 3.353319e-01 -4.221766e-02 -5.826091e-01 3.259263e-01 1.309972e-01   
## 5886 5887 5888 5889 5890   
## -5.643353e-01 2.582172e-01 -4.288830e-03 -8.146964e-02 7.364088e-02   
## 5891 5892 5893 5894 5895   
## 3.492710e-01 -8.623077e-01 -6.609254e-01 3.155655e-01 1.402358e-01   
## 5896 5897 5898 5899 5900   
## 1.891258e-01 6.347314e-01 -3.921464e-01 4.022516e-01 -8.077189e-01   
## 5901 5902 5903 5904 5905   
## 3.028886e-01 3.891320e-01 2.941282e-01 -6.067930e-01 2.949446e-01   
## 5906 5907 5908 5909 5910   
## 1.076401e-01 -2.989579e-02 -6.968715e-03 2.336775e-01 -7.636027e-02   
## 5911 5912 5913 5914 5915   
## -8.190363e-02 5.567795e-01 1.936325e-01 3.125804e-02 5.624222e-01   
## 5916 5917 5918 5919 5920   
## -9.205876e-02 2.878987e-01 3.024454e-01 1.652150e-02 -9.799308e-02   
## 5921 5922 5923 5924 5925   
## 2.338533e-01 1.080256e-02 -3.554533e-01 -3.246650e-01 -2.166605e-01   
## 5926 5927 5928 5929 5930   
## -4.235652e-01 4.293803e-01 3.677121e-02 -2.777927e-01 4.732279e-01   
## 5931 5932 5933 5934 5935   
## 2.680585e-01 1.295281e-01 2.258759e-01 -4.921182e-01 -3.538367e-01   
## 5936 5937 5938 5939 5940   
## -7.897356e-01 2.222311e-01 -1.009183e+00 -8.974682e-01 -9.260810e-02   
## 5941 5942 5943 5944 5945   
## 1.026675e-01 4.091596e-01 4.237721e-01 2.761008e-01 3.584423e-01   
## 5946 5947 5948 5949 5950   
## 2.617551e-01 -2.244132e-01 -4.796205e-01 -4.540206e-01 3.974908e-01   
## 5951 5952 5953 5954 5955   
## -1.595165e-02 3.139129e-01 3.431036e-01 3.744229e-01 3.293437e-01   
## 5956 5957 5958 5959 5960   
## -1.993788e-02 1.474996e-01 -6.461895e-01 -5.377490e-01 -6.295691e-01   
## 5961 5962 5963 5964 5965   
## 2.668868e-01 6.306755e-01 -1.116990e-01 -6.600759e-01 1.939076e-01   
## 5966 5967 5968 5969 5970   
## 1.783211e-01 -4.829868e-01 2.084375e-01 -6.450107e-02 2.676389e-01   
## 5971 5972 5973 5974 5975   
## -5.763648e-02 1.935418e-01 3.917892e-02 1.082998e-01 4.485445e-01   
## 5976 5977 5978 5979 5980   
## -3.605633e-01 1.485163e-02 6.338162e-01 8.961294e-02 3.650714e-02   
## 5981 5982 5983 5984 5985   
## -1.942673e-01 4.297229e-01 -4.467457e-01 -1.046919e+00 5.203419e-01   
## 5986 5987 5988 5989 5990   
## -5.750055e-01 -1.114316e-01 -8.550714e-02 6.628692e-01 2.620880e-02   
## 5991 5992 5993 5994 5995   
## 3.020614e-01 -2.668971e-02 4.462967e-01 -3.304582e-01 -1.227130e-01   
## 5996 5997 5998 5999 6000   
## -6.967741e-03 1.431244e-01 2.741178e-01 1.816977e-01 1.375589e-01   
## 6001 6002 6003 6004 6005   
## -5.762176e-01 6.790425e-02 6.514487e-02 -4.172122e-01 3.864419e-01   
## 6006 6007 6008 6009 6010   
## 3.059082e-01 5.300907e-01 -8.921280e-01 2.786749e-01 1.950556e-02   
## 6011 6012 6013 6014 6015   
## 2.840451e-01 1.859811e-01 1.939920e-01 1.723769e-01 7.767824e-03   
## 6016 6017 6018 6019 6020   
## -3.078069e-01 1.551281e-01 1.438965e-01 2.501567e-02 -6.314534e-01   
## 6021 6022 6023 6024 6025   
## 5.132976e-01 -6.488429e-01 3.789456e-01 -6.844593e-01 -4.188222e-01   
## 6026 6027 6028 6029 6030   
## 1.381217e-01 -7.849501e-01 1.096149e-01 2.597806e-01 -9.984732e-01   
## 6031 6032 6033 6034 6035   
## -6.047694e-01 -4.376866e-01 1.830218e-01 1.037960e-01 -5.118597e-01   
## 6036 6037 6038 6039 6040   
## 5.861832e-01 1.064032e-02 5.974355e-01 4.077183e-01 -3.619323e-01   
## 6041 6042 6043 6044 6045   
## -5.699637e-02 1.252695e-01 1.523961e-01 -4.389575e-03 6.364714e-02   
## 6046 6047 6048 6049 6050   
## -5.607679e-01 4.384736e-01 -2.683521e-02 3.210475e-01 3.510106e-01   
## 6051 6052 6053 6054 6055   
## 1.086670e-01 6.590052e-01 3.385479e-01 3.233289e-01 -5.591223e-02   
## 6056 6057 6058 6059 6060   
## -4.398451e-01 -9.310619e-03 -3.513559e-01 2.712419e-01 -6.646671e-01   
## 6061 6062 6063 6064 6065   
## -4.017578e-02 4.379452e-02 8.732120e-02 1.314849e-01 1.708781e-03   
## 6066 6067 6068 6069 6070   
## -5.745311e-01 2.542677e-01 -9.967217e-02 5.318019e-02 6.449019e-02   
## 6071 6072 6073 6074 6075   
## 2.807931e-01 -6.636811e-01 3.361293e-01 -6.901016e-01 3.069136e-02   
## 6076 6077 6078 6079 6080   
## 5.239520e-01 -5.326752e-01 6.565391e-02 2.979298e-01 -5.353879e-01   
## 6081 6082 6083 6084 6085   
## -2.466004e-01 3.058696e-02 -2.201138e-01 -4.816875e-02 8.440213e-02   
## 6086 6087 6088 6089 6090   
## -6.402840e-02 2.310016e-01 6.508754e-01 -1.868562e-01 3.361669e-01   
## 6091 6092 6093 6094 6095   
## -8.887598e-02 -3.966441e-01 7.249290e-02 -1.335196e-02 1.339088e-01   
## 6096 6097 6098 6099 6100   
## 1.867842e-01 -7.820247e-01 -6.555239e-01 1.904223e-01 3.419845e-01   
## 6101 6102 6103 6104 6105   
## 3.916714e-01 3.654178e-01 3.984732e-01 2.743194e-01 5.036905e-01   
## 6106 6107 6108 6109 6110   
## 3.593385e-01 -5.846449e-02 1.137191e-01 -6.110198e-02 1.933656e-02   
## 6111 6112 6113 6114 6115   
## 2.380286e-01 3.595942e-01 4.087922e-02 1.082540e-01 8.262256e-02   
## 6116 6117 6118 6119 6120   
## -3.368005e-02 -3.095982e-01 -3.629445e-01 1.846714e-01 5.689983e-01   
## 6121 6122 6123 6124 6125   
## 2.519583e-01 -1.124242e-01 -6.133815e-01 1.807876e-01 4.237637e-01   
## 6126 6127 6128 6129 6130   
## 3.690341e-01 -2.900370e-02 -5.508979e-02 -7.901737e-01 1.637331e-01   
## 6131 6132 6133 6134 6135   
## 1.400316e-01 1.890480e-01 -6.118206e-01 -7.134502e-01 4.901665e-02   
## 6136 6137 6138 6139 6140   
## 4.953182e-01 -1.044670e-01 -4.708288e-01 3.417191e-01 -7.633138e-02   
## 6141 6142 6143 6144 6145   
## 3.602589e-01 4.716480e-01 -4.882052e-01 -4.519685e-01 -4.664513e-02   
## 6146 6147 6148 6149 6150   
## 5.277696e-02 -8.245583e-01 4.990220e-01 -8.159902e-01 2.284275e-01   
## 6151 6152 6153 6154 6155   
## 1.057652e-01 2.201104e-01 4.598911e-01 2.429010e-01 5.838524e-01   
## 6156 6157 6158 6159 6160   
## 6.196889e-02 6.336817e-01 -5.275673e-01 2.354655e-01 -3.522369e-01   
## 6161 6162 6163 6164 6165   
## -6.127688e-01 1.746619e-01 3.533469e-01 -4.478670e-01 4.412114e-01   
## 6166 6167 6168 6169 6170   
## -5.817671e-01 3.176353e-01 -6.203450e-01 -6.101716e-01 6.225462e-02   
## 6171 6172 6173 6174 6175   
## -2.541367e-01 2.474809e-01 2.806274e-01 -1.856727e-01 2.303581e-01   
## 6176 6177 6178 6179 6180   
## 2.640019e-01 3.141952e-01 -7.318990e-01 6.490895e-02 1.451286e-01   
## 6181 6182 6183 6184 6185   
## -1.168979e-01 -3.932645e-01 2.718024e-01 5.368690e-01 5.875119e-01   
## 6186 6187 6188 6189 6190   
## 8.925776e-02 -3.986058e-01 1.060189e-01 -7.580049e-01 5.922303e-02   
## 6191 6192 6193 6194 6195   
## -5.007769e-01 -9.190453e-02 5.095067e-01 -8.147853e-01 2.729949e-02   
## 6196 6197 6198 6199 6200   
## 3.847658e-01 -5.925811e-01 2.935543e-01 -6.776749e-01 -5.746276e-02   
## 6201 6202 6203 6204 6205   
## 3.127147e-01 1.501640e-01 -4.427077e-01 4.012885e-01 3.890473e-02   
## 6206 6207 6208 6209 6210   
## -9.241278e-03 -2.400729e-01 -1.387477e-01 1.043654e-01 5.699026e-02   
## 6211 6212 6213 6214 6215   
## -4.976148e-01 1.453635e-01 1.065830e-01 2.179069e-01 -4.631002e-01   
## 6216 6217 6218 6219 6220   
## 1.418526e-01 -3.322413e-02 -2.122779e-02 -6.619437e-01 -1.500548e-01   
## 6221 6222 6223 6224 6225   
## -3.021925e-02 1.729415e-01 -3.492854e-01 -2.554807e-01 1.907388e-01   
## 6226 6227 6228 6229 6230   
## 3.118498e-02 -6.537961e-01 5.740696e-01 -4.553958e-01 3.454263e-01   
## 6231 6232 6233 6234 6235   
## 1.716694e-01 -2.667454e-01 -6.210490e-01 -7.391910e-02 -4.884465e-02   
## 6236 6237 6238 6239 6240   
## 4.439695e-01 1.275060e-01 1.724829e-02 2.528272e-01 5.672237e-02   
## 6241 6242 6243 6244 6245   
## 5.901531e-01 9.847476e-02 1.591827e-01 2.189711e-01 3.223987e-01   
## 6246 6247 6248 6249 6250   
## 1.151981e-01 1.738441e-01 -5.448678e-01 -3.840904e-01 2.413441e-01   
## 6251 6252 6253 6254 6255   
## -4.906396e-02 2.122115e-01 -1.054524e-01 2.495636e-01 2.835691e-01   
## 6256 6257 6258 6259 6260   
## 2.054122e-01 4.100893e-01 -5.246745e-01 -4.000084e-01 7.737678e-02   
## 6261 6262 6263 6264 6265   
## 2.590301e-01 1.364770e-02 4.575662e-01 5.763887e-03 -3.511686e-01   
## 6266 6267 6268 6269 6270   
## 3.379034e-01 -1.479392e-01 7.694870e-02 -8.089462e-01 1.261978e-01   
## 6271 6272 6273 6274 6275   
## 3.018710e-01 1.850441e-01 1.391188e-01 5.651131e-02 -3.733038e-01   
## 6276 6277 6278 6279 6280   
## 6.092748e-01 2.264669e-01 1.520538e-01 -4.491251e-01 6.271722e-01   
## 6281 6282 6283 6284 6285   
## -1.004225e+00 -7.889504e-01 -5.484593e-02 3.925292e-01 2.528624e-02   
## 6286 6287 6288 6289 6290   
## -8.114365e-01 -6.590742e-02 2.943459e-01 3.925553e-02 3.320125e-01   
## 6291 6292 6293 6294 6295   
## 1.230723e-01 -1.690350e-04 1.429508e-01 -4.115490e-01 4.421125e-02   
## 6296 6297 6298 6299 6300   
## -4.234302e-01 -4.720651e-01 4.625003e-02 8.845828e-02 5.462837e-01   
## 6301 6302 6303 6304 6305   
## -5.446143e-02 1.510836e-01 4.118895e-01 -8.414645e-01 -2.953107e-01   
## 6306 6307 6308 6309 6310   
## 6.328178e-01 2.631102e-02 -3.956106e-02 -3.699791e-01 1.295219e-01   
## 6311 6312 6313 6314 6315   
## 3.128743e-01 1.833174e-01 -9.111566e-01 -3.680331e-01 3.854919e-01   
## 6316 6317 6318 6319 6320   
## 4.848800e-01 -6.160208e-01 1.276905e-01 3.597135e-01 -1.413854e-01   
## 6321 6322 6323 6324 6325   
## 2.055102e-01 5.343272e-01 3.970796e-02 3.263689e-02 -6.987894e-01   
## 6326 6327 6328 6329 6330   
## 1.129434e-01 3.944248e-01 3.294179e-01 2.512600e-01 2.429746e-01   
## 6331 6332 6333 6334 6335   
## -6.726712e-01 5.178826e-01 -3.631761e-01 4.037186e-01 4.993825e-02   
## 6336 6337 6338 6339 6340   
## -5.120195e-01 4.936214e-01 -6.412707e-01 4.936478e-01 4.520024e-01   
## 6341 6342 6343 6344 6345   
## -2.466585e-02 2.113755e-01 -7.258824e-01 3.794542e-01 2.417588e-01   
## 6346 6347 6348 6349 6350   
## 1.303721e-02 1.997861e-02 5.350249e-01 -9.173878e-01 -1.358497e-01   
## 6351 6352 6353 6354 6355   
## 1.383063e-01 -7.527033e-01 2.905593e-01 6.611230e-01 4.977007e-01   
## 6356 6357 6358 6359 6360   
## 9.891757e-02 -2.097499e-01 -3.481836e-02 -7.609539e-02 -1.937299e-01   
## 6361 6362 6363 6364 6365   
## 7.014473e-02 -5.931033e-01 8.842304e-02 5.468447e-02 3.714851e-01   
## 6366 6367 6368 6369 6370   
## -5.222514e-02 -4.323755e-01 -9.529384e-02 -5.755737e-01 -5.529295e-01   
## 6371 6372 6373 6374 6375   
## -4.258371e-01 3.507996e-01 1.635591e-01 -2.363995e-03 9.030128e-02   
## 6376 6377 6378 6379 6380   
## 1.308206e-01 -2.787162e-01 -9.699494e-02 1.441897e-01 -8.022815e-01   
## 6381 6382 6383 6384 6385   
## -8.244817e-02 7.750993e-02 2.136226e-01 2.561040e-01 4.529506e-01   
## 6386 6387 6388 6389 6390   
## 1.201430e-01 -6.532716e-01 5.307521e-01 7.235887e-02 -8.814179e-01   
## 6391 6392 6393 6394 6395   
## 3.433597e-01 -9.977500e-02 -7.299616e-01 6.108485e-02 -1.957995e-02   
## 6396 6397 6398 6399 6400   
## 1.878351e-01 3.081250e-01 3.865000e-01 3.148201e-01 -8.696190e-01   
## 6401 6402 6403 6404 6405   
## 6.057153e-02 -2.055196e-02 5.921920e-01 -6.618476e-02 -5.181266e-01   
## 6406 6407 6408 6409 6410   
## 1.270844e-02 1.599514e-01 -3.049981e-02 -6.390499e-01 3.005306e-01   
## 6411 6412 6413 6414 6415   
## 2.161793e-01 3.692993e-01 8.735831e-02 1.096274e-02 -8.476270e-02   
## 6416 6417 6418 6419 6420   
## -8.793095e-01 9.671249e-02 7.018738e-02 -1.239683e-03 -4.249832e-01   
## 6421 6422 6423 6424 6425   
## -9.949037e-02 1.292949e-01 5.528761e-02 1.244620e-01 -8.112214e-02   
## 6426 6427 6428 6429 6430   
## -6.014484e-01 4.921235e-02 -1.516065e-01 1.196905e-01 -2.993718e-01   
## 6431 6432 6433 6434 6435   
## 3.455048e-01 5.595279e-01 1.948657e-01 -1.978706e-02 1.474019e-01   
## 6436 6437 6438 6439 6440   
## -7.431161e-01 5.926435e-01 1.387093e-01 -3.624352e-02 -7.481480e-01   
## 6441 6442 6443 6444 6445   
## 1.874482e-01 1.520638e-02 1.210106e-01 5.419122e-01 -5.070034e-01   
## 6446 6447 6448 6449 6450   
## 3.784411e-01 3.135526e-01 1.727549e-01 2.403135e-01 2.957823e-01   
## 6451 6452 6453 6454 6455   
## 2.987250e-01 -7.048599e-01 3.309729e-01 -3.593522e-01 6.183621e-02   
## 6456 6457 6458 6459 6460   
## 2.229599e-01 -7.132786e-02 5.096242e-01 5.530747e-01 2.525858e-01   
## 6461 6462 6463 6464 6465   
## 1.420479e-04 3.035966e-01 5.739488e-02 1.106236e-01 -3.455120e-01   
## 6466 6467 6468 6469 6470   
## 9.202171e-02 2.848416e-01 -7.093199e-02 1.159172e-01 1.720275e-01   
## 6471 6472 6473 6474 6475   
## -5.474221e-01 2.108219e-01 4.988918e-01 -2.242470e-01 5.634909e-01   
## 6476 6477 6478 6479 6480   
## 1.574541e-01 1.912808e-01 -6.410669e-01 1.474821e-01 -4.044696e-01   
## 6481 6482 6483 6484 6485   
## -7.674348e-01 7.541510e-02 -4.067002e-01 4.252022e-02 3.230330e-01   
## 6486 6487 6488 6489 6490   
## 3.357403e-01 -4.073047e-01 -5.408793e-01 3.738653e-01 -4.070707e-01   
## 6491 6492 6493 6494 6495   
## 1.930246e-01 1.305709e-01 2.406171e-01 2.056461e-02 3.161615e-02   
## 6496 6497 6498 6499 6500   
## -4.169155e-01 -7.101594e-02 -3.595252e-01 -7.778062e-01 -5.350500e-01   
## 6501 6502 6503 6504 6505   
## -5.628161e-01 1.394954e-01 -3.730858e-02 2.781526e-01 2.933005e-01   
## 6506 6507 6508 6509 6510   
## -3.058322e-02 -6.504108e-01 -6.871838e-01 3.628435e-01 -6.484455e-01   
## 6511 6512 6513 6514 6515   
## 2.417044e-01 -3.510469e-01 9.800771e-02 1.112222e-01 1.704856e-01   
## 6516 6517 6518 6519 6520   
## -3.612830e-01 -6.372330e-02 -7.013517e-01 -6.582202e-01 -1.201316e-01   
## 6521 6522 6523 6524 6525   
## -2.941152e-01 5.572062e-02 2.540415e-01 1.346791e-01 5.584358e-01   
## 6526 6527 6528 6529 6530   
## 2.053429e-01 -5.937064e-01 3.883070e-01 -9.800939e-01 -4.715607e-01   
## 6531 6532 6533 6534 6535   
## 2.919297e-01 1.325517e-01 3.924899e-02 -4.079075e-01 -5.722277e-02   
## 6536 6537 6538 6539 6540   
## -5.042424e-01 -6.029817e-01 2.519933e-01 7.466537e-02 1.370351e-01   
## 6541 6542 6543 6544 6545   
## -5.290680e-01 -4.251862e-01 2.464559e-01 -3.158514e-01 7.088563e-02   
## 6546 6547 6548 6549 6550   
## -4.611113e-01 9.662273e-02 9.386871e-02 5.346872e-01 -8.718438e-01   
## 6551 6552 6553 6554 6555   
## 2.651130e-01 6.266444e-02 5.354978e-01 -2.790782e-01 -4.605279e-01   
## 6556 6557 6558 6559 6560   
## 1.649263e-01 2.823418e-01 7.981283e-04 6.138871e-01 6.336510e-02   
## 6561 6562 6563 6564 6565   
## 6.416622e-02 3.772810e-01 9.536347e-02 -7.875175e-02 1.064803e-01   
## 6566 6567 6568 6569 6570   
## 7.107169e-01 2.572097e-01 1.942156e-01 -1.124628e-01 2.239956e-01   
## 6571 6572 6573 6574 6575   
## -1.145453e-01 1.197402e-01 1.400170e-01 8.954559e-02 1.411241e-01   
## 6576 6577 6578 6579 6580   
## -6.105722e-02 1.803048e-02 4.558962e-02 2.809183e-01 7.005173e-02   
## 6581 6582 6583 6584 6585   
## -4.913653e-02 -3.944320e-01 -4.190379e-01 1.790559e-01 -7.694099e-01   
## 6586 6587 6588 6589 6590   
## 1.974138e-01 -8.008321e-02 -9.060414e-02 -5.690414e-01 -7.713501e-02   
## 6591 6592 6593 6594 6595   
## -4.412265e-01 -7.040915e-01 7.440508e-02 4.091568e-01 3.973199e-01   
## 6596 6597 6598 6599 6600   
## 3.697175e-01 -8.413312e-01 -5.499715e-01 -5.863793e-01 -8.180755e-01   
## 6601 6602 6603 6604 6605   
## -7.581407e-01 6.374458e-01 1.236178e-01 -4.198098e-01 1.921505e-01   
## 6606 6607 6608 6609 6610   
## -1.185455e-01 3.220039e-01 -5.380747e-01 1.625023e-01 4.347640e-01   
## 6611 6612 6613 6614 6615   
## 1.477220e-01 -3.407122e-01 -5.715395e-02 -5.379517e-01 -2.841295e-01   
## 6616 6617 6618 6619 6620   
## 1.092842e-02 -3.135066e-01 -2.703860e-01 -5.547151e-03 6.154477e-01   
## 6621 6622 6623 6624 6625   
## 2.010710e-02 6.100228e-01 2.920122e-01 -9.010556e-01 -3.448182e-01   
## 6626 6627 6628 6629 6630   
## -3.663883e-01 8.529231e-02 2.877011e-01 -4.036275e-02 -3.996826e-02   
## 6631 6632 6633 6634 6635   
## 1.907670e-01 1.615654e-01 -7.115386e-01 2.518832e-01 6.020292e-01   
## 6636 6637 6638 6639 6640   
## 3.348213e-01 1.927907e-01 -1.313973e-02 -8.954288e-02 1.210878e-01   
## 6641 6642 6643 6644 6645   
## 1.373350e-01 1.824889e-01 1.738986e-01 3.573670e-02 3.556832e-01   
## 6646 6647 6648 6649 6650   
## -3.071876e-01 -2.363539e-02 -6.434512e-03 7.498486e-03 -4.520103e-01   
## 6651 6652 6653 6654 6655   
## -1.461473e-01 -4.093079e-01 -8.186063e-03 3.915985e-02 4.577862e-01   
## 6656 6657 6658 6659 6660   
## 4.359037e-01 1.988524e-01 3.332583e-01 -3.928130e-01 4.401691e-01   
## 6661 6662 6663 6664 6665   
## 5.266330e-01 1.597254e-01 2.213646e-02 3.917996e-01 2.214882e-01   
## 6666 6667 6668 6669 6670   
## 2.323085e-01 3.360424e-01 3.268694e-01 1.872735e-02 -7.149452e-02   
## 6671 6672 6673 6674 6675   
## -8.343151e-01 -2.990542e-01 9.884411e-02 1.654323e-01 2.427128e-01   
## 6676 6677 6678 6679 6680   
## 2.083178e-01 8.218707e-02 -3.568540e-01 3.678667e-02 1.520628e-01   
## 6681 6682 6683 6684 6685   
## 2.851646e-01 6.105862e-02 1.652794e-01 4.314918e-01 2.407855e-01   
## 6686 6687 6688 6689 6690   
## -1.962301e-01 6.231687e-01 2.930451e-01 2.842789e-01 2.176665e-02   
## 6691 6692 6693 6694 6695   
## 1.512398e-01 3.733923e-01 4.731230e-01 -4.478385e-01 2.781726e-01   
## 6696 6697 6698 6699 6700   
## 2.337386e-01 1.940009e-01 4.252709e-02 -3.708867e-01 2.794024e-01   
## 6701 6702 6703 6704 6705   
## -1.905251e-02 3.920990e-01 4.186938e-01 3.022501e-01 5.866316e-01   
## 6706 6707 6708 6709 6710   
## 6.414997e-01 -3.652121e-01 -6.152934e-01 -3.978603e-01 -5.772054e-02   
## 6711 6712 6713 6714 6715   
## -4.021919e-02 4.662297e-02 2.562074e-01 -3.896620e-02 -1.043737e+00   
## 6716 6717 6718 6719 6720   
## 6.824667e-02 -4.013890e-01 5.126832e-01 -3.793151e-02 -4.950547e-02   
## 6721 6722 6723 6724 6725   
## 8.354960e-02 7.081915e-02 5.071691e-01 1.914369e-01 -7.665258e-01   
## 6726 6727 6728 6729 6730   
## -2.044362e-01 -4.339563e-02 1.371878e-01 1.933964e-01 4.498924e-01   
## 6731 6732 6733 6734 6735   
## -6.659608e-01 -3.517693e-01 -1.656842e-02 2.599385e-01 6.008690e-02   
## 6736 6737 6738 6739 6740   
## -6.464648e-01 -7.383197e-01 1.148313e-01 -2.973814e-01 -1.264236e-01   
## 6741 6742 6743 6744 6745   
## 1.827347e-01 -3.496370e-02 2.091045e-01 2.201823e-02 3.628713e-01   
## 6746 6747 6748 6749 6750   
## 6.135335e-01 -8.848974e-01 1.545993e-01 3.077870e-01 -6.949452e-01   
## 6751 6752 6753 6754 6755   
## 2.403722e-01 -7.443586e-01 1.260711e-02 -4.067002e-01 -2.135967e-02   
## 6756 6757 6758 6759 6760   
## 8.718197e-02 -8.739008e-03 -6.862767e-02 -3.673218e-02 6.170303e-01   
## 6761 6762 6763 6764 6765   
## 1.303646e-01 -8.384283e-01 -4.323977e-01 1.921421e-01 1.782023e-01   
## 6766 6767 6768 6769 6770   
## 1.427505e-02 3.741722e-01 -6.543816e-02 1.771007e-01 2.632784e-01   
## 6771 6772 6773 6774 6775   
## -4.926604e-01 3.012154e-01 1.051147e-01 1.757009e-01 -8.771222e-01   
## 6776 6777 6778 6779 6780   
## -7.597365e-01 4.211317e-01 1.098486e-01 -7.534468e-01 -1.886670e-03   
## 6781 6782 6783 6784 6785   
## -5.814522e-01 -9.609194e-01 4.903443e-02 -1.290773e-02 2.402348e-01   
## 6786 6787 6788 6789 6790   
## -6.515884e-01 4.631561e-01 5.457655e-01 1.162624e-01 -5.769177e-01   
## 6791 6792 6793 6794 6795   
## 4.631272e-01 5.145965e-01 2.033945e-01 5.580182e-01 2.143252e-01   
## 6796 6797 6798 6799 6800   
## -6.070212e-04 1.078336e-01 3.134980e-01 -3.610253e-01 -6.670820e-01   
## 6801 6802 6803 6804 6805   
## -4.503813e-01 2.456548e-01 -1.033573e+00 3.091150e-01 -2.283000e-01   
## 6806 6807 6808 6809 6810   
## -4.024718e-01 -5.738610e-02 2.027044e-01 -6.195665e-01 2.231443e-01   
## 6811 6812 6813 6814 6815   
## -4.138531e-01 -4.767971e-01 3.232291e-01 -6.894103e-01 5.027167e-01   
## 6816 6817 6818 6819 6820   
## 2.224028e-01 1.277005e-02 5.874907e-02 4.726693e-02 6.562699e-02   
## 6821 6822 6823 6824 6825   
## -3.113168e-01 -5.177195e-02 6.148674e-01 3.392969e-01 2.181875e-01   
## 6826 6827 6828 6829 6830   
## -3.502705e-01 6.699744e-01 -3.677402e-01 -2.955567e-01 2.120221e-01   
## 6831 6832 6833 6834 6835   
## 2.856742e-01 1.655637e-01 -5.234552e-01 3.546974e-01 4.639166e-01   
## 6836 6837 6838 6839 6840   
## -3.414474e-01 3.210823e-01 4.440079e-01 3.548673e-01 -1.715729e-01   
## 6841 6842 6843 6844 6845   
## 2.829386e-01 1.001681e-01 -7.419219e-01 1.884593e-01 6.673951e-02   
## 6846 6847 6848 6849 6850   
## -4.032494e-02 2.878668e-01 -4.750154e-01 -4.014481e-02 -5.270433e-01   
## 6851 6852 6853 6854 6855   
## -4.341351e-01 -2.659974e-01 7.103774e-02 -5.647915e-01 1.917145e-01   
## 6856 6857 6858 6859 6860   
## -2.268706e-01 -9.615271e-02 -3.559066e-01 -9.407068e-01 3.670656e-01   
## 6861 6862 6863 6864 6865   
## 2.841864e-01 1.295753e-01 -1.135423e-01 2.263130e-01 -7.604803e-02   
## 6866 6867 6868 6869 6870   
## 1.139128e-01 -4.689256e-01 -3.230731e-01 4.867933e-01 -8.560825e-02   
## 6871 6872 6873 6874 6875   
## 2.407463e-01 1.002167e-01 3.586415e-01 -5.105486e-01 -4.457974e-01   
## 6876 6877 6878 6879 6880   
## -2.681295e-01 1.971644e-02 6.274959e-01 5.871192e-01 1.603479e-01   
## 6881 6882 6883 6884 6885   
## 3.694237e-01 2.408524e-01 -7.672559e-01 -2.102894e-01 6.255416e-02   
## 6886 6887 6888 6889 6890   
## -6.467221e-01 6.684045e-02 4.916634e-01 -6.152322e-01 3.566042e-01   
## 6891 6892 6893 6894 6895   
## 2.875876e-01 2.330140e-02 2.135993e-01 2.176663e-01 4.084533e-01   
## 6896 6897 6898 6899 6900   
## 6.851711e-02 -6.767983e-01 -6.490103e-01 3.295131e-01 6.265533e-03   
## 6901 6902 6903 6904 6905   
## -3.455892e-02 6.654735e-01 1.085280e-01 -5.103410e-01 2.008234e-01   
## 6906 6907 6908 6909 6910   
## -5.899572e-02 5.141895e-02 -6.731409e-01 3.091728e-01 -5.464398e-03   
## 6911 6912 6913 6914 6915   
## 3.117596e-01 5.035195e-01 4.804585e-02 -4.095353e-01 1.030268e-01   
## 6916 6917 6918 6919 6920   
## -7.282665e-01 2.264234e-01 9.618769e-02 9.196691e-02 -3.567682e-01   
## 6921 6922 6923 6924 6925   
## 1.355560e-01 4.168629e-01 -4.076764e-01 1.043062e-01 1.084141e-01   
## 6926 6927 6928 6929 6930   
## -4.072129e-01 2.990950e-01 -9.209502e-03 2.741347e-01 -1.140085e-01   
## 6931 6932 6933 6934 6935   
## 3.563313e-02 6.454570e-03 -6.993892e-01 2.293117e-01 -9.009746e-01   
## 6936 6937 6938 6939 6940   
## 2.102774e-01 2.284897e-01 2.303719e-01 2.174048e-01 3.143597e-01   
## 6941 6942 6943 6944 6945   
## 6.766779e-03 -5.859194e-01 -3.294726e-01 2.011526e-01 3.607647e-01   
## 6946 6947 6948 6949 6950   
## -5.083948e-02 5.067184e-01 8.016383e-02 4.419251e-01 4.808658e-01   
## 6951 6952 6953 6954 6955   
## -4.694003e-01 -4.647934e-01 6.439419e-01 2.191776e-01 1.628314e-01   
## 6956 6957 6958 6959 6960   
## 1.281675e-01 -4.097824e-01 -4.300568e-01 -8.054883e-01 -3.648057e-01   
## 6961 6962 6963 6964 6965   
## -4.161395e-01 -7.021523e-01 2.441671e-01 3.843727e-01 1.067679e-01   
## 6966 6967 6968 6969 6970   
## -1.445786e-02 2.875331e-01 -1.683985e-01 3.629309e-01 -5.343626e-01   
## 6971 6972 6973 6974 6975   
## 3.525698e-01 -1.704938e-01 3.031808e-01 2.633714e-01 1.200052e-01   
## 6976 6977 6978 6979 6980   
## -5.601844e-01 4.468272e-01 2.933861e-01 2.902018e-01 4.190636e-01   
## 6981 6982 6983 6984 6985   
## -3.344550e-01 1.438081e-01 -5.693321e-01 9.164043e-02 -6.314080e-02   
## 6986 6987 6988 6989 6990   
## -8.868231e-01 4.424669e-01 5.926571e-01 -6.334427e-01 -3.094810e-02   
## 6991 6992 6993 6994 6995   
## -6.194026e-01 1.510891e-01 2.372026e-01 4.342355e-01 6.782851e-02   
## 6996 6997 6998 6999 7000   
## -5.341992e-01 -4.910679e-03 -3.111364e-01 -4.744019e-01 -2.933352e-01   
## 7001 7002 7003 7004 7005   
## -7.299373e-01 9.295996e-04 4.096674e-01 4.359333e-01 4.930302e-01   
## 7006 7007 7008 7009 7010   
## 3.342943e-01 -4.505845e-02 -4.142334e-01 4.840340e-03 1.753519e-01   
## 7011 7012 7013 7014 7015   
## -6.963625e-01 1.989088e-01 3.568745e-01 3.328288e-01 5.308326e-01   
## 7016 7017 7018 7019 7020   
## -6.499883e-01 3.210324e-01 -1.032665e-01 5.800353e-01 2.427666e-01   
## 7021 7022 7023 7024 7025   
## 7.823893e-02 -2.893342e-01 3.893726e-01 -8.097692e-01 5.232701e-01   
## 7026 7027 7028 7029 7030   
## 3.330831e-01 -4.685621e-02 2.637199e-01 1.691649e-01 3.266835e-01   
## 7031 7032   
## -3.069020e-01 4.129215e-02

#Anova Table  
anova(fit)

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

vcov(fit)

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

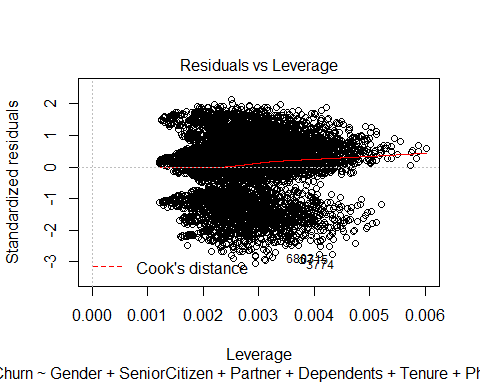
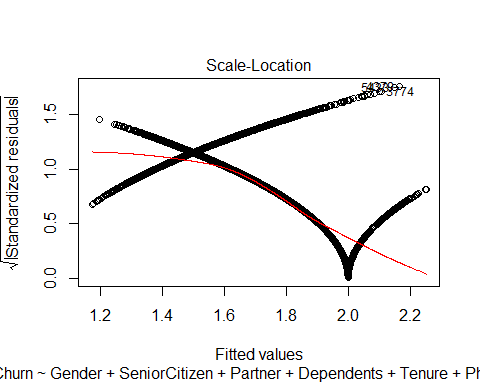
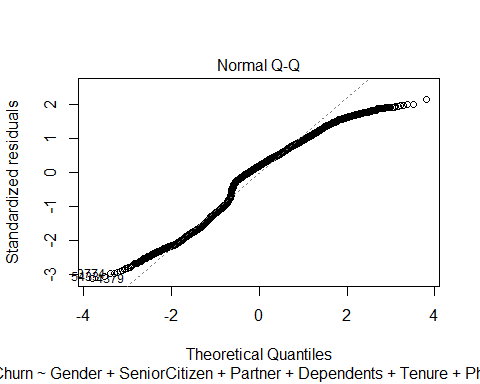
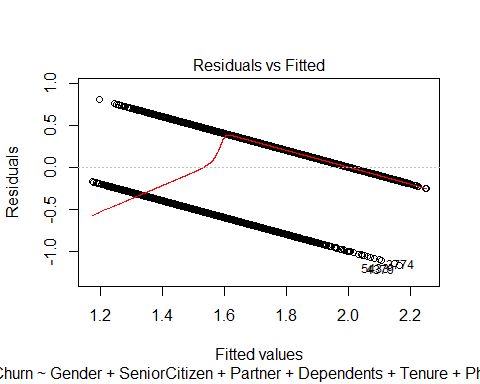
cov2cor(vcov(fit))

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

temp <- influence.measures(fit)  
temp

## Influence measures of  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure + PhoneService + MultipleLines + InternetService + OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport + StreamingTV + StreamingMovies + Contract + PaperlessBilling + PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn) :  
##   
## dfb.1\_ dfb.Gndr dfb.SnrC dfb.Prtn dfb.Dpnd dfb.Tenr dfb.PhnS  
## 1 -2.03e-03 -1.34e-02 -1.12e-02 -2.90e-02 1.88e-02 -2.65e-02 1.89e-02  
## 2 -4.60e-03 3.55e-03 -8.24e-04 2.91e-03 1.89e-03 2.50e-03 -7.70e-05  
## 3 -1.66e-02 -2.24e-02 6.71e-03 -5.75e-03 -1.07e-02 8.29e-03 1.46e-02  
## 4 -1.74e-03 1.97e-03 -5.51e-04 1.78e-03 8.49e-04 1.71e-03 3.82e-03  
## 5 1.64e-02 1.29e-02 9.08e-03 -4.11e-03 -2.83e-03 2.32e-03 -1.53e-02  
## 6 -7.70e-03 8.71e-03 8.13e-03 -5.15e-03 -1.11e-03 -6.52e-03 8.23e-03  
## 7 3.38e-03 1.68e-02 -7.18e-03 3.03e-02 -3.91e-02 5.68e-03 -9.05e-03  
## 8 -1.16e-02 -1.04e-02 -4.01e-03 3.72e-03 4.00e-03 -6.90e-03 1.58e-02  
## 9 -2.08e-02 1.50e-02 1.57e-02 2.48e-02 -1.72e-02 -8.20e-03 9.92e-03  
## 10 1.92e-03 -2.36e-03 -3.38e-04 -5.61e-03 5.17e-03 -3.27e-03 -6.37e-04  
## 11 2.67e-03 8.69e-03 -9.30e-04 -7.84e-03 -9.75e-03 -1.00e-03 -3.15e-03  
## 12 -3.66e-04 1.31e-03 7.68e-05 6.56e-04 9.97e-04 -2.55e-03 1.91e-04  
## 13 -1.12e-02 8.46e-03 -9.79e-03 -1.01e-02 1.06e-02 -3.09e-03 4.24e-04  
## 14 -1.83e-02 -1.97e-02 2.05e-02 -2.28e-02 -6.28e-05 -5.54e-03 1.13e-02  
## 15 1.80e-02 1.43e-02 -7.58e-03 9.59e-03 2.85e-03 1.63e-02 1.17e-02  
## 16 -5.80e-04 1.76e-03 3.61e-04 -3.01e-04 2.10e-03 2.73e-03 -4.31e-04  
## 17 -2.77e-05 -6.52e-04 -1.41e-04 5.71e-04 3.35e-04 1.49e-03 1.19e-04  
## 18 -2.59e-03 1.61e-03 -3.12e-04 4.58e-03 -3.98e-03 -1.96e-03 7.92e-04  
## 19 -2.14e-02 2.59e-02 -1.79e-03 2.18e-02 2.84e-02 6.94e-03 9.64e-03  
## 20 6.73e-03 -1.59e-02 -1.38e-02 1.07e-02 1.97e-03 1.39e-02 1.48e-02  
## 21 3.95e-03 -1.41e-02 -3.36e-02 -9.05e-03 4.53e-03 2.01e-02 -1.51e-02  
## 22 2.87e-03 3.21e-03 -9.67e-04 -6.04e-03 5.22e-03 -6.10e-03 -2.72e-05  
## 23 -2.44e-02 -2.49e-02 3.60e-03 -6.00e-03 -1.39e-02 3.60e-02 7.29e-03  
## 24 -4.00e-04 -7.19e-04 -3.98e-04 -9.53e-04 1.10e-03 -1.60e-05 -9.46e-04  
## 25 -1.31e-03 -1.36e-03 -2.29e-05 5.48e-04 1.51e-03 -1.99e-03 1.38e-04  
## 26 6.80e-03 -5.78e-03 -2.71e-03 4.38e-03 2.18e-03 3.62e-03 -2.37e-03  
## 27 -7.01e-03 -1.83e-02 1.50e-02 4.41e-03 2.73e-02 -5.38e-03 6.43e-03  
## 28 1.66e-02 -1.97e-02 5.50e-03 2.18e-02 2.27e-02 3.88e-02 -3.23e-02  
## 29 -4.12e-03 -3.08e-03 1.59e-03 2.92e-03 -4.37e-03 1.10e-03 4.64e-03  
## 30 -1.08e-02 2.00e-02 3.04e-04 -3.06e-02 4.21e-02 -1.11e-02 1.16e-02  
## 31 -6.85e-04 -9.73e-04 2.12e-03 -7.15e-04 7.99e-04 -1.00e-03 3.81e-04  
## 32 1.54e-02 2.52e-02 4.46e-02 -4.00e-02 1.71e-02 6.42e-03 1.39e-02  
## 33 1.03e-03 -1.10e-03 2.43e-04 -7.11e-04 -1.02e-03 2.40e-04 -1.62e-04  
## 34 8.00e-03 5.49e-03 -8.44e-04 1.58e-03 2.77e-03 -1.06e-02 -1.51e-03  
## 35 -1.23e-02 1.18e-02 3.17e-02 7.25e-03 -1.87e-03 -1.79e-02 -5.53e-03  
## 36 1.93e-03 2.42e-03 4.62e-04 -3.57e-04 2.73e-03 3.19e-03 -1.48e-03  
## 37 2.05e-02 -1.33e-02 9.70e-03 -4.69e-03 -3.28e-03 9.93e-04 -1.58e-02  
## 38 -1.17e-02 -1.13e-02 -9.00e-03 1.03e-02 3.05e-04 9.51e-03 1.51e-02  
## 39 -1.10e-02 -1.53e-02 1.55e-02 -1.40e-02 -1.11e-03 -1.17e-02 9.90e-03  
## 40 -1.33e-02 9.90e-03 9.55e-03 -6.89e-03 -1.07e-03 -3.11e-03 1.01e-02  
## 41 -7.72e-03 6.97e-03 1.28e-04 -6.78e-03 -6.81e-03 -7.72e-03 -1.13e-03  
## 42 -1.76e-04 1.24e-03 2.19e-04 -1.05e-04 1.25e-03 -6.33e-05 1.63e-03  
## 43 1.93e-03 -2.93e-03 4.42e-04 -2.26e-03 -2.47e-03 -2.85e-03 3.39e-04  
## 44 -1.92e-03 1.82e-03 4.02e-04 -2.40e-03 -9.35e-04 -3.61e-04 3.01e-03  
## 45 2.92e-02 -9.48e-03 -5.97e-03 -2.05e-02 1.60e-02 2.01e-03 -2.41e-02  
## 46 -1.46e-02 -1.46e-02 -1.43e-02 1.46e-02 -5.10e-04 1.53e-02 -2.34e-03  
## 47 -6.34e-03 9.98e-03 -3.32e-03 2.57e-03 4.90e-03 -5.64e-03 -5.29e-03  
## 48 7.53e-03 1.09e-02 7.78e-03 -3.88e-03 -2.86e-03 -2.49e-03 -1.11e-02  
## 49 3.61e-04 2.28e-03 -4.49e-04 2.44e-03 1.07e-03 -8.08e-04 -3.52e-03  
## 50 -7.62e-04 3.41e-03 -5.44e-05 -9.02e-05 3.58e-03 -2.26e-03 4.26e-03  
## 51 -7.95e-03 -1.58e-02 2.96e-02 1.95e-02 -6.77e-03 9.41e-03 -6.00e-03  
## 52 -2.18e-02 1.30e-02 1.07e-02 -8.97e-03 -4.16e-03 -1.26e-02 -1.12e-02  
## 53 1.99e-02 -9.66e-03 2.41e-02 -1.49e-02 8.93e-03 8.16e-04 -2.27e-02  
## 54 3.02e-04 1.04e-02 -1.98e-02 1.83e-02 -8.01e-03 5.63e-03 6.28e-03  
## 55 -1.23e-03 6.66e-04 -1.92e-03 -1.09e-04 1.15e-03 -5.10e-04 1.70e-04  
## 56 4.11e-03 -9.30e-03 -1.82e-02 -8.74e-03 3.84e-03 -3.79e-03 6.64e-03  
## 57 -1.53e-03 -7.11e-03 -4.15e-03 4.60e-04 -9.60e-03 -3.94e-03 1.12e-03  
## 58 2.33e-03 5.83e-03 1.47e-02 2.11e-03 -1.20e-02 -2.95e-03 -1.30e-03  
## 59 4.81e-04 -9.62e-04 8.89e-05 -4.54e-04 -8.10e-04 -8.34e-04 -1.20e-03  
## 60 -5.02e-03 -4.04e-03 -2.52e-03 5.58e-03 4.09e-04 -5.00e-03 1.60e-03  
## 61 4.74e-03 -1.52e-02 -1.85e-02 -1.89e-02 1.48e-02 5.88e-03 -5.31e-03  
## 62 -5.09e-03 9.29e-03 -9.94e-03 1.18e-02 4.21e-04 3.73e-03 -1.07e-03  
## 63 2.37e-03 -1.50e-03 1.04e-03 1.62e-03 -2.35e-03 -2.10e-03 -3.37e-03  
## 64 3.61e-03 -6.27e-03 5.35e-04 -4.60e-03 -6.58e-03 -4.29e-03 -1.57e-03  
## 65 3.84e-03 1.05e-02 8.55e-03 -5.75e-03 -2.10e-03 -6.27e-03 6.90e-03  
## 66 2.96e-02 -1.30e-02 -4.17e-03 4.27e-03 5.42e-03 5.24e-03 -1.29e-02  
## 67 -1.65e-02 1.02e-02 -1.14e-02 -1.47e-02 1.34e-02 -7.16e-04 5.86e-04  
## 68 5.48e-04 -4.22e-03 -1.02e-04 3.12e-03 2.47e-03 -1.25e-04 -1.40e-03  
## 69 -4.71e-04 2.07e-03 -2.78e-04 6.26e-04 1.72e-03 -1.53e-03 -9.08e-04  
## 70 -5.21e-03 1.56e-02 -9.82e-03 7.15e-03 4.29e-03 8.55e-03 1.58e-02  
## 71 -6.22e-03 8.80e-03 -9.93e-04 1.71e-03 4.23e-03 -3.99e-03 -4.08e-03  
## 72 1.24e-03 -1.13e-03 -9.56e-05 -3.69e-04 -1.11e-03 2.01e-03 1.79e-04  
## 73 -4.39e-04 4.05e-03 1.04e-02 1.62e-03 -7.27e-03 -6.82e-03 8.00e-04  
## 74 -2.71e-04 -3.49e-04 4.23e-05 3.61e-05 3.20e-04 -4.66e-04 4.32e-04  
## 75 2.11e-02 -8.87e-03 2.82e-03 1.40e-02 -2.09e-02 -2.59e-03 -6.46e-03  
## 76 -1.20e-03 -8.08e-03 1.73e-02 1.27e-02 -2.69e-03 -2.18e-03 -1.71e-03  
## 77 -7.69e-03 -5.29e-03 -1.96e-03 4.63e-03 1.56e-03 2.75e-03 4.27e-04  
## 78 5.63e-03 -7.35e-03 -4.08e-05 -6.74e-03 -7.30e-03 -2.02e-03 -2.88e-03  
## 79 1.61e-02 1.11e-02 2.59e-02 1.10e-02 -1.81e-03 1.06e-02 -8.91e-03  
## 80 5.02e-03 -3.02e-03 -5.69e-04 -1.05e-03 -3.21e-03 2.07e-03 -4.39e-03  
## 81 5.16e-03 1.22e-02 2.53e-03 -1.74e-02 2.72e-02 -2.21e-03 -1.18e-02  
## 82 7.12e-03 -1.25e-02 -2.94e-03 -1.00e-02 -1.39e-02 -5.82e-03 1.70e-02  
## 83 4.14e-04 1.38e-02 1.41e-02 2.78e-02 -1.76e-02 6.11e-03 -1.57e-02  
## 84 1.67e-02 -9.92e-03 -7.40e-03 1.00e-02 7.69e-04 7.76e-03 9.65e-03  
## 85 1.77e-04 -2.74e-04 -1.25e-04 -4.16e-04 4.82e-04 1.37e-04 8.58e-05  
## 86 1.86e-02 2.37e-02 -2.02e-02 1.18e-02 4.57e-03 9.77e-03 -1.94e-02  
## 87 1.67e-03 -6.04e-03 -3.53e-03 -9.85e-03 9.48e-03 -2.38e-03 -2.54e-04  
## 88 -4.02e-04 2.05e-03 -2.89e-04 6.68e-04 1.71e-03 -8.02e-04 -9.56e-04  
## 89 1.29e-04 -4.79e-04 3.62e-05 -1.93e-04 -3.94e-04 3.70e-04 1.47e-04  
## 90 -1.65e-02 9.83e-03 -8.92e-03 -1.97e-02 1.54e-02 4.97e-03 1.72e-02  
## 91 -4.58e-03 9.96e-03 -5.38e-03 -5.21e-03 -1.35e-02 1.47e-03 1.47e-02  
## 92 -2.61e-02 1.70e-02 4.24e-02 9.14e-03 -3.66e-03 1.51e-03 1.86e-02  
## 93 -1.03e-03 -1.45e-03 -1.27e-05 -2.40e-05 1.66e-03 1.80e-04 2.36e-03  
## 94 9.36e-03 -7.16e-03 -7.24e-03 1.02e-02 -1.96e-04 1.71e-03 -1.99e-03  
## 95 -3.30e-03 3.53e-03 -2.99e-03 5.56e-03 6.78e-04 -5.32e-03 3.37e-05  
## 96 3.19e-03 1.40e-02 1.12e-02 -7.92e-03 -3.41e-03 -2.85e-03 6.66e-03  
## 97 -1.65e-03 -2.79e-03 4.59e-04 5.51e-05 3.20e-03 -3.04e-03 3.63e-03  
## 98 -2.24e-02 -2.49e-02 4.30e-03 -7.40e-03 -1.37e-02 2.68e-02 5.85e-03  
## 99 8.97e-04 -1.67e-03 2.00e-04 -1.66e-03 -1.13e-03 -1.71e-03 -6.80e-04  
## 100 -1.50e-02 1.34e-02 -2.51e-02 1.90e-02 -9.13e-03 -7.19e-03 -9.35e-03  
## 101 5.79e-03 5.91e-03 -8.59e-04 1.43e-03 3.32e-03 -8.56e-03 -1.72e-03  
## 102 9.47e-03 -5.24e-03 5.22e-04 -5.20e-03 -5.04e-03 -9.44e-03 -1.13e-03  
## 103 -8.43e-03 9.39e-03 -5.21e-03 9.03e-03 2.54e-03 -1.67e-03 -1.12e-03  
## 104 -4.26e-03 -5.27e-03 1.01e-02 -4.32e-03 4.22e-03 6.90e-03 8.77e-03  
## 105 5.70e-03 -2.93e-02 2.62e-02 2.86e-02 -3.64e-02 5.34e-02 -5.21e-03  
## 106 -2.56e-02 1.07e-02 -5.75e-03 3.28e-03 4.39e-03 -1.55e-02 1.89e-02  
## 107 7.28e-04 -4.48e-03 -2.78e-03 7.44e-04 -5.97e-03 -1.37e-03 5.82e-04  
## 108 -1.40e-02 -6.84e-03 -2.37e-03 4.39e-03 3.13e-03 2.08e-03 1.25e-02  
## 109 -2.83e-02 1.21e-02 -1.01e-02 1.30e-02 3.02e-03 4.54e-03 -9.74e-04  
## 110 1.37e-03 -3.82e-03 -2.05e-04 2.23e-04 3.39e-03 -1.15e-02 -1.99e-03  
## 111 -3.27e-03 -2.29e-02 2.63e-02 2.83e-02 -2.70e-02 -1.11e-02 1.88e-03  
## 112 2.63e-05 2.21e-03 1.37e-04 -2.15e-03 -9.37e-04 -2.62e-03 1.13e-04  
## 113 -1.33e-03 -1.25e-02 -1.04e-02 1.15e-02 1.31e-03 1.15e-02 1.48e-02  
## 114 2.24e-02 1.60e-02 -2.61e-02 1.94e-02 -8.72e-03 -3.10e-03 1.63e-03  
## 115 -1.36e-03 -2.96e-03 -5.48e-04 -3.95e-04 -3.02e-03 2.69e-03 5.53e-03  
## 116 8.11e-03 1.68e-02 -4.81e-03 -1.44e-02 -1.64e-02 7.53e-03 1.55e-02  
## 117 -1.00e-02 -4.02e-03 -1.11e-03 3.28e-03 2.32e-03 -2.96e-03 8.86e-03  
## 118 -1.59e-02 1.08e-02 6.70e-03 8.26e-03 1.50e-02 -5.06e-03 7.77e-03  
## 119 -1.08e-04 -1.58e-04 -7.65e-06 1.22e-04 1.06e-04 1.03e-04 5.29e-05  
## 120 5.35e-03 1.32e-02 -6.71e-03 -7.85e-03 -1.68e-02 5.16e-03 -3.72e-03  
## 121 -2.20e-03 -1.09e-02 -6.99e-03 -8.28e-05 -1.49e-02 -4.33e-03 -4.50e-04  
## 122 6.64e-03 -6.14e-03 -9.74e-04 1.86e-03 3.00e-03 -5.51e-03 -1.33e-03  
## 123 1.30e-02 -1.15e-02 9.51e-03 -4.32e-03 -2.40e-03 3.00e-03 5.57e-03  
## 124 9.52e-05 -8.79e-03 8.14e-05 -7.86e-03 -8.80e-03 -3.43e-03 -2.02e-03  
## 125 8.59e-03 -5.71e-03 4.37e-04 -5.45e-03 -5.40e-03 -7.25e-03 -8.16e-04  
## 126 -1.15e-02 8.04e-03 -1.93e-03 6.00e-03 4.20e-03 -3.77e-03 1.25e-02  
## 127 1.06e-02 1.53e-02 -2.94e-02 -1.55e-02 6.89e-03 -5.23e-03 8.07e-03  
## 128 -4.31e-04 -8.08e-04 4.96e-04 8.57e-04 -1.25e-03 -1.61e-03 9.90e-04  
## 129 5.84e-03 5.81e-03 -8.17e-04 1.40e-03 3.27e-03 -8.49e-03 -1.81e-03  
## 130 -3.50e-03 5.44e-03 1.23e-02 8.78e-03 -1.15e-03 1.04e-02 9.37e-03  
## 131 -1.14e-02 -2.03e-02 -1.90e-02 1.16e-02 1.78e-03 4.15e-03 -9.54e-03  
## 132 -5.62e-02 2.07e-02 8.55e-03 1.21e-02 2.60e-02 -3.67e-03 -2.22e-02  
## 133 6.54e-03 -2.36e-03 3.18e-04 -2.96e-03 -1.27e-03 -3.27e-03 -1.34e-03  
## 134 1.30e-02 -1.54e-02 1.01e-02 -4.40e-03 -4.19e-03 2.37e-02 -2.12e-02  
## 135 2.43e-02 -1.95e-02 6.30e-03 -5.62e-03 -8.63e-03 1.91e-02 7.90e-03  
## 136 1.18e-03 -2.42e-03 -7.03e-04 2.32e-03 1.45e-03 -1.74e-05 -3.32e-03  
## 137 -5.53e-03 -1.22e-02 -8.84e-03 8.61e-03 2.67e-03 1.99e-03 1.71e-02  
## 138 1.17e-03 2.81e-03 -2.43e-04 4.81e-04 2.21e-03 -6.51e-03 -1.35e-03  
## 139 2.51e-04 -7.37e-04 -2.18e-04 -1.68e-03 1.51e-03 -1.59e-03 -2.42e-04  
## 140 1.42e-02 1.09e-02 -2.10e-02 1.97e-02 -8.10e-03 4.43e-03 -1.19e-02  
## 141 -4.57e-03 2.61e-03 -7.52e-03 -1.17e-03 4.30e-03 1.52e-03 4.46e-03  
## 142 -2.74e-02 2.01e-02 5.05e-03 -9.03e-03 -7.91e-03 -5.57e-03 4.51e-02  
## 143 -8.76e-03 -8.02e-03 -8.93e-03 -8.83e-03 1.06e-02 -1.13e-02 2.22e-03  
## 144 -5.93e-03 4.87e-03 -3.96e-03 6.11e-03 1.10e-03 1.49e-03 9.12e-04  
## 145 1.27e-04 -6.97e-04 -1.62e-03 5.65e-04 -7.66e-04 -1.30e-03 8.66e-04  
## 146 -2.10e-04 -9.38e-04 -2.43e-04 2.48e-05 -1.08e-03 -1.01e-03 3.56e-04  
## 147 8.86e-04 4.33e-03 -5.32e-05 1.24e-03 3.00e-03 -8.76e-03 -4.09e-04  
## 148 1.25e-02 -1.80e-02 7.65e-03 -4.84e-03 -6.79e-03 1.92e-02 8.18e-03  
## 149 -6.85e-05 4.73e-03 9.03e-04 9.58e-03 -1.04e-02 4.76e-04 -1.73e-03  
## 150 1.91e-02 8.98e-03 -9.18e-04 -7.63e-03 -1.07e-02 5.11e-03 -7.08e-03  
## 151 2.35e-02 -1.26e-02 -4.99e-04 -1.14e-02 -1.45e-02 9.42e-04 -9.45e-03  
## 152 7.68e-03 -9.88e-03 7.97e-03 -4.75e-03 -2.36e-03 -7.95e-03 6.59e-03  
## 153 2.81e-03 -2.88e-03 -1.74e-03 6.10e-04 -3.97e-03 -3.40e-03 -5.92e-05  
## 154 -2.88e-03 -4.24e-03 -8.03e-04 3.35e-04 4.08e-03 -9.04e-04 -4.26e-04  
## 155 8.07e-03 -5.23e-03 4.18e-04 -4.86e-03 -4.94e-03 -5.98e-03 -9.35e-04  
## 156 -1.40e-03 -1.72e-02 -1.02e-02 -1.27e-02 -2.43e-02 -3.21e-03 2.16e-02  
## 157 -4.70e-03 -1.77e-02 -1.62e-02 1.31e-02 2.41e-03 1.12e-03 -8.21e-03  
## 158 1.02e-03 2.14e-03 3.12e-04 -1.72e-03 -1.95e-03 -1.11e-03 2.15e-04  
## 159 -3.00e-03 5.12e-03 1.32e-03 -3.78e-03 -4.06e-03 -5.40e-03 -8.48e-04  
## 160 7.16e-04 4.02e-03 -2.36e-04 1.94e-03 2.77e-03 -1.05e-02 -5.46e-03  
## 161 8.93e-03 -8.12e-03 8.75e-04 1.29e-02 -1.76e-02 1.05e-04 -3.58e-03  
## 162 1.39e-02 1.65e-02 1.65e-02 3.01e-02 -2.21e-02 -3.95e-03 1.37e-03  
## 163 -2.31e-02 -1.90e-02 -1.32e-02 6.04e-03 4.27e-03 -3.66e-03 2.17e-02  
## 164 5.42e-04 1.32e-03 -4.35e-04 1.45e-03 5.09e-04 -4.71e-04 -2.23e-03  
## 165 2.57e-03 -3.53e-03 6.23e-04 -3.01e-03 -2.94e-03 -5.02e-03 2.74e-04  
## 166 2.17e-03 -2.35e-03 1.01e-03 3.11e-03 -4.27e-03 -7.13e-03 -1.15e-03  
## 167 1.30e-02 1.32e-02 9.90e-03 -5.27e-03 -2.66e-03 6.43e-03 -1.66e-02  
## 168 -5.46e-03 -3.50e-03 1.76e-03 3.20e-03 -4.88e-03 1.56e-03 5.39e-03  
## 169 -2.63e-05 -2.12e-02 -4.01e-02 2.36e-02 -1.44e-02 -4.43e-02 -3.08e-02  
## 170 6.74e-03 -4.18e-03 1.14e-04 -3.32e-03 -4.13e-03 -1.98e-03 -4.46e-04  
## 171 -8.73e-04 5.68e-03 -3.67e-03 -7.93e-03 7.30e-03 -4.53e-05 8.32e-03  
## 172 -1.81e-02 8.64e-03 8.98e-03 1.88e-02 -1.18e-02 -7.69e-03 9.51e-03  
## 173 2.36e-03 8.04e-03 -1.91e-03 -1.49e-02 1.35e-02 -4.88e-03 -2.93e-03  
## 174 9.99e-03 2.25e-02 2.28e-02 2.67e-02 -2.54e-02 7.53e-03 -3.26e-02  
## 175 1.02e-03 -1.50e-03 -2.41e-04 1.11e-03 8.50e-04 5.72e-05 1.51e-04  
## 176 8.21e-03 -4.83e-03 -3.11e-03 -8.01e-03 7.05e-03 4.23e-03 -8.27e-03  
## 177 1.67e-02 1.21e-02 -2.38e-02 -9.64e-03 4.61e-03 -1.32e-03 5.28e-03  
## 178 1.50e-02 1.48e-02 -3.67e-02 -1.17e-02 3.68e-03 2.85e-03 -1.92e-02  
## 179 4.34e-02 -1.80e-02 -1.43e-02 -1.13e-02 -2.71e-02 5.23e-03 -1.66e-02  
## 180 6.33e-04 7.72e-04 -4.74e-04 -1.03e-03 1.18e-03 1.86e-03 1.19e-04  
## 181 1.29e-02 2.07e-02 1.04e-02 -6.10e-03 -7.57e-03 4.13e-02 -3.04e-02  
## 182 -1.31e-02 -1.25e-02 -3.44e-03 2.89e-03 4.56e-03 -8.73e-03 -3.80e-03  
## 183 1.02e-02 -1.32e-02 1.04e-02 -6.58e-03 -2.19e-03 1.15e-03 6.38e-03  
## 184 4.17e-03 4.81e-03 -4.85e-05 -2.08e-03 -5.06e-03 1.56e-04 -1.66e-03  
## 185 1.34e-04 1.59e-02 1.22e-02 -8.25e-03 -3.31e-03 -6.05e-03 -1.55e-02  
## 186 1.56e-02 1.87e-02 1.44e-02 3.85e-02 -2.41e-02 3.88e-02 -2.73e-02  
## 187 -4.30e-03 9.68e-03 -5.14e-03 4.96e-03 3.60e-03 4.26e-03 -3.71e-03  
## 188 -1.40e-02 9.75e-03 -3.18e-03 2.25e-03 3.97e-03 -1.33e-02 1.64e-02  
## 189 1.85e-03 -3.53e-03 -2.01e-04 1.54e-03 2.17e-03 -4.38e-03 -1.05e-04  
## 190 -4.04e-04 -7.02e-03 -5.82e-03 -1.05e-02 8.99e-03 3.16e-03 -1.13e-02  
## 191 3.23e-03 3.84e-03 -3.61e-04 -1.35e-03 -4.33e-03 -9.05e-05 -5.93e-03  
## 192 -8.39e-03 -1.33e-02 1.32e-02 2.47e-02 -1.58e-02 -5.58e-03 -1.01e-02  
## 193 -2.90e-04 3.98e-03 -2.32e-04 2.27e-04 3.42e-03 -9.12e-03 -2.03e-03  
## 194 9.00e-05 2.09e-04 8.32e-05 -5.37e-05 2.50e-04 3.67e-04 -7.61e-05  
## 195 7.19e-04 -2.94e-03 -3.33e-04 6.79e-04 2.50e-03 -4.90e-03 -1.34e-03  
## 196 1.82e-02 -1.18e-02 -1.01e-02 -2.44e-02 1.85e-02 1.09e-02 1.45e-02  
## 197 3.46e-03 3.18e-03 1.19e-04 -1.81e-03 -2.57e-03 -5.84e-03 -4.39e-03  
## 198 7.11e-03 8.34e-03 -7.80e-03 1.06e-02 -1.76e-04 4.83e-03 -2.94e-03  
## 199 -3.99e-04 1.69e-03 -7.93e-04 3.46e-04 -2.31e-03 -3.09e-03 6.39e-04  
## 200 5.97e-03 5.14e-03 1.84e-03 7.47e-03 -1.11e-02 -7.39e-03 -1.19e-03  
## 201 6.39e-03 -1.12e-02 -8.65e-03 -2.09e-02 1.74e-02 2.17e-04 1.69e-02  
## 202 1.47e-03 -1.33e-02 -8.32e-03 6.36e-03 3.46e-03 6.10e-03 1.59e-02  
## 203 -3.00e-03 1.79e-03 -7.87e-04 4.14e-04 -2.41e-03 -2.15e-03 8.83e-04  
## 204 -1.10e-02 1.66e-02 -4.28e-03 2.80e-02 -3.96e-02 3.54e-03 1.82e-02  
## 205 -2.38e-02 8.92e-03 -7.34e-03 8.72e-03 1.50e-03 1.09e-02 1.56e-02  
## 206 -7.08e-03 -8.45e-03 -4.64e-03 6.65e-03 2.66e-03 -1.46e-03 1.36e-02  
## 207 -3.84e-04 -2.70e-03 3.88e-04 -2.98e-05 2.89e-03 -2.49e-03 -5.45e-03  
## 208 1.77e-02 -1.26e-02 8.43e-03 -4.12e-03 -3.23e-03 -3.10e-03 -1.35e-02  
## 209 -2.70e-02 1.51e-02 9.04e-03 -1.04e-02 -3.44e-03 -2.34e-02 -1.37e-02  
## 210 1.27e-03 3.71e-03 -3.31e-03 -4.33e-03 4.58e-03 -1.14e-03 5.24e-03  
## 211 9.82e-03 -1.86e-02 8.01e-03 -5.57e-03 -6.64e-03 2.17e-02 7.89e-03  
## 212 -2.15e-02 -1.35e-02 -5.90e-03 3.21e-03 4.19e-03 -2.25e-02 2.01e-02  
## 213 2.24e-03 -2.27e-03 -8.71e-04 -5.42e-03 4.66e-03 -6.44e-03 -1.05e-03  
## 214 1.25e-03 -1.58e-03 1.64e-04 -9.72e-04 -1.39e-03 -5.77e-05 2.06e-04  
## 215 -2.73e-02 1.85e-02 3.36e-02 -2.71e-02 1.21e-02 2.80e-03 -5.85e-03  
## 216 1.26e-02 -5.63e-03 -5.86e-03 -7.27e-03 7.32e-03 7.70e-03 7.43e-03  
## 217 3.95e-03 -4.39e-03 4.15e-05 1.49e-04 4.26e-03 -7.89e-03 -9.88e-03  
## 218 -1.53e-04 -1.03e-03 5.56e-04 1.16e-03 -1.56e-03 -4.86e-04 -1.95e-03  
## 219 -4.80e-04 -4.02e-04 5.40e-05 -1.50e-05 4.57e-04 1.65e-04 6.67e-04  
## 220 -7.54e-03 -1.85e-02 -1.40e-02 9.11e-03 4.28e-03 -1.04e-03 2.01e-02  
## 221 1.69e-02 1.33e-02 9.41e-03 -4.59e-03 -2.88e-03 1.44e-03 -1.57e-02  
## 222 -3.51e-04 2.06e-03 1.15e-03 2.30e-03 -3.42e-03 -4.09e-03 2.31e-03  
## 223 7.37e-03 5.42e-03 6.92e-04 -5.47e-03 -4.75e-03 -1.42e-02 -5.48e-04  
## 224 1.08e-02 -2.15e-02 8.38e-03 4.94e-02 -3.38e-02 1.09e-02 7.60e-03  
## 225 6.80e-03 -4.40e-03 -7.18e-04 2.17e-03 2.58e-03 -8.33e-03 -6.96e-04  
## 226 -7.81e-03 1.15e-02 -5.59e-03 7.33e-03 5.22e-03 -2.58e-03 1.72e-02  
## 227 1.05e-02 -5.67e-03 5.00e-04 -2.97e-03 -6.04e-03 2.52e-03 -2.30e-03  
## 228 4.92e-03 1.94e-02 9.96e-03 3.93e-02 -2.76e-02 1.19e-02 8.73e-03  
## 229 -3.20e-03 1.50e-02 -1.17e-02 1.11e-02 9.72e-04 7.84e-03 -5.50e-03  
## 230 2.59e-03 -1.51e-03 4.70e-05 -3.81e-04 -1.59e-03 -1.31e-03 -2.65e-03  
## 231 -3.57e-04 5.22e-03 -2.41e-03 5.70e-03 1.88e-03 -4.40e-03 -1.94e-04  
## 232 3.83e-03 6.13e-03 -3.74e-03 5.76e-03 8.76e-04 5.40e-03 7.37e-03  
## 233 2.64e-03 -1.34e-02 8.26e-03 -4.10e-03 -3.69e-03 -7.60e-03 -1.13e-02  
## 234 2.05e-03 3.40e-03 6.20e-04 -4.12e-03 -2.04e-03 -9.59e-03 -1.61e-03  
## 235 7.61e-03 -5.35e-03 -2.02e-03 3.63e-03 2.14e-03 3.68e-03 -9.23e-03  
## 236 -4.89e-03 -1.77e-02 9.58e-03 -5.41e-03 -6.74e-03 1.22e-02 3.97e-02  
## 237 -2.00e-02 -9.13e-03 -1.31e-03 2.98e-03 5.03e-03 -1.84e-02 1.66e-02  
## 238 -1.80e-02 1.74e-02 -1.94e-02 -3.21e-02 2.14e-02 -2.26e-03 -6.26e-03  
## 239 -3.50e-03 9.84e-03 -2.16e-02 -8.29e-03 3.32e-03 -6.19e-03 -7.20e-03  
## 240 -1.40e-03 2.00e-03 1.26e-04 9.56e-04 1.61e-03 -3.10e-03 3.62e-04  
## 241 -3.00e-04 2.77e-03 8.33e-04 -3.85e-03 -9.33e-04 1.07e-03 3.69e-03  
## 242 -4.00e-04 3.70e-04 -2.19e-04 5.68e-04 9.04e-05 -5.29e-04 9.58e-05  
## 243 4.97e-03 -3.30e-03 2.13e-04 -1.33e-03 -3.65e-03 4.48e-04 -7.13e-04  
## 244 -1.69e-04 -5.17e-03 9.39e-03 -4.16e-03 2.92e-03 4.11e-03 7.01e-03  
## 245 8.18e-03 -1.22e-02 2.90e-02 9.12e-03 -2.66e-03 -1.53e-03 -8.95e-03  
## 246 -2.44e-02 1.72e-02 3.99e-02 1.09e-02 -2.97e-03 1.50e-03 1.91e-02  
## 247 -8.02e-03 6.66e-03 -3.66e-03 6.86e-03 2.30e-03 5.57e-03 -1.31e-02  
## 248 1.58e-02 -1.45e-02 -3.07e-02 -1.11e-02 4.18e-03 -3.64e-03 -1.47e-02  
## 249 -1.53e-03 -2.08e-02 5.86e-03 -5.32e-03 -9.50e-03 1.34e-02 1.19e-02  
## 250 1.45e-03 9.95e-03 -7.54e-03 9.86e-03 2.14e-03 -1.39e-03 -3.09e-03  
## 251 1.55e-03 -6.46e-03 -5.85e-03 -8.62e-03 9.06e-03 1.64e-03 9.20e-03  
## 252 2.08e-02 1.58e-02 5.72e-03 1.46e-02 1.85e-02 5.35e-03 -2.07e-02  
## 253 9.02e-03 -1.64e-02 -3.60e-02 3.08e-02 -1.61e-02 2.72e-02 -2.05e-02  
## 254 8.57e-03 5.57e-03 1.07e-03 1.10e-02 -1.20e-02 1.31e-03 -1.21e-02  
## 255 9.90e-03 6.74e-03 -1.85e-03 2.40e-03 3.26e-03 -4.65e-03 -2.46e-03  
## 256 1.10e-04 -1.48e-03 -2.81e-04 -6.74e-05 -1.56e-03 1.08e-03 2.59e-03  
## 257 2.28e-04 -5.59e-04 -1.16e-04 3.46e-05 -6.63e-04 -7.84e-04 1.23e-04  
## 258 3.68e-03 5.17e-03 -2.64e-03 5.70e-03 1.36e-03 -1.37e-03 -1.28e-03  
## 259 -1.53e-03 1.96e-02 1.25e-02 4.09e-02 -2.69e-02 2.79e-02 8.11e-03  
## 260 8.54e-03 -1.22e-02 2.45e-02 -1.70e-02 8.90e-03 4.85e-03 1.49e-02  
## 261 5.46e-03 -1.40e-02 -3.30e-02 -9.40e-03 4.68e-03 1.76e-02 -1.61e-02  
## 262 -8.35e-03 -9.23e-03 -1.69e-02 -8.05e-03 3.34e-03 -7.08e-03 8.75e-03  
## 263 -8.49e-03 1.24e-02 2.01e-02 -1.24e-02 6.52e-03 8.34e-03 -3.12e-03  
## 264 4.13e-04 -3.99e-03 -1.02e-03 3.28e-03 2.49e-03 -3.81e-03 7.75e-03  
## 265 7.50e-03 -6.52e-03 -5.13e-03 -9.31e-03 9.38e-03 7.58e-04 -2.34e-03  
## 266 -3.83e-03 3.32e-03 -3.59e-04 1.21e-04 3.20e-03 6.70e-04 5.21e-03  
## 267 9.31e-06 -6.72e-05 1.46e-05 -6.77e-05 -4.22e-05 -4.04e-05 8.32e-05  
## 268 2.37e-02 -1.49e-02 3.86e-02 1.42e-02 -4.04e-03 2.15e-02 1.17e-02  
## 269 3.46e-02 -3.16e-02 3.99e-03 -3.42e-02 -2.34e-02 -7.83e-02 -1.19e-02  
## 270 -1.15e-04 1.93e-04 1.25e-04 2.21e-04 -3.14e-04 -4.29e-04 2.43e-04  
## 271 -2.57e-03 1.23e-02 -2.87e-02 -1.03e-02 4.51e-03 -1.09e-02 -1.02e-02  
## 272 1.29e-03 -2.75e-03 8.58e-04 3.74e-03 -4.45e-03 -1.12e-03 -6.37e-04  
## 273 3.19e-02 -1.91e-02 9.75e-03 -5.70e-03 -6.96e-03 4.46e-02 -3.18e-02  
## 274 9.11e-03 1.94e-02 3.57e-02 -2.72e-02 1.37e-02 1.07e-02 -1.16e-02  
## 275 3.15e-02 -1.34e-02 8.61e-03 -3.85e-03 -4.36e-03 -7.49e-04 -1.79e-02  
## 276 -5.97e-03 -1.52e-02 1.30e-02 2.87e-02 -1.86e-02 -1.46e-03 7.70e-03  
## 277 -1.82e-02 2.01e-02 2.55e-02 2.41e-02 -2.03e-02 -2.10e-03 8.02e-03  
## 278 1.74e-02 1.13e-02 2.25e-02 -1.54e-02 8.92e-03 -1.94e-03 -7.26e-03  
## 279 1.29e-02 1.34e-02 -6.82e-03 6.50e-03 3.60e-03 2.30e-03 1.41e-02  
## 280 6.46e-04 -9.67e-03 -3.46e-03 3.54e-03 3.93e-03 -8.80e-03 -4.04e-03  
## 281 2.83e-03 -8.39e-03 -2.05e-03 2.86e-03 4.29e-03 -5.42e-04 -4.02e-03  
## 282 -3.82e-03 -1.01e-02 -3.59e-03 3.78e-03 3.91e-03 -2.23e-03 -3.39e-03  
## 283 1.25e-02 -7.74e-03 1.62e-03 1.07e-02 -1.55e-02 -1.05e-02 -1.37e-02  
## 284 -1.68e-03 -2.18e-03 -1.11e-03 2.41e-03 4.56e-04 5.40e-03 -2.98e-03  
## 285 3.42e-03 -1.41e-02 7.26e-03 1.01e-02 1.96e-02 -1.26e-02 -1.54e-02  
## 286 -2.95e-02 -1.57e-02 -1.22e-02 1.08e-02 3.63e-03 -1.22e-02 3.27e-05  
## 287 -5.99e-03 -1.09e-02 -4.69e-03 5.32e-03 2.92e-03 6.50e-04 -3.42e-03  
## 288 2.52e-02 -1.42e-02 1.23e-02 3.06e-02 -1.97e-02 6.23e-03 -1.85e-02  
## 289 1.32e-02 -1.34e-02 -2.85e-02 -8.99e-03 3.54e-03 -1.06e-04 -1.27e-02  
## 290 1.12e-02 -1.97e-02 8.93e-03 -8.08e-03 -6.73e-03 1.38e-02 8.26e-03  
## 291 2.24e-02 -1.26e-02 -2.59e-02 -1.25e-02 5.44e-03 -4.22e-03 4.18e-03  
## 292 -1.29e-03 2.69e-03 -6.51e-04 2.15e-03 1.50e-03 2.21e-03 -4.51e-04  
## 293 -8.87e-03 8.93e-03 -1.59e-03 -6.44e-03 -1.01e-02 2.72e-03 1.39e-02  
## 294 -5.75e-03 -2.27e-02 4.93e-02 1.70e-02 -7.95e-03 1.03e-02 1.69e-02  
## 295 5.83e-03 -5.40e-03 -9.34e-04 2.03e-03 2.59e-03 -2.15e-03 -1.24e-03  
## 296 5.79e-03 5.93e-03 -8.64e-04 1.43e-03 3.32e-03 -8.57e-03 -1.71e-03  
## 297 -5.34e-03 -1.82e-03 -5.56e-04 9.48e-05 -1.94e-03 2.26e-04 3.66e-03  
## 298 2.80e-03 1.85e-02 3.13e-02 -2.24e-02 1.03e-02 7.39e-03 -1.18e-02  
## 299 1.47e-02 9.56e-03 -4.88e-03 -3.46e-03 -1.40e-02 7.37e-03 -2.24e-02  
## 300 5.55e-03 1.53e-02 1.59e-03 -2.20e-02 3.43e-02 -3.24e-03 -1.67e-02  
## 301 -1.61e-03 1.09e-02 -4.47e-03 7.40e-03 4.33e-03 -6.03e-03 -4.54e-03  
## 302 -3.97e-04 5.91e-03 -1.23e-02 -4.71e-03 2.34e-03 -2.45e-03 5.36e-03  
## 303 7.05e-03 1.90e-02 -1.10e-02 6.61e-03 3.51e-03 1.57e-02 1.49e-02  
## 304 1.15e-04 3.55e-04 4.16e-05 4.56e-06 3.61e-04 -2.62e-04 -6.65e-04  
## 305 -1.52e-02 1.22e-02 -6.61e-03 2.59e-02 -3.21e-02 1.10e-02 -1.23e-03  
## 306 5.28e-05 -2.01e-04 -5.15e-06 6.25e-05 1.77e-04 -2.40e-04 2.50e-04  
## 307 2.21e-02 -1.42e-02 -2.53e-02 1.98e-02 -9.13e-03 -3.39e-03 3.75e-03  
## 308 -1.97e-03 4.70e-03 1.11e-03 -2.90e-03 -4.63e-03 -7.88e-04 -7.09e-04  
## 309 -3.93e-03 1.50e-02 3.42e-02 -9.93e-04 -2.95e-02 6.73e-03 -6.03e-03  
## 310 6.68e-03 5.15e-03 -1.12e-04 1.19e-02 -1.18e-02 2.23e-03 -1.05e-02  
## 311 1.60e-02 -6.56e-03 -1.64e-03 2.12e-03 3.07e-03 -1.42e-02 -2.81e-03  
## 312 6.78e-03 -1.23e-02 -7.03e-03 7.82e-03 2.71e-03 1.41e-02 1.42e-02  
## 313 2.01e-03 -5.23e-03 -2.24e-03 6.24e-03 2.40e-03 -4.24e-03 -6.64e-04  
## 314 -2.28e-02 -1.99e-02 3.88e-02 -3.50e-02 1.46e-02 -9.98e-03 2.19e-02  
## 315 1.15e-02 -1.16e-02 8.45e-03 -4.45e-03 -3.20e-03 -2.87e-03 -1.21e-02  
## 316 2.31e-03 4.84e-03 -1.43e-03 -7.51e-04 -5.57e-03 -2.47e-03 2.81e-05  
## 317 3.82e-04 -1.50e-03 4.23e-04 -1.84e-03 -9.06e-04 -4.44e-03 -5.03e-04  
## 318 -5.00e-02 2.88e-02 -4.20e-03 1.32e-02 2.97e-02 -7.22e-03 6.97e-03  
## 319 -2.36e-03 -1.28e-02 -2.38e-02 1.81e-02 -8.37e-03 -6.59e-03 -9.61e-03  
## 320 -2.13e-03 1.42e-02 -1.42e-02 -2.24e-02 1.67e-02 3.74e-03 -2.86e-03  
## 321 -4.32e-02 2.82e-02 -7.93e-02 -4.29e-02 3.79e-03 -1.00e-02 5.95e-02  
## 322 2.55e-06 -1.04e-03 -2.20e-04 1.73e-05 -1.10e-03 1.14e-03 1.85e-03  
## 323 -7.80e-03 1.21e-02 -5.00e-03 3.23e-03 4.59e-03 -1.32e-02 -5.92e-03  
## 324 -4.18e-03 -6.57e-03 9.76e-04 -5.63e-03 -5.73e-03 -6.73e-03 -6.96e-04  
## 325 3.12e-05 -2.09e-04 7.20e-05 -2.52e-04 -9.69e-05 -1.52e-04 -3.79e-04  
## 326 1.34e-02 -1.01e-02 -1.15e-02 -1.38e-02 1.16e-02 5.32e-03 -4.47e-03  
## 327 1.14e-03 -1.80e-02 3.92e-02 -3.13e-02 1.44e-02 5.39e-03 1.64e-02  
## 328 1.60e-02 1.14e-02 -2.46e-02 -6.91e-03 3.61e-03 3.36e-03 -1.21e-02  
## 329 -8.80e-03 -1.53e-02 3.42e-02 -4.85e-03 -2.49e-02 1.50e-03 2.09e-02  
## 330 -1.25e-02 -1.98e-02 3.90e-02 1.86e-02 -9.16e-03 -9.72e-04 -8.83e-03  
## 331 5.02e-04 -1.37e-03 1.69e-04 -7.46e-04 -1.11e-03 -2.84e-04 3.55e-04  
## 332 5.47e-03 -5.66e-03 -6.76e-04 2.01e-03 3.35e-03 -9.08e-03 -9.80e-04  
## 333 -6.28e-03 1.06e-02 -9.27e-03 1.17e-02 2.28e-03 -2.93e-03 -2.26e-03  
## 334 1.13e-02 1.21e-02 1.01e-02 -5.41e-03 -2.10e-03 1.79e-03 5.54e-03  
## 335 1.25e-02 1.28e-02 9.19e-03 -5.02e-03 -2.66e-03 -3.55e-03 6.13e-03  
## 336 -4.06e-02 -3.14e-02 9.57e-03 -7.84e-04 4.25e-02 -1.11e-02 5.18e-02  
## 337 1.41e-02 2.07e-02 1.57e-02 -2.28e-02 -5.82e-03 2.31e-02 3.30e-03  
## 338 -3.45e-03 2.53e-03 6.35e-04 -3.50e-03 -1.08e-03 4.04e-04 4.39e-03  
## 339 3.03e-03 -1.41e-02 -1.26e-02 1.25e-02 1.55e-03 7.51e-03 1.56e-02  
## 340 -1.28e-02 -2.13e-02 2.95e-02 2.45e-02 -2.29e-02 -3.64e-03 8.23e-03  
## 341 1.16e-03 -5.39e-03 1.41e-02 5.14e-03 -1.05e-03 2.84e-03 -1.98e-03  
## 342 -7.01e-03 5.09e-03 2.04e-03 5.17e-03 -7.97e-03 1.98e-03 8.64e-03  
## 343 1.57e-03 -8.74e-04 -4.07e-04 2.35e-05 -1.17e-03 1.08e-03 -1.40e-03  
## 344 2.45e-04 -5.90e-04 1.76e-04 -6.71e-04 -3.45e-04 -2.09e-03 -1.47e-04  
## 345 1.97e-03 -1.75e-03 3.41e-04 3.34e-03 -3.53e-03 1.62e-03 1.20e-04  
## 346 -1.97e-02 -2.17e-02 4.60e-02 1.43e-02 -7.49e-03 -1.07e-02 -1.51e-02  
## 347 5.65e-04 8.89e-03 7.02e-03 -3.55e-03 -1.96e-03 -5.59e-03 -7.62e-03  
## 348 2.37e-04 3.11e-03 1.33e-03 3.69e-03 -5.30e-03 -7.83e-03 -1.45e-03  
## 349 -3.23e-03 -1.56e-02 -1.05e-02 9.11e-03 3.23e-03 4.03e-03 1.93e-02  
## 350 -2.02e-03 -3.29e-03 6.56e-03 -2.58e-03 2.27e-03 -2.23e-03 5.77e-03  
## 351 6.29e-04 1.23e-03 1.69e-04 -5.03e-04 -1.13e-03 -8.22e-04 -1.96e-03  
## 352 -1.53e-02 6.32e-03 1.85e-03 1.15e-02 -1.48e-02 -3.05e-03 -1.54e-04  
## 353 -5.64e-03 -2.26e-02 4.90e-02 1.72e-02 -7.93e-03 1.25e-02 1.67e-02  
## 354 -1.39e-02 -1.45e-02 8.70e-03 1.10e-02 1.76e-02 6.16e-03 9.09e-03  
## 355 4.82e-03 1.84e-02 -4.23e-02 -1.58e-02 3.69e-03 -5.07e-05 -2.50e-02  
## 356 5.55e-03 1.26e-02 1.05e-02 -6.60e-03 -1.65e-03 8.14e-04 -1.42e-02  
## 357 5.27e-03 -1.21e-02 2.98e-02 1.03e-02 -2.60e-03 -3.29e-03 -2.62e-02  
## 358 -5.64e-03 5.08e-03 -4.51e-03 -5.77e-03 6.78e-03 -6.48e-03 1.38e-03  
## 359 2.61e-02 -2.20e-02 -4.84e-02 3.35e-02 -1.98e-02 2.92e-03 -3.69e-02  
## 360 -6.07e-03 9.66e-03 -4.07e-03 -2.59e-03 -1.16e-02 -1.18e-03 -1.32e-03  
## 361 5.46e-03 4.70e-03 1.63e-03 7.12e-03 -1.02e-02 -4.99e-03 -1.12e-03  
## 362 -4.30e-03 -7.84e-03 -3.80e-03 7.97e-03 3.22e-03 -5.61e-03 1.24e-02  
## 363 -2.79e-03 1.59e-03 -1.15e-03 -2.34e-03 2.50e-03 2.20e-03 2.83e-04  
## 364 -2.53e-04 -1.26e-03 -2.08e-04 1.08e-03 7.85e-04 1.41e-03 3.31e-04  
## 365 -1.09e-02 1.42e-02 -8.29e-03 7.12e-03 2.72e-03 2.87e-03 1.82e-02  
## 366 -6.00e-04 -1.24e-02 8.53e-03 -6.01e-03 -2.70e-03 -6.69e-03 -1.00e-02  
## 367 1.00e-02 9.53e-03 -6.21e-03 -1.59e-02 1.23e-02 -1.12e-03 -4.19e-03  
## 368 7.45e-03 -6.17e-03 -7.58e-04 1.48e-03 3.13e-03 -8.54e-03 -1.86e-03  
## 369 -6.30e-03 6.88e-03 -8.89e-03 -7.00e-03 7.98e-03 -3.53e-03 2.32e-04  
## 370 -6.16e-04 -9.90e-04 2.99e-04 -1.92e-04 1.20e-03 1.55e-03 -1.28e-04  
## 371 4.31e-04 1.25e-03 1.16e-04 -8.24e-04 -1.19e-03 5.88e-04 2.27e-04  
## 372 5.50e-03 -9.42e-03 7.73e-03 -3.67e-03 -2.26e-03 -1.14e-03 5.70e-03  
## 373 -7.39e-03 3.00e-03 1.43e-03 5.26e-03 -5.95e-03 -2.41e-03 6.72e-03  
## 374 3.31e-03 -5.99e-03 -3.09e-03 -5.54e-04 -8.39e-03 -2.07e-03 -1.56e-04  
## 375 -1.61e-03 1.43e-02 -1.29e-02 1.25e-02 1.77e-03 8.26e-03 1.63e-02  
## 376 5.99e-03 -4.57e-03 -1.53e-03 4.56e-03 1.59e-03 1.38e-03 -9.06e-03  
## 377 -2.71e-02 1.13e-02 -5.96e-03 2.80e-03 4.65e-03 -2.04e-02 2.02e-02  
## 378 -2.66e-02 1.39e-02 1.53e-02 2.41e-02 -1.67e-02 -5.42e-03 1.03e-02  
## 379 -1.78e-03 2.03e-03 3.11e-04 -2.60e-03 -1.02e-03 -2.77e-04 3.37e-03  
## 380 -2.01e-02 1.32e-02 -6.63e-03 7.80e-03 4.41e-03 2.17e-04 -1.80e-03  
## 381 -4.70e-04 -7.22e-03 -6.14e-03 -1.14e-02 9.82e-03 1.03e-04 1.16e-02  
## 382 1.40e-02 -2.00e-02 6.85e-03 -4.89e-03 -9.71e-03 1.16e-02 9.50e-03  
## 383 -4.18e-04 -6.00e-04 -1.63e-03 -2.14e-04 9.43e-04 -2.16e-04 -1.04e-03  
## 384 -3.37e-03 -1.07e-02 9.03e-03 -3.93e-03 -1.95e-03 -1.42e-03 7.34e-03  
## 385 -8.68e-03 1.09e-02 -8.74e-03 1.27e-02 2.71e-03 -1.26e-02 1.63e-04  
## 386 -2.46e-02 -2.43e-02 -6.18e-02 4.39e-02 -2.60e-02 2.28e-02 7.87e-03  
## 387 8.02e-03 2.17e-02 -3.37e-02 2.00e-02 -1.05e-02 -7.53e-03 4.16e-03  
## 388 4.15e-03 -4.04e-03 -1.64e-03 3.65e-03 1.57e-03 3.42e-03 6.16e-03  
## 389 -1.19e-02 1.29e-02 -1.43e-02 1.41e-02 -4.24e-04 1.20e-02 -4.37e-03  
## 390 -9.69e-03 9.10e-03 1.91e-03 1.40e-02 -2.17e-02 -9.68e-03 -3.60e-03  
## 391 2.72e-03 -1.82e-02 -1.83e-02 1.56e-02 9.31e-04 3.78e-03 -9.11e-03  
## 392 3.52e-02 1.27e-02 2.53e-02 -1.60e-02 8.97e-03 1.35e-03 -3.03e-02  
## 393 -7.45e-03 -1.49e-02 3.55e-02 8.14e-03 -2.93e-03 -1.57e-02 -8.09e-03  
## 394 4.85e-03 -4.84e-03 -9.79e-04 2.23e-03 2.23e-03 9.51e-04 -9.12e-04  
## 395 -6.19e-03 -1.82e-02 2.93e-02 -1.99e-02 9.35e-03 5.51e-03 -7.24e-03  
## 396 -2.85e-03 1.88e-03 5.21e-04 -2.65e-03 -8.05e-04 5.97e-04 3.23e-03  
## 397 2.85e-02 1.58e-02 2.80e-02 -1.73e-02 9.10e-03 1.40e-03 -1.06e-02  
## 398 1.56e-02 1.98e-02 1.63e-02 -1.52e-02 -3.02e-03 -1.26e-02 -2.58e-02  
## 399 6.77e-03 1.18e-02 2.93e-02 1.28e-02 -4.24e-03 1.22e-02 1.32e-02  
## 400 1.60e-03 -2.43e-03 3.18e-04 -1.70e-03 -2.06e-03 -8.56e-04 2.50e-04  
## 401 9.92e-04 -1.36e-03 -2.08e-04 1.01e-03 7.77e-04 6.52e-05 8.67e-05  
## 402 2.43e-03 -3.43e-03 -2.01e-04 1.51e-03 2.12e-03 -5.70e-03 -6.73e-05  
## 403 -1.09e-03 -2.09e-02 2.00e-02 -3.31e-03 3.83e-02 -1.06e-03 2.36e-03  
## 404 2.15e-03 3.73e-03 1.46e-03 4.46e-03 -5.35e-03 -5.32e-03 -1.45e-03  
## 405 -5.31e-04 3.18e-03 -1.55e-04 1.66e-03 2.33e-03 -4.14e-03 3.05e-04  
## 406 4.77e-04 -1.75e-03 5.00e-04 -2.18e-03 -1.06e-03 -5.18e-03 -6.08e-04  
## 407 -1.06e-03 5.60e-03 -3.19e-03 2.37e-04 -7.61e-03 -3.77e-03 7.75e-04  
## 408 9.46e-04 1.62e-02 3.80e-02 -3.86e-03 -3.11e-02 1.46e-02 1.57e-02  
## 409 -4.23e-02 2.42e-02 5.49e-03 -5.95e-03 -1.13e-02 3.55e-02 9.20e-03  
## 410 -3.72e-02 -2.40e-02 5.54e-03 -5.63e-03 -1.20e-02 3.61e-02 9.93e-03  
## 411 6.76e-03 -1.05e-02 -2.03e-02 -6.72e-03 2.97e-03 1.23e-03 6.36e-03  
## 412 5.96e-03 -3.21e-03 -2.26e-03 -4.90e-03 5.11e-03 2.35e-03 -5.30e-03  
## 413 -1.71e-02 -1.64e-02 -1.87e-02 -2.68e-02 1.85e-02 3.22e-03 -2.52e-03  
## 414 1.19e-03 7.57e-03 -6.27e-03 8.02e-03 5.89e-04 8.19e-03 -2.86e-03  
## 415 -1.88e-02 -1.27e-02 2.16e-02 -1.38e-02 6.77e-03 3.68e-03 1.92e-02  
## 416 -5.05e-03 -1.25e-02 -5.50e-03 -9.29e-03 -1.56e-02 -2.95e-03 1.63e-02  
## 417 -1.19e-03 1.91e-03 -1.72e-03 -1.89e-03 2.34e-03 -2.28e-03 4.46e-04  
## 418 1.61e-03 -2.54e-03 -3.64e-05 -1.08e-03 -2.21e-03 -9.38e-05 -3.29e-03  
## 419 4.94e-03 1.85e-02 9.11e-03 1.21e-02 2.36e-02 -9.08e-03 -2.17e-02  
## 420 4.51e-03 1.15e-02 -2.56e-02 -8.07e-03 4.25e-03 5.35e-03 -1.06e-02  
## 421 2.14e-02 -8.50e-03 -1.06e-03 -7.84e-03 -9.07e-03 -1.24e-02 -1.63e-02  
## 422 -1.67e-02 -1.71e-02 -1.28e-02 7.51e-03 3.32e-03 -7.85e-03 2.12e-02  
## 423 -1.36e-04 1.05e-02 -1.24e-03 2.00e-02 -2.37e-02 1.71e-03 -2.91e-03  
## 424 1.05e-03 1.88e-03 -1.61e-04 -8.25e-04 -1.90e-03 2.25e-03 -2.74e-03  
## 425 5.83e-03 -8.07e-03 -3.86e-03 4.07e-03 3.29e-03 -7.92e-03 1.14e-02  
## 426 -6.70e-03 -7.74e-03 1.45e-02 -7.44e-03 4.90e-03 7.91e-03 -1.12e-02  
## 427 1.78e-03 1.24e-02 2.09e-02 -1.08e-02 7.74e-03 -1.04e-02 -4.18e-03  
## 428 -1.13e-02 -1.93e-02 -1.12e-02 -1.45e-02 -2.56e-02 2.03e-03 -6.19e-03  
## 429 -1.89e-02 1.76e-02 -1.57e-02 1.08e-02 2.27e-03 -4.57e-03 -4.91e-03  
## 430 3.27e-04 2.60e-03 1.28e-03 3.02e-03 -3.71e-03 -3.04e-03 3.46e-03  
## 431 -5.13e-02 3.21e-02 7.29e-03 7.91e-03 3.47e-02 -1.09e-01 1.48e-03  
## 432 -1.63e-03 1.79e-03 2.30e-04 -1.18e-04 1.93e-03 -1.15e-03 -3.43e-03  
## 433 3.09e-03 8.60e-03 -1.74e-03 2.90e-03 4.05e-03 -4.05e-03 -5.47e-03  
## 434 8.73e-03 -2.04e-02 9.49e-03 -9.22e-03 -6.51e-03 1.50e-02 7.65e-03  
## 435 1.05e-04 1.12e-03 -4.30e-04 -1.78e-03 1.93e-03 3.88e-05 2.64e-04  
## 436 6.62e-03 -1.07e-02 -4.99e-03 6.51e-03 2.57e-03 4.28e-03 1.31e-02  
## 437 7.90e-04 1.23e-03 -5.11e-04 -1.97e-03 1.96e-03 1.63e-04 1.81e-04  
## 438 -6.06e-04 -1.20e-03 3.76e-04 -2.41e-04 1.49e-03 2.30e-03 -2.68e-04  
## 439 2.06e-03 1.42e-02 -1.44e-02 -2.14e-02 1.49e-02 1.65e-03 -3.84e-03  
## 440 -4.86e-04 8.86e-03 -1.16e-03 2.16e-03 3.97e-03 -1.26e-03 -5.30e-03  
## 441 4.12e-02 -1.59e-02 -7.61e-03 -1.08e-02 -2.29e-02 1.56e-02 -1.15e-02  
## 442 -5.77e-03 -1.24e-02 2.52e-02 1.76e-02 -5.71e-03 3.26e-03 -2.49e-03  
## 443 9.17e-03 -6.31e-03 -5.82e-03 -8.15e-03 8.41e-03 -4.83e-04 -1.76e-03  
## 444 7.21e-03 -9.94e-03 3.90e-04 1.69e-02 -2.18e-02 2.97e-03 -1.96e-02  
## 445 -1.95e-02 -1.36e-02 -1.32e-02 -2.05e-02 1.49e-02 8.27e-03 1.94e-02  
## 446 -9.54e-03 2.25e-02 2.30e-02 -2.76e-02 1.44e-03 -8.98e-03 6.64e-03  
## 447 2.75e-02 1.49e-02 8.48e-03 -4.08e-03 -4.11e-03 -3.99e-04 -1.76e-02  
## 448 8.12e-04 -7.40e-04 -6.45e-05 -1.66e-04 -7.14e-04 3.42e-04 -9.53e-04  
## 449 1.47e-02 2.02e-02 -1.11e-02 -1.59e-02 -2.65e-02 1.23e-02 1.56e-02  
## 450 2.54e-03 -3.06e-03 3.85e-04 -3.40e-04 3.42e-03 3.77e-03 -6.41e-03  
## 451 1.18e-04 -6.71e-04 -2.46e-04 7.26e-04 3.00e-04 1.89e-03 -8.76e-04  
## 452 1.57e-02 -9.25e-03 2.47e-02 8.11e-03 -2.26e-03 9.16e-03 -7.41e-03  
## 453 9.24e-03 5.67e-03 -5.32e-03 -7.26e-03 6.81e-03 9.30e-03 7.59e-03  
## 454 1.11e-02 1.71e-02 1.01e-02 9.42e-03 2.33e-02 -8.88e-03 -2.26e-02  
## 455 5.05e-05 2.18e-04 1.04e-04 2.75e-04 -3.59e-04 -4.00e-04 2.52e-04  
## 456 2.38e-02 -1.79e-02 -1.79e-02 1.47e-02 1.90e-03 1.46e-02 -1.59e-02  
## 457 1.82e-03 7.87e-03 -1.22e-03 -4.14e-03 -8.48e-03 -2.96e-03 9.78e-03  
## 458 3.52e-03 -3.25e-03 6.06e-04 -1.61e-03 -3.11e-03 -2.54e-03 -6.94e-04  
## 459 7.40e-03 5.95e-03 -2.34e-03 -1.31e-02 9.69e-03 -9.61e-03 -1.51e-03  
## 460 -2.37e-02 2.11e-02 -1.73e-02 7.31e-03 4.45e-03 -5.99e-03 -9.94e-03  
## 461 5.33e-03 4.50e-03 1.57e-03 6.88e-03 -9.78e-03 -4.42e-03 -1.16e-03  
## 462 2.15e-02 -1.10e-02 -9.28e-03 -2.00e-02 1.55e-02 1.09e-03 -8.12e-03  
## 463 -5.18e-03 -1.02e-02 5.89e-03 7.94e-03 1.31e-02 -6.56e-03 7.49e-03  
## 464 -6.43e-03 -9.95e-03 8.53e-03 -4.58e-03 -2.10e-03 -6.59e-03 8.30e-03  
## 465 3.79e-04 1.57e-03 3.10e-03 -9.11e-04 1.13e-03 -3.18e-03 2.30e-04  
## 466 -8.58e-03 2.94e-03 -1.45e-03 3.74e-03 1.26e-03 7.00e-03 6.93e-03  
## 467 -8.83e-03 4.88e-03 1.13e-02 -4.19e-03 4.11e-03 -5.41e-03 3.63e-04  
## 468 -7.74e-03 4.90e-03 -3.77e-03 5.09e-04 -7.32e-03 -8.63e-04 1.65e-03  
## 469 5.29e-04 1.08e-03 -4.26e-04 -1.97e-03 1.86e-03 -9.93e-04 -3.73e-04  
## 470 2.03e-03 2.25e-02 3.63e-03 1.72e-02 2.52e-02 4.14e-03 6.40e-03  
## 471 5.06e-04 -5.41e-03 1.47e-02 4.01e-03 3.82e-04 -4.20e-03 -3.89e-04  
## 472 1.95e-04 -1.69e-02 7.83e-03 -4.96e-03 -5.40e-03 1.09e-02 1.10e-02  
## 473 1.87e-02 1.49e-02 -1.11e-02 -3.00e-02 2.10e-02 4.13e-03 -1.34e-02  
## 474 5.48e-04 4.22e-03 -1.43e-03 -8.17e-03 6.53e-03 2.83e-03 -1.22e-03  
## 475 5.79e-04 1.38e-02 6.84e-03 1.38e-02 1.72e-02 3.85e-03 -1.55e-02  
## 476 1.25e-02 -1.58e-02 1.46e-02 -1.04e-02 -2.75e-03 -7.07e-03 5.68e-03  
## 477 1.44e-02 8.74e-03 2.44e-02 -2.34e-03 -1.57e-02 6.76e-03 -5.50e-03  
## 478 2.94e-02 -8.16e-03 5.78e-04 -7.80e-03 -8.99e-03 3.07e-03 -7.32e-03  
## 479 -2.91e-03 -1.21e-02 6.95e-03 -4.17e-03 -2.87e-03 -1.17e-02 -9.69e-03  
## 480 2.56e-02 1.90e-02 3.18e-03 -3.02e-02 4.25e-02 3.88e-04 -2.52e-02  
## 481 -3.23e-04 1.63e-03 5.42e-04 -1.49e-03 -1.19e-03 -3.78e-03 3.89e-04  
## 482 -2.36e-02 2.39e-02 2.36e-02 3.39e-02 -2.92e-02 -2.96e-02 -3.60e-02  
## 483 -2.28e-02 -1.97e-02 3.97e-02 1.72e-02 -8.54e-03 7.97e-03 2.19e-02  
## 484 2.55e-03 -3.17e-03 -3.24e-03 -2.96e-03 3.43e-03 -3.64e-03 -7.75e-05  
## 485 -6.79e-03 1.37e-02 6.89e-03 1.19e-02 1.68e-02 -2.59e-03 -1.33e-02  
## 486 -1.36e-02 4.69e-03 -3.13e-03 6.66e-04 -6.92e-03 -3.91e-03 2.99e-03  
## 487 1.63e-02 -1.98e-02 -2.01e-02 1.32e-02 3.56e-03 1.65e-02 -1.64e-02  
## 488 -1.61e-04 -4.65e-04 2.04e-04 -6.74e-04 -1.51e-04 1.17e-04 6.75e-04  
## 489 1.10e-02 -1.16e-02 4.05e-03 -1.76e-02 2.79e-02 3.25e-03 5.54e-03  
## 490 -2.87e-03 5.64e-03 -3.45e-03 6.76e-04 -7.46e-03 -9.23e-03 8.26e-04  
## 491 1.33e-02 -1.36e-02 -5.62e-03 4.28e-03 5.81e-03 -5.77e-03 -1.07e-02  
## 492 1.97e-03 1.37e-02 1.25e-02 3.05e-02 -2.01e-02 3.41e-03 -1.66e-02  
## 493 -2.71e-03 4.22e-03 8.93e-03 -3.92e-03 3.50e-03 1.53e-03 -7.15e-03  
## 494 5.77e-03 5.96e-03 -8.79e-04 1.44e-03 3.34e-03 -8.59e-03 -1.68e-03  
## 495 -5.78e-04 -2.21e-02 1.31e-02 -1.41e-02 -7.60e-03 1.79e-02 -2.82e-02  
## 496 2.11e-03 3.32e-03 -1.28e-03 -6.03e-03 5.03e-03 2.76e-03 -8.48e-04  
## 497 3.43e-04 3.19e-03 1.37e-03 3.77e-03 -5.41e-03 -7.70e-03 -1.56e-03  
## 498 2.13e-02 2.02e-02 -4.62e-02 -1.15e-02 3.11e-03 2.81e-02 -2.55e-02  
## 499 -3.01e-02 1.24e-02 1.24e-02 -9.52e-03 -2.53e-03 -5.31e-03 1.25e-02  
## 500 9.35e-03 1.02e-02 -4.82e-03 8.73e-03 3.22e-03 1.40e-03 -3.80e-03  
## 501 -1.31e-02 -5.22e-03 1.00e-02 -3.69e-03 4.01e-03 -3.24e-03 2.99e-03  
## 502 5.70e-05 3.30e-04 8.52e-05 -2.70e-05 3.92e-04 -2.78e-04 4.08e-04  
## 503 3.69e-03 -4.31e-03 -1.52e-03 -9.72e-04 -6.01e-03 3.72e-03 6.38e-03  
## 504 -3.60e-03 -4.17e-03 -1.07e-03 -1.05e-02 8.76e-03 -6.33e-04 6.40e-03  
## 505 -7.97e-03 1.18e-02 -2.36e-02 -1.21e-02 5.54e-03 -7.67e-03 1.05e-02  
## 506 -9.61e-03 1.68e-02 -6.44e-03 2.93e-02 -4.28e-02 6.71e-03 -1.05e-02  
## 507 -7.75e-03 -1.21e-02 9.25e-03 2.37e-02 -1.51e-02 -7.58e-03 -8.61e-03  
## 508 -1.20e-03 1.40e-02 6.05e-03 1.28e-02 1.85e-02 8.00e-04 5.00e-03  
## 509 7.43e-03 -6.34e-03 -8.23e-04 1.53e-03 3.20e-03 -8.65e-03 -1.73e-03  
## 510 1.02e-03 1.13e-02 3.05e-02 -3.81e-03 -1.80e-02 -1.74e-04 1.28e-02  
## 511 2.50e-03 9.18e-03 -9.35e-03 1.26e-02 -1.46e-04 6.72e-03 -2.25e-03  
## 512 8.07e-03 9.81e-03 -1.82e-02 1.70e-02 -6.96e-03 5.49e-03 5.26e-03  
## 513 8.46e-03 -9.18e-03 -8.35e-03 1.11e-02 -1.03e-04 2.21e-03 -2.45e-03  
## 514 1.38e-02 1.12e-02 -6.89e-03 8.05e-03 2.15e-03 7.14e-03 -5.34e-03  
## 515 -8.47e-03 -2.00e-02 1.48e-02 -2.00e-02 -1.32e-03 -1.19e-02 9.16e-03  
## 516 -1.96e-03 -2.64e-03 6.07e-05 1.54e-03 1.43e-03 1.06e-03 -1.01e-04  
## 517 -3.21e-02 -1.89e-02 3.77e-02 -3.26e-02 1.45e-02 -6.74e-03 2.28e-02  
## 518 6.64e-03 1.67e-02 -3.46e-02 2.48e-02 -1.27e-02 -6.87e-04 -2.30e-02  
## 519 5.58e-03 4.57e-03 -9.02e-04 1.91e-03 2.30e-03 -3.87e-03 -1.07e-03  
## 520 -1.41e-03 6.37e-03 -5.08e-03 7.80e-04 -9.89e-03 -3.21e-03 7.72e-05  
## 521 -8.03e-03 1.22e-02 2.59e-02 -1.84e-02 9.65e-03 1.19e-03 -2.41e-02  
## 522 -1.18e-02 8.79e-03 -7.02e-03 -1.14e-03 -1.44e-02 3.17e-03 1.27e-03  
## 523 2.48e-02 1.70e-02 1.37e-02 -1.18e-02 -2.31e-03 6.85e-04 1.95e-03  
## 524 -5.21e-03 -1.45e-02 1.81e-02 2.20e-02 -1.61e-02 -4.85e-03 8.11e-03  
## 525 -1.01e-02 5.47e-03 -3.24e-03 6.51e-03 1.84e-03 2.61e-03 9.89e-03  
## 526 2.38e-04 9.19e-04 2.36e-03 4.55e-04 -1.64e-03 -1.75e-03 1.68e-04  
## 527 -2.17e-03 5.93e-03 -2.88e-03 -7.86e-04 -7.76e-03 -1.30e-03 6.97e-04  
## 528 1.45e-04 -3.46e-04 -8.01e-05 2.10e-04 2.75e-04 3.49e-05 -1.24e-04  
## 529 -4.38e-03 -6.39e-03 1.50e-02 9.85e-03 -1.64e-03 -8.23e-03 9.15e-05  
## 530 1.64e-03 -2.10e-03 3.18e-04 -1.41e-03 -1.77e-03 -3.20e-03 5.64e-04  
## 531 1.37e-03 -3.57e-03 -2.01e-04 3.01e-04 3.16e-03 -9.94e-03 -1.94e-03  
## 532 -1.84e-02 2.05e-02 -1.45e-02 6.96e-03 5.91e-03 3.39e-03 2.01e-02  
## 533 -2.87e-03 6.20e-03 1.60e-02 2.69e-03 -1.38e-02 -5.98e-03 7.18e-04  
## 534 2.50e-03 8.65e-03 7.94e-03 -3.58e-03 -1.26e-03 -1.09e-03 5.81e-03  
## 535 -9.36e-04 2.02e-02 -1.75e-02 1.17e-02 3.75e-03 1.04e-02 -1.46e-02  
## 536 -5.82e-03 -8.95e-03 -1.17e-02 -1.03e-02 9.22e-03 5.15e-03 1.35e-03  
## 537 3.16e-03 -3.41e-03 -1.74e-04 -1.76e-03 -3.40e-03 8.71e-04 -1.00e-03  
## 538 -5.84e-03 -6.39e-03 -6.79e-03 -6.51e-03 7.17e-03 -2.40e-03 1.09e-02  
## 539 -1.05e-03 9.81e-04 3.42e-06 6.97e-05 1.06e-03 4.12e-04 -9.03e-06  
## 540 -1.19e-03 1.15e-03 3.68e-04 -2.76e-04 1.50e-03 2.23e-03 -2.11e-04  
## 541 4.64e-03 -1.57e-02 -9.02e-03 7.15e-03 3.51e-03 -4.27e-04 -3.36e-02  
## 542 7.44e-03 -6.27e-03 -7.95e-04 1.51e-03 3.17e-03 -8.60e-03 -1.79e-03  
## 543 4.39e-03 -1.16e-02 9.78e-03 -6.10e-03 -2.17e-03 1.11e-03 5.75e-03  
## 544 -1.37e-02 -2.22e-02 7.42e-03 -9.04e-03 -8.74e-03 7.51e-03 -2.84e-02  
## 545 -1.56e-02 1.18e-02 -6.00e-03 -5.42e-03 -1.55e-02 -5.44e-03 1.85e-02  
## 546 1.18e-02 -1.79e-02 1.18e-02 8.79e-03 2.49e-02 -1.85e-02 -2.64e-02  
## 547 -2.16e-05 -6.01e-03 -4.75e-03 8.05e-03 5.46e-04 -2.71e-03 1.86e-04  
## 548 2.46e-03 9.87e-03 1.73e-02 -8.62e-03 7.07e-03 -9.83e-03 -1.45e-03  
## 549 4.05e-03 4.57e-03 -9.34e-04 1.98e-03 2.46e-03 -8.96e-04 -1.12e-03  
## 550 5.68e-05 1.45e-03 -7.52e-04 3.87e-04 -1.82e-03 -2.71e-03 3.85e-04  
## 551 -4.76e-04 5.26e-04 1.83e-04 -1.28e-04 6.92e-04 9.64e-04 -1.52e-04  
## 552 8.68e-05 -2.96e-03 -3.64e-04 7.62e-04 2.47e-03 -3.05e-03 -1.29e-03  
## 553 4.47e-03 -3.80e-03 1.41e-04 -2.42e-03 -3.41e-03 -6.73e-03 -5.44e-03  
## 554 1.05e-02 -1.83e-02 1.72e-02 -1.45e-02 -2.22e-03 -2.25e-03 4.73e-03  
## 555 3.59e-03 -2.77e-03 -8.33e-04 -1.61e-04 -3.48e-03 8.43e-04 -4.75e-03  
## 556 9.47e-03 -5.29e-03 -8.18e-04 1.68e-03 2.67e-03 -1.07e-02 -1.51e-03  
## 557 4.52e-05 1.55e-03 -6.59e-05 1.17e-03 9.50e-04 1.31e-03 -2.56e-04  
## 558 -3.43e-02 1.50e-02 -1.02e-02 6.74e-03 4.21e-03 2.81e-03 2.12e-02  
## 559 6.22e-04 1.05e-02 -2.24e-03 2.18e-03 4.22e-03 -7.35e-03 -5.69e-03  
## 560 -2.55e-03 8.71e-03 -8.78e-03 -1.09e-02 1.06e-02 -4.07e-03 4.43e-04  
## 561 1.98e-02 9.30e-03 -5.40e-03 -1.91e-02 1.38e-02 -1.55e-02 -1.84e-02  
## 562 1.50e-02 1.12e-02 -5.28e-04 -9.25e-03 -1.15e-02 -2.19e-03 -7.00e-03  
## 563 -1.01e-02 7.41e-03 -4.45e-03 3.08e-04 -1.04e-02 -9.78e-03 1.40e-03  
## 564 9.69e-03 9.35e-03 -1.43e-03 3.78e-03 3.91e-03 -1.00e-03 -6.72e-03  
## 565 -3.08e-04 -4.21e-03 -2.88e-04 -1.00e-04 4.78e-03 -2.65e-03 -1.27e-03  
## 566 -1.06e-03 1.33e-02 -9.73e-04 -9.32e-03 -1.31e-02 1.60e-03 1.70e-02  
## 567 1.03e-03 -5.05e-03 1.87e-03 5.43e-03 -8.16e-03 7.09e-06 6.44e-03  
## 568 -4.35e-03 1.52e-02 1.46e-02 -1.40e-02 -6.83e-05 -9.94e-03 8.20e-03  
## 569 1.42e-03 -8.62e-03 -2.92e-03 3.69e-03 3.82e-03 -1.14e-02 1.28e-02  
## 570 -7.02e-04 1.25e-03 -1.61e-05 2.44e-04 1.11e-03 -2.17e-03 -4.27e-04  
## 571 -2.91e-03 2.04e-03 5.57e-03 2.55e-03 2.23e-05 -7.66e-04 -3.02e-03  
## 572 2.10e-03 -8.00e-03 -7.12e-04 3.74e-03 3.45e-03 -3.57e-03 -3.48e-03  
## 573 2.66e-02 -2.27e-02 2.52e-02 2.75e-02 -2.89e-02 1.28e-02 -1.68e-03  
## 574 3.20e-02 -1.64e-02 3.22e-02 -2.30e-02 1.07e-02 8.16e-03 -1.42e-02  
## 575 -2.12e-04 -7.94e-04 2.96e-04 9.99e-04 -1.26e-03 -3.43e-04 -5.44e-05  
## 576 -3.62e-03 1.11e-02 -4.37e-03 -3.86e-03 -1.27e-02 -6.83e-03 8.67e-05  
## 577 -2.87e-02 1.73e-02 -1.31e-02 7.12e-03 3.98e-03 1.38e-03 2.20e-02  
## 578 7.33e-03 1.58e-02 2.57e-02 -1.84e-02 9.82e-03 3.23e-03 -7.63e-03  
## 579 1.14e-02 7.41e-03 -1.75e-03 1.84e-03 3.70e-03 -1.05e-02 -3.02e-03  
## 580 -4.40e-02 2.89e-02 -1.79e-03 2.47e-02 2.75e-02 1.89e-02 5.18e-03  
## 581 1.85e-02 1.55e-02 8.01e-03 -4.87e-03 -5.72e-03 -4.69e-03 -1.93e-02  
## 582 -1.57e-03 8.28e-03 -1.73e-02 -6.51e-03 2.95e-03 -2.24e-03 7.67e-03  
## 583 1.54e-02 -7.01e-03 1.25e-04 -7.13e-03 -7.03e-03 -1.19e-02 -2.35e-03  
## 584 1.32e-02 -7.70e-03 -1.81e-03 2.08e-03 3.54e-03 -9.88e-03 -2.81e-03  
## 585 3.68e-03 7.13e-03 -1.51e-02 -5.04e-03 2.33e-03 -5.92e-05 5.24e-03  
## 586 -3.57e-04 7.12e-04 -1.59e-04 7.33e-04 4.37e-04 3.05e-05 -1.48e-05  
## 587 2.23e-03 3.56e-03 7.82e-04 -3.64e-03 -3.07e-03 -7.42e-03 5.38e-05  
## 588 -1.41e-03 1.49e-03 -1.48e-03 -1.40e-03 1.93e-03 -2.03e-03 4.54e-04  
## 589 -4.31e-03 -5.27e-03 -2.85e-04 -6.08e-04 5.64e-03 2.83e-03 7.62e-03  
## 590 -7.24e-04 1.48e-03 -1.20e-03 -1.37e-03 1.88e-03 -2.40e-03 5.76e-04  
## 591 9.76e-04 1.28e-03 -1.15e-04 -4.93e-04 -1.29e-03 1.42e-03 -1.87e-03  
## 592 -1.25e-03 -1.93e-03 1.96e-04 -1.28e-04 1.98e-03 1.25e-03 3.08e-03  
## 593 4.78e-03 1.12e-02 -7.75e-03 8.22e-03 2.51e-03 8.71e-03 1.15e-02  
## 594 -1.60e-02 1.05e-02 -3.49e-03 2.71e-03 4.80e-03 -8.66e-03 -3.81e-03  
## 595 -4.38e-02 2.24e-02 5.61e-03 -1.07e-02 -8.34e-03 -8.46e-03 5.45e-02  
## 596 -2.19e-03 5.26e-03 -5.83e-05 2.59e-03 3.88e-03 -4.79e-03 7.95e-03  
## 597 2.17e-03 1.28e-02 -4.08e-03 4.09e-03 4.52e-03 1.33e-03 -2.81e-02  
## 598 -1.08e-02 1.07e-02 -1.24e-02 -1.37e-02 1.26e-02 -4.72e-03 4.23e-04  
## 599 -2.66e-05 -1.12e-03 5.56e-04 1.41e-03 -1.85e-03 -2.16e-03 -4.22e-04  
## 600 -1.22e-02 1.43e-02 -8.15e-03 6.60e-03 3.12e-03 5.18e-03 1.75e-02  
## 601 8.68e-04 4.48e-03 -5.16e-05 1.22e-03 3.11e-03 -9.47e-03 -3.75e-04  
## 602 -1.27e-02 -7.40e-03 -4.65e-03 1.46e-04 -9.76e-03 9.57e-04 2.90e-03  
## 603 -5.74e-03 7.03e-03 -3.43e-03 7.56e-03 2.66e-03 -3.72e-03 -9.11e-04  
## 604 1.61e-02 -1.04e-02 -6.57e-03 1.09e-02 2.69e-03 -2.97e-03 -5.47e-03  
## 605 -2.38e-04 -3.13e-03 1.40e-03 3.15e-03 -4.73e-03 4.70e-04 4.17e-03  
## 606 4.22e-04 7.65e-04 2.11e-04 -2.93e-04 -6.86e-04 -3.37e-04 -3.75e-05  
## 607 2.46e-06 -1.51e-06 -5.39e-07 -3.45e-06 3.62e-06 -2.38e-06 -2.03e-07  
## 608 -3.38e-04 -2.67e-03 6.22e-04 -5.88e-04 3.19e-03 4.90e-03 -8.84e-04  
## 609 -9.39e-03 2.44e-02 -4.23e-02 1.65e-02 -1.19e-02 3.41e-03 4.29e-03  
## 610 6.14e-03 -1.92e-02 7.80e-03 1.89e-02 2.32e-02 2.61e-02 -2.97e-02  
## 611 -5.44e-02 2.63e-02 -4.41e-03 2.45e-02 2.69e-02 -7.70e-03 1.51e-02  
## 612 2.96e-03 -2.67e-03 -9.51e-04 -6.62e-03 5.58e-03 -8.56e-03 -1.45e-03  
## 613 1.04e-02 -1.12e-02 2.51e-02 1.71e-02 -4.03e-03 -5.27e-03 -5.99e-03  
## 614 -1.19e-03 1.43e-03 -3.23e-04 1.59e-03 6.05e-04 -2.89e-04 -2.24e-03  
## 615 -1.01e-02 -1.23e-02 -5.26e-03 5.60e-03 3.69e-03 4.07e-04 -2.19e-02  
## 616 -1.69e-02 1.23e-02 -7.90e-03 4.60e-03 3.74e-03 -1.94e-02 1.99e-02  
## 617 -2.44e-03 -7.87e-03 1.60e-02 1.23e-02 -3.83e-03 -3.92e-03 -1.34e-03  
## 618 3.87e-03 -4.62e-03 -3.59e-03 5.60e-03 5.66e-04 4.24e-03 -8.46e-04  
## 619 3.25e-03 -1.70e-02 -1.60e-02 8.95e-03 3.77e-03 -6.49e-03 -1.10e-02  
## 620 -3.33e-03 1.45e-02 3.70e-02 -8.40e-03 -2.73e-02 -2.43e-02 1.98e-02  
## 621 -3.55e-03 -5.10e-03 -4.18e-03 6.51e-03 8.26e-04 5.53e-04 9.65e-04  
## 622 -1.34e-02 1.01e-02 -5.15e-03 -4.00e-03 -1.38e-02 9.09e-04 1.67e-02  
## 623 -8.37e-04 -1.80e-03 8.52e-05 9.33e-04 1.32e-03 -2.10e-03 3.70e-04  
## 624 -4.53e-02 2.63e-02 4.77e-03 -1.04e-02 -1.29e-02 3.88e-02 6.64e-03  
## 625 6.94e-03 -1.56e-02 -1.43e-02 -2.81e-02 1.93e-02 1.18e-02 1.74e-02  
## 626 -5.18e-03 1.41e-02 -1.51e-02 -2.42e-02 1.78e-02 3.56e-03 -5.98e-03  
## 627 -4.63e-03 -8.06e-03 1.37e-02 -5.39e-03 4.70e-03 -5.22e-03 -5.42e-04  
## 628 -4.53e-03 -3.31e-03 7.15e-03 5.40e-03 -1.01e-03 -3.41e-03 8.25e-04  
## 629 1.89e-02 -1.95e-02 -3.36e-02 2.09e-02 -1.14e-02 -1.56e-03 3.80e-03  
## 630 -3.51e-02 -1.96e-02 -4.33e-02 -8.23e-04 3.82e-02 -1.83e-03 1.16e-02  
## 631 1.07e-03 -4.57e-03 -3.43e-03 -6.53e-03 6.11e-03 3.81e-03 -7.46e-03  
## 632 -5.76e-03 -5.64e-03 -2.63e-04 -8.16e-04 5.94e-03 2.84e-03 8.16e-03  
## 633 4.11e-04 3.93e-03 -2.03e-04 1.50e-03 2.67e-03 -5.28e-03 -1.24e-04  
## 634 3.79e-03 -6.17e-03 -2.35e-03 5.67e-03 2.48e-03 1.69e-03 1.01e-02  
## 635 -1.88e-02 2.53e-02 1.99e-02 -1.93e-03 3.70e-02 -1.37e-03 4.22e-03  
## 636 -1.13e-02 9.32e-03 -2.94e-03 7.78e-03 3.86e-03 -6.14e-03 1.32e-02  
## 637 -3.12e-04 5.28e-03 2.12e-03 5.91e-03 -8.33e-03 -6.29e-04 6.52e-03  
## 638 -7.67e-03 -2.26e-02 -5.23e-02 -7.12e-03 4.32e-02 1.84e-02 4.49e-03  
## 639 4.46e-03 -1.11e-02 1.25e-02 2.05e-02 -1.28e-02 2.80e-04 5.55e-03  
## 640 -2.53e-04 -2.29e-03 1.51e-04 5.71e-05 2.08e-03 -4.42e-03 2.48e-03  
## 641 1.41e-02 2.88e-02 5.75e-03 1.07e-02 3.09e-02 -2.88e-02 1.09e-03  
## 642 2.23e-03 -9.60e-03 7.05e-03 -3.33e-03 -2.29e-03 -5.16e-03 -7.18e-03  
## 643 -6.64e-03 -1.04e-02 2.17e-02 1.45e-02 -4.31e-03 -2.43e-04 1.37e-02  
## 644 1.91e-02 -7.42e-03 -1.36e-03 -5.79e-03 -8.27e-03 -6.09e-03 -1.37e-02  
## 645 1.49e-03 -9.95e-03 -1.68e-02 1.41e-02 -6.29e-03 -1.58e-03 6.83e-03  
## 646 1.58e-02 -1.74e-02 7.45e-03 -4.40e-03 -6.86e-03 1.54e-02 8.03e-03  
## 647 2.34e-03 3.84e-03 -5.87e-04 -1.11e-03 -4.89e-03 2.40e-03 -7.28e-03  
## 648 2.56e-03 9.37e-03 -2.07e-02 -6.96e-03 3.05e-03 -2.82e-03 7.78e-03  
## 649 -3.49e-02 1.39e-02 3.25e-02 1.35e-02 -4.89e-03 2.98e-03 2.01e-02  
## 650 1.20e-02 1.33e-02 9.79e-03 -5.14e-03 -2.82e-03 7.83e-03 -1.59e-02  
## 651 9.20e-03 1.31e-02 8.89e-03 -4.23e-03 -2.72e-03 -2.80e-03 -1.24e-02  
## 652 8.16e-05 -1.84e-04 -4.15e-05 1.12e-04 1.47e-04 8.57e-06 -6.93e-05  
## 653 8.94e-03 -6.61e-03 -2.08e-03 3.31e-03 2.85e-03 -1.28e-03 -1.17e-02  
## 654 -2.92e-02 2.55e-02 -6.83e-02 -1.63e-02 1.21e-03 2.77e-02 9.04e-03  
## 655 7.53e-03 1.99e-02 -1.16e-02 8.48e-03 4.25e-03 1.66e-02 1.61e-02  
## 656 -5.84e-03 -3.50e-03 9.26e-05 -2.93e-04 3.67e-03 1.91e-03 5.59e-03  
## 657 2.92e-03 2.17e-03 -1.13e-03 -2.83e-03 3.14e-03 2.63e-05 -8.38e-04  
## 658 -1.79e-02 -2.69e-02 -6.33e-03 2.85e-02 2.29e-02 6.39e-02 2.48e-04  
## 659 3.50e-03 2.46e-03 -1.35e-03 -4.01e-03 3.64e-03 2.40e-03 -1.81e-04  
## 660 2.40e-02 1.96e-02 1.02e-02 -4.96e-03 -5.30e-03 2.65e-02 -2.68e-02  
## 661 -1.29e-02 -1.14e-02 -3.46e-03 3.85e-03 3.86e-03 -1.99e-03 -2.81e-03  
## 662 5.81e-03 5.88e-03 -8.45e-04 1.42e-03 3.30e-03 -8.54e-03 -1.75e-03  
## 663 -7.66e-05 2.05e-04 -4.51e-05 -8.12e-06 -2.18e-04 7.71e-05 -2.89e-04  
## 664 -5.62e-04 3.01e-03 -3.39e-04 6.34e-04 2.53e-03 -3.67e-03 -1.36e-03  
## 665 -1.43e-02 -1.93e-02 -1.32e-02 6.73e-03 3.83e-03 4.90e-03 1.88e-02  
## 666 2.60e-02 1.50e-02 8.86e-03 -4.69e-03 -4.04e-03 1.98e-03 -1.84e-02  
## 667 -7.28e-03 7.71e-03 -6.56e-03 7.97e-03 1.27e-03 1.43e-02 1.33e-02  
## 668 2.45e-02 2.24e-02 6.42e-03 -5.98e-03 -7.90e-03 1.19e-02 6.01e-03  
## 669 8.26e-05 4.15e-04 2.45e-04 4.51e-04 -6.10e-04 -3.20e-04 -7.56e-04  
## 670 7.56e-04 -4.93e-04 -4.87e-05 -1.41e-04 -5.09e-04 7.94e-04 6.91e-05  
## 671 -3.89e-05 -7.47e-04 -2.14e-06 1.81e-04 6.54e-04 -5.77e-04 8.62e-04  
## 672 1.14e-02 1.06e-02 8.68e-03 -3.65e-03 -2.09e-03 9.55e-04 4.91e-03  
## 673 1.45e-02 7.34e-03 -3.25e-03 4.31e-03 2.79e-03 -8.83e-04 -1.37e-02  
## 674 4.85e-03 -1.92e-02 -4.22e-02 -2.60e-02 6.93e-03 -3.64e-02 -2.54e-02  
## 675 -4.05e-03 4.54e-03 1.10e-02 7.70e-03 -1.34e-03 -5.40e-03 3.93e-04  
## 676 1.27e-03 -1.41e-03 -4.81e-04 1.42e-03 6.92e-04 1.58e-03 -2.10e-03  
## 677 8.74e-03 1.68e-02 1.01e-02 -4.88e-03 -3.85e-03 2.29e-02 -2.13e-02  
## 678 1.21e-02 2.37e-02 -1.93e-02 1.07e-02 5.93e-03 2.96e-02 -1.99e-02  
## 679 -1.18e-02 1.01e-02 -1.18e-02 -1.43e-02 1.19e-02 6.38e-04 6.65e-04  
## 680 1.28e-02 -1.31e-02 5.74e-03 1.28e-02 1.66e-02 -1.21e-04 -1.53e-02  
## 681 -1.58e-04 3.35e-04 -9.05e-06 2.02e-05 3.59e-04 6.35e-05 -1.01e-05  
## 682 1.65e-02 1.10e-02 -1.29e-03 3.13e-03 5.07e-03 -1.64e-03 -7.57e-03  
## 683 2.12e-03 -1.36e-02 3.02e-02 1.76e-02 -5.51e-03 -3.13e-03 -6.55e-03  
## 684 -3.63e-02 -1.88e-02 -1.10e-02 5.19e-03 5.08e-03 1.34e-03 2.35e-02  
## 685 2.93e-03 -1.13e-02 -2.33e-03 2.40e-03 4.02e-03 -7.26e-03 -5.40e-03  
## 686 3.12e-03 2.73e-03 -1.19e-03 2.71e-03 1.20e-03 3.43e-03 -4.17e-03  
## 687 -7.64e-04 -1.97e-02 -5.09e-02 -1.14e-02 2.06e-03 1.70e-02 1.25e-02  
## 688 -1.41e-02 4.69e-03 -2.99e-03 4.74e-03 2.25e-03 8.89e-03 1.03e-02  
## 689 -1.60e-02 1.03e-02 -1.03e-02 1.20e-02 1.62e-04 7.61e-03 -1.06e-03  
## 690 1.16e-02 7.69e-03 -1.84e-03 1.81e-03 3.82e-03 -1.14e-02 -2.91e-03  
## 691 9.26e-03 5.01e-03 -3.06e-04 -2.29e-03 -4.84e-03 -2.08e-03 -8.56e-03  
## 692 -1.43e-04 -4.80e-04 -1.33e-04 -1.02e-03 1.02e-03 -7.72e-04 -1.02e-04  
## 693 8.69e-03 1.12e-02 9.63e-03 -4.75e-03 -1.97e-03 5.43e-03 5.03e-03  
## 694 4.02e-03 -6.39e-03 1.70e-02 5.21e-03 9.88e-05 -2.74e-03 -1.13e-03  
## 695 1.60e-02 -7.93e-03 -3.84e-03 -1.73e-02 1.22e-02 -1.38e-02 -2.52e-03  
## 696 -1.12e-03 -1.43e-03 9.12e-04 1.41e-03 -1.99e-03 1.08e-03 2.18e-03  
## 697 -9.05e-03 -1.89e-02 3.53e-03 1.94e-02 2.37e-02 1.86e-02 1.06e-02  
## 698 -1.11e-02 1.00e-02 2.45e-02 2.31e-04 -1.81e-02 -4.75e-03 1.56e-02  
## 699 9.05e-04 -3.79e-03 6.04e-05 -2.36e-04 4.29e-03 -1.78e-03 4.52e-03  
## 700 -1.03e-03 1.53e-03 -4.17e-04 9.55e-05 -1.87e-03 -5.54e-05 -2.41e-03  
## 701 -2.25e-02 1.33e-02 -1.17e-02 1.21e-02 2.59e-03 1.08e-02 -3.90e-03  
## 702 -1.73e-02 1.68e-02 -1.67e-02 1.32e-02 9.48e-04 8.01e-03 -6.09e-03  
## 703 1.35e-02 -7.92e-03 -1.88e-03 2.05e-03 3.65e-03 -1.07e-02 -2.76e-03  
## 704 -6.45e-03 9.67e-03 -3.30e-03 2.77e-03 4.70e-03 -4.51e-03 -4.98e-03  
## 705 -5.26e-03 1.83e-02 1.44e-02 -1.40e-02 -4.94e-03 -6.15e-03 -2.46e-02  
## 706 2.57e-03 3.33e-03 3.25e-04 -3.66e-03 -1.88e-03 -4.77e-03 -8.57e-04  
## 707 5.56e-03 1.72e-02 3.50e-02 1.69e-02 -4.18e-03 -8.21e-03 -8.98e-03  
## 708 -1.12e-02 1.32e-02 -1.43e-02 -2.27e-02 1.59e-02 2.80e-03 1.78e-02  
## 709 1.91e-02 9.81e-03 -3.74e-03 -4.63e-03 -1.23e-02 4.98e-03 -2.26e-02  
## 710 -2.54e-02 -2.50e-02 3.46e-03 -6.02e-03 -1.41e-02 3.67e-02 7.98e-03  
## 711 -2.90e-03 -1.44e-02 -1.17e-02 -2.63e-02 1.72e-02 9.21e-03 1.74e-02  
## 712 3.53e-04 -8.88e-04 -3.03e-04 1.02e-03 4.99e-04 1.13e-03 -1.18e-03  
## 713 3.95e-03 -1.44e-02 -1.65e-03 2.39e-02 -3.41e-02 1.21e-02 -4.93e-03  
## 714 7.46e-04 -1.13e-03 6.41e-04 1.36e-03 -1.97e-03 -3.27e-03 1.28e-03  
## 715 -3.93e-03 1.12e-02 -9.69e-03 1.17e-02 1.58e-03 4.71e-03 -2.50e-03  
## 716 1.31e-04 5.40e-04 3.21e-04 5.77e-04 -7.87e-04 -4.17e-04 -9.98e-04  
## 717 -1.20e-02 1.66e-02 -1.65e-02 1.39e-02 4.17e-04 4.47e-03 -4.94e-03  
## 718 7.71e-03 -1.45e-02 -1.02e-02 1.00e-02 2.34e-03 5.22e-03 1.65e-02  
## 719 -1.28e-02 8.60e-03 1.52e-02 -7.50e-03 4.18e-03 5.68e-03 9.64e-05  
## 720 2.47e-03 3.82e-03 8.86e-04 -4.05e-03 -3.27e-03 -9.04e-03 2.24e-05  
## 721 1.00e-03 -2.93e-03 -2.71e-04 5.93e-04 2.54e-03 -5.29e-03 -1.55e-03  
## 722 -5.92e-04 9.95e-03 6.72e-03 8.57e-03 1.39e-02 9.20e-04 4.98e-03  
## 723 1.29e-02 -1.83e-02 7.87e-03 -5.43e-03 -6.83e-03 1.76e-02 8.28e-03  
## 724 4.88e-03 -1.23e-02 -2.09e-02 1.57e-02 -7.36e-03 -2.96e-03 6.86e-03  
## 725 1.32e-02 8.85e-03 2.11e-02 -1.59e-02 8.79e-03 -1.03e-02 -3.29e-03  
## 726 -9.46e-04 -3.63e-03 -3.48e-04 2.23e-03 2.50e-03 -4.34e-03 -4.76e-03  
## 727 -5.94e-03 -2.00e-02 -9.58e-03 -1.75e-02 -2.46e-02 1.74e-03 2.23e-02  
## 728 -2.60e-03 1.83e-02 -4.07e-02 -2.19e-02 6.56e-03 -8.28e-03 7.75e-03  
## 729 -1.44e-05 -4.14e-04 1.57e-04 -5.33e-04 -1.51e-04 -8.92e-05 6.70e-04  
## 730 1.02e-02 2.22e-02 1.69e-02 -2.02e-02 -1.02e-04 -1.97e-02 1.85e-03  
## 731 5.27e-03 5.61e-03 -9.27e-04 1.66e-03 3.10e-03 -6.01e-03 -1.50e-03  
## 732 -9.65e-03 1.31e-02 -7.75e-03 -8.99e-03 -1.73e-02 4.62e-03 1.83e-02  
## 733 -9.75e-04 -4.07e-04 -1.42e-04 5.79e-05 -4.63e-04 -2.32e-04 3.00e-04  
## 734 -1.80e-04 -1.52e-02 -1.74e-02 -2.42e-02 1.70e-02 6.79e-04 -5.72e-03  
## 735 1.08e-03 9.71e-03 -4.55e-03 -5.32e-03 -1.36e-02 4.79e-03 1.50e-02  
## 736 7.06e-03 -1.16e-02 -7.20e-03 1.06e-02 3.26e-03 1.00e-03 -5.34e-03  
## 737 3.07e-03 -2.96e-03 1.79e-03 3.08e-03 -4.10e-03 2.41e-03 -5.94e-03  
## 738 -1.18e-02 1.37e-02 2.61e-02 1.69e-02 -6.15e-03 3.25e-03 -4.28e-03  
## 739 -3.45e-03 2.02e-03 -5.04e-03 1.39e-03 -1.90e-03 2.26e-03 3.49e-03  
## 740 -4.60e-04 -1.55e-03 -2.16e-04 1.50e-03 7.74e-04 6.80e-04 -2.33e-03  
## 741 3.46e-03 -1.63e-02 -1.06e-02 6.65e-03 4.71e-03 5.96e-03 1.66e-02  
## 742 -2.86e-03 -1.39e-02 9.15e-03 -7.28e-03 -3.87e-03 -9.73e-03 9.52e-03  
## 743 1.63e-04 -3.49e-04 -3.20e-05 -5.47e-05 -3.13e-04 5.65e-04 -4.18e-04  
## 744 -2.40e-03 -1.23e-02 -4.82e-03 4.06e-03 3.83e-03 -1.17e-02 -5.44e-03  
## 745 -1.78e-03 -4.45e-03 8.70e-03 -2.82e-03 2.98e-03 -7.03e-03 7.00e-04  
## 746 4.14e-04 8.31e-04 2.08e-03 4.16e-04 -1.46e-03 -1.54e-03 1.06e-04  
## 747 -2.82e-02 -1.99e-02 4.31e-02 1.23e-02 -5.49e-03 4.95e-03 1.91e-02  
## 748 4.29e-04 -6.40e-04 2.08e-04 1.01e-03 -1.18e-03 -7.34e-04 -2.20e-04  
## 749 -4.90e-03 -4.99e-03 -2.71e-03 5.68e-03 6.51e-04 1.29e-03 7.86e-03  
## 750 3.56e-03 -7.16e-03 -3.04e-03 4.44e-03 2.71e-03 5.29e-03 -2.33e-03  
## 751 -1.76e-03 -2.47e-03 2.94e-04 -2.52e-04 2.63e-03 3.03e-05 -1.38e-04  
## 752 2.37e-02 9.77e-03 1.51e-04 -8.15e-03 -1.06e-02 2.36e-04 -6.48e-03  
## 753 9.69e-03 -1.51e-02 -1.33e-02 -3.45e-02 2.53e-02 7.06e-03 1.64e-02  
## 754 -3.03e-03 -1.01e-02 -1.99e-02 -1.03e-02 4.44e-03 -7.46e-03 9.60e-03  
## 755 1.70e-03 -2.95e-03 5.01e-04 -3.49e-03 -1.94e-03 -7.06e-03 -1.20e-03  
## 756 7.12e-03 -6.18e-03 -8.52e-04 1.64e-03 3.09e-03 -7.33e-03 -1.63e-03  
## 757 -5.34e-03 1.47e-02 5.57e-03 -2.59e-02 3.67e-02 -4.17e-03 -1.66e-02  
## 758 1.08e-03 1.38e-03 4.25e-04 -1.49e-04 1.69e-03 1.40e-03 -8.99e-04  
## 759 5.73e-03 6.05e-03 -9.18e-04 1.47e-03 3.38e-03 -8.65e-03 -1.60e-03  
## 760 1.37e-02 1.55e-02 1.08e-02 -9.91e-03 -2.84e-03 -1.34e-02 -1.66e-02  
## 761 1.62e-02 -1.31e-02 1.25e-02 2.74e-02 -1.71e-02 5.62e-03 -1.59e-02  
## 762 2.06e-03 5.74e-03 -3.97e-04 -5.24e-04 5.89e-03 -2.24e-03 5.59e-03  
## 763 1.96e-03 -2.67e-03 -2.55e-04 5.37e-04 2.37e-03 -7.42e-03 -1.42e-03  
## 764 -1.36e-02 -1.63e-02 -9.23e-03 6.08e-03 4.65e-03 -8.23e-03 2.15e-02  
## 765 -1.42e-02 1.65e-02 -1.50e-02 1.02e-02 3.33e-03 1.12e-02 -7.49e-03  
## 766 1.77e-03 3.01e-03 -2.46e-04 1.42e-03 1.83e-03 -4.55e-03 -2.20e-05  
## 767 -1.42e-02 9.32e-03 -6.40e-03 7.76e-03 1.37e-03 1.14e-02 1.46e-02  
## 768 4.11e-04 7.15e-03 -3.07e-03 -1.30e-02 1.13e-02 -2.86e-03 -2.26e-03  
## 769 1.12e-02 6.50e-03 -1.86e-03 2.58e-03 2.89e-03 -6.27e-03 -2.08e-03  
## 770 1.14e-03 -1.09e-02 9.71e-03 -6.49e-03 -1.63e-03 -5.13e-03 7.88e-03  
## 771 -3.09e-02 2.64e-02 3.44e-03 -6.36e-03 -1.33e-02 3.60e-02 7.17e-03  
## 772 -1.27e-02 1.26e-02 1.23e-02 2.68e-02 -1.75e-02 -8.22e-03 -1.08e-02  
## 773 1.23e-02 -1.68e-02 1.68e-02 2.64e-02 -2.18e-02 -1.16e-03 -2.16e-02  
## 774 -2.54e-04 -2.44e-03 -2.49e-03 -2.15e-03 3.17e-03 -4.54e-03 6.61e-04  
## 775 -1.89e-03 -1.37e-02 -4.20e-03 -1.30e-02 -1.52e-02 -1.43e-02 1.83e-02  
## 776 6.02e-03 -1.19e-02 9.91e-03 -4.13e-03 -2.81e-03 4.33e-04 5.78e-03  
## 777 4.36e-03 -4.13e-03 -4.15e-03 -5.12e-03 5.28e-03 -1.54e-03 1.55e-04  
## 778 2.51e-02 -1.93e-02 6.44e-03 -5.58e-03 -8.44e-03 1.85e-02 6.94e-03  
## 779 -6.16e-05 -2.07e-03 4.15e-05 2.69e-05 2.27e-03 -8.84e-04 -2.53e-04  
## 780 -7.31e-03 -1.13e-02 -7.22e-04 -1.01e-02 -1.14e-02 -7.82e-03 -2.50e-03  
## 781 6.64e-03 5.72e-03 -1.03e-03 -3.61e-03 -6.16e-03 1.18e-03 -2.00e-03  
## 782 -2.89e-03 2.06e-02 4.74e-03 -4.45e-03 -7.15e-03 1.19e-02 7.93e-03  
## 783 4.60e-05 -2.18e-04 -8.40e-06 -4.81e-04 4.67e-04 -4.05e-04 -4.25e-04  
## 784 -1.31e-02 1.88e-02 -4.12e-02 -2.83e-02 6.54e-03 7.03e-04 9.56e-03  
## 785 4.93e-03 -2.68e-03 2.96e-04 -2.17e-04 2.87e-03 -1.65e-03 2.72e-03  
## 786 9.23e-03 -5.66e-03 -3.76e-03 -9.88e-03 8.09e-03 2.20e-03 -1.10e-02  
## 787 1.20e-02 -7.55e-03 -7.78e-04 -4.30e-03 -7.74e-03 -1.81e-03 -1.63e-02  
## 788 1.47e-03 -6.35e-03 1.05e-03 -8.58e-03 -3.20e-03 -3.80e-03 8.24e-03  
## 789 3.64e-05 3.02e-04 -8.34e-06 2.91e-05 2.99e-04 -1.52e-04 -5.78e-04  
## 790 8.41e-04 1.11e-03 -6.95e-04 1.51e-03 2.76e-04 1.09e-03 -1.84e-03  
## 791 2.33e-03 -3.79e-03 9.05e-04 -3.41e-03 -2.90e-03 -9.55e-03 5.07e-04  
## 792 -7.99e-05 3.96e-04 -2.41e-04 -7.55e-04 7.36e-04 1.08e-04 4.37e-05  
## 793 -5.98e-03 -1.56e-02 -8.35e-03 6.18e-03 4.59e-03 -1.43e-02 1.94e-02  
## 794 1.80e-02 1.27e-02 -6.43e-03 -2.66e-02 1.77e-02 -1.76e-03 -9.62e-03  
## 795 -2.36e-02 1.04e-02 -5.73e-03 7.96e-03 3.13e-03 -1.91e-03 1.88e-03  
## 796 1.88e-02 -6.34e-03 -1.43e-03 -4.42e-03 -7.50e-03 -5.02e-03 -1.18e-02  
## 797 9.55e-03 -5.37e-03 5.05e-04 -5.33e-03 -5.18e-03 -9.59e-03 -1.03e-03  
## 798 2.36e-02 -2.07e-02 2.06e-02 -3.02e-02 -1.54e-03 2.68e-03 4.32e-03  
## 799 -2.42e-02 -7.85e-03 1.36e-02 -5.54e-03 5.23e-03 -5.10e-03 4.42e-03  
## 800 -9.73e-03 1.08e-02 8.07e-03 -5.72e-03 -1.96e-03 -8.58e-03 9.20e-03  
## 801 1.15e-03 2.33e-03 -1.20e-05 -1.11e-03 -2.03e-03 -1.17e-04 -3.31e-03  
## 802 -2.34e-04 -1.90e-03 -7.17e-04 -2.90e-03 3.15e-03 -6.92e-04 6.18e-05  
## 803 3.20e-03 -1.30e-02 9.35e-03 -4.91e-03 -3.99e-03 -5.85e-03 -1.14e-02  
## 804 -3.23e-04 -2.24e-03 -7.13e-04 4.12e-04 -2.59e-03 -5.92e-04 -2.73e-03  
## 805 3.99e-04 6.09e-03 -1.26e-03 3.20e-03 2.24e-03 1.54e-03 -2.64e-03  
## 806 -3.61e-04 1.50e-03 -1.15e-03 -1.41e-03 1.93e-03 -1.96e-03 3.02e-04  
## 807 -3.68e-03 -1.65e-02 2.07e-02 2.36e-02 -1.85e-02 -4.09e-03 6.19e-03  
## 808 1.87e-02 -1.28e-02 9.08e-03 -3.79e-03 -3.31e-03 3.14e-03 -1.46e-02  
## 809 -2.65e-04 -2.30e-02 2.16e-02 -3.03e-02 -2.32e-03 1.33e-02 6.34e-03  
## 810 3.40e-02 -2.96e-02 1.57e-02 -4.15e-02 -8.03e-03 2.93e-02 -9.28e-03  
## 811 7.03e-05 -1.26e-03 -5.31e-04 -1.92e-03 2.16e-03 -6.69e-05 -1.55e-03  
## 812 -6.99e-03 4.69e-03 -7.79e-04 -2.55e-03 -4.90e-03 -1.35e-03 9.68e-03  
## 813 8.56e-03 6.70e-03 1.80e-02 4.22e-03 -2.43e-04 -1.15e-02 -2.47e-03  
## 814 -1.61e-02 -1.91e-02 -1.63e-02 1.29e-02 2.68e-03 1.25e-02 -7.37e-03  
## 815 2.26e-03 1.08e-02 8.31e-03 -4.07e-03 -1.64e-03 -7.29e-03 -9.40e-03  
## 816 5.57e-03 -5.31e-03 -2.06e-03 -5.90e-04 -7.13e-03 -1.50e-03 7.32e-03  
## 817 -2.70e-02 -1.54e-02 1.48e-02 2.45e-02 -1.73e-02 -1.17e-02 1.16e-02  
## 818 3.82e-05 -3.53e-05 2.54e-05 3.67e-05 -4.81e-05 1.62e-05 -1.41e-05  
## 819 5.06e-03 -9.50e-03 -1.00e-02 -1.03e-02 8.58e-03 4.16e-04 -1.20e-03  
## 820 9.58e-04 8.73e-04 1.62e-04 -2.74e-04 -8.30e-04 -4.84e-04 -1.46e-04  
## 821 -1.41e-03 1.14e-02 -1.03e-02 1.30e-02 1.93e-03 -1.61e-03 -4.85e-03  
## 822 1.67e-02 1.15e-02 -2.64e-03 4.06e-03 4.39e-03 -8.57e-04 -9.76e-03  
## 823 2.65e-04 -8.65e-04 -3.20e-04 1.03e-03 4.74e-04 1.47e-03 -1.09e-03  
## 824 -1.79e-02 1.55e-02 8.51e-03 1.07e-02 2.02e-02 -5.18e-03 -1.45e-02  
## 825 -2.91e-03 -7.88e-03 -1.26e-02 1.15e-02 -4.91e-03 1.53e-03 5.89e-03  
## 826 1.14e-02 -6.48e-03 -5.10e-04 -5.07e-03 -6.58e-03 -3.95e-03 -1.08e-02  
## 827 4.07e-02 -2.42e-02 1.26e-02 2.25e-03 3.39e-02 -6.24e-03 -4.85e-02  
## 828 5.04e-03 8.21e-03 -2.52e-03 -5.22e-03 -1.11e-02 8.70e-03 1.25e-02  
## 829 -1.27e-02 2.47e-02 2.00e-02 3.43e-02 -3.56e-02 1.16e-02 2.46e-03  
## 830 1.17e-04 5.32e-04 3.78e-05 -2.32e-04 -4.40e-04 -2.68e-04 -6.58e-04  
## 831 -7.66e-03 6.01e-03 -2.07e-04 -3.18e-05 6.74e-03 -6.85e-03 -1.43e-04  
## 832 3.82e-03 -1.43e-02 -9.85e-03 -5.50e-03 -1.90e-02 4.79e-03 -4.60e-03  
## 833 8.00e-03 1.02e-02 -2.23e-02 -6.82e-03 2.87e-03 -1.06e-03 -8.69e-03  
## 834 2.17e-03 8.22e-03 1.81e-02 1.87e-03 -1.66e-02 2.19e-03 -1.93e-03  
## 835 -1.18e-03 -3.02e-03 -1.80e-04 3.70e-04 3.69e-03 -3.13e-03 -4.48e-04  
## 836 2.74e-02 -1.88e-02 6.00e-03 -4.83e-03 -8.71e-03 1.62e-02 7.85e-03  
## 837 1.36e-02 6.00e-03 -1.70e-03 4.86e-03 1.71e-03 6.85e-03 -4.35e-03  
## 838 4.91e-04 -7.98e-04 6.04e-05 -7.02e-04 -5.67e-04 -4.33e-04 -2.74e-04  
## 839 1.91e-02 2.04e-02 -3.76e-02 -2.91e-02 9.24e-03 3.97e-03 4.21e-03  
## 840 -2.71e-03 -3.75e-03 -3.61e-03 -3.21e-03 4.59e-03 -5.58e-03 1.18e-03  
## 841 -3.93e-02 2.90e-02 -5.04e-03 2.40e-02 2.63e-02 5.79e-02 -1.48e-03  
## 842 -1.79e-03 -1.05e-02 -5.77e-03 5.11e-03 3.37e-03 -1.16e-02 1.67e-02  
## 843 2.39e-03 -9.52e-03 7.02e-03 -3.31e-03 -2.25e-03 -5.22e-03 -7.25e-03  
## 844 2.23e-03 -3.19e-03 5.11e-04 -2.56e-03 -2.68e-03 -3.39e-03 2.92e-04  
## 845 -4.54e-03 3.12e-03 4.92e-04 -4.26e-03 -1.50e-03 -4.97e-05 2.89e-04  
## 846 -2.09e-03 -4.85e-03 7.04e-04 -4.27e-03 -4.63e-03 -8.09e-03 8.71e-03  
## 847 -4.01e-03 -3.32e-03 1.76e-03 3.16e-03 -4.70e-03 2.53e-03 4.69e-03  
## 848 -6.94e-03 5.60e-03 -2.70e-04 -8.66e-04 5.86e-03 2.39e-03 7.83e-03  
## 849 -7.63e-04 8.94e-04 3.07e-04 -2.19e-04 1.18e-03 1.89e-03 -2.86e-04  
## 850 6.82e-04 1.06e-03 2.80e-04 2.31e-03 -2.13e-03 -6.98e-06 -1.73e-03  
## 851 1.01e-02 7.70e-03 -2.07e-03 2.38e-03 3.92e-03 -1.10e-02 -1.50e-02  
## 852 1.68e-02 -9.83e-03 -1.26e-03 3.35e-03 4.83e-03 8.46e-04 -7.23e-03  
## 853 1.65e-03 2.87e-03 4.87e-04 -3.34e-03 -1.75e-03 -7.34e-03 -1.33e-03  
## 854 1.96e-02 2.60e-02 1.04e-02 -5.72e-02 5.88e-02 6.85e-03 -8.48e-04  
## 855 5.70e-04 -4.20e-03 8.46e-04 -5.78e-03 -2.05e-03 8.36e-04 5.48e-03  
## 856 1.05e-02 -2.06e-02 7.07e-03 -5.38e-03 -9.61e-03 1.57e-02 9.46e-03  
## 857 -6.16e-04 -6.93e-04 -5.42e-04 -8.14e-04 9.30e-04 1.44e-04 2.47e-04  
## 858 -1.33e-03 -1.92e-03 2.45e-04 -9.47e-05 2.00e-03 -1.33e-03 -3.58e-03  
## 859 7.49e-04 2.10e-03 -2.62e-04 1.30e-03 1.29e-03 -5.13e-04 3.72e-05  
## 860 -2.93e-03 2.05e-03 -8.14e-04 2.31e-04 -2.58e-03 -1.96e-03 7.76e-04  
## 861 1.33e-02 -1.56e-02 -2.90e-02 2.43e-02 -1.17e-02 -1.06e-03 -1.67e-02  
## 862 -6.65e-03 9.41e-03 7.98e-03 -4.04e-03 -2.60e-03 -7.65e-03 -7.16e-03  
## 863 1.54e-03 -1.23e-02 1.15e-02 -8.77e-03 -1.31e-03 -4.33e-03 7.26e-03  
## 864 2.14e-03 -1.50e-02 1.17e-02 3.14e-02 -1.96e-02 -6.05e-03 -1.54e-02  
## 865 -5.81e-03 3.38e-03 -2.11e-03 -4.53e-03 5.32e-03 3.08e-03 7.13e-03  
## 866 1.28e-02 -7.65e-03 -1.90e-03 2.27e-03 3.46e-03 -8.37e-03 -2.56e-03  
## 867 6.08e-02 -2.14e-02 2.54e-02 2.82e-02 -2.75e-02 6.01e-04 -8.02e-03  
## 868 2.43e-03 6.12e-03 2.25e-03 9.16e-03 -1.14e-02 -1.73e-02 -9.21e-03  
## 869 -1.22e-04 -3.45e-04 -2.58e-04 -3.30e-04 4.67e-04 -4.00e-04 1.16e-04  
## 870 2.70e-04 6.57e-03 -3.90e-03 -4.87e-04 -9.21e-03 -1.54e-03 9.37e-03  
## 871 2.07e-03 -3.25e-03 -1.09e-03 -7.87e-03 6.55e-03 -8.95e-03 -1.58e-03  
## 872 7.70e-04 2.41e-02 1.98e-02 -2.51e-02 -3.35e-03 -5.25e-02 -3.40e-02  
## 873 -1.49e-02 8.36e-03 -1.65e-03 2.03e-02 -2.02e-02 -1.09e-02 8.42e-04  
## 874 -6.17e-03 -1.58e-02 -8.81e-03 5.13e-03 4.78e-03 -2.39e-02 2.03e-02  
## 875 -2.18e-02 1.65e-02 7.55e-03 -1.02e-02 -4.96e-03 -2.47e-02 -1.46e-02  
## 876 1.41e-03 -2.22e-03 3.59e-04 4.75e-03 -4.77e-03 2.00e-03 3.62e-03  
## 877 2.19e-04 1.71e-03 3.58e-04 -1.88e-03 -5.84e-04 -1.91e-03 2.41e-03  
## 878 3.66e-03 9.15e-03 -6.10e-03 7.06e-03 2.35e-03 3.98e-03 -1.80e-02  
## 879 -3.70e-02 -1.76e-02 8.34e-03 -7.67e-03 -5.08e-03 -2.47e-02 -8.12e-03  
## 880 7.40e-04 3.47e-03 9.76e-03 3.19e-03 2.35e-04 -1.52e-03 -3.65e-04  
## 881 7.35e-03 1.41e-02 9.36e-03 -6.28e-03 -2.63e-03 -7.91e-03 -1.28e-02  
## 882 2.01e-03 -4.29e-03 -3.87e-03 -4.34e-03 4.86e-03 -2.68e-03 4.43e-04  
## 883 -1.23e-03 -2.96e-03 -3.63e-04 -1.14e-03 -3.24e-03 2.78e-03 5.92e-03  
## 884 1.16e-02 7.59e-03 -1.79e-03 1.79e-03 3.79e-03 -1.13e-02 -3.00e-03  
## 885 -4.43e-03 -2.13e-02 4.58e-02 1.60e-02 -6.82e-03 7.61e-03 1.58e-02  
## 886 2.23e-02 -1.40e-02 3.43e-02 1.95e-02 -4.31e-03 -3.68e-03 -1.14e-02  
## 887 -1.97e-02 1.12e-02 -5.07e-03 -4.64e-03 -1.45e-02 -7.72e-04 1.93e-02  
## 888 -2.82e-02 2.64e-02 1.80e-02 -9.43e-04 3.67e-02 -1.40e-02 3.29e-03  
## 889 3.09e-03 8.57e-03 -2.66e-03 -4.39e-03 -1.10e-02 5.52e-03 -2.09e-03  
## 890 -2.77e-02 -2.01e-02 1.65e-02 2.17e-03 3.03e-02 -3.68e-03 1.00e-02  
## 891 -1.71e-02 1.58e-02 3.21e-02 1.87e-02 -8.06e-03 4.29e-03 -6.22e-03  
## 892 3.31e-02 2.12e-02 9.15e-03 -5.02e-03 -6.64e-03 3.58e-02 -3.10e-02  
## 893 -1.09e-02 -6.82e-03 -6.41e-03 -7.98e-03 7.69e-03 1.85e-03 2.78e-03  
## 894 9.97e-03 1.55e-02 -1.27e-02 1.16e-02 2.38e-03 9.02e-03 -7.63e-03  
## 895 5.03e-05 1.22e-04 -9.49e-05 -1.06e-04 1.51e-04 -2.33e-04 2.89e-05  
## 896 -1.14e-02 -8.05e-03 -5.43e-03 9.58e-03 2.21e-03 -7.33e-03 7.62e-04  
## 897 -2.56e-02 1.36e-02 8.00e-03 -8.33e-03 -4.13e-03 -1.32e-02 -1.24e-02  
## 898 5.22e-03 1.01e-02 -1.14e-02 -1.24e-02 1.08e-02 5.05e-04 -2.18e-03  
## 899 7.31e-03 -6.19e-03 -8.08e-04 1.56e-03 3.12e-03 -7.89e-03 -1.76e-03  
## 900 -6.09e-03 1.11e-02 9.16e-03 -6.90e-03 -1.89e-03 -6.34e-03 9.74e-03  
## 901 4.19e-03 -1.67e-02 9.82e-03 -9.72e-03 -5.00e-03 -1.45e-02 -1.59e-02  
## 902 4.21e-03 -5.84e-03 -5.87e-03 -7.09e-03 7.63e-03 -3.35e-03 8.81e-03  
## 903 -4.26e-04 -3.22e-03 8.29e-05 -2.05e-04 3.31e-03 2.63e-05 -6.03e-04  
## 904 -2.92e-03 -7.71e-03 -1.49e-02 -6.52e-03 3.05e-03 -4.71e-03 7.44e-03  
## 905 -2.22e-03 1.38e-02 -6.07e-03 4.74e-03 5.53e-03 -6.78e-03 -7.94e-03  
## 906 5.10e-03 8.04e-03 -1.83e-03 4.05e-03 3.35e-03 -3.67e-03 -3.20e-03  
## 907 6.27e-03 -5.12e-03 1.52e-03 7.04e-03 -9.87e-03 -3.64e-03 -9.70e-04  
## 908 -2.16e-03 -3.12e-03 -1.98e-03 4.30e-03 5.03e-04 -3.66e-03 7.56e-04  
## 909 1.29e-02 -1.41e-02 -3.00e-02 -9.77e-03 3.68e-03 -1.19e-03 -1.26e-02  
## 910 -5.86e-03 -1.84e-02 4.00e-02 1.71e-02 -5.29e-03 4.37e-03 -1.25e-02  
## 911 1.79e-04 3.61e-03 -2.42e-03 9.46e-04 -5.48e-03 -4.51e-03 7.98e-04  
## 912 1.46e-03 3.24e-03 -2.12e-04 1.41e-03 2.06e-03 -5.09e-03 -9.24e-05  
## 913 -7.94e-04 -1.28e-03 2.19e-04 -3.48e-05 1.22e-03 -2.63e-03 1.47e-03  
## 914 9.14e-03 -9.89e-03 -1.78e-02 1.71e-02 -7.14e-03 7.05e-03 5.90e-03  
## 915 -8.84e-03 -1.41e-02 3.26e-02 1.42e-02 -4.97e-03 2.95e-03 1.82e-02  
## 916 -5.40e-04 -1.47e-03 5.36e-04 -1.93e-03 -6.23e-04 -9.46e-04 -2.61e-03  
## 917 -1.13e-02 -1.68e-02 -1.48e-02 1.22e-02 1.01e-03 6.19e-03 -5.37e-03  
## 918 9.91e-03 -1.38e-02 -7.49e-03 9.25e-03 4.67e-03 9.45e-03 1.32e-02  
## 919 1.05e-04 1.28e-04 -7.91e-05 -1.60e-04 1.94e-04 2.27e-04 -1.77e-04  
## 920 4.34e-03 4.98e-03 -9.87e-04 1.96e-03 2.69e-03 -2.26e-03 -1.14e-03  
## 921 -2.05e-02 1.83e-02 -2.07e-02 -3.41e-02 2.24e-02 -2.74e-03 -5.14e-03  
## 922 4.68e-03 -3.24e-03 -2.78e-03 -3.79e-03 4.67e-03 1.69e-03 -5.94e-03  
## 923 -1.15e-02 -1.28e-02 3.01e-02 1.20e-02 -3.02e-03 7.73e-03 1.68e-02  
## 924 6.79e-03 -2.34e-03 6.06e-06 -1.25e-03 -2.89e-03 1.85e-03 -1.14e-03  
## 925 3.38e-03 9.82e-03 -2.11e-02 -7.04e-03 3.21e-03 1.49e-03 7.26e-03  
## 926 1.35e-03 1.51e-02 1.20e-02 -7.88e-03 -3.09e-03 -9.45e-03 -1.58e-02  
## 927 -1.61e-03 -3.36e-03 -1.33e-03 2.70e-04 -4.18e-03 -4.17e-03 9.73e-04  
## 928 -1.67e-02 -1.27e-02 -4.84e-03 -5.71e-03 -1.52e-02 3.88e-04 1.87e-02  
## 929 -1.30e-02 -1.34e-02 -9.50e-03 7.57e-03 3.48e-03 5.88e-04 1.77e-02  
## 930 -1.43e-02 6.16e-03 -1.85e-03 4.52e-03 3.04e-03 -4.62e-03 1.11e-02  
## 931 1.58e-03 -3.13e-03 1.36e-03 3.75e-03 -5.43e-03 -9.15e-03 -1.41e-03  
## 932 3.87e-03 7.90e-03 -1.63e-02 -5.94e-03 3.37e-03 -7.83e-05 5.95e-03  
## 933 -5.47e-03 -7.78e-03 -1.41e-03 2.87e-03 4.01e-03 -8.46e-03 1.27e-02  
## 934 -3.47e-03 -2.27e-02 4.32e-02 -3.95e-02 1.74e-02 -6.16e-03 -1.77e-02  
## 935 1.61e-03 1.28e-02 1.00e-02 -6.18e-03 -3.45e-03 -1.19e-03 6.95e-03  
## 936 4.17e-03 -5.13e-03 -5.13e-03 -5.42e-03 5.81e-03 -3.84e-03 -7.55e-04  
## 937 5.31e-03 -5.13e-03 -9.54e-04 2.12e-03 2.41e-03 -9.18e-04 -1.05e-03  
## 938 1.33e-03 -1.53e-03 5.31e-04 2.65e-03 -3.00e-03 -9.97e-04 1.93e-04  
## 939 -9.34e-03 -1.07e-02 -6.43e-04 1.52e-02 -2.17e-02 -6.36e-03 1.57e-02  
## 940 -1.71e-02 1.59e-02 -1.35e-02 1.06e-02 1.74e-03 5.76e-03 1.94e-02  
## 941 -9.96e-04 2.95e-03 1.58e-03 3.16e-03 -4.63e-03 -1.03e-03 -6.06e-03  
## 942 1.45e-02 -8.52e-03 -6.44e-03 -5.14e-04 -1.29e-02 -7.78e-04 -2.52e-03  
## 943 1.46e-02 1.31e-02 9.98e-03 -5.82e-03 -2.91e-03 7.42e-03 4.96e-03  
## 944 1.30e-02 6.64e-03 -9.12e-05 -6.92e-03 -6.92e-03 -9.79e-03 -1.91e-03  
## 945 -3.16e-03 -1.93e-02 3.93e-02 -2.53e-03 -3.50e-02 9.05e-03 -7.59e-03  
## 946 3.76e-04 -1.28e-02 -2.56e-02 -1.63e-02 6.77e-03 -8.81e-03 9.86e-03  
## 947 -8.64e-05 -1.02e-03 -1.98e-04 5.19e-04 7.98e-04 7.37e-04 -3.90e-04  
## 948 2.92e-02 -1.72e-02 -4.94e-02 -1.03e-02 2.42e-03 1.57e-02 8.68e-03  
## 949 -1.89e-02 -1.58e-02 -1.05e-02 6.38e-03 4.77e-03 5.10e-03 1.94e-02  
## 950 -9.93e-04 4.65e-03 -4.62e-04 2.33e-03 2.20e-03 3.98e-03 -1.30e-03  
## 951 5.25e-03 -5.15e-03 -3.36e-04 2.42e-03 2.16e-03 2.23e-03 -2.65e-03  
## 952 -6.79e-03 2.00e-02 -1.89e-02 1.41e-02 2.27e-03 9.96e-03 -1.15e-02  
## 953 1.49e-02 -2.03e-02 1.15e-02 4.48e-02 -3.08e-02 3.02e-02 6.97e-03  
## 954 -8.03e-04 2.69e-03 1.94e-04 -8.10e-05 2.48e-03 -5.39e-03 2.73e-03  
## 955 1.38e-03 9.04e-03 -2.21e-03 3.34e-03 4.08e-03 -2.59e-03 -4.35e-03  
## 956 1.50e-02 6.63e-03 -2.07e-03 4.41e-03 2.01e-03 3.57e-03 -1.34e-02  
## 957 -9.80e-04 -1.42e-02 -8.25e-03 -7.21e-03 -1.81e-02 8.52e-03 1.82e-02  
## 958 -8.10e-03 1.12e-02 2.47e-02 -1.92e-02 1.02e-02 -2.11e-02 1.65e-02  
## 959 2.90e-03 4.93e-03 -8.73e-04 2.30e-03 2.96e-03 -4.04e-03 -4.50e-04  
## 960 5.98e-03 1.19e-02 2.74e-02 -1.91e-02 1.14e-02 -9.77e-03 -6.25e-03  
## 961 -3.27e-06 1.89e-04 -5.31e-04 -2.85e-04 1.96e-05 2.88e-05 3.13e-04  
## 962 1.58e-02 -1.74e-02 7.45e-03 -4.40e-03 -6.86e-03 1.54e-02 8.03e-03  
## 963 -7.10e-03 -1.59e-02 -3.60e-02 -1.07e-02 2.75e-03 -1.31e-02 -1.16e-02  
## 964 -3.01e-02 -2.61e-02 4.32e-03 -8.80e-03 -1.40e-02 2.82e-02 7.88e-03  
## 965 5.68e-03 4.99e-03 1.74e-03 7.41e-03 -1.08e-02 -6.23e-03 -1.09e-03  
## 966 9.16e-04 6.51e-03 2.93e-04 -8.47e-03 -3.45e-03 -3.21e-03 -2.06e-03  
## 967 -1.73e-03 6.78e-03 6.39e-03 -3.18e-03 -1.22e-03 -4.03e-03 5.50e-03  
## 968 6.42e-03 1.04e-02 7.07e-03 -3.95e-03 -2.81e-03 -7.00e-03 -9.82e-03  
## 969 7.21e-03 1.01e-02 -1.07e-02 -1.23e-02 1.15e-02 -7.00e-04 -2.54e-03  
## 970 1.44e-03 -2.30e-03 2.25e-04 -2.70e-03 -1.32e-03 -5.76e-04 -2.09e-04  
## 971 2.19e-02 -2.02e-02 -4.02e-02 2.81e-02 -1.65e-02 -2.54e-02 -3.31e-02  
## 972 6.63e-05 -2.38e-04 4.40e-07 -3.59e-05 -2.44e-04 -3.35e-05 3.46e-05  
## 973 1.99e-02 -2.94e-02 1.58e-02 -4.35e-02 -7.52e-03 2.33e-02 -4.15e-03  
## 974 1.89e-02 -1.28e-02 9.07e-03 -3.77e-03 -3.27e-03 2.99e-03 -1.47e-02  
## 975 -2.86e-02 -1.80e-02 -1.34e-02 8.82e-03 3.51e-03 -2.66e-04 -4.34e-03  
## 976 7.35e-03 -2.08e-02 -3.72e-02 1.72e-02 -1.34e-02 1.17e-02 5.99e-03  
## 977 1.23e-03 -1.85e-03 2.23e-04 -1.01e-03 -1.98e-03 -1.78e-04 3.39e-05  
## 978 1.13e-02 -5.10e-03 -1.69e-03 2.92e-03 2.13e-03 -2.09e-03 -1.63e-03  
## 979 3.70e-04 -7.85e-04 -1.65e-04 4.24e-04 6.37e-04 -2.68e-04 -3.03e-04  
## 980 -2.98e-03 -4.30e-03 -1.20e-03 3.40e-03 1.88e-03 2.36e-03 -4.18e-04  
## 981 5.27e-03 -9.07e-03 7.89e-03 -3.36e-03 -1.38e-03 -1.42e-03 5.19e-03  
## 982 -1.17e-03 2.92e-03 1.81e-04 -1.15e-04 2.68e-03 -6.49e-03 3.21e-03  
## 983 4.34e-03 1.54e-02 -2.72e-02 2.06e-02 -9.88e-03 3.42e-03 4.85e-03  
## 984 -5.89e-03 -9.45e-03 -3.08e-03 4.12e-03 3.11e-03 -6.50e-03 -2.84e-03  
## 985 7.96e-03 5.39e-03 -8.03e-04 1.55e-03 2.73e-03 -1.05e-02 -1.58e-03  
## 986 2.71e-03 2.63e-03 6.89e-04 4.86e-03 -5.93e-03 2.61e-03 -4.67e-04  
## 987 4.13e-04 5.50e-04 4.62e-05 -3.19e-04 -5.11e-04 8.47e-05 7.37e-05  
## 988 -4.86e-03 -2.27e-03 -1.56e-03 -2.73e-03 3.24e-03 -1.51e-03 4.70e-03  
## 989 8.25e-05 6.29e-04 1.50e-04 -7.05e-04 -3.80e-04 -8.92e-04 7.68e-04  
## 990 1.34e-03 -2.21e-03 3.10e-04 -1.40e-03 -1.82e-03 -4.04e-03 -2.89e-03  
## 991 2.44e-03 -3.54e-03 6.50e-04 -2.84e-03 -2.86e-03 -9.93e-03 -4.79e-03  
## 992 -5.63e-04 1.83e-03 1.10e-04 8.44e-04 1.39e-03 -3.97e-03 3.19e-04  
## 993 1.07e-02 2.13e-02 1.48e-02 -1.71e-02 -3.70e-03 -1.60e-02 3.26e-03  
## 994 2.91e-02 1.95e-02 1.52e-02 -1.44e-02 -1.94e-03 -1.11e-02 -2.74e-02  
## 995 -7.89e-04 6.22e-03 -1.31e-02 -4.95e-03 2.44e-03 -2.14e-03 5.93e-03  
## 996 1.42e-03 -3.41e-03 1.51e-03 3.93e-03 -5.75e-03 -8.58e-03 -1.77e-03  
## 997 8.28e-03 1.29e-02 -2.38e-03 3.65e-03 5.47e-03 3.32e-03 -9.44e-03  
## 998 -5.32e-03 1.02e-02 8.18e-03 -5.22e-03 -1.73e-03 -9.08e-03 -7.52e-03  
## 999 1.97e-02 -1.33e-02 -2.36e-02 1.93e-02 -8.68e-03 -2.14e-03 3.85e-03  
## 1000 -2.19e-02 1.70e-02 -8.34e-03 -1.74e-02 -2.22e-02 -3.56e-03 2.20e-02  
## 1001 -1.65e-04 -2.68e-04 -6.38e-06 1.94e-04 1.84e-04 6.95e-05 7.76e-05  
## 1002 3.40e-03 4.14e-03 -9.73e-04 2.14e-03 2.18e-03 1.60e-03 -8.56e-04  
## 1003 -1.66e-02 -1.43e-02 2.43e-02 -1.30e-02 8.45e-03 -8.13e-03 -5.11e-04  
## 1004 -7.85e-04 1.38e-02 1.07e-02 -8.21e-03 -1.39e-03 -9.37e-03 6.92e-03  
## 1005 2.56e-02 1.52e-02 8.84e-03 -4.72e-03 -4.13e-03 1.89e-03 -1.80e-02  
## 1006 -1.55e-02 -1.76e-02 1.08e-02 6.74e-03 2.29e-02 -3.93e-03 7.53e-03  
## 1007 4.78e-03 6.02e-03 1.46e-02 -9.29e-03 6.47e-03 -5.09e-03 -7.16e-04  
## 1008 -4.34e-04 1.09e-02 -3.34e-03 3.10e-03 4.84e-03 -5.43e-03 -5.36e-03  
## 1009 1.01e-03 2.10e-03 1.42e-05 8.42e-05 1.93e-03 -2.82e-03 -4.15e-03  
## 1010 1.04e-02 2.04e-02 -1.18e-02 8.66e-03 4.08e-03 1.22e-02 1.66e-02  
## 1011 -1.97e-03 -1.08e-02 -3.35e-03 2.82e-03 4.60e-03 -8.16e-03 -5.14e-03  
## 1012 -1.03e-02 -2.09e-02 3.75e-03 1.66e-02 2.74e-02 -5.02e-03 1.35e-02  
## 1013 1.82e-02 -2.21e-02 5.32e-04 1.88e-02 2.40e-02 2.94e-02 5.02e-03  
## 1014 -1.68e-03 -3.00e-03 1.59e-03 3.23e-03 -4.41e-03 -1.14e-03 4.40e-03  
## 1015 1.94e-03 -1.46e-03 -7.38e-04 1.79e-03 5.93e-04 3.51e-03 -2.23e-03  
## 1016 -2.41e-03 1.34e-02 -6.21e-03 3.56e-03 3.83e-03 -1.25e-02 1.75e-02  
## 1017 9.12e-03 -5.91e-03 -1.83e-03 3.06e-03 2.44e-03 2.59e-03 -1.70e-03  
## 1018 -2.54e-04 -3.65e-03 -4.25e-04 -1.62e-03 -4.03e-03 2.88e-03 9.43e-05  
## 1019 -1.94e-03 2.68e-03 -6.13e-04 -4.96e-03 4.46e-03 7.31e-04 -7.38e-05  
## 1020 -2.68e-03 -2.03e-02 4.57e-02 1.45e-02 -5.13e-03 7.02e-03 1.64e-02  
## 1021 -9.50e-03 -1.50e-02 2.46e-02 -1.60e-02 6.98e-03 9.76e-03 1.80e-02  
## 1022 -2.94e-02 1.21e-02 -1.09e-02 1.01e-02 1.81e-03 1.54e-02 1.98e-02  
## 1023 1.54e-03 -2.74e-03 6.64e-03 -2.45e-03 2.50e-03 -4.36e-03 4.60e-03  
## 1024 -2.93e-03 -7.48e-03 -1.45e-02 -6.22e-03 2.93e-03 -4.59e-03 7.26e-03  
## 1025 -6.64e-03 -7.90e-03 -5.02e-03 8.87e-03 2.02e-03 -1.95e-03 2.69e-05  
## 1026 6.68e-03 -1.42e-02 9.73e-03 8.32e-03 1.97e-02 -5.19e-03 5.51e-03  
## 1027 -1.36e-02 1.34e-02 -3.87e-02 9.60e-03 2.35e-02 -8.27e-03 -1.16e-02  
## 1028 -1.11e-02 -1.01e-02 -6.03e-03 -2.59e-03 -1.38e-02 6.05e-03 1.60e-02  
## 1029 1.33e-02 8.33e-03 -1.07e-03 -4.80e-03 -1.01e-02 1.46e-03 -1.84e-02  
## 1030 -4.91e-03 9.68e-03 -2.10e-02 -7.86e-03 3.59e-03 -6.67e-03 -4.79e-03  
## 1031 -4.01e-04 1.15e-03 5.96e-04 1.45e-03 -1.97e-03 -1.65e-03 1.44e-03  
## 1032 -8.54e-04 4.90e-03 1.53e-03 4.96e-03 -7.23e-03 9.17e-04 -1.56e-03  
## 1033 8.19e-04 -9.05e-04 2.60e-04 -1.12e-03 -5.98e-04 -2.30e-03 1.11e-03  
## 1034 -4.46e-05 -6.09e-05 1.87e-05 -9.65e-06 7.23e-05 1.08e-04 -1.06e-05  
## 1035 6.38e-04 -1.50e-02 -8.02e-03 7.39e-03 3.79e-03 -1.87e-03 1.60e-02  
## 1036 -2.19e-02 8.77e-03 -9.95e-03 -1.24e-02 1.12e-02 2.19e-03 1.71e-02  
## 1037 5.65e-03 -2.30e-02 2.19e-02 3.53e-02 -2.88e-02 -1.57e-02 -3.01e-02  
## 1038 1.28e-02 -1.19e-02 -2.62e-02 -1.02e-02 3.79e-03 -5.43e-03 -1.14e-02  
## 1039 5.45e-03 -3.36e-03 1.06e-03 5.61e-03 -6.85e-03 -5.05e-03 -2.94e-04  
## 1040 -2.26e-02 -1.55e-02 -6.02e-03 -1.16e-02 -1.84e-02 -6.54e-04 2.14e-02  
## 1041 2.24e-02 -1.87e-02 1.13e-02 1.04e-02 2.68e-02 -7.71e-05 -2.96e-02  
## 1042 2.38e-04 -4.43e-03 3.79e-04 1.84e-03 2.77e-03 -5.36e-03 -9.44e-04  
## 1043 1.42e-02 -1.45e-02 -1.09e-02 -2.65e-03 -2.17e-02 1.93e-03 -6.06e-03  
## 1044 3.49e-04 -4.75e-04 -8.60e-05 5.17e-04 1.92e-04 3.08e-04 -8.09e-04  
## 1045 -2.19e-03 1.05e-02 -2.41e-03 2.30e-03 4.28e-03 -3.89e-03 -5.20e-03  
## 1046 1.99e-03 3.77e-03 -8.45e-04 2.37e-03 2.20e-03 1.05e-03 -2.56e-04  
## 1047 -3.13e-02 2.65e-02 3.38e-03 -6.37e-03 -1.34e-02 3.62e-02 7.45e-03  
## 1048 -5.47e-03 -1.76e-02 -4.40e-02 -1.28e-02 5.56e-03 6.22e-03 -1.85e-02  
## 1049 -1.47e-03 -1.40e-02 -6.09e-03 -1.04e-02 -1.75e-02 -1.10e-02 2.02e-02  
## 1050 6.85e-03 -8.72e-03 -3.28e-03 7.62e-03 2.34e-03 5.10e-03 -1.65e-02  
## 1051 8.39e-03 1.96e-02 1.00e-02 -7.11e-03 -4.66e-03 1.69e-02 -2.33e-02  
## 1052 1.97e-03 -1.56e-02 1.96e-02 2.17e-02 -1.65e-02 -2.31e-03 3.97e-03  
## 1053 3.09e-04 -1.95e-03 -2.82e-04 1.34e-03 1.09e-03 1.99e-03 1.21e-04  
## 1054 7.96e-03 1.15e-02 8.99e-03 -4.60e-03 -1.92e-03 -2.91e-03 -1.19e-02  
## 1055 2.22e-03 1.38e-02 8.87e-03 -6.59e-03 -4.55e-03 -1.07e-02 -1.44e-02  
## 1056 -5.87e-03 -1.13e-02 5.73e-03 9.39e-03 1.37e-02 7.19e-04 -9.24e-03  
## 1057 4.69e-03 -1.51e-02 1.08e-02 -9.51e-03 -2.87e-03 -1.26e-02 6.53e-03  
## 1058 4.14e-03 2.79e-03 3.19e-05 -1.78e-03 -2.59e-03 -2.17e-03 2.19e-05  
## 1059 -2.57e-03 -4.79e-03 9.04e-03 -2.81e-03 3.49e-03 -8.02e-03 1.11e-03  
## 1060 -4.79e-04 -4.56e-03 -2.19e-03 -7.57e-03 5.99e-03 1.91e-03 -3.39e-04  
## 1061 8.53e-03 7.27e-03 -2.68e-04 2.87e-03 3.58e-03 -2.85e-04 -4.56e-03  
## 1062 -3.18e-03 -4.93e-03 2.96e-04 2.02e-03 2.89e-03 -1.21e-03 -4.46e-04  
## 1063 -7.02e-03 1.47e-02 1.28e-02 -1.21e-02 -3.10e-03 -9.31e-04 6.85e-03  
## 1064 4.81e-04 -6.83e-04 2.21e-04 1.09e-03 -1.26e-03 -6.20e-04 -2.54e-04  
## 1065 6.05e-03 1.33e-02 -9.83e-03 -2.25e-02 1.60e-02 8.11e-03 1.43e-02  
## 1066 -1.05e-02 -1.96e-02 2.45e-02 2.46e-02 -2.08e-02 7.89e-04 7.19e-03  
## 1067 -5.40e-03 5.09e-03 1.54e-02 4.01e-03 3.23e-04 -2.90e-04 -1.25e-03  
## 1068 2.15e-02 1.50e-02 9.34e-03 -5.47e-03 -3.90e-03 7.78e-03 -1.90e-02  
## 1069 -1.13e-02 1.99e-02 8.41e-03 -6.06e-03 -7.61e-03 1.99e-02 1.22e-02  
## 1070 -7.96e-03 8.01e-03 -1.59e-03 5.32e-03 4.26e-03 -1.02e-02 1.35e-02  
## 1071 -1.06e-02 -1.04e-02 8.78e-03 -5.69e-03 -1.39e-03 -2.88e-03 9.86e-03  
## 1072 5.69e-03 6.12e-03 -9.48e-04 1.48e-03 3.41e-03 -8.69e-03 -1.54e-03  
## 1073 5.42e-03 -7.53e-03 -5.16e-03 -7.37e-04 -1.17e-02 2.61e-03 1.52e-04  
## 1074 2.49e-03 -1.56e-03 -3.52e-04 -2.78e-04 -1.67e-03 2.73e-03 -2.23e-03  
## 1075 -5.80e-02 1.91e-02 1.60e-02 -2.24e-02 -2.26e-03 -1.36e-02 1.49e-02  
## 1076 -2.15e-02 -8.50e-03 1.76e-02 1.25e-02 -2.12e-03 -4.60e-03 2.24e-03  
## 1077 -1.42e-02 -1.83e-02 -8.36e-03 -1.71e-02 -2.28e-02 -7.18e-03 2.22e-02  
## 1078 4.06e-04 1.64e-03 -1.91e-04 1.16e-03 1.07e-03 -1.17e-03 2.56e-04  
## 1079 5.27e-04 1.52e-02 2.63e-02 -1.65e-02 8.10e-03 4.39e-03 -9.08e-03  
## 1080 1.01e-02 -1.12e-02 8.52e-03 -3.74e-03 -2.16e-03 -2.35e-03 -1.12e-02  
## 1081 -6.69e-04 8.48e-04 -6.42e-06 2.61e-04 7.92e-04 -1.46e-03 -1.86e-04  
## 1082 1.19e-02 1.40e-02 -2.93e-02 -1.09e-02 5.17e-03 -3.39e-03 -1.32e-02  
## 1083 6.57e-03 1.16e-02 -2.59e-02 -9.97e-03 3.95e-03 -1.85e-03 -1.07e-02  
## 1084 -5.58e-03 1.03e-02 -5.80e-03 7.75e-03 2.12e-03 4.97e-03 -1.54e-04  
## 1085 -6.55e-03 -9.72e-03 -1.59e-02 1.32e-02 -5.76e-03 -2.30e-03 8.06e-03  
## 1086 -1.69e-02 -1.80e-02 -1.59e-02 1.07e-02 2.34e-03 -2.10e-04 -6.05e-03  
## 1087 3.93e-03 -5.95e-03 -4.41e-03 7.82e-03 1.41e-03 -4.15e-03 -1.82e-03  
## 1088 7.66e-03 7.67e-03 -1.92e-03 5.75e-03 2.78e-03 -4.17e-04 -3.93e-03  
## 1089 3.03e-03 -7.07e-03 2.00e-03 8.19e-03 -1.15e-02 -5.67e-03 -2.28e-03  
## 1090 1.35e-03 1.19e-03 2.48e-04 -1.56e-04 1.42e-03 9.41e-04 -6.46e-04  
## 1091 2.86e-03 4.30e-03 -9.80e-04 -1.32e-03 -4.82e-03 -1.20e-03 -8.27e-03  
## 1092 -1.90e-02 2.10e-02 -1.48e-02 6.81e-03 6.04e-03 3.74e-03 2.07e-02  
## 1093 2.84e-02 -8.98e-03 -3.70e-03 -1.94e-02 1.47e-02 2.01e-03 -7.99e-03  
## 1094 1.64e-02 -1.55e-02 7.50e-03 9.21e-03 1.93e-02 1.46e-03 -2.16e-02  
## 1095 3.45e-04 -3.32e-04 1.05e-04 1.35e-05 4.14e-04 -7.05e-05 -1.44e-04  
## 1096 6.39e-03 1.15e-02 -1.42e-03 -1.19e-02 -1.39e-02 -6.42e-03 -2.39e-02  
## 1097 1.52e-02 7.16e-03 4.51e-04 1.18e-02 -1.56e-02 -3.52e-03 -1.40e-02  
## 1098 5.90e-03 -3.71e-03 5.59e-05 -2.75e-03 -3.68e-03 -6.00e-04 -3.82e-04  
## 1099 -1.92e-02 -1.95e-02 4.13e-03 1.99e-02 2.27e-02 1.00e-02 1.24e-02  
## 1100 4.00e-04 8.03e-03 -4.16e-03 -1.35e-03 -1.08e-02 -2.21e-03 -2.94e-04  
## 1101 1.10e-03 2.57e-03 -7.24e-04 2.08e-03 1.45e-03 3.75e-03 -4.14e-05  
## 1102 -9.02e-03 -1.89e-02 -1.98e-02 -3.80e-02 2.35e-02 1.38e-04 2.12e-02  
## 1103 -9.03e-03 -5.26e-03 -3.68e-03 7.05e-03 1.43e-03 -6.36e-03 1.12e-03  
## 1104 -4.16e-04 1.75e-03 9.59e-04 2.02e-03 -2.93e-03 -3.46e-03 2.05e-03  
## 1105 3.88e-04 1.59e-03 4.55e-04 -1.99e-03 -9.16e-04 -3.72e-03 1.83e-03  
## 1106 -2.27e-03 6.65e-03 -5.70e-03 -1.18e-02 9.65e-03 8.09e-03 -1.72e-03  
## 1107 9.74e-04 -6.15e-04 2.36e-04 -7.15e-04 -3.43e-04 -5.39e-04 -1.25e-03  
## 1108 -2.91e-02 1.37e-02 7.92e-03 -6.91e-03 -3.64e-03 -1.05e-02 -1.17e-02  
## 1109 -7.34e-04 2.40e-03 -6.31e-03 -3.89e-03 1.87e-04 -4.82e-04 3.76e-03  
## 1110 5.51e-03 1.83e-02 2.13e-02 2.68e-02 -1.95e-02 -6.29e-03 4.96e-03  
## 1111 1.20e-02 1.77e-02 -2.07e-02 -2.60e-02 1.97e-02 3.21e-03 -1.00e-02  
## 1112 -5.85e-03 3.95e-03 -8.44e-04 3.34e-03 2.01e-03 -2.51e-03 -5.87e-03  
## 1113 5.36e-03 -4.43e-03 -1.68e-03 3.68e-03 2.13e-03 2.80e-03 -7.33e-03  
## 1114 -1.94e-02 8.96e-03 -7.33e-03 1.11e-02 1.88e-03 -6.68e-03 1.22e-03  
## 1115 1.63e-02 -1.04e-02 -7.71e-03 -1.74e-03 -1.53e-02 2.27e-03 -3.39e-03  
## 1116 6.62e-04 -2.14e-03 2.89e-05 -8.72e-05 2.27e-03 -1.74e-03 -4.45e-03  
## 1117 -3.02e-02 1.32e-02 -9.48e-03 7.94e-03 3.09e-03 2.30e-03 2.02e-02  
## 1118 6.27e-03 -3.11e-03 -9.71e-04 3.55e-03 9.99e-04 1.25e-03 -6.54e-03  
## 1119 1.38e-02 1.86e-02 1.03e-02 -1.09e-02 -6.45e-03 1.79e-02 -2.69e-02  
## 1120 4.95e-03 4.43e-03 -3.10e-04 -2.46e-03 -4.26e-03 -3.06e-03 -1.00e-03  
## 1121 3.68e-03 1.01e-02 -4.60e-03 4.36e-03 3.61e-03 -6.39e-03 -5.38e-03  
## 1122 -1.13e-02 -1.52e-02 -2.48e-02 1.71e-02 -8.59e-03 -1.11e-03 1.01e-02  
## 1123 2.52e-02 -1.46e-02 9.75e-03 -6.22e-03 -4.12e-03 -6.55e-03 -1.75e-02  
## 1124 5.44e-03 -3.41e-03 4.88e-04 -2.47e-03 -3.40e-03 3.23e-04 -1.02e-03  
## 1125 7.56e-03 4.98e-03 -1.73e-03 2.97e-03 2.18e-03 3.16e-03 -1.50e-03  
## 1126 -2.14e-02 1.47e-02 2.97e-02 2.07e-02 -7.50e-03 1.01e-02 -3.59e-03  
## 1127 8.62e-04 1.41e-03 2.19e-04 -9.07e-04 -1.11e-03 -1.91e-03 2.46e-04  
## 1128 -3.53e-02 1.81e-02 1.41e-02 3.57e-02 -2.78e-02 1.32e-02 4.24e-02  
## 1129 -2.03e-02 9.39e-03 -2.01e-02 1.58e-02 -6.67e-03 -2.96e-03 1.05e-02  
## 1130 5.82e-03 4.70e-03 1.74e-03 6.91e-03 -1.01e-02 -6.61e-03 -1.38e-03  
## 1131 -3.44e-03 -1.02e-02 -4.10e-03 -6.34e-03 -1.23e-02 6.57e-03 1.55e-02  
## 1132 8.09e-04 -1.32e-03 2.93e-03 -8.38e-04 1.04e-03 -2.93e-03 1.45e-04  
## 1133 1.80e-04 3.10e-03 -2.61e-04 4.69e-04 2.56e-03 -6.17e-03 -1.49e-03  
## 1134 2.47e-03 -3.13e-03 -2.16e-04 3.70e-04 2.83e-03 -1.06e-02 -1.75e-03  
## 1135 2.09e-02 1.25e-02 -2.79e-03 -8.87e-03 -1.33e-02 -8.49e-03 -2.55e-02  
## 1136 1.14e-03 5.14e-03 1.36e-02 -8.91e-03 6.14e-03 -7.00e-03 -5.91e-04  
## 1137 1.30e-02 -5.57e-03 2.97e-03 1.09e-02 -1.16e-02 -4.18e-03 -1.34e-02  
## 1138 1.07e-02 6.26e-03 1.48e-03 9.35e-03 -1.36e-02 -6.35e-03 -2.11e-03  
## 1139 -1.66e-02 1.97e-02 4.50e-02 -9.66e-03 -3.72e-02 -1.03e-02 -8.04e-03  
## 1140 3.42e-06 1.01e-02 -7.85e-03 -1.87e-02 1.42e-02 -5.09e-03 -1.86e-02  
## 1141 1.31e-02 -1.54e-02 1.01e-02 -4.40e-03 -4.18e-03 2.36e-02 -2.13e-02  
## 1142 -3.61e-03 -1.11e-02 -1.13e-02 -1.89e-02 1.44e-02 3.22e-03 1.71e-02  
## 1143 -8.22e-03 4.41e-03 -8.16e-04 2.66e-03 2.46e-03 9.71e-04 8.74e-03  
## 1144 8.13e-03 -1.66e-02 -8.60e-03 6.32e-03 5.36e-03 -9.70e-03 -3.62e-02  
## 1145 -2.10e-03 7.02e-03 6.54e-03 -3.28e-03 -1.28e-03 -3.78e-03 5.93e-03  
## 1146 -4.28e-03 -1.15e-02 6.85e-03 8.73e-03 1.57e-02 -1.13e-02 -1.07e-02  
## 1147 -3.18e-03 -1.09e-02 -8.46e-03 8.55e-03 1.86e-03 1.38e-02 1.55e-02  
## 1148 8.17e-03 -5.74e-03 -7.31e-04 1.52e-03 2.92e-03 -9.23e-03 -1.83e-03  
## 1149 -1.04e-02 1.13e-02 -3.91e-03 4.28e-03 5.43e-03 -9.23e-04 -6.05e-03  
## 1150 9.24e-04 -3.49e-03 -1.92e-03 -4.51e-03 4.86e-03 3.02e-03 -5.49e-04  
## 1151 1.44e-03 -1.22e-03 -6.35e-05 -3.88e-04 -1.16e-03 -2.41e-04 -1.63e-03  
## 1152 1.20e-03 -2.46e-03 1.29e-03 2.78e-03 -3.94e-03 -2.31e-04 3.38e-03  
## 1153 8.73e-04 1.30e-03 1.02e-04 -1.18e-03 -8.48e-04 -2.18e-03 -3.92e-04  
## 1154 -6.91e-03 -1.02e-02 1.70e-02 -7.83e-03 6.19e-03 -5.00e-03 5.09e-04  
## 1155 5.41e-03 -7.69e-03 -9.92e-03 -9.40e-03 8.75e-03 4.25e-03 -1.18e-03  
## 1156 5.55e-03 9.39e-03 -1.86e-02 1.67e-02 -7.41e-03 1.48e-03 -9.06e-03  
## 1157 8.00e-03 -1.69e-02 3.44e-02 -2.53e-02 1.28e-02 6.12e-03 1.71e-02  
## 1158 1.42e-02 -1.74e-02 2.26e-03 -2.53e-02 4.13e-02 2.69e-02 -2.74e-02  
## 1159 -1.42e-03 1.91e-03 5.68e-04 -2.41e-03 -4.44e-04 -1.84e-03 -1.42e-04  
## 1160 -7.43e-03 1.14e-02 1.10e-02 -7.27e-03 -2.66e-03 -5.46e-04 8.12e-03  
## 1161 -1.80e-03 1.69e-03 -4.17e-03 1.27e-03 -1.55e-03 9.03e-04 2.57e-03  
## 1162 7.32e-04 2.09e-03 -2.51e-04 1.27e-03 1.28e-03 -8.65e-04 5.08e-05  
## 1163 9.23e-03 -1.18e-02 -5.14e-03 4.86e-03 4.46e-03 -8.44e-03 -2.59e-02  
## 1164 -1.27e-02 9.64e-03 -5.04e-03 6.85e-03 3.68e-03 -6.04e-03 -1.62e-02  
## 1165 2.58e-03 3.77e-03 9.14e-04 -4.05e-03 -3.20e-03 -9.36e-03 -8.44e-05  
## 1166 -5.73e-03 5.66e-03 1.33e-02 9.55e-03 -1.42e-03 1.34e-02 9.49e-03  
## 1167 -1.30e-04 -3.40e-04 1.08e-04 -6.05e-05 4.19e-04 4.47e-04 -6.36e-05  
## 1168 2.57e-02 -2.27e-02 2.51e-02 2.88e-02 -2.94e-02 -1.00e-03 -3.69e-02  
## 1169 1.25e-02 -1.82e-02 3.90e-02 -2.43e-03 -3.56e-02 4.98e-03 -1.05e-02  
## 1170 -4.15e-02 -2.46e-02 5.78e-03 -6.18e-03 -1.19e-02 4.09e-02 9.75e-03  
## 1171 -4.42e-03 -1.11e-02 -4.88e-03 5.47e-03 4.98e-03 -9.06e-03 -2.11e-02  
## 1172 -1.87e-03 -1.56e-02 -1.30e-02 9.57e-03 3.57e-03 4.79e-04 -6.59e-03  
## 1173 -2.72e-02 9.80e-03 8.36e-03 -5.72e-03 -2.18e-03 -1.20e-02 1.22e-02  
## 1174 -1.39e-03 -4.22e-03 -1.06e-03 4.43e-03 2.05e-03 3.29e-05 -6.92e-03  
## 1175 -9.71e-03 -1.42e-02 8.91e-03 -7.64e-03 -2.45e-03 -1.61e-02 -1.14e-02  
## 1176 2.67e-03 1.33e-02 2.46e-02 -1.60e-02 8.91e-03 7.24e-03 -5.76e-03  
## 1177 -4.05e-03 2.45e-03 -2.60e-04 1.96e-03 1.32e-03 -1.17e-03 4.77e-04  
## 1178 -1.05e-02 -1.87e-02 -4.68e-02 -1.81e-02 4.90e-03 -1.03e-04 1.43e-02  
## 1179 4.11e-03 6.80e-03 -5.21e-03 8.04e-03 1.32e-03 1.46e-02 9.44e-03  
## 1180 -6.41e-03 -8.90e-03 -7.16e-03 -1.17e-02 1.07e-02 2.21e-03 1.33e-02  
## 1181 9.87e-03 1.46e-02 -5.92e-03 -1.01e-02 -1.77e-02 1.25e-02 1.36e-02  
## 1182 -8.46e-03 1.52e-02 8.76e-03 -5.47e-03 -3.77e-03 1.04e-02 3.41e-02  
## 1183 4.16e-04 -9.85e-04 -5.90e-04 -1.32e-03 1.42e-03 6.47e-04 -1.42e-03  
## 1184 -1.63e-02 -7.04e-03 1.36e-02 1.18e-02 -2.67e-03 -9.72e-03 3.10e-03  
## 1185 -1.22e-03 -1.20e-02 -6.37e-03 1.01e-02 2.49e-03 4.03e-03 1.41e-02  
## 1186 -1.18e-02 1.87e-02 -1.29e-02 7.79e-03 3.86e-03 6.82e-03 1.77e-02  
## 1187 1.41e-03 1.35e-02 -9.86e-03 1.22e-02 3.82e-03 4.62e-04 -4.41e-03  
## 1188 8.11e-04 7.40e-04 8.06e-05 -3.08e-04 -6.31e-04 -6.29e-04 -1.18e-03  
## 1189 6.07e-05 -1.05e-02 8.89e-03 -5.29e-03 -2.08e-03 -4.91e-03 7.67e-03  
## 1190 -1.90e-03 -2.46e-03 -1.35e-04 2.19e-03 1.11e-03 9.14e-04 -1.38e-04  
## 1191 -3.67e-03 -9.25e-03 -3.34e-03 3.93e-03 3.49e-03 -9.90e-04 -3.06e-03  
## 1192 1.01e-02 -1.27e-02 2.70e-02 -2.00e-02 1.01e-02 -8.94e-04 -8.32e-03  
## 1193 -3.52e-04 -2.53e-03 1.04e-03 2.82e-03 -3.95e-03 2.48e-04 3.46e-03  
## 1194 1.19e-02 6.01e-03 -3.15e-03 -1.14e-02 8.79e-03 -5.60e-03 -1.81e-03  
## 1195 3.53e-04 -9.29e-04 -1.60e-04 8.45e-04 6.00e-04 1.32e-04 2.46e-04  
## 1196 -8.39e-03 -1.39e-02 -1.33e-02 -2.62e-02 1.92e-02 9.45e-04 -3.74e-03  
## 1197 2.19e-03 1.32e-02 -8.68e-03 1.12e-02 3.11e-03 -3.26e-04 -4.57e-03  
## 1198 2.43e-03 -1.08e-02 -4.79e-03 4.38e-03 3.76e-03 -2.79e-03 -5.42e-03  
## 1199 1.31e-02 -2.29e-02 2.37e-02 2.87e-02 -2.84e-02 6.34e-03 -3.31e-02  
## 1200 1.18e-04 2.24e-04 5.24e-05 -2.39e-04 -1.33e-04 -4.21e-04 2.55e-04  
## 1201 -1.49e-02 8.85e-03 -3.13e-03 -7.85e-03 -1.16e-02 -8.33e-03 1.74e-02  
## 1202 1.24e-02 -1.11e-02 9.09e-03 -3.85e-03 -2.35e-03 3.22e-03 5.33e-03  
## 1203 -2.38e-02 -1.90e-02 -1.33e-02 6.28e-03 4.16e-03 -2.56e-03 2.22e-02  
## 1204 2.13e-02 -1.24e-02 2.29e-03 1.90e-02 -2.76e-02 3.56e-03 -9.29e-03  
## 1205 7.09e-03 1.08e-02 7.65e-03 -3.71e-03 -2.90e-03 -1.92e-03 -1.08e-02  
## 1206 -3.97e-03 6.46e-03 -6.82e-03 -7.75e-03 8.09e-03 -1.50e-03 1.24e-03  
## 1207 2.00e-02 -1.56e-02 8.42e-03 1.28e-02 2.13e-02 -9.22e-04 -2.18e-02  
## 1208 -2.73e-02 1.91e-02 3.88e-03 1.60e-02 2.41e-02 3.10e-03 3.93e-02  
## 1209 -2.74e-02 1.74e-02 -1.28e-02 6.64e-03 4.15e-03 -1.55e-03 2.10e-02  
## 1210 -1.75e-04 3.94e-03 -2.14e-04 2.21e-04 3.39e-03 -8.91e-03 -2.09e-03  
## 1211 6.56e-03 -1.32e-02 1.23e-02 -8.53e-03 -9.55e-04 -1.54e-03 5.48e-03  
## 1212 2.62e-03 1.19e-02 6.32e-03 1.10e-02 1.58e-02 2.09e-04 -1.30e-02  
## 1213 5.88e-04 -2.28e-03 -2.80e-04 6.73e-04 1.92e-03 -2.82e-03 -1.09e-03  
## 1214 2.29e-03 1.91e-03 -1.36e-03 -2.38e-03 2.82e-03 4.12e-03 -2.85e-03  
## 1215 1.48e-03 -1.52e-02 1.37e-02 -1.06e-02 -2.84e-03 -2.85e-03 7.17e-03  
## 1216 5.96e-03 -7.99e-03 -4.07e-03 -3.50e-04 -1.05e-02 9.34e-03 -1.29e-02  
## 1217 6.71e-03 1.07e-02 -4.73e-03 6.39e-03 3.33e-03 -1.45e-03 -2.09e-02  
## 1218 -2.17e-02 1.21e-02 -7.90e-03 4.32e-03 4.07e-03 -1.35e-02 2.01e-02  
## 1219 3.13e-03 -4.21e-03 -1.25e-03 5.29e-04 4.22e-03 -3.81e-03 -1.21e-03  
## 1220 1.03e-02 1.07e-02 9.04e-03 -4.10e-03 -1.96e-03 2.40e-03 4.53e-03  
## 1221 7.89e-03 -1.78e-02 3.16e-03 2.03e-02 2.19e-02 2.04e-02 6.69e-03  
## 1222 -1.39e-02 1.80e-02 1.33e-02 3.50e-02 -2.38e-02 3.45e-03 -2.25e-02  
## 1223 -3.63e-04 2.13e-03 1.19e-03 2.35e-03 -3.52e-03 -4.47e-03 2.38e-03  
## 1224 -4.13e-03 9.60e-03 -5.72e-03 7.86e-03 3.21e-03 -4.38e-03 -1.41e-03  
## 1225 3.02e-03 -1.30e-02 -1.53e-02 -1.71e-02 1.46e-02 8.52e-03 -2.80e-03  
## 1226 4.88e-04 -2.49e-03 9.91e-04 2.93e-03 -3.74e-03 6.59e-04 3.35e-03  
## 1227 -5.96e-03 9.49e-03 -6.45e-03 -2.80e-03 -1.34e-02 7.16e-03 -2.21e-03  
## 1228 6.13e-03 7.49e-03 -2.49e-03 4.72e-03 2.55e-03 2.54e-03 -4.47e-03  
## 1229 2.82e-02 -1.78e-02 9.12e-03 1.01e-02 2.49e-02 -1.56e-02 -2.76e-02  
## 1230 -9.39e-04 2.59e-03 1.62e-04 -3.99e-05 2.38e-03 -5.25e-03 2.76e-03  
## 1231 7.82e-04 4.35e-03 -2.07e-04 9.62e-03 -9.87e-03 5.16e-04 6.72e-03  
## 1232 -3.01e-03 6.88e-03 1.42e-02 -6.63e-03 5.17e-03 -1.09e-03 -1.37e-03  
## 1233 1.38e-02 -1.09e-02 9.29e-03 -4.12e-03 -2.15e-03 1.97e-03 4.12e-03  
## 1234 4.17e-04 3.41e-03 -1.87e-04 1.44e-03 2.31e-03 -3.89e-03 -1.79e-04  
## 1235 1.69e-03 8.38e-03 -1.67e-02 -7.91e-03 3.68e-03 -3.98e-03 5.95e-03  
## 1236 2.00e-02 -1.24e-02 -2.25e-03 -1.18e-02 -1.36e-02 -1.02e-02 -8.85e-03  
## 1237 7.18e-03 5.40e-03 -1.87e-03 3.03e-03 2.46e-03 3.40e-03 -1.51e-03  
## 1238 5.68e-03 1.02e-02 -5.91e-03 7.58e-03 2.74e-03 9.17e-03 -2.15e-02  
## 1239 -6.32e-03 -8.51e-03 -5.69e-03 -1.56e-02 1.19e-02 -2.90e-03 1.36e-02  
## 1240 2.47e-02 -1.92e-02 6.31e-03 -5.28e-03 -8.45e-03 1.97e-02 7.08e-03  
## 1241 -4.57e-02 2.73e-02 5.69e-03 -1.36e-02 -1.29e-02 2.06e-02 6.53e-03  
## 1242 -1.16e-02 1.97e-02 3.62e-02 -2.89e-02 1.33e-02 6.59e-03 1.97e-02  
## 1243 1.62e-02 -1.13e-02 -8.11e-03 -2.60e-03 -1.62e-02 4.28e-03 -4.09e-03  
## 1244 -3.54e-03 -1.10e-02 -5.11e-03 -5.63e-03 -1.34e-02 -9.15e-03 -2.23e-03  
## 1245 5.77e-03 1.43e-02 8.37e-03 -6.97e-03 -3.79e-03 -9.38e-03 6.62e-03  
## 1246 2.79e-02 -1.87e-02 6.09e-03 -4.81e-03 -8.58e-03 1.57e-02 7.24e-03  
## 1247 -4.32e-03 -5.32e-03 -3.92e-03 -6.05e-03 6.94e-03 -6.55e-03 7.25e-04  
## 1248 1.62e-02 1.45e-02 9.43e-03 -4.54e-03 -4.76e-03 -1.04e-03 -1.73e-02  
## 1249 6.64e-03 5.61e-03 -7.87e-04 1.44e-03 3.05e-03 -9.19e-03 -1.78e-03  
## 1250 8.14e-03 1.20e-02 9.34e-03 -5.10e-03 -1.96e-03 -3.94e-03 -1.22e-02  
## 1251 -1.03e-02 -5.40e-03 1.19e-02 -5.04e-03 4.54e-03 -2.84e-03 9.04e-03  
## 1252 1.12e-02 2.02e-02 7.76e-03 -4.27e-03 -6.01e-03 2.75e-02 -2.93e-02  
## 1253 -2.61e-03 2.49e-03 9.68e-05 -3.74e-04 2.80e-03 5.30e-04 3.36e-03  
## 1254 -2.31e-02 -1.03e-02 2.19e-02 1.10e-02 -2.14e-03 7.78e-03 1.65e-02  
## 1255 4.79e-04 6.66e-04 4.41e-05 -5.61e-04 -4.38e-04 -6.95e-04 -2.32e-04  
## 1256 3.06e-02 2.14e-02 -4.58e-02 -2.76e-02 6.06e-03 2.11e-03 -2.97e-02  
## 1257 -1.33e-03 1.20e-02 -5.20e-03 3.04e-03 5.10e-03 -7.07e-03 -6.97e-03  
## 1258 7.20e-03 -1.40e-02 -1.04e-02 -3.28e-02 2.15e-02 1.69e-03 1.74e-02  
## 1259 4.50e-03 -1.11e-02 -7.93e-03 -2.21e-02 1.56e-02 -5.35e-03 -4.41e-03  
## 1260 6.21e-03 2.24e-02 -3.40e-02 1.68e-02 -9.28e-03 -2.80e-03 2.10e-03  
## 1261 -5.01e-03 2.52e-03 -7.85e-04 5.91e-05 -3.43e-03 -2.32e-03 5.65e-03  
## 1262 -1.13e-02 6.57e-03 1.95e-02 1.82e-02 -1.99e-02 8.67e-04 1.14e-02  
## 1263 -6.46e-03 -1.91e-02 4.40e-02 1.47e-02 -5.92e-03 -1.42e-03 -1.19e-02  
## 1264 -6.27e-05 -1.72e-04 9.91e-05 1.94e-04 -2.55e-04 5.74e-05 2.51e-04  
## 1265 -1.39e-02 -2.53e-02 2.68e-02 2.71e-02 -3.04e-02 1.31e-02 4.09e-03  
## 1266 2.63e-07 9.37e-07 -1.98e-07 7.38e-08 -1.05e-06 -1.47e-06 2.15e-07  
## 1267 -1.14e-05 -1.85e-03 5.68e-05 2.09e-04 1.67e-03 -2.99e-03 2.13e-03  
## 1268 2.14e-03 -2.40e-03 -8.79e-04 2.46e-03 1.05e-03 3.36e-03 3.64e-03  
## 1269 6.87e-03 4.67e-03 4.27e-04 -4.92e-03 -4.72e-03 -6.34e-03 -1.07e-03  
## 1270 4.41e-03 1.06e-02 1.82e-02 -1.08e-02 6.73e-03 7.08e-03 -4.61e-03  
## 1271 -4.80e-03 -5.22e-03 -2.49e-03 5.16e-04 -6.62e-03 -1.01e-02 2.39e-03  
## 1272 3.01e-03 3.94e-03 7.27e-04 5.66e-03 -6.80e-03 -2.99e-03 -7.68e-04  
## 1273 -2.32e-05 -4.16e-05 9.42e-05 -3.13e-05 3.66e-05 -3.58e-05 7.40e-05  
## 1274 -8.55e-04 2.08e-03 9.67e-05 8.46e-05 1.89e-03 -5.85e-03 -8.89e-04  
## 1275 3.18e-03 4.64e-03 -1.28e-04 -2.12e-03 -4.94e-03 6.45e-04 7.43e-03  
## 1276 4.94e-03 3.98e-03 -1.79e-03 -6.76e-03 6.09e-03 -3.41e-03 2.19e-08  
## 1277 8.40e-04 -1.39e-03 3.08e-03 -8.82e-04 1.09e-03 -3.05e-03 1.63e-04  
## 1278 3.24e-03 -2.48e-03 -6.57e-04 1.99e-03 1.30e-03 8.74e-04 -1.14e-04  
## 1279 8.30e-03 1.57e-02 -6.85e-03 4.79e-03 5.96e-03 -1.82e-03 -1.46e-02  
## 1280 -3.86e-03 -4.28e-03 -4.05e-03 -3.68e-03 5.18e-03 -5.18e-03 1.39e-03  
## 1281 1.51e-03 -2.24e-03 -2.77e-04 6.35e-04 1.94e-03 -4.86e-03 -1.12e-03  
## 1282 2.18e-03 -9.24e-03 -1.69e-02 1.51e-02 -6.62e-03 -1.42e-03 -6.93e-03  
## 1283 1.16e-02 -1.09e-02 -5.10e-04 4.10e-03 5.67e-03 -5.31e-03 -8.21e-03  
## 1284 3.29e-02 -1.37e-02 -7.69e-03 -6.51e-03 -1.96e-02 9.87e-03 -1.13e-02  
## 1285 2.33e-03 -2.00e-03 3.02e-04 -2.32e-03 -1.46e-03 -5.84e-03 -8.34e-04  
## 1286 -2.45e-03 -3.40e-03 8.72e-04 -4.07e-03 -1.37e-03 -4.05e-03 5.51e-03  
## 1287 -8.32e-05 -6.24e-04 -1.42e-03 4.05e-04 -6.09e-04 1.83e-04 1.01e-03  
## 1288 1.85e-02 -1.81e-02 1.36e-02 3.50e-02 -2.47e-02 6.95e-04 -2.28e-02  
## 1289 -3.21e-04 7.37e-04 1.93e-04 -9.47e-04 -2.96e-04 1.93e-04 1.17e-03  
## 1290 -1.93e-04 2.55e-03 -1.12e-03 3.33e-04 -3.38e-03 -4.65e-03 6.79e-04  
## 1291 2.63e-02 -1.98e-02 6.84e-03 -6.88e-03 -8.52e-03 1.44e-02 7.08e-03  
## 1292 -1.01e-03 1.41e-03 5.47e-05 -1.37e-04 1.59e-03 2.45e-04 1.85e-03  
## 1293 -2.31e-02 -1.74e-02 3.77e-02 1.59e-02 -5.45e-03 2.22e-03 2.06e-02  
## 1294 -2.90e-02 -1.91e-02 -1.41e-02 7.89e-03 4.14e-03 -2.25e-03 -5.54e-03  
## 1295 8.88e-03 -7.42e-03 -1.15e-03 -4.34e-03 -7.53e-03 -2.17e-03 9.64e-03  
## 1296 3.69e-03 2.12e-02 1.36e-02 4.11e-02 -2.81e-02 1.47e-02 7.72e-03  
## 1297 -1.19e-03 2.45e-03 -2.28e-03 -2.36e-03 3.10e-03 -3.94e-03 6.19e-04  
## 1298 -4.17e-04 4.95e-03 -6.92e-04 6.05e-04 4.71e-03 -4.06e-03 -1.45e-03  
## 1299 1.66e-03 -1.91e-03 3.25e-04 -5.95e-04 -1.84e-03 2.74e-04 -1.42e-04  
## 1300 -2.92e-04 4.03e-03 -2.39e-04 2.29e-04 3.47e-03 -9.13e-03 -2.05e-03  
## 1301 3.56e-03 -1.13e-02 -1.83e-02 1.60e-02 -6.46e-03 5.55e-03 5.81e-03  
## 1302 8.60e-03 -1.02e-02 -4.95e-03 7.38e-03 2.44e-03 4.23e-03 -5.70e-03  
## 1303 -1.53e-02 3.15e-02 1.88e-02 -4.57e-02 -4.77e-03 2.08e-02 -2.60e-03  
## 1304 5.08e-03 -3.20e-03 -6.20e-04 2.61e-03 1.42e-03 2.88e-03 -1.43e-03  
## 1305 1.04e-02 -9.85e-03 -2.00e-02 -8.80e-03 3.55e-03 -3.41e-03 5.38e-03  
## 1306 7.58e-03 1.24e-02 1.08e-02 -7.78e-03 -1.97e-03 -4.16e-03 5.51e-03  
## 1307 2.34e-03 1.35e-02 1.68e-02 2.04e-02 -1.46e-02 -6.13e-03 3.84e-03  
## 1308 -4.11e-04 6.89e-03 -3.22e-03 -2.76e-03 -8.66e-03 6.72e-04 1.15e-02  
## 1309 1.65e-03 3.09e-03 -1.02e-03 3.01e-03 9.49e-04 9.44e-05 -4.87e-03  
## 1310 -3.00e-02 -2.09e-02 2.26e-02 2.81e-02 -2.28e-02 -9.81e-03 1.12e-02  
## 1311 -3.82e-03 2.33e-02 9.64e-03 8.98e-03 2.95e-02 1.13e-03 2.44e-03  
## 1312 5.70e-04 -1.64e-03 4.96e-04 -1.37e-03 -1.24e-03 -4.22e-03 4.89e-04  
## 1313 1.04e-02 7.01e-03 -1.83e-03 2.21e-03 3.43e-03 -6.82e-03 -2.61e-03  
## 1314 1.20e-02 -7.89e-03 -2.05e-03 2.58e-03 3.71e-03 -1.03e-02 -1.48e-02  
## 1315 1.49e-02 1.22e-02 -4.80e-03 5.34e-03 3.93e-03 1.51e-03 -8.50e-03  
## 1316 -4.29e-02 -2.40e-02 -6.37e-03 -3.41e-02 5.17e-02 3.65e-02 9.37e-03  
## 1317 -2.45e-03 8.22e-03 -2.58e-03 -3.83e-03 -9.28e-03 1.41e-03 1.13e-02  
## 1318 -4.52e-03 -3.44e-03 1.65e-05 5.51e-04 3.72e-03 -3.04e-03 -3.13e-05  
## 1319 1.58e-02 -5.97e-03 -3.35e-03 -1.26e-02 9.42e-03 -9.60e-03 -1.92e-03  
## 1320 -2.33e-04 3.00e-04 2.01e-04 3.44e-04 -4.96e-04 -6.32e-04 3.81e-04  
## 1321 -4.23e-02 2.77e-02 -2.26e-03 2.65e-02 2.62e-02 3.60e-02 4.48e-03  
## 1322 1.53e-02 1.15e-02 -2.50e-02 -6.80e-03 3.54e-03 4.14e-03 -1.16e-02  
## 1323 3.89e-03 -3.53e-03 -4.63e-04 -1.53e-03 -3.85e-03 1.08e-03 6.57e-03  
## 1324 1.12e-02 -2.15e-02 2.60e-02 2.41e-02 -2.46e-02 1.86e-02 1.37e-03  
## 1325 2.41e-03 -6.45e-03 -2.69e-03 -1.13e-02 8.46e-03 3.08e-03 -2.26e-03  
## 1326 3.97e-04 3.56e-03 1.54e-03 4.11e-03 -6.01e-03 -8.92e-03 -1.73e-03  
## 1327 7.43e-04 5.06e-03 -1.57e-03 -8.98e-03 7.61e-03 -3.09e-03 -3.84e-04  
## 1328 -1.93e-02 -1.54e-02 -8.02e-03 3.38e-03 4.22e-03 -2.42e-02 2.15e-02  
## 1329 5.97e-04 -2.16e-03 6.28e-04 -2.75e-03 -1.30e-03 -4.56e-03 2.59e-03  
## 1330 -5.65e-03 3.75e-03 -1.39e-03 3.33e-03 1.70e-03 6.65e-03 7.49e-03  
## 1331 2.17e-02 1.73e-02 -3.78e-02 -8.92e-03 4.18e-03 3.25e-02 -2.28e-02  
## 1332 1.56e-02 -1.77e-02 7.50e-03 -4.71e-03 -6.97e-03 1.50e-02 8.57e-03  
## 1333 -9.34e-03 -1.34e-02 -1.32e-02 -2.64e-02 1.86e-02 -3.16e-03 1.86e-02  
## 1334 -3.91e-05 1.29e-04 -3.23e-06 9.14e-05 9.15e-05 -9.68e-05 3.50e-05  
## 1335 -2.44e-02 -2.49e-02 3.60e-03 -6.00e-03 -1.39e-02 3.60e-02 7.29e-03  
## 1336 -1.34e-02 -2.24e-02 3.13e-02 2.39e-02 -2.30e-02 5.79e-03 5.63e-03  
## 1337 -5.62e-03 -1.77e-02 -1.40e-03 -2.73e-02 4.06e-02 1.34e-02 1.10e-02  
## 1338 -1.12e-03 -2.95e-03 2.79e-04 1.10e-03 2.25e-03 -6.45e-03 4.81e-04  
## 1339 7.53e-04 7.09e-04 -1.43e-04 -5.25e-06 -8.88e-04 6.13e-04 -1.61e-04  
## 1340 4.88e-03 -4.16e-03 -2.01e-03 -7.32e-03 6.14e-03 2.94e-03 -3.71e-04  
## 1341 -5.24e-03 -1.09e-02 -1.22e-02 -1.16e-02 1.13e-02 -8.86e-03 1.69e-05  
## 1342 -9.76e-03 1.32e-02 8.70e-03 8.77e-03 1.87e-02 -2.35e-03 9.21e-03  
## 1343 -5.65e-04 3.37e-03 -1.60e-04 1.71e-03 2.47e-03 -4.56e-03 3.34e-04  
## 1344 9.72e-03 -1.28e-02 1.25e-02 2.51e-02 -1.69e-02 -6.15e-05 -1.41e-02  
## 1345 4.31e-03 -1.06e-02 -1.10e-02 -1.46e-02 1.27e-02 1.57e-02 1.45e-02  
## 1346 1.82e-03 2.22e-03 1.22e-03 2.38e-03 -3.34e-03 -1.43e-03 2.66e-03  
## 1347 1.19e-02 5.82e-03 -2.81e-04 -5.33e-03 -6.13e-03 -6.17e-03 -1.46e-03  
## 1348 1.17e-03 -2.53e-03 7.96e-05 -1.88e-04 2.77e-03 -1.58e-03 -5.60e-03  
## 1349 -1.84e-04 -2.24e-04 3.54e-05 4.04e-05 2.40e-04 -7.26e-04 -4.99e-05  
## 1350 -1.75e-03 1.45e-02 9.93e-03 -8.48e-03 -2.83e-03 -8.26e-03 8.16e-03  
## 1351 1.27e-02 -6.71e-03 -1.78e-03 2.50e-03 3.00e-03 -6.53e-03 -2.44e-03  
## 1352 -1.64e-02 -1.91e-02 -1.67e-02 9.58e-03 2.94e-03 -4.15e-03 -7.41e-03  
## 1353 1.99e-02 1.17e-02 -1.32e-02 -1.34e-02 1.22e-02 -8.84e-04 -4.94e-03  
## 1354 -3.78e-02 1.50e-02 -1.02e-02 6.34e-03 4.48e-03 4.58e-03 2.15e-02  
## 1355 -1.53e-03 8.69e-03 8.11e-03 -4.86e-03 -1.31e-03 -4.43e-03 6.60e-03  
## 1356 7.35e-04 8.05e-03 -1.63e-02 -7.30e-03 3.42e-03 -3.05e-03 6.38e-03  
## 1357 1.31e-02 -1.45e-02 1.06e-02 -5.49e-03 -4.33e-03 2.74e-04 7.57e-03  
## 1358 2.01e-02 -1.31e-02 9.51e-03 -4.42e-03 -3.22e-03 1.05e-03 -1.56e-02  
## 1359 -5.11e-03 4.27e-03 2.05e-03 4.21e-03 -6.59e-03 2.44e-03 6.07e-03  
## 1360 -3.50e-03 2.66e-03 -6.12e-04 5.20e-04 2.53e-03 8.67e-04 4.92e-05  
## 1361 3.82e-03 -2.38e-02 2.74e-02 3.21e-02 -2.87e-02 -4.31e-02 -3.97e-02  
## 1362 4.82e-03 -1.09e-02 1.18e-02 2.03e-02 -1.36e-02 -1.97e-04 5.34e-03  
## 1363 -1.61e-02 1.07e-02 1.79e-02 -1.07e-02 6.12e-03 8.75e-03 4.57e-04  
## 1364 -3.29e-03 2.02e-03 -7.81e-04 2.23e-03 6.69e-04 1.86e-03 3.68e-03  
## 1365 6.26e-03 -7.86e-03 -4.45e-03 6.00e-03 2.56e-03 7.09e-03 -1.53e-02  
## 1366 1.13e-03 -2.05e-03 -2.09e-04 1.47e-03 1.41e-03 -2.58e-03 3.52e-04  
## 1367 7.26e-03 9.52e-03 -2.11e-02 -6.04e-03 2.61e-03 -2.35e-04 -8.05e-03  
## 1368 -1.13e-02 1.58e-02 -1.21e-02 1.03e-02 4.13e-03 1.78e-02 1.67e-02  
## 1369 5.99e-03 4.94e-03 1.82e-03 7.18e-03 -1.06e-02 -7.25e-03 -1.34e-03  
## 1370 3.33e-04 2.38e-04 3.98e-05 -7.81e-05 -2.14e-04 -1.81e-05 -5.99e-05  
## 1371 1.62e-04 -1.81e-04 1.74e-05 -8.25e-05 -1.60e-04 -8.79e-05 5.34e-05  
## 1372 -4.17e-03 -1.69e-02 5.86e-03 -7.28e-03 -7.93e-03 6.73e-03 1.28e-02  
## 1373 -3.25e-03 -5.98e-03 -3.56e-04 -7.49e-04 5.96e-03 1.08e-03 7.31e-03  
## 1374 6.29e-03 -5.98e-03 -3.02e-03 -6.55e-04 -7.64e-03 4.80e-03 -9.64e-03  
## 1375 6.46e-04 2.15e-03 7.30e-04 -2.81e-03 -1.06e-03 -3.53e-03 -4.43e-03  
## 1376 2.27e-04 4.09e-03 -1.66e-03 -3.69e-04 -5.45e-03 -1.87e-03 6.57e-03  
## 1377 -3.97e-02 1.67e-02 -1.08e-02 5.05e-03 5.38e-03 1.78e-03 2.26e-02  
## 1378 1.37e-03 -1.83e-03 -1.36e-04 -6.52e-04 -1.71e-03 2.22e-03 -2.40e-03  
## 1379 -5.49e-03 1.74e-02 9.29e-03 -6.47e-03 -4.92e-03 2.60e-02 3.64e-02  
## 1380 2.04e-02 1.69e-02 1.66e-02 2.99e-02 -2.01e-02 -2.15e-03 -2.24e-02  
## 1381 -2.73e-04 -4.90e-03 -1.71e-03 5.59e-03 1.86e-03 -2.52e-03 7.34e-03  
## 1382 1.51e-04 -9.08e-04 2.70e-04 -1.23e-03 -3.94e-04 2.76e-04 1.41e-03  
## 1383 -3.97e-04 -2.79e-03 2.04e-04 -7.13e-05 2.55e-03 -6.49e-03 3.13e-03  
## 1384 1.63e-02 -1.20e-02 -2.17e-03 -8.84e-03 -1.36e-02 -4.65e-03 -7.81e-03  
## 1385 -9.77e-03 1.49e-02 -2.51e-02 1.86e-02 -8.29e-03 -4.38e-03 9.85e-03  
## 1386 2.38e-04 5.29e-03 1.37e-04 -5.00e-04 5.27e-03 -3.31e-03 -1.16e-03  
## 1387 6.54e-05 1.51e-02 -1.79e-02 -2.45e-02 1.77e-02 5.40e-03 -6.00e-03  
## 1388 5.99e-04 8.13e-04 6.69e-05 -4.82e-04 -7.53e-04 1.00e-04 1.19e-04  
## 1389 7.40e-03 -6.46e-03 -8.71e-04 1.56e-03 3.25e-03 -8.72e-03 -1.64e-03  
## 1390 4.19e-03 -6.15e-03 -3.14e-03 6.24e-05 -8.35e-03 -2.67e-03 -1.51e-04  
## 1391 -1.26e-02 -2.16e-02 1.82e-02 3.21e-02 -3.03e-02 -4.68e-04 4.62e-02  
## 1392 1.84e-02 2.41e-02 2.12e-02 -3.12e-02 -2.89e-04 2.80e-03 4.24e-04  
## 1393 5.78e-03 -1.89e-02 -1.47e-02 8.64e-03 2.79e-03 4.92e-03 1.47e-02  
## 1394 2.63e-03 -1.23e-02 -8.01e-03 8.45e-03 2.73e-03 1.01e-02 -4.48e-03  
## 1395 2.26e-03 -3.00e-03 5.24e-04 -2.44e-03 -2.50e-03 -3.59e-03 1.47e-04  
## 1396 5.71e-03 4.79e-03 1.72e-03 7.11e-03 -1.04e-02 -6.11e-03 -1.24e-03  
## 1397 -1.23e-02 8.55e-03 -1.95e-02 -7.16e-03 3.03e-03 -6.11e-03 -4.07e-03  
## 1398 1.02e-02 2.01e-02 3.91e-03 -3.04e-02 4.38e-02 2.72e-03 -2.71e-02  
## 1399 6.26e-03 1.52e-02 -7.60e-03 6.45e-03 4.98e-03 4.97e-04 -1.08e-02  
## 1400 3.74e-04 -1.10e-03 -1.58e-04 9.59e-04 7.46e-04 -7.36e-04 -1.58e-03  
## 1401 1.83e-02 1.23e-02 9.05e-03 -4.48e-03 -2.86e-03 2.22e-03 3.92e-03  
## 1402 -1.15e-04 -5.11e-04 -5.30e-05 -1.23e-03 1.05e-03 -1.06e-03 6.37e-04  
## 1403 -7.48e-03 8.09e-03 3.04e-03 1.19e-02 -1.55e-02 -1.35e-02 1.36e-02  
## 1404 5.69e-04 -5.29e-03 -5.69e-03 -4.69e-03 5.79e-03 -3.70e-03 2.93e-04  
## 1405 3.58e-03 -1.38e-02 -1.08e-02 -2.93e-03 -2.11e-02 3.97e-04 -1.78e-03  
## 1406 -1.16e-03 5.78e-03 -1.23e-02 -4.46e-03 2.21e-03 -2.31e-03 5.85e-03  
## 1407 1.18e-02 1.77e-02 3.43e-02 1.93e-02 -7.30e-03 7.68e-03 1.37e-02  
## 1408 -1.24e-03 1.41e-02 1.38e-02 2.57e-02 -1.75e-02 -4.23e-03 -1.37e-02  
## 1409 1.89e-03 -2.05e-03 3.67e-04 -4.17e-05 2.28e-03 1.48e-03 -9.41e-04  
## 1410 -5.58e-03 1.13e-02 -7.92e-03 1.02e-02 1.86e-03 1.00e-02 -3.92e-03  
## 1411 -2.77e-03 4.70e-03 -3.47e-03 6.04e-03 1.02e-03 -1.29e-03 7.58e-03  
## 1412 -1.35e-03 -4.23e-03 -6.66e-04 -6.00e-04 -4.53e-03 1.88e-03 7.59e-03  
## 1413 1.69e-03 -1.14e-02 2.73e-02 9.13e-03 -2.46e-03 -2.07e-03 -6.30e-03  
## 1414 -1.46e-03 6.58e-03 -6.04e-03 3.35e-04 -1.09e-02 -7.88e-04 3.87e-04  
## 1415 6.62e-05 -1.11e-03 -1.08e-05 2.51e-04 1.01e-03 -2.79e-03 -4.00e-04  
## 1416 1.92e-03 -1.15e-02 -1.47e-02 -1.30e-02 1.16e-02 3.48e-03 -2.18e-03  
## 1417 5.71e-03 -9.74e-03 -1.88e-02 -7.58e-03 3.92e-03 5.79e-04 6.66e-03  
## 1418 -1.93e-04 2.12e-04 6.52e-05 -3.94e-05 2.68e-04 3.21e-04 -2.89e-05  
## 1419 -6.95e-03 -1.05e-02 1.21e-02 1.80e-02 -1.20e-02 -5.02e-03 7.64e-03  
## 1420 8.84e-06 -4.87e-05 1.24e-05 8.96e-05 -8.98e-05 9.36e-05 8.35e-06  
## 1421 2.59e-02 1.28e-02 -6.97e-03 -2.47e-02 1.75e-02 7.11e-03 -1.17e-02  
## 1422 -1.48e-04 1.75e-03 3.55e-03 -1.36e-03 1.26e-03 -1.67e-05 -6.88e-05  
## 1423 -2.39e-02 9.91e-03 2.41e-02 1.36e-02 -4.64e-03 1.43e-02 1.50e-02  
## 1424 5.38e-03 -1.66e-02 8.98e-03 -5.35e-03 -5.47e-03 1.85e-02 3.53e-02  
## 1425 -5.21e-05 2.96e-04 1.79e-05 -1.19e-04 -2.54e-04 1.55e-04 -3.80e-04  
## 1426 3.75e-03 -3.98e-03 -9.22e-04 2.63e-03 2.21e-03 -3.26e-03 -6.41e-03  
## 1427 2.57e-03 -5.99e-03 -3.63e-03 -8.90e-03 8.43e-03 -1.66e-03 -1.00e-02  
## 1428 2.89e-03 2.49e-03 -7.69e-04 1.84e-03 1.10e-03 2.52e-03 -2.40e-04  
## 1429 2.00e-02 9.97e-03 -3.66e-03 -1.91e-02 1.48e-02 3.26e-03 -7.26e-03  
## 1430 -3.74e-03 -1.15e-02 8.13e-03 -5.51e-03 -2.16e-03 -1.25e-02 8.36e-03  
## 1431 1.22e-02 -8.13e-03 1.38e-02 -5.86e-03 4.09e-03 -2.86e-03 -3.32e-03  
## 1432 -2.44e-03 8.90e-03 7.71e-03 -4.17e-03 -1.73e-03 -3.70e-03 6.71e-03  
## 1433 -1.24e-02 8.60e-03 -4.89e-03 6.11e-03 2.97e-03 5.95e-03 -1.76e-02  
## 1434 -7.45e-03 -7.00e-03 -2.59e-03 5.25e-03 2.14e-03 5.05e-03 -6.24e-04  
## 1435 7.72e-03 1.21e-02 -2.62e-02 -8.72e-03 4.45e-03 1.48e-03 -1.15e-02  
## 1436 2.73e-03 2.87e-03 5.48e-04 -2.60e-03 -2.46e-03 -6.17e-03 6.16e-05  
## 1437 -2.34e-03 -1.12e-02 1.97e-02 -9.66e-03 7.28e-03 -6.99e-03 -2.67e-03  
## 1438 -2.71e-03 -6.40e-03 -2.14e-03 -7.13e-04 -7.65e-03 1.69e-04 9.79e-03  
## 1439 7.86e-03 1.07e-02 -5.24e-03 -2.38e-02 1.57e-02 -3.84e-03 -6.40e-03  
## 1440 1.88e-03 6.02e-03 6.42e-04 1.21e-02 -1.22e-02 -1.64e-03 8.30e-03  
## 1441 4.43e-03 1.86e-02 -1.36e-02 1.12e-02 3.00e-03 1.75e-02 -1.29e-02  
## 1442 -1.72e-03 1.30e-02 -5.59e-04 2.00e-02 -3.11e-02 -1.47e-02 -2.83e-02  
## 1443 1.24e-02 -1.57e-02 1.49e-03 -2.35e-02 3.62e-02 -1.14e-03 4.88e-03  
## 1444 3.68e-03 3.97e-03 -1.01e-03 2.21e-03 1.98e-03 1.48e-03 -6.17e-04  
## 1445 1.02e-02 -6.41e-03 1.78e-02 4.35e-03 -3.96e-04 -1.08e-02 -2.47e-03  
## 1446 1.20e-02 6.03e-03 -1.16e-04 -5.99e-03 -6.32e-03 -6.89e-03 -1.93e-03  
## 1447 8.28e-03 1.00e-02 -3.96e-03 6.40e-03 4.27e-03 6.83e-03 -2.31e-02  
## 1448 3.57e-04 9.80e-03 2.19e-02 1.32e-02 -3.18e-03 1.63e-02 1.31e-02  
## 1449 -1.27e-03 1.56e-02 -1.35e-02 1.20e-02 2.60e-03 1.26e-02 1.55e-02  
## 1450 7.63e-03 4.36e-03 -5.51e-04 -3.16e-03 -4.90e-03 3.20e-03 -6.87e-04  
## 1451 5.72e-03 -6.85e-03 -5.76e-03 -1.15e-02 1.13e-02 -8.20e-03 -6.68e-04  
## 1452 -1.12e-02 1.01e-02 1.30e-02 1.94e-02 -1.34e-02 -5.17e-03 7.99e-03  
## 1453 -1.65e-03 1.24e-02 -1.21e-02 -1.76e-02 1.50e-02 -3.59e-03 -1.52e-03  
## 1454 -2.87e-02 -2.55e-02 3.87e-03 -6.58e-03 -1.38e-02 4.09e-02 6.90e-03  
## 1455 -8.22e-03 -6.71e-03 -4.43e-03 8.15e-03 1.68e-03 -3.25e-03 1.04e-02  
## 1456 -2.16e-03 -1.30e-02 1.09e-02 -5.58e-03 -2.71e-03 -2.96e-03 8.91e-03  
## 1457 4.44e-03 1.39e-02 -1.00e-02 -2.26e-02 1.77e-02 3.39e-03 -3.99e-03  
## 1458 3.12e-04 1.77e-03 -7.35e-04 -3.12e-03 3.05e-03 1.37e-03 2.00e-04  
## 1459 2.73e-02 1.52e-02 9.17e-03 -5.15e-03 -3.93e-03 6.47e-04 -1.93e-02  
## 1460 5.03e-03 8.61e-03 -8.83e-04 2.92e-03 3.82e-03 5.05e-03 -4.76e-03  
## 1461 -1.02e-02 1.60e-02 -6.26e-03 -1.53e-02 -1.81e-02 -6.32e-03 1.86e-02  
## 1462 4.54e-03 8.52e-03 -8.37e-04 -7.48e-03 -9.41e-03 -3.63e-03 -3.33e-03  
## 1463 6.37e-03 -1.14e-02 -3.55e-03 7.19e-03 4.33e-03 4.54e-04 -2.36e-02  
## 1464 -2.01e-03 5.59e-03 -4.52e-03 6.93e-03 9.10e-04 -1.35e-03 -1.99e-04  
## 1465 1.62e-03 -1.91e-02 1.36e-02 -1.71e-02 -2.26e-03 -1.34e-02 7.62e-03  
## 1466 6.37e-03 -5.59e-03 -8.48e-04 1.83e-03 2.74e-03 -4.33e-03 -1.49e-03  
## 1467 -6.34e-03 1.41e-02 -1.55e-02 -2.25e-02 1.77e-02 4.64e-03 -5.95e-03  
## 1468 9.28e-03 -1.40e-02 8.88e-03 1.06e-02 1.87e-02 4.74e-03 4.45e-03  
## 1469 -7.51e-03 1.28e-02 1.19e-02 -1.01e-02 -7.49e-04 -8.56e-03 9.58e-03  
## 1470 8.84e-03 1.14e-02 -9.44e-03 -2.37e-03 -1.74e-02 -8.58e-04 -3.38e-03  
## 1471 -6.53e-03 -4.52e-03 9.29e-03 -3.28e-03 3.51e-03 -5.09e-03 1.42e-03  
## 1472 5.66e-03 5.84e-03 -8.79e-04 1.49e-03 3.27e-03 -7.90e-03 -1.66e-03  
## 1473 9.07e-05 -2.52e-02 1.56e-02 -2.04e-04 3.31e-02 1.59e-02 -2.35e-03  
## 1474 -1.15e-02 -1.71e-02 1.76e-02 -1.75e-02 -8.25e-04 -1.02e-02 1.08e-02  
## 1475 -5.61e-03 -1.07e-02 -6.44e-03 9.53e-03 2.62e-03 6.72e-03 1.47e-02  
## 1476 -1.06e-02 4.64e-03 -1.68e-03 3.83e-03 2.14e-03 5.59e-03 9.61e-03  
## 1477 -1.28e-03 -1.91e-03 2.48e-04 -9.54e-05 1.99e-03 -1.26e-03 -3.58e-03  
## 1478 3.34e-03 -2.21e-02 4.60e-02 1.94e-02 -9.08e-03 1.80e-02 1.66e-02  
## 1479 -2.89e-04 1.85e-04 1.06e-07 5.76e-05 2.12e-04 -1.19e-04 1.84e-05  
## 1480 -7.31e-03 -5.61e-03 1.02e-02 -3.64e-03 3.84e-03 -5.99e-03 8.91e-03  
## 1481 5.63e-03 -9.69e-03 -1.88e-02 -9.72e-03 4.24e-03 -5.04e-03 6.05e-03  
## 1482 -2.50e-02 2.08e-02 5.33e-03 -5.42e-03 -8.67e-03 1.28e-02 1.30e-02  
## 1483 -2.83e-03 -1.08e-02 -9.92e-03 1.32e-02 8.72e-04 -1.87e-03 -1.32e-03  
## 1484 -6.21e-03 9.67e-03 -2.12e-03 2.56e-03 4.88e-03 -4.83e-03 -3.52e-03  
## 1485 3.58e-03 -3.12e-03 5.71e-04 -2.44e-03 -2.97e-03 2.25e-06 -9.47e-04  
## 1486 2.64e-03 -4.79e-03 9.29e-03 -3.59e-03 3.52e-03 9.62e-04 -8.08e-03  
## 1487 7.44e-03 -6.27e-03 -7.95e-04 1.51e-03 3.17e-03 -8.60e-03 -1.79e-03  
## 1488 2.74e-03 -1.26e-02 -2.48e-02 -1.14e-02 3.84e-03 -2.60e-03 9.29e-03  
## 1489 3.38e-03 1.57e-02 -9.64e-03 7.88e-03 3.73e-03 2.66e-03 1.48e-02  
## 1490 -3.71e-02 2.72e-02 -2.97e-03 2.48e-02 2.42e-02 4.85e-02 1.99e-03  
## 1491 8.19e-03 -6.17e-03 -3.95e-03 -4.98e-04 -9.05e-03 2.14e-03 -1.74e-03  
## 1492 1.21e-02 7.34e-03 -1.82e-03 2.04e-03 3.50e-03 -1.09e-02 -2.72e-03  
## 1493 1.95e-03 -6.05e-03 -3.44e-03 -1.47e-03 -8.32e-03 4.12e-03 9.53e-03  
## 1494 2.82e-02 -1.28e-02 -2.82e-02 -1.11e-02 4.48e-03 -3.03e-04 4.20e-03  
## 1495 -1.69e-03 9.63e-03 1.59e-02 -8.40e-03 4.54e-03 3.76e-03 -3.13e-03  
## 1496 -1.40e-03 -1.19e-02 -8.70e-03 9.27e-03 1.19e-03 1.08e-02 1.57e-02  
## 1497 -1.55e-03 2.27e-03 1.68e-04 9.95e-04 1.84e-03 -4.17e-03 4.01e-04  
## 1498 -3.08e-03 4.81e-03 -3.48e-03 -6.89e-03 7.04e-03 2.75e-03 -7.29e-03  
## 1499 -8.79e-03 -1.50e-02 2.93e-02 2.13e-02 -7.06e-03 -1.12e-02 -3.44e-03  
## 1500 -2.55e-02 -1.71e-02 -1.27e-02 8.87e-03 2.72e-03 6.03e-03 2.25e-02  
## 1501 1.21e-02 -9.50e-03 -1.96e-02 -6.08e-03 3.12e-03 3.96e-03 5.66e-03  
## 1502 -1.21e-03 2.52e-03 -1.92e-03 -2.68e-03 3.68e-03 1.17e-03 4.69e-03  
## 1503 1.09e-03 -1.66e-03 1.88e-04 -1.68e-03 -1.16e-03 -2.55e-03 -5.85e-04  
## 1504 1.71e-02 -1.52e-02 3.59e-02 -4.18e-03 -3.05e-02 -2.89e-04 1.34e-02  
## 1505 1.79e-02 -1.49e-02 1.21e-02 -8.66e-03 -2.49e-03 -7.13e-03 -1.88e-02  
## 1506 -1.75e-03 -5.34e-03 2.36e-03 5.45e-03 -7.89e-03 4.21e-04 7.06e-03  
## 1507 -1.54e-03 2.31e-03 4.63e-05 1.95e-04 2.13e-03 -4.69e-03 -9.00e-04  
## 1508 -1.52e-03 -1.98e-02 -1.22e-02 -1.38e-02 -2.57e-02 7.58e-04 -8.38e-03  
## 1509 2.45e-02 1.72e-02 -3.69e-02 -8.40e-03 3.98e-03 2.84e-02 -2.26e-02  
## 1510 9.84e-04 3.35e-03 -1.07e-03 -7.18e-03 6.10e-03 -7.36e-03 -1.40e-03  
## 1511 3.52e-03 -6.46e-03 -2.42e-03 5.67e-03 1.56e-03 2.73e-03 -1.20e-02  
## 1512 -2.63e-03 -1.90e-02 -2.03e-02 -3.39e-02 2.37e-02 6.32e-03 -1.15e-02  
## 1513 -6.88e-03 9.81e-03 -1.04e-02 -1.16e-02 1.21e-02 -2.58e-03 4.48e-04  
## 1514 8.20e-03 -5.46e-03 -9.28e-04 1.87e-03 2.69e-03 -7.73e-03 -1.28e-03  
## 1515 -2.09e-02 1.78e-02 1.01e-02 -6.06e-03 -7.08e-03 1.97e-02 -2.00e-02  
## 1516 1.54e-02 -7.53e-03 -3.63e-03 -1.63e-02 1.16e-02 -1.20e-02 -2.66e-03  
## 1517 8.12e-04 1.00e-03 -1.42e-04 8.09e-04 5.10e-04 5.43e-04 -1.89e-03  
## 1518 -6.05e-02 2.33e-02 1.20e-02 -1.96e-02 -6.96e-03 -1.55e-02 1.89e-02  
## 1519 -1.39e-02 9.18e-03 -3.15e-03 3.31e-03 4.14e-03 -3.73e-03 -3.76e-03  
## 1520 8.83e-03 -7.35e-03 -6.44e-03 9.39e-03 -4.75e-04 1.60e-03 -2.36e-03  
## 1521 7.91e-03 -5.34e-03 3.56e-04 -4.89e-03 -5.07e-03 -5.65e-03 -7.15e-04  
## 1522 1.79e-03 -1.92e-02 -1.41e-02 8.08e-03 6.18e-03 1.72e-02 1.66e-02  
## 1523 1.09e-03 -3.97e-03 -1.29e-04 1.31e-04 3.54e-03 -1.05e-02 -2.35e-03  
## 1524 -1.05e-03 -1.29e-02 -6.50e-03 6.70e-03 2.78e-03 2.92e-03 -5.23e-03  
## 1525 -1.94e-04 2.36e-03 8.82e-04 3.17e-03 -4.12e-03 -3.63e-03 -8.74e-04  
## 1526 -8.03e-03 -1.61e-02 4.14e-03 1.47e-02 1.98e-02 -7.10e-03 -1.50e-02  
## 1527 1.34e-02 -5.77e-03 -1.54e-03 -2.95e-03 -6.60e-03 4.95e-03 -9.78e-03  
## 1528 5.28e-03 4.29e-03 -8.66e-04 1.91e-03 2.16e-03 -2.92e-03 -1.05e-03  
## 1529 2.24e-02 1.76e-02 1.10e-02 -8.84e-03 -3.41e-03 -8.16e-03 -2.06e-02  
## 1530 4.37e-04 3.89e-03 -2.45e-04 2.91e-04 3.26e-03 -9.21e-03 -1.97e-03  
## 1531 1.31e-02 1.02e-02 2.33e-02 -1.66e-02 9.63e-03 -4.00e-03 -2.11e-02  
## 1532 -5.34e-03 -5.86e-03 -6.50e-04 -1.26e-04 5.69e-03 5.39e-04 -1.15e-03  
## 1533 -2.29e-04 7.80e-04 1.00e-04 -4.41e-05 8.34e-04 -2.07e-05 1.05e-03  
## 1534 -6.53e-04 -1.15e-02 9.17e-03 -5.58e-03 -2.90e-03 -8.31e-03 8.01e-03  
## 1535 2.10e-03 -8.64e-03 1.68e-04 -8.06e-03 -8.83e-03 -6.72e-03 -2.34e-03  
## 1536 -3.01e-03 5.56e-03 -4.30e-03 -5.12e-04 -8.89e-03 7.54e-03 9.57e-03  
## 1537 2.28e-03 -3.51e-03 6.92e-04 -4.45e-03 -2.27e-03 -1.01e-02 -1.58e-03  
## 1538 -5.70e-05 -1.18e-03 -2.07e-04 1.05e-03 7.42e-04 1.03e-03 3.40e-04  
## 1539 2.34e-02 1.52e-02 1.29e-02 3.07e-02 -1.98e-02 4.15e-03 -1.99e-02  
## 1540 -2.11e-03 8.17e-03 -6.74e-03 -1.57e-02 1.19e-02 6.76e-03 -3.35e-03  
## 1541 -6.11e-03 6.51e-03 -5.48e-03 9.21e-03 1.36e-03 -8.49e-03 3.75e-04  
## 1542 6.55e-04 2.28e-03 3.23e-04 -2.53e-03 -1.46e-03 -4.25e-03 -9.07e-04  
## 1543 4.76e-03 2.40e-02 2.82e-02 2.43e-02 -2.56e-02 1.72e-02 -1.15e-03  
## 1544 -9.96e-03 1.15e-02 -3.33e-03 -8.27e-03 -1.49e-02 8.11e-03 1.72e-02  
## 1545 1.59e-02 -1.74e-02 7.46e-03 -4.39e-03 -6.83e-03 1.52e-02 7.90e-03  
## 1546 -1.04e-02 2.19e-02 3.89e-02 -3.59e-02 1.48e-02 -5.86e-03 -1.37e-02  
## 1547 -1.46e-03 3.25e-03 -2.98e-04 1.99e-03 2.39e-03 -3.96e-03 -4.56e-03  
## 1548 3.67e-03 -4.88e-03 3.25e-04 -2.33e-03 -4.84e-03 -5.61e-03 -8.51e-03  
## 1549 1.57e-03 -9.62e-03 -4.07e-03 -3.95e-03 -1.34e-02 5.85e-03 1.38e-02  
## 1550 2.85e-03 3.91e-03 -1.05e-03 2.30e-03 2.01e-03 3.46e-03 -5.61e-04  
## 1551 -2.28e-02 2.36e-02 2.44e-02 3.00e-02 -3.17e-02 1.82e-02 -3.62e-02  
## 1552 -1.31e-03 1.37e-02 6.77e-03 -4.20e-03 -5.57e-03 -1.25e-02 -1.44e-02  
## 1553 1.47e-02 9.98e-03 -3.01e-03 3.97e-03 3.92e-03 1.33e-03 -1.94e-02  
## 1554 -1.27e-02 1.22e-02 1.26e-02 -8.75e-03 -1.13e-03 -5.46e-03 9.56e-03  
## 1555 7.23e-03 -6.37e-03 -8.84e-04 1.62e-03 3.18e-03 -8.07e-03 -1.58e-03  
## 1556 -1.90e-03 3.00e-03 7.93e-04 5.92e-03 -6.26e-03 1.09e-03 5.64e-03  
## 1557 1.24e-02 -1.11e-02 9.09e-03 -3.85e-03 -2.35e-03 3.20e-03 5.30e-03  
## 1558 -3.76e-04 -7.96e-03 2.21e-04 -7.70e-03 -8.16e-03 -6.37e-03 1.24e-02  
## 1559 -4.02e-02 1.76e-02 4.18e-02 1.15e-02 -4.55e-03 -3.32e-03 2.09e-02  
## 1560 2.04e-03 -7.63e-03 -1.48e-02 -6.20e-03 2.82e-03 -3.62e-03 6.15e-03  
## 1561 -7.20e-03 -9.16e-03 -7.83e-03 9.29e-03 3.20e-04 1.08e-02 1.28e-02  
## 1562 -6.12e-05 -8.45e-04 2.09e-04 -1.11e-04 1.02e-03 8.14e-05 -9.97e-05  
## 1563 2.73e-02 -1.40e-02 -1.01e-02 -2.69e-02 1.89e-02 -2.37e-03 -1.34e-02  
## 1564 3.61e-02 2.35e-02 4.60e-02 1.82e-02 -7.47e-03 2.51e-02 -2.35e-02  
## 1565 -6.67e-03 -9.99e-03 -1.19e-03 -7.56e-03 -1.05e-02 -2.48e-03 -1.04e-03  
## 1566 8.31e-05 -1.86e-04 4.70e-05 -1.23e-04 -1.48e-04 -3.28e-04 6.30e-05  
## 1567 5.99e-03 4.98e-03 1.82e-03 7.24e-03 -1.07e-02 -7.28e-03 -1.31e-03  
## 1568 2.17e-02 2.06e-02 -4.99e-02 -1.13e-02 3.14e-03 1.82e-02 8.33e-03  
## 1569 7.38e-04 7.06e-03 -3.32e-03 -1.68e-03 -8.76e-03 1.30e-03 1.04e-02  
## 1570 1.43e-03 -3.01e-03 1.19e-03 4.46e-03 -5.47e-03 -2.36e-03 5.50e-05  
## 1571 1.79e-02 -2.33e-02 2.29e-02 -3.41e-02 -9.00e-04 -2.12e-02 -3.63e-02  
## 1572 9.76e-05 -2.56e-04 5.73e-04 -2.26e-04 2.02e-04 3.31e-04 -1.35e-05  
## 1573 -1.02e-02 1.85e-02 3.08e-03 1.22e-02 2.24e-02 3.01e-03 -2.14e-02  
## 1574 -1.21e-02 2.04e-02 4.39e-03 -6.11e-03 -7.77e-03 -3.49e-03 1.25e-02  
## 1575 1.07e-02 -1.14e-02 -2.10e-02 1.86e-02 -7.67e-03 -3.43e-04 -1.16e-02  
## 1576 7.80e-03 -1.06e-02 2.41e-02 -1.53e-02 9.69e-03 -1.11e-02 -2.25e-02  
## 1577 -4.69e-03 9.34e-03 -4.80e-03 4.18e-03 3.29e-03 2.68e-03 1.44e-02  
## 1578 3.88e-05 -2.16e-03 -3.46e-04 -2.18e-04 -2.30e-03 9.99e-04 -2.97e-03  
## 1579 7.34e-03 -1.33e-02 -3.80e-03 -1.13e-02 -1.57e-02 -1.61e-02 -2.58e-02  
## 1580 -3.89e-03 -5.95e-03 1.32e-02 9.22e-03 -1.05e-03 3.12e-03 9.29e-03  
## 1581 3.22e-03 4.28e-03 -1.89e-03 -6.03e-03 6.16e-03 1.13e-04 -7.15e-03  
## 1582 3.73e-04 -1.06e-03 -3.08e-04 1.86e-04 -1.37e-03 -1.76e-03 2.77e-04  
## 1583 -9.68e-05 -4.15e-04 -4.57e-06 1.17e-04 3.57e-04 -5.70e-05 4.65e-04  
## 1584 -4.00e-03 -1.17e-02 2.52e-02 1.61e-02 -4.48e-03 -2.48e-03 -2.06e-03  
## 1585 1.94e-02 -1.46e-02 3.56e-02 1.04e-02 -2.45e-03 -1.73e-03 -1.39e-02  
## 1586 6.37e-04 3.15e-03 -3.00e-04 5.29e-04 2.53e-03 -6.50e-03 -1.42e-03  
## 1587 4.87e-03 4.34e-03 -9.99e-04 2.11e-03 2.12e-03 -1.71e-03 -7.21e-04  
## 1588 1.20e-02 2.15e-02 1.16e-02 7.35e-03 2.77e-02 -9.73e-03 -2.81e-02  
## 1589 6.93e-03 4.59e-03 4.72e-04 -4.90e-03 -4.61e-03 -6.85e-03 -1.18e-03  
## 1590 -1.38e-04 1.85e-03 -3.69e-04 -4.21e-03 3.59e-03 -2.75e-03 1.96e-03  
## 1591 1.10e-02 -1.25e-02 -2.64e-02 -7.26e-03 2.99e-03 1.85e-03 -1.11e-02  
## 1592 -1.88e-02 -1.89e-02 -1.82e-02 -3.99e-02 2.45e-02 -8.25e-03 2.32e-02  
## 1593 3.41e-04 7.16e-03 -5.66e-03 -8.14e-03 9.77e-03 -7.54e-03 -8.87e-04  
## 1594 1.60e-05 3.51e-04 -8.24e-05 -5.89e-04 6.08e-04 -4.77e-04 8.71e-05  
## 1595 -2.64e-03 2.92e-03 9.62e-05 -1.80e-04 3.19e-03 5.53e-04 -2.88e-04  
## 1596 -1.73e-04 -8.14e-03 -1.67e-02 -5.77e-03 2.52e-03 -1.66e-03 7.85e-03  
## 1597 -5.15e-03 1.10e-02 -1.23e-02 -1.50e-02 1.44e-02 -2.66e-03 -2.18e-03  
## 1598 1.23e-02 -1.46e-02 1.28e-02 -1.14e-02 -1.87e-03 -1.17e-02 -1.71e-02  
## 1599 -3.05e-02 1.84e-02 1.06e-02 -1.21e-02 -5.20e-03 6.57e-03 4.34e-02  
## 1600 -4.61e-03 3.57e-03 -2.42e-03 4.83e-04 -5.29e-03 -8.91e-04 1.07e-03  
## 1601 1.88e-04 -1.04e-03 2.63e-04 -1.19e-03 -6.43e-04 -2.53e-03 -3.03e-04  
## 1602 -4.53e-04 7.38e-04 2.09e-03 3.29e-04 -1.36e-03 -7.92e-04 1.37e-03  
## 1603 -1.23e-02 -1.65e-02 -3.01e-02 2.45e-02 -1.10e-02 -7.14e-04 -1.23e-02  
## 1604 3.09e-03 4.98e-03 -8.68e-04 2.32e-03 3.01e-03 -3.64e-03 -5.80e-04  
## 1605 4.45e-03 8.23e-03 -6.99e-03 -1.01e-02 9.92e-03 -3.00e-03 -9.05e-04  
## 1606 2.75e-03 -4.26e-03 -1.11e-03 1.41e-03 3.55e-03 -2.70e-04 -1.56e-03  
## 1607 -5.43e-03 2.90e-03 1.68e-03 2.93e-03 -4.43e-03 2.00e-03 4.67e-03  
## 1608 5.40e-02 -2.47e-02 1.74e-02 -1.07e-03 3.78e-02 -1.85e-03 -1.27e-02  
## 1609 2.16e-03 2.97e-03 -8.72e-04 2.08e-03 1.50e-03 4.77e-03 -4.71e-04  
## 1610 2.39e-04 -6.08e-04 3.51e-04 6.88e-04 -8.68e-04 -3.60e-04 -1.19e-03  
## 1611 2.37e-03 -1.64e-03 -9.65e-04 -2.50e-03 2.63e-03 2.15e-03 1.44e-04  
## 1612 -1.53e-07 -4.48e-04 -2.43e-05 1.61e-04 3.96e-04 -6.34e-04 -1.49e-04  
## 1613 9.05e-04 6.55e-03 -2.38e-03 4.59e-03 2.04e-03 5.10e-03 -1.40e-02  
## 1614 -1.57e-03 1.27e-02 -2.67e-02 -1.26e-02 4.81e-03 -7.70e-03 -1.08e-02  
## 1615 -1.79e-03 -3.12e-03 9.30e-04 -4.09e-03 -1.21e-03 -4.01e-04 4.44e-03  
## 1616 -2.02e-03 -9.44e-03 -5.33e-04 -9.38e-03 -1.05e-02 -1.83e-02 1.47e-02  
## 1617 1.51e-02 1.61e-02 1.45e-02 -1.33e-02 -1.35e-03 -9.12e-03 3.18e-03  
## 1618 2.16e-04 -4.71e-04 -1.77e-04 -7.37e-04 7.38e-04 4.26e-04 -2.16e-05  
## 1619 -8.82e-03 -8.78e-03 -7.06e-03 1.12e-02 2.47e-03 -9.37e-03 -2.49e-04  
## 1620 8.95e-03 2.15e-02 2.48e-02 2.57e-02 -2.56e-02 7.95e-03 2.37e-03  
## 1621 1.37e-03 1.41e-02 1.45e-02 2.78e-02 -1.77e-02 5.33e-03 -1.66e-02  
## 1622 4.40e-03 6.22e-03 -1.31e-03 3.44e-03 2.39e-03 1.02e-04 -1.16e-02  
## 1623 -1.93e-02 1.69e-02 -1.30e-02 6.93e-03 4.56e-03 6.84e-03 1.97e-02  
## 1624 2.30e-04 -1.78e-02 3.11e-02 -2.40e-02 1.23e-02 4.66e-03 -9.30e-03  
## 1625 1.30e-03 -3.77e-03 1.95e-03 4.00e-03 -5.74e-03 -7.65e-04 -8.92e-04  
## 1626 1.56e-02 1.66e-02 2.73e-02 -1.88e-02 9.66e-03 2.95e-03 -1.35e-02  
## 1627 -1.09e-02 1.34e-02 -2.72e-02 2.09e-02 -9.89e-03 4.81e-03 8.21e-03  
## 1628 2.68e-03 -2.01e-02 1.87e-02 -2.33e-02 -2.77e-03 6.96e-03 5.47e-03  
## 1629 -9.60e-03 -1.17e-02 -3.15e-03 2.95e-03 4.29e-03 -1.09e-02 -4.29e-03  
## 1630 -2.03e-04 4.31e-04 -7.97e-05 -2.03e-05 -4.34e-04 3.14e-04 8.32e-04  
## 1631 1.01e-02 -1.47e-02 -4.85e-03 6.24e-03 6.28e-03 -9.54e-03 -1.09e-02  
## 1632 1.36e-03 -1.48e-03 -5.03e-04 1.49e-03 7.29e-04 1.77e-03 -2.23e-03  
## 1633 -5.19e-03 1.86e-03 -8.82e-04 2.22e-03 7.46e-04 5.40e-03 4.32e-03  
## 1634 -5.39e-03 -3.72e-03 -1.98e-03 3.49e-04 -4.49e-03 -2.49e-03 1.51e-03  
## 1635 1.93e-02 -1.81e-02 -4.77e-02 -1.49e-02 4.47e-03 3.86e-03 8.77e-03  
## 1636 3.00e-03 -3.92e-03 7.56e-04 -3.55e-03 -3.24e-03 -6.84e-03 2.35e-04  
## 1637 -6.56e-03 -3.95e-03 1.91e-03 3.62e-03 -5.54e-03 1.88e-03 6.39e-03  
## 1638 4.71e-03 -3.94e-03 -1.89e-03 -6.87e-03 5.80e-03 3.08e-03 -4.40e-04  
## 1639 5.53e-04 1.14e-02 -1.09e-02 -1.86e-02 1.30e-02 8.99e-03 1.43e-02  
## 1640 -2.83e-02 1.61e-02 1.52e-02 -1.59e-02 -2.38e-03 -1.92e-02 1.27e-02  
## 1641 1.80e-02 1.64e-02 -3.01e-02 -1.93e-02 7.31e-03 -9.48e-03 4.92e-03  
## 1642 -3.59e-04 1.96e-03 5.71e-06 3.98e-04 1.99e-03 -2.37e-03 2.58e-03  
## 1643 3.05e-03 -1.43e-02 7.19e-03 1.12e-02 1.79e-02 3.68e-03 -1.61e-02  
## 1644 -1.02e-02 8.62e-03 2.04e-02 1.71e-03 -1.83e-02 7.07e-03 9.25e-04  
## 1645 2.94e-03 -7.57e-03 -2.48e-03 3.99e-03 2.47e-03 8.01e-03 -2.63e-03  
## 1646 1.07e-02 1.02e-02 8.04e-03 -3.85e-03 -1.99e-03 -4.16e-03 5.18e-03  
## 1647 9.65e-03 -9.68e-03 -2.14e-02 -5.99e-03 2.41e-03 -1.47e-04 -7.99e-03  
## 1648 -4.68e-03 8.36e-03 -5.97e-03 -1.68e-02 1.27e-02 -2.38e-03 1.30e-02  
## 1649 1.15e-03 -1.33e-03 5.13e-04 1.94e-03 -2.42e-03 -2.62e-03 -6.30e-04  
## 1650 2.62e-03 3.58e-03 9.00e-04 -3.85e-03 -3.03e-03 -8.97e-03 -2.12e-04  
## 1651 1.42e-02 2.36e-02 1.24e-03 2.17e-02 2.37e-02 1.94e-02 5.98e-03  
## 1652 -1.67e-03 -6.51e-03 -5.26e-03 7.30e-03 7.65e-04 5.22e-03 -4.28e-04  
## 1653 1.04e-02 6.18e-03 -3.16e-03 4.67e-03 2.26e-03 6.67e-03 -1.13e-02  
## 1654 -1.27e-02 -2.20e-02 1.40e-02 2.23e-03 3.25e-02 -4.40e-03 4.49e-03  
## 1655 2.09e-03 -2.33e-03 1.62e-04 6.41e-05 2.64e-03 -2.43e-04 2.85e-03  
## 1656 4.65e-03 3.52e-03 -2.54e-03 -5.39e-03 5.20e-03 6.91e-03 -5.83e-03  
## 1657 7.08e-03 -1.13e-02 1.68e-02 -7.78e-03 4.33e-03 -5.40e-03 -1.99e-03  
## 1658 2.05e-02 -1.33e-02 9.70e-03 -4.70e-03 -3.27e-03 1.09e-03 -1.58e-02  
## 1659 1.02e-02 -1.70e-02 2.27e-02 2.33e-02 -1.89e-02 -7.61e-03 4.03e-03  
## 1660 1.47e-02 1.92e-02 1.75e-02 -2.03e-02 -3.43e-04 -6.55e-03 2.59e-03  
## 1661 -2.24e-02 -2.00e-02 -1.74e-02 9.51e-03 3.04e-03 -8.46e-05 -6.21e-03  
## 1662 -1.17e-03 -2.95e-03 2.74e-04 1.10e-03 2.25e-03 -6.55e-03 5.21e-04  
## 1663 8.67e-03 6.76e-03 -1.87e-03 3.36e-03 3.53e-03 -1.01e-02 -1.14e-02  
## 1664 2.16e-02 -9.32e-03 -7.50e-03 1.05e-02 9.48e-04 8.16e-03 -5.73e-03  
## 1665 -1.55e-02 -1.91e-02 -1.65e-02 9.33e-03 3.08e-03 -4.81e-03 -8.13e-03  
## 1666 2.64e-03 -1.63e-02 -5.42e-02 -3.09e-02 5.02e-02 1.20e-02 1.24e-02  
## 1667 1.66e-03 2.24e-03 -1.11e-03 2.30e-04 -2.96e-03 -1.72e-03 3.35e-03  
## 1668 7.27e-04 -6.18e-03 -3.32e-04 -3.90e-04 6.31e-03 -3.24e-03 7.09e-03  
## 1669 -6.56e-02 1.90e-02 2.13e-02 2.98e-02 -2.54e-02 -5.54e-03 1.50e-02  
## 1670 6.01e-04 -2.61e-03 3.76e-04 -1.67e-03 -2.04e-03 -3.52e-03 -3.29e-03  
## 1671 1.75e-02 1.73e-02 1.28e-02 -1.19e-02 -2.73e-03 -1.05e-02 -2.03e-02  
## 1672 -2.78e-03 -1.75e-02 -1.38e-02 8.00e-03 4.76e-03 5.49e-04 -8.97e-03  
## 1673 6.04e-04 4.11e-03 8.81e-04 -3.71e-03 -3.06e-03 -1.14e-02 -5.76e-03  
## 1674 2.77e-03 -3.61e-03 7.40e-03 -2.83e-03 2.32e-03 -2.38e-03 -1.16e-04  
## 1675 -1.21e-02 1.17e-02 3.90e-02 2.29e-02 -3.63e-02 -7.59e-03 -5.88e-03  
## 1676 2.19e-03 2.02e-03 -4.49e-04 -5.55e-04 -2.19e-03 4.23e-03 -3.12e-03  
## 1677 6.33e-05 1.87e-03 1.02e-03 2.06e-03 -3.05e-03 -4.19e-03 2.02e-03  
## 1678 -2.92e-04 -4.83e-04 3.46e-04 4.63e-04 -7.08e-04 1.13e-04 7.51e-04  
## 1679 1.46e-05 2.05e-04 5.35e-05 -1.42e-04 -1.54e-04 -3.14e-04 5.80e-05  
## 1680 -8.60e-03 -9.37e-03 -5.54e-04 1.55e-02 -1.89e-02 9.65e-03 -1.37e-02  
## 1681 -2.92e-02 1.55e-02 3.02e-02 -2.39e-02 1.10e-02 2.57e-03 2.19e-02  
## 1682 -3.37e-02 2.43e-02 5.08e-03 1.63e-02 2.91e-02 -6.23e-03 4.66e-02  
## 1683 4.11e-03 5.03e-03 2.35e-04 -4.30e-03 -4.60e-03 -7.75e-03 -7.83e-03  
## 1684 -9.18e-05 -1.41e-04 -5.60e-06 1.07e-04 9.57e-05 7.98e-05 4.38e-05  
## 1685 1.97e-02 1.19e-02 -2.71e-03 -1.00e-02 -1.24e-02 -2.33e-03 1.15e-02  
## 1686 9.22e-04 5.33e-03 -4.13e-03 5.15e-04 -7.83e-03 2.24e-03 9.27e-04  
## 1687 7.61e-04 -2.86e-03 -2.98e-04 6.24e-04 2.44e-03 -5.23e-03 -1.35e-03  
## 1688 -1.54e-02 7.38e-03 -2.97e-03 -4.11e-03 -9.22e-03 1.03e-03 1.59e-02  
## 1689 4.05e-04 -1.82e-03 1.27e-03 1.66e-03 -2.45e-03 3.16e-03 -5.24e-04  
## 1690 8.97e-03 1.69e-02 9.07e-03 -4.66e-03 -5.28e-03 2.43e-02 -2.11e-02  
## 1691 1.61e-03 3.10e-03 -5.88e-04 -8.33e-04 -3.61e-03 1.99e-03 -5.23e-03  
## 1692 5.39e-03 -9.76e-03 8.46e-03 -3.88e-03 -1.47e-03 -1.35e-03 5.91e-03  
## 1693 -3.17e-03 5.78e-03 -1.32e-03 3.86e-04 5.17e-03 -1.57e-03 -1.27e-03  
## 1694 -2.64e-03 1.19e-03 -4.93e-04 1.39e-05 -1.55e-03 -6.71e-04 7.73e-04  
## 1695 1.65e-03 -2.95e-03 -7.94e-04 2.28e-03 1.46e-03 3.75e-03 1.61e-04  
## 1696 5.75e-04 -1.27e-03 1.19e-04 -1.18e-03 -8.71e-04 -8.06e-04 -4.48e-04  
## 1697 -1.07e-02 2.63e-02 1.78e-02 -3.20e-03 3.61e-02 1.07e-02 3.40e-03  
## 1698 -2.90e-02 1.26e-02 1.55e-02 2.27e-02 -1.69e-02 -2.70e-03 1.10e-02  
## 1699 -1.84e-03 1.04e-02 -4.79e-03 3.36e-03 3.74e-03 -6.67e-03 1.48e-02  
## 1700 -7.64e-03 -8.43e-03 3.38e-03 -1.32e-02 1.98e-02 -6.62e-03 8.07e-03  
## 1701 -2.41e-03 -7.95e-03 1.45e-02 -7.71e-03 4.41e-03 4.73e-03 -9.30e-04  
## 1702 -2.10e-03 1.96e-03 -1.20e-03 2.79e-03 5.81e-04 -1.56e-03 2.96e-04  
## 1703 -2.29e-02 -1.90e-02 4.20e-02 1.23e-02 -5.39e-03 7.35e-04 1.76e-02  
## 1704 -3.38e-02 -1.82e-02 5.08e-03 -6.37e-03 -6.19e-03 -8.25e-03 1.83e-02  
## 1705 -2.41e-03 7.96e-03 2.19e-02 8.71e-03 -1.48e-04 -7.60e-03 -1.55e-02  
## 1706 8.35e-03 -1.73e-02 -1.13e-02 7.29e-03 3.27e-03 6.21e-03 -1.28e-02  
## 1707 -8.59e-05 1.46e-04 9.46e-05 1.67e-04 -2.38e-04 -3.26e-04 1.83e-04  
## 1708 -4.22e-03 -8.91e-03 -4.52e-03 6.31e-03 3.45e-03 -2.44e-03 -1.54e-02  
## 1709 9.75e-04 2.67e-03 -1.94e-03 -3.84e-03 3.55e-03 2.89e-03 -4.35e-03  
## 1710 -1.63e-04 -8.58e-04 4.64e-04 -1.20e-03 -2.59e-04 -7.17e-04 1.36e-03  
## 1711 3.37e-04 1.42e-03 -2.39e-04 5.57e-04 1.07e-03 -1.08e-03 -5.38e-04  
## 1712 1.16e-03 1.31e-02 -6.39e-03 5.31e-03 3.76e-03 -6.44e-03 -7.85e-03  
## 1713 1.75e-03 -3.22e-03 1.41e-03 3.86e-03 -5.59e-03 -9.04e-03 -1.55e-03  
## 1714 2.29e-03 -2.65e-03 -2.40e-04 1.45e-03 1.61e-03 -3.46e-03 -2.45e-06  
## 1715 3.21e-02 2.22e-02 -1.31e-02 7.73e-03 5.47e-03 3.00e-02 1.23e-02  
## 1716 6.92e-03 -1.93e-02 4.55e-02 1.43e-02 -5.15e-03 -3.22e-03 1.49e-02  
## 1717 5.38e-03 1.53e-02 1.02e-02 -7.42e-03 -4.43e-03 -9.47e-04 -1.87e-02  
## 1718 7.10e-04 -8.47e-03 -5.93e-03 8.83e-03 2.16e-03 6.45e-03 1.26e-02  
## 1719 1.72e-04 -2.46e-03 8.16e-04 -2.24e-03 -1.72e-03 -6.31e-03 5.71e-04  
## 1720 5.15e-05 -2.17e-02 -2.35e-02 -4.43e-02 2.91e-02 7.39e-03 -1.51e-02  
## 1721 -2.53e-03 -2.24e-02 4.49e-02 2.14e-02 -9.72e-03 9.74e-03 -1.75e-02  
## 1722 -8.55e-03 8.55e-03 -7.17e-03 -1.58e-02 1.24e-02 3.16e-03 -1.60e-02  
## 1723 1.07e-02 9.27e-03 -4.40e-03 6.47e-03 3.01e-03 7.92e-03 -1.94e-02  
## 1724 9.37e-05 -2.39e-04 2.14e-06 2.54e-04 1.31e-04 -4.82e-05 -3.67e-06  
## 1725 -1.63e-03 2.28e-03 -2.19e-03 -2.40e-03 2.90e-03 -6.07e-04 4.65e-04  
## 1726 -4.74e-03 -1.52e-02 8.01e-03 -5.33e-03 -5.57e-03 1.10e-02 3.50e-02  
## 1727 1.54e-02 1.14e-02 -2.48e-02 -6.75e-03 3.53e-03 3.99e-03 -1.17e-02  
## 1728 -1.17e-02 8.03e-03 2.00e-02 2.37e-03 -1.62e-02 -2.91e-03 2.53e-05  
## 1729 5.89e-03 5.65e-03 -7.52e-04 1.36e-03 3.20e-03 -8.38e-03 -1.93e-03  
## 1730 4.85e-03 -1.47e-02 1.01e-02 -6.31e-03 -4.24e-03 9.52e-03 -1.84e-02  
## 1731 -3.76e-04 -2.37e-03 5.55e-04 -5.12e-04 2.80e-03 3.78e-03 -7.23e-04  
## 1732 -3.15e-02 2.65e-02 3.35e-03 -6.37e-03 -1.34e-02 3.64e-02 7.62e-03  
## 1733 -3.96e-03 -1.29e-02 -7.90e-03 -2.54e-02 1.70e-02 -9.43e-03 -4.85e-03  
## 1734 -7.39e-04 -3.37e-03 -3.35e-03 -3.69e-03 3.86e-03 -1.51e-03 7.51e-04  
## 1735 1.89e-02 -1.28e-02 9.07e-03 -3.77e-03 -3.27e-03 2.99e-03 -1.47e-02  
## 1736 6.51e-03 3.05e-03 -5.57e-04 -1.48e-03 -3.39e-03 3.76e-03 -3.68e-04  
## 1737 2.26e-02 1.35e-02 -8.79e-03 8.17e-03 2.78e-03 -2.59e-03 -3.02e-02  
## 1738 -3.69e-03 1.07e-02 8.93e-03 -4.65e-03 -3.33e-03 -5.63e-04 -1.13e-02  
## 1739 2.64e-04 -1.33e-03 7.02e-04 1.57e-03 -2.21e-03 -2.61e-03 1.51e-03  
## 1740 1.22e-02 -8.54e-03 -8.77e-03 -1.29e-02 1.26e-02 -2.69e-03 1.12e-02  
## 1741 -5.16e-04 9.30e-04 -2.41e-05 2.28e-04 8.22e-04 -1.20e-03 -3.30e-04  
## 1742 2.93e-04 -6.72e-04 -4.14e-04 1.07e-03 1.59e-04 -9.01e-04 1.53e-04  
## 1743 -5.39e-03 1.01e-02 7.04e-03 8.76e-03 1.48e-02 5.25e-03 5.92e-03  
## 1744 2.55e-04 1.56e-03 5.56e-04 2.19e-03 -2.70e-03 -1.80e-03 -6.63e-04  
## 1745 9.57e-03 1.13e-02 2.35e-02 1.64e-02 -6.19e-03 4.90e-03 -6.44e-03  
## 1746 -8.10e-03 -6.18e-03 -2.96e-03 6.68e-03 1.50e-03 -2.28e-03 1.05e-02  
## 1747 1.60e-03 -1.37e-02 9.23e-03 -6.84e-03 -3.08e-03 -9.20e-03 7.52e-03  
## 1748 -3.72e-03 3.88e-03 -1.58e-03 -6.79e-03 6.22e-03 -2.41e-03 -6.56e-05  
## 1749 -3.50e-04 -6.29e-04 1.39e-03 -4.48e-04 5.17e-04 -7.53e-04 2.63e-04  
## 1750 7.97e-04 1.41e-03 -6.31e-04 1.70e-03 5.40e-04 1.12e-03 -2.89e-04  
## 1751 7.66e-03 -8.67e-03 -2.35e-03 3.17e-03 3.33e-03 5.62e-04 -4.82e-03  
## 1752 1.66e-03 -5.35e-03 1.38e-02 6.49e-03 -1.05e-03 2.02e-03 -1.98e-03  
## 1753 -4.74e-03 2.75e-03 -6.30e-04 -6.72e-04 -3.09e-03 -1.96e-03 5.59e-03  
## 1754 1.18e-03 3.11e-03 5.43e-04 -3.75e-03 -1.92e-03 -7.61e-03 -1.40e-03  
## 1755 3.50e-03 4.06e-03 -9.08e-04 2.04e-03 2.15e-03 1.02e-03 -9.58e-04  
## 1756 -2.67e-03 3.14e-03 -8.82e-04 -7.40e-04 -4.07e-03 1.47e-03 -5.12e-03  
## 1757 1.20e-04 7.34e-04 -2.44e-04 8.06e-04 4.20e-04 9.04e-04 -9.65e-04  
## 1758 5.37e-03 1.41e-02 -1.01e-02 -5.50e-03 -1.88e-02 -5.45e-04 -4.62e-03  
## 1759 -5.37e-03 -1.34e-02 -5.15e-03 3.63e-03 4.26e-03 -1.21e-02 -5.40e-03  
## 1760 1.10e-03 -2.51e-03 -2.16e-04 1.75e-04 2.81e-03 -1.21e-03 3.47e-03  
## 1761 6.80e-03 -6.79e-03 -7.78e-03 -7.69e-03 8.56e-03 -6.44e-03 -8.95e-04  
## 1762 4.15e-03 -3.66e-03 8.13e-05 -2.41e-03 -3.37e-03 -6.09e-04 1.89e-04  
## 1763 3.73e-04 -6.16e-04 -5.21e-04 -5.99e-04 8.42e-04 -1.02e-03 1.31e-04  
## 1764 -2.01e-03 -2.21e-03 -8.96e-04 2.43e-03 5.07e-04 3.46e-03 -8.44e-05  
## 1765 1.90e-03 6.33e-03 -8.87e-03 -6.40e-03 6.19e-03 1.21e-03 -1.09e-03  
## 1766 -2.23e-02 1.63e-02 -3.31e-02 -2.30e-02 7.98e-03 -7.65e-03 1.00e-02  
## 1767 6.77e-03 -9.96e-03 -2.09e-02 -8.15e-03 3.52e-03 -5.35e-03 -8.41e-03  
## 1768 1.82e-02 -1.28e-02 7.88e-03 -4.42e-03 -4.48e-03 -3.17e-03 -1.36e-02  
## 1769 -1.47e-03 2.20e-03 5.98e-05 1.61e-04 2.03e-03 -4.93e-03 -8.58e-04  
## 1770 5.19e-03 1.00e-02 -4.61e-04 -1.06e-02 -1.07e-02 -8.93e-03 -4.96e-03  
## 1771 -3.58e-03 4.47e-03 1.09e-02 7.55e-03 -1.27e-03 -4.77e-03 7.87e-05  
## 1772 3.13e-04 1.07e-03 2.33e-03 -8.36e-04 1.09e-03 1.97e-03 -1.36e-03  
## 1773 3.74e-03 -9.05e-03 -3.90e-03 5.82e-03 2.07e-03 3.96e-03 -1.69e-02  
## 1774 2.62e-04 -2.73e-03 1.91e-04 -2.23e-05 2.55e-03 -6.37e-03 3.01e-03  
## 1775 1.52e-02 -1.66e-02 -1.20e-02 6.99e-03 7.16e-03 1.25e-02 1.61e-02  
## 1776 -2.95e-02 3.03e-02 -1.16e-02 -5.03e-02 5.91e-02 3.59e-02 -1.82e-03  
## 1777 -3.69e-03 1.01e-02 1.79e-02 -8.57e-03 6.47e-03 -7.27e-03 -2.73e-03  
## 1778 7.95e-03 -1.30e-02 3.07e-02 1.19e-02 -4.55e-03 7.40e-03 -2.71e-02  
## 1779 1.84e-02 -1.27e-02 3.18e-03 -1.88e-02 3.07e-02 1.89e-03 -1.66e-02  
## 1780 -2.97e-02 2.66e-02 3.91e-03 -7.41e-03 -1.32e-02 2.89e-02 6.37e-03  
## 1781 -4.56e-03 -3.11e-03 1.75e-04 -2.81e-04 3.34e-03 2.30e-03 4.48e-03  
## 1782 -8.64e-03 2.29e-02 1.52e-02 -1.89e-02 -2.90e-03 -2.07e-02 -2.75e-02  
## 1783 8.08e-03 -1.22e-02 2.43e-02 -1.29e-02 8.81e-03 -1.33e-02 -4.57e-03  
## 1784 -3.07e-04 5.14e-04 2.48e-04 7.18e-04 -8.88e-04 -6.24e-04 -1.67e-04  
## 1785 -9.63e-03 5.87e-03 -6.14e-03 -9.42e-03 8.55e-03 1.40e-02 1.16e-02  
## 1786 1.38e-02 1.53e-02 1.07e-02 -8.19e-03 -2.78e-03 -7.77e-04 -1.73e-02  
## 1787 1.32e-03 -3.00e-03 -1.80e-03 -4.49e-03 4.47e-03 2.01e-03 -3.30e-04  
## 1788 1.14e-02 5.86e-03 -1.99e-03 -1.84e-03 -6.64e-03 1.51e-03 -1.12e-02  
## 1789 -2.92e-04 -2.89e-03 2.18e-04 -7.97e-05 2.66e-03 -6.34e-03 3.15e-03  
## 1790 -3.73e-03 4.52e-03 -2.06e-04 -4.40e-04 4.50e-03 -5.48e-04 6.01e-03  
## 1791 5.53e-03 1.46e-02 1.54e-02 2.49e-02 -1.66e-02 -6.66e-03 6.82e-03  
## 1792 2.45e-02 -1.19e-02 -8.68e-03 -2.17e-02 1.60e-02 2.95e-03 -2.81e-02  
## 1793 -6.81e-05 -3.65e-04 -8.60e-07 2.57e-04 2.62e-04 -2.47e-04 8.91e-05  
## 1794 1.89e-03 2.86e-03 -8.43e-04 2.28e-03 1.48e-03 -3.20e-05 -4.14e-03  
## 1795 -1.13e-02 1.01e-02 8.90e-03 -6.41e-03 -2.50e-03 -8.13e-03 9.14e-03  
## 1796 -2.45e-03 1.18e-02 -4.73e-03 3.52e-03 4.17e-03 -1.74e-02 -6.06e-03  
## 1797 -3.05e-02 1.46e-02 -1.20e-02 8.70e-03 3.00e-03 1.06e-02 2.07e-02  
## 1798 -5.63e-03 5.52e-03 4.87e-04 -4.91e-03 -4.26e-03 -1.27e-02 9.52e-03  
## 1799 8.62e-04 -3.61e-03 -8.13e-04 2.95e-03 2.06e-03 2.31e-04 5.80e-03  
## 1800 3.59e-03 -2.93e-03 -1.23e-04 -1.67e-03 -2.88e-03 3.46e-03 -3.49e-05  
## 1801 2.75e-03 -4.51e-03 5.07e-04 -5.08e-04 4.73e-03 -1.82e-03 5.75e-03  
## 1802 1.65e-04 7.05e-04 5.58e-05 -3.25e-04 -5.80e-04 -4.85e-04 -8.76e-04  
## 1803 1.69e-02 1.46e-02 8.90e-03 -5.03e-03 -3.49e-03 -2.16e-03 -1.63e-02  
## 1804 7.25e-03 1.52e-02 1.41e-02 -1.02e-02 -2.51e-03 -8.06e-03 6.40e-03  
## 1805 1.26e-02 -1.32e-02 -2.23e-02 1.75e-02 -7.53e-03 -3.54e-03 5.33e-03  
## 1806 -1.36e-04 2.87e-04 1.20e-04 -2.85e-05 3.85e-04 4.31e-05 -7.76e-05  
## 1807 -1.68e-02 -1.95e-02 3.71e-02 1.81e-02 -8.35e-03 8.95e-03 -9.89e-03  
## 1808 -1.98e-03 1.87e-02 -1.69e-02 -3.06e-02 2.35e-02 -7.55e-03 1.99e-02  
## 1809 2.72e-02 1.48e-02 -4.12e-03 4.57e-03 5.09e-03 6.01e-03 -1.46e-02  
## 1810 -3.26e-04 1.53e-03 5.04e-04 -1.39e-03 -1.12e-03 -3.45e-03 3.80e-04  
## 1811 1.08e-03 3.12e-03 1.34e-03 3.59e-03 -5.18e-03 -8.35e-03 -1.63e-03  
## 1812 5.88e-03 5.68e-03 -7.66e-04 1.37e-03 3.21e-03 -8.41e-03 -1.90e-03  
## 1813 -1.10e-02 5.17e-03 1.01e-02 -3.42e-03 4.15e-03 -7.28e-03 1.39e-03  
## 1814 -1.35e-02 6.78e-03 -5.25e-03 -7.03e-04 -1.10e-02 5.52e-03 1.91e-03  
## 1815 1.28e-04 1.60e-04 9.12e-06 2.15e-05 1.49e-04 -9.01e-05 -3.16e-04  
## 1816 -1.04e-02 -1.18e-02 -6.18e-03 -2.30e-02 1.58e-02 -8.56e-03 -2.61e-03  
## 1817 2.26e-02 -1.44e-02 -2.63e-02 1.96e-02 -9.13e-03 -4.85e-03 4.21e-03  
## 1818 8.91e-03 1.64e-02 7.14e-03 -3.06e-02 3.85e-02 -5.81e-03 3.18e-03  
## 1819 1.36e-02 -1.75e-02 1.34e-02 -9.53e-03 -3.99e-03 -3.63e-03 -1.97e-02  
## 1820 8.88e-04 -3.99e-03 -1.52e-04 1.39e-04 3.53e-03 -1.09e-02 -2.21e-03  
## 1821 2.88e-03 -9.80e-03 -6.16e-03 7.04e-03 2.42e-03 5.90e-03 -1.89e-02  
## 1822 -6.74e-03 8.86e-03 -1.25e-02 -1.07e-02 9.39e-03 5.07e-03 1.11e-04  
## 1823 9.05e-03 -8.84e-03 -4.17e-03 -2.78e-03 -1.14e-02 7.59e-03 1.37e-02  
## 1824 8.89e-04 2.61e-03 -8.25e-04 2.29e-03 1.44e-03 2.98e-03 -4.00e-03  
## 1825 -2.42e-02 1.95e-02 -1.67e-02 8.72e-03 3.72e-03 -1.58e-03 -8.23e-03  
## 1826 4.36e-05 -5.76e-05 -2.90e-05 -1.12e-04 1.12e-04 8.50e-06 -2.06e-05  
## 1827 1.63e-02 -8.36e-03 2.09e-02 -1.40e-02 8.15e-03 2.87e-03 -1.99e-02  
## 1828 1.51e-02 -1.82e-02 -3.62e-02 2.13e-02 -1.32e-02 -3.70e-02 -2.89e-02  
## 1829 -2.40e-03 8.82e-03 -1.65e-03 2.44e-03 4.43e-03 -6.92e-03 -4.39e-03  
## 1830 2.58e-02 -1.77e-02 -4.96e-02 -1.05e-02 2.56e-03 2.06e-02 8.73e-03  
## 1831 -1.44e-03 -1.32e-02 -8.22e-03 -2.76e-02 1.80e-02 -1.68e-02 -5.26e-03  
## 1832 1.28e-03 -1.54e-02 1.01e-02 -9.54e-03 -2.66e-03 -1.88e-02 -1.60e-02  
## 1833 -3.96e-02 -2.71e-02 4.12e-03 -7.81e-03 -1.37e-02 5.25e-02 7.62e-03  
## 1834 -1.20e-02 1.23e-02 2.36e-02 1.81e-02 -7.06e-03 7.66e-03 -3.62e-03  
## 1835 5.48e-03 -5.85e-03 -7.34e-04 2.65e-03 4.21e-03 -1.96e-02 -9.76e-03  
## 1836 1.03e-02 -3.12e-02 6.06e-03 -3.67e-03 3.76e-02 4.09e-02 -8.53e-03  
## 1837 1.07e-03 -1.41e-03 -8.44e-04 -1.90e-03 2.17e-03 2.85e-03 -1.99e-03  
## 1838 9.21e-03 6.89e-03 -3.69e-03 6.99e-03 1.71e-03 1.11e-02 -4.02e-03  
## 1839 4.63e-04 3.99e-03 -2.19e-04 2.02e-04 3.35e-03 -1.04e-02 -2.02e-03  
## 1840 -8.93e-04 -1.45e-03 7.57e-04 1.82e-03 -2.28e-03 -1.26e-03 3.70e-04  
## 1841 -4.50e-03 3.55e-03 -2.85e-03 4.65e-03 1.03e-03 8.43e-03 6.96e-03  
## 1842 3.49e-04 2.93e-03 -2.24e-04 1.47e-03 1.97e-03 -1.42e-03 -1.84e-04  
## 1843 -9.43e-05 2.58e-03 -3.21e-04 6.51e-04 2.10e-03 -3.24e-03 -1.10e-03  
## 1844 2.20e-04 -1.55e-03 -2.30e-04 1.10e-03 8.58e-04 1.67e-03 1.08e-04  
## 1845 1.52e-02 -1.89e-02 8.77e-03 -7.49e-03 -6.71e-03 8.46e-03 7.55e-03  
## 1846 1.04e-02 -6.38e-03 1.32e-02 -7.10e-03 4.81e-03 3.97e-03 -1.28e-02  
## 1847 4.61e-03 1.64e-02 1.40e-02 3.39e-02 -2.08e-02 2.71e-02 -2.19e-02  
## 1848 2.20e-02 -1.96e-02 6.63e-03 -5.73e-03 -8.20e-03 2.31e-02 6.32e-03  
## 1849 1.95e-02 2.19e-02 6.19e-03 -5.56e-03 -7.93e-03 1.96e-02 6.88e-03  
## 1850 -8.35e-03 -1.56e-02 -3.55e-02 -9.56e-03 3.96e-03 1.89e-02 -1.32e-02  
## 1851 1.04e-05 3.41e-04 2.62e-05 -1.54e-04 -2.95e-04 2.80e-04 1.11e-04  
## 1852 -1.31e-02 2.47e-02 -6.06e-02 -2.76e-02 5.51e-03 -1.99e-02 8.13e-03  
## 1853 3.88e-03 5.40e-03 1.22e-03 6.37e-03 -8.36e-03 -4.05e-03 -1.80e-03  
## 1854 6.30e-03 1.74e-02 1.61e-02 3.33e-02 -2.37e-02 -2.62e-03 -2.26e-02  
## 1855 2.19e-02 -2.03e-02 2.02e-02 -2.18e-02 -1.17e-03 -2.62e-02 -2.98e-02  
## 1856 2.43e-03 -3.19e-03 -2.31e-04 3.78e-04 2.87e-03 -1.08e-02 -1.72e-03  
## 1857 2.35e-02 2.18e-02 6.11e-03 -5.05e-03 -7.86e-03 1.48e-02 6.07e-03  
## 1858 5.09e-03 -8.61e-03 1.86e-02 1.02e-02 -2.62e-03 1.67e-02 1.05e-02  
## 1859 4.65e-03 6.24e-03 -2.45e-03 -1.26e-02 1.04e-02 -1.29e-02 -1.01e-02  
## 1860 -8.71e-03 -1.06e-02 2.28e-02 -1.41e-02 8.71e-03 -1.64e-03 -2.99e-03  
## 1861 -1.36e-02 1.35e-02 2.74e-02 1.89e-02 -4.86e-03 -3.06e-03 -4.55e-03  
## 1862 2.33e-03 -4.10e-03 -1.73e-03 2.15e-04 -5.72e-03 -3.08e-03 6.32e-04  
## 1863 5.99e-03 1.35e-02 8.62e-03 -5.05e-03 -5.01e-03 -6.04e-03 -1.28e-02  
## 1864 -2.58e-03 1.19e-02 -4.78e-03 3.54e-03 4.18e-03 -1.74e-02 -5.98e-03  
## 1865 1.15e-04 -2.69e-03 1.75e-04 -1.59e-05 2.49e-03 -6.60e-03 3.07e-03  
## 1866 -1.09e-02 1.22e-02 -5.20e-03 3.08e-03 4.81e-03 -1.08e-02 -5.71e-03  
## 1867 8.15e-03 -9.33e-03 -6.78e-03 -1.74e-03 -1.36e-02 7.69e-03 -2.21e-03  
## 1868 -4.79e-04 1.47e-03 -2.64e-04 6.20e-04 1.21e-03 1.89e-04 -5.69e-04  
## 1869 -1.19e-03 3.38e-03 2.66e-04 -3.33e-04 3.31e-03 -1.59e-03 -7.20e-04  
## 1870 1.94e-03 -1.95e-03 -7.76e-04 -3.05e-03 3.54e-03 -1.24e-03 -3.40e-03  
## 1871 7.85e-05 2.12e-04 -1.63e-04 -1.89e-04 2.71e-04 -3.10e-04 3.00e-05  
## 1872 -1.48e-02 1.30e-02 -1.50e-02 -1.74e-02 1.58e-02 -8.44e-03 -4.35e-04  
## 1873 -3.28e-03 -5.01e-03 9.08e-04 -7.13e-03 -2.37e-03 3.49e-04 7.89e-03  
## 1874 1.30e-02 7.34e-03 -1.86e-03 2.15e-03 3.35e-03 -1.20e-02 -2.52e-03  
## 1875 1.89e-02 -1.27e-02 9.06e-03 -3.77e-03 -3.25e-03 2.92e-03 -1.47e-02  
## 1876 5.33e-03 -9.39e-03 8.16e-03 -3.61e-03 -1.42e-03 -1.50e-03 5.52e-03  
## 1877 7.91e-03 1.03e-02 -6.34e-03 6.41e-03 2.92e-03 7.33e-04 1.25e-02  
## 1878 5.09e-03 7.71e-03 -1.72e-03 -4.98e-03 -9.57e-03 5.43e-03 -2.86e-03  
## 1879 -3.19e-02 1.72e-02 -3.86e-02 2.42e-02 -1.42e-02 1.74e-03 9.26e-03  
## 1880 -1.42e-03 3.46e-03 -6.97e-04 2.26e-03 1.90e-03 -1.14e-03 -3.34e-04  
## 1881 1.37e-02 6.09e-03 -2.74e-04 -3.97e-03 -6.39e-03 2.66e-03 -3.09e-03  
## 1882 8.47e-04 -4.59e-03 -5.76e-04 2.45e-04 4.78e-03 -3.27e-03 -1.61e-03  
## 1883 2.45e-02 1.62e-02 1.18e-02 -8.87e-03 -3.06e-03 -1.77e-03 4.90e-03  
## 1884 -1.66e-03 -5.63e-03 -1.65e-03 3.72e-03 2.52e-03 -3.26e-03 -1.18e-03  
## 1885 -1.30e-02 1.18e-02 -8.11e-03 4.86e-03 4.14e-03 -5.85e-03 1.84e-02  
## 1886 -5.75e-02 2.48e-02 1.95e-04 2.52e-02 2.58e-02 4.63e-02 6.39e-03  
## 1887 2.42e-02 2.04e-02 -4.88e-02 -1.02e-02 2.80e-03 1.65e-02 8.29e-03  
## 1888 8.24e-03 1.86e-02 4.03e-02 1.19e-02 -3.93e-03 -1.87e-02 1.74e-02  
## 1889 1.97e-02 1.12e-02 -7.07e-04 1.81e-02 -2.37e-02 2.99e-03 -2.46e-02  
## 1890 -1.95e-03 -1.26e-02 -1.22e-02 -1.77e-02 1.44e-02 1.63e-02 1.71e-02  
## 1891 -2.12e-03 -2.63e-03 -4.77e-04 -6.35e-03 5.43e-03 9.60e-04 3.60e-03  
## 1892 3.60e-03 2.56e-03 -7.67e-04 2.09e-03 9.30e-04 3.12e-03 -5.10e-03  
## 1893 -3.90e-03 -2.26e-02 -4.74e-02 3.23e-02 -1.84e-02 1.26e-03 9.34e-03  
## 1894 1.59e-02 1.20e-02 -2.65e-02 -8.15e-03 3.85e-03 -2.46e-03 -1.16e-02  
## 1895 6.10e-03 1.73e-02 -1.42e-02 1.02e-02 2.44e-03 8.75e-03 1.50e-02  
## 1896 -3.37e-04 2.30e-03 8.25e-04 -2.31e-03 -1.63e-03 -6.73e-03 4.92e-04  
## 1897 1.85e-03 -3.67e-03 -2.11e-04 1.57e-03 2.26e-03 -4.97e-03 -3.83e-05  
## 1898 -5.76e-03 -3.78e-03 2.18e-04 -5.30e-04 4.08e-03 1.53e-03 5.65e-03  
## 1899 -9.20e-03 2.33e-02 -1.79e-02 8.78e-03 5.13e-03 1.48e-02 2.03e-02  
## 1900 2.91e-03 -2.25e-02 2.03e-02 -2.48e-02 -4.19e-04 -2.47e-02 4.95e-03  
## 1901 4.45e-03 -4.68e-03 -1.80e-03 3.90e-03 2.20e-03 5.16e-03 -7.41e-03  
## 1902 -6.91e-03 4.09e-03 -1.51e-03 3.13e-03 1.94e-03 2.79e-03 8.05e-03  
## 1903 3.25e-02 -9.71e-03 -2.18e-03 4.18e-03 5.05e-03 7.10e-03 -1.11e-02  
## 1904 2.46e-03 -2.97e-03 5.42e-04 -3.65e-03 -2.00e-03 -8.40e-03 -1.34e-03  
## 1905 2.00e-03 3.47e-03 7.15e-04 -3.46e-03 -3.02e-03 -6.65e-03 1.78e-04  
## 1906 -7.40e-04 -1.28e-02 -4.62e-03 -1.21e-02 -1.45e-02 -2.01e-02 1.85e-02  
## 1907 1.15e-03 2.78e-03 5.31e-04 -4.80e-04 3.13e-03 3.46e-03 -1.44e-03  
## 1908 1.72e-03 1.30e-03 -9.02e-05 -5.37e-04 -1.28e-03 1.05e-03 1.43e-04  
## 1909 -6.70e-03 -7.91e-03 -6.79e-03 9.95e-03 8.65e-04 6.92e-04 3.47e-04  
## 1910 8.02e-03 -1.29e-02 -3.13e-03 4.29e-03 5.22e-03 -2.14e-03 -2.80e-02  
## 1911 -1.26e-03 7.45e-03 -2.45e-03 4.10e-03 2.35e-03 2.75e-03 -2.11e-03  
## 1912 -2.05e-03 2.07e-02 2.06e-02 -2.15e-02 -4.77e-04 -5.81e-03 5.92e-03  
## 1913 -3.02e-03 3.04e-03 -7.63e-03 2.10e-03 -2.98e-03 1.33e-03 4.96e-03  
## 1914 -1.86e-04 4.18e-03 -4.58e-04 2.26e-03 1.89e-03 3.18e-03 -1.11e-03  
## 1915 1.52e-02 -1.86e-02 6.38e-03 -5.73e-03 -7.95e-03 9.84e-03 9.88e-03  
## 1916 1.11e-02 5.46e-03 -3.06e-03 -9.65e-03 7.74e-03 -2.57e-03 -1.24e-03  
## 1917 -8.01e-04 -9.65e-04 1.59e-04 -8.98e-05 1.16e-03 2.94e-04 1.51e-03  
## 1918 -1.68e-03 9.79e-03 -3.00e-03 -6.63e-03 -1.25e-02 3.03e-03 -2.00e-02  
## 1919 -1.41e-04 -1.23e-03 -2.37e-04 6.01e-04 9.69e-04 6.02e-04 -4.41e-04  
## 1920 -1.08e-02 -1.79e-02 4.06e-02 -4.61e-03 -3.26e-02 -6.05e-03 -5.49e-03  
## 1921 1.44e-04 -1.38e-03 -9.29e-05 -8.58e-05 -1.47e-03 -4.11e-04 -1.74e-03  
## 1922 -4.79e-03 -1.71e-02 1.47e-02 2.97e-03 2.85e-02 -8.33e-03 6.43e-03  
## 1923 -2.28e-02 -2.02e-02 1.30e-02 3.93e-03 3.16e-02 -3.90e-04 5.36e-03  
## 1924 -5.37e-02 2.88e-02 3.16e-03 1.79e-02 3.00e-02 -2.44e-02 4.82e-03  
## 1925 -9.45e-03 2.04e-02 -1.09e-02 -1.95e-02 -2.64e-02 -6.36e-04 2.21e-02  
## 1926 1.21e-02 7.38e-03 -1.84e-03 2.05e-03 3.51e-03 -1.10e-02 -2.65e-03  
## 1927 8.94e-03 -8.15e-03 -8.67e-03 -1.03e-02 9.95e-03 -5.77e-03 -1.27e-03  
## 1928 5.79e-03 5.91e-03 -8.59e-04 1.43e-03 3.32e-03 -8.56e-03 -1.72e-03  
## 1929 2.73e-03 4.49e-03 -8.19e-04 2.28e-03 2.70e-03 -2.54e-03 -5.04e-04  
## 1930 -4.92e-03 1.42e-02 9.80e-03 -5.54e-03 -5.48e-03 -3.56e-03 -1.51e-02  
## 1931 1.52e-03 -1.35e-03 -4.50e-04 1.34e-03 6.52e-04 2.30e-03 7.16e-05  
## 1932 -6.20e-04 6.31e-04 3.02e-04 9.78e-04 -1.02e-03 -3.22e-04 -2.32e-05  
## 1933 5.82e-05 -1.67e-03 5.13e-04 -1.36e-03 -1.18e-03 -3.33e-03 4.05e-04  
## 1934 7.37e-03 -6.59e-03 -9.26e-04 1.60e-03 3.30e-03 -8.79e-03 -1.52e-03  
## 1935 1.16e-02 6.86e-03 1.70e-03 9.75e-03 -1.48e-02 -1.01e-02 -2.20e-03  
## 1936 -5.00e-04 -2.88e-03 8.00e-04 -3.52e-03 -1.20e-03 -3.42e-03 4.43e-03  
## 1937 -9.69e-03 1.20e-02 -4.58e-03 3.77e-03 4.69e-03 -3.93e-03 -6.81e-03  
## 1938 6.71e-04 -1.19e-03 8.62e-05 -1.08e-03 -8.49e-04 -8.65e-04 -3.56e-04  
## 1939 -1.43e-03 1.42e-02 -7.51e-03 4.76e-03 4.49e-03 -1.85e-02 -3.00e-02  
## 1940 4.26e-02 -1.77e-02 4.70e-04 -2.98e-02 4.57e-02 2.11e-02 -3.49e-02  
## 1941 -2.13e-05 4.13e-03 -1.81e-04 1.23e-04 3.58e-03 -9.86e-03 -2.29e-03  
## 1942 -2.93e-03 9.50e-03 -8.07e-03 -9.62e-04 -1.58e-02 2.81e-03 -1.06e-03  
## 1943 -1.40e-03 -2.67e-03 -1.99e-03 3.56e-03 1.93e-04 -7.37e-05 5.46e-04  
## 1944 1.53e-02 1.25e-02 8.44e-03 -4.44e-03 -2.79e-03 -3.74e-03 -1.41e-02  
## 1945 -7.20e-04 6.84e-04 -1.42e-04 6.70e-05 -8.07e-04 -8.62e-04 3.28e-04  
## 1946 1.05e-02 -2.24e-02 3.01e-02 2.53e-02 -2.46e-02 -4.01e-03 -1.51e-03  
## 1947 -2.13e-03 8.63e-03 -5.55e-03 -1.75e-02 1.27e-02 -3.81e-03 -3.48e-03  
## 1948 2.30e-02 -1.51e-02 -8.55e-03 -9.36e-03 -2.30e-02 3.11e-03 -8.31e-03  
## 1949 8.36e-03 -1.42e-02 3.55e-03 -2.01e-02 3.20e-02 -2.20e-04 -1.52e-02  
## 1950 1.26e-02 -1.10e-02 9.05e-03 -3.81e-03 -2.30e-03 3.01e-03 5.02e-03  
## 1951 2.62e-03 -1.40e-02 -1.08e-02 -2.04e-03 -2.08e-02 1.52e-03 -2.20e-03  
## 1952 -1.34e-03 -1.79e-03 -1.31e-03 2.76e-03 4.84e-04 -2.21e-03 6.50e-04  
## 1953 -1.17e-04 -4.81e-03 -3.34e-03 -6.83e-03 6.32e-03 5.45e-03 -7.94e-03  
## 1954 3.37e-03 1.57e-02 -1.42e-02 1.13e-02 1.94e-03 1.66e-03 -7.97e-03  
## 1955 8.76e-04 -9.01e-03 -7.42e-04 -8.99e-03 -9.53e-03 -1.06e-02 1.31e-02  
## 1956 6.66e-03 -9.31e-03 -3.99e-03 -4.35e-03 -1.24e-02 4.91e-03 -2.96e-03  
## 1957 2.26e-03 -4.24e-03 -2.15e-03 4.32e-03 1.86e-03 5.58e-04 -7.67e-03  
## 1958 2.79e-03 1.52e-02 -8.70e-03 1.10e-02 4.68e-03 1.57e-03 1.50e-02  
## 1959 -2.86e-02 1.57e-02 -1.03e-02 6.80e-03 4.09e-03 -4.58e-03 2.13e-02  
## 1960 -1.33e-04 1.44e-04 -6.41e-05 1.71e-04 6.57e-05 3.35e-04 9.91e-06  
## 1961 -6.47e-03 -2.50e-02 9.65e-03 -1.53e-02 -8.72e-03 -1.36e-03 8.70e-03  
## 1962 -4.18e-03 1.02e-02 2.47e-02 9.75e-03 -2.13e-03 9.81e-05 -2.13e-02  
## 1963 -5.19e-02 -3.46e-02 1.39e-02 -4.48e-02 -9.51e-03 -3.38e-02 6.13e-02  
## 1964 -5.80e-03 -1.03e-02 -7.85e-03 1.11e-02 1.59e-03 4.86e-03 1.33e-02  
## 1965 -3.47e-03 -2.85e-03 -1.02e-03 3.28e-03 1.29e-03 2.52e-03 5.01e-03  
## 1966 6.19e-03 1.16e-02 1.15e-02 2.34e-02 -1.53e-02 -3.72e-04 -1.33e-02  
## 1967 4.96e-03 -4.00e-03 -7.48e-04 2.26e-03 2.24e-03 -3.94e-03 -4.42e-04  
## 1968 -1.31e-02 -1.72e-02 -1.04e-02 -9.71e-03 -2.31e-02 6.55e-03 -3.45e-03  
## 1969 -1.36e-03 -3.39e-03 -2.91e-04 -2.05e-04 3.85e-03 -1.64e-03 -6.70e-04  
## 1970 1.29e-02 -1.28e-02 1.40e-02 2.45e-02 -1.57e-02 3.89e-03 4.41e-03  
## 1971 -1.13e-03 1.53e-03 6.54e-05 8.35e-04 1.22e-03 -1.70e-03 3.05e-04  
## 1972 9.26e-05 -6.34e-03 -1.23e-02 -4.29e-03 2.03e-03 -2.08e-03 6.09e-03  
## 1973 -1.01e-02 1.76e-02 3.45e-02 1.93e-02 -6.55e-03 7.25e-03 -9.07e-03  
## 1974 1.11e-03 1.40e-03 8.89e-05 -1.38e-03 -7.24e-04 -1.13e-03 -8.98e-05  
## 1975 -1.25e-04 1.49e-04 -9.88e-06 5.59e-05 1.33e-04 -2.44e-05 -4.76e-05  
## 1976 1.36e-02 2.11e-02 -1.89e-02 1.10e-02 2.91e-03 1.06e-02 -1.66e-02  
## 1977 -2.50e-02 2.32e-02 2.45e-02 2.67e-02 -2.26e-02 -8.39e-03 9.10e-03  
## 1978 4.27e-03 3.88e-03 1.21e-03 6.41e-03 -8.57e-03 -8.67e-04 -8.00e-04  
## 1979 4.85e-03 7.69e-03 -3.01e-03 -1.27e-02 1.17e-02 6.33e-04 -1.40e-02  
## 1980 -1.28e-02 1.22e-02 9.63e-03 8.85e-03 1.83e-02 2.08e-03 6.71e-03  
## 1981 1.71e-02 2.36e-02 6.32e-03 1.98e-02 2.45e-02 1.71e-02 -3.44e-02  
## 1982 -1.68e-03 -2.12e-03 -8.91e-04 1.57e-04 -2.75e-03 -2.19e-03 8.37e-04  
## 1983 -2.09e-02 1.77e-02 1.02e-02 9.55e-03 2.37e-02 -3.39e-03 -1.81e-02  
## 1984 -1.14e-02 -2.36e-02 -4.20e-02 1.90e-02 -1.62e-02 1.43e-02 7.91e-03  
## 1985 -2.32e-03 -4.39e-03 2.84e-04 -2.30e-03 -4.06e-03 -3.50e-03 9.05e-03  
## 1986 7.45e-03 1.05e-02 -2.11e-02 -9.32e-03 3.89e-03 -2.21e-03 6.20e-03  
## 1987 4.84e-03 4.94e-03 -1.44e-03 -1.16e-03 -5.93e-03 -3.72e-04 -1.00e-02  
## 1988 -1.70e-03 -1.67e-02 -1.30e-02 9.46e-03 4.47e-03 1.17e-02 1.63e-02  
## 1989 -4.00e-04 2.06e-02 3.20e-03 1.98e-02 2.27e-02 2.43e-02 6.58e-03  
## 1990 9.89e-05 2.72e-03 -2.64e-04 1.48e-03 1.80e-03 -7.66e-04 -1.52e-05  
## 1991 1.55e-02 1.13e-02 -2.45e-02 -6.71e-03 3.52e-03 3.84e-03 -1.17e-02  
## 1992 3.32e-03 -4.93e-03 -1.16e-03 4.07e-04 5.39e-03 -4.96e-03 -1.21e-03  
## 1993 -1.91e-03 -4.70e-03 -1.87e-03 6.07e-04 -6.10e-03 -4.88e-03 1.36e-03  
## 1994 3.64e-03 1.65e-02 1.23e-02 3.32e-02 -2.22e-02 2.01e-02 -2.04e-02  
## 1995 2.20e-02 -1.44e-02 1.34e-02 -9.64e-03 -2.00e-03 -4.45e-03 3.95e-03  
## 1996 -2.19e-02 -1.80e-02 3.92e-02 1.35e-02 -5.78e-03 1.16e-03 1.90e-02  
## 1997 6.75e-03 -6.05e-03 -8.99e-04 1.76e-03 2.98e-03 -6.21e-03 -1.46e-03  
## 1998 -1.60e-03 8.20e-04 -1.21e-04 8.40e-04 5.15e-04 5.77e-04 1.77e-03  
## 1999 4.66e-02 2.57e-02 1.59e-02 -2.93e-02 -5.44e-03 1.15e-02 -4.10e-02  
## 2000 6.46e-03 -1.31e-02 1.23e-02 -9.97e-03 -1.96e-03 -1.04e-02 7.82e-03  
## 2001 2.13e-02 2.31e-02 1.25e-02 4.11e-03 2.79e-02 3.01e-03 -1.13e-03  
## 2002 1.48e-02 -1.89e-02 8.25e-03 -7.25e-03 -7.46e-03 1.73e-02 4.14e-02  
## 2003 9.89e-03 -1.14e-02 8.58e-03 -3.80e-03 -2.23e-03 -2.00e-03 -1.10e-02  
## 2004 -3.27e-03 1.36e-02 2.59e-03 -2.02e-02 3.19e-02 -9.23e-03 6.83e-03  
## 2005 -6.28e-03 -4.98e-03 -2.09e-05 -4.63e-04 5.00e-03 2.33e-03 7.15e-03  
## 2006 1.05e-02 -1.24e-02 1.03e-02 -5.33e-03 -2.12e-03 6.23e-03 4.83e-03  
## 2007 4.39e-03 2.13e-03 -3.18e-04 -4.02e-04 -2.85e-03 2.43e-03 -4.29e-03  
## 2008 -2.92e-02 2.07e-02 2.42e-02 2.83e-02 -2.59e-02 -1.26e-02 9.71e-03  
## 2009 7.44e-04 -1.10e-03 3.57e-04 1.94e-03 -2.11e-03 2.29e-04 1.20e-04  
## 2010 8.49e-03 6.08e-03 8.08e-05 -5.07e-03 -6.68e-03 -8.79e-04 -2.64e-03  
## 2011 -6.14e-03 -1.00e-02 -2.52e-03 -5.56e-03 -1.10e-02 3.52e-03 -1.52e-02  
## 2012 1.27e-02 1.20e-02 9.95e-03 -6.26e-03 -1.79e-03 -4.70e-03 4.62e-03  
## 2013 3.93e-05 -4.27e-04 1.24e-04 6.62e-04 -7.33e-04 1.71e-04 -1.43e-04  
## 2014 1.09e-02 1.98e-02 7.30e-03 -4.66e-03 -6.42e-03 1.54e-02 8.06e-03  
## 2015 2.27e-02 -2.43e-02 2.90e-02 2.65e-02 -3.10e-02 1.38e-02 -6.01e-04  
## 2016 2.46e-03 4.16e-03 -2.73e-03 -5.70e-03 6.18e-03 3.19e-03 -9.53e-04  
## 2017 4.91e-04 -1.14e-03 6.96e-05 5.18e-05 1.27e-03 8.10e-04 -2.05e-03  
## 2018 -3.79e-03 -1.72e-02 -1.49e-02 9.67e-03 2.92e-03 1.18e-02 1.89e-02  
## 2019 1.77e-03 9.62e-03 -1.83e-02 1.74e-02 -7.54e-03 3.46e-03 5.95e-03  
## 2020 -2.01e-02 1.71e-02 -1.00e-02 9.96e-03 6.09e-03 3.09e-03 1.89e-02  
## 2021 -5.19e-04 6.52e-04 2.31e-04 -1.60e-04 8.61e-04 1.36e-03 -2.38e-04  
## 2022 -5.31e-03 4.57e-03 1.03e-02 8.01e-03 -1.94e-03 -2.54e-03 5.71e-04  
## 2023 1.50e-03 -3.03e-03 -1.04e-03 -5.50e-03 4.96e-03 -1.01e-03 2.30e-04  
## 2024 -9.15e-04 -2.17e-03 1.51e-04 9.92e-04 1.61e-03 -3.54e-03 3.95e-04  
## 2025 2.45e-02 -2.88e-02 2.85e-02 3.15e-02 -3.52e-02 -2.92e-04 -5.09e-02  
## 2026 1.09e-02 1.01e-02 9.78e-04 1.44e-02 -1.99e-02 -8.29e-03 -1.96e-02  
## 2027 -1.73e-02 -1.29e-02 -2.85e-03 -1.15e-02 -1.34e-02 -1.77e-02 1.97e-02  
## 2028 6.50e-03 1.40e-02 1.30e-02 2.58e-02 -1.79e-02 -5.51e-03 -1.44e-02  
## 2029 -3.62e-02 -2.38e-02 5.65e-03 -5.61e-03 -1.19e-02 3.55e-02 9.27e-03  
## 2030 1.61e-03 1.62e-03 -1.87e-04 -5.83e-04 -1.66e-03 -1.05e-05 -2.55e-04  
## 2031 6.46e-03 -4.80e-03 -1.56e-04 9.51e-03 -1.08e-02 6.92e-03 -2.04e-03  
## 2032 -3.19e-02 2.08e-02 4.00e-02 -3.67e-02 1.63e-02 -1.32e-02 -9.87e-03  
## 2033 -3.38e-02 -2.17e-02 4.63e-02 1.22e-02 -6.52e-03 -2.79e-03 2.27e-02  
## 2034 1.18e-03 1.52e-02 8.88e-03 8.34e-03 2.03e-02 -8.26e-03 -1.76e-02  
## 2035 1.12e-02 -1.57e-02 1.42e-02 -9.87e-03 -2.90e-03 -5.44e-03 6.51e-03  
## 2036 -4.77e-03 -4.91e-03 2.11e-03 4.64e-03 -7.20e-03 3.00e-03 6.89e-03  
## 2037 -1.58e-03 2.61e-03 2.76e-04 9.30e-04 2.14e-03 -6.34e-03 3.39e-04  
## 2038 9.01e-03 -7.16e-03 1.82e-02 7.32e-03 -1.85e-03 1.81e-03 -1.57e-02  
## 2039 -3.93e-02 1.55e-02 3.69e-02 1.30e-02 -4.77e-03 4.54e-03 2.08e-02  
## 2040 7.01e-04 3.97e-03 -1.15e-04 1.35e-03 2.73e-03 -6.58e-03 -3.23e-04  
## 2041 -7.99e-04 -3.28e-03 -2.19e-03 4.76e-03 5.64e-04 -4.13e-03 5.48e-04  
## 2042 -2.02e-02 -1.34e-02 2.10e-04 1.61e-02 -2.61e-02 -1.89e-02 1.93e-02  
## 2043 2.79e-02 1.55e-02 -5.82e-03 6.13e-03 5.67e-03 6.17e-03 -1.35e-02  
## 2044 -1.44e-03 -1.23e-02 -2.48e-02 -1.23e-02 5.31e-03 -4.96e-03 -1.01e-02  
## 2045 -5.39e-04 -6.95e-03 -8.91e-03 -6.93e-03 6.64e-03 3.55e-03 2.38e-04  
## 2046 4.55e-04 1.94e-03 1.23e-03 2.31e-03 -3.09e-03 -2.34e-03 -4.45e-03  
## 2047 1.41e-03 3.43e-03 -2.52e-04 3.83e-04 2.71e-03 -9.37e-03 -1.60e-03  
## 2048 8.92e-03 -1.24e-02 -9.87e-03 1.29e-02 -2.56e-04 1.01e-02 -5.78e-03  
## 2049 -3.59e-03 -2.17e-02 2.67e-02 2.91e-02 -2.39e-02 -1.26e-03 6.43e-03  
## 2050 5.64e-04 1.78e-02 8.94e-03 -5.90e-03 -5.15e-03 1.84e-02 3.62e-02  
## 2051 1.51e-02 1.03e-02 -7.12e-03 1.05e-02 7.66e-04 5.28e-03 -5.66e-03  
## 2052 -1.37e-02 8.84e-03 -8.58e-03 9.80e-03 9.24e-04 5.86e-03 5.38e-04  
## 2053 -5.38e-02 1.93e-02 1.25e-02 3.70e-02 -2.89e-02 -9.96e-03 4.81e-02  
## 2054 -5.24e-03 -5.60e-03 9.30e-04 -7.90e-03 -2.61e-03 9.04e-04 9.14e-03  
## 2055 9.80e-03 1.29e-02 -9.42e-03 -4.86e-03 -1.82e-02 6.59e-03 -7.20e-03  
## 2056 -4.11e-03 -4.77e-03 -2.29e-04 -5.26e-04 5.03e-03 6.37e-04 7.03e-03  
## 2057 1.76e-03 -2.06e-02 1.84e-03 2.06e-02 2.55e-02 1.46e-02 1.03e-02  
## 2058 9.20e-05 -3.08e-04 -1.16e-04 3.82e-04 1.66e-04 6.13e-04 -3.88e-04  
## 2059 1.83e-03 1.59e-03 7.38e-06 -3.99e-04 -1.75e-03 3.40e-04 -8.46e-05  
## 2060 9.02e-04 -7.60e-04 7.39e-05 -4.42e-04 -7.06e-04 -3.06e-04 9.53e-05  
## 2061 -2.16e-02 -1.58e-02 -1.24e-02 1.27e-02 2.19e-03 9.96e-03 -2.46e-03  
## 2062 5.39e-05 2.67e-04 -3.34e-05 -3.87e-05 -2.53e-04 5.75e-04 -3.40e-04  
## 2063 -1.74e-04 8.57e-03 1.48e-02 -6.16e-03 5.08e-03 -9.31e-03 -2.20e-03  
## 2064 -2.78e-04 7.45e-03 -4.55e-03 7.19e-03 1.94e-03 8.44e-03 -1.31e-03  
## 2065 -7.98e-03 9.68e-03 7.13e-03 -4.21e-03 -3.13e-03 -8.96e-03 -8.31e-03  
## 2066 -2.68e-02 2.65e-02 1.67e-02 -2.73e-02 -7.03e-03 -3.33e-02 5.00e-02  
## 2067 -1.85e-03 -1.24e-03 -3.12e-04 3.46e-05 -1.35e-03 -1.03e-03 6.11e-04  
## 2068 -1.39e-04 -2.23e-04 -6.92e-05 -4.44e-04 4.56e-04 -1.53e-04 -2.47e-05  
## 2069 4.17e-03 4.70e-03 -9.48e-04 1.97e-03 2.54e-03 -1.29e-03 -1.15e-03  
## 2070 -2.36e-02 1.93e-02 -4.66e-02 -2.58e-02 8.02e-03 -1.55e-02 -2.41e-02  
## 2071 -7.94e-03 1.29e-02 2.61e-02 2.16e-02 -8.64e-03 8.00e-03 -5.50e-03  
## 2072 -2.96e-03 -7.67e-03 -6.69e-04 3.54e-03 3.48e-03 -3.76e-03 -2.21e-03  
## 2073 2.60e-02 1.44e-02 8.71e-03 -4.34e-03 -3.82e-03 1.54e-03 -1.85e-02  
## 2074 1.07e-03 6.74e-03 -9.80e-05 -5.41e-03 -6.11e-03 -3.90e-03 -1.33e-03  
## 2075 3.26e-03 5.56e-03 -4.47e-03 6.63e-04 -8.58e-03 -1.99e-04 6.18e-05  
## 2076 5.27e-04 7.71e-04 1.66e-03 -4.91e-04 7.00e-04 -3.55e-04 -1.30e-03  
## 2077 -4.37e-03 -1.48e-02 -7.82e-03 -8.70e-03 -1.96e-02 3.09e-03 1.84e-02  
## 2078 6.93e-03 5.02e-03 7.33e-04 8.96e-03 -1.12e-02 1.51e-03 -9.56e-03  
## 2079 -4.18e-02 2.42e-02 5.53e-03 -5.94e-03 -1.12e-02 3.52e-02 8.92e-03  
## 2080 2.34e-02 -1.54e-02 2.18e-03 -2.31e-02 3.59e-02 8.09e-03 -2.02e-02  
## 2081 6.51e-04 1.24e-02 -2.09e-02 1.56e-02 -7.12e-03 -3.57e-03 7.50e-03  
## 2082 2.12e-02 -1.52e-02 7.01e-03 1.20e-02 1.98e-02 -4.91e-03 -2.20e-02  
## 2083 -8.48e-03 2.01e-02 1.02e-02 -6.54e-03 -8.57e-03 2.65e-02 -2.68e-02  
## 2084 -8.29e-03 -7.46e-03 -2.98e-03 5.88e-03 2.37e-03 1.98e-03 -1.11e-02  
## 2085 -1.70e-03 -1.13e-03 -2.76e-04 1.04e-03 5.67e-04 7.10e-04 2.16e-03  
## 2086 -2.15e-03 -6.83e-03 -2.16e-03 -2.84e-03 -8.27e-03 1.07e-02 1.13e-02  
## 2087 4.47e-04 2.01e-03 -7.43e-04 -4.03e-03 3.65e-03 -2.25e-03 -7.89e-04  
## 2088 -2.03e-03 -5.73e-03 2.51e-03 5.78e-03 -8.49e-03 5.11e-04 7.73e-03  
## 2089 1.03e-02 5.77e-03 1.01e-03 9.23e-03 -1.23e-02 -6.13e-03 -1.08e-02  
## 2090 4.88e-03 -4.79e-03 -9.34e-04 2.15e-03 2.22e-03 2.70e-04 -9.53e-04  
## 2091 9.70e-03 -1.11e-02 7.79e-03 -3.61e-03 -3.24e-03 -1.78e-03 -1.07e-02  
## 2092 -3.68e-02 2.63e-02 3.47e-03 -6.97e-03 -1.34e-02 4.20e-02 7.93e-03  
## 2093 6.33e-03 2.08e-02 -1.61e-02 1.05e-02 3.89e-03 1.81e-02 1.39e-02  
## 2094 -9.94e-03 2.07e-02 -1.37e-02 7.81e-03 5.76e-03 1.30e-02 -1.11e-02  
## 2095 -4.39e-03 -1.16e-02 -1.17e-02 -1.80e-02 1.31e-02 5.44e-03 -1.38e-03  
## 2096 -7.54e-03 5.64e-03 -6.76e-03 -5.77e-03 6.81e-03 -3.98e-03 9.30e-04  
## 2097 -1.51e-02 2.07e-02 1.81e-02 3.28e-02 -2.79e-02 3.78e-03 5.43e-03  
## 2098 -7.18e-03 1.61e-02 -7.02e-03 2.97e-02 -4.09e-02 3.66e-03 -6.83e-03  
## 2099 -2.89e-02 1.86e-02 3.61e-02 -3.19e-02 1.38e-02 -7.04e-03 2.23e-02  
## 2100 -5.39e-04 9.78e-03 1.20e-02 1.98e-02 -1.22e-02 1.85e-03 5.52e-03  
## 2101 1.91e-02 1.29e-02 9.45e-03 -5.02e-03 -2.94e-03 2.19e-03 4.23e-03  
## 2102 -4.99e-04 7.66e-04 -7.28e-05 -1.73e-04 -8.86e-04 8.07e-04 9.59e-05  
## 2103 9.56e-03 1.53e-02 -1.85e-02 -2.31e-02 1.68e-02 6.07e-03 -9.13e-03  
## 2104 -5.50e-03 -5.26e-03 -2.32e-03 4.39e-03 1.16e-03 6.06e-03 -7.87e-05  
## 2105 -1.12e-04 1.47e-03 -2.34e-04 1.17e-03 9.50e-04 -1.27e-03 -1.82e-03  
## 2106 7.84e-03 -5.88e-03 -8.78e-04 1.71e-03 2.93e-03 -8.22e-03 -1.49e-03  
## 2107 -1.16e-04 2.40e-04 5.71e-05 -1.61e-04 -1.91e-04 -1.59e-04 1.00e-04  
## 2108 -1.12e-03 -3.32e-03 -4.07e-04 2.47e-03 1.62e-03 8.76e-04 -5.33e-03  
## 2109 -1.09e-03 1.01e-02 -6.97e-03 -2.15e-03 -1.40e-02 -5.58e-03 -1.42e-03  
## 2110 2.04e-03 2.99e-03 -8.72e-04 2.18e-03 1.14e-03 4.30e-03 -7.23e-04  
## 2111 -1.21e-04 -1.01e-03 -5.95e-04 1.50e-03 2.26e-04 -1.49e-03 3.56e-04  
## 2112 2.77e-03 -1.81e-02 8.15e-03 -6.83e-03 -6.65e-03 1.50e-02 4.16e-02  
## 2113 -2.06e-03 3.38e-03 1.22e-04 -2.81e-04 3.49e-03 -2.68e-03 -6.66e-03  
## 2114 -8.73e-03 -1.69e-02 -9.61e-03 -1.07e-02 -2.28e-02 5.59e-03 2.10e-02  
## 2115 1.53e-03 1.15e-03 -8.74e-05 -4.48e-04 -1.13e-03 1.20e-03 1.17e-04  
## 2116 7.80e-04 1.96e-03 -2.29e-04 5.47e-04 1.52e-03 -2.91e-03 -9.49e-04  
## 2117 5.77e-03 5.97e-03 -8.84e-04 1.44e-03 3.34e-03 -8.60e-03 -1.67e-03  
## 2118 8.89e-03 -1.37e-02 -4.18e-03 6.78e-03 5.76e-03 -1.31e-03 -2.94e-02  
## 2119 -1.38e-02 1.48e-02 -1.42e-02 1.13e-02 2.20e-03 8.81e-03 -4.18e-03  
## 2120 2.12e-02 -1.74e-02 1.52e-02 3.87e-02 -2.50e-02 3.32e-02 -2.81e-02  
## 2121 -3.33e-04 -1.41e-03 -2.67e-04 8.96e-05 -1.49e-03 -3.26e-04 -1.74e-03  
## 2122 -1.49e-02 1.02e-02 -3.28e-03 2.64e-03 4.74e-03 -8.84e-03 -4.26e-03  
## 2123 7.38e-03 -2.65e-02 2.06e-02 4.09e-02 -3.89e-02 -8.10e-03 -4.56e-02  
## 2124 1.48e-02 6.00e-03 -2.07e-03 -1.85e-03 -7.02e-03 3.89e-03 -1.27e-02  
## 2125 1.25e-02 -1.10e-02 9.06e-03 -3.82e-03 -2.31e-03 3.06e-03 5.10e-03  
## 2126 1.66e-02 -2.39e-02 1.80e-02 -2.60e-02 -7.16e-03 3.09e-04 1.08e-03  
## 2127 -4.80e-04 8.24e-04 1.31e-04 -3.32e-04 -7.31e-04 -1.62e-04 1.57e-03  
## 2128 9.64e-04 1.95e-03 2.86e-04 -1.54e-03 -1.78e-03 -8.50e-04 1.62e-04  
## 2129 1.57e-02 1.11e-02 -2.42e-02 -6.63e-03 3.51e-03 3.60e-03 -1.19e-02  
## 2130 7.41e-03 -6.41e-03 -8.52e-04 1.55e-03 3.23e-03 -8.69e-03 -1.68e-03  
## 2131 8.18e-03 -9.60e-03 -9.80e-03 1.23e-02 4.37e-04 3.61e-03 -2.26e-03  
## 2132 6.32e-04 1.86e-02 -7.85e-03 3.17e-02 -4.32e-02 7.49e-03 -9.91e-03  
## 2133 5.24e-03 4.69e-03 3.39e-04 -3.34e-03 -3.67e-03 -1.29e-02 -6.45e-03  
## 2134 -8.48e-04 3.62e-03 -8.11e-04 6.14e-04 3.64e-03 6.32e-04 -7.84e-04  
## 2135 1.01e-02 -1.62e-02 -7.83e-03 6.67e-03 4.76e-03 7.37e-04 -1.07e-02  
## 2136 1.43e-02 1.81e-02 1.16e-02 7.45e-03 2.51e-02 -5.87e-03 1.28e-03  
## 2137 5.50e-03 3.67e-03 1.07e-04 -3.20e-03 -3.81e-03 -2.02e-03 -5.10e-04  
## 2138 5.13e-04 -6.48e-03 1.74e-03 1.08e-02 -1.29e-02 1.42e-03 -1.97e-03  
## 2139 -8.76e-03 1.00e-02 2.43e-02 -1.32e-02 1.06e-02 -1.04e-02 -1.96e-02  
## 2140 -2.34e-03 1.06e-02 -2.46e-03 2.32e-03 4.30e-03 -3.77e-03 -5.12e-03  
## 2141 -2.10e-02 1.41e-02 -9.37e-03 7.05e-03 3.73e-03 4.60e-03 1.63e-02  
## 2142 4.96e-03 -3.80e-03 -2.64e-03 5.31e-03 5.71e-04 -2.02e-03 -6.27e-04  
## 2143 4.31e-03 4.02e-03 -8.53e-04 1.95e-03 2.08e-03 -4.60e-04 -1.05e-03  
## 2144 5.26e-03 4.43e-03 1.55e-03 6.78e-03 -9.64e-03 -4.52e-03 -1.16e-03  
## 2145 -9.85e-03 -1.41e-02 -1.20e-02 1.51e-02 1.19e-03 -1.46e-03 -2.36e-03  
## 2146 -1.52e-02 1.86e-02 -1.75e-02 1.22e-02 1.73e-03 8.14e-03 -9.05e-03  
## 2147 -3.15e-05 -1.07e-04 4.02e-05 -1.31e-04 -5.80e-05 -2.27e-04 1.37e-04  
## 2148 -8.27e-04 -1.51e-02 -7.65e-03 4.83e-03 4.38e-03 -1.60e-02 -3.05e-02  
## 2149 -9.52e-03 -1.53e-02 -1.52e-02 -2.56e-02 1.74e-02 6.89e-03 1.83e-02  
## 2150 -2.23e-04 -6.78e-04 3.28e-04 1.09e-03 -1.16e-03 -5.23e-04 1.76e-04  
## 2151 7.65e-03 1.48e-02 1.78e-02 2.37e-02 -1.60e-02 -2.79e-03 4.21e-03  
## 2152 1.53e-02 1.26e-02 8.47e-03 -4.47e-03 -2.81e-03 -3.33e-03 -1.41e-02  
## 2153 2.27e-03 1.11e-02 -1.29e-02 -1.29e-02 1.27e-02 -1.01e-02 -1.71e-03  
## 2154 4.57e-04 -3.76e-04 1.01e-05 -2.72e-05 -4.00e-04 -1.12e-04 -5.95e-04  
## 2155 1.38e-03 -3.16e-03 -2.42e-04 1.96e-03 2.30e-03 -7.76e-03 -4.71e-03  
## 2156 -1.00e-02 5.58e-03 -4.38e-04 -6.40e-04 6.02e-03 1.16e-03 -1.23e-04  
## 2157 8.04e-03 1.30e-02 9.27e-03 -4.74e-03 -2.51e-03 -1.01e-03 -1.34e-02  
## 2158 2.24e-03 1.50e-02 -1.64e-02 -2.35e-02 1.86e-02 4.13e-03 -6.23e-03  
## 2159 -4.56e-03 -1.23e-02 -2.12e-02 1.58e-02 -7.21e-03 -1.80e-03 9.72e-03  
## 2160 6.72e-04 -1.93e-03 3.33e-04 -1.38e-04 2.18e-03 1.49e-03 -3.83e-03  
## 2161 1.22e-03 -3.94e-03 -2.19e-04 1.62e-03 2.40e-03 -4.12e-03 -1.78e-05  
## 2162 1.29e-03 -4.67e-03 9.87e-03 -4.45e-03 3.54e-03 -1.18e-04 -3.73e-04  
## 2163 4.66e-04 -8.41e-03 -1.41e-02 1.25e-02 -5.45e-03 -1.31e-03 6.13e-03  
## 2164 1.30e-02 -1.02e-02 -1.87e-02 1.76e-02 -7.42e-03 3.69e-03 5.30e-03  
## 2165 3.12e-04 2.37e-03 6.05e-04 2.75e-03 -3.55e-03 -9.64e-04 -3.89e-04  
## 2166 3.25e-03 -4.77e-03 -3.13e-04 2.78e-03 2.35e-03 -2.33e-05 -1.53e-03  
## 2167 3.66e-03 -1.36e-02 -4.88e-03 4.70e-03 3.96e-03 -2.74e-03 -8.37e-03  
## 2168 -7.57e-03 -1.13e-02 -3.16e-03 3.11e-03 4.11e-03 -1.27e-02 -4.14e-03  
## 2169 -1.59e-02 1.85e-02 -1.30e-02 7.74e-03 3.99e-03 1.17e-02 1.83e-02  
## 2170 1.77e-03 -2.83e-03 -2.68e-04 1.54e-03 1.69e-03 -2.60e-03 7.04e-05  
## 2171 2.12e-02 2.09e-02 1.03e-02 -1.37e-02 -4.58e-03 -2.07e-02 -2.72e-02  
## 2172 -5.04e-04 -1.96e-03 4.19e-05 2.42e-04 1.78e-03 -4.65e-03 -7.46e-04  
## 2173 -3.93e-03 3.50e-03 6.48e-03 -2.15e-03 2.49e-03 -5.91e-03 1.24e-03  
## 2174 6.57e-04 -1.69e-03 5.94e-04 2.41e-03 -2.95e-03 -1.71e-03 -6.75e-04  
## 2175 2.50e-03 -4.15e-03 -9.20e-05 1.40e-03 2.64e-03 -8.19e-03 -2.90e-04  
## 2176 -3.41e-03 2.39e-03 5.12e-03 -1.90e-03 1.81e-03 -1.82e-03 4.46e-03  
## 2177 9.07e-03 -4.06e-03 -8.27e-04 -7.76e-04 -4.92e-03 6.90e-04 -7.99e-03  
## 2178 -4.47e-03 5.90e-03 -2.16e-03 -4.60e-04 -7.90e-03 -6.56e-03 4.61e-04  
## 2179 1.86e-03 1.05e-02 -2.40e-03 2.51e-03 3.97e-03 -8.51e-03 -5.11e-03  
## 2180 -2.29e-03 7.88e-03 -1.64e-02 -6.07e-03 3.48e-03 -1.85e-03 7.84e-03  
## 2181 -2.51e-03 -2.37e-02 4.30e-03 1.59e-02 2.76e-02 -1.93e-03 4.38e-02  
## 2182 2.43e-04 -1.61e-03 -2.60e-04 6.47e-04 1.31e-03 -9.19e-04 -6.63e-04  
## 2183 7.49e-06 2.33e-04 -1.85e-04 -2.20e-04 3.03e-04 -4.40e-04 6.43e-05  
## 2184 -8.30e-03 -1.01e-02 -4.86e-03 5.45e-03 2.29e-03 5.89e-03 1.60e-02  
## 2185 -3.88e-04 -2.72e-03 1.61e-04 3.25e-05 2.48e-03 -5.18e-03 3.03e-03  
## 2186 -3.64e-04 -2.28e-03 1.25e-03 2.42e-03 -3.47e-03 5.40e-04 3.55e-03  
## 2187 1.86e-03 6.99e-03 -1.53e-02 -4.80e-03 2.39e-03 -3.54e-03 -5.41e-03  
## 2188 -3.35e-05 -2.64e-05 -6.23e-05 2.35e-05 -2.54e-05 1.59e-05 5.53e-06  
## 2189 3.18e-04 8.25e-04 1.20e-04 1.87e-03 -1.84e-03 2.32e-03 1.54e-04  
## 2190 9.53e-03 -1.12e-02 7.82e-03 -3.64e-03 -3.29e-03 -1.65e-03 -1.06e-02  
## 2191 3.38e-03 -4.44e-03 -2.17e-03 -7.66e-03 7.12e-03 -8.03e-04 -6.61e-03  
## 2192 5.86e-03 -4.21e-03 9.18e-05 -3.20e-03 -4.05e-03 -1.62e-04 -4.17e-04  
## 2193 -5.21e-04 2.27e-03 -1.90e-03 -3.10e-03 2.99e-03 4.76e-03 -4.07e-03  
## 2194 3.82e-03 -9.41e-03 -3.99e-04 -6.71e-03 -1.00e-02 -4.83e-03 -1.59e-02  
## 2195 5.61e-05 -1.69e-04 -2.94e-06 5.20e-05 1.50e-04 -1.83e-04 2.01e-04  
## 2196 -4.31e-03 -8.31e-03 -1.94e-03 4.52e-03 4.54e-03 -2.20e-03 -2.99e-03  
## 2197 4.77e-03 -2.15e-03 -2.49e-04 2.07e-03 1.12e-03 9.56e-04 -1.08e-03  
## 2198 1.95e-02 -1.16e-02 -2.31e-02 2.11e-02 -9.06e-03 2.54e-03 -1.35e-02  
## 2199 5.78e-05 7.63e-05 -3.59e-05 1.06e-05 -1.06e-04 -3.87e-05 1.09e-05  
## 2200 -1.32e-02 -2.65e-02 1.74e-02 -3.83e-03 3.73e-02 2.02e-02 -1.22e-03  
## 2201 -6.41e-03 1.49e-02 3.21e-02 1.75e-02 -4.25e-03 2.39e-03 1.48e-02  
## 2202 -5.57e-03 -2.04e-02 -3.20e-02 1.80e-02 -9.24e-03 4.12e-04 7.08e-03  
## 2203 -1.56e-03 1.18e-02 1.17e-02 2.31e-02 -1.52e-02 -3.48e-03 -1.15e-02  
## 2204 -5.77e-03 5.17e-03 -9.72e-03 9.07e-03 -3.68e-03 -2.22e-03 5.65e-03  
## 2205 1.44e-02 6.62e-03 -3.25e-03 -1.27e-02 9.51e-03 -1.08e-02 -2.15e-03  
## 2206 -5.43e-03 -3.39e-03 -1.65e-03 4.37e-03 6.52e-04 -1.76e-03 9.09e-04  
## 2207 1.62e-03 -1.05e-02 -1.08e-02 -1.29e-02 1.28e-02 -1.90e-03 -2.07e-03  
## 2208 5.28e-04 3.65e-03 -1.52e-04 1.39e-03 2.49e-03 -5.22e-03 -2.31e-04  
## 2209 2.26e-03 -3.16e-03 5.82e-04 -2.45e-03 -2.56e-03 -8.41e-03 -4.36e-03  
## 2210 2.50e-03 1.32e-02 1.14e-02 -7.08e-03 -2.35e-03 -8.52e-03 -1.44e-02  
## 2211 3.17e-05 1.70e-04 1.05e-04 1.95e-04 -2.51e-04 -2.06e-04 -3.52e-04  
## 2212 9.37e-03 -6.92e-03 1.47e-02 1.15e-02 -4.10e-03 -5.52e-04 -2.67e-03  
## 2213 -5.82e-03 4.28e-03 -2.81e-04 -3.16e-04 4.43e-03 2.01e-03 6.34e-03  
## 2214 -2.69e-03 4.00e-03 -2.89e-04 -3.21e-04 4.27e-03 4.36e-04 -1.05e-03  
## 2215 -2.48e-02 1.83e-02 4.13e-02 1.73e-02 -6.16e-03 1.64e-02 1.87e-02  
## 2216 -2.93e-03 -4.40e-03 1.73e-03 4.50e-03 -6.49e-03 4.37e-04 -5.26e-04  
## 2217 -2.19e-04 8.17e-03 -1.64e-03 2.53e-05 7.54e-03 -7.62e-03 -2.70e-03  
## 2218 8.52e-03 1.47e-02 -1.19e-02 -4.42e-03 -2.30e-02 1.71e-03 -6.22e-03  
## 2219 8.23e-04 1.49e-02 1.50e-02 -1.17e-02 -1.17e-03 -6.74e-03 6.95e-03  
## 2220 1.37e-02 -1.45e-02 -2.65e-02 2.29e-02 -1.08e-02 -1.18e-03 -1.66e-02  
## 2221 -1.13e-02 9.33e-03 -5.61e-03 6.92e-03 4.40e-03 4.93e-04 1.51e-02  
## 2222 -5.51e-03 -3.27e-03 7.17e-04 -2.38e-03 -2.62e-03 -3.65e-03 6.69e-03  
## 2223 3.74e-04 3.97e-04 -4.53e-05 -1.15e-04 -4.12e-04 1.01e-03 5.48e-05  
## 2224 -3.64e-03 -4.86e-03 9.88e-03 -3.47e-03 3.57e-03 -8.53e-03 1.06e-03  
## 2225 -3.09e-02 1.67e-02 -1.48e-02 -3.53e-02 2.30e-02 -5.73e-03 2.27e-02  
## 2226 5.95e-04 -1.05e-03 -1.90e-04 4.96e-04 8.72e-04 -8.56e-04 -4.71e-04  
## 2227 2.33e-02 -1.41e-02 1.06e-02 -6.00e-03 -3.19e-03 -1.75e-04 -1.78e-02  
## 2228 4.74e-05 -1.04e-03 -2.19e-04 5.52e-04 8.22e-04 4.78e-04 -3.63e-04  
## 2229 1.75e-03 1.53e-03 -4.88e-04 1.48e-03 5.81e-04 3.01e-03 -5.38e-04  
## 2230 -4.13e-03 3.89e-03 6.45e-04 -2.85e-03 -3.37e-03 -4.26e-03 -5.93e-03  
## 2231 9.21e-03 -5.13e-03 -1.33e-03 -1.44e-03 -5.79e-03 -8.46e-04 -9.23e-03  
## 2232 -3.99e-02 1.96e-02 4.44e-02 1.27e-02 -6.20e-03 -1.87e-04 2.33e-02  
## 2233 9.73e-04 9.31e-03 -3.80e-03 -5.53e-03 -1.10e-02 -6.08e-03 1.44e-02  
## 2234 1.22e-02 -1.99e-02 -1.24e-02 6.80e-03 5.11e-03 2.06e-02 1.69e-02  
## 2235 4.45e-03 2.40e-03 -7.30e-05 3.01e-04 2.22e-03 -3.25e-03 -5.61e-03  
## 2236 -3.83e-03 2.29e-03 -6.56e-03 -1.03e-03 3.79e-03 1.29e-03 3.77e-03  
## 2237 3.74e-04 -4.43e-04 -4.15e-05 -8.25e-05 -4.18e-04 3.82e-04 -5.46e-04  
## 2238 1.30e-03 1.63e-03 -1.35e-04 -6.73e-04 -1.63e-03 1.74e-03 -2.41e-03  
## 2239 -2.05e-03 -1.21e-02 1.80e-02 -9.09e-03 5.30e-03 1.03e-03 -2.01e-03  
## 2240 -2.04e-02 2.64e-02 6.53e-03 -2.03e-02 -1.35e-02 -1.50e-02 5.02e-02  
## 2241 -3.20e-03 -2.74e-03 -2.10e-03 -2.53e-03 3.27e-03 -3.76e-03 1.07e-03  
## 2242 -2.46e-02 9.41e-03 5.49e-03 8.25e-03 1.31e-02 -7.35e-03 1.11e-02  
## 2243 1.54e-04 5.25e-04 2.44e-05 -4.35e-04 -3.61e-04 -8.37e-05 -1.59e-04  
## 2244 7.20e-03 7.59e-03 -2.24e-03 -3.93e-03 -9.00e-03 -3.05e-05 -1.39e-02  
## 2245 6.33e-03 -1.22e-02 -2.43e-03 4.68e-03 4.37e-03 7.87e-03 -7.22e-03  
## 2246 2.10e-03 -3.13e-03 -2.39e-04 1.54e-03 1.91e-03 -4.01e-03 -6.31e-07  
## 2247 1.64e-02 1.41e-02 -7.06e-03 7.22e-03 4.26e-03 5.59e-03 -1.33e-02  
## 2248 -1.91e-03 2.26e-03 1.09e-04 3.11e-04 2.21e-03 -5.62e-03 -6.57e-04  
## 2249 -4.58e-04 -5.57e-03 -1.45e-02 4.29e-03 -6.05e-03 -8.05e-04 -5.66e-04  
## 2250 9.10e-05 -1.67e-04 -3.42e-04 1.12e-04 -1.32e-04 1.84e-04 -3.63e-05  
## 2251 -1.98e-03 -9.80e-03 2.52e-03 1.30e-02 -1.94e-02 -4.14e-03 -2.79e-03  
## 2252 3.08e-03 -2.39e-03 1.24e-03 4.06e-03 -4.88e-03 -6.45e-04 -7.99e-04  
## 2253 7.14e-04 -2.57e-03 -8.94e-04 2.95e-03 5.72e-04 1.58e-03 -4.03e-03  
## 2254 3.09e-04 -2.19e-04 6.20e-05 -2.57e-04 -1.10e-04 -4.12e-04 7.12e-06  
## 2255 -1.33e-03 -3.12e-03 2.70e-04 1.16e-03 2.37e-03 -6.81e-03 6.24e-04  
## 2256 5.50e-03 1.67e-02 7.49e-03 -5.87e-03 -4.42e-03 -6.12e-03 -1.82e-02  
## 2257 -2.87e-03 -8.80e-03 -8.05e-03 -1.19e-02 9.96e-03 8.11e-03 -1.31e-02  
## 2258 7.34e-03 1.10e-02 7.81e-03 -3.91e-03 -2.91e-03 -2.34e-03 -1.11e-02  
## 2259 -4.45e-02 1.42e-02 8.86e-03 -7.89e-03 -4.72e-03 -1.45e-02 -9.93e-03  
## 2260 2.55e-04 8.71e-04 -4.72e-04 1.22e-03 2.22e-04 -1.00e-03 8.73e-05  
## 2261 -1.78e-02 -1.24e-02 9.11e-03 -6.30e-03 -2.26e-03 -1.62e-02 1.03e-02  
## 2262 3.89e-03 7.36e-03 1.51e-02 -6.88e-03 5.15e-03 -3.57e-03 9.15e-03  
## 2263 1.03e-04 -1.53e-04 -1.27e-04 -1.46e-04 2.09e-04 -2.51e-04 2.35e-05  
## 2264 4.14e-04 -1.02e-03 -1.66e-04 9.05e-04 6.66e-04 -7.49e-05 2.57e-04  
## 2265 2.79e-02 1.45e-02 8.48e-03 -4.01e-03 -3.94e-03 -9.52e-04 -1.80e-02  
## 2266 2.51e-03 9.43e-03 -2.04e-02 -6.65e-03 3.00e-03 -4.10e-03 -7.58e-03  
## 2267 -1.66e-02 -1.77e-02 3.36e-02 2.01e-02 -8.22e-03 1.29e-02 2.03e-02  
## 2268 2.54e-03 1.08e-02 9.37e-04 1.68e-02 -2.62e-02 -8.72e-03 -6.94e-03  
## 2269 1.03e-03 1.77e-03 -6.74e-04 -3.06e-03 2.92e-03 -3.67e-04 1.34e-04  
## 2270 -2.20e-02 -1.92e-02 5.62e-03 1.20e-02 2.28e-02 -1.58e-02 -1.91e-02  
## 2271 7.80e-03 -1.18e-02 6.91e-03 1.10e-02 1.51e-02 6.42e-03 5.00e-03  
## 2272 4.84e-03 -1.35e-02 2.52e-02 -1.43e-02 7.34e-03 7.80e-03 -6.40e-03  
## 2273 -2.09e-02 -2.36e-02 2.23e-02 -3.21e-02 7.75e-04 -1.68e-02 9.26e-03  
## 2274 3.11e-03 -1.15e-02 2.99e-02 7.60e-03 -1.61e-03 -7.13e-03 -7.25e-03  
## 2275 -2.00e-04 1.27e-03 3.18e-03 2.02e-03 2.55e-06 3.05e-03 -1.71e-03  
## 2276 1.84e-02 -2.09e-02 4.91e-02 1.78e-02 -8.61e-03 9.92e-03 -1.95e-02  
## 2277 -2.12e-02 1.82e-02 1.15e-02 -1.13e-02 -2.92e-03 9.18e-04 4.09e-02  
## 2278 1.69e-03 -1.91e-02 -4.44e-02 -8.46e-03 4.65e-02 4.25e-03 4.93e-03  
## 2279 2.12e-02 -1.19e-02 8.76e-03 -3.36e-03 -3.13e-03 -1.21e-04 -1.48e-02  
## 2280 1.75e-03 8.13e-03 2.23e-03 1.26e-02 -1.82e-02 -7.93e-04 -4.15e-03  
## 2281 5.99e-03 -2.31e-02 2.58e-02 2.96e-02 -2.65e-02 -1.36e-02 4.01e-03  
## 2282 1.92e-02 1.30e-02 2.99e-02 -2.19e-02 1.01e-02 -5.19e-03 -1.10e-02  
## 2283 6.64e-03 -2.77e-02 -5.47e-02 1.87e-02 -1.99e-02 4.29e-02 4.73e-04  
## 2284 -3.53e-03 -1.94e-02 -1.46e-02 7.41e-03 6.10e-03 1.25e-02 1.81e-02  
## 2285 3.49e-04 5.43e-04 9.16e-05 -8.35e-05 6.13e-04 3.53e-04 -1.59e-04  
## 2286 -2.10e-02 1.65e-02 1.53e-02 3.09e-02 -2.12e-02 1.44e-02 -1.76e-02  
## 2287 3.66e-03 9.25e-03 7.94e-03 -4.15e-03 -2.02e-03 -1.82e-03 5.52e-03  
## 2288 -2.49e-03 1.63e-03 -1.49e-04 1.49e-04 1.66e-03 1.06e-03 2.59e-03  
## 2289 -5.36e-04 -2.52e-03 1.43e-03 2.54e-03 -3.71e-03 1.22e-03 3.61e-03  
## 2290 -1.17e-02 -1.08e-02 9.77e-03 -6.23e-03 -1.71e-03 -9.52e-03 9.31e-03  
## 2291 2.53e-02 -1.68e-02 1.02e-02 -4.35e-03 -5.59e-03 3.40e-02 -2.68e-02  
## 2292 -1.73e-02 1.18e-02 3.31e-02 7.01e-03 -1.72e-03 -1.38e-02 -5.78e-03  
## 2293 -4.70e-03 2.52e-02 2.23e-02 3.06e-02 -3.07e-02 6.14e-03 2.39e-03  
## 2294 -1.08e-02 3.94e-03 -2.43e-03 4.19e-04 -5.70e-03 -1.95e-03 2.22e-03  
## 2295 9.56e-04 6.71e-04 9.98e-05 -6.60e-04 -4.24e-04 -1.05e-04 -1.95e-04  
## 2296 -1.94e-02 2.17e-02 1.28e-02 3.27e-03 2.90e-02 1.44e-02 4.29e-03  
## 2297 9.88e-03 -1.84e-02 -1.91e-02 -3.89e-02 2.37e-02 5.22e-03 -1.10e-02  
## 2298 -3.71e-03 -3.19e-03 1.53e-04 -2.97e-04 3.54e-03 9.27e-04 4.84e-03  
## 2299 -6.03e-03 -2.17e-02 6.05e-03 -6.16e-03 -9.57e-03 1.70e-02 1.28e-02  
## 2300 -1.73e-03 4.58e-03 -4.51e-03 -4.84e-03 5.70e-03 -1.55e-03 7.66e-03  
## 2301 1.61e-02 1.55e-02 -1.12e-02 -5.61e-03 -2.09e-02 -1.15e-03 -8.56e-03  
## 2302 -2.34e-02 -1.89e-02 -1.32e-02 6.25e-03 4.17e-03 -2.84e-03 2.19e-02  
## 2303 8.65e-03 -9.32e-03 9.73e-04 -8.67e-03 -8.71e-03 -5.00e-03 -3.79e-03  
## 2304 1.14e-03 1.89e-03 -1.01e-03 3.26e-04 -2.56e-03 -8.74e-04 3.04e-03  
## 2305 -1.51e-02 6.31e-03 -3.70e-03 7.64e-03 2.05e-03 -5.06e-03 2.48e-03  
## 2306 -6.81e-04 -1.35e-03 4.73e-04 -1.76e-03 -5.92e-04 -1.29e-03 -2.24e-03  
## 2307 1.32e-02 -9.35e-03 2.32e-02 4.51e-04 -1.79e-02 6.22e-03 1.01e-02  
## 2308 1.14e-04 3.07e-03 -2.57e-04 1.51e-03 2.05e-03 -2.16e-03 8.12e-06  
## 2309 4.73e-03 1.05e-02 -4.88e-03 -2.71e-03 -1.44e-02 -3.24e-03 -2.75e-03  
## 2310 -6.50e-03 3.57e-03 3.04e-04 -6.65e-04 4.16e-03 2.89e-03 4.96e-03  
## 2311 8.48e-03 7.53e-03 -1.01e-03 -3.29e-03 -8.69e-03 -3.62e-03 -1.44e-02  
## 2312 5.36e-03 5.78e-03 -9.50e-04 1.63e-03 3.20e-03 -6.65e-03 -1.48e-03  
## 2313 -2.51e-06 -2.19e-04 7.63e-06 -6.65e-05 -1.79e-04 1.75e-04 -2.42e-04  
## 2314 2.00e-04 2.65e-04 9.96e-05 -5.95e-05 3.04e-04 3.29e-04 -1.25e-04  
## 2315 -1.09e-02 1.79e-02 -8.56e-03 -1.45e-02 -2.29e-02 8.74e-03 2.04e-02  
## 2316 -3.83e-03 -2.23e-03 4.08e-05 -3.37e-05 2.26e-03 1.06e-03 3.61e-03  
## 2317 4.33e-04 -1.02e-02 1.79e-02 1.62e-02 -5.68e-03 2.34e-03 -2.52e-03  
## 2318 4.71e-04 1.97e-03 -7.34e-04 -3.93e-03 3.58e-03 -1.90e-03 -8.02e-04  
## 2319 -9.58e-03 1.41e-02 1.35e-02 -1.24e-02 -4.05e-04 -6.17e-03 9.84e-03  
## 2320 -5.58e-03 1.40e-02 -2.83e-02 2.25e-02 -9.45e-03 -1.74e-03 9.60e-03  
## 2321 1.55e-02 -6.61e-03 -6.44e-05 -6.43e-03 -6.86e-03 -1.08e-02 -1.89e-03  
## 2322 1.56e-04 -2.40e-03 -2.17e-03 -2.21e-03 2.65e-03 -1.44e-03 1.96e-04  
## 2323 -2.48e-03 -1.79e-02 3.29e-02 -2.43e-02 1.16e-02 7.02e-03 1.83e-02  
## 2324 2.16e-03 -1.72e-02 2.98e-02 -1.94e-02 9.42e-03 1.84e-03 -7.80e-03  
## 2325 -7.09e-03 -5.77e-03 -3.69e-03 6.36e-03 9.35e-04 8.57e-04 8.50e-04  
## 2326 5.24e-03 8.77e-03 -3.27e-03 -5.29e-03 -1.11e-02 3.21e-03 -1.82e-02  
## 2327 8.05e-03 -6.27e-03 -3.71e-03 -1.13e-02 9.95e-03 -3.94e-03 -9.89e-03  
## 2328 2.61e-03 -4.16e-03 -2.46e-03 -5.74e-03 6.04e-03 1.93e-03 -5.93e-04  
## 2329 -1.62e-03 1.04e-03 1.48e-04 2.07e-04 1.28e-03 -1.38e-03 1.69e-03  
## 2330 -1.10e-02 2.16e-02 3.75e-02 -3.19e-02 1.48e-02 -6.31e-03 -1.18e-02  
## 2331 6.04e-03 1.06e-02 -3.47e-03 3.80e-03 4.34e-03 -1.21e-03 -6.54e-03  
## 2332 1.76e-02 -1.62e-02 1.62e-02 2.97e-02 -1.98e-02 6.29e-03 -2.16e-02  
## 2333 -1.75e-03 2.00e-02 -3.93e-02 -3.20e-02 9.23e-03 5.82e-03 7.16e-03  
## 2334 7.59e-04 -3.95e-03 -1.60e-04 1.43e-04 3.47e-03 -1.11e-02 -2.09e-03  
## 2335 1.87e-03 9.93e-03 -1.96e-02 -9.93e-03 4.42e-03 -4.58e-03 7.20e-03  
## 2336 -1.38e-03 -4.16e-03 -1.01e-03 -1.07e-03 -4.64e-03 2.86e-03 7.27e-03  
## 2337 -1.90e-04 6.80e-04 5.05e-04 6.79e-04 -9.71e-04 1.28e-03 -1.89e-04  
## 2338 1.14e-02 -1.17e-02 -7.81e-03 1.08e-02 2.27e-03 7.18e-03 -4.75e-03  
## 2339 -4.92e-03 -1.38e-02 -8.57e-03 -2.81e-02 1.84e-02 -1.25e-02 -4.59e-03  
## 2340 -9.78e-03 -6.16e-03 1.76e-02 4.56e-03 6.85e-04 -9.84e-03 1.05e-02  
## 2341 1.47e-02 -5.96e-03 1.34e-03 8.91e-03 -1.28e-02 -1.06e-02 -1.93e-03  
## 2342 -4.31e-03 -3.93e-03 -2.34e-03 6.84e-04 -5.08e-03 -4.34e-03 1.56e-03  
## 2343 4.79e-03 4.97e-03 4.21e-04 -4.51e-03 -4.44e-03 -9.58e-03 -8.25e-03  
## 2344 -5.64e-04 2.05e-03 -8.49e-04 -3.34e-04 -2.76e-03 5.14e-03 3.88e-03  
## 2345 2.63e-03 -1.46e-03 4.86e-04 -1.79e-04 1.90e-03 1.41e-03 -9.50e-04  
## 2346 -6.96e-03 -2.14e-02 -1.80e-02 9.83e-03 4.71e-03 2.95e-03 -1.39e-02  
## 2347 4.29e-04 3.42e-03 -3.55e-05 -3.59e-03 -2.10e-03 -3.75e-05 -8.12e-04  
## 2348 1.25e-02 6.47e-03 -1.72e-03 2.40e-03 2.83e-03 -9.07e-03 -2.32e-03  
## 2349 -1.86e-02 2.07e-02 -1.58e-02 7.23e-03 4.00e-03 4.34e-03 2.05e-02  
## 2350 -3.16e-04 1.77e-03 6.05e-04 -1.66e-03 -1.28e-03 -4.45e-03 4.03e-04  
## 2351 2.39e-03 -3.46e-03 2.31e-04 1.71e-04 3.34e-03 -1.20e-03 -1.26e-03  
## 2352 -6.81e-03 6.20e-03 -3.92e-03 5.91e-03 1.53e-03 1.01e-02 -9.07e-04  
## 2353 -1.20e-04 2.72e-04 1.94e-04 2.86e-04 -3.58e-04 -2.52e-04 4.16e-04  
## 2354 -6.71e-05 1.61e-04 7.55e-05 2.24e-04 -2.50e-04 -3.35e-04 -3.29e-05  
## 2355 2.01e-02 7.96e-03 -5.83e-03 -1.13e-02 1.03e-02 1.02e-03 -1.73e-02  
## 2356 9.56e-04 -3.03e-03 -2.80e-04 5.76e-04 2.62e-03 -5.92e-03 -1.53e-03  
## 2357 2.09e-02 2.33e-02 -3.69e-03 -2.88e-02 4.53e-02 1.46e-02 5.43e-03  
## 2358 -2.44e-04 7.22e-03 -3.59e-03 -2.73e-03 -9.68e-03 1.35e-02 1.21e-02  
## 2359 -7.75e-03 1.20e-02 -4.99e-03 3.22e-03 4.59e-03 -1.32e-02 -5.94e-03  
## 2360 7.40e-03 1.78e-02 -1.91e-02 -3.15e-02 2.15e-02 3.15e-04 -1.19e-02  
## 2361 2.34e-03 1.67e-02 3.75e-02 1.55e-02 -5.36e-03 4.75e-03 -1.16e-02  
## 2362 1.56e-02 1.12e-02 -2.44e-02 -6.68e-03 3.52e-03 3.76e-03 -1.18e-02  
## 2363 -1.99e-03 1.10e-02 8.05e-03 -4.56e-03 -2.57e-03 -2.86e-03 -9.42e-03  
## 2364 1.31e-04 -3.14e-04 -2.68e-04 -2.96e-04 4.17e-04 -6.27e-04 1.08e-04  
## 2365 -4.60e-04 2.98e-04 -1.31e-04 4.05e-04 8.62e-05 -2.80e-04 1.08e-04  
## 2366 1.46e-04 2.21e-04 -1.62e-04 -1.97e-04 2.78e-04 -3.68e-04 9.91e-06  
## 2367 2.14e-02 -9.33e-03 -3.52e-03 3.13e-03 4.01e-03 -1.64e-02 -1.90e-02  
## 2368 -5.24e-03 -5.06e-03 -2.10e-04 -6.49e-04 5.27e-03 1.43e-03 7.34e-03  
## 2369 8.51e-05 1.38e-04 1.10e-05 2.09e-05 1.51e-04 -2.23e-04 -3.27e-05  
## 2370 5.70e-03 5.62e-03 -7.94e-04 1.43e-03 3.16e-03 -7.85e-03 -1.80e-03  
## 2371 8.08e-05 -2.55e-04 5.91e-04 -1.80e-04 2.12e-04 -4.42e-04 4.50e-04  
## 2372 -3.26e-03 1.12e-02 -3.79e-03 4.97e-03 6.11e-03 -8.85e-03 -4.64e-03  
## 2373 1.26e-03 2.84e-03 -3.92e-05 6.00e-03 -6.60e-03 4.83e-03 -6.14e-04  
## 2374 2.73e-02 1.92e-02 1.95e-02 3.01e-02 -2.15e-02 -1.15e-02 -2.79e-02  
## 2375 -1.02e-02 -1.61e-02 -2.68e-02 1.83e-02 -9.71e-03 2.00e-03 9.70e-03  
## 2376 9.14e-03 7.83e-03 -5.15e-03 -5.15e-04 -1.16e-02 2.53e-03 -1.98e-03  
## 2377 4.97e-04 3.60e-03 -1.67e-04 1.42e-03 2.45e-03 -4.74e-03 -2.17e-04  
## 2378 -1.36e-03 -3.21e-03 -6.63e-04 2.12e-03 1.83e-03 -3.03e-05 5.86e-03  
## 2379 -1.38e-02 1.03e-02 -4.87e-03 -8.95e-03 -1.42e-02 -5.63e-03 1.96e-02  
## 2380 -7.03e-03 1.41e-02 2.35e-02 -1.50e-02 6.61e-03 2.80e-03 -4.57e-03  
## 2381 -1.10e-02 -1.20e-02 -1.50e-04 1.53e-02 -2.39e-02 -1.37e-02 1.67e-02  
## 2382 -2.27e-03 -5.02e-03 -1.08e-03 -2.16e-03 -5.32e-03 6.62e-03 -2.83e-04  
## 2383 1.73e-02 2.25e-02 -1.78e-02 1.10e-02 5.42e-03 2.10e-02 -2.04e-02  
## 2384 3.03e-03 -1.51e-02 -6.74e-03 4.48e-03 4.24e-03 -9.03e-03 -8.95e-03  
## 2385 -2.53e-03 -2.68e-03 1.81e-04 -2.59e-04 3.51e-03 -1.25e-03 4.39e-03  
## 2386 3.26e-03 -3.29e-03 6.44e-04 -2.93e-03 -2.80e-03 -6.29e-03 1.04e-04  
## 2387 3.74e-03 1.49e-02 -8.21e-03 6.68e-03 5.22e-03 -5.75e-03 -3.41e-02  
## 2388 -1.46e-03 1.86e-02 -1.68e-02 1.32e-02 2.56e-03 7.20e-03 -1.08e-02  
## 2389 -1.30e-02 1.83e-02 9.10e-03 6.38e-03 2.33e-02 9.90e-04 7.39e-03  
## 2390 -1.19e-02 5.34e-03 -5.35e-03 7.60e-03 7.56e-04 3.00e-03 1.56e-03  
## 2391 -1.49e-02 -1.73e-02 3.15e-02 -2.11e-02 1.24e-02 -8.73e-03 -5.06e-03  
## 2392 -5.28e-03 -1.03e-02 2.19e-02 -1.29e-02 9.04e-03 -6.00e-03 -1.64e-03  
## 2393 1.69e-03 -9.89e-03 7.15e-03 -3.42e-03 -2.41e-03 -4.98e-03 -6.91e-03  
## 2394 -2.51e-03 -1.36e-02 -4.56e-03 -1.34e-02 -1.49e-02 -2.14e-02 1.89e-02  
## 2395 1.87e-02 -1.53e-02 -1.43e-02 -2.88e-02 1.96e-02 -1.42e-02 1.70e-02  
## 2396 1.75e-02 -1.14e-02 9.29e-04 2.00e-02 -2.82e-02 9.05e-03 1.08e-02  
## 2397 6.20e-03 9.39e-03 3.01e-02 1.70e-02 -2.61e-02 -6.66e-04 -6.07e-03  
## 2398 5.30e-03 4.49e-03 1.56e-03 6.87e-03 -9.77e-03 -4.47e-03 -1.15e-03  
## 2399 -7.29e-03 3.03e-03 1.71e-03 3.30e-03 -4.29e-03 -1.49e-03 5.88e-04  
## 2400 3.35e-03 -9.03e-03 -4.81e-03 -2.50e-03 -1.13e-02 -3.93e-03 -7.61e-04  
## 2401 -1.16e-02 1.16e-02 6.27e-03 8.99e-03 1.55e-02 -6.71e-03 -8.92e-03  
## 2402 -5.72e-03 9.61e-03 8.29e-03 -4.41e-03 -2.50e-03 -8.04e-03 -8.03e-03  
## 2403 1.28e-02 1.26e-02 1.21e-02 2.65e-02 -1.63e-02 5.66e-03 -1.57e-02  
## 2404 2.55e-04 8.61e-04 -1.36e-04 3.49e-04 6.55e-04 -6.75e-04 -3.68e-04  
## 2405 1.13e-02 8.67e-03 -1.78e-03 -5.02e-03 -9.50e-03 -2.30e-03 1.12e-02  
## 2406 -1.32e-02 -1.16e-02 -1.28e-02 -1.66e-02 1.34e-02 7.07e-03 -1.19e-05  
## 2407 -6.04e-05 -8.86e-05 -2.32e-05 -2.18e-04 1.96e-04 -1.44e-05 1.49e-04  
## 2408 3.81e-02 2.92e-02 1.59e-02 4.65e-02 -4.23e-02 -2.37e-02 -5.18e-02  
## 2409 -1.06e-03 6.21e-03 1.28e-03 -5.13e-03 -5.13e-03 -1.23e-02 9.95e-03  
## 2410 5.87e-03 -3.50e-03 -1.72e-03 -6.58e-03 5.89e-03 -3.46e-03 -5.72e-05  
## 2411 -1.17e-03 1.51e-02 -3.12e-02 7.58e-05 2.96e-02 -3.82e-03 6.15e-03  
## 2412 -3.33e-03 1.75e-02 -1.44e-02 1.50e-02 3.09e-03 -6.13e-03 -7.79e-03  
## 2413 -6.53e-03 8.76e-03 -3.25e-03 2.78e-03 3.69e-03 -5.70e-03 1.36e-02  
## 2414 2.43e-03 -1.60e-02 3.20e-02 1.81e-02 -7.62e-03 -3.33e-04 -8.39e-03  
## 2415 -6.12e-04 -5.73e-03 -1.55e-04 2.59e-03 2.71e-03 -5.88e-03 -1.74e-03  
## 2416 1.11e-03 1.06e-02 -1.53e-03 -9.97e-03 -1.10e-02 -1.56e-02 1.50e-02  
## 2417 -3.71e-03 6.33e-03 -6.25e-03 8.61e-03 2.69e-04 1.88e-02 1.10e-02  
## 2418 -3.36e-02 2.03e-02 4.51e-02 1.20e-02 -5.99e-03 -7.14e-03 2.14e-02  
## 2419 9.10e-04 -3.42e-03 -2.55e-04 1.62e-03 2.04e-03 -2.24e-03 5.86e-05  
## 2420 3.12e-04 2.41e-02 1.90e-02 -3.50e-02 -6.61e-03 3.90e-02 -3.36e-03  
## 2421 7.80e-03 5.28e-03 -1.86e-03 3.08e-03 2.30e-03 3.01e-03 -1.41e-03  
## 2422 5.35e-03 -1.14e-02 -1.04e-02 -2.14e-02 1.50e-02 -8.99e-03 1.56e-02  
## 2423 2.43e-02 -1.65e-02 9.49e-03 -4.83e-03 -5.42e-03 2.44e-02 -2.54e-02  
## 2424 -9.94e-03 -1.63e-02 8.81e-03 -3.63e-02 4.33e-02 -5.76e-03 9.13e-03  
## 2425 -3.19e-03 5.06e-03 9.90e-03 -4.65e-03 3.91e-03 3.89e-04 7.35e-03  
## 2426 -5.60e-03 4.20e-03 -6.59e-04 3.16e-03 2.61e-03 -1.59e-03 -2.58e-05  
## 2427 2.83e-02 -1.49e-02 -3.83e-02 -8.63e-03 3.65e-03 2.88e-02 -2.23e-02  
## 2428 2.01e-03 -3.50e-03 8.01e-03 -3.93e-03 3.49e-03 4.23e-03 -5.18e-03  
## 2429 -2.66e-03 8.47e-03 -1.36e-03 3.33e-03 4.28e-03 -5.33e-03 1.23e-02  
## 2430 8.60e-03 -5.47e-03 5.08e-04 -5.30e-03 -5.14e-03 -7.71e-03 -1.06e-03  
## 2431 1.20e-02 -1.23e-02 3.64e-04 1.92e-02 -2.60e-02 4.72e-04 -7.41e-03  
## 2432 -1.06e-02 -1.32e-02 2.95e-02 1.40e-02 -4.61e-03 9.56e-03 1.63e-02  
## 2433 8.91e-03 -7.95e-03 -2.19e-03 3.40e-03 3.75e-03 2.47e-04 -4.68e-03  
## 2434 -2.73e-02 1.11e-02 8.14e-03 -7.07e-03 -3.18e-03 -8.37e-03 1.18e-02  
## 2435 1.96e-03 1.88e-03 2.72e-04 -1.43e-03 -1.64e-03 -2.86e-03 1.18e-04  
## 2436 7.46e-03 3.56e-03 -4.77e-04 -2.20e-03 -3.92e-03 2.12e-03 -6.84e-04  
## 2437 -3.48e-02 -2.21e-02 4.86e-02 1.34e-02 -4.89e-03 8.03e-03 2.24e-02  
## 2438 6.93e-03 -8.76e-03 -1.79e-02 -6.60e-03 2.73e-03 -1.03e-03 6.18e-03  
## 2439 -6.51e-05 -1.66e-04 -6.67e-05 4.23e-05 -1.98e-04 -2.49e-04 5.59e-05  
## 2440 -3.58e-03 1.27e-02 -2.46e-02 -1.47e-02 5.79e-03 -5.44e-03 8.73e-03  
## 2441 -1.17e-02 -1.11e-02 -3.71e-03 -6.64e-03 -1.30e-02 8.19e-03 1.61e-02  
## 2442 -4.04e-03 1.25e-02 1.19e-02 -8.55e-03 -2.64e-03 -4.90e-03 7.69e-03  
## 2443 -1.58e-02 1.74e-02 -1.30e-02 7.44e-03 3.67e-03 4.01e-03 1.83e-02  
## 2444 -1.20e-02 8.93e-03 -1.84e-02 -8.95e-03 3.80e-03 -6.36e-03 9.93e-03  
## 2445 1.51e-02 1.12e-02 -2.40e-03 -8.98e-03 -1.35e-02 -7.04e-03 -7.51e-03  
## 2446 4.87e-05 -2.74e-04 -8.55e-05 6.38e-05 -3.58e-04 -4.89e-04 1.04e-04  
## 2447 -2.60e-03 -2.02e-02 8.33e-03 8.65e-03 2.11e-02 4.48e-04 4.66e-03  
## 2448 1.60e-02 -1.23e-02 -2.50e-02 -1.05e-02 4.77e-03 3.35e-03 5.90e-03  
## 2449 -2.36e-02 -2.19e-02 4.54e-02 1.53e-02 -7.97e-03 -7.37e-03 -1.24e-02  
## 2450 6.67e-04 1.56e-03 4.41e-04 -1.92e-03 -8.87e-04 -4.13e-03 1.74e-03  
## 2451 -1.03e-02 1.31e-02 8.63e-03 -4.86e-03 -3.43e-03 -1.08e-02 -1.19e-02  
## 2452 -2.11e-05 1.03e-04 5.27e-06 -3.88e-05 -8.91e-05 6.97e-05 -1.31e-04  
## 2453 -1.09e-02 8.53e-03 1.70e-02 -8.68e-03 6.66e-03 -4.99e-04 1.34e-02  
## 2454 -7.02e-03 1.07e-02 2.05e-02 -9.29e-03 8.50e-03 -1.37e-02 -9.48e-04  
## 2455 1.19e-02 6.81e-03 -1.85e-03 2.43e-03 3.06e-03 -8.21e-03 -2.27e-03  
## 2456 3.31e-04 1.34e-03 -2.11e-04 4.97e-04 1.02e-03 -1.44e-03 -5.15e-04  
## 2457 -7.25e-04 1.87e-03 5.77e-04 -2.25e-03 -8.92e-04 -6.38e-03 -4.31e-04  
## 2458 2.50e-02 1.04e-02 2.49e-03 1.33e-02 -1.98e-02 -1.37e-03 -7.42e-03  
## 2459 -7.67e-04 2.27e-02 -2.47e-02 -3.99e-02 2.49e-02 -8.40e-03 -1.10e-02  
## 2460 1.04e-02 1.02e-02 8.76e-03 -3.80e-03 -1.85e-03 2.27e-03 3.89e-03  
## 2461 7.29e-03 -1.65e-02 1.06e-02 -5.23e-03 -4.06e-03 3.10e-02 -2.18e-02  
## 2462 1.56e-03 -2.16e-03 -2.40e-04 5.81e-04 1.89e-03 -4.95e-03 -1.16e-03  
## 2463 -4.17e-03 9.24e-03 -4.36e-03 -2.30e-03 -1.29e-02 -2.73e-03 -8.35e-04  
## 2464 -1.32e-02 -1.61e-02 1.39e-02 3.24e-02 -2.20e-02 1.66e-02 -1.57e-02  
## 2465 4.46e-04 -2.48e-03 -2.94e-04 1.50e-03 1.42e-03 7.77e-04 1.48e-04  
## 2466 1.41e-04 -2.47e-04 -1.58e-04 -2.97e-04 4.05e-04 4.46e-04 -3.05e-04  
## 2467 -1.13e-02 1.93e-02 2.51e-02 2.42e-02 -2.08e-02 -4.79e-03 6.86e-03  
## 2468 7.25e-04 -5.12e-03 2.01e-03 5.72e-03 -8.00e-03 -1.34e-03 6.33e-03  
## 2469 8.07e-03 -5.26e-03 4.12e-04 -4.89e-03 -4.97e-03 -6.03e-03 -9.06e-04  
## 2470 9.92e-03 -1.42e-02 -1.47e-02 1.55e-02 -1.01e-04 1.04e-02 -6.64e-03  
## 2471 -9.74e-04 -9.38e-04 -2.72e-04 1.03e-03 3.86e-04 -1.98e-04 1.63e-03  
## 2472 -2.86e-03 -3.51e-03 1.38e-03 3.99e-03 -5.50e-03 -9.68e-04 7.97e-05  
## 2473 -6.16e-03 2.03e-02 -1.30e-02 6.80e-03 5.35e-03 1.32e-02 1.88e-02  
## 2474 -1.49e-02 9.81e-03 -3.28e-03 2.97e-03 4.46e-03 -7.03e-03 -3.78e-03  
## 2475 -6.09e-04 -9.72e-04 1.77e-05 1.54e-04 9.43e-04 3.48e-04 1.30e-03  
## 2476 9.07e-03 -1.80e-02 -2.97e-02 1.60e-02 -8.70e-03 1.43e-03 5.01e-03  
## 2477 -7.47e-05 5.28e-04 1.23e-03 -4.90e-04 5.84e-04 5.66e-04 -6.54e-04  
## 2478 -1.58e-03 -1.31e-02 -8.19e-03 -2.72e-02 1.78e-02 -1.59e-02 -5.12e-03  
## 2479 -2.08e-02 -2.03e-02 -4.55e-02 -1.62e-03 3.84e-02 -8.86e-03 9.14e-03  
## 2480 5.76e-03 4.26e-03 2.11e-04 -4.10e-03 -4.42e-03 -3.03e-03 -6.23e-04  
## 2481 6.14e-03 1.34e-02 1.16e-02 -7.77e-03 -1.50e-03 -4.13e-03 6.38e-03  
## 2482 -6.32e-03 -1.36e-02 -5.73e-03 -7.50e-03 -1.78e-02 -2.78e-03 -1.06e-03  
## 2483 3.16e-03 3.34e-03 -4.59e-04 1.80e-03 1.47e-03 1.50e-03 -1.12e-03  
## 2484 -6.72e-03 -2.36e-02 8.44e-03 -1.64e-02 -6.78e-03 -2.69e-02 1.05e-02  
## 2485 -4.76e-03 2.34e-03 3.69e-04 -3.96e-05 2.85e-03 -2.01e-03 4.00e-03  
## 2486 -2.09e-02 9.10e-03 2.41e-04 1.99e-02 -2.11e-02 -3.38e-03 1.65e-03  
## 2487 3.26e-03 -2.26e-03 -1.28e-03 -3.58e-03 3.31e-03 3.48e-03 -6.76e-05  
## 2488 -2.74e-02 -2.08e-02 1.24e-02 3.88e-02 -2.82e-02 3.49e-03 -2.25e-02  
## 2489 1.29e-02 -1.96e-02 -2.52e-02 -4.19e-02 2.64e-02 3.08e-03 -1.40e-02  
## 2490 3.90e-02 -1.77e-02 1.61e-02 -1.57e-02 -2.44e-03 -8.94e-03 4.62e-04  
## 2491 3.54e-03 -2.70e-03 -1.42e-03 -4.50e-03 4.34e-03 9.94e-04 1.43e-04  
## 2492 -4.88e-04 1.36e-03 5.36e-05 7.19e-04 1.02e-03 -2.40e-03 2.76e-04  
## 2493 8.61e-03 -5.96e-03 -2.28e-03 -1.25e-02 9.26e-03 -8.44e-03 -1.41e-03  
## 2494 4.89e-03 6.56e-03 -3.71e-03 -1.22e-02 9.33e-03 3.93e-03 -2.88e-03  
## 2495 3.59e-04 1.72e-03 4.50e-04 3.72e-03 -3.70e-03 1.62e-03 -4.42e-04  
## 2496 6.14e-05 1.97e-04 2.57e-05 -6.34e-05 -2.16e-04 9.62e-05 2.90e-06  
## 2497 2.01e-03 -3.29e-03 -1.65e-04 2.64e-04 2.96e-03 -1.09e-02 -1.88e-03  
## 2498 -8.71e-05 2.19e-04 9.31e-05 -2.70e-04 -9.24e-05 -6.51e-04 2.74e-04  
## 2499 -2.95e-04 -3.80e-04 -9.33e-06 1.60e-04 3.63e-04 -3.17e-04 -8.63e-05  
## 2500 1.06e-02 -1.54e-02 9.07e-03 -4.82e-03 -4.73e-03 -3.17e-04 -1.67e-02  
## 2501 3.62e-03 -2.12e-03 -4.20e-05 -1.14e-03 -2.14e-03 -2.06e-04 1.37e-04  
## 2502 -1.59e-05 5.61e-04 -1.34e-03 4.51e-04 -6.17e-04 -1.13e-03 6.97e-04  
## 2503 -2.09e-05 -1.52e-04 9.61e-05 1.76e-04 -2.47e-04 -3.46e-04 1.87e-04  
## 2504 -1.51e-03 -4.47e-03 -2.87e-03 6.04e-03 8.82e-04 -5.25e-03 5.15e-04  
## 2505 -3.03e-04 4.22e-04 2.86e-04 4.77e-04 -6.92e-04 -8.78e-04 5.18e-04  
## 2506 1.39e-02 -1.08e-02 8.88e-03 -3.59e-03 -2.46e-03 1.31e-03 5.58e-03  
## 2507 -8.60e-03 1.20e-02 2.41e-02 -1.46e-02 9.44e-03 -6.28e-03 1.50e-02  
## 2508 9.86e-03 -4.65e-03 -1.85e-03 -8.88e-03 7.52e-03 -2.87e-03 -2.43e-03  
## 2509 1.05e-03 -1.84e-03 -2.99e-04 6.99e-04 1.56e-03 -2.69e-03 -7.97e-04  
## 2510 1.65e-03 1.25e-02 -2.46e-02 -1.30e-02 5.77e-03 -6.12e-03 7.98e-03  
## 2511 1.21e-03 -1.81e-03 -1.06e-03 2.72e-03 5.06e-04 -2.78e-03 1.43e-04  
## 2512 1.87e-03 8.41e-03 -1.67e-02 -7.94e-03 3.72e-03 -3.55e-03 5.84e-03  
## 2513 1.48e-02 -1.22e-02 -2.61e-02 -7.45e-03 3.65e-03 8.90e-03 -1.21e-02  
## 2514 1.33e-02 1.96e-02 -1.80e-02 1.42e-02 2.49e-03 4.59e-03 -1.27e-02  
## 2515 6.90e-03 2.36e-02 -2.49e-02 -4.48e-02 2.90e-02 3.45e-03 -1.63e-02  
## 2516 1.44e-03 -1.10e-03 3.31e-04 -5.25e-04 -9.44e-04 -6.03e-05 -2.78e-04  
## 2517 1.26e-02 -1.45e-02 -2.41e-02 1.80e-02 -7.78e-03 4.50e-04 4.82e-03  
## 2518 4.88e-03 4.66e-03 -9.56e-04 -1.08e-03 -6.24e-03 4.69e-03 -9.70e-03  
## 2519 -1.06e-04 1.56e-03 -2.33e-04 5.55e-04 1.26e-03 -1.02e-03 -6.60e-04  
## 2520 2.81e-03 -3.94e-03 -1.23e-03 -9.94e-03 8.07e-03 -1.25e-02 -2.10e-03  
## 2521 3.64e-04 -7.71e-04 2.42e-04 -7.90e-05 9.10e-04 7.20e-04 -2.80e-04  
## 2522 -2.56e-02 -2.50e-02 3.42e-03 -6.02e-03 -1.41e-02 3.69e-02 8.16e-03  
## 2523 3.66e-03 1.08e-02 9.79e-03 -5.57e-03 -1.28e-03 -1.57e-03 6.89e-03  
## 2524 5.20e-03 1.24e-02 9.39e-03 -6.10e-03 -2.84e-03 1.45e-03 -1.36e-02  
## 2525 1.01e-02 -2.73e-02 -7.40e-02 -3.60e-02 3.89e-03 -1.79e-02 1.03e-02  
## 2526 2.25e-02 -1.88e-02 -1.18e-02 8.80e-03 3.73e-03 2.33e-02 1.35e-02  
## 2527 -3.77e-05 6.36e-05 4.14e-05 7.31e-05 -1.04e-04 -1.46e-04 8.01e-05  
## 2528 -1.33e-03 -1.22e-02 2.82e-02 1.56e-02 -4.67e-03 1.55e-04 1.50e-02  
## 2529 -3.25e-03 1.77e-03 -3.73e-04 -3.82e-05 -1.88e-03 1.92e-03 4.12e-03  
## 2530 9.80e-04 1.98e-03 -1.84e-03 -1.96e-03 2.23e-03 -1.06e-03 3.20e-04  
## 2531 -1.68e-03 1.03e-03 -2.56e-03 7.42e-04 -9.71e-04 1.05e-03 1.71e-03  
## 2532 -2.32e-02 -2.91e-02 7.07e-03 -1.93e-02 -1.57e-02 2.36e-02 4.43e-02  
## 2533 4.73e-04 -2.04e-03 9.21e-04 -3.00e-03 -6.17e-04 2.95e-03 -3.84e-04  
## 2534 -1.11e-02 6.33e-03 -1.58e-04 -3.96e-03 -6.32e-03 -4.07e-03 1.34e-02  
## 2535 -2.56e-04 1.73e-03 8.19e-05 1.14e-04 1.55e-03 -2.97e-03 1.76e-03  
## 2536 1.80e-04 -3.36e-04 -1.84e-04 5.10e-04 9.16e-05 -4.17e-04 9.67e-07  
## 2537 -4.48e-04 -1.66e-03 -4.51e-04 1.71e-04 -1.77e-03 1.51e-03 3.06e-03  
## 2538 -1.44e-03 6.81e-03 1.56e-03 1.38e-02 -1.61e-02 5.40e-03 -1.45e-03  
## 2539 -1.76e-04 -1.39e-02 9.42e-03 -7.75e-03 -3.98e-03 -1.35e-02 9.63e-03  
## 2540 1.68e-02 -1.08e-02 -6.04e-03 -2.05e-02 1.78e-02 -5.00e-03 -2.56e-02  
## 2541 -2.14e-03 1.58e-03 -3.10e-05 1.30e-04 1.76e-03 -1.45e-03 -9.45e-06  
## 2542 1.70e-02 -8.14e-03 -2.29e-03 5.61e-03 2.80e-03 6.23e-03 -5.10e-03  
## 2543 5.64e-04 3.23e-04 4.53e-05 -2.91e-04 -2.04e-04 -3.73e-04 -6.65e-04  
## 2544 -2.98e-02 1.89e-02 4.14e-02 1.34e-02 -6.19e-03 -6.17e-03 2.11e-02  
## 2545 5.69e-03 5.80e-03 -8.61e-04 1.48e-03 3.25e-03 -7.86e-03 -1.70e-03  
## 2546 6.98e-04 2.04e-03 -2.45e-04 5.51e-04 1.58e-03 -3.46e-03 -8.98e-04  
## 2547 7.34e-03 -4.31e-03 -8.48e-04 1.98e-03 2.07e-03 -4.41e-03 -1.09e-03  
## 2548 1.71e-03 -2.53e-03 -1.48e-03 -3.69e-03 3.91e-03 2.83e-03 -3.36e-03  
## 2549 7.20e-03 7.01e-03 1.97e-02 4.00e-03 -6.35e-05 -1.18e-02 -3.03e-03  
## 2550 -1.26e-03 -1.16e-02 -4.87e-03 5.54e-03 2.87e-03 3.83e-03 -5.14e-03  
## 2551 1.07e-02 -1.16e-02 -3.81e-03 4.95e-03 5.09e-03 -1.15e-03 -7.25e-03  
## 2552 -3.29e-03 1.06e-02 -1.20e-02 -1.53e-02 1.27e-02 9.73e-03 -2.30e-03  
## 2553 -1.58e-02 1.02e-02 -3.47e-03 2.94e-03 4.62e-03 -7.22e-03 -3.61e-03  
## 2554 2.12e-04 -1.87e-03 -2.93e-04 1.33e-03 1.03e-03 2.21e-03 1.73e-04  
## 2555 1.98e-05 2.44e-04 -1.93e-04 -2.26e-04 3.16e-04 -3.99e-04 5.75e-05  
## 2556 -5.42e-03 -2.17e-02 1.95e-02 -2.13e-02 -2.39e-03 -1.91e-02 7.91e-03  
## 2557 -3.78e-04 -1.20e-03 -5.38e-04 2.44e-04 -1.42e-03 -1.45e-03 3.78e-04  
## 2558 -2.40e-03 1.32e-03 -1.55e-04 -1.21e-04 -1.50e-03 1.05e-03 3.12e-03  
## 2559 -3.22e-04 -1.29e-02 -2.63e-02 -1.40e-02 4.88e-03 -1.20e-02 1.02e-02  
## 2560 -2.47e-02 -2.03e-02 6.94e-03 -1.27e-02 -7.23e-03 3.20e-03 4.31e-02  
## 2561 6.28e-03 -4.12e-03 3.48e-04 -3.17e-03 -3.73e-03 -1.24e-02 -6.36e-03  
## 2562 -5.96e-03 4.01e-03 -1.96e-04 -3.41e-04 4.30e-03 2.98e-03 5.78e-03  
## 2563 8.04e-04 -2.09e-02 2.84e-02 2.59e-02 -2.41e-02 -1.02e-02 3.97e-03  
## 2564 -2.72e-04 1.26e-03 4.04e-04 -1.09e-03 -9.32e-04 -2.45e-03 3.08e-04  
## 2565 5.62e-05 1.94e-03 1.06e-03 2.14e-03 -3.17e-03 -4.29e-03 2.11e-03  
## 2566 -3.87e-04 -1.41e-02 1.68e-02 2.18e-02 -1.58e-02 -1.24e-03 6.86e-03  
## 2567 -5.26e-03 -8.68e-03 -1.69e-03 -2.59e-03 -9.93e-03 -5.77e-03 1.35e-02  
## 2568 -3.14e-04 1.86e-03 1.05e-03 2.09e-03 -3.10e-03 -3.90e-03 2.08e-03  
## 2569 -1.05e-03 1.76e-02 7.50e-03 -4.77e-03 -5.05e-03 7.44e-03 1.07e-02  
## 2570 6.96e-03 -1.40e-02 -2.67e-02 -1.80e-02 7.37e-03 -1.28e-03 6.50e-03  
## 2571 3.69e-03 -2.47e-03 -7.18e-04 1.85e-03 1.05e-03 2.73e-03 -3.84e-04  
## 2572 1.14e-02 -7.51e-03 -4.08e-03 -1.10e-03 -1.11e-02 3.93e-04 1.03e-02  
## 2573 -2.43e-03 6.91e-03 6.40e-03 -3.13e-03 -1.32e-03 -3.65e-03 6.12e-03  
## 2574 -1.77e-02 1.71e-02 -4.12e-02 3.56e-03 3.23e-02 -1.60e-02 -1.46e-02  
## 2575 7.61e-04 -1.19e-03 1.08e-04 -1.11e-03 -8.40e-04 -1.07e-03 -4.20e-04  
## 2576 5.85e-03 -1.82e-02 4.59e-02 3.91e-02 -5.38e-02 1.43e-02 -9.16e-03  
## 2577 5.94e-03 4.78e-03 -9.01e-04 1.87e-03 2.43e-03 -4.76e-03 -1.19e-03  
## 2578 3.38e-02 -2.00e-02 -9.59e-03 3.63e-02 -4.99e-02 1.89e-02 -1.90e-02  
## 2579 7.42e-04 1.76e-03 -5.07e-03 -2.50e-03 -2.93e-05 -1.91e-04 -9.45e-05  
## 2580 4.00e-03 -2.98e-03 -2.33e-03 -3.93e-03 4.11e-03 4.41e-03 -7.17e-04  
## 2581 -1.27e-04 -2.06e-04 -4.70e-06 1.49e-04 1.41e-04 4.65e-05 5.97e-05  
## 2582 2.40e-03 -1.99e-03 -1.46e-04 -8.93e-04 -1.97e-03 4.20e-03 -4.25e-05  
## 2583 5.90e-04 1.15e-03 4.21e-04 2.11e-03 -2.34e-03 -2.35e-04 9.80e-05  
## 2584 -2.95e-03 -8.78e-03 -1.15e-03 2.60e-03 3.31e-03 -1.92e-03 -2.95e-03  
## 2585 1.32e-02 -9.51e-03 -1.95e-02 -6.38e-03 3.26e-03 3.16e-03 4.95e-03  
## 2586 5.13e-03 -1.41e-02 2.77e-02 -2.00e-02 9.70e-03 2.47e-03 1.35e-02  
## 2587 4.19e-03 -1.20e-02 -9.53e-03 -9.12e-04 -1.72e-02 5.28e-03 -1.87e-03  
## 2588 5.76e-03 -5.30e-03 -9.00e-04 1.99e-03 2.54e-03 -2.30e-03 -1.26e-03  
## 2589 -3.21e-04 3.32e-03 -2.77e-04 4.81e-04 2.83e-03 -5.44e-03 -1.68e-03  
## 2590 8.97e-04 -3.39e-03 -3.03e-03 -3.54e-03 4.40e-03 -5.72e-03 1.31e-04  
## 2591 1.81e-04 -4.98e-04 -3.01e-04 -4.81e-04 6.49e-04 -1.53e-04 -6.97e-04  
## 2592 4.89e-03 -8.55e-03 -9.76e-04 -5.77e-03 -8.55e-03 -6.17e-03 -2.94e-03  
## 2593 1.36e-03 4.10e-03 -4.60e-03 -3.85e-03 4.88e-03 -3.34e-03 -8.91e-05  
## 2594 -1.19e-02 -1.82e-02 -1.30e-02 7.77e-03 3.22e-03 3.60e-03 1.89e-02  
## 2595 -3.74e-03 5.26e-03 8.64e-04 -7.13e-03 -2.31e-03 -3.98e-03 -6.54e-05  
## 2596 -3.12e-02 -1.80e-02 -1.06e-02 5.39e-03 4.86e-03 -2.58e-03 2.21e-02  
## 2597 -1.82e-04 -6.99e-04 -2.96e-04 1.14e-04 -9.26e-04 -8.58e-04 2.21e-04  
## 2598 3.18e-03 -5.51e-03 -2.84e-03 2.19e-04 -7.51e-03 -3.63e-03 2.49e-04  
## 2599 2.74e-06 -3.79e-05 -2.09e-05 5.63e-05 8.98e-06 -5.65e-05 7.53e-06  
## 2600 3.44e-03 -1.65e-02 -1.46e-02 1.49e-02 1.02e-03 7.23e-03 -8.53e-03  
## 2601 4.18e-04 -4.13e-03 -9.40e-05 1.83e-03 2.95e-03 -7.70e-03 4.33e-04  
## 2602 9.98e-03 -1.30e-02 -1.10e-02 1.20e-02 3.11e-03 1.14e-02 -7.53e-03  
## 2603 1.84e-02 -1.12e-02 -2.49e-02 -6.64e-03 3.29e-03 4.04e-03 -1.17e-02  
## 2604 -1.04e-02 -2.31e-02 1.66e-03 2.30e-02 2.53e-02 2.63e-02 -3.44e-02  
## 2605 -1.09e-02 -2.04e-02 2.83e-02 2.38e-02 -2.17e-02 -7.90e-03 6.67e-03  
## 2606 2.66e-02 2.78e-02 3.90e-03 -4.76e-02 5.75e-02 -3.10e-02 -4.15e-02  
## 2607 1.94e-02 -1.42e-02 1.41e-02 2.86e-02 -1.84e-02 3.61e-03 -1.84e-02  
## 2608 2.63e-02 -1.07e-02 -1.52e-03 -8.36e-03 -1.28e-02 2.00e-03 -2.52e-02  
## 2609 3.97e-03 1.07e-02 9.42e-03 -3.83e-03 -2.73e-03 -1.24e-03 6.51e-03  
## 2610 5.05e-03 2.91e-02 1.24e-02 -9.29e-04 4.03e-02 5.42e-03 -8.62e-03  
## 2611 -4.90e-03 3.29e-03 1.03e-03 -5.01e-03 -1.26e-03 2.12e-03 5.17e-03  
## 2612 -2.94e-03 -2.04e-02 3.91e-03 1.94e-02 2.45e-02 2.86e-02 7.64e-03  
## 2613 -4.28e-02 2.43e-02 5.43e-03 -5.96e-03 -1.14e-02 3.58e-02 9.53e-03  
## 2614 1.01e-03 1.59e-03 2.02e-04 -1.16e-03 -1.45e-03 -7.47e-04 1.67e-04  
## 2615 -2.32e-02 1.51e-02 -3.24e-02 -1.81e-02 7.27e-03 -1.21e-02 1.27e-02  
## 2616 1.43e-02 7.70e-03 -1.24e-03 4.01e-03 3.21e-03 5.17e-03 -6.02e-03  
## 2617 -8.80e-04 -2.00e-03 1.04e-03 2.23e-03 -3.00e-03 -4.04e-04 4.21e-05  
## 2618 -1.26e-02 9.96e-03 2.84e-02 -3.24e-03 -1.80e-02 -7.15e-03 -1.79e-02  
## 2619 -5.71e-03 -1.59e-02 -2.77e-03 2.56e-02 -3.74e-02 -1.90e-03 -5.56e-03  
## 2620 1.61e-02 9.36e-03 -1.91e-03 -7.50e-03 -1.13e-02 3.57e-03 -2.03e-02  
## 2621 -5.29e-03 7.92e-03 -7.47e-03 8.97e-03 9.07e-04 6.57e-03 1.19e-04  
## 2622 -3.67e-04 -2.62e-03 -2.07e-03 -3.26e-03 3.67e-03 4.16e-03 4.57e-03  
## 2623 5.94e-05 -1.98e-03 -3.00e-04 1.61e-03 1.32e-03 -1.28e-03 -2.61e-03  
## 2624 1.27e-02 -1.33e-02 -6.31e-03 3.76e-03 5.89e-03 1.10e-02 1.30e-02  
## 2625 2.79e-02 -1.45e-02 9.22e-03 -4.83e-03 -4.23e-03 4.36e-03 -1.89e-02  
## 2626 -4.24e-03 2.37e-03 -1.69e-03 -2.75e-03 3.26e-03 -1.67e-03 1.25e-03  
## 2627 -5.63e-03 -7.60e-03 -1.27e-02 1.15e-02 -4.89e-03 -2.72e-03 7.50e-03  
## 2628 -2.35e-03 -2.87e-03 -1.07e-03 2.93e-03 1.10e-03 1.43e-03 -7.45e-05  
## 2629 1.27e-03 -2.55e-03 -2.39e-03 -2.99e-03 3.49e-03 -2.09e-03 5.20e-04  
## 2630 -6.94e-04 -1.35e-02 9.81e-03 2.75e-02 -1.77e-02 -3.28e-03 -1.23e-02  
## 2631 4.40e-04 -5.05e-04 1.39e-04 -6.03e-04 -3.37e-04 -1.18e-03 6.25e-04  
## 2632 1.05e-03 -1.85e-03 4.10e-03 -1.26e-03 1.49e-03 -3.44e-03 -7.73e-06  
## 2633 -8.18e-04 -8.75e-04 1.31e-04 -4.23e-04 -7.90e-04 -5.39e-04 1.81e-03  
## 2634 -8.67e-03 -2.55e-02 1.58e-02 -2.81e-02 -4.62e-03 2.06e-03 -3.29e-02  
## 2635 -5.89e-03 -2.20e-02 1.09e-02 -1.34e-02 -7.44e-03 -5.54e-03 4.38e-02  
## 2636 1.52e-02 1.42e-02 -9.05e-03 8.61e-03 1.94e-03 8.45e-03 1.18e-02  
## 2637 9.49e-03 -7.33e-03 2.24e-02 4.78e-03 -2.20e-04 -2.12e-03 -5.01e-03  
## 2638 1.00e-02 2.12e-02 2.30e-02 2.78e-02 -2.06e-02 -1.60e-02 -2.73e-02  
## 2639 1.15e-02 1.59e-02 1.50e-02 -1.29e-02 -3.85e-04 -9.24e-03 5.75e-03  
## 2640 -1.50e-03 -2.07e-02 1.39e-02 -1.12e-02 -6.12e-03 9.04e-03 -2.61e-02  
## 2641 8.87e-03 -5.61e-03 -8.14e-04 1.63e-03 2.84e-03 -1.01e-02 -1.60e-03  
## 2642 2.52e-04 1.03e-03 -2.50e-04 1.17e-03 4.65e-04 5.98e-05 -8.74e-05  
## 2643 1.34e-02 -7.78e-03 -1.80e-03 2.01e-03 3.60e-03 -1.07e-02 -2.88e-03  
## 2644 5.36e-03 7.30e-03 -4.09e-03 6.24e-03 1.98e-03 6.53e-03 -1.52e-02  
## 2645 -5.06e-05 9.94e-04 5.17e-04 1.21e-03 -1.66e-03 -1.66e-03 1.13e-03  
## 2646 8.61e-03 -1.50e-02 -1.24e-02 1.02e-02 2.85e-03 3.00e-03 -8.84e-03  
## 2647 9.90e-03 -1.36e-02 1.16e-02 -9.39e-03 -2.04e-03 -9.71e-03 -1.49e-02  
## 2648 -1.03e-02 1.25e-02 -4.80e-03 3.58e-03 4.92e-03 -4.67e-03 -6.84e-03  
## 2649 1.64e-03 4.95e-03 -8.82e-04 -8.65e-05 4.76e-03 -7.82e-04 -1.97e-03  
## 2650 2.55e-04 -9.42e-03 9.11e-03 1.85e-02 -1.17e-02 -2.83e-03 -7.70e-03  
## 2651 2.19e-03 1.26e-02 3.40e-03 -1.93e-02 2.79e-02 -7.66e-03 7.56e-03  
## 2652 -3.91e-03 -4.49e-03 -7.38e-04 3.29e-03 1.63e-03 3.62e-03 -3.16e-04  
## 2653 9.41e-03 -1.04e-02 -6.21e-03 8.04e-03 2.40e-03 6.51e-03 -2.12e-02  
## 2654 9.96e-05 -1.45e-03 4.48e-04 -1.17e-03 -1.02e-03 -2.75e-03 3.10e-04  
## 2655 -2.57e-04 1.08e-03 1.64e-04 -1.38e-03 -4.66e-04 5.60e-05 1.55e-03  
## 2656 2.26e-03 8.68e-03 9.60e-04 1.40e-02 -1.92e-02 -2.19e-03 -2.54e-03  
## 2657 7.71e-04 8.11e-04 2.54e-04 -9.15e-04 -3.93e-04 -1.32e-03 -1.67e-03  
## 2658 -7.34e-03 -1.43e-02 9.28e-03 -5.38e-03 -4.08e-03 1.18e-02 -1.39e-02  
## 2659 6.82e-03 -6.36e-03 -7.20e-03 -7.11e-03 8.03e-03 -5.82e-03 -1.22e-03  
## 2660 -1.55e-03 5.38e-03 -3.08e-03 -5.67e-06 -6.68e-03 -1.60e-03 8.57e-04  
## 2661 1.55e-03 1.11e-02 2.22e-02 -1.38e-02 8.92e-03 2.16e-04 1.20e-02  
## 2662 -7.24e-04 -1.77e-03 -4.36e-04 -4.51e-03 4.04e-03 -7.26e-04 8.95e-05  
## 2663 4.84e-04 1.62e-03 7.57e-04 -2.44e-03 -4.54e-04 2.44e-03 -4.86e-04  
## 2664 -3.03e-02 -2.49e-02 -9.17e-03 -3.61e-02 5.36e-02 3.66e-02 6.87e-03  
## 2665 -1.36e-02 1.35e-02 1.30e-02 -1.00e-02 -2.86e-03 -9.77e-03 9.09e-03  
## 2666 -2.20e-03 -6.94e-03 -2.16e-03 -1.53e-03 -8.34e-03 -3.37e-04 1.10e-03  
## 2667 -2.57e-03 6.06e-03 -5.20e-03 7.92e-03 3.13e-04 3.60e-03 -5.17e-04  
## 2668 8.51e-04 1.72e-03 -2.31e-04 1.11e-03 1.02e-03 -7.41e-04 7.36e-05  
## 2669 -1.03e-02 -1.53e-02 1.22e-02 -1.08e-02 -2.29e-03 -3.23e-03 7.86e-03  
## 2670 7.55e-03 -7.81e-03 2.07e-02 4.37e-03 -2.48e-04 -9.53e-03 -2.74e-03  
## 2671 3.68e-04 -6.69e-04 -1.27e-04 3.43e-04 5.49e-04 -3.95e-04 -2.97e-04  
## 2672 4.05e-04 -2.54e-03 -3.09e-04 1.54e-03 1.44e-03 7.71e-04 1.91e-04  
## 2673 1.47e-02 1.34e-02 9.66e-03 -4.96e-03 -2.82e-03 4.07e-03 -1.60e-02  
## 2674 -9.71e-05 1.99e-03 -2.67e-04 1.31e-03 1.29e-03 8.20e-04 8.41e-05  
## 2675 1.02e-02 -1.18e-02 1.24e-02 2.33e-02 -1.46e-02 5.76e-03 4.95e-03  
## 2676 -6.09e-03 -6.77e-03 -1.04e-03 -5.93e-04 6.76e-03 8.15e-04 -1.19e-03  
## 2677 -5.98e-04 4.13e-04 -1.53e-04 -6.21e-04 6.78e-04 4.08e-05 8.63e-04  
## 2678 2.05e-02 -1.75e-02 8.24e-03 -6.29e-03 -6.98e-03 1.25e-02 3.67e-02  
## 2679 4.88e-03 1.30e-02 1.00e-02 -6.09e-03 -3.44e-03 -2.94e-03 6.32e-03  
## 2680 -1.70e-03 4.66e-03 -3.74e-03 6.45e-03 4.24e-04 -3.44e-03 4.45e-04  
## 2681 1.71e-05 1.71e-05 1.49e-05 1.52e-05 -2.38e-05 2.63e-05 -8.24e-06  
## 2682 1.18e-02 -1.24e-02 -2.58e-02 -1.20e-02 5.43e-03 -3.46e-03 7.38e-03  
## 2683 -7.79e-03 1.14e-02 -6.92e-03 8.24e-03 1.65e-03 1.24e-02 1.45e-02  
## 2684 1.67e-03 -1.34e-02 1.38e-02 2.53e-02 -1.65e-02 4.27e-03 7.29e-03  
## 2685 6.59e-04 -2.16e-03 4.66e-03 -1.38e-03 1.67e-03 -3.97e-03 4.17e-04  
## 2686 6.39e-03 -1.14e-02 -2.77e-02 6.36e-03 2.06e-02 1.93e-03 -1.18e-02  
## 2687 2.52e-03 -1.01e-02 -2.50e-03 4.45e-03 5.15e-03 -8.67e-03 -4.87e-03  
## 2688 1.36e-03 -8.40e-03 -3.11e-03 4.72e-03 2.94e-03 3.44e-03 -2.91e-03  
## 2689 2.23e-03 -3.61e-03 6.92e-04 -4.57e-03 -2.34e-03 -1.04e-02 -1.54e-03  
## 2690 7.16e-03 4.10e-03 2.56e-04 -3.84e-03 -4.11e-03 -5.96e-03 -8.02e-04  
## 2691 2.35e-03 1.32e-03 -7.72e-04 -1.63e-03 1.72e-03 6.82e-05 -2.23e-03  
## 2692 4.03e-03 2.16e-03 3.67e-04 -2.34e-03 -1.04e-03 -4.34e-03 -4.30e-03  
## 2693 -7.18e-03 4.97e-03 2.15e-03 5.00e-03 -7.79e-03 3.43e-03 8.02e-03  
## 2694 5.66e-03 5.73e-03 -8.36e-04 1.46e-03 3.21e-03 -7.91e-03 -1.72e-03  
## 2695 3.34e-03 -1.52e-02 3.29e-02 1.69e-02 -5.96e-03 1.18e-02 -7.28e-03  
## 2696 -1.80e-02 -1.01e-02 -5.50e-03 6.32e-03 2.41e-03 9.46e-03 1.57e-02  
## 2697 -1.26e-03 1.70e-03 4.29e-05 3.32e-04 1.61e-03 -4.28e-03 -3.97e-04  
## 2698 -1.23e-02 1.01e-02 -3.18e-03 2.77e-03 4.52e-03 -1.08e-02 -4.33e-03  
## 2699 3.97e-03 1.75e-02 8.62e-03 -5.16e-03 -5.14e-03 1.50e-02 3.47e-02  
## 2700 -1.55e-03 -2.96e-03 -5.04e-04 -5.28e-04 -3.27e-03 1.80e-03 1.97e-04  
## 2701 -2.15e-04 1.99e-03 1.13e-03 2.19e-03 -3.28e-03 -4.10e-03 2.13e-03  
## 2702 1.69e-02 -1.42e-02 1.27e-02 2.97e-02 -1.92e-02 1.48e-03 -1.71e-02  
## 2703 -1.28e-02 -1.25e-02 6.86e-03 -4.48e-03 -2.86e-03 -1.39e-02 -6.56e-03  
## 2704 -6.56e-03 9.00e-03 -2.03e-02 -8.91e-03 3.37e-03 -6.14e-03 7.78e-03  
## 2705 1.03e-02 1.21e-02 2.33e-02 -1.54e-02 9.03e-03 1.16e-02 1.30e-02  
## 2706 2.12e-03 -2.45e-03 -9.02e-04 -4.51e-03 4.11e-03 -1.86e-03 2.26e-04  
## 2707 8.42e-03 1.71e-02 8.31e-03 8.27e-03 2.19e-02 1.07e-02 -2.42e-02  
## 2708 -1.36e-02 9.44e-03 -3.93e-03 3.32e-03 4.32e-03 -8.35e-03 1.54e-02  
## 2709 1.16e-02 7.69e-03 -1.84e-03 1.81e-03 3.82e-03 -1.14e-02 -2.91e-03  
## 2710 -7.54e-03 -6.70e-03 -4.11e-03 8.04e-03 1.17e-03 -5.57e-03 1.23e-03  
## 2711 1.03e-02 5.30e-03 -2.80e-03 4.49e-03 1.73e-03 6.39e-03 -9.29e-03  
## 2712 -9.78e-03 -1.01e-02 -5.61e-03 -1.78e-02 1.30e-02 5.31e-04 -1.70e-03  
## 2713 -6.85e-03 5.46e-03 -9.66e-05 -9.98e-04 5.94e-03 4.31e-03 6.97e-03  
## 2714 5.28e-04 -1.47e-03 4.14e-04 -1.61e-03 -7.50e-04 -1.64e-03 -2.65e-03  
## 2715 3.69e-04 -8.14e-04 2.49e-03 9.27e-05 -1.25e-03 -1.08e-04 -5.95e-05  
## 2716 2.26e-02 -1.90e-02 1.01e-02 -1.02e-02 -6.58e-03 4.70e-03 3.68e-02  
## 2717 1.27e-02 -1.12e-02 -2.39e-02 -8.34e-03 4.17e-03 -2.52e-03 -1.04e-02  
## 2718 8.04e-05 -2.28e-04 -5.73e-05 1.47e-04 1.78e-04 8.80e-05 -7.12e-05  
## 2719 4.46e-03 3.95e-03 -9.59e-04 2.13e-03 1.92e-03 6.25e-05 -7.07e-04  
## 2720 -1.31e-03 -1.97e-03 9.45e-05 3.70e-04 1.98e-03 -4.95e-03 -5.60e-04  
## 2721 -2.07e-02 -1.32e-02 -5.73e-03 3.28e-03 4.11e-03 -2.13e-02 1.93e-02  
## 2722 -2.77e-04 3.90e-04 2.04e-04 7.26e-04 -7.54e-04 -2.34e-04 1.31e-04  
## 2723 -3.18e-03 -9.34e-03 7.86e-03 -4.43e-03 -1.48e-03 -1.25e-03 6.91e-03  
## 2724 4.54e-03 -8.50e-03 -3.73e-03 6.38e-03 4.18e-03 -2.31e-04 1.19e-02  
## 2725 3.00e-03 8.69e-03 8.06e-03 -3.72e-03 -1.20e-03 -1.42e-03 5.47e-03  
## 2726 -1.82e-04 1.02e-02 -7.39e-03 1.07e-02 1.71e-03 -3.85e-03 -1.09e-03  
## 2727 5.30e-03 -5.64e-03 -4.90e-03 7.71e-03 2.64e-04 2.07e-03 -1.82e-03  
## 2728 7.97e-03 -4.88e-03 1.51e-03 6.92e-03 -9.83e-03 -7.06e-03 -9.56e-04  
## 2729 4.24e-03 -1.55e-02 -9.55e-03 -3.20e-02 2.17e-02 -1.07e-02 -8.60e-03  
## 2730 4.54e-03 5.07e-03 -9.72e-04 1.92e-03 2.75e-03 -2.64e-03 -1.24e-03  
## 2731 -2.06e-02 1.19e-02 2.40e-02 1.72e-02 -6.55e-03 6.95e-03 -2.16e-03  
## 2732 -1.07e-02 -1.10e-02 1.74e-02 -9.52e-03 5.46e-03 6.61e-03 -1.05e-03  
## 2733 -3.03e-03 5.96e-03 -4.77e-03 8.43e-03 3.09e-04 -3.07e-03 -1.89e-04  
## 2734 5.26e-04 -1.67e-03 1.36e-04 -3.87e-04 -1.61e-03 -1.11e-03 4.17e-06  
## 2735 -6.15e-03 -6.35e-03 -5.61e-03 -7.01e-03 7.20e-03 -5.28e-03 1.83e-03  
## 2736 2.23e-02 2.22e-02 5.90e-03 -5.10e-03 -8.15e-03 1.60e-02 7.50e-03  
## 2737 4.11e-03 -8.73e-03 -1.83e-02 -6.07e-03 2.72e-03 -3.75e-03 -6.11e-03  
## 2738 4.74e-04 -5.53e-03 7.48e-04 -6.95e-03 -2.90e-03 -2.34e-03 7.64e-03  
## 2739 -5.46e-05 5.51e-04 -3.68e-04 -5.81e-04 7.53e-04 -4.85e-04 9.52e-04  
## 2740 -4.59e-03 -8.69e-03 -5.98e-03 -1.25e-02 1.21e-02 -6.80e-03 1.32e-02  
## 2741 3.56e-03 -7.54e-03 -1.32e-02 1.26e-02 -5.57e-03 1.91e-03 4.97e-03  
## 2742 -6.05e-05 -3.03e-04 6.55e-05 -1.76e-04 -2.25e-04 -1.45e-04 1.16e-04  
## 2743 1.04e-02 6.84e-03 -1.75e-03 2.16e-03 3.36e-03 -6.95e-03 -2.70e-03  
## 2744 3.09e-03 -1.44e-02 9.36e-03 -5.12e-03 -4.38e-03 1.37e-02 -1.68e-02  
## 2745 3.23e-03 7.92e-03 -2.16e-03 -2.90e-03 -9.80e-03 -5.17e-03 -1.48e-02  
## 2746 4.56e-03 5.97e-03 -6.25e-04 1.66e-03 3.76e-03 -1.23e-02 -1.20e-03  
## 2747 -1.25e-02 -1.32e-02 -4.71e-03 -9.68e-03 -1.47e-02 -4.80e-03 1.97e-02  
## 2748 1.29e-03 -2.73e-02 2.62e-03 1.76e-02 3.11e-02 -9.35e-03 -4.89e-02  
## 2749 3.84e-03 8.30e-03 6.63e-03 -3.45e-03 -1.97e-03 -6.68e-03 5.81e-03  
## 2750 -1.03e-03 8.77e-03 -1.97e-03 2.36e-03 3.92e-03 -5.04e-03 1.26e-02  
## 2751 2.11e-03 1.95e-03 -1.16e-03 -3.17e-03 3.03e-03 4.38e-03 -1.35e-04  
## 2752 -2.91e-02 2.61e-02 3.68e-03 -6.32e-03 -1.31e-02 3.48e-02 5.98e-03  
## 2753 -1.83e-03 -1.77e-03 -8.19e-04 2.30e-04 -2.25e-03 -8.60e-05 6.98e-04  
## 2754 5.24e-03 5.56e-03 -9.11e-04 1.65e-03 3.07e-03 -6.08e-03 -1.50e-03  
## 2755 7.96e-03 5.36e-03 -7.94e-04 1.54e-03 2.72e-03 -1.05e-02 -1.59e-03  
## 2756 3.12e-03 3.73e-03 -8.27e-04 2.28e-03 2.04e-03 -1.64e-03 -1.35e-04  
## 2757 1.22e-02 1.62e-02 -3.47e-02 -1.08e-02 5.05e-03 1.47e-02 -1.94e-02  
## 2758 -1.15e-02 1.08e-02 -3.15e-03 7.98e-03 4.67e-03 -6.94e-03 1.42e-02  
## 2759 -3.37e-03 2.69e-03 -1.48e-03 -3.22e-04 -3.78e-03 3.90e-03 5.33e-03  
## 2760 5.91e-03 2.81e-03 -4.53e-05 -1.59e-03 -3.02e-03 2.16e-03 -5.89e-03  
## 2761 -2.81e-02 1.64e-02 -1.26e-02 7.70e-03 3.56e-03 2.25e-03 2.14e-02  
## 2762 4.84e-03 -3.58e-03 -3.38e-03 -3.96e-03 4.48e-03 -2.49e-03 -3.48e-04  
## 2763 1.47e-03 -9.45e-03 -2.84e-03 1.92e-02 -2.30e-02 5.46e-03 -1.29e-03  
## 2764 1.33e-03 -3.89e-03 -1.81e-04 1.55e-03 2.39e-03 -4.50e-03 -1.11e-04  
## 2765 -4.50e-02 2.72e-02 5.77e-03 -1.35e-02 -1.28e-02 2.05e-02 6.09e-03  
## 2766 -4.23e-03 -1.18e-02 7.92e-03 7.71e-03 1.59e-02 -4.24e-03 8.04e-03  
## 2767 1.89e-02 -1.02e-02 -1.41e-03 -7.83e-03 -1.19e-02 2.64e-03 -7.38e-03  
## 2768 -1.19e-03 4.48e-03 -5.12e-04 1.98e-05 4.15e-03 -7.50e-04 5.69e-03  
## 2769 -1.15e-02 8.73e-03 -7.81e-03 -1.76e-02 1.30e-02 -5.30e-04 1.49e-02  
## 2770 -6.97e-03 8.34e-03 -1.21e-03 2.23e-03 3.87e-03 -9.82e-04 -3.20e-03  
## 2771 6.84e-03 -2.84e-02 -6.71e-02 3.19e-02 -2.59e-02 -1.67e-02 4.52e-02  
## 2772 9.71e-03 -1.54e-02 -2.79e-02 2.39e-02 -1.13e-02 3.34e-03 -1.59e-02  
## 2773 5.37e-03 4.96e-03 -9.25e-04 1.87e-03 2.61e-03 -3.97e-03 -1.26e-03  
## 2774 -2.46e-02 -1.51e-02 -9.48e-03 7.10e-03 5.76e-03 -3.83e-03 2.04e-02  
## 2775 7.45e-03 -1.07e-02 9.10e-03 -5.24e-03 -2.33e-03 -2.52e-03 5.91e-03  
## 2776 -3.42e-02 2.80e-02 -3.82e-04 -1.83e-02 -1.75e-02 -1.69e-02 1.39e-02  
## 2777 5.49e-03 1.44e-02 3.41e-02 8.37e-03 -3.11e-03 -9.10e-03 1.48e-02  
## 2778 5.75e-03 3.74e-03 2.27e-04 -1.08e-03 -3.54e-03 -3.60e-03 -6.29e-03  
## 2779 8.94e-03 -1.08e-02 -1.34e-02 -1.63e-02 1.33e-02 4.37e-03 -3.73e-03  
## 2780 -2.49e-02 1.27e-02 1.35e-03 -2.11e-02 3.17e-02 -1.07e-02 -7.99e-03  
## 2781 -2.11e-03 -1.12e-02 -5.03e-03 9.41e-03 5.22e-03 -5.60e-03 -4.28e-03  
## 2782 -2.84e-03 3.18e-03 9.37e-04 5.84e-03 -6.56e-03 6.36e-04 -6.55e-05  
## 2783 1.05e-03 -1.86e-03 1.41e-04 6.31e-05 1.78e-03 -5.37e-03 2.02e-03  
## 2784 -3.47e-03 2.64e-03 -1.02e-03 6.83e-03 -6.48e-03 8.80e-04 1.01e-03  
## 2785 3.37e-03 -1.78e-02 -1.58e-02 1.37e-02 1.88e-03 7.99e-03 -1.06e-02  
## 2786 1.27e-03 2.38e-02 1.26e-02 -2.88e-02 -9.73e-03 2.23e-02 -3.14e-04  
## 2787 3.54e-06 1.14e-03 -3.30e-04 1.40e-03 5.19e-04 -2.09e-04 -1.01e-04  
## 2788 -2.81e-03 -8.85e-03 -3.09e-03 3.85e-03 3.39e-03 -1.48e-04 -3.49e-03  
## 2789 -7.20e-03 1.98e-02 -1.38e-02 7.66e-03 5.17e-03 5.39e-05 -9.18e-03  
## 2790 9.02e-04 -5.32e-03 -1.79e-03 3.46e-03 2.25e-03 4.56e-03 -1.38e-03  
## 2791 1.24e-02 1.08e-02 -2.19e-02 -8.19e-03 4.07e-03 1.60e-03 5.51e-03  
## 2792 1.54e-03 -9.44e-03 -1.11e-02 -1.17e-02 1.09e-02 1.64e-03 -4.93e-04  
## 2793 -4.98e-03 -8.06e-03 7.01e-03 -3.79e-03 -1.26e-03 -5.87e-03 7.24e-03  
## 2794 -2.56e-03 -1.15e-02 9.05e-03 -6.05e-03 -2.03e-03 -8.53e-03 -8.40e-03  
## 2795 -7.43e-04 -1.45e-03 -3.54e-04 -3.23e-03 3.04e-03 -3.30e-03 -2.45e-04  
## 2796 5.60e-03 -4.09e-03 6.94e-05 -3.06e-03 -3.95e-03 2.52e-05 -3.48e-04  
## 2797 1.40e-03 -6.20e-03 -3.26e-03 -9.26e-05 -8.49e-03 -4.55e-03 8.39e-04  
## 2798 -1.28e-02 -1.48e-02 -2.72e-02 1.87e-02 -8.55e-03 -7.42e-03 1.05e-02  
## 2799 3.23e-04 -7.28e-04 -1.21e-04 6.71e-04 4.74e-04 2.17e-04 1.55e-04  
## 2800 4.75e-02 -2.18e-02 1.40e-02 4.51e-02 -3.43e-02 5.89e-02 -4.13e-02  
## 2801 2.26e-03 4.61e-03 1.20e-03 6.31e-03 -8.07e-03 -1.99e-03 -1.80e-03  
## 2802 1.96e-03 2.51e-03 -1.66e-03 -2.80e-03 3.70e-03 -1.00e-03 -4.07e-03  
## 2803 1.13e-03 3.11e-03 1.50e-03 4.82e-03 -6.25e-03 -5.23e-03 -1.27e-04  
## 2804 5.65e-03 1.99e-02 -6.77e-03 -1.68e-02 -2.16e-02 1.37e-02 1.92e-02  
## 2805 -1.15e-02 8.63e-03 2.12e-02 9.98e-03 -2.47e-03 1.06e-02 1.40e-02  
## 2806 1.93e-03 -7.48e-03 1.69e-02 2.70e-03 -1.43e-02 -5.69e-03 -5.84e-04  
## 2807 1.07e-04 5.63e-04 -1.09e-04 2.71e-04 4.20e-04 -1.50e-04 -2.02e-04  
## 2808 7.79e-03 -2.55e-02 2.62e-02 2.92e-02 -3.09e-02 1.11e-02 -6.95e-04  
## 2809 9.41e-04 -1.07e-03 3.12e-04 -1.35e-03 -7.06e-04 -2.99e-03 1.33e-03  
## 2810 8.44e-04 2.23e-03 -1.24e-04 3.18e-04 2.02e-03 -1.57e-03 -4.76e-03  
## 2811 -4.14e-03 -1.36e-02 6.93e-03 -4.38e-03 -4.07e-03 -1.31e-02 -9.68e-03  
## 2812 -5.48e-04 -2.32e-03 -2.27e-03 -2.04e-03 2.97e-03 -4.12e-03 5.29e-04  
## 2813 3.03e-05 3.53e-04 1.09e-04 5.60e-04 -6.24e-04 8.57e-06 -1.40e-04  
## 2814 -2.18e-03 -1.95e-02 8.10e-03 9.66e-03 2.41e-02 -1.28e-02 -2.37e-02  
## 2815 4.58e-03 -8.25e-03 -2.05e-03 2.82e-03 4.28e-03 -3.08e-03 -4.15e-03  
## 2816 4.79e-04 7.61e-04 -2.69e-04 7.92e-04 3.78e-04 1.16e-03 -1.12e-03  
## 2817 9.38e-03 -9.69e-03 -1.74e-02 1.68e-02 -6.95e-03 6.67e-03 5.44e-03  
## 2818 -8.28e-02 2.87e-02 3.75e-03 1.03e-02 3.65e-02 -2.36e-02 6.02e-02  
## 2819 4.75e-04 1.12e-03 -4.25e-04 -1.70e-03 1.84e-03 -4.55e-04 2.68e-04  
## 2820 1.66e-03 -2.00e-03 7.90e-04 2.80e-03 -3.66e-03 -4.91e-03 -8.62e-04  
## 2821 1.52e-02 8.43e-03 -3.61e-03 4.10e-03 3.38e-03 -4.43e-03 -1.57e-02  
## 2822 -1.22e-02 -8.55e-03 -3.62e-03 -1.59e-02 1.26e-02 -1.04e-02 -5.25e-04  
## 2823 -1.09e-03 1.21e-02 -5.17e-03 2.89e-03 5.18e-03 -7.96e-03 -7.18e-03  
## 2824 -2.04e-03 3.41e-03 4.10e-04 9.44e-04 2.81e-03 -9.87e-03 4.81e-04  
## 2825 2.16e-02 -1.22e-02 -2.72e-02 -8.53e-03 3.94e-03 1.71e-03 -1.37e-02  
## 2826 3.98e-03 -2.67e-03 5.54e-04 -3.22e-03 -1.63e-03 -2.30e-03 -7.66e-04  
## 2827 -8.03e-03 9.05e-03 -1.67e-02 1.46e-02 -6.80e-03 -3.80e-03 7.21e-03  
## 2828 6.44e-04 4.34e-03 -2.26e-03 -6.69e-03 6.60e-03 -5.86e-04 -7.20e-03  
## 2829 8.91e-04 2.54e-03 8.18e-04 -3.30e-03 -1.22e-03 -1.55e-03 -5.87e-04  
## 2830 1.32e-04 4.65e-04 2.61e-05 -2.51e-04 -4.54e-04 6.22e-04 9.80e-05  
## 2831 6.33e-05 -1.27e-04 3.29e-04 1.94e-04 -2.31e-05 1.57e-04 -2.15e-04  
## 2832 -7.22e-03 1.10e-02 -1.08e-02 1.24e-02 1.15e-03 6.93e-03 -3.69e-03  
## 2833 -2.99e-02 2.62e-02 3.58e-03 -6.34e-03 -1.32e-02 3.53e-02 6.49e-03  
## 2834 -2.53e-05 -3.89e-05 -1.66e-06 3.01e-05 2.64e-05 2.58e-05 1.20e-05  
## 2835 -5.32e-04 1.52e-03 -2.78e-04 6.39e-04 1.24e-03 1.58e-04 -5.56e-04  
## 2836 2.62e-03 -8.36e-03 -1.48e-03 -6.26e-03 -9.78e-03 8.13e-03 1.14e-02  
## 2837 -2.39e-02 1.10e-02 -5.85e-03 3.25e-03 4.31e-03 -2.01e-02 1.94e-02  
## 2838 8.89e-03 -9.98e-03 -2.44e-03 3.22e-03 3.74e-03 -2.33e-03 1.12e-02  
## 2839 5.61e-04 1.83e-03 -2.55e-04 5.82e-04 1.40e-03 -2.36e-03 -7.69e-04  
## 2840 -9.50e-03 7.00e-03 -1.48e-02 1.29e-02 -6.07e-03 -3.21e-03 7.37e-03  
## 2841 2.08e-02 -1.52e-02 -1.02e-02 7.58e-03 3.10e-03 1.74e-02 1.18e-02  
## 2842 1.36e-02 -1.31e-02 -8.44e-03 -2.86e-02 1.94e-02 -4.68e-03 -7.38e-03  
## 2843 -6.28e-03 -1.31e-02 -1.48e-02 -2.28e-02 1.70e-02 -1.53e-03 -3.11e-03  
## 2844 1.63e-03 5.23e-03 -2.04e-04 -3.25e-03 -5.50e-03 -3.59e-03 -7.57e-04  
## 2845 5.75e-03 -5.51e-03 -9.82e-04 2.07e-03 2.62e-03 -2.25e-03 -1.12e-03  
## 2846 -3.09e-03 1.07e-02 2.02e-02 -1.06e-02 5.61e-03 3.38e-03 -2.92e-03  
## 2847 -2.60e-03 1.70e-03 2.98e-05 -1.02e-05 1.78e-03 3.31e-04 2.64e-03  
## 2848 -4.52e-03 -3.56e-03 1.38e-03 3.73e-03 -5.17e-03 9.32e-04 2.45e-05  
## 2849 -1.25e-02 -8.38e-03 -7.06e-03 1.01e-02 5.06e-04 6.60e-04 1.19e-03  
## 2850 1.44e-02 9.80e-03 -1.22e-03 -5.59e-03 -9.61e-03 -9.78e-03 -1.90e-02  
## 2851 4.94e-04 -1.03e-03 -2.11e-04 5.29e-04 8.41e-04 -5.15e-04 -4.00e-04  
## 2852 -4.37e-03 1.42e-02 -7.65e-03 4.58e-03 4.70e-03 -1.60e-02 -3.04e-02  
## 2853 2.24e-04 7.89e-04 -1.11e-04 2.66e-04 7.68e-04 2.56e-04 -1.25e-04  
## 2854 1.36e-02 -7.11e-03 -3.68e-03 -1.46e-02 1.07e-02 -7.07e-03 -1.94e-03  
## 2855 -2.09e-03 -1.62e-03 -3.73e-03 1.13e-03 -1.47e-03 1.09e-03 2.74e-03  
## 2856 -7.21e-03 1.03e-02 2.06e-02 1.93e-02 -7.64e-03 2.17e-03 -2.54e-03  
## 2857 7.49e-03 1.02e-02 8.12e-03 -3.57e-03 -1.79e-03 -2.51e-03 -1.11e-02  
## 2858 1.73e-02 -1.39e-02 1.34e-02 2.84e-02 -1.81e-02 4.03e-03 -1.68e-02  
## 2859 -1.51e-02 1.03e-02 -3.31e-03 2.65e-03 4.75e-03 -8.82e-03 -4.20e-03  
## 2860 1.89e-02 1.17e-02 -2.71e-03 3.43e-03 4.96e-03 -3.78e-03 -9.09e-03  
## 2861 -9.40e-05 -1.48e-03 -6.00e-04 2.93e-04 -1.79e-03 -2.24e-03 3.59e-04  
## 2862 -1.04e-03 -1.74e-02 -1.47e-02 8.85e-03 3.39e-03 9.64e-03 1.73e-02  
## 2863 1.34e-03 -2.38e-03 -2.79e-04 1.44e-03 1.39e-03 -1.23e-03 1.44e-04  
## 2864 -9.71e-03 1.55e-02 -1.27e-02 1.04e-02 3.76e-03 1.29e-02 1.78e-02  
## 2865 1.57e-03 9.47e-03 7.62e-03 -4.28e-03 -1.90e-03 -7.27e-03 -8.71e-03  
## 2866 -1.09e-02 6.04e-03 -4.98e-03 -7.51e-03 8.44e-03 -5.47e-03 2.19e-03  
## 2867 6.41e-03 -1.16e-02 1.29e-02 2.12e-02 -1.44e-02 -4.60e-06 4.91e-03  
## 2868 4.02e-05 -1.14e-04 9.34e-06 -4.36e-05 -9.38e-05 2.11e-06 -1.44e-04  
## 2869 4.27e-05 -1.33e-02 1.24e-02 -1.02e-02 -1.13e-03 -2.70e-03 7.30e-03  
## 2870 5.10e-04 2.46e-03 9.61e-04 3.11e-03 -4.17e-03 -5.14e-03 -1.07e-03  
## 2871 8.09e-03 -1.32e-02 1.57e-02 2.29e-02 -1.50e-02 -1.95e-03 5.13e-03  
## 2872 4.04e-03 4.26e-03 -7.77e-04 2.19e-03 2.40e-03 -4.25e-03 -4.82e-04  
## 2873 -7.93e-03 2.30e-02 1.80e-02 5.62e-04 3.30e-02 -8.91e-03 3.79e-03  
## 2874 -8.36e-04 1.68e-02 -1.75e-02 -2.84e-02 2.03e-02 2.65e-03 1.91e-02  
## 2875 -7.09e-03 -2.07e-02 -3.47e-02 1.56e-02 -1.00e-02 -5.33e-03 9.39e-03  
## 2876 -1.24e-02 1.87e-02 -1.46e-02 9.36e-03 2.60e-03 -1.44e-03 1.97e-02  
## 2877 4.07e-03 -4.78e-03 -1.91e-03 -8.63e-03 7.51e-03 1.01e-03 -1.28e-03  
## 2878 1.00e-02 -1.52e-02 -7.19e-03 6.98e-03 4.37e-03 2.05e-03 -1.06e-02  
## 2879 7.30e-04 -1.49e-03 8.19e-05 1.35e-04 1.40e-03 -3.86e-03 1.68e-03  
## 2880 -5.06e-03 2.79e-03 -8.11e-03 -1.34e-03 4.75e-03 2.95e-03 4.52e-03  
## 2881 -2.82e-04 2.98e-03 6.77e-03 4.96e-03 -7.88e-04 -4.58e-03 1.51e-04  
## 2882 6.75e-03 -5.28e-03 -3.52e-03 6.65e-03 1.00e-04 3.60e-03 6.89e-03  
## 2883 1.52e-02 -1.76e-02 7.38e-03 -4.42e-03 -6.97e-03 1.58e-02 8.61e-03  
## 2884 1.49e-02 1.22e-02 -3.12e-02 -2.02e-02 3.37e-02 3.23e-03 -1.33e-02  
## 2885 -8.09e-04 1.85e-03 -4.95e-04 -3.79e-04 -2.05e-03 3.16e-03 3.57e-03  
## 2886 4.09e-02 2.36e-02 -5.11e-02 4.40e-04 4.21e-02 -1.22e-02 -3.67e-02  
## 2887 6.55e-03 1.08e-02 8.28e-03 -3.73e-03 -1.99e-03 -1.90e-03 -1.06e-02  
## 2888 5.77e-03 5.97e-03 -8.84e-04 1.44e-03 3.34e-03 -8.60e-03 -1.67e-03  
## 2889 -1.10e-02 -2.50e-02 1.03e-02 -1.50e-02 -1.06e-02 -9.02e-03 4.96e-02  
## 2890 -1.44e-02 3.16e-02 5.23e-03 -2.99e-02 -1.22e-02 -2.98e-02 2.53e-03  
## 2891 3.96e-03 -2.52e-03 -1.35e-03 -4.27e-03 4.13e-03 4.05e-04 6.07e-05  
## 2892 4.16e-03 5.06e-03 -7.93e-04 2.15e-03 2.99e-03 -6.70e-03 -6.75e-04  
## 2893 -1.38e-04 8.36e-04 -1.69e-04 7.67e-04 5.28e-04 -1.77e-05 -1.00e-03  
## 2894 1.18e-02 -8.89e-03 -1.06e-03 4.11e-03 6.63e-03 -1.08e-02 1.13e-02  
## 2895 2.14e-03 -3.73e-03 8.18e-04 -4.82e-03 -2.11e-03 -4.46e-03 -7.25e-03  
## 2896 1.09e-02 1.23e-02 -2.94e-02 8.26e-03 2.18e-02 7.27e-03 -1.33e-02  
## 2897 -2.58e-03 -2.21e-03 -9.95e-04 3.27e-04 -2.51e-03 -1.95e-03 1.10e-03  
## 2898 -1.11e-02 -1.71e-02 4.08e-02 1.23e-02 -4.51e-03 1.04e-04 1.81e-02  
## 2899 -3.87e-03 7.81e-03 -1.03e-03 -8.10e-03 -9.02e-03 -4.27e-03 1.32e-02  
## 2900 4.75e-02 -1.64e-02 1.26e-02 -1.08e-02 -4.05e-03 -1.46e-02 -2.74e-02  
## 2901 -1.29e-02 -1.04e-02 -6.15e-03 -1.87e-02 1.44e-02 -2.14e-03 1.52e-02  
## 2902 5.07e-03 -1.02e-02 2.35e-04 -9.89e-03 -1.10e-02 -4.47e-03 -4.05e-03  
## 2903 6.05e-03 -1.29e-02 1.36e-02 2.36e-02 -1.62e-02 -7.85e-03 -1.30e-02  
## 2904 -1.09e-02 -1.39e-02 1.37e-02 2.22e-02 -1.63e-02 -6.19e-03 8.58e-03  
## 2905 -1.35e-03 -1.52e-03 -2.43e-04 1.16e-03 6.73e-04 1.24e-03 8.82e-05  
## 2906 2.57e-03 -2.47e-03 -2.53e-05 -1.16e-03 -2.26e-03 -2.21e-03 -3.33e-03  
## 2907 1.04e-02 1.53e-02 9.35e-03 -6.03e-03 -3.71e-03 4.88e-03 -1.59e-02  
## 2908 8.23e-03 1.72e-02 2.80e-02 -2.14e-02 9.83e-03 5.33e-03 -1.22e-02  
## 2909 1.72e-05 3.35e-04 -6.28e-05 3.46e-04 1.87e-04 1.05e-04 5.41e-04  
## 2910 -2.57e-03 9.49e-03 -4.24e-03 7.67e-03 3.54e-03 -1.15e-03 -3.31e-03  
## 2911 -2.60e-03 2.16e-03 2.67e-04 -1.84e-04 2.38e-03 -1.15e-03 -4.08e-03  
## 2912 1.58e-03 5.68e-03 -3.06e-03 5.22e-03 1.26e-03 1.16e-02 8.67e-03  
## 2913 -8.68e-04 -2.20e-03 8.02e-05 1.92e-04 1.98e-03 -4.93e-03 -8.83e-04  
## 2914 8.37e-03 1.54e-02 3.11e-02 -2.70e-02 1.24e-02 -1.37e-02 1.44e-02  
## 2915 -9.90e-03 5.78e-03 -4.23e-03 -8.28e-03 9.32e-03 -6.64e-04 1.11e-02  
## 2916 -2.32e-03 5.70e-03 1.70e-03 5.93e-03 -8.67e-03 -2.13e-03 -8.10e-04  
## 2917 9.01e-04 -9.11e-03 8.08e-03 -4.65e-03 -1.49e-03 -5.11e-03 6.39e-03  
## 2918 -8.57e-03 1.62e-02 1.59e-02 2.79e-02 -2.12e-02 -1.36e-02 -1.66e-02  
## 2919 -7.65e-03 6.47e-03 -4.81e-03 7.82e-03 1.38e-03 1.16e-02 1.02e-02  
## 2920 1.35e-02 -1.56e-02 1.16e-02 -6.54e-03 -4.09e-03 -3.31e-03 -1.69e-02  
## 2921 -6.50e-03 -7.94e-03 -2.03e-03 -1.69e-03 -9.42e-03 2.25e-03 1.24e-02  
## 2922 3.61e-04 -1.00e-03 -8.23e-04 -1.00e-03 1.35e-03 -1.76e-03 2.50e-04  
## 2923 -2.76e-02 1.87e-02 -1.33e-02 5.53e-03 4.80e-03 -4.38e-03 2.15e-02  
## 2924 4.05e-03 -3.26e-03 3.87e-04 -5.32e-05 3.63e-03 3.37e-03 -6.98e-03  
## 2925 -1.78e-03 1.69e-03 4.25e-04 3.26e-03 -3.54e-03 1.95e-03 3.32e-03  
## 2926 -2.05e-04 1.85e-03 1.97e-04 -1.08e-03 -1.52e-03 -1.22e-03 -2.38e-03  
## 2927 2.39e-02 -1.69e-02 4.04e-02 4.07e-02 -5.24e-02 4.45e-03 -1.29e-02  
## 2928 -5.72e-03 8.73e-03 1.75e-02 -7.93e-03 6.71e-03 -1.23e-02 5.48e-04  
## 2929 -8.19e-04 -1.13e-03 1.61e-04 2.93e-05 1.06e-03 -1.95e-03 1.38e-03  
## 2930 7.91e-03 -3.71e-03 1.64e-04 -3.11e-03 -3.82e-03 -4.51e-03 -6.50e-04  
## 2931 -5.37e-03 -4.53e-03 1.85e-03 4.50e-03 -6.55e-03 9.78e-04 -2.51e-04  
## 2932 9.33e-03 1.44e-02 -1.47e-02 1.44e-02 1.09e-03 1.30e-02 -1.09e-02  
## 2933 -1.71e-03 -6.87e-03 -4.56e-03 2.72e-04 -9.33e-03 -8.29e-04 -5.08e-05  
## 2934 -6.36e-03 6.85e-03 -6.25e-03 -8.66e-03 8.26e-03 -2.53e-03 1.66e-03  
## 2935 -1.52e-03 -1.62e-02 -3.73e-02 -1.13e-02 4.36e-03 -1.27e-02 -1.24e-02  
## 2936 -7.68e-03 -1.96e-02 -4.33e-02 -2.81e-02 7.94e-03 -3.84e-02 -2.36e-02  
## 2937 -9.79e-04 1.44e-03 -1.33e-03 -1.32e-03 1.97e-03 -1.78e-03 3.24e-04  
## 2938 6.02e-04 -7.51e-04 5.72e-05 -6.77e-04 -5.51e-04 -7.25e-04 -2.53e-04  
## 2939 -6.36e-05 3.09e-03 -7.89e-04 2.60e-03 1.99e-03 7.65e-04 -4.43e-03  
## 2940 1.50e-02 1.08e-02 -3.69e-03 4.22e-03 4.40e-03 -4.42e-03 1.19e-02  
## 2941 -1.98e-02 1.46e-02 -7.85e-03 6.09e-03 5.01e-03 4.78e-03 1.87e-02  
## 2942 -6.46e-03 -1.01e-02 -5.37e-03 -2.71e-03 -1.38e-02 8.01e-03 1.19e-03  
## 2943 2.15e-03 8.79e-03 -6.07e-03 -2.19e-03 -1.30e-02 5.08e-03 1.24e-02  
## 2944 -8.05e-04 -1.43e-02 -2.46e-02 1.64e-02 -7.72e-03 -1.41e-03 8.50e-03  
## 2945 -2.17e-04 6.08e-04 1.17e-04 -6.34e-04 -2.18e-04 -8.36e-04 1.54e-05  
## 2946 1.20e-02 7.29e-03 -1.84e-03 2.12e-03 3.46e-03 -9.93e-03 -2.70e-03  
## 2947 3.66e-03 7.10e-03 -2.32e-03 -1.30e-02 1.07e-02 -7.48e-04 -2.42e-03  
## 2948 1.06e-02 -4.56e-03 -5.12e-04 -3.06e-03 -4.99e-03 7.11e-04 -7.96e-04  
## 2949 -2.78e-02 1.26e-02 1.00e-02 6.80e-03 1.90e-02 -8.88e-04 1.00e-02  
## 2950 2.28e-02 1.36e-02 9.82e-03 -5.58e-03 -2.95e-03 -2.63e-03 3.78e-03  
## 2951 -2.12e-04 -9.12e-03 7.85e-03 -4.37e-03 -1.62e-03 -4.61e-03 7.19e-03  
## 2952 2.29e-03 1.03e-02 -1.00e-02 1.18e-02 6.05e-04 1.03e-02 1.15e-02  
## 2953 -8.31e-03 -1.95e-02 -1.72e-02 7.74e-03 4.69e-03 3.45e-03 -1.10e-02  
## 2954 8.85e-03 -5.55e-03 -7.92e-04 1.61e-03 2.81e-03 -1.01e-02 -1.64e-03  
## 2955 1.02e-02 1.12e-02 -3.43e-03 -6.08e-03 -1.24e-02 6.50e-03 -3.53e-03  
## 2956 -5.81e-03 -1.41e-02 1.14e-02 -9.66e-03 -2.52e-03 -1.13e-02 8.07e-03  
## 2957 4.25e-03 8.63e-03 -2.28e-03 2.85e-03 3.64e-03 2.09e-03 -5.16e-03  
## 2958 6.52e-03 2.15e-02 3.21e-03 2.16e-02 2.38e-02 2.78e-02 -3.20e-02  
## 2959 7.18e-03 -3.99e-03 -5.62e-04 -1.98e-03 -4.16e-03 -8.51e-04 -6.14e-03  
## 2960 2.71e-03 6.39e-03 -2.57e-03 -1.10e-02 9.48e-03 -2.65e-03 -1.10e-02  
## 2961 3.85e-02 -2.03e-02 2.04e-02 -2.48e-02 -8.14e-04 -1.55e-02 1.83e-04  
## 2962 -6.38e-03 -1.87e-02 3.95e-02 1.41e-02 -5.55e-03 -7.84e-03 2.13e-02  
## 2963 -8.98e-05 2.05e-03 -1.32e-03 -2.24e-03 2.87e-03 -1.94e-03 1.07e-04  
## 2964 -1.32e-03 1.87e-02 -1.28e-02 7.21e-03 4.83e-03 1.34e-02 1.48e-02  
## 2965 -2.44e-04 -4.79e-04 -8.11e-05 4.37e-05 -5.54e-04 -6.11e-04 1.60e-04  
## 2966 2.19e-02 -1.12e-02 -2.54e-02 -7.20e-03 3.45e-03 1.67e-05 -1.26e-02  
## 2967 -3.79e-03 2.50e-03 -2.06e-04 6.08e-05 2.57e-03 9.39e-04 3.97e-03  
## 2968 -9.93e-04 -1.42e-03 1.93e-04 -6.64e-05 1.47e-03 -1.38e-03 -2.63e-03  
## 2969 -1.44e-02 2.61e-02 1.74e-02 5.15e-04 3.65e-02 -1.36e-02 -3.25e-02  
## 2970 -1.24e-02 -1.92e-02 1.56e-02 -1.39e-02 -2.99e-03 -7.77e-03 9.41e-03  
## 2971 -1.85e-03 1.08e-02 -2.10e-03 2.74e-03 4.38e-03 1.07e-03 -5.97e-03  
## 2972 1.46e-02 6.45e-03 3.05e-04 1.09e-02 -1.40e-02 -2.47e-03 -1.24e-02  
## 2973 1.16e-02 7.46e-03 -1.72e-03 1.75e-03 3.74e-03 -1.13e-02 -3.13e-03  
## 2974 1.30e-03 1.22e-02 -7.66e-03 7.28e-03 2.49e-03 1.09e-02 1.34e-02  
## 2975 -2.51e-03 2.50e-03 7.28e-03 3.63e-03 -5.84e-04 4.31e-03 -5.24e-04  
## 2976 6.18e-04 1.87e-03 5.68e-04 -2.41e-03 -1.05e-03 -4.63e-03 2.02e-03  
## 2977 2.02e-03 -3.09e-03 5.58e-04 -3.72e-03 -2.01e-03 -7.22e-03 -1.43e-03  
## 2978 9.05e-04 8.40e-04 -8.67e-05 -2.84e-04 -8.56e-04 1.43e-03 1.43e-04  
## 2979 -5.61e-03 -5.41e-03 -2.64e-04 -7.06e-04 5.67e-03 2.67e-03 7.88e-03  
## 2980 3.46e-03 -4.63e-03 -2.24e-03 -8.11e-03 7.44e-03 -1.86e-03 -6.84e-03  
## 2981 7.77e-03 -8.57e-03 -4.12e-03 8.81e-03 4.10e-03 -2.49e-03 -3.89e-03  
## 2982 -1.77e-02 -6.56e-03 -2.32e-03 -1.15e-03 -7.23e-03 -2.56e-03 1.29e-02  
## 2983 -2.24e-06 -1.38e-05 2.98e-06 -7.70e-06 -1.02e-05 -3.65e-06 4.84e-06  
## 2984 -1.19e-03 2.69e-03 -2.65e-03 -2.41e-03 3.53e-03 -3.91e-03 5.12e-04  
## 2985 1.16e-02 6.43e-03 1.73e-03 9.14e-03 -1.39e-02 -9.85e-03 -2.59e-03  
## 2986 1.70e-02 -1.59e-02 1.10e-02 -6.32e-03 -4.37e-03 1.08e-02 -2.24e-02  
## 2987 -5.06e-03 -1.24e-02 2.48e-02 -1.51e-02 8.06e-03 8.91e-03 1.43e-02  
## 2988 -7.19e-03 8.23e-03 -2.98e-03 2.70e-03 3.64e-03 -2.87e-03 1.25e-02  
## 2989 2.54e-03 3.95e-03 9.24e-04 -4.23e-03 -3.36e-03 -9.69e-03 4.04e-05  
## 2990 4.85e-04 -5.65e-04 2.84e-04 7.23e-04 -8.80e-04 -6.00e-04 -1.10e-03  
## 2991 -1.64e-02 -1.25e-02 -5.80e-03 3.57e-03 3.81e-03 -2.62e-02 1.93e-02  
## 2992 1.01e-02 -1.07e-02 -5.14e-03 6.35e-03 3.14e-03 2.92e-03 -2.23e-02  
## 2993 2.03e-02 -2.03e-02 -3.47e-02 1.75e-02 -1.19e-02 -1.30e-02 1.92e-03  
## 2994 -1.35e-02 1.87e-02 -1.32e-02 5.52e-03 5.41e-03 -1.32e-04 1.84e-02  
## 2995 4.70e-03 3.66e-03 6.33e-05 -3.19e-03 -3.88e-03 -2.80e-04 -3.88e-04  
## 2996 8.18e-03 -1.15e-02 9.83e-03 -6.13e-03 -2.42e-03 -2.32e-03 6.40e-03  
## 2997 4.74e-03 5.26e-03 -9.66e-04 1.84e-03 2.87e-03 -3.76e-03 -1.29e-03  
## 2998 4.42e-03 5.33e-03 -2.98e-04 3.75e-03 2.67e-03 2.68e-03 -2.20e-03  
## 2999 1.35e-02 -1.76e-02 4.50e-03 -3.29e-02 4.47e-02 -1.13e-02 4.20e-03  
## 3000 5.84e-03 -1.12e-02 4.77e-03 1.09e-02 1.37e-02 -6.52e-03 -1.07e-02  
## 3001 1.03e-02 -7.74e-03 1.93e-02 6.30e-03 -9.44e-04 3.58e-03 -2.75e-03  
## 3002 1.75e-02 -1.14e-02 -2.37e-02 -9.57e-03 4.41e-03 6.70e-04 5.37e-03  
## 3003 1.92e-02 1.76e-02 -3.57e-02 -1.75e-02 6.43e-03 -1.35e-02 -2.06e-02  
## 3004 1.39e-03 -4.09e-03 -1.88e-04 1.58e-03 2.52e-03 -4.93e-03 -9.71e-05  
## 3005 1.77e-02 9.64e-03 -3.41e-03 2.78e-03 4.34e-03 -1.47e-02 -1.93e-02  
## 3006 -1.55e-02 1.25e-02 3.36e-02 3.03e-02 -3.92e-02 9.25e-03 -2.39e-03  
## 3007 1.12e-04 -2.03e-03 6.55e-04 -1.76e-03 -1.43e-03 -4.80e-03 4.78e-04  
## 3008 -2.48e-04 -1.64e-03 -5.89e-05 3.67e-04 1.50e-03 3.67e-04 2.07e-03  
## 3009 9.41e-04 -1.23e-02 -6.76e-03 9.93e-03 3.80e-03 -4.32e-03 -2.33e-02  
## 3010 -7.87e-03 1.42e-02 2.58e-02 -1.67e-02 8.66e-03 3.68e-03 -6.51e-03  
## 3011 -2.86e-03 -2.38e-03 -2.32e-04 2.75e-04 2.35e-03 3.42e-04 -2.69e-05  
## 3012 -3.16e-03 1.78e-02 8.01e-03 -5.73e-03 -4.87e-03 9.61e-03 1.03e-02  
## 3013 4.56e-03 -4.53e-03 7.44e-04 -3.85e-03 -4.36e-03 -1.02e-03 -8.00e-04  
## 3014 -8.83e-05 1.30e-04 3.47e-04 2.02e-04 8.35e-06 2.71e-04 -1.68e-04  
## 3015 -1.56e-02 2.77e-02 -4.55e-04 2.10e-02 2.94e-02 -1.09e-02 6.79e-03  
## 3016 -3.24e-03 2.58e-03 7.79e-04 4.81e-03 -5.48e-03 5.73e-04 5.08e-03  
## 3017 5.27e-03 5.49e-03 -8.83e-04 1.62e-03 3.05e-03 -6.05e-03 -1.55e-03  
## 3018 7.27e-03 -6.28e-03 -8.48e-04 1.59e-03 3.15e-03 -7.99e-03 -1.66e-03  
## 3019 -5.63e-03 -5.33e-03 -2.35e-04 -7.54e-04 5.56e-03 1.33e-03 7.83e-03  
## 3020 4.87e-03 4.38e-03 1.43e-03 6.89e-03 -9.58e-03 -3.08e-03 -9.12e-04  
## 3021 6.81e-04 -1.32e-03 7.41e-05 1.37e-04 1.24e-03 -3.29e-03 1.46e-03  
## 3022 3.47e-03 1.18e-02 1.33e-02 2.16e-02 -1.47e-02 -3.76e-04 5.29e-03  
## 3023 1.22e-02 -7.49e-03 -1.97e-03 2.50e-03 3.34e-03 -5.95e-03 -2.36e-03  
## 3024 -2.99e-02 -2.38e-02 7.16e-03 -6.53e-03 -1.01e-02 9.90e-03 -2.42e-02  
## 3025 1.39e-02 -2.18e-02 5.12e-03 1.47e-02 2.52e-02 2.32e-02 3.90e-02  
## 3026 9.55e-03 -1.12e-02 7.81e-03 -3.63e-03 -3.28e-03 -1.67e-03 -1.06e-02  
## 3027 3.67e-02 2.05e-02 -3.38e-02 2.19e-02 -1.09e-02 -1.97e-02 -3.03e-02  
## 3028 -4.15e-04 1.30e-03 6.48e-05 6.71e-04 9.88e-04 -2.44e-03 2.26e-04  
## 3029 5.46e-04 -3.17e-03 -3.32e-03 -3.00e-03 4.28e-03 -6.25e-03 7.06e-04  
## 3030 1.17e-02 -1.09e-02 7.94e-03 -4.17e-03 -3.31e-03 -1.72e-03 6.27e-03  
## 3031 -2.40e-02 -1.70e-02 3.09e-02 -2.44e-02 1.09e-02 8.50e-04 2.12e-02  
## 3032 9.99e-05 1.08e-03 -4.55e-04 1.34e-03 3.88e-04 2.04e-03 1.88e-03  
## 3033 3.86e-04 1.49e-03 -2.31e-04 1.05e-03 8.92e-04 2.37e-04 1.22e-04  
## 3034 -1.45e-03 -7.58e-03 1.37e-02 -5.59e-03 5.07e-03 -5.86e-03 1.09e-04  
## 3035 1.90e-04 5.04e-04 1.12e-03 -3.83e-04 4.75e-04 3.00e-04 8.29e-04  
## 3036 9.72e-03 -2.90e-02 2.63e-02 2.84e-02 -3.71e-02 4.26e-02 -4.02e-03  
## 3037 3.12e-03 1.09e-02 6.96e-04 1.57e-02 -2.44e-02 -9.12e-03 -6.21e-03  
## 3038 3.39e-02 -2.40e-02 1.76e-02 -2.20e-02 -7.14e-03 -3.71e-02 -4.37e-02  
## 3039 1.14e-02 1.76e-02 -3.82e-02 -1.00e-02 4.75e-03 2.77e-02 -2.06e-02  
## 3040 1.10e-02 1.98e-02 7.31e-03 -4.65e-03 -6.41e-03 1.54e-02 7.97e-03  
## 3041 2.14e-03 -5.45e-03 -4.05e-03 -7.49e-03 7.14e-03 3.38e-03 -1.21e-03  
## 3042 2.41e-03 -6.81e-03 -6.57e-03 -7.35e-03 7.39e-03 -6.05e-03 -5.30e-04  
## 3043 5.59e-03 1.89e-02 2.02e-02 3.15e-02 -2.36e-02 -7.34e-03 -2.51e-02  
## 3044 -1.01e-02 -1.17e-02 -3.28e-03 3.11e-03 4.25e-03 -9.95e-03 -3.93e-03  
## 3045 -3.59e-02 2.64e-02 3.83e-03 -7.67e-03 -1.32e-02 3.71e-02 7.21e-03  
## 3046 -1.66e-03 1.28e-02 8.14e-03 -4.94e-03 -2.46e-03 -5.92e-03 -1.36e-02  
## 3047 -7.91e-03 5.38e-03 -2.38e-04 -8.81e-04 5.77e-03 2.94e-03 7.76e-03  
## 3048 9.49e-04 7.86e-03 -6.39e-03 -1.30e-02 1.09e-02 6.68e-03 -1.45e-02  
## 3049 -2.35e-03 3.98e-03 -1.63e-03 3.85e-04 -5.47e-03 -5.56e-03 8.94e-04  
## 3050 1.67e-05 -4.90e-03 -1.51e-03 1.18e-02 -1.18e-02 -3.36e-03 9.05e-04  
## 3051 4.69e-02 -1.95e-02 9.25e-03 -4.75e-02 5.47e-02 -1.95e-02 -3.29e-03  
## 3052 7.04e-05 1.14e-03 9.00e-05 -2.81e-04 -1.07e-03 -4.40e-04 -1.56e-03  
## 3053 1.11e-03 1.67e-03 2.15e-04 -1.22e-03 -1.52e-03 -6.16e-04 1.39e-04  
## 3054 8.93e-03 2.32e-02 -5.67e-04 -3.64e-02 4.67e-02 1.12e-02 3.88e-02  
## 3055 7.10e-05 -1.58e-04 -1.64e-05 -1.89e-05 -1.42e-04 3.04e-04 -1.87e-04  
## 3056 -6.68e-03 1.03e-02 -8.22e-03 -1.86e-02 1.56e-02 -9.51e-03 1.56e-02  
## 3057 -8.66e-03 -1.16e-02 -2.15e-02 -1.19e-02 4.78e-03 -7.15e-03 9.97e-03  
## 3058 -8.78e-03 8.65e-03 2.17e-02 -1.53e-02 7.95e-03 2.31e-03 1.36e-02  
## 3059 4.20e-03 -1.71e-02 -1.63e-02 1.60e-02 -8.69e-05 9.36e-03 -8.74e-03  
## 3060 -2.25e-02 -1.60e-02 -1.16e-02 8.84e-03 2.52e-03 5.29e-03 1.98e-02  
## 3061 -1.12e-02 1.23e-02 -5.26e-03 3.10e-03 4.82e-03 -1.08e-02 -5.60e-03  
## 3062 -2.49e-02 -2.02e-02 -1.69e-02 9.24e-03 3.19e-03 2.68e-03 -6.77e-03  
## 3063 2.41e-03 -1.34e-02 1.02e-02 -5.02e-03 -3.00e-03 -4.81e-03 -1.12e-02  
## 3064 -2.76e-03 9.14e-03 -9.33e-03 -1.09e-02 1.08e-02 -4.28e-03 5.24e-04  
## 3065 1.18e-02 -7.28e-03 -1.96e-03 2.61e-03 3.21e-03 -4.61e-03 -2.26e-03  
## 3066 1.08e-02 -8.65e-03 -2.91e-03 3.25e-03 3.89e-03 -4.67e-03 1.21e-02  
## 3067 2.51e-03 1.59e-03 5.00e-05 -3.76e-04 -1.51e-03 -6.15e-04 -2.76e-03  
## 3068 -1.84e-03 8.67e-04 1.27e-04 6.71e-05 1.05e-03 -6.11e-04 1.53e-03  
## 3069 1.72e-03 -3.80e-03 -1.91e-03 4.61e-03 1.91e-03 6.93e-05 6.37e-03  
## 3070 1.00e-02 -5.93e-03 -2.00e-03 -2.83e-03 -7.28e-03 2.02e-03 -1.16e-02  
## 3071 -7.42e-04 6.10e-03 -7.73e-03 -5.72e-03 6.81e-03 -6.11e-03 2.46e-04  
## 3072 -1.04e-02 2.27e-02 6.02e-03 -8.39e-03 -1.14e-02 6.95e-03 9.84e-03  
## 3073 1.58e-04 -1.23e-04 4.35e-05 1.82e-04 -2.09e-04 1.10e-05 -1.73e-05  
## 3074 3.90e-03 7.40e-03 -1.56e-02 -5.32e-03 2.44e-03 5.88e-06 5.37e-03  
## 3075 -3.33e-02 1.60e-02 8.30e-03 -7.11e-03 -6.08e-03 5.95e-03 1.65e-02  
## 3076 -2.58e-02 1.10e-02 -5.72e-03 2.87e-03 4.56e-03 -1.91e-02 1.92e-02  
## 3077 1.87e-02 -1.34e-02 8.19e-03 -5.00e-03 -4.67e-03 -3.46e-03 -1.38e-02  
## 3078 -2.07e-04 3.00e-04 -6.11e-05 3.02e-04 1.35e-04 2.57e-04 -4.41e-04  
## 3079 -3.62e-04 -4.20e-04 6.12e-05 7.34e-05 4.37e-04 -8.81e-04 5.96e-04  
## 3080 3.83e-03 5.63e-03 -7.81e-04 2.02e-03 3.48e-03 -8.40e-03 -8.29e-04  
## 3081 -1.58e-02 -1.00e-02 8.38e-03 -4.73e-03 -1.76e-03 -5.08e-03 9.74e-03  
## 3082 1.39e-02 1.81e-02 -1.32e-02 1.09e-02 1.31e-03 7.04e-03 -1.10e-02  
## 3083 5.48e-03 9.94e-03 8.70e-03 -4.99e-03 -1.90e-03 -1.82e-03 4.75e-03  
## 3084 -1.83e-05 -4.02e-04 -1.12e-04 1.34e-04 3.88e-04 1.36e-05 -1.92e-05  
## 3085 -5.25e-03 3.97e-03 5.31e-04 -5.36e-03 -1.90e-03 -1.03e-03 6.60e-04  
## 3086 2.39e-03 -1.65e-02 6.54e-03 -4.63e-03 -7.23e-03 8.64e-03 1.22e-02  
## 3087 4.81e-03 -3.81e-03 -1.13e-03 -8.20e-03 6.74e-03 -1.08e-02 5.18e-06  
## 3088 2.37e-02 1.90e-02 9.87e-03 -4.16e-03 -5.21e-03 2.98e-02 -2.65e-02  
## 3089 1.87e-05 3.91e-03 1.10e-03 6.91e-03 -8.31e-03 -9.96e-05 -7.55e-04  
## 3090 -6.61e-04 -6.65e-03 -2.71e-03 5.53e-03 2.85e-03 2.37e-03 -1.88e-03  
## 3091 -1.54e-02 1.67e-02 -1.21e-02 8.69e-03 3.28e-03 1.21e-02 1.71e-02  
## 3092 -1.10e-04 -1.82e-03 -1.30e-03 -1.98e-03 2.55e-03 1.46e-03 3.45e-03  
## 3093 5.83e-03 4.97e-03 1.78e-03 7.30e-03 -1.07e-02 -6.76e-03 -1.20e-03  
## 3094 1.05e-02 -1.66e-02 -3.15e-02 2.41e-02 -1.19e-02 -1.11e-02 -1.83e-02  
## 3095 9.89e-04 -3.58e-03 -2.56e-04 1.65e-03 2.15e-03 -2.51e-03 4.14e-05  
## 3096 6.09e-03 -1.08e-02 -1.34e-02 -1.28e-02 1.15e-02 4.67e-03 -3.15e-03  
## 3097 -5.55e-03 -8.34e-03 -7.69e-03 1.00e-02 3.22e-04 7.22e-03 4.76e-04  
## 3098 -1.23e-02 2.45e-02 6.77e-04 -7.27e-03 -1.20e-02 5.06e-03 1.07e-02  
## 3099 -4.10e-02 2.27e-02 -6.10e-02 -1.28e-02 1.88e-03 4.11e-02 1.16e-02  
## 3100 -2.86e-02 2.06e-02 4.27e-02 1.56e-02 -7.40e-03 -4.88e-03 -1.13e-02  
## 3101 -2.36e-03 5.15e-03 -1.17e-03 3.08e-03 1.89e-03 2.33e-03 -1.33e-03  
## 3102 5.28e-04 1.45e-03 1.25e-04 -1.38e-03 -9.61e-04 -1.50e-03 -4.89e-04  
## 3103 -1.51e-04 1.74e-04 1.48e-04 1.66e-04 -2.40e-04 3.39e-04 -2.83e-05  
## 3104 5.82e-03 -6.60e-03 -1.63e-04 1.46e-02 -1.57e-02 1.28e-03 9.87e-03  
## 3105 3.03e-04 1.09e-03 -3.69e-04 1.17e-03 6.00e-04 1.01e-03 -1.35e-03  
## 3106 7.45e-03 -6.16e-03 -7.53e-04 1.48e-03 3.13e-03 -8.53e-03 -1.87e-03  
## 3107 2.61e-02 -2.55e-02 1.66e-02 -5.49e-03 3.61e-02 3.15e-02 -5.07e-03  
## 3108 8.25e-05 -1.32e-04 1.03e-04 1.23e-04 -1.64e-04 1.83e-04 -5.94e-05  
## 3109 -5.89e-03 1.70e-02 -2.12e-02 -2.60e-02 1.92e-02 5.18e-03 -6.27e-03  
## 3110 1.89e-02 1.19e-02 -2.44e-03 4.77e-03 4.29e-03 2.03e-03 -1.01e-02  
## 3111 -4.54e-03 1.36e-02 1.24e-02 -7.99e-03 -2.34e-03 -5.43e-03 9.15e-03  
## 3112 -1.22e-02 -9.96e-03 2.13e-02 1.26e-02 -3.24e-03 -9.72e-06 1.30e-02  
## 3113 3.02e-03 -5.67e-03 1.26e-02 2.18e-03 -1.05e-02 -2.63e-03 -9.01e-04  
## 3114 9.58e-05 4.46e-04 -8.99e-05 3.86e-04 2.61e-04 6.00e-04 4.13e-05  
## 3115 7.89e-03 1.33e-02 -2.28e-02 1.69e-02 -8.14e-03 -1.47e-03 4.55e-03  
## 3116 5.60e-05 -9.76e-05 -6.31e-05 -1.15e-04 1.59e-04 1.99e-04 -1.21e-04  
## 3117 1.27e-03 2.27e-02 -5.89e-02 -1.60e-02 3.02e-03 -5.25e-03 1.19e-02  
## 3118 -3.69e-04 -7.49e-04 -2.19e-03 -1.44e-04 1.18e-03 -2.35e-03 -1.27e-04  
## 3119 -2.45e-02 1.57e-02 -1.21e-02 8.27e-03 3.04e-03 -6.79e-04 2.07e-02  
## 3120 -8.41e-04 -5.54e-03 -7.95e-04 -1.90e-05 5.33e-03 1.98e-03 -2.26e-03  
## 3121 5.49e-03 5.38e-03 -7.86e-04 1.51e-03 3.02e-03 -6.52e-03 -1.77e-03  
## 3122 3.54e-03 -4.02e-03 -2.96e-04 -2.93e-03 -4.44e-03 8.04e-04 6.50e-03  
## 3123 1.58e-02 2.21e-02 1.50e-02 -1.31e-02 -5.63e-03 -1.06e-02 -3.29e-02  
## 3124 6.46e-03 4.38e-03 1.41e-03 6.56e-03 -9.24e-03 -6.38e-03 -9.60e-04  
## 3125 -3.28e-03 5.52e-03 -6.76e-03 -5.54e-03 6.66e-03 -3.08e-03 5.96e-04  
## 3126 5.50e-03 5.84e-03 -1.50e-03 -9.48e-03 8.70e-03 -1.39e-03 -1.98e-03  
## 3127 -2.92e-03 4.06e-03 -1.04e-02 2.95e-03 -3.95e-03 1.20e-03 6.41e-03  
## 3128 -1.66e-02 1.72e-02 -8.80e-03 3.79e-03 5.04e-03 5.46e-03 1.86e-02  
## 3129 3.40e-04 2.03e-03 -1.77e-03 -2.39e-03 2.62e-03 3.25e-03 3.67e-03  
## 3130 3.00e-03 -1.58e-03 -8.74e-05 -8.20e-04 -1.68e-03 1.37e-03 -1.07e-04  
## 3131 -1.59e-03 1.57e-02 -3.24e-02 -1.83e-02 7.64e-03 -1.15e-02 8.29e-03  
## 3132 2.26e-02 1.59e-02 1.16e-02 -8.04e-03 -2.68e-03 -5.19e-03 -2.01e-02  
## 3133 1.62e-02 -9.55e-03 -4.73e-03 -2.46e-03 -1.34e-02 -5.20e-03 -3.84e-03  
## 3134 7.61e-03 1.97e-02 7.50e-03 -5.10e-03 -6.34e-03 1.93e-02 8.16e-03  
## 3135 2.10e-02 -2.15e-02 6.76e-03 -5.38e-03 -8.13e-03 3.92e-02 -3.42e-02  
## 3136 -2.50e-02 1.42e-02 -1.02e-02 7.82e-03 3.35e-03 6.25e-03 1.93e-02  
## 3137 -1.46e-02 -1.36e-02 -2.83e-02 -7.98e-03 3.79e-03 -8.86e-03 -6.73e-03  
## 3138 -2.50e-02 -2.49e-02 3.52e-03 -6.01e-03 -1.40e-02 3.64e-02 7.69e-03  
## 3139 2.89e-02 1.08e-02 -1.59e-03 -8.41e-03 -1.20e-02 1.98e-03 -2.65e-02  
## 3140 5.25e-03 5.20e-03 -8.06e-04 1.60e-03 2.90e-03 -5.32e-03 -1.68e-03  
## 3141 3.96e-03 1.31e-02 1.07e-02 -5.47e-03 -3.36e-03 4.46e-03 -1.59e-02  
## 3142 -2.05e-02 1.22e-02 4.67e-03 1.21e-02 1.57e-02 -1.43e-02 -9.40e-03  
## 3143 1.27e-02 -1.56e-02 -1.43e-02 -2.91e-02 2.15e-02 1.16e-02 1.62e-02  
## 3144 -1.17e-02 -7.69e-03 -5.00e-03 7.25e-03 1.32e-03 8.16e-03 1.25e-02  
## 3145 7.61e-03 -1.06e-02 -1.93e-03 3.72e-03 3.32e-03 5.35e-03 -7.11e-03  
## 3146 -2.25e-02 1.15e-02 -8.10e-03 5.47e-03 3.58e-03 -4.79e-03 2.03e-02  
## 3147 -1.51e-02 1.23e-02 -4.03e-03 -1.01e-02 -1.47e-02 4.84e-03 1.80e-02  
## 3148 6.03e-03 -9.40e-03 -4.65e-03 7.89e-03 2.77e-03 5.74e-04 1.31e-02  
## 3149 -5.36e-04 -8.28e-03 -3.26e-03 5.22e-03 2.92e-03 2.45e-03 -1.52e-02  
## 3150 -2.00e-02 -1.73e-02 3.97e-02 1.11e-02 -3.82e-03 -1.49e-03 1.68e-02  
## 3151 2.09e-04 1.45e-03 5.57e-04 2.73e-03 -3.04e-03 6.66e-04 1.21e-04  
## 3152 4.13e-03 -4.15e-03 -9.05e-04 2.21e-03 1.87e-03 2.93e-03 -8.19e-04  
## 3153 3.14e-02 -1.94e-02 7.04e-03 -7.35e-03 -8.55e-03 6.90e-03 6.44e-03  
## 3154 1.23e-03 -1.98e-02 1.50e-02 4.07e-02 -2.90e-02 -1.73e-03 1.03e-02  
## 3155 -3.30e-03 2.65e-02 5.14e-02 1.88e-02 -8.96e-03 8.44e-03 -2.35e-02  
## 3156 2.05e-03 4.20e-03 3.47e-05 1.48e-04 4.10e-03 -5.39e-03 -9.40e-03  
## 3157 3.70e-04 3.24e-03 -1.86e-04 1.41e-03 2.19e-03 -3.55e-03 -1.58e-04  
## 3158 -1.20e-03 1.28e-02 -7.30e-03 8.23e-03 4.21e-03 6.16e-03 -2.98e-02  
## 3159 -1.81e-02 1.44e-02 2.89e-02 1.77e-02 -6.43e-03 1.09e-02 -4.97e-03  
## 3160 7.18e-03 1.55e-02 -1.39e-02 1.28e-02 1.99e-03 1.48e-02 1.45e-02  
## 3161 9.22e-04 2.03e-03 2.74e-04 -1.58e-03 -1.86e-03 -6.14e-04 2.29e-04  
## 3162 2.30e-05 6.88e-03 -2.86e-03 -1.38e-02 1.00e-02 -3.72e-03 -2.18e-03  
## 3163 -2.11e-03 3.18e-03 1.22e-03 3.93e-03 -4.91e-03 -1.86e-03 -1.10e-04  
## 3164 1.18e-03 -2.07e-03 -5.99e-04 1.80e-03 1.00e-03 4.15e-03 6.25e-05  
## 3165 1.28e-03 1.23e-03 -5.12e-05 -3.92e-04 -1.41e-03 1.28e-03 -3.52e-04  
## 3166 -1.59e-02 1.56e-02 -1.17e-02 1.23e-02 4.94e-03 1.76e-03 -4.96e-03  
## 3167 1.11e-03 -2.93e-03 -2.19e-04 1.78e-03 2.05e-03 -4.66e-03 4.92e-04  
## 3168 -1.88e-03 -1.53e-02 5.94e-03 -2.82e-02 3.69e-02 -1.29e-02 -1.60e-02  
## 3169 2.08e-03 -3.45e-03 -1.06e-03 -6.61e-03 5.75e-03 -3.31e-03 3.51e-05  
## 3170 -1.03e-02 8.09e-03 -8.23e-03 -1.12e-02 1.14e-02 8.90e-03 1.52e-02  
## 3171 1.80e-02 -1.43e-02 -2.68e-02 2.15e-02 -9.67e-03 1.73e-03 -1.72e-02  
## 3172 -1.75e-04 -8.22e-04 -3.68e-04 -1.15e-03 1.37e-03 7.69e-04 -9.49e-04  
## 3173 3.46e-03 -2.30e-03 -1.19e-04 9.25e-05 2.40e-03 -4.74e-03 -5.43e-03  
## 3174 2.91e-02 -2.33e-02 2.21e-02 3.33e-02 -3.14e-02 -2.47e-02 -3.81e-02  
## 3175 4.82e-05 -2.73e-03 -1.99e-04 1.68e-03 1.85e-03 -1.81e-03 3.74e-04  
## 3176 7.10e-03 -6.20e-03 -8.64e-04 1.65e-03 3.09e-03 -7.38e-03 -1.60e-03  
## 3177 -1.21e-03 1.41e-03 7.47e-04 1.67e-03 -2.12e-03 -2.40e-04 2.13e-03  
## 3178 -1.14e-02 -8.73e-03 -6.15e-03 -1.26e-02 1.23e-02 -7.42e-03 1.54e-02  
## 3179 1.39e-02 -1.33e-02 -2.93e-02 2.60e-02 -1.23e-02 2.14e-02 -1.86e-02  
## 3180 -7.50e-04 7.53e-04 4.58e-04 7.56e-04 -1.04e-03 1.87e-04 1.22e-03  
## 3181 3.64e-02 1.95e-02 -4.29e-02 -9.34e-03 3.50e-03 3.08e-02 -2.64e-02  
## 3182 1.01e-04 2.66e-03 -2.74e-04 5.67e-04 2.19e-03 -4.04e-03 -1.27e-03  
## 3183 4.52e-03 1.20e-02 -7.47e-03 -5.81e-03 -1.66e-02 8.07e-03 1.41e-02  
## 3184 -7.32e-03 2.15e-02 6.97e-03 -8.29e-03 -8.54e-03 7.91e-03 9.77e-03  
## 3185 6.56e-03 -4.51e-03 1.87e-04 -3.67e-03 -4.31e-03 -1.60e-03 -6.11e-04  
## 3186 -6.25e-04 5.66e-04 -6.24e-05 -2.33e-05 -6.70e-04 4.18e-04 1.24e-03  
## 3187 -9.83e-03 1.30e-02 3.01e-02 9.27e-03 -2.90e-03 -1.61e-02 1.72e-02  
## 3188 -6.36e-05 -7.29e-04 1.60e-04 -7.62e-04 -4.46e-04 -1.17e-03 -1.69e-04  
## 3189 3.59e-04 -2.46e-03 8.73e-04 -2.33e-03 -1.70e-03 -7.05e-03 4.41e-04  
## 3190 -1.22e-02 2.18e-02 -4.07e-02 2.47e-02 -1.53e-02 -1.98e-02 -2.62e-02  
## 3191 -8.45e-03 -1.55e-02 -1.04e-02 7.13e-03 4.17e-03 8.74e-03 1.66e-02  
## 3192 1.90e-03 -4.80e-03 -7.18e-05 1.38e-03 3.05e-03 -9.21e-03 -2.32e-04  
## 3193 -2.86e-02 2.14e-02 4.06e-03 1.35e-02 2.38e-02 1.53e-02 1.04e-02  
## 3194 6.67e-03 1.41e-02 -1.55e-02 -1.81e-02 1.64e-02 -9.11e-03 -4.66e-03  
## 3195 2.28e-04 1.79e-03 5.31e-04 -2.29e-03 -1.02e-03 -3.45e-03 1.99e-03  
## 3196 -1.48e-02 -1.92e-02 2.55e-02 2.38e-02 -2.08e-02 -1.35e-02 9.40e-03  
## 3197 6.16e-05 -4.42e-03 -1.32e-03 4.47e-03 2.00e-03 -1.41e-04 -7.35e-03  
## 3198 -3.60e-04 1.43e-02 -6.67e-03 4.20e-03 4.56e-03 -9.11e-03 -9.18e-03  
## 3199 -7.40e-03 5.26e-03 2.29e-03 5.19e-03 -8.19e-03 3.96e-03 8.34e-03  
## 3200 1.57e-03 1.43e-03 2.79e-04 2.81e-03 -2.95e-03 9.44e-04 8.41e-05  
## 3201 -1.61e-04 2.06e-04 7.55e-05 -5.05e-05 2.73e-04 3.85e-04 -7.88e-05  
## 3202 6.68e-03 -5.97e-03 -9.06e-04 1.81e-03 2.94e-03 -5.46e-03 -1.46e-03  
## 3203 1.44e-02 -6.71e-03 -1.75e-03 2.34e-03 3.06e-03 -1.03e-02 -2.58e-03  
## 3204 4.03e-03 6.26e-03 -5.58e-03 -8.45e-03 8.25e-03 6.99e-05 -1.15e-02  
## 3205 -2.79e-03 7.08e-03 6.50e-03 -3.20e-03 -1.38e-03 -3.57e-03 6.50e-03  
## 3206 7.45e-04 2.22e-03 -2.51e-04 3.38e-04 2.11e-03 -3.59e-03 -5.36e-04  
## 3207 1.94e-03 -2.96e-03 -2.50e-04 1.53e-03 1.79e-03 -3.25e-03 1.96e-05  
## 3208 -5.04e-03 1.08e-02 -1.22e-02 -1.71e-02 1.32e-02 8.74e-03 1.43e-02  
## 3209 -3.24e-03 -4.08e-03 -7.11e-04 -1.54e-03 -4.21e-03 1.65e-03 7.48e-03  
## 3210 -1.92e-02 1.08e-02 2.17e-02 1.49e-02 -3.76e-03 -2.16e-03 -1.42e-04  
## 3211 -1.07e-02 1.25e-02 -1.55e-02 -1.92e-02 1.48e-02 3.52e-03 -1.63e-03  
## 3212 7.43e-04 2.32e-02 1.43e-03 2.09e-02 2.39e-02 1.54e-02 8.66e-03  
## 3213 1.34e-02 -7.88e-03 -1.86e-03 2.04e-03 3.63e-03 -1.07e-02 -2.77e-03  
## 3214 -5.70e-03 2.21e-03 -1.78e-03 3.16e-03 4.93e-04 1.74e-03 4.52e-03  
## 3215 6.32e-04 -2.53e-03 3.61e-04 -1.59e-03 -1.97e-03 -3.05e-03 -3.23e-03  
## 3216 1.73e-03 -3.70e-03 1.68e-03 3.97e-03 -5.50e-03 2.85e-04 4.40e-03  
## 3217 -9.01e-03 1.13e-02 -4.64e-03 2.55e-03 3.96e-03 -1.64e-02 1.71e-02  
## 3218 -8.66e-03 1.01e-02 -3.30e-03 3.23e-03 4.08e-03 -1.37e-02 -3.66e-03  
## 3219 -8.79e-03 1.11e-02 -8.46e-03 -2.39e-02 1.64e-02 -2.19e-02 1.69e-02  
## 3220 -2.81e-02 1.59e-02 6.68e-03 -6.88e-03 -4.80e-03 -3.76e-03 3.96e-02  
## 3221 1.75e-02 -1.27e-02 -5.47e-03 6.86e-03 4.66e-03 5.82e-03 -8.64e-03  
## 3222 4.95e-03 5.51e-03 -9.84e-04 1.78e-03 3.02e-03 -4.88e-03 -1.32e-03  
## 3223 1.75e-04 1.18e-02 -2.68e-03 -1.12e-02 -1.45e-02 -9.93e-04 -5.37e-03  
## 3224 7.87e-04 9.50e-03 -6.90e-03 -8.15e-04 -1.36e-02 -4.20e-03 -1.68e-03  
## 3225 -1.52e-03 9.27e-03 8.65e-03 -5.53e-03 -1.33e-03 -6.02e-03 7.00e-03  
## 3226 1.79e-03 -2.58e-03 -2.80e-04 5.92e-04 2.27e-03 -6.66e-03 -1.30e-03  
## 3227 2.18e-02 -7.63e-03 -1.13e-03 4.18e-03 3.69e-03 1.04e-02 -7.65e-03  
## 3228 -9.19e-04 1.62e-03 4.82e-05 -9.21e-04 -1.55e-03 7.00e-04 -4.99e-05  
## 3229 -9.79e-03 1.42e-02 3.11e-02 -2.70e-02 1.20e-02 -2.71e-02 1.90e-02  
## 3230 -4.87e-05 -7.88e-04 2.03e-04 -5.31e-04 -5.71e-04 -7.90e-04 2.31e-04  
## 3231 1.50e-04 1.36e-03 4.26e-04 -1.49e-03 -5.80e-04 -2.66e-03 -2.42e-03  
## 3232 -3.48e-03 1.00e-02 -5.26e-03 5.29e-03 3.85e-03 -8.33e-04 -2.04e-02  
## 3233 -4.26e-04 -1.73e-03 2.93e-05 2.57e-04 1.56e-03 -3.76e-03 -6.77e-04  
## 3234 2.01e-05 -7.20e-05 1.78e-05 -4.54e-05 -5.55e-05 -8.98e-05 2.24e-05  
## 3235 -2.92e-03 8.49e-03 -2.35e-03 3.44e-03 3.21e-03 3.01e-03 -3.70e-03  
## 3236 1.93e-04 2.31e-02 2.47e-02 2.87e-02 -3.19e-02 2.08e-02 -2.42e-03  
## 3237 -2.45e-02 -2.49e-02 3.59e-03 -6.00e-03 -1.40e-02 3.61e-02 7.35e-03  
## 3238 -1.07e-03 2.23e-03 1.36e-03 3.40e-03 -4.11e-03 -5.79e-03 4.68e-04  
## 3239 -4.88e-05 -1.33e-02 -9.37e-03 6.86e-03 3.17e-03 -7.40e-04 1.70e-02  
## 3240 6.65e-03 1.16e-02 -5.12e-03 5.30e-03 4.08e-03 -7.15e-03 -2.33e-02  
## 3241 -8.51e-03 2.25e-02 6.07e-03 1.51e-02 2.76e-02 -1.75e-02 -2.63e-02  
## 3242 1.52e-02 -1.74e-02 5.79e-03 -5.57e-03 -8.54e-03 5.12e-03 9.66e-03  
## 3243 -9.74e-04 -2.49e-03 -1.68e-03 3.69e-03 3.62e-04 -3.75e-03 6.76e-04  
## 3244 5.78e-03 -9.11e-03 -1.53e-02 1.43e-02 -5.66e-03 9.23e-04 4.97e-03  
## 3245 1.17e-02 -1.10e-02 -2.30e-03 -9.14e-03 -1.22e-02 -1.69e-03 -5.90e-03  
## 3246 5.20e-03 5.74e-03 -2.24e-03 -1.16e-02 9.50e-03 -8.78e-03 -4.86e-04  
## 3247 -1.96e-02 1.49e-02 -3.23e-02 -2.12e-02 7.08e-03 -4.27e-04 9.10e-03  
## 3248 2.26e-03 7.32e-03 3.88e-04 -5.71e-03 -7.18e-03 -4.24e-03 -1.20e-02  
## 3249 2.41e-02 -1.35e-02 -9.08e-03 -3.93e-03 -1.99e-02 5.64e-03 -7.55e-03  
## 3250 1.11e-02 2.09e-02 4.16e-02 1.87e-02 -7.29e-03 1.76e-02 1.36e-02  
## 3251 3.84e-03 -4.68e-03 1.18e-02 1.70e-03 -9.03e-03 -3.65e-03 1.08e-04  
## 3252 -7.01e-03 -3.80e-03 -2.31e-04 2.63e-04 4.13e-03 -1.33e-03 5.87e-04  
## 3253 -4.67e-04 1.74e-02 -1.42e-02 1.08e-02 3.79e-03 1.55e-02 1.46e-02  
## 3254 -1.88e-02 1.28e-02 -7.72e-03 3.31e-03 4.32e-03 -2.63e-02 2.00e-02  
## 3255 -2.82e-02 -1.68e-02 -1.05e-02 6.54e-03 4.11e-03 -3.00e-03 2.20e-02  
## 3256 1.08e-02 -2.11e-02 1.32e-02 -1.36e-02 -4.71e-03 -2.02e-02 -2.58e-02  
## 3257 -6.57e-03 4.05e-03 -3.24e-04 -1.52e-04 4.25e-03 -5.66e-04 -7.42e-05  
## 3258 3.48e-03 2.00e-02 1.07e-02 7.26e-03 2.52e-02 -1.17e-02 6.97e-03  
## 3259 4.94e-04 -4.24e-03 -1.61e-03 -9.97e-04 -5.66e-03 3.35e-03 6.50e-03  
## 3260 1.01e-02 -1.69e-02 -1.35e-03 2.63e-02 -3.87e-02 1.47e-02 1.61e-02  
## 3261 2.69e-02 -1.67e-02 1.03e-02 1.11e-02 2.42e-02 -9.18e-03 -2.73e-02  
## 3262 -1.06e-04 4.22e-03 -1.79e-04 7.72e-05 3.65e-03 -1.07e-02 -2.27e-03  
## 3263 6.10e-06 2.44e-05 8.67e-07 -1.15e-05 -2.42e-05 4.44e-05 5.55e-06  
## 3264 2.69e-03 8.84e-03 -7.80e-04 -5.16e-03 -8.96e-03 -1.70e-03 -1.69e-02  
## 3265 1.53e-05 4.99e-05 -2.08e-05 6.03e-05 2.44e-05 1.40e-04 -7.10e-05  
## 3266 1.53e-02 -2.15e-02 -1.61e-02 9.07e-03 4.48e-03 2.49e-02 -1.79e-02  
## 3267 -5.19e-03 -9.04e-03 -1.43e-02 1.30e-02 -5.99e-03 -2.54e-03 7.02e-03  
## 3268 5.18e-03 -1.32e-02 9.22e-03 -4.59e-03 -3.48e-03 -9.49e-05 5.66e-03  
## 3269 4.83e-02 -1.83e-02 1.41e-02 -1.45e-02 -4.08e-03 -1.93e-02 -2.93e-02  
## 3270 1.69e-02 -1.25e-02 -8.82e-03 1.04e-02 1.49e-03 1.36e-02 1.14e-02  
## 3271 -4.67e-04 -2.49e-03 -4.39e-04 -4.86e-03 4.53e-03 -4.94e-03 6.20e-04  
## 3272 7.20e-03 1.15e-02 8.84e-03 -4.43e-03 -2.01e-03 -2.57e-03 -1.14e-02  
## 3273 1.64e-03 2.90e-03 5.39e-04 -2.66e-03 -2.56e-03 -3.84e-03 1.37e-04  
## 3274 2.55e-04 -3.28e-04 -4.26e-05 1.32e-06 -3.66e-04 -1.23e-04 -4.84e-04  
## 3275 -7.33e-04 2.40e-03 5.71e-04 -1.74e-03 -2.26e-03 -1.30e-03 2.88e-04  
## 3276 1.97e-03 -2.17e-03 8.80e-04 2.93e-03 -3.70e-03 -1.22e-03 -2.76e-04  
## 3277 -1.55e-02 9.15e-03 -8.30e-03 -1.24e-02 1.31e-02 -7.85e-03 1.53e-02  
## 3278 -1.71e-03 6.54e-03 -7.19e-03 -7.12e-03 8.01e-03 -4.89e-03 -9.76e-04  
## 3279 -7.67e-04 6.75e-04 1.08e-04 6.39e-05 6.95e-04 -2.06e-03 -1.59e-04  
## 3280 -1.84e-02 1.42e-02 -1.44e-02 1.39e-02 1.54e-03 1.07e-02 -3.63e-03  
## 3281 -4.32e-04 -3.91e-03 1.50e-03 4.51e-03 -5.84e-03 -1.31e-03 -6.72e-04  
## 3282 1.01e-02 -1.25e-02 -2.49e-02 -1.54e-02 6.35e-03 -4.51e-03 6.58e-03  
## 3283 -2.81e-05 -1.53e-02 5.88e-03 9.67e-03 1.80e-02 1.09e-03 4.96e-03  
## 3284 -6.54e-05 -1.98e-03 5.82e-04 -1.61e-03 -1.41e-03 -3.88e-03 5.85e-04  
## 3285 3.90e-03 -1.28e-02 -6.11e-03 2.66e-02 -3.09e-02 4.10e-03 -4.27e-03  
## 3286 -4.80e-03 -1.09e-02 -4.05e-03 3.57e-03 4.06e-03 -9.38e-03 1.47e-02  
## 3287 2.39e-03 -3.87e-03 4.90e-04 -2.79e-03 -4.07e-03 2.09e-03 -6.16e-04  
## 3288 1.41e-02 -1.60e-02 -1.12e-02 6.52e-03 4.97e-03 -1.35e-02 1.80e-02  
## 3289 1.93e-02 -1.45e-02 -9.04e-03 6.19e-03 4.31e-03 -6.33e-03 -3.58e-02  
## 3290 1.23e-02 1.39e-02 6.03e-03 1.34e-02 1.69e-02 3.97e-03 -1.61e-02  
## 3291 -5.64e-03 6.27e-03 -5.13e-04 -8.47e-04 6.24e-03 7.69e-04 8.08e-03  
## 3292 1.79e-03 -9.66e-03 -4.40e-03 5.83e-03 2.15e-03 2.14e-03 -4.21e-03  
## 3293 2.06e-03 -2.05e-03 -6.80e-04 -2.97e-03 3.40e-03 -1.47e-03 -3.68e-03  
## 3294 6.94e-03 -6.13e-03 -8.82e-04 1.70e-03 3.04e-03 -6.75e-03 -1.54e-03  
## 3295 1.88e-03 2.59e-03 -1.79e-03 3.60e-03 3.18e-04 -2.05e-03 5.03e-05  
## 3296 9.20e-04 -1.61e-03 1.43e-04 -9.21e-04 -1.39e-03 8.49e-04 2.34e-04  
## 3297 1.54e-02 1.14e-02 -2.48e-02 -6.75e-03 3.53e-03 3.99e-03 -1.17e-02  
## 3298 -3.30e-03 -1.67e-02 1.39e-02 -1.45e-02 -3.90e-03 -2.62e-03 1.01e-02  
## 3299 4.36e-03 1.36e-02 1.10e-02 -6.46e-03 -3.89e-03 5.61e-03 7.93e-03  
## 3300 -3.55e-03 4.73e-03 9.77e-03 -3.52e-03 3.56e-03 -7.30e-03 3.77e-04  
## 3301 -2.22e-02 1.56e-02 3.33e-02 2.03e-02 -7.39e-03 8.76e-03 -6.76e-03  
## 3302 8.70e-03 -1.49e-02 -4.89e-03 -1.57e-02 -1.88e-02 2.34e-03 1.71e-02  
## 3303 2.49e-04 -2.23e-03 6.50e-05 -5.78e-04 -2.15e-03 -9.51e-04 -3.31e-03  
## 3304 5.79e-04 -4.08e-03 -1.25e-03 -7.79e-03 7.36e-03 -8.47e-03 -5.67e-03  
## 3305 1.29e-03 -2.20e-03 -2.55e-04 1.36e-03 1.29e-03 -9.33e-04 8.88e-05  
## 3306 1.44e-02 1.15e-02 -2.61e-02 -7.16e-03 2.50e-03 -8.37e-04 -1.04e-02  
## 3307 3.04e-03 -7.57e-03 -5.06e-03 7.00e-03 2.42e-03 1.38e-02 1.10e-02  
## 3308 5.78e-03 5.94e-03 -8.69e-04 1.43e-03 3.33e-03 -8.58e-03 -1.70e-03  
## 3309 6.65e-03 5.55e-03 -7.64e-04 1.42e-03 3.03e-03 -9.13e-03 -1.82e-03  
## 3310 -1.52e-02 -9.05e-03 -5.35e-03 7.43e-03 2.57e-03 2.13e-03 1.34e-02  
## 3311 3.92e-03 6.29e-03 1.18e-02 -4.66e-03 3.79e-03 -5.63e-03 -1.87e-03  
## 3312 4.65e-03 -5.82e-03 -3.73e-03 -1.03e-02 9.88e-03 -4.30e-03 8.76e-03  
## 3313 -8.15e-04 -3.08e-03 1.17e-03 3.90e-03 -4.79e-03 -3.05e-03 -3.51e-04  
## 3314 3.13e-02 -1.81e-02 1.04e-02 -7.85e-03 -6.68e-03 1.31e-02 -2.96e-02  
## 3315 -2.67e-02 1.61e-02 6.22e-03 -6.31e-03 -6.77e-03 -1.05e-03 1.38e-02  
## 3316 1.04e-02 1.21e-02 2.59e-02 -1.81e-02 9.83e-03 -2.17e-03 -7.61e-03  
## 3317 2.10e-04 6.07e-04 2.99e-04 7.35e-04 -9.80e-04 -1.12e-03 6.45e-04  
## 3318 5.02e-03 8.93e-03 -1.82e-02 -7.26e-03 3.93e-03 -9.50e-04 6.24e-03  
## 3319 3.59e-03 -3.47e-03 7.30e-04 5.53e-03 -6.73e-03 3.41e-03 -3.19e-04  
## 3320 -2.00e-02 -1.80e-02 -1.08e-02 6.17e-03 4.35e-03 2.23e-03 1.95e-02  
## 3321 5.77e-03 -9.84e-03 8.61e-03 -4.05e-03 -1.44e-03 -1.72e-03 5.74e-03  
## 3322 -1.79e-02 -2.56e-02 -6.84e-02 -2.87e-02 2.46e-03 -1.32e-02 1.36e-02  
## 3323 -7.71e-03 5.10e-03 -6.16e-03 -5.83e-03 6.35e-03 -7.29e-04 9.53e-04  
## 3324 -2.37e-02 -1.92e-02 -1.34e-02 5.88e-03 4.35e-03 -4.11e-03 2.23e-02  
## 3325 1.10e-03 -9.52e-03 -4.72e-03 -1.82e-02 1.26e-02 1.72e-03 -2.80e-03  
## 3326 4.49e-03 -1.57e-02 -3.21e-02 -2.46e-02 9.65e-03 -1.15e-02 1.02e-02  
## 3327 2.88e-02 -1.84e-02 6.26e-03 -4.77e-03 -8.34e-03 1.47e-02 6.08e-03  
## 3328 6.68e-05 7.86e-04 4.29e-04 1.26e-03 -1.41e-03 -1.90e-03 1.44e-04  
## 3329 -1.36e-02 1.71e-02 1.75e-02 -1.75e-02 -2.28e-04 -9.09e-03 9.04e-03  
## 3330 9.10e-03 6.62e-03 -2.09e-03 3.02e-03 3.12e-03 -5.10e-03 -1.23e-02  
## 3331 6.61e-04 1.90e-03 -2.32e-04 5.36e-04 1.47e-03 -3.06e-03 -8.49e-04  
## 3332 -2.02e-02 -1.99e-02 -1.69e-02 8.91e-03 3.28e-03 -3.21e-03 -7.73e-03  
## 3333 -8.04e-03 1.49e-02 9.27e-03 -7.36e-03 -2.10e-03 -1.34e-02 -1.33e-02  
## 3334 -7.35e-03 5.20e-03 -4.12e-04 -5.16e-04 5.36e-03 2.78e-03 7.94e-03  
## 3335 2.35e-03 8.68e-03 -1.86e-02 -6.84e-03 2.99e-03 2.03e-03 6.98e-03  
## 3336 -1.23e-02 -7.87e-03 1.67e-02 8.06e-03 -1.89e-03 1.42e-02 -1.15e-03  
## 3337 1.14e-03 6.31e-03 -3.08e-03 5.81e-03 2.73e-03 2.31e-03 9.44e-03  
## 3338 2.37e-03 -2.75e-03 -2.42e-04 1.47e-03 1.68e-03 -3.88e-03 1.20e-05  
## 3339 1.79e-02 -1.23e-02 1.06e-02 -5.71e-03 -2.42e-03 -5.11e-04 5.31e-03  
## 3340 3.69e-05 -6.34e-03 -7.15e-03 -5.63e-03 6.66e-03 -2.67e-03 -8.39e-04  
## 3341 -9.86e-03 -2.32e-02 4.85e-02 1.69e-02 -9.69e-03 -7.77e-04 -1.86e-02  
## 3342 -3.51e-04 9.25e-04 2.49e-04 -7.04e-04 -7.10e-04 -1.09e-03 3.27e-04  
## 3343 -5.83e-03 -9.04e-03 1.61e-02 1.48e-02 -4.39e-03 -4.05e-03 -6.25e-04  
## 3344 -1.04e-02 9.11e-03 1.10e-02 1.72e-02 -1.12e-02 -4.86e-03 8.13e-03  
## 3345 1.45e-02 -1.78e-02 7.29e-03 -4.45e-03 -7.13e-03 1.65e-02 9.42e-03  
## 3346 -1.57e-02 2.38e-02 6.43e-03 -9.24e-03 -8.91e-03 -1.14e-02 1.27e-02  
## 3347 4.16e-03 8.47e-03 7.62e-03 -3.26e-03 -1.27e-03 -2.82e-03 5.42e-03  
## 3348 2.44e-03 1.93e-02 -1.92e-02 -3.44e-02 2.27e-02 1.66e-03 1.78e-02  
## 3349 -1.29e-03 -1.98e-03 -6.51e-04 2.04e-03 7.36e-04 2.64e-03 3.74e-03  
## 3350 -3.14e-04 -1.88e-04 -1.39e-04 -1.94e-04 2.42e-04 -1.62e-04 9.75e-05  
## 3351 8.35e-03 2.10e-02 3.89e-03 1.82e-02 2.24e-02 1.79e-02 3.55e-02  
## 3352 -1.10e-02 2.13e-02 -2.52e-03 -2.93e-02 4.46e-02 5.51e-03 1.35e-02  
## 3353 -6.74e-04 3.65e-03 -3.75e-04 2.09e-03 1.71e-03 4.17e-03 -1.16e-03  
## 3354 7.95e-03 5.78e-03 -1.88e-03 2.92e-03 2.68e-03 1.75e-03 -1.79e-03  
## 3355 4.48e-03 -1.36e-02 1.01e-02 -7.40e-03 -3.17e-03 -8.29e-03 -1.19e-02  
## 3356 2.61e-03 -2.63e-03 5.87e-03 3.78e-03 -1.08e-03 3.64e-03 -4.88e-03  
## 3357 -2.45e-02 2.01e-02 6.82e-03 -6.16e-03 -9.85e-03 1.25e-02 1.33e-02  
## 3358 9.28e-04 3.05e-03 -1.91e-03 -3.82e-03 4.45e-03 3.62e-04 4.75e-03  
## 3359 -2.37e-02 1.28e-02 1.50e-02 2.28e-02 -1.68e-02 -6.91e-03 1.10e-02  
## 3360 -1.23e-03 1.70e-03 8.68e-05 8.81e-04 1.36e-03 -2.20e-03 3.27e-04  
## 3361 -8.55e-03 1.43e-02 -1.39e-02 -2.30e-02 1.89e-02 -1.55e-03 1.70e-02  
## 3362 1.33e-03 1.17e-03 -2.39e-04 1.27e-03 5.89e-04 -2.26e-05 -2.13e-03  
## 3363 -5.03e-03 -1.12e-02 -9.94e-03 1.19e-02 1.25e-03 -7.44e-04 -2.55e-03  
## 3364 5.65e-03 -1.31e-02 3.25e-02 1.04e-02 -2.72e-03 -5.74e-03 -2.84e-02  
## 3365 9.47e-03 -4.95e-03 -2.59e-03 -1.03e-03 -6.67e-03 7.91e-03 6.96e-03  
## 3366 -5.54e-02 2.65e-02 7.12e-04 2.34e-02 2.69e-02 2.06e-02 7.42e-03  
## 3367 5.57e-03 1.08e-02 2.14e-02 1.57e-02 -5.66e-03 2.20e-03 -4.29e-03  
## 3368 1.16e-02 9.20e-03 -1.88e-02 -5.93e-03 3.21e-03 1.65e-03 4.93e-03  
## 3369 -5.06e-03 2.10e-02 -5.69e-02 -1.22e-02 5.68e-04 8.29e-03 1.32e-02  
## 3370 -2.09e-04 4.08e-03 -1.96e-04 1.30e-04 3.52e-03 -1.02e-02 -2.13e-03  
## 3371 1.55e-02 -7.11e-03 9.81e-05 -7.22e-03 -7.13e-03 -1.20e-02 -2.26e-03  
## 3372 3.12e-04 -1.41e-03 7.54e-04 1.65e-03 -2.34e-03 -2.87e-03 1.58e-03  
## 3373 -1.29e-03 -5.44e-03 1.71e-03 6.11e-03 -8.96e-03 -2.79e-03 -5.22e-04  
## 3374 7.27e-03 -6.11e-03 -7.84e-04 1.54e-03 3.08e-03 -7.94e-03 -1.78e-03  
## 3375 -1.00e-03 -6.01e-03 -1.00e-02 9.64e-03 -4.07e-03 -6.40e-04 5.10e-03  
## 3376 6.47e-03 -3.33e-03 -6.42e-04 3.33e-03 1.29e-03 1.05e-03 -1.53e-03  
## 3377 3.61e-04 -2.56e-03 2.00e-04 -2.33e-05 2.40e-03 -6.02e-03 2.73e-03  
## 3378 1.12e-02 -1.19e-02 1.28e-02 2.33e-02 -1.47e-02 4.73e-03 4.38e-03  
## 3379 1.51e-03 1.49e-02 6.76e-03 1.29e-02 1.89e-02 2.73e-03 -1.52e-02  
## 3380 1.81e-03 -9.62e-03 8.71e-03 -5.34e-03 -1.43e-03 -5.32e-03 6.22e-03  
## 3381 1.43e-03 -1.91e-03 -1.14e-03 -2.51e-03 2.64e-03 1.53e-03 -3.17e-03  
## 3382 6.43e-03 -6.00e-03 -9.71e-04 1.90e-03 2.92e-03 -5.03e-03 -1.27e-03  
## 3383 5.60e-04 -2.09e-03 -1.50e-03 -2.40e-03 2.43e-03 4.66e-03 -1.87e-04  
## 3384 -3.25e-02 1.88e-02 -1.36e-02 5.28e-03 5.01e-03 -3.60e-04 2.26e-02  
## 3385 -1.76e-04 -4.98e-04 2.50e-04 7.09e-04 -8.09e-04 -1.04e-03 -1.04e-04  
## 3386 5.50e-03 5.38e-03 -7.87e-04 1.51e-03 3.02e-03 -6.50e-03 -1.78e-03  
## 3387 -5.82e-03 -4.40e-03 -9.01e-04 -1.03e-03 -4.52e-03 7.04e-03 7.13e-04  
## 3388 -5.18e-03 5.48e-03 -4.96e-03 -5.93e-03 6.83e-03 -1.02e-02 1.84e-03  
## 3389 -3.04e-03 6.00e-03 -1.92e-03 4.04e-03 3.19e-03 -1.23e-03 -9.81e-03  
## 3390 -1.16e-03 4.10e-03 -3.60e-03 5.36e-03 3.94e-04 2.78e-03 1.05e-05  
## 3391 -1.02e-03 -3.83e-03 -1.46e-03 -2.35e-04 -4.64e-03 -1.06e-03 6.42e-03  
## 3392 -2.95e-03 2.06e-03 1.11e-03 2.21e-03 -3.09e-03 1.35e-03 3.18e-03  
## 3393 3.03e-03 -5.18e-03 -3.32e-03 2.56e-04 -7.29e-03 -1.87e-03 2.91e-04  
## 3394 2.82e-03 -5.57e-03 -1.42e-03 5.54e-03 2.22e-03 -2.98e-03 -1.03e-02  
## 3395 -1.71e-02 1.71e-02 -1.35e-02 1.12e-02 3.78e-03 1.56e-04 -6.79e-03  
## 3396 -1.44e-04 4.49e-04 9.87e-05 -4.87e-04 -2.76e-04 -6.39e-04 -1.23e-04  
## 3397 -4.72e-03 9.66e-03 9.44e-03 -4.55e-03 -1.89e-03 -3.33e-03 8.17e-03  
## 3398 8.35e-03 -5.51e-03 -9.06e-04 1.82e-03 2.73e-03 -8.35e-03 -1.34e-03  
## 3399 -5.42e-04 -1.68e-03 4.14e-04 3.16e-03 -3.35e-03 2.89e-04 5.82e-05  
## 3400 8.24e-04 -4.74e-03 -2.53e-03 -2.20e-04 -6.94e-03 3.91e-03 1.28e-03  
## 3401 2.67e-04 -2.47e-03 -3.34e-04 1.55e-03 1.38e-03 1.14e-03 2.73e-04  
## 3402 1.29e-04 -4.10e-04 1.01e-03 -3.88e-04 4.61e-04 8.55e-04 1.12e-04  
## 3403 2.23e-03 2.17e-02 7.52e-03 -7.10e-03 -8.95e-03 1.53e-02 9.06e-03  
## 3404 1.02e-03 -2.70e-03 5.89e-03 -1.88e-03 2.18e-03 -3.51e-03 -8.66e-06  
## 3405 7.07e-03 -1.90e-02 5.93e-03 -6.64e-03 -8.76e-03 1.48e-02 1.15e-02  
## 3406 4.27e-03 -1.71e-02 -2.78e-02 1.72e-02 -9.32e-03 5.90e-04 5.06e-03  
## 3407 -9.06e-04 3.74e-03 1.63e-03 -3.68e-03 -2.34e-03 -5.86e-03 -3.42e-04  
## 3408 3.21e-03 -1.60e-02 -9.16e-03 -7.93e-03 -2.17e-02 4.92e-03 1.73e-02  
## 3409 -2.39e-03 -1.30e-03 -1.63e-04 1.11e-03 6.95e-04 1.09e-03 2.64e-03  
## 3410 4.10e-02 2.73e-02 1.58e-02 -1.15e-03 3.38e-02 -4.19e-03 -6.76e-03  
## 3411 1.48e-02 1.21e-02 1.15e-03 1.96e-02 -2.65e-02 7.17e-03 -8.91e-03  
## 3412 7.61e-03 -6.93e-03 3.16e-04 -6.59e-03 -7.63e-03 -4.11e-03 -2.27e-03  
## 3413 6.72e-03 7.69e-03 -8.43e-03 -9.09e-03 8.94e-03 5.40e-04 -2.59e-03  
## 3414 -3.38e-03 1.42e-03 -4.17e-04 -8.37e-05 -1.79e-03 -6.25e-04 3.42e-03  
## 3415 1.95e-02 -8.65e-03 -5.05e-03 7.15e-03 3.38e-03 1.54e-03 -2.09e-02  
## 3416 5.50e-04 1.24e-03 1.03e-03 1.26e-03 -1.71e-03 1.71e-03 -7.10e-04  
## 3417 -1.55e-05 1.53e-04 5.05e-05 -2.06e-04 -6.07e-05 -1.31e-04 -2.80e-04  
## 3418 9.61e-03 -2.15e-02 -6.25e-03 -3.16e-02 4.71e-02 1.07e-02 7.76e-03  
## 3419 4.39e-03 -1.12e-02 8.69e-03 -5.33e-03 -2.33e-03 -7.49e-03 -9.61e-03  
## 3420 -1.96e-02 -1.23e-02 -5.27e-03 -6.62e-03 -1.50e-02 -8.91e-03 2.06e-02  
## 3421 1.88e-02 -1.28e-02 9.07e-03 -3.78e-03 -3.28e-03 3.03e-03 -1.47e-02  
## 3422 5.16e-03 -1.99e-02 -2.40e-02 -3.48e-02 2.37e-02 6.86e-03 -1.19e-02  
## 3423 -1.08e-02 -2.09e-02 -3.64e-02 1.93e-02 -1.24e-02 -1.46e-03 8.43e-03  
## 3424 -1.12e-03 1.15e-03 2.05e-06 3.21e-04 1.10e-03 -1.92e-03 -2.56e-04  
## 3425 -3.28e-03 3.74e-03 -5.94e-04 8.83e-03 -8.97e-03 1.82e-03 6.36e-03  
## 3426 -6.18e-03 -1.23e-02 1.47e-02 1.99e-02 -1.38e-02 -5.88e-03 7.79e-03  
## 3427 -3.28e-03 2.36e-03 1.38e-03 2.42e-03 -3.49e-03 2.46e-03 3.24e-03  
## 3428 2.51e-03 6.40e-03 -5.27e-03 8.49e-03 1.14e-03 -1.22e-03 -1.84e-03  
## 3429 3.14e-05 -6.56e-03 -7.51e-05 2.48e-03 3.72e-03 -3.25e-03 -1.77e-03  
## 3430 -2.58e-02 1.89e-02 -1.37e-02 6.17e-03 4.41e-03 -6.93e-03 2.27e-02  
## 3431 3.69e-03 3.46e-03 -7.19e-04 2.09e-03 1.85e-03 -2.33e-03 -3.17e-04  
## 3432 -3.66e-03 -7.02e-03 -3.96e-03 6.23e-03 2.35e-03 3.65e-04 -1.11e-02  
## 3433 -4.91e-04 -1.12e-02 1.28e-02 1.92e-02 -1.30e-02 -3.31e-03 6.67e-03  
## 3434 2.61e-02 -2.56e-02 -4.72e-02 1.54e-02 -1.78e-02 5.27e-02 -2.57e-03  
## 3435 -5.89e-03 3.21e-03 1.73e-04 -4.58e-04 3.59e-03 9.20e-04 4.93e-03  
## 3436 2.97e-03 -3.79e-03 -2.95e-04 -1.89e-03 -3.82e-03 1.29e-03 -7.08e-04  
## 3437 1.07e-02 1.43e-02 -9.37e-03 1.08e-02 1.73e-03 1.44e-02 1.23e-02  
## 3438 6.01e-03 7.98e-03 1.66e-02 -8.92e-03 6.67e-03 -2.63e-03 8.43e-03  
## 3439 -8.46e-03 5.11e-03 -3.44e-03 -8.92e-03 8.28e-03 1.72e-03 1.00e-02  
## 3440 4.48e-03 -1.03e-02 -1.01e-02 -1.49e-02 1.36e-02 -7.57e-04 -2.90e-03  
## 3441 4.72e-03 -6.85e-03 -5.67e-03 9.11e-03 1.14e-03 -2.12e-03 -2.10e-03  
## 3442 -2.31e-02 1.00e-02 -7.81e-03 9.27e-03 2.92e-03 -2.35e-03 1.67e-03  
## 3443 -1.27e-02 -2.14e-02 -6.02e-04 2.14e-02 2.46e-02 9.30e-03 8.94e-03  
## 3444 -4.96e-04 -9.46e-03 -5.92e-03 -8.96e-04 -1.22e-02 -4.02e-03 -1.36e-04  
## 3445 -4.80e-03 7.93e-03 1.42e-02 -5.74e-03 4.85e-03 -5.65e-03 -1.03e-03  
## 3446 -2.29e-02 7.64e-03 1.51e-02 -7.34e-03 5.40e-03 2.60e-03 1.57e-02  
## 3447 -1.04e-02 1.21e-02 -5.06e-03 3.04e-03 4.80e-03 -1.09e-02 -5.97e-03  
## 3448 -5.55e-03 -8.26e-03 -8.90e-03 -7.30e-03 8.08e-03 -3.35e-03 2.34e-05  
## 3449 -1.02e-04 -1.24e-02 2.77e-02 -3.94e-03 -2.06e-02 4.72e-03 1.58e-02  
## 3450 2.66e-03 -9.36e-03 6.97e-03 -3.26e-03 -2.19e-03 -5.31e-03 -7.37e-03  
## 3451 -1.80e-04 4.80e-04 1.12e-04 -6.14e-04 -1.79e-04 -1.29e-04 7.12e-04  
## 3452 1.37e-02 -7.74e-03 -1.72e-03 1.90e-03 3.62e-03 -1.14e-02 -3.07e-03  
## 3453 6.86e-04 1.46e-02 1.23e-02 -1.12e-02 -1.59e-03 -6.73e-03 -1.53e-02  
## 3454 2.52e-03 -3.52e-03 8.49e-05 -1.97e-03 -3.01e-03 -3.05e-03 -4.73e-03  
## 3455 8.43e-03 -1.05e-02 -9.97e-03 -1.42e-02 1.10e-02 6.19e-03 1.26e-02  
## 3456 1.09e-04 -4.59e-04 -8.36e-05 -1.18e-04 -5.03e-04 7.75e-04 1.39e-05  
## 3457 8.15e-03 -1.01e-02 9.01e-03 -4.45e-03 -1.49e-03 -3.93e-03 5.86e-03  
## 3458 -6.43e-03 1.39e-02 -1.18e-02 1.25e-02 2.47e-03 9.25e-03 -3.43e-03  
## 3459 3.83e-03 -1.30e-02 -1.54e-02 -2.23e-02 1.59e-02 1.14e-03 1.61e-02  
## 3460 -8.92e-03 1.19e-02 -5.22e-03 3.70e-03 4.36e-03 -1.06e-02 -4.98e-03  
## 3461 -4.66e-04 -1.02e-03 1.71e-04 -7.02e-06 9.80e-04 -2.34e-03 1.20e-03  
## 3462 4.67e-03 -8.24e-03 -1.71e-02 -5.73e-03 2.62e-03 -4.27e-03 -6.38e-03  
## 3463 7.51e-03 5.05e-03 5.39e-04 -5.57e-03 -5.05e-03 -8.75e-03 -1.19e-03  
## 3464 -1.15e-02 -2.18e-02 4.54e-02 1.87e-02 -8.50e-03 1.24e-02 2.01e-02  
## 3465 6.00e-03 9.46e-03 -1.02e-03 -8.39e-03 -1.03e-02 -7.60e-03 -3.03e-03  
## 3466 1.52e-04 -2.19e-03 -3.35e-04 1.48e-03 1.21e-03 1.81e-03 2.89e-04  
## 3467 -1.26e-03 -1.22e-02 2.21e-02 1.75e-02 -6.13e-03 5.98e-03 -4.88e-03  
## 3468 -2.10e-02 -1.93e-02 2.05e-02 2.62e-02 -2.00e-02 -1.45e-03 7.99e-03  
## 3469 -3.54e-03 6.66e-03 1.51e-02 1.79e-03 -1.36e-02 4.02e-03 4.08e-04  
## 3470 3.54e-03 -4.27e-03 9.30e-04 -4.15e-03 -3.49e-03 -9.34e-03 9.99e-05  
## 3471 -9.84e-03 8.78e-03 1.63e-02 -6.95e-03 5.86e-03 -6.24e-03 7.63e-04  
## 3472 -1.99e-02 -1.81e-02 -1.55e-02 1.06e-02 2.34e-03 2.46e-03 -5.92e-03  
## 3473 1.68e-02 -1.03e-02 -4.38e-03 8.34e-03 4.27e-03 -1.24e-03 -2.44e-02  
## 3474 1.18e-02 2.03e-02 7.67e-03 -5.52e-03 -6.40e-03 1.27e-02 7.80e-03  
## 3475 1.68e-03 -3.10e-03 1.33e-03 3.79e-03 -5.38e-03 -7.97e-03 -1.49e-03  
## 3476 -8.79e-03 -1.35e-02 -5.69e-03 4.75e-03 4.31e-03 -1.09e-02 -2.46e-02  
## 3477 -4.82e-03 9.57e-03 -4.72e-03 5.29e-03 2.90e-03 -3.45e-03 -3.28e-03  
## 3478 -7.24e-03 -1.34e-02 -8.84e-03 7.65e-03 3.27e-03 8.97e-03 1.38e-02  
## 3479 -3.45e-03 -1.32e-02 2.55e-02 -1.69e-02 8.62e-03 8.43e-03 1.60e-02  
## 3480 1.03e-02 -1.21e-02 9.65e-03 -4.50e-03 -2.47e-03 5.76e-03 6.43e-03  
## 3481 -5.92e-03 7.37e-03 -4.75e-03 7.76e-03 2.49e-03 -3.02e-03 1.22e-04  
## 3482 -4.82e-04 2.44e-03 -3.12e-04 6.70e-04 2.04e-03 -1.93e-03 -1.11e-03  
## 3483 -7.19e-03 1.31e-02 -7.01e-03 5.99e-03 4.25e-03 -1.23e-03 -2.91e-02  
## 3484 2.47e-02 -6.62e-03 -3.98e-03 -1.24e-02 1.15e-02 -1.16e-03 -1.74e-02  
## 3485 -6.94e-03 -1.92e-02 4.19e-03 1.84e-02 2.46e-02 1.27e-02 9.29e-03  
## 3486 2.63e-03 3.33e-03 -1.73e-03 -5.20e-03 5.06e-03 1.31e-03 -8.97e-04  
## 3487 -1.34e-02 -1.24e-02 -5.70e-03 3.03e-03 4.57e-03 -1.52e-02 1.69e-02  
## 3488 -4.53e-03 1.23e-02 -5.34e-03 3.88e-03 4.16e-03 -1.63e-02 -4.80e-03  
## 3489 -4.03e-03 1.13e-02 7.34e-03 8.63e-03 1.55e-02 4.38e-03 5.42e-03  
## 3490 1.22e-02 -9.35e-03 -1.92e-02 -5.99e-03 3.09e-03 3.72e-03 5.31e-03  
## 3491 -1.29e-02 1.08e-02 -6.30e-03 7.21e-03 2.93e-03 2.36e-03 1.50e-02  
## 3492 -2.24e-02 -2.03e-02 3.99e-02 -3.66e-02 1.52e-02 -1.27e-02 2.18e-02  
## 3493 2.97e-02 -2.14e-02 1.64e-02 -1.94e-02 -3.92e-03 -2.53e-02 -3.33e-02  
## 3494 -2.92e-02 2.61e-02 3.67e-03 -6.33e-03 -1.31e-02 3.49e-02 6.04e-03  
## 3495 -3.60e-03 -8.69e-03 -1.00e-02 -9.86e-03 9.51e-03 -3.11e-03 -3.48e-04  
## 3496 -1.27e-04 3.68e-04 -1.91e-05 3.58e-05 3.58e-04 -4.44e-05 4.79e-04  
## 3497 -1.71e-04 7.63e-03 -4.30e-03 7.54e-03 2.81e-03 5.63e-03 1.11e-02  
## 3498 -3.50e-03 5.80e-03 -4.62e-03 7.72e-03 7.87e-04 -6.86e-04 -2.30e-05  
## 3499 6.69e-04 -3.83e-03 -2.31e-04 3.35e-04 3.35e-03 -8.74e-03 -2.01e-03  
## 3500 -1.93e-02 1.22e-02 -7.92e-03 4.54e-03 3.88e-03 -1.57e-02 2.00e-02  
## 3501 4.26e-04 1.58e-02 -1.22e-02 1.02e-02 2.99e-03 6.69e-03 -7.82e-03  
## 3502 5.44e-03 5.55e-03 -8.55e-04 1.56e-03 3.09e-03 -6.59e-03 -1.65e-03  
## 3503 1.57e-04 -2.55e-04 -1.47e-04 4.00e-04 6.52e-05 -4.03e-04 2.35e-05  
## 3504 -1.04e-02 1.21e-02 -5.05e-03 3.03e-03 4.80e-03 -1.09e-02 -5.99e-03  
## 3505 -2.01e-02 -1.98e-02 -1.69e-02 9.12e-03 3.24e-03 -1.32e-03 -7.69e-03  
## 3506 -2.16e-04 2.98e-04 -6.65e-05 3.12e-04 2.05e-04 4.40e-04 -3.90e-04  
## 3507 1.20e-03 2.76e-03 7.01e-03 3.62e-03 -1.24e-04 3.48e-03 -4.30e-03  
## 3508 7.02e-03 3.91e-03 1.19e-04 -3.36e-03 -3.94e-03 -5.31e-03 -4.71e-04  
## 3509 -5.90e-04 3.69e-03 -1.04e-03 3.53e-05 -4.56e-03 -4.05e-03 7.55e-04  
## 3510 6.69e-03 8.37e-03 -3.13e-03 4.05e-03 3.39e-03 1.17e-04 -3.88e-03  
## 3511 1.10e-02 -1.87e-02 7.64e-03 -5.52e-03 -7.18e-03 1.88e-02 1.02e-02  
## 3512 -3.31e-02 -3.27e-02 2.57e-02 3.19e-02 -3.89e-02 1.60e-02 -4.78e-02  
## 3513 5.86e-03 5.74e-03 -7.89e-04 1.38e-03 3.24e-03 -8.45e-03 -1.86e-03  
## 3514 -2.31e-02 1.50e-02 3.13e-02 2.02e-02 -7.33e-03 9.78e-03 -5.04e-03  
## 3515 6.64e-03 -4.98e-03 -2.14e-03 -9.60e-03 7.55e-03 -1.72e-03 -9.07e-04  
## 3516 5.66e-04 1.51e-03 7.06e-05 3.33e-04 1.46e-03 -1.87e-03 -2.03e-04  
## 3517 3.20e-04 4.43e-04 3.00e-05 -2.40e-04 -4.15e-04 2.24e-04 6.69e-05  
## 3518 -3.00e-04 1.51e-03 1.06e-03 1.42e-03 -2.12e-03 2.12e-03 -2.63e-04  
## 3519 4.06e-03 9.28e-03 -1.90e-02 -8.13e-03 4.32e-03 1.73e-04 6.26e-03  
## 3520 -4.70e-03 1.93e-02 -3.09e-02 1.86e-02 -1.04e-02 -3.42e-03 7.62e-03  
## 3521 1.48e-02 -1.81e-02 -5.07e-02 -1.28e-02 3.41e-03 1.14e-02 1.15e-02  
## 3522 5.48e-03 -1.23e-02 1.24e-02 2.33e-02 -1.45e-02 1.11e-02 5.31e-03  
## 3523 -3.56e-02 -2.49e-02 7.48e-03 -1.09e-02 -1.18e-02 4.71e-03 8.52e-03  
## 3524 -1.34e-02 2.01e-02 3.92e-02 -3.56e-02 1.50e-02 -7.03e-03 1.78e-02  
## 3525 1.80e-02 -1.25e-02 -4.61e-03 6.61e-03 3.57e-03 8.47e-03 -2.84e-02  
## 3526 2.05e-03 -2.91e-03 -2.14e-04 1.47e-03 1.78e-03 -3.45e-03 -8.61e-05  
## 3527 -1.42e-02 2.04e-02 9.79e-03 -1.04e-02 -4.29e-03 -4.56e-03 1.36e-02  
## 3528 5.17e-03 -5.65e-03 -7.56e-04 2.15e-03 3.29e-03 -7.92e-03 -7.84e-04  
## 3529 -2.59e-02 2.43e-02 7.60e-04 -5.60e-02 5.90e-02 7.75e-04 -3.68e-02  
## 3530 -8.98e-05 3.75e-03 -1.55e-03 2.23e-04 -4.82e-03 -4.20e-03 3.60e-04  
## 3531 -6.13e-03 -1.97e-02 -1.70e-02 6.99e-03 5.10e-03 1.63e-03 -1.28e-02  
## 3532 -2.58e-03 4.39e-03 -1.60e-04 -3.22e-03 -4.75e-03 -6.28e-04 -1.11e-03  
## 3533 3.70e-03 -4.02e-03 2.87e-04 -3.58e-04 4.47e-03 3.57e-03 -8.58e-03  
## 3534 1.81e-02 -1.83e-02 8.30e-03 -6.51e-03 -6.90e-03 1.00e-02 7.85e-03  
## 3535 -1.49e-03 2.06e-03 4.23e-04 -3.57e-04 2.55e-03 2.56e-03 -3.73e-03  
## 3536 -1.82e-03 -6.36e-03 -5.16e-03 -8.96e-03 8.56e-03 7.63e-03 1.11e-02  
## 3537 7.78e-03 5.44e-03 -6.16e-04 -3.00e-03 -5.50e-03 -1.26e-03 7.45e-03  
## 3538 1.35e-03 -2.37e-03 1.69e-03 2.16e-03 -3.05e-03 3.25e-03 -1.01e-03  
## 3539 -1.04e-03 -1.80e-02 1.97e-02 2.86e-02 -2.30e-02 -6.14e-03 9.05e-03  
## 3540 -9.42e-03 -1.54e-02 -1.50e-02 1.61e-02 -3.96e-04 1.05e-02 -3.12e-03  
## 3541 -3.01e-04 -3.62e-03 1.48e-03 3.85e-03 -5.67e-03 7.90e-04 5.47e-03  
## 3542 -2.00e-03 -2.89e-03 -7.03e-03 2.05e-03 -2.81e-03 1.73e-03 4.53e-03  
## 3543 -3.36e-03 1.96e-03 -1.26e-03 2.75e-03 2.91e-04 5.47e-04 9.93e-04  
## 3544 -1.94e-03 -4.75e-03 -4.79e-04 5.83e-04 4.56e-03 -3.85e-04 -1.54e-03  
## 3545 4.99e-03 -1.71e-02 1.19e-02 -1.29e-02 -2.30e-03 -1.61e-02 -2.06e-02  
## 3546 4.97e-03 1.19e-02 3.21e-03 -1.73e-02 2.80e-02 -2.43e-03 -1.18e-02  
## 3547 -2.21e-03 2.37e-03 -1.79e-03 3.38e-03 4.87e-04 -3.49e-03 8.17e-04  
## 3548 2.41e-04 -1.46e-03 3.73e-04 -1.71e-03 -9.01e-04 -2.37e-03 1.84e-03  
## 3549 -2.12e-02 -1.84e-02 -4.42e-03 2.67e-02 -4.14e-02 1.01e-03 2.28e-02  
## 3550 1.15e-02 -1.26e-02 1.14e-02 -8.27e-03 -2.26e-03 -4.50e-03 5.61e-03  
## 3551 2.16e-03 3.31e-03 7.38e-04 -3.34e-03 -2.85e-03 -6.71e-03 -2.47e-05  
## 3552 2.31e-02 -1.07e-02 2.54e-02 1.31e-02 -3.25e-03 6.62e-03 1.07e-02  
## 3553 -1.12e-02 1.41e-02 -6.88e-03 -6.23e-03 -1.73e-02 -9.45e-03 -3.63e-03  
## 3554 -2.86e-04 6.89e-04 1.16e-06 4.45e-04 5.11e-04 -6.02e-04 1.57e-04  
## 3555 -1.42e-02 9.41e-03 -3.22e-03 3.25e-03 4.25e-03 -4.19e-03 -3.78e-03  
## 3556 1.62e-02 -1.70e-02 1.26e-02 -1.11e-02 -2.49e-03 -1.04e-02 4.13e-03  
## 3557 2.23e-04 -9.66e-03 -1.80e-02 -6.62e-03 3.17e-03 -1.47e-03 7.71e-03  
## 3558 -4.04e-03 1.76e-02 3.37e-02 1.87e-02 -7.17e-03 7.49e-03 -7.97e-03  
## 3559 -1.31e-02 5.90e-03 -5.49e-03 7.97e-03 8.36e-04 -8.65e-04 1.62e-03  
## 3560 -1.18e-03 -1.94e-02 8.36e-03 -4.96e-03 -7.92e-03 1.59e-02 1.08e-02  
## 3561 6.35e-03 -3.89e-03 1.13e-04 8.30e-03 -8.47e-03 2.45e-03 -7.28e-03  
## 3562 -1.98e-02 1.57e-02 6.83e-03 1.35e-02 2.19e-02 -8.24e-03 -1.72e-02  
## 3563 2.15e-02 -1.41e-02 -1.03e-02 9.87e-03 3.06e-03 1.33e-02 1.30e-02  
## 3564 2.08e-04 3.24e-03 -2.55e-04 1.54e-03 2.17e-03 -2.32e-03 -5.11e-05  
## 3565 -4.19e-04 1.46e-03 4.41e-04 -1.24e-03 -1.09e-03 -2.62e-03 4.34e-04  
## 3566 2.97e-03 -1.06e-02 -5.92e-03 7.95e-03 1.41e-03 1.16e-02 -4.09e-03  
## 3567 -2.12e-02 -1.73e-02 3.38e-02 1.74e-02 -7.94e-03 9.25e-03 1.95e-02  
## 3568 9.94e-03 -3.89e-03 -4.70e-04 -2.47e-03 -4.37e-03 4.28e-04 -7.64e-04  
## 3569 1.37e-02 -7.94e-03 -1.83e-03 1.95e-03 3.68e-03 -1.15e-02 -2.86e-03  
## 3570 -3.22e-03 7.53e-03 -5.55e-03 8.43e-03 1.22e-03 1.99e-02 1.31e-02  
## 3571 9.88e-05 -5.62e-05 -1.60e-05 1.05e-06 -6.25e-05 1.66e-04 -8.13e-05  
## 3572 3.78e-03 -2.59e-02 7.50e-03 -1.87e-02 -1.08e-02 -1.45e-02 6.73e-03  
## 3573 1.98e-03 -4.93e-03 -1.71e-03 3.95e-03 2.04e-03 7.41e-03 -1.63e-03  
## 3574 -9.76e-03 1.18e-02 -9.46e-03 -4.59e-03 -1.89e-02 5.98e-03 -1.34e-03  
## 3575 -4.14e-02 2.06e-02 -4.07e-03 -3.03e-02 4.41e-02 -1.58e-02 1.92e-02  
## 3576 -2.27e-03 -5.87e-03 -1.43e-03 5.06e-04 5.29e-03 -1.65e-03 -9.77e-04  
## 3577 -1.44e-02 -2.06e-02 -1.47e-02 7.59e-03 5.32e-03 4.83e-03 2.11e-02  
## 3578 1.21e-03 5.26e-03 -8.30e-04 -2.62e-03 -6.10e-03 3.73e-03 8.64e-03  
## 3579 -1.12e-02 1.68e-02 -1.41e-02 -3.28e-02 2.23e-02 8.41e-04 1.95e-02  
## 3580 -1.36e-02 9.48e-03 2.24e-02 -1.30e-02 9.22e-03 1.39e-03 1.43e-02  
## 3581 1.66e-03 -2.29e-02 5.00e-03 -6.80e-03 -1.03e-02 1.21e-02 -3.20e-02  
## 3582 -5.81e-03 -9.21e-03 -1.67e-02 -7.11e-03 2.84e-03 -2.83e-03 8.40e-03  
## 3583 2.92e-02 1.48e-02 -1.22e-02 -2.64e-02 1.84e-02 -7.00e-03 -3.46e-02  
## 3584 1.54e-03 8.66e-03 -3.29e-03 -4.53e-03 -1.17e-02 7.40e-04 -1.67e-02  
## 3585 2.19e-03 -1.51e-03 -8.93e-04 -2.29e-03 2.42e-03 2.12e-03 1.26e-04  
## 3586 -1.45e-02 1.47e-02 7.75e-03 -4.86e-03 -6.21e-03 -1.07e-02 -1.69e-02  
## 3587 7.92e-03 1.96e-02 7.53e-03 -5.09e-03 -6.28e-03 1.90e-02 7.85e-03  
## 3588 2.42e-02 -1.32e-02 9.96e-03 -5.05e-03 -3.27e-03 -2.74e-03 -1.67e-02  
## 3589 -6.51e-03 -1.32e-02 -7.61e-03 5.07e-03 4.01e-03 -8.58e-03 1.78e-02  
## 3590 1.24e-02 1.14e-02 -2.56e-02 -7.69e-03 3.96e-03 7.76e-03 -1.26e-02  
## 3591 -1.25e-02 2.23e-02 5.50e-03 -7.32e-03 -1.16e-02 9.35e-03 1.13e-02  
## 3592 5.58e-03 1.64e-02 -1.44e-02 -2.78e-02 1.93e-02 9.81e-03 1.73e-02  
## 3593 -1.84e-02 1.21e-02 3.36e-02 7.16e-03 -1.82e-03 -1.36e-02 -5.30e-03  
## 3594 5.75e-03 -2.58e-03 -2.21e-04 -8.36e-04 -2.89e-03 3.56e-03 -4.88e-03  
## 3595 5.52e-03 -1.90e-02 -4.34e-02 -1.70e-03 4.07e-02 -1.51e-02 6.27e-03  
## 3596 5.41e-04 -3.71e-04 -4.95e-05 -1.06e-04 -3.94e-04 9.82e-04 1.90e-05  
## 3597 1.14e-02 -5.73e-03 -3.63e-03 5.62e-03 1.49e-03 3.59e-03 -1.22e-02  
## 3598 2.88e-02 -1.86e-02 6.32e-03 -5.07e-03 -8.42e-03 1.37e-02 6.40e-03  
## 3599 2.44e-03 1.79e-03 -1.16e-04 -1.05e-03 -1.97e-03 2.80e-03 -1.14e-04  
## 3600 -2.39e-03 7.16e-03 -4.08e-03 5.22e-03 2.35e-03 6.90e-03 -2.57e-03  
## 3601 -8.10e-03 -9.17e-03 -1.02e-02 -8.06e-03 8.79e-03 -3.47e-03 1.54e-03  
## 3602 -2.98e-03 -4.93e-03 3.43e-04 1.96e-03 2.92e-03 -1.55e-03 -5.98e-04  
## 3603 4.52e-02 -1.77e-02 1.67e-02 -1.69e-02 -2.37e-03 -1.31e-02 -3.60e-04  
## 3604 -1.89e-03 -9.07e-03 -8.09e-03 1.15e-02 6.46e-04 -2.50e-03 -1.59e-03  
## 3605 -1.14e-02 9.54e-03 9.47e-03 -6.79e-03 -8.91e-04 -4.17e-03 8.63e-03  
## 3606 -8.39e-03 8.58e-03 -3.77e-03 7.61e-03 3.37e-03 -6.24e-03 1.26e-02  
## 3607 -2.35e-02 1.65e-02 -1.50e-02 1.06e-02 2.51e-03 3.58e-03 -5.75e-03  
## 3608 -7.77e-03 9.19e-03 2.14e-02 1.39e-02 -3.04e-03 8.58e-03 1.44e-02  
## 3609 5.21e-04 -1.06e-03 5.29e-04 1.17e-03 -1.62e-03 -8.14e-04 -2.12e-03  
## 3610 -9.21e-03 -1.41e-02 -3.19e-02 2.63e-03 2.68e-02 -7.49e-03 1.00e-02  
## 3611 -3.48e-03 -2.95e-03 5.91e-03 -2.32e-03 2.18e-03 2.61e-04 4.96e-03  
## 3612 -1.07e-02 1.58e-02 -3.02e-02 2.34e-02 -1.11e-02 3.85e-03 -1.47e-02  
## 3613 -1.24e-03 4.56e-03 -1.87e-03 -1.81e-03 -6.07e-03 6.04e-03 -8.47e-03  
## 3614 -7.79e-03 6.98e-03 -1.08e-03 -8.01e-04 7.08e-03 8.29e-04 -1.35e-03  
## 3615 9.41e-03 1.01e-02 2.19e-02 -1.47e-02 8.45e-03 5.79e-03 1.20e-02  
## 3616 1.62e-02 2.03e-02 5.96e-03 1.92e-02 2.23e-02 3.45e-02 -2.89e-02  
## 3617 -6.44e-03 5.58e-03 -2.16e-04 -8.75e-04 5.87e-03 3.06e-03 7.44e-03  
## 3618 -2.44e-02 1.43e-02 2.62e-02 -1.89e-02 9.02e-03 3.25e-03 2.20e-02  
## 3619 3.45e-03 -1.06e-02 2.02e-02 3.14e-03 -2.15e-02 1.25e-03 -1.83e-03  
## 3620 8.74e-04 3.01e-03 1.27e-03 3.52e-03 -5.03e-03 -8.10e-03 -1.45e-03  
## 3621 5.75e-03 5.95e-03 8.85e-04 9.95e-03 -1.32e-02 1.50e-03 -2.34e-03  
## 3622 1.09e-03 -3.71e-03 -2.51e-04 1.66e-03 2.24e-03 -2.78e-03 5.80e-06  
## 3623 1.73e-02 9.79e-03 -1.35e-03 3.75e-03 4.43e-03 6.20e-03 -8.05e-03  
## 3624 2.86e-03 4.68e-03 3.47e-04 -3.51e-03 -3.79e-03 -8.90e-03 -6.76e-03  
## 3625 -4.39e-02 2.58e-02 4.60e-03 -9.22e-03 -1.27e-02 4.46e-02 5.83e-03  
## 3626 -1.05e-02 1.86e-02 -4.53e-02 3.51e-02 -1.79e-02 2.28e-02 1.12e-02  
## 3627 -8.43e-03 -1.74e-02 -1.91e-02 -2.87e-02 1.93e-02 5.78e-03 -6.21e-03  
## 3628 -3.06e-02 -2.12e-02 4.58e-02 1.26e-02 -6.74e-03 -6.40e-03 2.32e-02  
## 3629 -8.37e-05 2.25e-04 5.34e-04 3.95e-04 -5.04e-05 -2.69e-04 1.62e-05  
## 3630 2.76e-04 1.59e-03 8.43e-04 1.76e-03 -2.57e-03 -3.96e-03 1.74e-03  
## 3631 6.64e-03 -4.14e-03 1.18e-03 6.20e-03 -8.34e-03 -3.48e-03 -8.00e-04  
## 3632 -2.31e-02 -2.53e-02 4.62e-03 -8.89e-03 -1.38e-02 1.81e-02 6.39e-03  
## 3633 -1.07e-03 1.98e-02 -4.63e-02 3.62e-02 -1.87e-02 2.60e-02 1.04e-02  
## 3634 -7.96e-03 -1.23e-02 2.01e-02 -9.19e-03 6.33e-03 -8.14e-03 -1.19e-03  
## 3635 -5.68e-03 -1.42e-02 -2.29e-02 1.81e-02 -8.10e-03 -4.35e-03 9.06e-03  
## 3636 5.62e-04 -2.71e-03 -4.67e-04 2.82e-03 1.09e-03 -6.93e-04 -3.66e-04  
## 3637 1.88e-02 -1.84e-02 3.59e-02 2.19e-02 -8.78e-03 1.17e-02 -1.66e-02  
## 3638 -1.40e-04 2.08e-04 9.80e-05 2.97e-04 -3.31e-04 -3.86e-04 -3.37e-05  
## 3639 -3.59e-04 7.94e-04 2.72e-04 1.65e-03 -1.58e-03 1.87e-04 -1.07e-03  
## 3640 6.28e-03 -5.50e-03 -8.50e-04 1.86e-03 2.69e-03 -3.70e-03 -1.49e-03  
## 3641 -1.63e-02 6.77e-03 -3.25e-03 6.06e-03 2.09e-03 3.44e-03 1.27e-02  
## 3642 -3.33e-02 1.87e-02 4.19e-02 1.31e-02 -6.06e-03 -2.90e-03 2.11e-02  
## 3643 -8.95e-03 -1.14e-02 -7.15e-03 -1.44e-03 -1.54e-02 -9.34e-04 4.50e-04  
## 3644 3.05e-04 -2.52e-03 1.81e-04 1.13e-05 2.36e-03 -5.68e-03 2.73e-03  
## 3645 -8.51e-04 1.69e-03 4.42e-03 2.69e-03 4.21e-05 4.70e-03 -2.41e-03  
## 3646 6.74e-06 -6.26e-05 1.50e-04 -5.66e-05 6.89e-05 1.45e-04 1.71e-05  
## 3647 3.37e-02 1.94e-02 -4.32e-02 -9.81e-03 3.71e-03 3.44e-02 -2.69e-02  
## 3648 2.76e-03 5.35e-03 -2.38e-03 -7.47e-03 7.90e-03 -3.40e-03 7.96e-03  
## 3649 2.68e-03 -1.28e-02 -1.34e-02 -2.14e-02 1.57e-02 7.66e-03 1.46e-02  
## 3650 4.76e-03 -2.63e-03 -1.40e-03 -4.57e-03 4.00e-03 1.27e-03 -3.19e-04  
## 3651 -8.54e-03 2.98e-03 7.81e-03 -3.91e-03 3.61e-03 7.58e-04 6.69e-04  
## 3652 2.54e-03 -1.93e-03 -2.58e-05 -8.32e-04 -1.81e-03 -1.58e-03 -2.76e-03  
## 3653 2.22e-03 -8.23e-03 -1.16e-03 2.99e-03 2.82e-03 4.52e-04 -3.92e-03  
## 3654 1.21e-04 3.43e-03 -3.49e-03 -3.32e-03 4.25e-03 -2.65e-03 1.14e-04  
## 3655 -7.47e-03 9.58e-03 -2.90e-03 3.46e-03 4.13e-03 -1.71e-02 1.51e-02  
## 3656 -1.74e-02 -9.66e-03 -6.03e-03 9.92e-03 1.89e-03 2.08e-03 1.41e-02  
## 3657 2.26e-02 2.32e-02 7.16e-03 -8.12e-03 -7.84e-03 1.04e-02 5.99e-03  
## 3658 -5.49e-03 -2.11e-02 -1.60e-02 9.67e-03 4.27e-03 1.71e-02 1.73e-02  
## 3659 -2.65e-03 1.05e-02 -2.52e-03 2.45e-03 4.22e-03 -3.11e-03 -4.86e-03  
## 3660 -1.96e-03 2.17e-03 -2.04e-03 -2.08e-03 3.03e-03 -2.18e-03 5.59e-04  
## 3661 6.06e-03 2.07e-02 1.47e-02 3.49e-03 2.89e-02 -6.72e-03 1.36e-03  
## 3662 -1.83e-02 -1.67e-02 4.17e-02 -3.54e-03 -2.75e-02 -1.38e-02 2.21e-02  
## 3663 2.65e-03 8.09e-03 -3.80e-03 -1.35e-02 1.22e-02 -7.29e-03 -2.08e-03  
## 3664 1.55e-02 1.26e-02 -1.15e-02 1.32e-02 1.18e-03 7.16e-03 -6.56e-03  
## 3665 7.70e-03 -3.41e-03 -5.61e-04 -1.72e-03 -3.81e-03 1.15e-03 -5.77e-03  
## 3666 9.71e-03 1.07e-02 8.94e-03 -3.95e-03 -2.04e-03 3.04e-03 5.00e-03  
## 3667 -5.84e-04 2.46e-02 2.08e-02 3.01e-02 -3.08e-02 -6.42e-03 4.01e-02  
## 3668 1.76e-03 -1.64e-02 1.73e-02 -1.63e-02 -1.08e-03 -9.64e-03 6.25e-03  
## 3669 2.00e-02 2.17e-02 6.28e-03 -5.53e-03 -7.81e-03 1.90e-02 6.27e-03  
## 3670 7.39e-03 -6.50e-03 -8.86e-04 1.57e-03 3.26e-03 -8.74e-03 -1.61e-03  
## 3671 9.93e-04 2.87e-03 -5.72e-05 1.85e-03 1.76e-03 1.42e-03 -7.17e-04  
## 3672 -1.41e-02 -1.18e-02 -3.19e-03 2.04e-03 4.08e-03 -1.36e-02 1.74e-02  
## 3673 2.42e-02 9.56e-03 -3.27e-04 -6.54e-03 -9.30e-03 4.68e-03 -2.06e-02  
## 3674 -3.64e-02 -2.38e-02 5.63e-03 -5.62e-03 -1.19e-02 3.56e-02 9.38e-03  
## 3675 1.49e-02 -1.89e-02 1.14e-02 4.21e-02 -2.95e-02 1.12e-02 -2.97e-02  
## 3676 1.51e-03 -1.48e-02 -2.53e-02 1.60e-02 -7.69e-03 -3.28e-03 7.27e-03  
## 3677 1.86e-02 -1.30e-02 9.09e-03 -3.82e-03 -3.37e-03 3.34e-03 -1.45e-02  
## 3678 8.43e-03 -5.48e-03 1.50e-03 6.51e-03 -8.98e-03 -5.98e-03 -2.92e-03  
## 3679 -2.19e-02 1.27e-02 -1.30e-02 1.26e-02 7.09e-04 9.31e-03 -7.38e-04  
## 3680 -1.97e-04 4.24e-03 -2.45e-03 -5.98e-03 6.15e-03 2.97e-03 7.27e-03  
## 3681 1.62e-02 1.31e-02 1.10e-02 -6.48e-03 -1.96e-03 -2.48e-03 4.40e-03  
## 3682 -4.88e-03 -2.10e-02 4.01e-03 1.32e-02 2.15e-02 3.39e-03 -2.42e-02  
## 3683 1.59e-03 -1.38e-02 -1.20e-02 1.43e-02 3.28e-04 5.82e-03 -6.47e-03  
## 3684 1.58e-02 1.10e-02 -2.38e-02 -6.55e-03 3.49e-03 3.35e-03 -1.20e-02  
## 3685 -2.53e-02 1.85e-02 1.36e-02 -1.28e-02 -4.19e-03 -6.68e-03 -1.85e-02  
## 3686 3.52e-04 -5.94e-03 -4.15e-03 -8.79e-03 8.89e-03 -2.59e-03 -1.03e-02  
## 3687 3.86e-02 -1.34e-02 -4.47e-03 -1.15e-02 -1.63e-02 -1.20e-02 -3.48e-02  
## 3688 -6.93e-04 -5.53e-03 -1.85e-03 5.19e-03 2.60e-03 -5.22e-04 -9.44e-03  
## 3689 -7.24e-03 3.02e-02 8.51e-03 -4.15e-03 3.80e-02 3.58e-02 -6.38e-03  
## 3690 1.57e-02 -1.63e-02 -1.23e-02 -7.07e-03 -2.30e-02 8.08e-03 -9.00e-03  
## 3691 -1.12e-02 2.17e-02 1.00e-02 4.59e-02 -3.05e-02 1.40e-02 9.66e-03  
## 3692 -1.94e-03 -1.26e-02 -6.02e-03 -5.44e-03 -1.57e-02 5.35e-03 -2.16e-03  
## 3693 -3.62e-03 -9.28e-03 -8.87e-03 1.04e-02 -4.70e-05 9.16e-03 -1.80e-03  
## 3694 4.20e-03 -3.64e-03 -1.62e-03 -6.30e-03 5.53e-03 -1.11e-03 -1.20e-03  
## 3695 -4.65e-02 -2.59e-02 -4.51e-03 -4.37e-02 5.68e-02 -1.60e-03 7.80e-03  
## 3696 6.84e-04 -1.72e-03 2.25e-04 -9.88e-04 -1.38e-03 -2.23e-03 -2.19e-03  
## 3697 7.58e-03 1.41e-02 -3.09e-02 -1.37e-02 5.01e-03 -4.30e-03 6.82e-03  
## 3698 9.41e-04 3.06e-03 1.43e-03 4.84e-03 -6.20e-03 -4.58e-03 -2.14e-06  
## 3699 -1.08e-03 6.91e-04 1.94e-04 -5.91e-05 7.90e-04 -3.11e-04 1.16e-03  
## 3700 4.24e-03 4.08e-03 -3.51e-04 6.69e-05 3.94e-03 -3.04e-03 3.68e-03  
## 3701 -5.78e-03 1.35e-02 -1.01e-02 9.36e-03 1.78e-03 1.13e-02 -6.15e-03  
## 3702 6.77e-04 -3.86e-03 -2.15e-04 2.89e-04 3.38e-03 -9.34e-03 -2.02e-03  
## 3703 -1.73e-03 2.51e-03 1.96e-04 1.03e-03 2.03e-03 -5.08e-03 4.73e-04  
## 3704 -1.43e-02 1.25e-02 -5.77e-03 3.94e-03 5.07e-03 -1.09e-02 -2.62e-02  
## 3705 1.73e-03 3.12e-03 6.11e-04 -2.99e-03 -2.74e-03 -5.27e-03 1.89e-04  
## 3706 6.19e-04 -3.15e-04 -4.90e-05 -5.44e-05 -3.96e-04 1.81e-05 -5.36e-04  
## 3707 -7.78e-04 1.36e-03 -6.85e-05 1.20e-03 7.68e-04 1.46e-03 -3.37e-05  
## 3708 2.65e-02 -1.65e-02 -3.05e-02 2.07e-02 -9.69e-03 -1.40e-02 -2.40e-02  
## 3709 3.72e-04 -3.94e-03 3.32e-04 -9.67e-05 3.98e-03 -2.35e-03 -9.82e-04  
## 3710 -2.23e-02 2.00e-02 4.28e-02 1.52e-02 -7.48e-03 4.44e-03 1.82e-02  
## 3711 -9.58e-03 8.68e-03 1.14e-02 1.75e-02 -1.18e-02 -4.02e-03 6.67e-03  
## 3712 -2.93e-03 6.16e-03 -2.76e-03 4.71e-03 1.94e-03 3.65e-03 -2.43e-03  
## 3713 3.73e-03 -1.10e-02 -1.31e-02 -1.30e-02 1.19e-02 6.35e-03 -1.99e-03  
## 3714 6.25e-04 1.49e-03 -1.75e-04 9.64e-04 9.22e-04 -2.37e-04 -5.14e-05  
## 3715 4.51e-04 -3.02e-03 -1.02e-03 2.60e-03 8.61e-04 3.39e-03 -6.72e-04  
## 3716 -2.95e-02 2.63e-02 3.74e-03 -6.68e-03 -1.31e-02 3.29e-02 6.22e-03  
## 3717 -9.23e-04 3.14e-03 8.75e-04 5.13e-03 -6.05e-03 -1.97e-03 5.45e-03  
## 3718 6.07e-03 -4.37e-03 1.02e-04 -3.38e-03 -4.21e-03 -4.78e-04 -4.11e-04  
## 3719 -5.16e-04 -5.30e-04 8.87e-05 6.60e-05 5.49e-04 -1.14e-03 7.17e-04  
## 3720 1.79e-02 1.26e-02 8.66e-03 -3.54e-03 -2.88e-03 7.70e-05 -1.47e-02  
## 3721 -1.24e-03 -1.51e-02 1.07e-02 -8.02e-03 -1.82e-03 -5.68e-03 8.19e-03  
## 3722 -1.36e-03 6.90e-03 6.55e-03 -3.33e-03 -1.18e-03 -4.07e-03 5.30e-03  
## 3723 -2.71e-03 -1.26e-03 4.84e-04 -1.64e-03 -3.61e-04 -4.50e-04 2.34e-03  
## 3724 1.37e-04 -7.36e-04 1.79e-04 -8.12e-04 -4.56e-04 -1.56e-03 -2.22e-04  
## 3725 -2.21e-02 2.10e-02 2.73e-02 2.37e-02 -2.10e-02 -2.44e-03 8.08e-03  
## 3726 -2.76e-02 1.85e-02 -1.32e-02 5.73e-03 4.69e-03 -3.94e-03 2.14e-02  
## 3727 8.09e-03 -5.15e-03 8.26e-04 -2.95e-03 -5.12e-03 -7.22e-03 -9.45e-03  
## 3728 -3.51e-03 -2.30e-03 1.02e-03 4.03e-03 -4.44e-03 -2.90e-03 4.87e-03  
## 3729 -1.24e-03 -3.67e-03 8.13e-03 6.46e-03 -1.36e-03 -5.36e-03 1.46e-06  
## 3730 2.28e-04 -2.15e-02 -2.39e-02 -4.50e-02 2.90e-02 -3.19e-03 -1.44e-02  
## 3731 7.55e-03 -4.90e-03 -7.60e-04 2.16e-03 2.91e-03 -1.10e-02 -6.90e-04  
## 3732 5.41e-03 1.81e-02 9.19e-03 -6.21e-03 -5.02e-03 1.14e-02 3.47e-02  
## 3733 -5.22e-03 9.97e-03 -7.25e-03 8.86e-03 2.54e-03 1.23e-02 1.42e-02  
## 3734 2.12e-03 4.07e-03 -9.39e-04 2.58e-03 2.38e-03 -2.01e-03 -6.59e-03  
## 3735 -1.65e-02 -1.90e-02 -9.01e-03 -1.79e-02 -2.38e-02 -6.94e-03 2.44e-02  
## 3736 4.98e-05 -1.62e-03 5.41e-04 -2.59e-04 2.03e-03 2.35e-03 -5.89e-04  
## 3737 1.63e-02 -9.35e-03 -6.95e-03 9.58e-03 1.67e-03 9.32e-03 -4.48e-03  
## 3738 5.14e-03 -2.27e-02 -6.43e-03 -3.43e-02 4.95e-02 1.33e-02 8.75e-03  
## 3739 -2.24e-02 1.06e-02 -6.30e-03 7.26e-03 3.93e-03 -5.08e-03 1.68e-02  
## 3740 -4.38e-03 -1.19e-02 8.95e-03 -4.94e-03 -3.03e-03 -8.53e-03 -7.91e-03  
## 3741 1.16e-02 1.28e-02 1.21e-02 2.73e-02 -1.68e-02 6.85e-03 -1.49e-02  
## 3742 1.81e-02 -1.11e-02 -1.25e-03 -1.11e-02 -1.25e-02 -5.19e-03 -2.45e-02  
## 3743 -2.95e-06 4.27e-04 -4.00e-05 4.40e-04 2.36e-04 6.47e-06 -8.56e-05  
## 3744 3.19e-04 -6.48e-03 -1.26e-02 -4.49e-03 2.12e-03 -2.15e-03 6.08e-03  
## 3745 2.35e-02 -1.01e-02 2.83e-02 -1.76e-02 1.12e-02 -2.84e-03 -9.22e-03  
## 3746 1.05e-02 6.71e-03 -6.62e-03 -7.25e-03 6.87e-03 -3.84e-04 -1.94e-03  
## 3747 1.38e-03 -1.81e-03 9.17e-05 -1.91e-03 -1.01e-03 -1.54e-03 -2.00e-04  
## 3748 -1.52e-02 9.71e-03 -2.94e-03 1.78e-03 4.23e-03 -1.35e-02 1.60e-02  
## 3749 5.81e-03 5.88e-03 -8.45e-04 1.42e-03 3.30e-03 -8.54e-03 -1.75e-03  
## 3750 1.40e-02 -1.13e-02 9.57e-03 -4.43e-03 -2.23e-03 2.26e-03 4.57e-03  
## 3751 2.77e-02 -1.64e-02 9.97e-03 -3.95e-03 -5.78e-03 3.08e-02 -2.61e-02  
## 3752 -2.02e-03 -2.02e-03 -1.58e-04 1.75e-03 8.78e-04 -4.99e-05 2.25e-04  
## 3753 2.19e-03 -8.63e-03 -1.87e-03 2.96e-03 3.99e-03 -9.87e-03 -3.66e-03  
## 3754 -2.49e-03 -1.12e-02 9.31e-03 -5.80e-03 -2.14e-03 -2.23e-03 8.56e-03  
## 3755 -1.04e-02 1.79e-02 -1.26e-02 6.85e-03 3.87e-03 -2.83e-03 1.68e-02  
## 3756 -1.13e-03 9.31e-04 6.65e-04 8.87e-04 -1.39e-03 3.01e-04 1.59e-03  
## 3757 -5.20e-03 1.19e-02 -7.02e-03 6.21e-03 3.56e-03 -4.54e-03 -2.52e-02  
## 3758 7.70e-03 -1.17e-02 1.10e-02 2.35e-02 -1.54e-02 3.01e-04 -1.20e-02  
## 3759 4.79e-03 -5.58e-03 -1.00e-03 2.68e-03 3.29e-03 -8.54e-03 -9.23e-03  
## 3760 1.15e-02 -7.92e-03 -2.19e-03 2.80e-03 3.65e-03 -8.80e-03 -1.45e-02  
## 3761 -1.67e-02 1.89e-02 -4.94e-02 -1.20e-02 3.07e-03 1.18e-02 1.40e-02  
## 3762 -4.41e-04 9.60e-04 -7.65e-04 -8.90e-04 1.22e-03 -1.78e-03 3.50e-04  
## 3763 -4.77e-03 -1.00e-02 -1.23e-02 -1.28e-02 1.09e-02 6.23e-03 -9.93e-04  
## 3764 1.18e-02 -5.32e-03 -1.54e-03 -2.35e-03 -6.12e-03 6.35e-03 -8.69e-03  
## 3765 -1.09e-05 1.99e-03 7.57e-04 2.73e-03 -3.47e-03 -2.58e-03 -8.67e-04  
## 3766 9.35e-03 -1.13e-02 7.84e-03 -3.66e-03 -3.34e-03 -1.51e-03 -1.05e-02  
## 3767 -8.88e-03 -1.21e-02 9.91e-03 2.22e-02 -1.51e-02 -5.88e-03 -8.44e-03  
## 3768 3.65e-02 2.11e-02 8.98e-03 -4.55e-03 -6.62e-03 3.11e-02 -3.09e-02  
## 3769 7.38e-03 7.49e-03 1.98e-02 1.14e-03 -1.41e-02 1.82e-03 -1.59e-02  
## 3770 2.07e-03 -1.43e-02 -2.89e-02 -1.98e-02 8.09e-03 -6.18e-03 1.02e-02  
## 3771 -1.04e-02 7.02e-03 -5.17e-03 -1.20e-02 1.13e-02 4.65e-03 7.10e-06  
## 3772 -6.05e-04 2.04e-03 -3.20e-04 6.98e-04 1.68e-03 -8.72e-04 -8.00e-04  
## 3773 -6.55e-03 1.22e-02 -5.56e-03 4.71e-03 4.28e-03 -1.57e-02 -2.41e-02  
## 3774 -1.67e-02 -3.47e-02 -1.06e-01 -1.10e-02 5.24e-02 4.07e-03 5.37e-02  
## 3775 7.29e-04 -6.90e-04 -5.56e-05 1.92e-04 7.84e-04 -1.83e-04 -2.07e-04  
## 3776 9.63e-06 2.06e-03 -2.56e-04 1.32e-03 1.35e-03 8.00e-04 7.00e-06  
## 3777 -5.31e-03 -2.03e-02 -7.29e-03 3.31e-02 -4.68e-02 6.67e-03 -1.04e-02  
## 3778 6.03e-03 -9.74e-03 -1.24e-02 -9.56e-03 9.01e-03 1.66e-03 -2.20e-03  
## 3779 2.16e-03 -1.24e-02 -2.46e-02 -1.59e-02 6.74e-03 -8.02e-03 8.18e-03  
## 3780 -9.83e-04 -9.78e-03 -1.66e-02 1.49e-02 -5.91e-03 -3.85e-04 7.62e-03  
## 3781 -1.19e-02 1.52e-02 -1.07e-02 -8.33e-03 -2.15e-02 -1.56e-03 -1.88e-03  
## 3782 -4.38e-03 -9.24e-03 -6.36e-03 9.54e-03 -1.12e-05 6.88e-03 1.27e-02  
## 3783 -5.06e-04 -3.31e-02 1.70e-02 3.78e-02 -4.62e-02 4.11e-02 -5.17e-02  
## 3784 4.79e-03 5.13e-03 -9.14e-04 1.80e-03 2.81e-03 -3.75e-03 -1.38e-03  
## 3785 -1.63e-02 -2.82e-02 4.40e-04 -8.51e-03 -1.85e-02 6.80e-02 3.07e-03  
## 3786 -2.68e-02 1.75e-02 -1.27e-02 6.42e-03 4.28e-03 -2.05e-03 2.06e-02  
## 3787 8.74e-03 1.26e-02 -2.52e-02 -1.24e-02 5.31e-03 -8.66e-03 -1.27e-02  
## 3788 6.18e-03 -5.75e-03 -9.54e-04 1.95e-03 2.78e-03 -3.83e-03 -1.26e-03  
## 3789 8.73e-03 1.10e-02 -7.71e-03 -2.29e-02 1.61e-02 -3.72e-03 -7.49e-03  
## 3790 -2.17e-02 1.88e-02 -1.44e-02 9.12e-03 4.69e-03 9.32e-03 2.18e-02  
## 3791 3.30e-03 1.99e-02 1.07e-02 -9.76e-03 -5.00e-03 5.25e-03 3.83e-02  
## 3792 8.24e-03 7.19e-03 -5.23e-03 -9.79e-03 9.96e-03 -6.72e-04 -1.39e-02  
## 3793 -1.42e-03 1.35e-02 -1.14e-02 1.29e-02 7.19e-04 1.07e-02 -4.93e-03  
## 3794 -3.37e-02 2.71e-02 7.21e-03 -2.09e-02 -8.58e-03 -2.26e-02 5.32e-02  
## 3795 -8.63e-04 -7.55e-04 -1.67e-05 1.79e-03 -1.67e-03 -2.82e-04 3.68e-04  
## 3796 4.13e-05 1.41e-02 -3.21e-02 -1.24e-02 5.15e-03 -6.79e-03 7.91e-03  
## 3797 5.81e-03 5.87e-03 -8.40e-04 1.42e-03 3.30e-03 -8.53e-03 -1.76e-03  
## 3798 3.97e-02 -2.66e-02 2.20e-02 3.26e-02 -3.80e-02 1.91e-02 -7.52e-03  
## 3799 -1.87e-02 1.72e-02 -1.33e-02 8.00e-03 4.71e-03 2.73e-03 -7.06e-03  
## 3800 1.87e-02 -1.07e-02 -2.37e-02 -6.40e-03 3.25e-03 3.26e-03 -1.21e-02  
## 3801 -1.45e-02 -1.67e-02 3.56e-02 1.38e-02 -5.40e-03 4.06e-03 1.73e-02  
## 3802 -1.72e-02 -1.40e-02 1.63e-02 2.18e-02 -1.58e-02 -6.29e-03 1.08e-02  
## 3803 8.58e-03 -5.39e-03 5.19e-04 -5.22e-03 -5.06e-03 -7.62e-03 -1.12e-03  
## 3804 4.37e-06 3.59e-05 -8.44e-06 3.41e-05 2.05e-05 6.74e-05 5.49e-06  
## 3805 -7.34e-03 9.45e-03 -6.31e-04 -1.06e-02 -1.12e-02 -1.25e-02 -3.06e-03  
## 3806 6.11e-03 9.42e-03 -1.03e-03 2.00e-03 4.38e-03 -1.52e-03 -5.24e-03  
## 3807 4.76e-03 4.25e-03 -7.45e-04 2.12e-03 2.33e-03 -5.69e-03 -5.15e-04  
## 3808 -4.84e-03 4.47e-03 -2.92e-03 7.80e-04 -6.32e-03 -6.47e-03 1.14e-03  
## 3809 -4.78e-03 -3.35e-03 1.68e-03 3.18e-03 -4.78e-03 1.10e-03 5.28e-03  
## 3810 1.00e-02 1.12e-02 9.36e-03 -4.44e-03 -2.11e-03 2.70e-03 5.44e-03  
## 3811 2.40e-03 3.04e-03 7.91e-03 4.75e-04 -4.65e-03 -2.89e-03 -5.02e-03  
## 3812 7.44e-04 9.83e-04 9.18e-05 -8.98e-04 -6.35e-04 -1.65e-03 -3.62e-04  
## 3813 1.09e-03 -3.66e-03 -3.04e-03 -4.65e-03 5.61e-03 -5.69e-03 5.14e-04  
## 3814 -8.54e-03 5.62e-03 -3.06e-03 5.15e-03 2.22e-03 3.43e-03 1.09e-02  
## 3815 7.76e-03 4.37e-03 7.91e-03 -2.90e-03 2.22e-03 -8.02e-04 -1.80e-03  
## 3816 9.58e-03 9.37e-03 -1.97e-02 -6.21e-03 3.32e-03 4.04e-03 5.71e-03  
## 3817 2.69e-02 -1.99e-02 -1.26e-02 -1.63e-02 -2.56e-02 1.16e-02 -1.72e-02  
## 3818 -3.49e-03 -6.18e-03 2.65e-03 6.02e-03 -8.97e-03 1.49e-03 8.39e-03  
## 3819 -3.61e-03 1.38e-02 -6.66e-03 4.43e-03 4.48e-03 -4.38e-03 -8.66e-03  
## 3820 5.23e-04 1.89e-03 -2.71e-04 6.03e-04 1.44e-03 -2.49e-03 -7.50e-04  
## 3821 1.96e-03 -4.96e-03 -6.49e-05 1.37e-03 3.16e-03 -9.84e-03 -2.30e-04  
## 3822 1.22e-04 2.89e-03 1.17e-03 3.62e-03 -4.96e-03 -5.59e-03 -1.30e-03  
## 3823 -3.40e-04 -1.54e-02 -2.48e-02 1.72e-02 -8.92e-03 -2.20e-03 7.12e-03  
## 3824 -8.53e-03 -9.38e-03 9.89e-03 1.67e-02 -1.11e-02 -3.44e-03 7.48e-03  
## 3825 1.16e-02 -1.66e-02 -3.00e-02 2.13e-02 -1.25e-02 7.69e-03 5.42e-03  
## 3826 7.50e-03 -4.96e-03 -3.50e-03 -6.93e-03 7.02e-03 1.05e-03 -9.71e-03  
## 3827 1.74e-02 1.42e-02 -7.57e-03 8.66e-03 3.97e-03 1.62e-04 -3.41e-02  
## 3828 -2.31e-02 2.93e-02 5.47e-03 3.26e-03 3.39e-02 -1.54e-02 1.21e-03  
## 3829 1.37e-03 -2.14e-03 2.77e-04 -1.46e-03 -1.81e-03 -8.07e-04 2.36e-04  
## 3830 9.20e-05 4.54e-04 2.50e-04 5.11e-04 -5.74e-04 -4.25e-04 6.33e-04  
## 3831 -1.57e-02 1.22e-02 6.63e-03 -5.77e-03 -5.22e-03 -8.74e-03 -1.01e-02  
## 3832 1.53e-02 -1.81e-02 -1.82e-02 1.61e-02 4.68e-04 6.51e-03 -1.23e-02  
## 3833 6.56e-03 -4.55e-03 1.79e-04 -3.70e-03 -4.36e-03 -1.64e-03 -5.67e-04  
## 3834 -1.50e-04 3.65e-04 8.69e-04 -3.39e-04 4.11e-04 5.01e-04 -4.42e-04  
## 3835 -6.26e-03 -1.48e-02 -2.43e-02 1.77e-02 -9.24e-03 -4.42e-03 1.10e-02  
## 3836 -4.64e-03 -1.74e-02 -1.96e-02 -2.81e-02 2.06e-02 5.65e-03 -6.75e-03  
## 3837 2.65e-02 -1.19e-02 -2.53e-02 2.29e-02 -1.02e-02 4.15e-03 -1.50e-02  
## 3838 -5.10e-02 2.39e-02 7.33e-03 -2.31e-02 -8.87e-03 -1.10e-03 5.19e-02  
## 3839 1.09e-02 -1.35e-02 9.78e-03 -5.20e-03 -3.05e-03 -1.37e-03 -1.32e-02  
## 3840 -6.56e-04 -1.20e-02 -2.11e-03 -1.04e-02 -1.33e-02 -1.00e-02 -3.30e-03  
## 3841 1.15e-02 6.52e-03 -1.80e-03 2.49e-03 2.92e-03 -6.80e-03 -2.24e-03  
## 3842 -3.85e-03 -1.10e-02 -3.31e-03 2.76e-03 4.69e-03 -5.73e-03 -5.21e-03  
## 3843 -1.26e-02 2.38e-02 2.49e-02 2.71e-02 -3.49e-02 3.71e-02 1.80e-04  
## 3844 -7.44e-04 -5.00e-04 1.56e-04 6.24e-04 -7.55e-04 5.91e-05 1.41e-04  
## 3845 1.29e-04 -4.13e-04 3.37e-05 -1.67e-04 -3.38e-04 3.39e-04 1.13e-04  
## 3846 1.42e-02 7.15e-03 -1.68e-03 2.01e-03 3.21e-03 -1.41e-02 -2.79e-03  
## 3847 -2.02e-02 9.99e-03 -9.26e-03 1.06e-02 1.04e-03 7.75e-03 -4.45e-04  
## 3848 1.85e-02 -7.71e-03 -8.78e-03 -1.12e-02 1.00e-02 8.73e-04 -3.26e-03  
## 3849 9.05e-04 1.31e-03 -1.34e-04 -4.65e-04 -1.62e-03 2.26e-03 -2.27e-04  
## 3850 7.06e-03 8.00e-03 -9.67e-03 -9.54e-03 8.33e-03 -8.55e-04 -1.03e-03  
## 3851 7.36e-03 5.25e-03 -9.20e-04 1.78e-03 2.60e-03 -8.24e-03 -1.26e-03  
## 3852 3.35e-03 1.71e-03 -3.96e-04 1.65e-03 6.47e-04 4.85e-04 -6.36e-04  
## 3853 -2.70e-03 -9.09e-03 -8.00e-03 1.11e-02 1.33e-03 -3.30e-03 -1.02e-03  
## 3854 -1.39e-02 1.00e-02 -1.89e-03 1.80e-02 -2.55e-02 -7.25e-03 1.82e-02  
## 3855 1.48e-03 -1.09e-02 7.07e-04 2.11e-02 -2.39e-02 -2.11e-03 1.41e-02  
## 3856 9.03e-04 -1.81e-03 1.07e-04 1.14e-04 1.71e-03 -4.90e-03 2.04e-03  
## 3857 3.05e-02 2.10e-02 -2.32e-02 -3.41e-02 2.42e-02 1.05e-02 -1.96e-02  
## 3858 -6.50e-03 1.37e-02 1.39e-02 -1.17e-02 -1.43e-03 -9.39e-03 8.20e-03  
## 3859 1.25e-02 -7.40e-03 1.65e-03 1.02e-02 -1.48e-02 -1.03e-02 -1.35e-02  
## 3860 7.73e-04 -3.16e-03 4.90e-04 -2.18e-03 -2.44e-03 -5.15e-03 -4.00e-03  
## 3861 6.69e-03 -7.79e-03 -4.36e-03 -1.33e-02 1.30e-02 -8.53e-03 -3.78e-03  
## 3862 -5.66e-04 1.79e-02 1.02e-02 1.22e-02 2.39e-02 2.65e-03 -2.32e-02  
## 3863 -6.27e-03 1.18e-02 -1.34e-02 -1.53e-02 1.47e-02 -3.62e-03 -2.40e-03  
## 3864 7.15e-04 -4.86e-03 -4.14e-03 -5.22e-03 6.21e-03 7.87e-03 7.88e-03  
## 3865 -7.86e-03 -8.68e-03 7.43e-03 -4.27e-03 -1.16e-03 -3.45e-03 7.35e-03  
## 3866 1.05e-02 1.73e-02 -5.31e-03 -1.42e-02 -2.17e-02 1.79e-02 1.72e-02  
## 3867 1.16e-03 7.86e-04 -7.99e-05 2.53e-04 7.22e-04 -2.10e-04 -1.77e-03  
## 3868 -4.81e-03 -1.22e-02 -4.74e-03 4.31e-03 3.69e-03 -6.76e-03 -5.07e-03  
## 3869 -1.32e-02 -1.93e-02 -4.64e-02 7.80e-05 3.56e-02 5.08e-03 7.25e-03  
## 3870 6.20e-03 1.98e-02 -1.86e-02 1.35e-02 2.91e-03 8.24e-03 -1.25e-02  
## 3871 -1.82e-02 2.08e-02 5.13e-03 1.27e-02 2.29e-02 1.15e-02 -2.94e-02  
## 3872 -3.86e-04 -6.52e-04 2.15e-04 -1.33e-04 7.95e-04 1.25e-03 -1.83e-04  
## 3873 2.50e-02 -1.91e-02 6.38e-03 -5.26e-03 -8.37e-03 1.93e-02 6.66e-03  
## 3874 1.54e-02 9.87e-03 -1.38e-03 -5.26e-03 -1.15e-02 -2.54e-03 -1.99e-02  
## 3875 3.41e-03 -5.74e-03 2.27e-03 6.15e-03 -8.88e-03 -1.23e-03 6.16e-03  
## 3876 -5.68e-03 1.16e-02 -4.96e-03 3.79e-03 4.16e-03 -1.26e-02 -5.37e-03  
## 3877 -4.63e-03 -1.62e-02 -1.30e-02 9.17e-03 3.84e-03 2.31e-03 -6.95e-03  
## 3878 6.51e-03 -1.68e-02 -1.61e-02 -3.19e-02 2.18e-02 6.16e-03 -8.77e-03  
## 3879 -1.90e-02 -2.04e-02 -1.71e-02 8.08e-03 3.76e-03 -4.51e-03 -9.26e-03  
## 3880 -1.37e-05 -6.05e-03 1.10e-02 -3.87e-03 3.85e-03 -7.49e-03 8.44e-04  
## 3881 2.45e-02 -1.67e-02 1.12e-02 -7.20e-03 -5.31e-03 -5.23e-03 -2.05e-02  
## 3882 1.27e-02 1.25e-02 8.54e-03 -4.59e-03 -2.80e-03 -8.46e-04 -1.39e-02  
## 3883 1.47e-03 3.02e-03 -1.88e-04 1.35e-03 1.92e-03 -4.45e-03 -1.74e-04  
## 3884 -1.11e-02 2.94e-02 2.88e-02 2.75e-02 -3.10e-02 2.44e-02 -4.66e-04  
## 3885 -3.86e-03 3.95e-03 -2.41e-03 -5.91e-03 5.97e-03 -1.12e-04 -5.59e-03  
## 3886 6.08e-03 -4.27e-03 -8.97e-04 2.10e-03 1.99e-03 -1.60e-03 -9.03e-04  
## 3887 -2.16e-03 -1.39e-02 3.31e-02 8.40e-03 -2.38e-03 -6.35e-03 -7.68e-03  
## 3888 -3.29e-04 -6.75e-04 -4.85e-04 -6.72e-04 9.12e-04 -8.41e-04 2.90e-04  
## 3889 -4.49e-04 -1.61e-03 1.45e-06 2.91e-04 1.40e-03 -1.26e-03 1.90e-03  
## 3890 5.53e-04 -1.09e-03 7.34e-05 -5.52e-04 -9.46e-04 9.50e-04 1.97e-04  
## 3891 -2.01e-04 4.11e-04 1.31e-04 -8.00e-05 5.14e-04 6.62e-04 -1.20e-04  
## 3892 1.27e-03 -1.86e-03 -6.23e-04 1.81e-03 9.09e-04 2.50e-03 -2.69e-03  
## 3893 1.89e-02 -1.13e-02 2.01e-02 -1.07e-02 6.67e-03 2.15e-03 -7.06e-03  
## 3894 6.56e-04 -1.16e-03 1.00e-04 -6.34e-04 -1.00e-03 6.79e-04 1.67e-04  
## 3895 -8.43e-04 3.36e-03 -3.03e-03 -3.31e-03 4.17e-03 -6.19e-03 7.55e-04  
## 3896 -1.18e-02 -1.13e-02 -4.01e-03 2.81e-03 4.62e-03 -1.51e-02 1.69e-02  
## 3897 -8.60e-03 6.72e-03 -5.11e-03 6.68e-03 9.75e-04 1.07e-02 1.12e-02  
## 3898 2.99e-03 2.58e-03 -1.42e-04 -1.74e-03 -2.86e-03 3.76e-03 -8.02e-05  
## 3899 1.77e-02 1.91e-02 8.81e-03 -6.10e-03 -6.53e-03 2.67e-02 -2.62e-02  
## 3900 1.09e-02 1.27e-02 1.07e-02 2.65e-02 -1.77e-02 9.02e-04 -1.37e-02  
## 3901 -8.65e-03 1.32e-02 -6.72e-03 7.59e-03 3.88e-03 1.75e-02 1.48e-02  
## 3902 3.60e-03 -4.28e-03 9.91e-03 -3.60e-03 3.72e-03 -8.38e-03 -2.55e-05  
## 3903 -5.07e-04 1.90e-03 1.39e-04 8.30e-04 1.46e-03 -4.48e-03 2.79e-04  
## 3904 -1.23e-02 1.88e-02 1.93e-02 -2.05e-02 2.75e-04 -7.91e-03 8.22e-03  
## 3905 1.39e-02 -2.41e-02 6.57e-03 -1.25e-02 -1.10e-02 -5.47e-03 7.61e-03  
## 3906 4.62e-04 -1.04e-03 -2.18e-04 4.83e-05 -1.24e-03 -1.28e-03 2.09e-04  
## 3907 5.54e-04 -2.07e-03 1.14e-03 2.33e-03 -3.45e-03 -4.58e-03 2.30e-03  
## 3908 -1.86e-04 1.31e-03 -2.34e-04 1.03e-03 8.29e-04 1.68e-03 1.24e-04  
## 3909 -5.87e-03 -5.41e-03 -4.96e-03 -6.43e-03 6.65e-03 2.15e-03 9.76e-03  
## 3910 -2.96e-02 1.56e-02 -6.19e-03 -1.67e-02 -1.99e-02 -2.97e-03 2.23e-02  
## 3911 2.80e-02 -1.26e-02 -3.01e-02 -7.67e-03 3.11e-03 3.98e-03 -1.45e-02  
## 3912 2.36e-03 -1.33e-02 7.98e-03 9.11e-03 1.82e-02 -7.30e-03 -1.49e-02  
## 3913 -5.96e-03 8.34e-03 8.07e-03 -4.86e-03 -1.34e-03 -1.25e-03 7.47e-03  
## 3914 -6.27e-03 2.33e-03 -1.58e-03 3.44e-03 4.91e-04 -9.78e-04 1.40e-03  
## 3915 9.68e-03 -7.48e-03 -5.23e-03 -1.32e-02 1.09e-02 3.86e-03 -1.53e-02  
## 3916 -1.03e-02 1.16e-02 1.95e-02 -9.64e-03 5.56e-03 5.70e-03 -2.07e-03  
## 3917 1.14e-02 -1.06e-02 8.09e-03 -3.23e-03 -2.22e-03 -4.16e-03 -1.06e-02  
## 3918 2.95e-02 2.22e-02 1.29e-02 5.11e-03 2.84e-02 -3.97e-05 -4.27e-04  
## 3919 2.16e-04 -5.94e-03 -3.37e-03 -9.53e-03 8.50e-03 1.62e-03 -9.64e-03  
## 3920 -8.85e-03 9.78e-03 -5.68e-03 4.19e-03 3.90e-03 -4.94e-03 1.42e-02  
## 3921 -5.18e-02 -2.57e-02 1.24e-02 5.21e-02 -3.77e-02 4.76e-02 8.00e-03  
## 3922 1.37e-02 -1.85e-02 -2.04e-02 -3.30e-02 2.22e-02 7.89e-03 1.74e-02  
## 3923 -4.54e-03 3.59e-03 -8.79e-04 -1.25e-03 -4.49e-03 2.23e-03 6.22e-04  
## 3924 2.65e-03 -3.56e-03 -1.42e-03 3.45e-04 -4.81e-03 -1.34e-03 1.60e-04  
## 3925 1.44e-02 -6.51e-03 -3.66e-03 -1.28e-02 9.91e-03 5.63e-03 -3.66e-03  
## 3926 3.28e-03 9.90e-03 -2.07e-02 -7.10e-03 3.76e-03 1.54e-03 7.83e-03  
## 3927 6.08e-03 4.80e-03 -8.68e-04 1.81e-03 2.45e-03 -5.25e-03 -1.27e-03  
## 3928 -2.33e-03 -5.42e-03 1.96e-03 7.93e-03 -1.05e-02 -4.95e-03 9.20e-03  
## 3929 7.96e-04 2.86e-03 1.20e-03 3.39e-03 -4.81e-03 -7.57e-03 -1.37e-03  
## 3930 2.14e-02 9.51e-03 -1.77e-03 3.92e-03 3.09e-03 1.13e-03 -7.86e-03  
## 3931 1.48e-02 -6.91e-03 -1.81e-03 2.32e-03 3.15e-03 -1.12e-02 -2.55e-03  
## 3932 -3.78e-03 -1.01e-02 -2.07e-03 2.80e-03 4.56e-03 -4.51e-03 -3.36e-03  
## 3933 1.26e-02 1.40e-02 2.30e-03 -1.99e-02 3.16e-02 -3.40e-03 -1.45e-02  
## 3934 -1.43e-02 1.12e-02 -7.69e-03 6.05e-03 2.97e-03 -9.10e-03 1.85e-02  
## 3935 1.39e-02 5.85e-03 -2.25e-04 -5.22e-03 -5.97e-03 -1.02e-02 -1.56e-03  
## 3936 1.01e-02 -1.86e-02 7.35e-03 -4.95e-03 -7.27e-03 2.15e-02 1.07e-02  
## 3937 -1.61e-02 1.16e-02 3.25e-02 6.84e-03 -1.61e-03 -1.39e-02 -6.28e-03  
## 3938 2.80e-03 -3.65e-03 6.88e-04 -3.21e-03 -3.02e-03 -5.77e-03 1.92e-04  
## 3939 1.00e-02 2.36e-02 4.35e-03 -5.37e-03 -1.04e-02 2.14e-02 -3.47e-02  
## 3940 -2.89e-02 2.06e-02 5.48e-03 -8.76e-03 -8.20e-03 -7.30e-03 -2.07e-02  
## 3941 5.27e-03 -8.65e-03 -2.06e-03 3.57e-03 3.58e-03 -3.90e-03 -4.26e-03  
## 3942 -1.08e-02 -7.88e-03 -3.40e-03 -7.09e-04 -9.72e-03 -1.18e-03 1.29e-02  
## 3943 -1.68e-03 -9.63e-03 6.36e-04 1.53e-02 -1.99e-02 3.33e-03 -1.57e-02  
## 3944 1.68e-02 -1.46e-02 -2.91e-02 -2.15e-02 8.56e-03 -8.06e-03 4.96e-03  
## 3945 -2.16e-04 -4.59e-03 1.74e-03 5.17e-03 -7.66e-03 -1.68e-03 6.68e-03  
## 3946 -7.91e-04 -2.26e-03 -1.42e-03 3.24e-03 3.91e-04 -2.66e-03 2.35e-04  
## 3947 1.85e-02 1.45e-02 -3.17e-02 -9.93e-03 4.28e-03 -1.69e-03 -1.41e-02  
## 3948 -2.34e-03 2.34e-02 3.94e-02 -3.39e-02 1.50e-02 4.95e-03 -1.66e-02  
## 3949 -4.45e-03 1.35e-02 -1.40e-02 -2.46e-02 1.82e-02 4.32e-03 1.99e-02  
## 3950 -1.65e-02 7.94e-03 1.04e-02 1.65e-02 -1.09e-02 -6.72e-03 8.90e-03  
## 3951 -1.74e-02 6.56e-03 -7.06e-03 -7.53e-03 9.21e-03 -6.85e-03 3.00e-03  
## 3952 1.00e-02 -1.50e-02 1.62e-02 2.63e-02 -1.75e-02 9.98e-03 4.86e-03  
## 3953 -2.54e-03 3.60e-03 -2.17e-03 4.55e-03 8.11e-04 3.64e-03 -1.56e-04  
## 3954 5.04e-03 -1.28e-02 -3.46e-03 4.48e-03 4.86e-03 -3.28e-03 -9.29e-03  
## 3955 -8.22e-03 -1.33e-02 -7.73e-03 4.15e-03 4.23e-03 -1.24e-02 1.76e-02  
## 3956 2.22e-03 8.38e-03 -1.53e-02 1.43e-02 -5.53e-03 2.26e-03 5.78e-03  
## 3957 1.65e-03 3.12e-03 5.00e-04 -3.63e-03 -1.91e-03 -7.83e-03 -1.33e-03  
## 3958 -1.81e-04 -3.57e-04 -7.56e-05 5.48e-05 -4.28e-04 -4.55e-04 1.65e-04  
## 3959 -1.04e-03 -1.29e-02 2.19e-02 -1.16e-02 7.84e-03 -8.86e-03 -3.14e-03  
## 3960 6.75e-06 -4.79e-04 1.43e-04 -6.99e-05 5.62e-04 7.57e-04 -1.32e-04  
## 3961 1.02e-03 -2.18e-03 -7.94e-04 -3.71e-03 3.51e-03 7.84e-04 1.63e-04  
## 3962 4.49e-04 3.28e-03 1.45e-03 3.79e-03 -5.54e-03 -8.58e-03 -1.67e-03  
## 3963 -1.51e-02 1.79e-02 -8.49e-03 -1.75e-02 -2.25e-02 -1.19e-02 2.19e-02  
## 3964 4.27e-05 2.10e-04 3.23e-05 -9.29e-05 -2.20e-04 7.60e-05 -5.56e-06  
## 3965 -4.32e-03 2.87e-02 3.08e-03 -2.05e-02 -1.99e-02 4.13e-02 4.03e-02  
## 3966 -3.88e-04 4.61e-03 -2.26e-03 4.21e-03 1.33e-03 5.58e-03 -6.33e-04  
## 3967 7.36e-03 -5.24e-03 -7.40e-04 -1.83e-03 -6.09e-03 2.01e-03 8.18e-03  
## 3968 4.18e-03 6.87e-03 -4.25e-03 -1.03e-02 1.04e-02 1.62e-03 -1.38e-02  
## 3969 7.18e-03 1.10e-02 -2.18e-02 -1.09e-02 5.50e-03 -9.27e-04 5.68e-03  
## 3970 2.11e-02 1.94e-02 1.05e-02 -5.38e-03 -5.18e-03 3.00e-02 -2.72e-02  
## 3971 3.06e-04 1.36e-03 -8.67e-04 -1.44e-03 1.83e-03 -1.12e-03 2.14e-03  
## 3972 -2.25e-02 2.08e-02 -1.42e-02 7.71e-03 6.14e-03 1.91e-02 1.98e-02  
## 3973 -2.31e-04 -4.63e-04 6.66e-05 3.29e-05 4.38e-04 -8.14e-04 5.51e-04  
## 3974 -1.23e-02 -1.44e-02 1.40e-02 -1.18e-02 -1.42e-03 -1.02e-02 1.06e-02  
## 3975 -2.43e-02 -2.15e-02 4.49e-02 1.69e-02 -8.23e-03 3.53e-03 -1.21e-02  
## 3976 1.41e-03 -1.91e-03 -4.03e-04 -4.95e-03 4.05e-03 -6.32e-03 2.39e-03  
## 3977 2.47e-02 -1.70e-02 1.02e-02 -4.38e-03 -5.73e-03 3.49e-02 -2.64e-02  
## 3978 -8.85e-04 2.90e-03 2.10e-04 -1.24e-04 2.68e-03 -5.96e-03 2.97e-03  
## 3979 1.13e-02 1.02e-02 2.13e-02 -1.51e-02 8.86e-03 -5.54e-03 -5.71e-03  
## 3980 1.50e-03 -9.18e-04 6.24e-04 1.05e-03 -1.35e-03 5.49e-04 -5.02e-04  
## 3981 1.39e-02 1.23e-02 1.07e-02 -6.17e-03 -1.79e-03 -1.16e-04 3.72e-03  
## 3982 2.49e-03 1.57e-03 -4.82e-04 1.64e-03 6.33e-04 6.92e-04 -2.83e-03  
## 3983 5.14e-03 -1.23e-02 -6.90e-04 1.86e-02 -2.74e-02 -9.73e-03 1.58e-02  
## 3984 -1.37e-02 2.05e-02 -1.70e-02 1.11e-02 3.61e-03 1.41e-02 2.19e-02  
## 3985 -1.38e-02 1.11e-02 8.85e-03 -4.73e-03 -2.58e-03 -8.34e-03 1.04e-02  
## 3986 1.82e-04 1.72e-03 5.87e-04 -2.33e-03 -7.34e-04 -2.88e-04 2.48e-03  
## 3987 5.30e-03 6.13e-03 -1.92e-03 -1.40e-02 1.19e-02 -3.51e-03 6.05e-03  
## 3988 1.03e-02 1.87e-02 -3.23e-02 1.73e-02 -1.21e-02 1.23e-02 1.87e-03  
## 3989 1.16e-02 -2.08e-02 4.67e-03 -3.81e-02 4.84e-02 -8.43e-03 -2.88e-02  
## 3990 -1.24e-03 1.48e-03 2.68e-05 8.73e-04 1.17e-03 -1.25e-03 3.97e-04  
## 3991 -1.37e-03 -1.22e-03 -8.57e-04 -1.36e-03 1.71e-03 7.52e-04 3.98e-04  
## 3992 2.02e-04 2.20e-03 -3.09e-04 -1.13e-03 -2.51e-03 3.34e-03 -3.46e-04  
## 3993 1.58e-02 1.15e-02 -2.51e-02 -7.00e-03 3.62e-03 3.58e-03 -1.19e-02  
## 3994 1.12e-03 -1.84e-02 3.34e-02 2.27e-02 -9.76e-03 7.11e-03 -1.09e-02  
## 3995 3.81e-03 8.10e-03 -2.80e-03 -1.43e-03 -9.24e-03 -1.01e-02 -8.62e-04  
## 3996 -5.47e-03 -4.69e-03 1.00e-04 -5.61e-04 4.76e-03 9.09e-04 6.41e-03  
## 3997 -2.53e-04 -3.94e-04 -1.32e-05 2.91e-04 2.70e-04 1.67e-04 1.21e-04  
## 3998 -3.47e-03 -5.15e-03 2.39e-03 5.16e-03 -7.51e-03 -1.55e-03 7.18e-03  
## 3999 -4.27e-02 -2.26e-02 7.79e-03 -6.50e-03 -1.03e-02 3.53e-02 4.63e-02  
## dfb.MltL dfb.IntS dfb.OnlB dfb.OnlS dfb.DvcP dfb.TchS dfb.StTV  
## 1 4.49e-03 4.95e-03 -2.29e-02 1.08e-02 8.08e-03 9.58e-03 7.15e-03  
## 2 -3.08e-03 5.74e-03 4.00e-03 -4.61e-03 -6.28e-03 5.77e-03 2.39e-03  
## 3 5.48e-03 -2.04e-02 4.20e-02 4.14e-02 -5.72e-03 -1.88e-02 -1.38e-04  
## 4 -1.32e-04 -1.66e-03 2.50e-03 -2.16e-03 -2.61e-03 -2.47e-03 1.86e-03  
## 5 1.46e-02 1.77e-04 -9.05e-03 -6.76e-03 -6.85e-03 -5.91e-03 -1.35e-02  
## 6 -1.12e-02 4.83e-03 -3.69e-03 6.02e-05 1.55e-02 -3.95e-03 7.36e-03  
## 7 1.74e-02 -6.17e-03 -2.65e-02 7.29e-03 1.26e-02 8.24e-03 -2.54e-02  
## 8 3.45e-03 7.83e-04 8.80e-03 -1.61e-02 7.07e-03 9.50e-03 4.12e-03  
## 9 -1.42e-02 1.51e-02 -1.49e-02 -8.59e-03 1.92e-02 3.16e-02 7.97e-03  
## 10 3.00e-03 -3.77e-03 2.46e-03 2.19e-03 -2.60e-03 -3.85e-03 -1.17e-03  
## 11 -4.66e-03 1.32e-02 6.75e-03 -1.55e-02 3.69e-03 7.77e-03 2.10e-03  
## 12 -3.27e-04 -7.96e-04 -1.58e-04 1.77e-04 2.04e-04 5.40e-04 -7.95e-05  
## 13 2.30e-03 3.70e-03 1.47e-02 1.11e-02 -5.35e-03 1.24e-02 -1.85e-03  
## 14 -1.11e-02 9.39e-03 2.27e-02 -1.22e-02 2.25e-02 -1.70e-02 1.23e-02  
## 15 -1.71e-02 -2.66e-02 1.31e-02 -2.78e-02 -1.69e-02 -2.35e-02 -8.91e-03  
## 16 -4.14e-04 1.76e-03 2.73e-04 8.25e-04 -3.45e-05 6.26e-04 -1.75e-04  
## 17 -3.86e-04 -4.94e-04 -2.58e-05 -3.72e-05 -7.52e-05 -1.14e-04 -1.49e-04  
## 18 1.04e-04 3.09e-05 3.80e-03 -1.30e-03 -1.86e-04 3.91e-03 1.42e-04  
## 19 1.08e-02 -2.89e-02 -1.91e-02 -3.15e-02 4.72e-02 4.42e-02 -1.45e-02  
## 20 -2.15e-02 -1.23e-02 -2.66e-02 8.69e-03 -2.71e-02 1.11e-02 2.95e-02  
## 21 -4.81e-03 -4.98e-03 -7.73e-03 -5.32e-03 2.68e-02 -8.31e-03 -1.80e-02  
## 22 -7.25e-04 -2.82e-03 -7.01e-04 -3.76e-04 -1.36e-04 -1.19e-04 -8.45e-04  
## 23 -3.92e-04 2.81e-02 8.18e-03 9.79e-03 8.56e-03 9.33e-03 1.12e-02  
## 24 8.07e-04 1.40e-03 -7.59e-04 1.32e-03 9.05e-04 -8.37e-04 6.37e-04  
## 25 1.23e-03 -7.05e-04 1.62e-03 1.44e-03 -1.20e-03 2.21e-03 -4.25e-04  
## 26 -4.44e-03 6.22e-03 -9.75e-03 -1.03e-02 2.75e-03 5.72e-03 3.58e-04  
## 27 -9.83e-03 1.25e-03 2.06e-02 -1.40e-02 -2.66e-02 -1.43e-02 1.22e-02  
## 28 -7.76e-03 -8.22e-03 3.42e-02 -2.18e-02 -1.50e-02 -1.72e-02 -1.22e-02  
## 29 -2.74e-03 -2.51e-03 2.12e-03 2.41e-03 1.54e-03 1.51e-03 2.47e-03  
## 30 1.19e-02 -3.93e-02 -1.17e-02 -1.12e-02 -1.49e-02 -1.58e-02 2.84e-02  
## 31 1.14e-04 -9.60e-04 -2.51e-04 -6.84e-04 -6.59e-04 -9.64e-04 1.87e-03  
## 32 -2.83e-02 -1.52e-02 7.15e-03 -3.48e-03 -4.06e-02 5.61e-03 -2.12e-02  
## 33 -6.52e-04 3.83e-04 -1.46e-03 -9.80e-04 -1.70e-03 -1.20e-03 7.99e-04  
## 34 -1.28e-04 -6.41e-03 -1.74e-03 -2.11e-03 -1.67e-03 -1.87e-03 -2.68e-03  
## 35 -6.66e-03 2.78e-02 6.97e-03 9.53e-03 5.45e-03 7.00e-03 1.31e-03  
## 36 -3.54e-04 1.58e-03 1.87e-04 8.69e-04 -5.60e-03 1.36e-03 1.70e-03  
## 37 1.56e-02 1.72e-04 -9.48e-03 -6.76e-03 -7.36e-03 -5.99e-03 -1.39e-02  
## 38 -1.86e-02 4.04e-04 1.48e-02 1.05e-02 -1.67e-02 8.19e-03 1.46e-02  
## 39 -1.22e-02 1.01e-02 2.23e-02 -6.20e-03 2.04e-02 -1.11e-02 9.57e-03  
## 40 -1.28e-02 5.65e-03 -4.72e-03 -1.53e-04 1.79e-02 -4.88e-03 9.40e-03  
## 41 -4.08e-03 1.60e-02 -1.25e-02 1.00e-02 5.43e-03 9.11e-03 3.85e-03  
## 42 -1.14e-03 -2.41e-03 1.00e-03 1.12e-03 -1.80e-03 -2.34e-03 2.19e-03  
## 43 -7.86e-04 -2.15e-03 -1.69e-04 1.78e-04 -1.14e-04 4.12e-05 -2.57e-04  
## 44 -2.24e-03 -1.48e-03 1.67e-03 1.63e-03 1.89e-03 1.24e-03 3.00e-03  
## 45 2.09e-02 1.65e-03 -2.00e-02 -2.06e-02 6.40e-03 -2.05e-02 -2.57e-02  
## 46 7.09e-03 5.28e-03 1.78e-02 1.05e-02 1.54e-02 8.08e-03 2.51e-02  
## 47 -3.67e-03 1.93e-02 -2.00e-02 9.65e-03 4.25e-03 8.38e-03 1.74e-03  
## 48 1.23e-02 1.58e-03 -6.49e-03 -3.14e-03 -7.42e-03 -5.19e-03 1.65e-02  
## 49 2.72e-03 3.03e-03 2.99e-03 -2.50e-03 3.86e-03 -1.69e-03 -2.45e-03  
## 50 -3.62e-03 -4.26e-03 -5.40e-03 2.16e-03 4.03e-03 2.85e-03 -3.42e-03  
## 51 8.54e-03 1.58e-04 -1.85e-02 8.52e-03 1.52e-02 6.11e-03 -2.31e-02  
## 52 1.74e-02 2.13e-02 2.69e-02 3.54e-02 -1.42e-02 -1.12e-02 1.69e-02  
## 53 1.71e-02 8.08e-03 7.86e-03 -2.04e-02 7.01e-03 -2.21e-02 -2.52e-02  
## 54 -1.20e-02 3.70e-03 2.05e-02 -3.14e-03 -4.88e-03 -4.46e-04 -9.22e-03  
## 55 8.23e-04 -3.48e-04 6.62e-04 7.12e-04 7.99e-04 8.25e-04 -9.07e-04  
## 56 -8.47e-03 -4.29e-05 -5.91e-03 1.55e-05 -8.82e-03 -1.89e-03 9.03e-03  
## 57 1.33e-03 2.04e-04 1.33e-02 -9.14e-03 1.34e-02 1.06e-02 -2.64e-03  
## 58 1.28e-03 -3.28e-03 -3.24e-03 8.48e-03 -3.21e-03 -8.79e-03 -6.48e-04  
## 59 1.79e-03 -4.93e-04 -5.44e-06 1.84e-04 1.20e-04 2.05e-04 -2.87e-07  
## 60 -1.25e-04 5.81e-04 8.75e-03 7.26e-03 -2.24e-05 -2.24e-03 1.50e-03  
## 61 6.92e-03 2.93e-04 1.94e-02 9.75e-03 -1.61e-02 1.15e-02 -6.65e-03  
## 62 3.20e-03 6.49e-04 -7.97e-03 8.83e-03 1.23e-02 7.55e-03 -1.26e-02  
## 63 8.42e-04 2.00e-04 1.46e-03 1.30e-03 1.64e-03 -2.68e-03 -1.57e-03  
## 64 -3.62e-03 8.72e-03 5.56e-03 8.52e-03 -1.06e-02 -8.74e-03 5.14e-03  
## 65 -1.26e-02 9.98e-04 -5.33e-03 -2.44e-03 -1.03e-02 -4.81e-03 1.06e-02  
## 66 -4.33e-03 1.01e-02 -2.91e-02 7.41e-03 1.07e-02 -2.63e-02 -2.30e-02  
## 67 5.62e-03 2.91e-03 -1.12e-02 1.16e-02 1.15e-02 9.39e-03 1.39e-02  
## 68 -3.11e-03 5.31e-03 -6.06e-03 6.47e-03 -3.75e-03 -3.04e-03 -3.81e-03  
## 69 1.46e-03 1.27e-03 -1.50e-04 -5.90e-04 -3.47e-04 -5.15e-04 -5.87e-06  
## 70 -1.64e-02 -1.74e-02 1.20e-02 -3.24e-02 -3.06e-02 1.11e-02 1.66e-02  
## 71 -2.64e-03 1.43e-02 5.85e-03 1.03e-02 5.20e-03 -1.78e-02 3.08e-03  
## 72 -7.49e-04 -9.31e-04 9.29e-06 -1.45e-04 -2.04e-04 -2.77e-04 -1.57e-04  
## 73 4.68e-04 -3.04e-03 8.56e-03 -3.85e-03 -6.41e-04 -3.17e-03 3.93e-04  
## 74 -5.33e-04 2.15e-04 -1.47e-06 1.86e-05 6.18e-06 1.39e-05 2.10e-05  
## 75 -2.59e-03 4.00e-03 5.35e-03 -1.70e-02 6.16e-03 -1.65e-02 7.74e-03  
## 76 2.89e-03 -5.55e-03 -6.09e-03 -1.17e-02 -5.38e-03 1.17e-02 -3.97e-03  
## 77 -5.75e-03 1.31e-02 5.59e-03 6.97e-03 6.04e-03 6.69e-03 6.02e-03  
## 78 -2.87e-03 7.98e-03 -1.26e-02 -1.11e-02 3.39e-03 7.24e-03 9.33e-04  
## 79 -8.49e-03 1.02e-02 -1.91e-02 -2.36e-02 8.84e-03 8.40e-03 -2.06e-02  
## 80 5.28e-03 -2.50e-03 -1.27e-04 -7.04e-04 -6.58e-04 -9.96e-04 -5.54e-04  
## 81 1.26e-02 1.50e-03 -7.47e-03 -4.26e-03 -7.67e-03 -6.01e-03 1.75e-02  
## 82 3.29e-03 -2.24e-03 9.22e-03 -2.36e-02 1.42e-02 1.27e-02 -1.77e-02  
## 83 1.74e-02 5.61e-03 -1.01e-02 -7.68e-03 2.80e-02 -7.20e-03 -1.69e-02  
## 84 -1.65e-02 -1.39e-02 -1.19e-02 8.94e-03 -1.08e-02 -1.75e-02 -5.35e-03  
## 85 -2.12e-04 -1.93e-04 -2.32e-06 4.79e-06 2.07e-05 4.06e-05 -1.09e-05  
## 86 2.67e-02 -1.45e-02 -4.47e-02 -3.65e-04 1.78e-02 8.11e-03 -2.34e-02  
## 87 -6.40e-03 1.07e-02 6.77e-03 -9.31e-03 6.73e-03 8.92e-03 -1.29e-02  
## 88 1.46e-03 1.22e-03 -2.37e-04 -6.65e-04 -4.28e-04 -6.05e-04 -8.04e-05  
## 89 -2.98e-04 -2.59e-04 2.77e-05 5.73e-05 2.23e-05 8.77e-05 4.68e-05  
## 90 1.04e-04 9.39e-03 9.51e-03 8.91e-03 1.05e-02 7.75e-03 -2.17e-02  
## 91 -1.58e-02 -5.79e-03 -1.27e-02 1.14e-02 -1.61e-02 8.40e-03 1.39e-02  
## 92 -1.79e-02 -1.18e-02 1.15e-02 1.13e-02 1.16e-02 -4.15e-02 1.66e-02  
## 93 -1.62e-03 -2.01e-03 -2.62e-03 1.25e-03 9.21e-04 8.62e-04 1.11e-03  
## 94 2.06e-03 -7.11e-03 -4.34e-03 -1.14e-02 -5.95e-03 9.43e-03 -3.76e-03  
## 95 3.81e-04 1.59e-03 -1.67e-03 5.63e-03 -1.19e-03 7.17e-03 -1.45e-04  
## 96 -1.83e-02 1.05e-02 -1.12e-02 3.21e-02 -7.23e-03 -7.25e-03 -1.20e-02  
## 97 -2.87e-03 -2.65e-03 2.18e-03 2.29e-03 -3.30e-03 3.54e-03 -1.94e-03  
## 98 1.32e-03 2.85e-02 7.49e-03 9.53e-03 8.29e-03 9.68e-03 1.06e-02  
## 99 1.20e-03 1.11e-03 -5.12e-05 -2.86e-04 -2.95e-04 -4.33e-04 9.96e-05  
## 100 2.07e-02 9.32e-03 2.29e-02 -3.51e-03 2.02e-02 -6.63e-03 1.12e-02  
## 101 8.61e-05 -6.69e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.22e-03 -2.65e-03  
## 102 -1.43e-04 -5.42e-03 -1.20e-03 -1.22e-03 -1.57e-03 -1.79e-03 -1.92e-03  
## 103 7.44e-03 -5.37e-03 1.27e-02 1.17e-02 -9.76e-03 -1.42e-02 -8.89e-03  
## 104 -3.04e-03 2.43e-03 -5.83e-03 5.85e-03 -6.07e-03 5.25e-03 -8.41e-03  
## 105 -2.75e-03 1.02e-02 9.43e-03 -5.24e-02 2.33e-03 1.97e-02 -6.32e-03  
## 106 4.01e-03 1.06e-02 9.73e-03 1.14e-02 8.62e-03 9.49e-03 6.77e-03  
## 107 4.66e-04 -1.10e-03 -1.66e-03 -5.11e-03 8.80e-03 7.12e-03 -1.63e-03  
## 108 1.75e-04 2.39e-03 7.04e-03 -8.46e-03 6.37e-03 8.44e-03 4.23e-03  
## 109 7.55e-03 7.78e-03 1.66e-02 1.25e-02 2.16e-02 1.49e-02 -6.63e-03  
## 110 3.64e-03 2.42e-03 -3.94e-04 -9.66e-04 -5.35e-04 -4.18e-04 1.28e-04  
## 111 -9.75e-03 1.67e-02 1.92e-02 3.83e-02 -2.89e-02 -2.02e-02 3.11e-02  
## 112 1.95e-03 -1.92e-03 -2.81e-03 1.88e-03 3.12e-03 2.39e-03 -1.35e-03  
## 113 -2.06e-02 -5.60e-03 -1.29e-02 1.02e-02 -1.66e-02 1.09e-02 -1.34e-02  
## 114 -8.26e-03 -6.92e-03 -1.85e-02 -1.02e-02 -1.22e-02 -3.15e-03 -1.71e-02  
## 115 -1.43e-03 6.42e-04 -2.77e-03 4.56e-03 5.38e-03 -2.78e-03 -1.82e-03  
## 116 -1.52e-02 -2.18e-02 -2.93e-02 -3.34e-02 1.18e-02 1.09e-02 -2.71e-02  
## 117 -5.54e-04 2.17e-03 4.92e-03 -4.11e-03 5.20e-03 7.07e-03 3.46e-03  
## 118 -1.39e-02 1.11e-02 -6.98e-03 2.86e-02 -1.06e-02 -6.49e-03 1.17e-02  
## 119 -8.45e-05 -8.11e-05 2.67e-06 3.20e-05 2.20e-05 4.67e-05 1.39e-06  
## 120 1.28e-02 -1.29e-02 -1.78e-02 1.14e-02 1.00e-02 -2.89e-02 1.51e-02  
## 121 2.97e-03 3.88e-03 1.70e-02 1.18e-02 -7.62e-03 1.37e-02 -1.29e-03  
## 122 -3.94e-04 -6.35e-03 -1.57e-03 -1.97e-03 -1.98e-03 -2.19e-03 -2.48e-03  
## 123 -1.47e-02 -7.10e-05 -6.61e-03 -3.80e-03 -4.92e-03 -3.09e-03 -1.08e-02  
## 124 -3.85e-03 1.28e-02 6.47e-03 -1.26e-02 4.33e-03 8.22e-03 1.94e-03  
## 125 -4.34e-04 -5.74e-03 -1.14e-03 -1.23e-03 -1.63e-03 -1.98e-03 -1.74e-03  
## 126 -1.16e-02 -6.62e-03 1.09e-02 -9.65e-03 1.28e-02 -7.47e-03 -7.43e-03  
## 127 -1.31e-02 -1.72e-04 -1.37e-02 -6.69e-03 2.88e-02 -3.56e-03 -1.59e-02  
## 128 -1.11e-03 4.68e-04 1.48e-05 1.04e-04 1.05e-05 9.75e-05 1.22e-04  
## 129 1.47e-04 -6.53e-03 -1.95e-03 -2.31e-03 -2.04e-03 -2.20e-03 -2.68e-03  
## 130 -3.65e-03 -1.79e-04 -5.97e-03 -9.35e-03 8.59e-03 6.87e-03 -6.94e-03  
## 131 2.15e-02 1.23e-04 1.43e-02 7.31e-03 1.61e-02 8.27e-03 3.43e-02  
## 132 -4.37e-03 2.09e-02 3.63e-02 4.43e-02 3.26e-02 -2.28e-02 2.96e-02  
## 133 3.46e-03 -5.80e-03 -3.82e-03 -5.22e-03 -3.62e-03 2.54e-03 -2.35e-03  
## 134 -5.14e-03 -1.01e-02 -1.00e-02 -9.18e-03 -1.32e-02 -1.20e-02 -1.93e-02  
## 135 8.91e-03 -4.76e-02 -1.25e-02 -1.97e-02 -9.81e-03 -1.68e-02 -4.80e-03  
## 136 4.34e-03 -1.44e-03 -6.44e-05 -1.82e-04 1.05e-05 2.89e-04 -1.10e-04  
## 137 -1.78e-02 -9.01e-03 1.37e-02 -2.42e-02 9.44e-03 9.55e-03 1.20e-02  
## 138 2.19e-03 1.33e-03 -3.69e-04 -8.27e-04 -3.90e-04 -4.60e-04 -1.57e-04  
## 139 5.50e-04 4.73e-04 -5.48e-05 -5.47e-05 -4.35e-06 -1.31e-04 -4.31e-05  
## 140 1.33e-02 -1.11e-03 -7.01e-03 -4.02e-03 -5.38e-03 -1.62e-03 -1.05e-02  
## 141 -2.34e-03 -2.64e-03 1.73e-03 2.21e-03 1.56e-03 1.83e-03 2.39e-03  
## 142 -4.31e-02 -1.24e-02 -1.13e-02 3.74e-02 -1.53e-02 3.91e-02 -1.61e-02  
## 143 6.89e-04 4.62e-03 -5.40e-03 1.18e-02 1.75e-02 1.42e-02 -1.17e-03  
## 144 1.79e-03 -1.87e-03 -3.34e-03 -6.10e-03 6.26e-03 6.16e-03 6.12e-03  
## 145 -9.35e-04 3.21e-04 6.96e-06 6.15e-05 -4.62e-05 1.89e-04 1.85e-04  
## 146 2.90e-04 -7.57e-04 -2.99e-04 -6.70e-04 1.96e-03 -7.21e-04 -7.20e-04  
## 147 -2.04e-04 -3.65e-03 -1.04e-03 -5.26e-04 -4.00e-04 2.28e-04 -9.69e-04  
## 148 8.66e-03 -4.15e-02 -1.11e-02 -1.44e-02 -7.03e-03 -1.38e-02 -5.53e-03  
## 149 -3.81e-03 8.94e-03 -7.74e-03 6.39e-03 -7.80e-03 7.42e-03 -9.46e-03  
## 150 -3.92e-03 5.64e-03 -1.67e-02 8.33e-03 -1.66e-02 -1.67e-02 1.08e-02  
## 151 -5.51e-03 1.60e-02 6.55e-03 8.69e-03 1.09e-02 -2.39e-02 -1.89e-02  
## 152 -1.22e-02 1.31e-03 -4.29e-03 -1.60e-03 -9.35e-03 -4.10e-03 9.70e-03  
## 153 4.26e-04 -1.50e-03 -8.30e-04 -3.07e-03 -1.26e-03 5.15e-03 -5.60e-04  
## 154 5.43e-03 -3.20e-03 3.39e-03 2.45e-03 2.08e-03 1.49e-03 3.32e-03  
## 155 -3.80e-04 -5.15e-03 -1.08e-03 -1.17e-03 -1.58e-03 -1.90e-03 -1.77e-03  
## 156 -2.46e-02 -1.29e-03 1.46e-02 1.04e-02 1.60e-02 9.74e-03 3.11e-02  
## 157 1.72e-02 1.16e-03 1.54e-02 6.84e-03 1.45e-02 8.01e-03 -2.79e-02  
## 158 -6.78e-04 -1.83e-03 -2.50e-04 -1.36e-05 -1.57e-04 -1.21e-04 -3.03e-04  
## 159 -3.03e-03 8.56e-03 4.59e-03 -6.44e-03 -7.15e-03 1.03e-02 -9.16e-03  
## 160 8.22e-03 -2.46e-03 -7.94e-04 1.64e-05 3.90e-04 1.16e-03 -3.47e-04  
## 161 -3.88e-03 8.19e-03 -1.37e-02 -1.37e-02 3.05e-03 8.06e-03 1.38e-03  
## 162 -1.69e-02 1.02e-02 -1.67e-02 3.11e-02 -1.33e-02 -1.03e-02 -1.63e-02  
## 163 -2.10e-02 -3.20e-05 1.30e-02 9.73e-03 9.76e-03 8.51e-03 1.93e-02  
## 164 1.64e-03 1.86e-03 -1.54e-03 2.10e-03 -1.38e-03 -1.20e-03 2.09e-03  
## 165 -6.96e-04 -2.64e-03 -3.30e-04 1.62e-04 -1.70e-04 1.11e-04 -3.27e-04  
## 166 2.18e-03 1.34e-03 -1.15e-04 -4.25e-04 -3.56e-04 -1.98e-04 9.52e-05  
## 167 1.63e-02 9.15e-04 -9.93e-03 -7.32e-03 -7.68e-03 -6.48e-03 -1.38e-02  
## 168 -3.15e-03 -2.69e-03 2.53e-03 2.82e-03 1.82e-03 1.78e-03 2.99e-03  
## 169 9.91e-03 -3.29e-03 3.24e-02 -1.52e-02 3.57e-02 -1.14e-02 -2.87e-02  
## 170 -8.74e-04 -4.33e-03 -7.08e-04 -9.18e-04 -1.23e-03 -1.70e-03 -1.48e-03  
## 171 -8.71e-03 -7.35e-03 7.98e-03 -6.70e-03 -6.55e-03 -7.40e-03 8.20e-03  
## 172 -1.35e-02 1.31e-02 -2.85e-03 -7.08e-04 1.59e-02 2.24e-02 7.28e-03  
## 173 -4.52e-03 8.20e-03 -1.38e-02 1.06e-02 -7.83e-03 -6.89e-03 -7.21e-03  
## 174 4.53e-02 -5.14e-03 -3.44e-02 -2.44e-02 1.57e-02 -3.07e-02 4.37e-03  
## 175 -6.73e-04 -1.36e-03 -1.57e-04 -1.07e-04 -1.20e-04 -9.02e-05 -4.29e-04  
## 176 9.50e-03 -4.95e-03 -1.33e-03 -2.22e-03 -1.98e-03 -3.47e-03 -2.62e-03  
## 177 -1.17e-02 -3.13e-03 -9.19e-03 -4.23e-03 -5.71e-03 -1.20e-03 -1.09e-02  
## 178 1.93e-02 1.19e-02 -1.23e-02 3.19e-02 -1.01e-02 -7.62e-03 -1.18e-02  
## 179 2.17e-02 -1.86e-02 -3.66e-02 4.02e-03 -3.16e-02 1.05e-02 -1.51e-02  
## 180 -6.17e-04 -7.14e-04 -5.41e-05 -2.12e-04 -1.39e-04 -2.79e-04 -1.97e-04  
## 181 -7.64e-03 -7.07e-03 3.46e-02 -1.99e-02 -1.43e-02 -1.76e-02 -9.21e-03  
## 182 -5.04e-03 2.68e-02 7.37e-03 1.15e-02 5.42e-03 9.50e-03 3.29e-03  
## 183 -1.50e-02 1.20e-03 -6.75e-03 -4.86e-03 -1.03e-02 -5.11e-03 -1.91e-02  
## 184 -4.11e-03 6.46e-03 4.63e-03 -7.11e-03 -5.81e-03 8.02e-03 -6.29e-03  
## 185 1.87e-02 1.13e-02 2.67e-02 -9.67e-03 3.18e-02 -9.69e-03 -1.83e-02  
## 186 -4.91e-03 -1.49e-02 -1.44e-02 -1.47e-02 -1.17e-02 -1.26e-02 -1.10e-02  
## 187 -6.85e-03 1.88e-02 -1.73e-02 8.96e-03 4.33e-03 7.68e-03 3.17e-03  
## 188 4.44e-03 5.63e-04 8.92e-03 1.17e-02 8.81e-03 -1.95e-02 6.93e-03  
## 189 -6.39e-04 -2.88e-03 -6.19e-04 -2.80e-04 -3.37e-04 6.56e-05 -8.57e-04  
## 190 9.20e-03 1.43e-02 -9.93e-03 7.95e-03 4.44e-03 4.91e-03 1.90e-03  
## 191 5.11e-03 4.04e-03 4.60e-03 -4.55e-03 4.71e-03 -4.94e-03 4.83e-03  
## 192 1.41e-02 1.22e-02 2.47e-02 -3.73e-03 2.26e-02 -6.31e-03 -2.20e-02  
## 193 3.58e-03 2.33e-03 -5.55e-04 -1.17e-03 -6.23e-04 -6.23e-04 9.49e-05  
## 194 -8.45e-06 4.18e-05 2.35e-05 1.18e-04 5.69e-06 -4.78e-04 -1.46e-05  
## 195 2.35e-03 1.80e-03 -2.44e-04 -7.83e-04 -4.89e-04 -5.78e-04 2.66e-05  
## 196 -1.64e-02 -2.63e-02 -1.95e-02 -2.52e-02 1.33e-02 -2.55e-02 -1.98e-02  
## 197 6.01e-03 -1.95e-03 -4.07e-04 -2.35e-04 -1.09e-05 4.36e-04 -8.64e-05  
## 198 3.65e-03 -8.72e-03 -6.28e-03 9.45e-03 -6.80e-03 -1.40e-02 -2.45e-03  
## 199 -2.49e-05 -5.51e-04 -2.13e-04 3.47e-03 2.32e-05 -9.93e-04 6.87e-04  
## 200 1.03e-04 -6.01e-03 -1.32e-03 -1.54e-03 -1.80e-03 -1.71e-03 -1.88e-03  
## 201 -1.89e-02 -1.67e-02 1.44e-02 -2.10e-02 2.04e-02 -1.76e-02 -6.61e-03  
## 202 -1.64e-02 -1.63e-02 -2.20e-02 1.15e-02 9.97e-03 -3.03e-02 1.53e-02  
## 203 1.18e-04 2.35e-04 4.30e-03 -1.45e-03 -1.94e-04 4.33e-03 2.22e-04  
## 204 -2.11e-02 -8.26e-04 1.37e-02 7.73e-03 1.32e-02 9.60e-03 -2.51e-02  
## 205 -1.68e-02 3.51e-03 1.27e-02 1.04e-02 9.57e-03 6.60e-03 1.10e-02  
## 206 -1.36e-02 -6.29e-03 -9.88e-03 1.18e-02 1.05e-02 -1.40e-02 1.25e-02  
## 207 1.37e-03 2.27e-03 2.09e-03 2.05e-03 1.94e-03 1.91e-03 -5.25e-03  
## 208 1.37e-02 1.74e-03 -6.44e-03 -5.77e-03 -1.04e-02 -6.56e-03 -2.01e-02  
## 209 1.93e-02 3.37e-02 -1.36e-02 3.48e-02 2.21e-02 2.94e-02 1.12e-02  
## 210 -7.76e-03 -2.72e-03 -2.18e-03 5.63e-03 -1.67e-03 -4.19e-03 -3.62e-04  
## 211 9.43e-03 -4.15e-02 -1.14e-02 -1.46e-02 -7.43e-03 -1.42e-02 -5.42e-03  
## 212 4.10e-03 1.08e-02 1.05e-02 1.24e-02 9.21e-03 1.05e-02 7.25e-03  
## 213 1.79e-03 1.41e-03 -1.89e-04 -5.82e-04 -2.33e-04 -5.05e-04 -3.38e-05  
## 214 -6.10e-04 -1.24e-03 -1.02e-04 4.48e-05 -1.18e-04 -1.11e-04 -2.50e-04  
## 215 1.45e-02 3.95e-03 1.58e-02 9.11e-03 1.89e-02 4.32e-03 3.08e-02  
## 216 -1.76e-03 -4.56e-03 -7.74e-03 -1.10e-02 -7.46e-03 6.44e-03 -7.90e-03  
## 217 1.78e-03 3.68e-03 3.84e-03 2.66e-03 4.50e-03 3.76e-03 -5.40e-03  
## 218 4.48e-04 9.16e-04 8.55e-04 9.33e-04 7.73e-04 7.43e-04 1.28e-03  
## 219 -4.11e-04 -6.20e-04 3.71e-04 -7.01e-04 2.75e-04 3.09e-04 2.98e-04  
## 220 -2.35e-02 -2.60e-03 1.32e-02 6.65e-03 1.43e-02 9.88e-03 -2.94e-02  
## 221 1.53e-02 -1.09e-04 -9.60e-03 -7.14e-03 -7.15e-03 -6.11e-03 -1.38e-02  
## 222 -2.94e-03 1.07e-03 -1.79e-04 -2.91e-04 -2.97e-04 -2.85e-05 2.60e-04  
## 223 -5.27e-04 -4.86e-03 -1.06e-03 -1.07e-03 -8.32e-04 -7.76e-05 -5.44e-04  
## 224 8.90e-03 -3.46e-02 -1.49e-02 -2.57e-02 -1.39e-02 4.38e-02 -8.60e-03  
## 225 -9.45e-04 -4.36e-03 -9.94e-04 -1.30e-03 -9.26e-04 -2.33e-04 -1.25e-03  
## 226 8.49e-04 9.74e-04 1.01e-02 -2.17e-02 1.53e-02 1.59e-02 -1.40e-02  
## 227 -4.26e-03 3.29e-03 5.88e-03 -7.80e-03 -6.61e-03 -6.08e-03 -6.01e-03  
## 228 8.63e-03 -4.07e-02 -9.57e-03 -1.41e-02 -1.20e-02 -1.45e-02 4.17e-02  
## 229 1.32e-02 -9.11e-03 1.52e-02 1.05e-02 1.61e-02 -3.21e-02 2.68e-02  
## 230 2.10e-03 1.55e-03 -1.75e-03 -1.62e-03 2.81e-03 -1.17e-03 -1.74e-03  
## 231 2.55e-03 -5.08e-03 -3.52e-03 -5.55e-03 1.02e-02 -3.82e-03 -1.56e-03  
## 232 -9.71e-03 -9.57e-03 -5.41e-03 -8.62e-03 8.10e-03 -9.60e-03 1.02e-02  
## 233 1.23e-02 1.27e-02 -6.06e-03 3.00e-02 -8.51e-03 -7.37e-03 -1.83e-02  
## 234 3.07e-03 1.89e-03 -4.33e-04 -7.52e-04 -4.97e-04 -5.72e-04 2.32e-04  
## 235 1.09e-02 -5.50e-03 -1.44e-03 -2.45e-03 -2.27e-03 -3.35e-03 -2.85e-03  
## 236 -3.62e-02 -3.23e-02 3.63e-02 -1.04e-02 -3.50e-03 -9.88e-03 -2.26e-03  
## 237 2.12e-03 5.35e-03 9.34e-03 1.34e-02 1.07e-02 -9.71e-03 1.02e-02  
## 238 1.80e-02 3.15e-03 1.39e-02 8.70e-03 1.02e-02 4.91e-03 1.75e-02  
## 239 1.35e-02 5.49e-03 1.96e-02 -6.93e-04 -9.29e-03 -3.47e-03 1.08e-02  
## 240 -4.97e-04 -1.17e-03 -2.40e-04 2.96e-04 3.01e-04 8.32e-04 4.83e-07  
## 241 -2.22e-03 -4.58e-03 1.70e-03 -5.49e-03 1.06e-03 1.34e-03 1.82e-03  
## 242 4.51e-05 -1.02e-04 -9.44e-05 7.73e-04 6.98e-06 -2.07e-04 6.41e-05  
## 243 -3.24e-03 3.35e-03 4.10e-03 -4.24e-03 4.96e-03 -3.72e-03 -4.21e-03  
## 244 -1.06e-02 -4.24e-03 -3.36e-03 -6.83e-03 -4.95e-03 5.21e-03 9.32e-03  
## 245 -6.86e-03 1.84e-02 -2.21e-02 7.87e-03 -2.68e-02 6.97e-03 3.17e-03  
## 246 -1.88e-02 -1.25e-02 1.16e-02 -3.56e-02 9.90e-03 7.28e-03 1.24e-02  
## 247 1.04e-02 1.74e-02 6.74e-03 8.65e-03 -1.09e-02 9.20e-03 9.75e-03  
## 248 1.91e-02 4.27e-03 2.42e-02 -6.23e-03 -7.67e-03 -3.61e-03 -1.27e-02  
## 249 6.14e-03 -2.95e-02 -1.16e-02 3.99e-02 -6.48e-03 -1.81e-02 -1.63e-03  
## 250 7.15e-03 -9.34e-03 -1.08e-02 -1.55e-02 -1.13e-02 1.29e-02 1.89e-02  
## 251 -1.19e-02 -5.98e-03 -5.94e-03 -9.50e-03 -7.19e-03 9.77e-03 -7.18e-03  
## 252 1.75e-02 -1.04e-03 -1.20e-02 -1.25e-02 -1.03e-02 -8.11e-03 -1.69e-02  
## 253 -4.79e-03 -5.60e-03 3.09e-02 -9.21e-03 -1.37e-02 -9.12e-03 3.60e-02  
## 254 9.53e-03 5.52e-03 -8.96e-03 6.77e-03 -6.94e-03 -7.23e-03 -6.78e-03  
## 255 -6.29e-04 -7.86e-03 -2.20e-03 -3.93e-03 -3.16e-03 -3.40e-03 -2.95e-03  
## 256 -7.30e-04 -6.00e-05 -1.22e-03 2.36e-03 -7.91e-04 -1.14e-03 -6.00e-04  
## 257 1.96e-04 -6.59e-04 -1.94e-04 -3.44e-04 -4.99e-05 -2.51e-04 4.45e-05  
## 258 3.29e-03 -8.07e-03 -4.03e-03 -6.10e-03 -2.78e-03 -5.04e-03 -1.89e-03  
## 259 1.01e-02 -4.31e-02 -1.16e-02 -1.56e-02 -7.72e-03 -1.34e-02 -5.16e-03  
## 260 -1.19e-04 -4.30e-03 9.69e-03 -2.55e-02 -2.07e-02 8.02e-03 1.36e-02  
## 261 -3.87e-03 -4.75e-03 -8.27e-03 -5.67e-03 2.62e-02 -8.41e-03 -1.86e-02  
## 262 -9.55e-03 7.99e-03 1.76e-02 1.02e-03 1.50e-02 -2.22e-03 7.88e-03  
## 263 3.60e-03 1.57e-03 -1.34e-02 9.32e-03 1.55e-02 5.07e-03 2.22e-02  
## 264 2.56e-04 -3.61e-03 -6.04e-03 -5.27e-03 6.71e-03 -3.98e-03 6.76e-03  
## 265 5.27e-03 -1.12e-02 -6.78e-03 -9.08e-03 -4.71e-03 -8.07e-03 -2.86e-03  
## 266 -3.87e-03 -3.01e-03 2.62e-03 2.04e-03 1.85e-03 1.47e-03 2.77e-03  
## 267 -1.13e-04 3.96e-05 3.93e-06 -2.15e-06 -5.60e-06 -7.59e-06 9.63e-06  
## 268 -2.02e-02 -3.28e-02 -2.71e-02 -3.71e-02 1.81e-02 -3.46e-02 -1.70e-02  
## 269 2.37e-02 1.89e-02 5.69e-05 -4.62e-03 -3.22e-03 -5.60e-03 2.31e-03  
## 270 -2.81e-04 1.07e-04 -5.82e-06 1.43e-05 1.41e-06 1.89e-05 2.05e-05  
## 271 1.66e-02 9.89e-03 -9.22e-03 -3.89e-03 -1.38e-02 2.93e-02 1.08e-02  
## 272 3.03e-03 -2.83e-03 2.65e-03 1.93e-03 -3.51e-03 2.29e-03 -2.09e-03  
## 273 -6.62e-03 -1.56e-02 -1.61e-02 -1.90e-02 -1.51e-02 -1.67e-02 -1.05e-02  
## 274 1.75e-02 -2.06e-02 -3.11e-02 8.05e-03 2.27e-02 -4.35e-02 -1.63e-02  
## 275 1.52e-02 -4.69e-04 -9.63e-03 -9.36e-03 -8.92e-03 -7.23e-03 -1.46e-02  
## 276 -1.88e-02 1.70e-02 2.59e-02 -7.35e-03 -7.63e-03 3.41e-02 -1.40e-02  
## 277 -8.26e-03 5.76e-03 1.91e-02 -1.60e-02 1.99e-02 -1.82e-02 9.11e-03  
## 278 -7.56e-03 9.49e-03 -1.91e-02 -2.13e-02 6.44e-03 6.80e-03 5.71e-03  
## 279 4.71e-03 -7.85e-03 8.79e-03 7.51e-03 -1.97e-02 -2.53e-02 -1.52e-02  
## 280 -4.62e-03 1.73e-02 -1.79e-02 9.61e-03 4.47e-03 8.23e-03 1.49e-03  
## 281 -2.89e-03 8.85e-03 -1.55e-02 -1.40e-02 3.55e-03 8.38e-03 3.12e-04  
## 282 -5.17e-03 1.80e-02 -1.72e-02 1.00e-02 4.65e-03 8.19e-03 2.21e-03  
## 283 1.79e-02 -7.68e-03 -2.33e-03 -2.92e-03 -3.25e-03 -3.47e-03 -3.09e-03  
## 284 2.25e-03 3.80e-03 2.60e-03 -2.62e-03 1.42e-03 1.76e-03 4.01e-04  
## 285 2.01e-02 5.33e-03 -1.21e-02 -8.59e-03 2.01e-02 -1.15e-02 8.63e-03  
## 286 1.34e-02 7.11e-03 1.68e-02 1.41e-02 1.44e-02 1.35e-02 2.07e-02  
## 287 -7.10e-03 2.39e-02 8.01e-03 9.16e-03 4.40e-03 7.51e-03 3.03e-03  
## 288 1.63e-02 -3.58e-04 -9.62e-03 -9.65e-03 -9.64e-03 -6.67e-03 -1.46e-02  
## 289 1.61e-02 4.73e-03 2.36e-02 -4.82e-03 -6.30e-03 -2.98e-03 -1.13e-02  
## 290 1.17e-02 -4.53e-02 -1.34e-02 -1.62e-02 -8.20e-03 -1.48e-02 -5.35e-03  
## 291 -1.09e-02 -3.23e-03 -1.18e-02 -5.39e-03 -7.73e-03 -1.69e-03 -1.29e-02  
## 292 -2.08e-03 2.98e-03 -4.00e-03 -3.38e-03 -4.70e-03 4.25e-03 1.48e-03  
## 293 -1.22e-02 -9.88e-03 -1.16e-02 1.34e-02 -1.23e-02 -1.40e-02 1.55e-02  
## 294 -2.90e-02 -3.18e-03 1.11e-02 -2.95e-04 1.99e-02 6.14e-03 -2.37e-02  
## 295 -5.66e-04 -5.49e-03 -1.37e-03 -1.79e-03 -1.85e-03 -2.13e-03 -2.37e-03  
## 296 7.91e-05 -6.70e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.22e-03 -2.64e-03  
## 297 -3.62e-03 1.42e-03 3.32e-03 3.36e-03 -1.07e-03 2.91e-03 3.33e-03  
## 298 1.17e-02 -2.35e-03 1.83e-02 4.75e-03 -2.52e-02 7.37e-03 -1.26e-02  
## 299 1.45e-02 2.06e-02 9.01e-03 7.03e-03 -1.63e-02 8.78e-03 -1.39e-02  
## 300 1.45e-02 1.23e-02 -1.12e-02 3.15e-02 -7.05e-03 -9.73e-03 -1.39e-02  
## 301 -9.15e-03 2.52e-02 7.71e-03 8.60e-03 1.25e-02 1.38e-02 -1.55e-02  
## 302 -7.07e-03 9.52e-04 -2.17e-03 1.13e-03 -4.63e-03 -5.41e-04 6.64e-03  
## 303 -1.80e-02 -2.44e-02 9.71e-03 8.04e-03 -3.16e-02 -3.97e-02 3.45e-02  
## 304 1.83e-04 1.09e-05 2.81e-04 -6.28e-04 1.46e-04 2.44e-04 1.53e-04  
## 305 9.68e-03 -7.85e-04 -1.53e-02 1.18e-02 1.05e-02 7.60e-03 1.64e-02  
## 306 -3.61e-04 1.02e-04 -2.91e-06 -3.22e-05 -1.93e-05 -1.78e-05 -1.42e-06  
## 307 -1.00e-02 -5.27e-03 -1.49e-02 -7.43e-03 -1.01e-02 -1.63e-03 -1.49e-02  
## 308 -4.07e-03 8.31e-03 5.01e-03 7.97e-03 -4.40e-03 -4.14e-03 -3.82e-03  
## 309 9.01e-03 -1.67e-03 -2.03e-02 9.53e-03 2.09e-02 7.63e-03 -1.25e-02  
## 310 7.22e-03 7.68e-03 5.79e-03 -8.58e-03 -6.80e-03 8.10e-03 -6.81e-03  
## 311 -2.09e-04 -8.27e-03 -2.27e-03 -3.76e-03 -3.04e-03 -2.88e-03 -3.39e-03  
## 312 -1.62e-02 -2.01e-02 1.25e-02 -2.48e-02 1.34e-02 -2.54e-02 2.16e-02  
## 313 4.17e-03 -8.50e-03 -5.18e-03 -6.16e-03 -2.54e-03 -3.89e-03 -1.15e-03  
## 314 -2.57e-02 2.42e-03 1.38e-02 7.94e-03 1.05e-02 3.25e-03 1.87e-02  
## 315 1.36e-02 1.63e-03 -7.29e-03 -3.35e-03 -8.40e-03 -5.62e-03 1.75e-02  
## 316 2.56e-03 -5.90e-03 -3.31e-03 -5.13e-03 9.44e-03 -5.19e-03 -1.99e-03  
## 317 1.35e-03 1.04e-03 -2.69e-05 7.31e-05 2.73e-06 -5.98e-05 1.25e-04  
## 318 2.61e-02 -1.72e-02 3.88e-02 3.34e-02 -4.62e-02 3.07e-02 4.07e-02  
## 319 1.95e-02 3.67e-03 -9.67e-03 -2.23e-03 1.88e-02 -5.28e-03 1.00e-02  
## 320 1.04e-02 -7.48e-03 1.72e-02 1.10e-02 1.66e-02 -3.02e-02 -1.74e-02  
## 321 -3.80e-02 -2.48e-02 3.67e-02 4.05e-02 -4.45e-02 4.02e-02 4.87e-02  
## 322 -5.78e-04 -3.74e-05 -8.16e-04 1.67e-03 -5.38e-04 -8.03e-04 -4.05e-04  
## 323 -5.54e-03 2.79e-02 7.24e-03 9.50e-03 4.54e-03 9.16e-03 3.38e-03  
## 324 -3.07e-03 1.15e-02 5.30e-03 -7.91e-03 4.68e-03 8.76e-03 2.56e-03  
## 325 9.99e-05 1.26e-04 1.77e-04 2.11e-04 -3.94e-04 1.44e-04 1.74e-04  
## 326 5.73e-03 -8.18e-03 -1.08e-02 9.43e-03 1.62e-02 -2.04e-02 -7.00e-03  
## 327 -2.27e-02 -1.28e-02 1.33e-02 7.32e-03 1.52e-02 -4.57e-02 -2.83e-02  
## 328 1.37e-02 -7.37e-04 -7.53e-03 -4.10e-03 -5.38e-03 -2.36e-03 -1.05e-02  
## 329 -1.88e-03 1.18e-02 1.30e-02 8.57e-03 1.14e-02 6.46e-03 -2.69e-02  
## 330 1.82e-02 -3.42e-03 1.66e-02 7.85e-03 -3.87e-02 4.81e-03 2.28e-02  
## 331 -6.98e-04 -7.41e-04 4.41e-05 1.71e-04 8.31e-05 3.38e-04 1.54e-04  
## 332 -6.81e-04 -4.73e-03 -1.22e-03 -1.50e-03 -1.22e-03 -2.28e-04 -1.15e-03  
## 333 6.29e-03 -1.63e-03 -1.12e-02 1.06e-02 -1.27e-02 1.30e-02 -1.07e-02  
## 334 -1.48e-02 -1.02e-03 -8.07e-03 -5.01e-03 -5.51e-03 -3.67e-03 -1.16e-02  
## 335 -1.68e-02 3.46e-03 -7.09e-03 -6.47e-03 2.53e-02 -5.35e-03 -1.39e-02  
## 336 -3.19e-02 -4.40e-02 2.84e-02 -5.50e-02 3.47e-02 3.97e-02 -5.28e-02  
## 337 -1.11e-02 -2.05e-03 2.07e-02 -2.45e-02 1.40e-02 -3.61e-02 1.98e-03  
## 338 -2.77e-03 -2.32e-03 1.93e-03 2.13e-03 1.59e-03 1.20e-03 2.30e-03  
## 339 -2.39e-02 -4.13e-03 -1.85e-02 8.96e-03 1.87e-02 1.19e-02 -1.09e-02  
## 340 -6.36e-03 3.70e-03 1.78e-02 -2.05e-02 2.01e-02 -2.20e-02 9.91e-03  
## 341 -4.34e-03 6.77e-03 -7.98e-03 6.42e-03 3.60e-03 -1.09e-02 1.06e-03  
## 342 -5.49e-03 -5.12e-03 3.95e-03 3.40e-03 2.60e-03 2.43e-03 5.20e-03  
## 343 9.16e-04 9.08e-04 -8.40e-04 -1.10e-03 -1.52e-03 9.36e-04 4.38e-04  
## 344 4.69e-04 5.18e-04 1.30e-05 5.50e-05 7.24e-05 1.56e-04 1.63e-04  
## 345 -8.95e-04 -1.54e-03 -4.23e-05 -2.66e-04 -3.59e-04 -2.44e-04 -3.01e-04  
## 346 2.78e-02 2.82e-03 1.11e-02 3.69e-03 7.02e-03 2.23e-04 1.68e-02  
## 347 1.03e-02 2.63e-03 -3.95e-03 -8.24e-04 -7.98e-03 -4.42e-03 8.47e-03  
## 348 2.93e-03 1.94e-03 -1.51e-04 -5.75e-04 -4.42e-04 -2.78e-04 3.78e-04  
## 349 6.73e-04 9.42e-03 1.10e-02 7.18e-03 1.55e-02 1.14e-02 -1.99e-02  
## 350 -7.50e-03 -2.10e-03 -1.57e-03 -3.35e-03 -2.05e-03 5.19e-03 7.18e-03  
## 351 1.93e-03 1.24e-03 1.37e-03 -1.19e-03 -1.76e-03 -1.17e-03 1.04e-03  
## 352 -4.67e-03 1.90e-02 6.38e-03 9.94e-03 5.50e-03 9.06e-03 4.24e-03  
## 353 -2.90e-02 -3.15e-03 1.09e-02 -4.00e-04 1.97e-02 5.90e-03 -2.38e-02  
## 354 -1.80e-02 1.18e-02 2.59e-02 -5.36e-03 2.90e-02 -4.96e-03 -1.47e-02  
## 355 -9.92e-04 7.06e-04 -1.56e-02 3.86e-02 -1.42e-02 -1.21e-02 3.92e-02  
## 356 1.69e-02 1.66e-03 -9.09e-03 -5.63e-03 -1.09e-02 -6.99e-03 -2.15e-02  
## 357 2.16e-02 1.95e-02 7.86e-03 -2.52e-02 3.21e-03 6.07e-03 -6.38e-04  
## 358 7.69e-04 -1.89e-04 -2.28e-03 8.77e-03 1.20e-02 -4.43e-03 2.40e-04  
## 359 5.08e-04 -1.99e-03 -2.06e-02 3.99e-02 -1.68e-02 -1.35e-02 -6.87e-03  
## 360 6.72e-03 -2.05e-03 1.29e-02 -1.55e-02 1.62e-02 1.27e-02 -6.45e-03  
## 361 -5.74e-05 -5.49e-03 -1.21e-03 -1.45e-03 -1.73e-03 -1.72e-03 -1.84e-03  
## 362 -1.45e-02 -4.31e-03 -8.52e-03 1.15e-02 1.64e-02 -8.16e-03 -1.96e-03  
## 363 -2.24e-03 4.31e-03 2.18e-03 2.73e-03 -2.70e-03 2.28e-03 1.35e-03  
## 364 -7.81e-04 -7.26e-04 9.75e-06 2.60e-05 2.91e-05 2.37e-04 2.88e-05  
## 365 -1.80e-02 -1.02e-02 1.37e-02 1.16e-02 1.13e-02 -2.97e-02 1.64e-02  
## 366 1.36e-02 8.13e-03 -5.37e-03 -2.95e-03 1.81e-02 -7.92e-03 9.55e-03  
## 367 -6.66e-03 1.19e-02 6.28e-03 -1.71e-02 6.65e-03 8.13e-03 6.72e-03  
## 368 1.47e-04 -6.26e-03 -1.80e-03 -2.08e-03 -2.10e-03 -2.11e-03 -2.74e-03  
## 369 3.45e-04 4.16e-03 1.40e-02 9.22e-03 -4.04e-03 1.05e-02 -9.24e-04  
## 370 -1.97e-04 1.03e-03 1.64e-04 6.58e-04 6.85e-05 4.34e-04 -1.14e-04  
## 371 -5.83e-04 -1.08e-03 -7.69e-05 1.42e-05 -8.32e-05 -1.31e-04 -1.71e-04  
## 372 -1.18e-02 1.37e-03 -4.33e-03 -8.88e-04 -5.41e-03 -2.69e-03 1.46e-02  
## 373 5.95e-04 -5.57e-04 3.96e-03 -2.57e-03 4.34e-03 -2.75e-03 3.43e-03  
## 374 2.59e-03 -4.27e-03 -4.05e-03 9.21e-03 -4.89e-03 -7.95e-03 1.45e-02  
## 375 -2.43e-02 -4.72e-03 -1.84e-02 8.70e-03 1.91e-02 1.18e-02 -1.04e-02  
## 376 6.55e-03 5.16e-03 -6.25e-03 6.09e-03 -4.85e-03 -5.49e-03 -5.24e-03  
## 377 4.45e-03 1.09e-02 1.03e-02 1.21e-02 9.29e-03 1.03e-02 7.56e-03  
## 378 -1.44e-02 1.68e-02 -1.27e-02 -6.91e-03 1.95e-02 3.15e-02 8.98e-03  
## 379 -2.46e-03 -1.67e-03 1.86e-03 1.59e-03 1.26e-03 9.75e-04 1.95e-03  
## 380 1.52e-02 -9.50e-03 1.29e-02 1.49e-02 -1.98e-02 -2.31e-02 2.06e-02  
## 381 -1.27e-02 -7.59e-03 -7.69e-03 1.07e-02 -9.45e-03 -1.14e-02 1.25e-02  
## 382 7.72e-03 -3.80e-02 3.98e-02 -1.94e-02 -8.83e-03 -1.70e-02 -4.29e-03  
## 383 3.66e-04 4.85e-04 4.66e-04 6.23e-04 3.06e-04 4.94e-04 4.10e-04  
## 384 -1.29e-02 6.66e-03 2.07e-02 -9.75e-04 -5.62e-03 -2.79e-03 -1.43e-02  
## 385 3.92e-03 -1.55e-04 -9.74e-03 1.28e-02 -6.04e-03 1.88e-02 -2.64e-04  
## 386 5.60e-03 2.49e-02 8.23e-03 1.32e-02 8.97e-03 1.79e-02 1.35e-02  
## 387 -7.22e-03 1.74e-03 1.88e-02 -1.92e-02 3.20e-02 -1.01e-02 -2.71e-02  
## 388 1.32e-04 -5.35e-03 -5.49e-03 -5.70e-03 -5.20e-03 -5.07e-03 6.39e-03  
## 389 8.72e-03 4.57e-04 1.77e-02 1.03e-02 -1.97e-02 9.93e-03 2.86e-02  
## 390 -3.91e-03 2.31e-02 6.62e-03 1.04e-02 4.62e-03 8.54e-03 2.97e-03  
## 391 1.50e-02 2.23e-04 1.68e-02 6.26e-03 2.13e-02 1.05e-02 -1.57e-02  
## 392 1.91e-02 7.79e-03 -2.21e-02 5.52e-03 -1.92e-02 -2.54e-02 -1.87e-02  
## 393 -7.59e-03 3.29e-02 8.14e-03 8.98e-03 4.28e-03 6.93e-03 2.21e-03  
## 394 -8.88e-04 -4.89e-03 -1.10e-03 -1.57e-03 -1.66e-03 -2.06e-03 -2.12e-03  
## 395 7.90e-03 6.48e-03 2.08e-02 7.32e-03 2.29e-02 6.63e-03 -1.40e-02  
## 396 -2.07e-03 -1.59e-03 1.51e-03 1.65e-03 1.19e-03 9.11e-04 1.71e-03  
## 397 1.19e-02 -2.52e-02 1.52e-02 -3.14e-02 -1.72e-02 -2.99e-02 -1.13e-02  
## 398 3.06e-02 3.42e-03 2.54e-02 -1.67e-02 -1.51e-02 -1.23e-02 -2.09e-02  
## 399 1.69e-05 -4.65e-03 1.04e-02 6.54e-03 -1.73e-02 -2.59e-02 -1.46e-02  
## 400 -7.43e-04 -1.80e-03 -1.93e-04 7.41e-05 -1.85e-04 -1.06e-04 -3.10e-04  
## 401 -5.82e-04 -1.23e-03 -1.69e-04 -1.17e-04 -1.33e-04 -9.83e-05 -4.26e-04  
## 402 -6.42e-04 -2.96e-03 -5.94e-04 -2.55e-04 -2.61e-04 1.50e-04 -8.61e-04  
## 403 -2.64e-03 -7.30e-03 -4.47e-02 -2.58e-02 1.82e-02 -2.50e-02 5.86e-03  
## 404 4.89e-03 -4.78e-03 -5.81e-03 2.54e-03 -4.72e-03 4.39e-03 -2.24e-03  
## 405 -9.76e-04 -1.97e-03 -3.70e-04 -1.05e-04 1.26e-04 1.01e-03 8.35e-05  
## 406 1.61e-03 1.19e-03 -7.70e-05 5.28e-05 -2.49e-05 -9.18e-05 1.35e-04  
## 407 1.83e-03 -2.04e-03 1.07e-02 -7.42e-03 -5.17e-03 8.60e-03 -5.07e-03  
## 408 -2.73e-02 -4.29e-03 -2.46e-02 6.74e-03 1.92e-02 7.44e-03 -1.40e-02  
## 409 1.81e-04 2.68e-02 7.55e-03 1.27e-02 1.09e-02 1.03e-02 9.84e-03  
## 410 -3.26e-04 2.77e-02 8.49e-03 1.39e-02 1.10e-02 1.09e-02 1.03e-02  
## 411 -1.22e-02 4.11e-03 1.95e-02 -1.71e-03 -3.53e-03 -4.13e-04 -8.13e-03  
## 412 5.93e-03 -2.96e-03 -5.93e-04 -1.29e-03 -8.86e-04 -1.42e-03 -1.16e-03  
## 413 1.28e-02 4.79e-03 1.68e-02 1.11e-02 1.16e-02 6.03e-03 1.80e-02  
## 414 5.88e-03 -7.83e-03 -7.89e-03 8.59e-03 -1.20e-02 -1.55e-02 1.06e-02  
## 415 -2.46e-02 5.56e-03 1.75e-02 1.09e-02 1.19e-02 4.98e-03 1.41e-02  
## 416 -1.63e-02 -3.67e-03 -1.92e-02 1.18e-02 9.36e-03 7.67e-03 1.26e-02  
## 417 2.92e-04 -6.46e-04 -8.03e-04 3.53e-03 -7.50e-04 -1.64e-03 4.99e-03  
## 418 4.49e-03 -1.24e-03 -1.58e-05 3.18e-05 -2.20e-05 2.28e-04 1.45e-04  
## 419 2.52e-02 5.14e-03 2.78e-02 -1.56e-02 -1.85e-02 -1.23e-02 -3.08e-02  
## 420 1.36e-02 4.54e-03 -6.90e-03 -3.53e-03 2.46e-02 -3.28e-03 -1.21e-02  
## 421 1.96e-02 -8.88e-03 -2.87e-03 -4.83e-03 -4.47e-03 -5.25e-03 -3.42e-03  
## 422 -2.14e-02 -3.35e-04 1.36e-02 9.94e-03 1.02e-02 8.57e-03 1.77e-02  
## 423 1.03e-02 -1.16e-02 -1.38e-02 1.27e-02 -1.19e-02 -1.57e-02 2.27e-02  
## 424 3.61e-03 -1.48e-03 -1.44e-04 -1.97e-04 -2.65e-04 -5.72e-04 -3.71e-04  
## 425 3.42e-03 -7.19e-03 -1.39e-02 -1.41e-02 -1.57e-02 9.08e-03 3.84e-03  
## 426 7.29e-03 1.90e-02 8.05e-03 7.64e-03 4.93e-03 3.06e-03 1.72e-03  
## 427 3.57e-03 -1.19e-03 -1.23e-02 9.94e-03 -1.02e-02 1.27e-02 -5.00e-03  
## 428 2.07e-02 6.09e-04 1.33e-02 1.12e-02 1.66e-02 8.30e-03 3.24e-02  
## 429 1.72e-02 1.35e-03 1.49e-02 9.00e-03 1.07e-02 6.55e-03 1.77e-02  
## 430 -2.90e-03 -3.61e-03 -3.85e-03 2.20e-03 -3.05e-03 3.55e-03 -1.24e-03  
## 431 2.08e-02 3.25e-02 2.50e-03 1.27e-02 1.46e-02 2.28e-02 1.22e-02  
## 432 9.94e-04 1.49e-03 1.27e-03 1.50e-03 8.36e-04 1.01e-03 9.80e-04  
## 433 -2.05e-03 9.26e-03 4.60e-03 -1.53e-02 -1.86e-02 8.85e-03 1.53e-03  
## 434 1.30e-02 -4.54e-02 -1.41e-02 -1.67e-02 -8.81e-03 -1.52e-02 -5.39e-03  
## 435 -6.75e-04 -6.88e-04 -4.85e-05 -7.07e-06 8.65e-05 1.88e-04 7.08e-06  
## 436 1.89e-03 -3.92e-03 9.34e-03 8.42e-03 -1.65e-02 -1.91e-02 -1.77e-02  
## 437 -6.34e-04 -1.10e-03 -1.55e-04 -1.20e-04 -4.96e-05 -1.80e-04 -3.21e-04  
## 438 -1.66e-04 1.21e-03 7.21e-05 7.02e-04 -2.11e-05 4.38e-04 -2.38e-04  
## 439 1.02e-02 -7.79e-03 1.53e-02 1.07e-02 1.62e-02 -2.96e-02 2.50e-02  
## 440 -2.23e-03 1.07e-02 5.46e-03 1.01e-02 -1.90e-02 -1.73e-02 4.74e-03  
## 441 2.05e-02 -3.51e-02 1.39e-02 -3.73e-02 -2.41e-02 -3.36e-02 -1.07e-02  
## 442 4.93e-03 -3.95e-03 1.83e-02 -2.26e-02 1.92e-02 1.02e-02 -1.08e-02  
## 443 3.64e-03 -1.03e-02 -4.98e-03 -8.77e-03 -4.14e-03 -7.50e-03 -1.75e-03  
## 444 1.77e-02 1.43e-02 6.62e-03 -1.71e-02 6.50e-03 8.93e-03 7.22e-03  
## 445 -2.24e-02 3.74e-03 1.55e-02 1.26e-02 1.62e-02 9.32e-03 2.37e-02  
## 446 -6.54e-03 4.49e-03 1.63e-02 -1.99e-02 1.96e-02 -2.25e-02 8.38e-03  
## 447 1.52e-02 -1.16e-03 -9.96e-03 -9.92e-03 -8.73e-03 -7.43e-03 -1.44e-02  
## 448 1.24e-03 -4.54e-04 2.17e-05 4.43e-06 5.98e-06 3.44e-05 -1.01e-05  
## 449 -2.36e-02 -1.18e-02 1.07e-02 4.05e-03 -3.23e-02 1.17e-02 -1.34e-02  
## 450 6.98e-03 2.45e-03 2.21e-04 1.12e-03 -8.17e-03 1.00e-03 -6.60e-05  
## 451 1.03e-03 -4.42e-04 -1.44e-05 -9.09e-05 -1.11e-04 -2.24e-04 -1.98e-04  
## 452 -5.27e-03 3.54e-03 6.67e-03 -1.73e-02 -1.69e-02 -1.75e-02 8.73e-03  
## 453 -1.99e-03 -4.24e-03 -7.12e-03 5.28e-03 -6.26e-03 -9.93e-03 -5.89e-03  
## 454 2.63e-02 -2.15e-03 -1.78e-02 -1.26e-02 -1.71e-02 -1.03e-02 -3.11e-02  
## 455 -3.36e-04 9.46e-05 -9.03e-08 -2.14e-05 -1.71e-05 -1.51e-06 1.77e-05  
## 456 1.90e-02 -1.39e-02 -3.18e-02 4.65e-03 -2.84e-02 1.14e-02 -1.44e-02  
## 457 -1.06e-02 -8.61e-03 -9.56e-03 1.01e-02 -8.46e-03 -1.09e-02 -7.56e-03  
## 458 -2.80e-03 3.88e-03 -4.72e-03 5.51e-03 -2.83e-03 -2.43e-03 -2.86e-03  
## 459 -2.56e-04 -6.50e-03 -1.96e-03 -2.23e-03 -1.81e-03 -2.54e-03 -2.55e-03  
## 460 2.70e-02 -5.19e-04 1.15e-02 6.55e-03 8.73e-03 5.49e-03 1.99e-02  
## 461 -4.59e-05 -5.22e-03 -1.18e-03 -1.42e-03 -1.70e-03 -1.69e-03 -1.85e-03  
## 462 -9.21e-03 1.91e-02 -2.14e-02 6.58e-03 1.01e-02 9.41e-03 -1.98e-02  
## 463 -1.30e-02 5.86e-03 -3.90e-03 -1.90e-03 1.64e-02 -4.68e-03 7.61e-03  
## 464 -1.17e-02 6.28e-03 1.95e-02 4.69e-04 -7.20e-03 -3.17e-03 9.79e-03  
## 465 -2.39e-05 -1.51e-03 -2.26e-04 -1.25e-03 -6.07e-06 -9.72e-04 7.13e-05  
## 466 -1.74e-03 2.15e-03 4.53e-03 5.11e-03 5.29e-03 -3.86e-03 6.00e-03  
## 467 9.90e-04 9.36e-04 9.88e-03 8.58e-03 -1.09e-03 -5.55e-03 9.04e-05  
## 468 3.76e-04 3.15e-03 -2.26e-03 8.11e-03 9.29e-03 7.12e-03 -4.69e-03  
## 469 5.56e-04 5.23e-04 -7.92e-05 -2.94e-04 -1.23e-04 -3.28e-04 -5.56e-05  
## 470 1.41e-02 -4.68e-02 -1.46e-02 -2.10e-02 -1.65e-02 -1.79e-02 -2.11e-02  
## 471 -1.68e-03 -3.81e-03 -9.33e-04 -1.17e-03 -7.38e-04 -1.29e-03 -1.59e-03  
## 472 7.69e-03 -3.54e-02 -7.12e-03 -9.57e-03 -9.56e-03 -1.26e-02 -1.50e-02  
## 473 -7.92e-03 2.53e-02 5.30e-03 5.50e-03 -2.74e-02 1.19e-02 -2.26e-02  
## 474 -2.33e-03 3.62e-03 3.80e-03 -5.86e-03 3.00e-03 -7.57e-03 9.71e-04  
## 475 1.52e-02 6.38e-03 2.51e-02 -8.41e-03 -6.89e-03 -6.34e-03 -1.45e-02  
## 476 -1.54e-02 3.98e-03 2.43e-02 -8.99e-03 -9.44e-03 -6.33e-03 -1.57e-02  
## 477 -8.50e-03 1.00e-02 -1.36e-02 7.53e-03 9.86e-03 -1.77e-02 -1.32e-02  
## 478 -2.14e-03 -2.54e-03 -1.64e-02 -1.58e-02 -1.70e-02 -1.47e-02 -1.90e-02  
## 479 1.23e-02 1.24e-02 -5.88e-03 -3.06e-03 -1.18e-02 2.53e-02 9.22e-03  
## 480 2.34e-02 -2.08e-03 -1.75e-02 -1.65e-02 -1.34e-02 -1.14e-02 -1.93e-02  
## 481 -3.72e-04 -9.08e-04 -1.01e-04 4.38e-04 3.20e-04 7.33e-04 1.72e-04  
## 482 5.24e-03 9.76e-03 -2.48e-02 4.42e-02 3.74e-02 -2.24e-02 -2.98e-02  
## 483 -2.97e-02 2.09e-03 1.68e-02 8.13e-03 1.73e-02 6.81e-03 3.23e-02  
## 484 3.02e-04 -1.59e-03 -9.70e-04 5.16e-03 -9.48e-04 -3.35e-03 -6.75e-05  
## 485 1.60e-02 6.71e-03 2.46e-02 -6.15e-03 -9.75e-03 -7.07e-03 2.12e-02  
## 486 -1.57e-04 6.05e-03 1.03e-02 8.87e-03 1.02e-02 8.46e-03 1.30e-02  
## 487 2.35e-02 -1.16e-02 -4.01e-02 2.52e-03 1.88e-02 9.19e-03 -2.08e-02  
## 488 -3.77e-04 -7.40e-04 3.33e-04 -8.56e-04 2.40e-04 2.91e-04 2.93e-04  
## 489 -1.58e-02 8.19e-05 -7.24e-03 -4.77e-03 -4.80e-03 -3.61e-03 -1.20e-02  
## 490 8.12e-04 1.60e-03 -3.13e-03 8.92e-03 -2.08e-03 1.10e-02 5.71e-04  
## 491 -5.08e-03 2.28e-02 -2.76e-02 7.30e-03 6.02e-03 1.04e-02 -3.27e-02  
## 492 1.56e-02 1.22e-02 -9.99e-03 3.12e-02 -7.77e-03 -8.14e-03 -1.27e-02  
## 493 4.06e-03 1.06e-02 -5.57e-03 5.32e-03 5.23e-03 4.20e-03 4.32e-03  
## 494 5.81e-05 -6.76e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.22e-03 -2.63e-03  
## 495 -3.06e-03 -1.86e-03 3.71e-02 -1.82e-02 3.23e-02 -2.64e-02 -3.09e-02  
## 496 -2.01e-03 1.35e-03 -4.86e-03 -4.19e-03 2.44e-03 -5.51e-03 8.20e-04  
## 497 3.05e-03 1.95e-03 -2.48e-04 -6.63e-04 -5.27e-04 -3.52e-04 3.18e-04  
## 498 -5.80e-03 -9.85e-03 3.29e-02 -1.55e-02 -1.17e-02 -1.09e-02 -6.52e-03  
## 499 -1.88e-02 2.51e-02 2.76e-02 3.45e-02 2.72e-02 -9.26e-03 -2.15e-02  
## 500 8.78e-03 -1.82e-02 -1.16e-02 -1.45e-02 -7.74e-03 -1.15e-02 -4.61e-03  
## 501 -9.60e-05 2.50e-03 1.03e-02 -5.21e-03 8.50e-03 7.43e-03 8.08e-03  
## 502 -2.86e-04 -6.63e-04 -4.80e-04 3.13e-04 -4.39e-04 -4.70e-04 -3.72e-04  
## 503 -7.33e-03 -6.32e-03 7.20e-03 -5.35e-03 -5.87e-03 -7.16e-03 6.11e-03  
## 504 -4.75e-03 -3.64e-03 2.98e-03 3.02e-03 3.89e-03 2.40e-03 6.30e-03  
## 505 -1.25e-02 8.01e-03 2.20e-02 -2.44e-03 2.25e-02 -3.10e-03 -1.96e-02  
## 506 2.30e-02 -4.12e-03 1.27e-02 8.37e-03 -3.76e-02 7.37e-03 2.13e-02  
## 507 1.15e-02 1.21e-02 -4.64e-03 -2.42e-03 -1.12e-02 2.59e-02 9.72e-03  
## 508 -1.80e-02 9.91e-03 -1.11e-02 -1.00e-02 -8.70e-03 3.37e-02 -1.68e-02  
## 509 5.05e-05 -6.50e-03 -1.79e-03 -2.09e-03 -2.10e-03 -2.14e-03 -2.69e-03  
## 510 -1.40e-02 -1.70e-02 1.07e-02 -1.71e-02 -1.30e-02 -1.75e-02 2.13e-02  
## 511 3.35e-03 -6.27e-03 1.62e-02 -1.68e-02 -8.64e-03 1.11e-02 -4.70e-03  
## 512 -1.11e-02 -1.44e-03 -5.92e-03 -2.44e-03 -4.22e-03 9.25e-05 -8.68e-03  
## 513 3.88e-03 -6.97e-03 -7.46e-03 9.85e-03 1.58e-02 -1.64e-02 -5.14e-03  
## 514 1.15e-02 -2.20e-02 -1.39e-02 -1.83e-02 -1.78e-02 -1.98e-02 1.15e-02  
## 515 -1.55e-02 1.78e-02 -2.45e-02 -1.73e-02 2.01e-02 3.68e-02 1.06e-02  
## 516 -1.63e-03 2.93e-03 2.75e-03 -2.65e-03 2.44e-03 -3.22e-03 1.24e-03  
## 517 -2.39e-02 2.99e-03 1.33e-02 1.09e-02 1.19e-02 4.48e-03 1.72e-02  
## 518 2.79e-02 1.06e-02 -1.88e-02 3.56e-02 -1.30e-02 -7.77e-03 -1.52e-02  
## 519 -6.06e-04 -5.28e-03 -1.30e-03 -1.76e-03 -1.49e-03 -1.87e-03 -2.25e-03  
## 520 9.13e-04 8.83e-04 -3.61e-03 9.39e-03 -3.88e-03 1.04e-02 -2.96e-04  
## 521 1.80e-02 3.14e-02 9.75e-03 8.32e-03 5.25e-03 3.63e-03 2.91e-03  
## 522 3.17e-03 4.46e-03 1.47e-02 1.10e-02 1.35e-02 7.22e-03 1.84e-02  
## 523 -1.52e-02 -3.60e-03 -1.67e-02 -1.35e-02 -1.30e-02 -8.38e-03 -1.72e-02  
## 524 -1.07e-02 2.64e-03 -1.48e-02 -6.14e-03 1.89e-02 -9.58e-03 8.46e-03  
## 525 -1.08e-02 -2.65e-03 9.82e-03 -7.20e-03 -5.19e-03 9.44e-03 -5.61e-03  
## 526 1.97e-05 -8.90e-04 -7.83e-05 -6.82e-04 -1.90e-05 -5.63e-04 1.24e-04  
## 527 2.43e-03 -2.38e-03 -3.96e-03 8.93e-03 1.01e-02 -8.92e-03 -5.38e-03  
## 528 1.77e-04 1.96e-04 -3.10e-06 -9.47e-05 -6.04e-05 -1.11e-04 -2.54e-05  
## 529 2.13e-03 -2.60e-03 -3.98e-03 9.88e-03 -4.35e-03 -7.26e-03 -4.36e-03  
## 530 -9.65e-04 -1.38e-03 1.03e-05 2.65e-04 2.11e-04 6.92e-04 2.53e-04  
## 531 3.38e-03 2.27e-03 -4.14e-04 -9.53e-04 -5.68e-04 -4.74e-04 2.35e-05  
## 532 -2.25e-02 -3.32e-03 1.15e-02 4.97e-03 1.39e-02 9.37e-03 -3.15e-02  
## 533 1.99e-05 -7.27e-04 1.44e-02 1.01e-02 -2.39e-03 -9.20e-03 6.43e-04  
## 534 -1.15e-02 1.25e-03 -3.77e-03 -1.44e-03 -5.46e-03 -2.58e-03 -1.40e-02  
## 535 2.45e-02 -8.04e-03 1.19e-02 3.52e-03 -3.83e-02 8.49e-03 -2.86e-02  
## 536 1.99e-03 1.21e-03 -6.94e-03 1.01e-02 9.73e-03 5.72e-03 1.11e-02  
## 537 -2.43e-03 3.73e-03 -4.78e-03 -4.31e-03 -6.12e-03 4.86e-03 1.95e-03  
## 538 -1.46e-02 2.61e-03 -2.84e-03 8.90e-03 1.27e-02 9.41e-03 -1.43e-03  
## 539 1.31e-03 -1.41e-03 8.16e-04 -1.81e-03 5.86e-04 5.66e-04 6.18e-04  
## 540 -1.81e-04 1.22e-03 1.18e-04 7.13e-04 4.10e-05 4.65e-04 -1.54e-04  
## 541 2.78e-02 3.37e-02 6.82e-03 7.76e-03 7.36e-03 8.80e-03 1.25e-02  
## 542 9.23e-05 -6.40e-03 -1.79e-03 -2.09e-03 -2.10e-03 -2.13e-03 -2.71e-03  
## 543 -1.24e-02 1.46e-03 -6.91e-03 -2.18e-03 -7.74e-03 -3.98e-03 1.75e-02  
## 544 -8.07e-03 2.05e-02 -1.77e-02 4.03e-02 -1.96e-02 3.79e-02 4.35e-02  
## 545 -2.06e-02 4.56e-03 1.44e-02 1.23e-02 1.60e-02 1.27e-02 2.46e-02  
## 546 3.25e-02 3.26e-03 2.21e-02 -1.61e-02 -2.08e-02 -1.38e-02 2.35e-02  
## 547 1.31e-03 -2.19e-03 -3.18e-03 8.80e-03 1.24e-02 -7.55e-03 -1.58e-03  
## 548 3.59e-03 -7.77e-03 -7.92e-03 -1.51e-02 -9.68e-03 1.12e-02 -1.05e-02  
## 549 -6.30e-04 -5.18e-03 -1.33e-03 -1.82e-03 -1.66e-03 -2.09e-03 -2.21e-03  
## 550 4.14e-05 -5.27e-04 -2.98e-04 -1.22e-03 -2.21e-04 3.22e-03 9.72e-05  
## 551 -5.28e-05 5.84e-04 3.91e-05 3.16e-04 1.83e-06 2.06e-04 -1.09e-04  
## 552 2.24e-03 1.85e-03 -2.30e-04 -7.85e-04 -5.40e-04 -6.72e-04 5.78e-05  
## 553 7.72e-03 -2.39e-03 -3.75e-04 -1.01e-04 -5.03e-06 6.44e-04 1.53e-04  
## 554 -1.45e-02 3.88e-03 2.46e-02 -1.22e-02 -1.29e-02 -8.59e-03 -1.81e-02  
## 555 3.27e-03 4.39e-03 3.44e-03 -3.68e-03 -3.86e-03 3.97e-03 3.48e-03  
## 556 -1.68e-04 -6.27e-03 -1.61e-03 -1.91e-03 -1.73e-03 -1.80e-03 -2.71e-03  
## 557 -1.19e-03 1.03e-03 -2.01e-03 -1.74e-03 1.91e-03 -1.72e-03 -3.15e-03  
## 558 -1.95e-02 1.48e-03 1.31e-02 1.19e-02 1.13e-02 8.75e-03 1.64e-02  
## 559 -3.39e-03 1.54e-02 6.48e-03 9.83e-03 4.88e-03 -2.12e-02 3.67e-03  
## 560 2.60e-03 -3.82e-03 -5.98e-03 1.16e-02 1.74e-02 -1.18e-02 -1.67e-03  
## 561 2.14e-02 -9.84e-03 -4.17e-03 -6.53e-03 -4.83e-03 -6.20e-03 -4.60e-03  
## 562 -4.90e-03 1.30e-02 5.28e-03 -2.17e-02 9.70e-03 1.11e-02 -1.98e-02  
## 563 1.60e-03 5.27e-03 1.43e-02 1.14e-02 -3.50e-03 1.42e-02 9.80e-04  
## 564 -3.10e-03 9.04e-03 5.01e-03 8.11e-03 -1.70e-02 -1.68e-02 -2.00e-02  
## 565 6.17e-03 -5.13e-03 -7.60e-03 2.55e-03 3.35e-03 2.48e-03 -7.95e-03  
## 566 -1.57e-02 -1.78e-02 1.23e-02 -2.01e-02 2.01e-02 -1.75e-02 -6.81e-03  
## 567 -5.04e-03 -6.40e-03 3.71e-03 3.01e-03 -8.78e-03 3.48e-03 8.77e-03  
## 568 -1.10e-02 2.35e-03 -1.56e-02 -6.70e-03 1.94e-02 -1.06e-02 8.53e-03  
## 569 3.18e-03 -4.86e-03 -1.37e-02 1.07e-02 -1.42e-02 -1.27e-02 8.65e-03  
## 570 9.91e-04 7.83e-04 -7.69e-05 -1.11e-04 -2.59e-05 -1.24e-04 -1.04e-05  
## 571 2.60e-03 3.88e-03 -2.57e-03 3.42e-03 2.43e-03 -2.73e-03 1.31e-03  
## 572 -3.79e-03 1.03e-02 5.30e-03 1.01e-02 -1.18e-02 -1.06e-02 1.06e-02  
## 573 -6.26e-03 -7.38e-03 1.93e-02 -2.88e-02 -4.43e-02 -3.04e-02 9.99e-03  
## 574 1.51e-02 -2.37e-02 -2.66e-02 7.32e-03 -2.28e-02 -3.94e-02 -1.14e-02  
## 575 9.99e-04 -7.82e-04 7.20e-04 6.91e-04 -1.47e-03 4.81e-04 7.67e-04  
## 576 8.45e-03 -7.82e-03 1.39e-02 -1.66e-02 -1.23e-02 1.45e-02 -1.14e-02  
## 577 -2.18e-02 2.02e-04 1.37e-02 9.74e-03 1.05e-02 8.26e-03 1.90e-02  
## 578 1.08e-02 -1.36e-02 -2.07e-02 -3.18e-02 1.45e-02 6.59e-03 2.14e-02  
## 579 9.49e-06 -8.57e-03 -2.60e-03 -4.31e-03 -3.41e-03 -3.40e-03 -3.19e-03  
## 580 3.48e-03 2.81e-02 5.69e-03 6.58e-03 9.10e-03 1.15e-02 1.05e-02  
## 581 1.56e-02 1.22e-02 -1.12e-02 3.06e-02 -9.50e-03 -1.08e-02 -1.35e-02  
## 582 -1.05e-02 3.14e-03 -3.56e-03 4.49e-04 1.71e-02 -1.08e-03 1.32e-02  
## 583 -1.33e-04 -7.39e-03 -1.81e-03 -2.94e-03 -2.98e-03 -3.01e-03 -2.34e-03  
## 584 -2.45e-04 -8.49e-03 -2.33e-03 -4.01e-03 -3.45e-03 -3.33e-03 -3.11e-03  
## 585 -8.76e-03 3.86e-04 -3.27e-03 2.51e-04 -3.79e-03 -3.87e-04 1.23e-02  
## 586 -7.68e-04 1.17e-03 -8.20e-04 -8.12e-04 9.14e-04 1.34e-03 -1.36e-03  
## 587 -4.11e-04 -3.00e-03 -6.01e-04 -2.99e-05 -2.05e-04 1.37e-04 -4.23e-04  
## 588 1.41e-04 -3.84e-04 -4.70e-04 -1.22e-03 -6.44e-04 3.08e-03 3.74e-03  
## 589 -5.21e-03 -5.46e-03 2.96e-03 2.52e-03 1.93e-03 1.76e-03 3.94e-03  
## 590 4.21e-05 -9.84e-04 3.44e-03 -1.06e-03 6.30e-05 -6.98e-04 3.61e-04  
## 591 2.40e-03 -1.02e-03 -9.85e-05 -1.41e-04 -1.80e-04 -3.93e-04 -3.08e-04  
## 592 -2.07e-03 -3.11e-03 1.77e-03 1.71e-03 1.32e-03 -4.31e-03 1.96e-03  
## 593 -1.42e-02 -1.53e-02 -1.49e-02 -2.00e-02 -1.94e-02 9.00e-03 1.10e-02  
## 594 -4.93e-03 2.62e-02 7.02e-03 1.09e-02 5.49e-03 9.27e-03 3.30e-03  
## 595 -4.94e-02 -9.45e-03 -1.33e-02 4.18e-02 5.10e-02 4.37e-02 -5.20e-03  
## 596 2.07e-03 -5.62e-03 -7.59e-03 -6.00e-03 -5.49e-03 -3.82e-03 -7.59e-03  
## 597 2.65e-02 1.82e-02 5.49e-03 1.03e-02 8.98e-03 -2.67e-02 1.18e-02  
## 598 3.92e-03 2.45e-03 -1.04e-02 1.17e-02 1.57e-02 1.13e-02 2.16e-02  
## 599 1.00e-03 7.23e-04 -5.09e-05 -7.72e-06 -9.05e-05 -6.57e-05 2.36e-05  
## 600 -1.74e-02 -1.01e-02 1.32e-02 1.13e-02 1.08e-02 -3.10e-02 1.63e-02  
## 601 -2.00e-04 -3.80e-03 -1.06e-03 -5.24e-04 -3.81e-04 2.78e-04 -9.48e-04  
## 602 1.17e-03 5.94e-03 1.24e-02 9.99e-03 9.10e-03 7.15e-03 1.07e-02  
## 603 4.63e-03 -4.43e-03 -6.73e-03 1.06e-02 -3.23e-03 -6.29e-03 -4.43e-04  
## 604 1.07e-02 -1.81e-02 1.37e-02 -2.03e-02 -1.11e-02 -1.56e-02 -5.51e-03  
## 605 -2.78e-03 -4.15e-03 -5.65e-03 2.07e-03 1.22e-03 1.52e-03 2.45e-03  
## 606 -6.94e-04 6.67e-04 9.40e-04 -6.82e-04 -5.46e-04 -4.09e-04 -6.64e-04  
## 607 1.67e-06 -3.37e-06 -2.12e-06 -2.93e-06 -1.72e-06 2.43e-06 -1.11e-06  
## 608 -3.80e-04 2.72e-03 1.93e-04 1.15e-03 -3.05e-04 8.19e-04 -3.91e-04  
## 609 -3.35e-03 1.08e-02 -4.32e-02 3.83e-02 1.76e-02 -2.45e-02 1.51e-02  
## 610 -5.41e-03 -7.09e-03 3.27e-02 -1.74e-02 -1.22e-02 -1.43e-02 -1.21e-02  
## 611 6.56e-03 1.25e-03 4.57e-02 3.62e-02 5.28e-02 4.30e-02 -1.03e-02  
## 612 2.38e-03 1.64e-03 -4.03e-04 -7.97e-04 -3.75e-04 -6.15e-04 -1.38e-04  
## 613 6.84e-03 -1.14e-02 -1.31e-02 -2.24e-02 -1.17e-02 1.48e-02 -7.39e-03  
## 614 1.88e-03 2.74e-03 1.80e-03 2.55e-03 -1.44e-03 -1.36e-03 2.40e-03  
## 615 2.07e-02 2.76e-02 7.27e-03 1.01e-02 4.49e-03 7.13e-03 2.16e-03  
## 616 3.08e-03 9.78e-03 1.06e-02 1.00e-02 8.28e-03 9.32e-03 7.47e-03  
## 617 1.29e-03 -7.08e-04 1.42e-02 9.56e-03 -3.83e-03 -1.05e-02 -1.17e-03  
## 618 3.20e-03 -7.15e-03 -4.07e-03 -6.90e-03 5.32e-03 -9.07e-03 5.10e-03  
## 619 2.33e-02 -8.13e-03 -3.43e-02 7.06e-03 7.57e-03 5.83e-03 1.51e-02  
## 620 1.31e-03 1.05e-02 1.06e-02 8.05e-03 1.25e-02 7.24e-03 1.69e-02  
## 621 1.79e-03 -3.30e-03 -2.82e-03 -5.71e-03 -5.77e-03 7.49e-03 7.99e-03  
## 622 -1.93e-02 1.93e-03 1.53e-02 1.20e-02 -1.30e-02 1.34e-02 -9.10e-03  
## 623 -5.30e-04 -9.22e-04 -1.09e-04 3.45e-04 2.58e-04 7.19e-04 1.04e-05  
## 624 2.68e-03 3.11e-02 7.46e-03 9.43e-03 8.66e-03 9.78e-03 1.36e-02  
## 625 -2.34e-02 -1.17e-02 1.56e-02 1.02e-02 2.12e-02 -3.26e-02 -1.03e-02  
## 626 1.47e-02 -7.39e-03 -2.23e-02 1.05e-02 -2.56e-02 7.34e-03 1.59e-02  
## 627 4.76e-04 1.84e-03 -4.78e-03 9.95e-03 -4.07e-03 9.92e-03 -2.33e-03  
## 628 -5.14e-05 -3.58e-04 -5.85e-04 6.00e-03 -2.38e-06 -2.31e-03 5.91e-04  
## 629 -7.68e-03 -2.07e-03 2.19e-02 -1.73e-02 -2.58e-02 -9.61e-03 -3.34e-02  
## 630 -1.15e-02 2.36e-02 2.18e-02 -1.35e-02 2.05e-02 3.95e-02 9.80e-03  
## 631 6.19e-03 7.77e-03 4.79e-03 -6.82e-03 3.01e-03 3.78e-03 4.99e-04  
## 632 -5.45e-03 -5.46e-03 3.32e-03 2.84e-03 2.17e-03 2.01e-03 4.43e-03  
## 633 -5.62e-04 -3.39e-03 -8.46e-04 -4.67e-04 -3.64e-04 6.21e-05 -8.43e-04  
## 634 -4.87e-04 -4.13e-03 7.33e-03 -1.01e-02 1.00e-02 -8.17e-03 -7.54e-03  
## 635 -4.35e-03 2.24e-03 1.33e-02 -2.66e-02 1.88e-02 -2.60e-02 6.08e-03  
## 636 -1.42e-02 -4.88e-03 1.14e-02 1.25e-02 -5.06e-03 -8.44e-03 -7.79e-04  
## 637 -5.69e-03 -5.16e-03 3.94e-03 2.26e-03 5.34e-03 3.59e-03 -5.25e-03  
## 638 -6.60e-03 9.18e-03 -3.75e-02 3.73e-02 1.71e-02 -2.90e-02 9.24e-03  
## 639 -1.17e-02 5.88e-04 -6.05e-03 -2.76e-03 -8.15e-03 -3.08e-03 -1.75e-02  
## 640 -3.39e-03 1.32e-03 -1.91e-04 -3.76e-04 -2.83e-04 -7.37e-05 1.19e-04  
## 641 2.78e-02 -6.27e-02 -2.90e-02 -3.08e-02 -2.41e-02 -2.38e-02 5.21e-02  
## 642 1.00e-02 2.96e-03 -3.44e-03 -2.33e-04 -7.92e-03 -4.20e-03 8.95e-03  
## 643 -2.03e-02 -1.58e-03 -1.08e-02 1.07e-02 -1.17e-02 1.13e-02 2.17e-02  
## 644 1.62e-02 -8.09e-03 -2.10e-03 -4.11e-03 -3.75e-03 -4.85e-03 -3.01e-03  
## 645 -8.34e-03 -5.16e-04 -6.38e-03 -2.55e-04 -9.72e-03 -1.53e-03 9.50e-03  
## 646 8.33e-03 -4.15e-02 -1.10e-02 -1.43e-02 -6.81e-03 -1.36e-02 -5.89e-03  
## 647 5.53e-03 6.93e-03 5.20e-03 5.69e-03 -5.72e-03 -5.98e-03 -6.65e-03  
## 648 -1.26e-02 4.49e-03 2.07e-02 -1.73e-03 -6.11e-03 -1.24e-03 -1.32e-02  
## 649 -2.26e-02 3.96e-03 1.50e-02 1.10e-02 1.18e-02 5.62e-03 1.45e-02  
## 650 1.59e-02 7.26e-04 -9.66e-03 -7.14e-03 -7.45e-03 -6.42e-03 -1.35e-02  
## 651 1.30e-02 4.52e-03 -7.85e-03 -5.93e-03 2.64e-02 -6.47e-03 -1.51e-02  
## 652 9.58e-05 1.07e-04 -1.44e-06 -5.01e-05 -3.23e-05 -5.86e-05 -1.56e-05  
## 653 1.43e-02 -6.48e-03 -1.99e-03 -2.99e-03 -2.78e-03 -3.72e-03 -3.31e-03  
## 654 4.03e-03 2.52e-02 7.60e-03 1.26e-02 9.77e-03 1.57e-02 1.44e-02  
## 655 -2.15e-02 -1.95e-02 1.11e-02 5.99e-03 2.02e-02 -4.08e-02 -1.55e-02  
## 656 -3.57e-03 -2.92e-03 2.48e-03 2.65e-03 1.97e-03 1.67e-03 2.80e-03  
## 657 -2.07e-03 2.05e-03 -2.87e-03 -2.88e-03 -2.23e-03 3.53e-03 -2.90e-03  
## 658 2.04e-03 2.25e-02 4.81e-03 2.45e-04 1.52e-03 -1.48e-03 3.26e-03  
## 659 -1.15e-03 -2.87e-03 -5.56e-04 -9.23e-04 -7.53e-04 -1.45e-03 -1.27e-03  
## 660 -5.71e-03 -1.56e-02 -1.48e-02 -1.46e-02 -1.09e-02 -1.33e-02 -1.08e-02  
## 661 -5.76e-03 2.46e-02 7.48e-03 1.08e-02 5.22e-03 8.49e-03 3.09e-03  
## 662 1.07e-04 -6.64e-03 -1.94e-03 -2.32e-03 -2.03e-03 -2.21e-03 -2.66e-03  
## 663 2.15e-04 4.02e-04 -2.07e-04 -2.03e-04 3.05e-04 3.85e-04 2.94e-04  
## 664 2.32e-03 1.76e-03 -3.28e-04 -8.97e-04 -5.12e-04 -6.77e-04 3.95e-05  
## 665 -1.98e-02 -6.27e-03 1.23e-02 9.22e-03 -3.84e-02 9.78e-03 2.24e-02  
## 666 1.61e-02 -8.41e-04 -1.05e-02 -1.03e-02 -9.25e-03 -7.80e-03 -1.46e-02  
## 667 -1.66e-03 3.54e-03 8.23e-03 6.83e-03 -1.57e-02 5.46e-03 5.82e-03  
## 668 9.97e-03 -4.79e-02 -1.39e-02 -2.08e-02 -1.01e-02 -1.70e-02 -6.20e-03  
## 669 2.18e-04 2.20e-05 3.98e-04 -7.11e-04 1.99e-04 3.37e-04 2.64e-04  
## 670 -3.48e-04 -4.57e-04 -9.38e-06 -7.98e-05 -9.64e-05 -1.32e-04 -1.05e-04  
## 671 -1.25e-03 4.10e-04 -3.41e-05 -1.29e-04 -1.01e-04 -8.39e-05 4.21e-06  
## 672 -1.37e-02 -4.40e-04 -6.18e-03 -3.83e-03 -4.31e-03 -2.92e-03 -1.04e-02  
## 673 1.53e-02 -8.40e-03 -2.68e-03 -5.15e-03 -3.90e-03 -5.06e-03 -3.94e-03  
## 674 7.16e-03 -8.16e-03 3.09e-02 -9.32e-03 -2.23e-02 -1.08e-02 3.01e-02  
## 675 8.39e-04 -3.10e-03 9.66e-03 -4.83e-03 -9.31e-04 -3.62e-03 1.11e-04  
## 676 2.54e-03 -1.16e-03 -1.59e-04 -2.63e-04 -2.35e-04 -3.98e-04 -5.37e-04  
## 677 -5.05e-03 -1.09e-02 -1.06e-02 -9.88e-03 -1.31e-02 -1.23e-02 -1.92e-02  
## 678 3.09e-02 -2.42e-02 -4.96e-02 1.54e-03 -3.85e-02 1.08e-02 -1.95e-02  
## 679 5.39e-03 2.60e-05 -1.09e-02 1.11e-02 1.07e-02 6.37e-03 1.15e-02  
## 680 1.49e-02 1.56e-03 -7.66e-03 -7.55e-03 -1.14e-02 -6.87e-03 -2.25e-02  
## 681 4.30e-04 -6.02e-04 -4.95e-04 -5.75e-04 2.06e-04 2.16e-04 2.07e-04  
## 682 -2.50e-03 4.51e-03 5.33e-03 -2.02e-02 6.19e-03 -1.85e-02 -2.49e-02  
## 683 8.69e-03 -6.98e-03 1.74e-02 1.12e-02 -1.25e-02 -2.33e-02 -4.99e-03  
## 684 -1.99e-02 1.06e-03 1.30e-02 1.28e-02 1.15e-02 9.62e-03 1.90e-02  
## 685 -3.79e-03 1.61e-02 7.09e-03 1.06e-02 5.06e-03 -2.15e-02 4.03e-03  
## 686 4.63e-03 -2.40e-03 -4.17e-04 -1.10e-03 -7.34e-04 -1.04e-03 -9.52e-04  
## 687 8.18e-03 -2.83e-02 -1.05e-02 4.02e-02 -5.49e-03 -1.22e-02 5.29e-04  
## 688 -1.29e-03 4.06e-03 -6.87e-03 6.97e-03 5.23e-03 5.72e-03 3.92e-03  
## 689 5.44e-03 4.26e-03 1.43e-02 1.00e-02 1.37e-02 7.34e-03 1.87e-02  
## 690 -4.89e-05 -8.97e-03 -2.63e-03 -4.40e-03 -3.44e-03 -3.43e-03 -3.11e-03  
## 691 7.40e-03 2.26e-03 -6.82e-03 -6.25e-03 4.89e-03 -6.22e-03 4.90e-03  
## 692 2.89e-04 4.45e-04 1.33e-06 5.84e-07 4.47e-05 5.28e-05 1.03e-04  
## 693 -1.42e-02 -3.62e-05 -7.20e-03 -4.45e-03 -5.19e-03 -3.52e-03 -1.10e-02  
## 694 -2.36e-03 -4.88e-03 -1.25e-03 -2.63e-03 -1.70e-03 -2.26e-03 -1.90e-03  
## 695 -6.02e-04 -8.88e-03 -2.48e-03 -4.06e-03 -3.25e-03 -3.78e-03 -2.95e-03  
## 696 -1.17e-03 -2.36e-03 1.04e-03 -2.59e-03 7.14e-04 9.57e-04 9.84e-04  
## 697 8.86e-03 -3.76e-02 -1.22e-02 -1.69e-02 4.38e-02 -1.60e-02 -1.06e-02  
## 698 -2.03e-02 2.00e-03 -9.78e-03 1.08e-02 1.44e-02 1.00e-02 -1.18e-02  
## 699 -3.87e-03 -5.17e-03 -7.00e-03 2.26e-03 4.30e-03 3.08e-03 -4.55e-03  
## 700 1.59e-03 4.58e-03 2.39e-03 2.56e-03 -1.93e-03 2.83e-03 -2.50e-03  
## 701 1.16e-02 4.36e-03 1.53e-02 9.72e-03 1.46e-02 8.09e-03 -2.12e-02  
## 702 1.42e-02 2.82e-03 1.63e-02 8.72e-03 1.63e-02 8.27e-03 2.96e-02  
## 703 -2.60e-04 -8.82e-03 -2.38e-03 -4.10e-03 -3.50e-03 -3.37e-03 -3.08e-03  
## 704 -3.85e-03 1.89e-02 -1.92e-02 9.54e-03 4.26e-03 8.18e-03 1.75e-03  
## 705 2.73e-02 2.26e-02 2.80e-02 3.74e-02 -1.43e-02 -1.55e-02 -1.74e-02  
## 706 3.89e-03 -3.74e-03 2.95e-03 2.17e-03 -4.23e-03 2.67e-03 -2.61e-03  
## 707 1.32e-02 -1.34e-02 -2.33e-02 9.58e-03 2.27e-02 -2.98e-02 -1.09e-02  
## 708 -2.10e-02 -2.12e-03 1.47e-02 1.05e-02 -2.33e-02 8.43e-03 1.80e-02  
## 709 1.61e-02 1.43e-02 -1.80e-02 7.22e-03 -1.60e-02 8.84e-03 -1.50e-02  
## 710 -7.54e-04 2.80e-02 8.45e-03 1.00e-02 8.84e-03 9.50e-03 1.17e-02  
## 711 -1.84e-02 -1.30e-02 1.46e-02 1.29e-02 -2.38e-02 -2.93e-02 2.04e-02  
## 712 1.44e-03 -5.03e-04 1.26e-05 -6.71e-05 -1.53e-05 3.22e-05 -7.94e-05  
## 713 1.90e-02 -2.14e-02 1.40e-02 -2.72e-02 9.50e-03 -3.12e-02 1.59e-02  
## 714 -1.69e-03 5.59e-04 -4.08e-05 -9.75e-05 -1.21e-04 5.56e-05 7.67e-05  
## 715 7.22e-03 -4.91e-03 1.56e-02 -2.13e-02 1.27e-02 9.23e-03 -1.69e-02  
## 716 2.98e-04 2.40e-05 5.00e-04 -9.35e-04 2.47e-04 4.29e-04 3.30e-04  
## 717 1.22e-02 1.71e-03 1.62e-02 8.65e-03 1.62e-02 8.20e-03 2.82e-02  
## 718 5.66e-04 3.54e-03 1.04e-02 6.73e-03 -2.07e-02 1.20e-02 -1.65e-02  
## 719 1.04e-03 3.80e-03 1.64e-02 9.53e-03 -1.34e-02 4.67e-03 1.34e-02  
## 720 -3.21e-04 -3.22e-03 -6.66e-04 -2.21e-05 -1.96e-04 2.20e-04 -4.23e-04  
## 721 2.52e-03 1.81e-03 -3.72e-04 -8.67e-04 -5.82e-04 -6.17e-04 -1.04e-04  
## 722 -1.19e-02 9.00e-04 -5.72e-03 -3.32e-03 -7.06e-03 -3.23e-03 -1.72e-02  
## 723 9.20e-03 -4.25e-02 -1.16e-02 -1.48e-02 -7.25e-03 -1.40e-02 -5.54e-03  
## 724 -7.83e-03 -2.77e-03 -1.16e-02 -2.80e-03 -1.45e-02 -3.38e-03 1.10e-02  
## 725 -2.22e-03 -9.51e-03 -2.97e-03 -6.20e-03 -3.97e-03 -6.86e-03 -4.18e-03  
## 726 7.26e-03 -1.79e-03 -3.42e-04 3.30e-04 3.50e-04 9.74e-04 -1.48e-05  
## 727 -2.38e-02 -1.93e-03 1.39e-02 8.46e-03 1.46e-02 9.55e-03 -2.75e-02  
## 728 -1.71e-02 2.36e-02 2.60e-02 3.59e-02 3.38e-02 -1.16e-02 -1.82e-02  
## 729 -4.57e-04 -6.63e-04 4.18e-04 -7.39e-04 4.05e-04 3.68e-04 -7.15e-04  
## 730 -1.40e-02 1.37e-02 -3.11e-02 -2.36e-02 3.12e-02 4.16e-02 -3.25e-02  
## 731 -1.93e-04 -6.38e-03 -1.77e-03 -2.21e-03 -1.95e-03 -2.23e-03 -2.53e-03  
## 732 -1.97e-02 -3.44e-03 -1.86e-02 1.14e-02 1.00e-02 7.69e-03 1.58e-02  
## 733 4.21e-05 1.83e-04 8.23e-04 -2.27e-04 7.02e-04 7.06e-04 6.46e-04  
## 734 1.30e-02 -2.92e-03 1.41e-02 1.07e-02 -2.27e-02 9.35e-03 2.83e-02  
## 735 -6.20e-04 3.64e-03 9.46e-03 8.44e-03 -1.37e-02 1.00e-02 -1.16e-02  
## 736 1.13e-02 -1.39e-02 -1.65e-02 1.25e-02 -1.11e-02 -1.76e-02 -4.71e-03  
## 737 6.38e-03 3.27e-03 6.20e-04 1.04e-03 3.98e-04 1.19e-03 -7.70e-03  
## 738 8.17e-03 -3.88e-04 -1.72e-02 8.64e-03 1.03e-02 3.83e-03 1.28e-02  
## 739 -1.69e-03 -2.10e-03 1.36e-03 1.85e-03 1.08e-03 1.44e-03 1.97e-03  
## 740 2.23e-03 1.76e-03 1.95e-03 -1.44e-03 -2.16e-03 -1.41e-03 1.41e-03  
## 741 -1.65e-02 -2.13e-02 1.09e-02 -3.72e-02 -3.55e-02 1.16e-02 1.74e-02  
## 742 -1.69e-02 1.22e-02 -6.36e-03 3.17e-02 -1.24e-02 -7.80e-03 1.54e-02  
## 743 5.30e-04 -1.57e-04 2.54e-05 1.06e-05 -5.33e-06 -1.35e-06 8.31e-06  
## 744 -5.92e-03 2.65e-02 7.41e-03 9.50e-03 4.32e-03 8.74e-03 2.79e-03  
## 745 -3.03e-04 -8.26e-04 -1.10e-03 7.66e-03 -4.18e-04 -3.92e-03 8.00e-04  
## 746 3.65e-05 -8.34e-04 -1.22e-04 -6.48e-04 -5.24e-05 -5.32e-04 5.37e-05  
## 747 -2.13e-02 -4.00e-03 1.22e-02 9.76e-03 -3.75e-02 6.61e-03 2.02e-02  
## 748 4.15e-04 3.65e-04 3.27e-05 -9.51e-05 -8.92e-05 -1.11e-04 2.81e-05  
## 749 -9.50e-03 -1.26e-03 9.07e-03 7.39e-03 -3.40e-03 -5.47e-03 -2.94e-03  
## 750 -5.03e-03 8.05e-03 -1.09e-02 -1.16e-02 3.47e-03 7.03e-03 1.36e-03  
## 751 3.72e-03 -3.74e-03 1.95e-03 2.23e-03 1.67e-03 -5.71e-03 2.17e-03  
## 752 -3.09e-03 6.75e-04 5.23e-03 -1.65e-02 -1.69e-02 -1.57e-02 9.86e-03  
## 753 -1.68e-02 -2.32e-02 -3.21e-02 -3.68e-02 1.27e-02 1.13e-02 -3.01e-02  
## 754 -1.01e-02 3.41e-03 -5.75e-03 5.68e-04 1.66e-02 -2.56e-03 8.95e-03  
## 755 2.47e-03 1.97e-03 -6.35e-05 -3.95e-04 -3.57e-04 -4.45e-04 3.87e-04  
## 756 -8.24e-05 -6.32e-03 -1.71e-03 -2.04e-03 -2.05e-03 -2.14e-03 -2.63e-03  
## 757 2.01e-02 8.19e-03 2.51e-02 -8.82e-03 -1.28e-02 -9.55e-03 -2.57e-02  
## 758 -2.31e-04 9.98e-04 2.22e-04 6.26e-04 -2.71e-03 1.11e-03 -2.58e-03  
## 759 9.18e-07 -6.90e-03 -1.93e-03 -2.34e-03 -2.02e-03 -2.24e-03 -2.60e-03  
## 760 2.13e-02 -4.03e-04 -1.26e-02 -8.23e-03 -1.81e-02 -1.06e-02 1.27e-02  
## 761 1.55e-02 2.44e-04 -8.87e-03 -6.60e-03 -7.54e-03 -5.14e-03 -1.38e-02  
## 762 -5.30e-03 -7.44e-03 -9.99e-03 1.92e-03 5.36e-03 3.76e-03 -6.14e-03  
## 763 2.39e-03 1.55e-03 -3.08e-04 -7.76e-04 -4.22e-04 -4.31e-04 -1.23e-04  
## 764 3.16e-03 1.11e-02 1.18e-02 9.25e-03 1.20e-02 1.13e-02 -2.90e-02  
## 765 1.78e-02 -3.98e-03 -2.71e-02 8.59e-03 8.85e-03 5.91e-03 1.59e-02  
## 766 -6.59e-04 -2.74e-03 -5.82e-04 -3.61e-04 -1.96e-04 3.70e-05 -8.06e-04  
## 767 -1.59e-02 -4.16e-03 1.35e-02 1.08e-02 9.95e-03 -2.03e-02 1.29e-02  
## 768 -4.11e-03 8.60e-03 -1.20e-02 -1.01e-02 6.92e-03 9.69e-03 6.36e-03  
## 769 -9.20e-04 -7.76e-03 -1.97e-03 -3.64e-03 -2.76e-03 -3.07e-03 -2.90e-03  
## 770 -1.18e-02 9.02e-04 -6.07e-03 -9.06e-04 -9.90e-03 -4.32e-03 1.02e-02  
## 771 -1.81e-04 2.71e-02 7.43e-03 8.70e-03 8.71e-03 8.88e-03 1.11e-02  
## 772 1.39e-02 1.73e-02 -7.05e-03 3.14e-02 2.48e-02 -8.76e-03 -2.21e-02  
## 773 2.88e-02 4.59e-04 -1.86e-02 -1.29e-02 1.70e-02 -2.01e-02 5.02e-03  
## 774 -1.67e-05 -7.38e-04 -5.31e-04 -2.17e-03 -3.40e-04 5.56e-03 1.07e-04  
## 775 4.47e-03 4.09e-03 -2.30e-02 1.18e-02 1.18e-02 1.09e-02 1.58e-02  
## 776 -1.47e-02 5.68e-03 2.16e-02 -3.74e-03 -4.60e-03 -3.33e-03 -1.06e-02  
## 777 1.76e-03 -6.76e-03 -2.63e-03 -4.72e-03 -3.20e-03 -5.07e-03 1.03e-02  
## 778 9.31e-03 -4.68e-02 -1.27e-02 -1.97e-02 -1.00e-02 -1.68e-02 -5.38e-03  
## 779 3.17e-03 -4.06e-03 1.76e-03 -4.03e-03 -4.16e-03 1.62e-03 1.84e-03  
## 780 -5.22e-03 2.42e-02 7.48e-03 1.14e-02 5.22e-03 8.30e-03 3.79e-03  
## 781 -3.86e-03 5.90e-03 -8.77e-03 -9.04e-03 2.68e-03 5.19e-03 8.92e-04  
## 782 8.01e-03 -2.87e-02 -1.36e-02 -1.99e-02 -9.96e-03 3.90e-02 -8.74e-03  
## 783 5.79e-05 1.90e-04 2.20e-04 2.38e-04 -2.44e-04 2.99e-04 -1.71e-04  
## 784 -1.10e-02 1.83e-02 2.15e-02 3.69e-02 1.95e-02 -2.40e-02 1.17e-02  
## 785 -2.54e-03 -6.69e-03 -4.50e-03 1.95e-03 -3.78e-03 -5.00e-03 -2.09e-03  
## 786 9.56e-03 4.83e-03 5.87e-03 -9.38e-03 3.75e-03 -1.16e-02 1.41e-03  
## 787 1.36e-02 1.00e-02 -1.37e-02 -1.30e-02 8.90e-03 1.09e-02 -1.30e-02  
## 788 -6.96e-03 -5.58e-03 4.97e-03 3.23e-03 6.67e-03 4.27e-03 -5.54e-03  
## 789 1.10e-04 1.39e-04 -4.54e-04 2.43e-04 1.39e-04 1.79e-04 1.74e-04  
## 790 1.13e-03 1.37e-03 -1.14e-03 -1.40e-03 -1.41e-03 1.75e-03 1.43e-03  
## 791 -8.21e-04 -2.14e-03 -2.38e-04 4.24e-04 2.80e-04 1.45e-03 5.34e-04  
## 792 2.69e-04 -3.79e-04 -4.69e-04 3.25e-04 4.35e-04 2.34e-04 6.39e-04  
## 793 4.02e-03 8.92e-03 9.34e-03 8.91e-03 1.67e-02 1.31e-02 -2.12e-02  
## 794 -3.76e-03 1.07e-02 -2.51e-02 8.80e-03 7.63e-03 -2.44e-02 1.09e-02  
## 795 8.76e-03 -2.23e-03 1.36e-02 1.42e-02 1.33e-02 -1.80e-02 1.55e-02  
## 796 1.37e-02 -7.58e-03 -1.74e-03 -3.64e-03 -3.20e-03 -4.36e-03 -2.91e-03  
## 797 -2.13e-04 -5.60e-03 -1.19e-03 -1.23e-03 -1.57e-03 -1.81e-03 -1.88e-03  
## 798 -7.08e-03 -1.12e-02 -3.80e-02 -2.45e-02 1.68e-02 -3.10e-02 5.56e-03  
## 799 -6.46e-04 9.47e-03 1.43e-02 1.16e-02 1.20e-02 9.18e-03 1.26e-02  
## 800 -1.45e-02 1.01e-02 -6.24e-03 -2.68e-03 -1.11e-02 2.61e-02 1.01e-02  
## 801 4.43e-03 -1.27e-03 -1.93e-04 -1.48e-04 -9.33e-05 1.22e-04 2.67e-05  
## 802 -2.11e-03 3.38e-03 -2.27e-03 3.23e-03 2.80e-03 -1.86e-03 -3.19e-03  
## 803 1.39e-02 7.39e-03 2.35e-02 -3.43e-03 -8.36e-03 -6.11e-03 1.98e-02  
## 804 1.42e-03 5.73e-03 3.44e-03 3.42e-03 -1.43e-03 4.00e-03 -1.37e-03  
## 805 -3.29e-03 7.61e-03 5.12e-03 7.73e-03 -1.21e-02 -1.14e-02 3.35e-03  
## 806 2.30e-04 -1.03e-03 3.21e-03 -1.24e-03 -1.34e-04 -8.55e-04 1.42e-04  
## 807 -9.39e-03 3.11e-03 2.08e-02 -9.12e-03 -2.19e-02 -1.09e-02 1.16e-02  
## 808 1.41e-02 5.27e-04 -8.33e-03 -5.99e-03 -6.63e-03 -5.57e-03 -1.31e-02  
## 809 -8.28e-03 1.59e-03 1.97e-02 -2.44e-02 1.75e-02 -3.24e-02 7.52e-03  
## 810 -4.90e-03 1.16e-02 -6.34e-02 2.58e-02 -7.06e-02 1.91e-02 2.73e-03  
## 811 2.21e-03 -6.07e-04 -3.84e-05 1.47e-04 1.64e-04 1.67e-04 -6.12e-05  
## 812 -2.64e-04 1.21e-03 5.37e-03 -6.07e-03 5.01e-03 6.18e-03 3.27e-03  
## 813 -9.75e-04 -7.36e-03 -2.29e-03 -3.66e-03 -2.42e-03 -4.09e-03 -4.05e-03  
## 814 1.70e-02 3.53e-03 1.70e-02 8.05e-03 1.51e-02 8.37e-03 -2.65e-02  
## 815 1.16e-02 5.52e-03 -5.34e-03 -3.21e-03 1.98e-02 -5.74e-03 -1.96e-02  
## 816 -1.02e-02 -4.67e-03 -3.71e-03 7.79e-03 -3.05e-03 -6.07e-03 -4.47e-04  
## 817 -1.56e-02 2.28e-02 2.46e-02 -5.43e-03 1.97e-02 3.03e-02 8.92e-03  
## 818 -9.95e-06 2.60e-05 1.46e-05 2.40e-05 -5.98e-05 3.24e-05 -5.50e-05  
## 819 2.30e-03 -4.12e-03 1.67e-02 1.08e-02 -5.90e-03 -1.45e-02 -1.37e-03  
## 820 -8.37e-04 7.89e-04 1.12e-03 -8.81e-04 -6.79e-04 -5.03e-04 -7.42e-04  
## 821 6.81e-03 -1.89e-03 -1.29e-02 1.01e-02 -1.09e-02 1.48e-02 -4.40e-03  
## 822 -3.38e-03 1.06e-02 5.48e-03 7.53e-03 -2.23e-02 -2.15e-02 -2.41e-02  
## 823 1.34e-03 -5.08e-04 2.87e-05 -6.16e-05 -9.58e-06 1.42e-05 -5.68e-05  
## 824 1.98e-02 1.27e-02 2.59e-02 -8.26e-03 2.76e-02 -1.03e-02 2.07e-02  
## 825 -7.51e-03 1.50e-03 -2.68e-03 1.31e-03 -6.12e-03 -3.65e-04 7.89e-03  
## 826 1.38e-02 -6.27e-03 -1.60e-03 -2.23e-03 -2.46e-03 -3.55e-03 -2.49e-03  
## 827 5.62e-02 -1.52e-03 1.64e-02 -4.40e-02 2.16e-02 -4.17e-02 1.99e-02  
## 828 6.35e-04 -3.10e-03 8.92e-03 8.17e-03 -1.39e-02 -1.71e-02 -1.43e-02  
## 829 -1.53e-02 3.14e-02 2.06e-02 3.09e-02 -5.22e-02 3.06e-02 1.37e-02  
## 830 9.74e-04 -2.92e-04 -1.42e-05 7.84e-05 6.61e-05 9.17e-05 -5.57e-06  
## 831 7.43e-03 -3.58e-03 4.47e-03 3.51e-03 5.47e-03 4.96e-03 -8.55e-03  
## 832 1.03e-02 -1.25e-03 -1.73e-02 1.01e-02 1.36e-02 8.17e-03 -1.91e-02  
## 833 1.21e-02 2.20e-04 -5.78e-03 -1.34e-03 -6.29e-03 -2.26e-03 1.68e-02  
## 834 2.82e-03 -4.62e-03 -6.61e-03 -1.40e-02 1.10e-02 6.02e-03 1.40e-02  
## 835 3.94e-03 -2.90e-03 -5.05e-03 2.31e-03 3.03e-03 2.95e-03 -4.95e-03  
## 836 8.25e-03 -4.73e-02 -1.22e-02 -1.93e-02 -9.45e-03 -1.64e-02 -5.18e-03  
## 837 -4.15e-03 1.57e-03 5.25e-03 -1.04e-02 -8.36e-03 -8.84e-03 -8.67e-03  
## 838 4.83e-04 5.07e-04 8.59e-06 -1.29e-04 -1.28e-04 -2.29e-04 4.09e-05  
## 839 -4.86e-03 -8.79e-03 -2.97e-02 -1.69e-02 1.56e-02 -2.08e-02 5.57e-03  
## 840 -4.15e-05 3.50e-04 8.05e-03 -3.54e-03 -6.75e-04 7.90e-03 1.92e-04  
## 841 6.89e-03 2.56e-02 3.49e-03 -6.63e-04 1.35e-03 -9.12e-04 5.55e-03  
## 842 2.51e-03 -9.28e-04 9.53e-03 -1.94e-02 6.88e-03 9.55e-03 4.38e-03  
## 843 1.00e-02 2.98e-03 -3.45e-03 -2.63e-04 -7.90e-03 -4.19e-03 8.78e-03  
## 844 -7.56e-04 -2.39e-03 -2.76e-04 1.35e-04 -1.77e-04 2.40e-05 -3.21e-04  
## 845 4.22e-03 -2.22e-03 2.62e-03 2.61e-03 1.96e-03 1.25e-03 2.90e-03  
## 846 1.73e-03 -2.16e-03 5.24e-03 -5.30e-03 5.40e-03 -6.35e-03 3.65e-03  
## 847 -2.74e-03 -2.88e-03 1.89e-03 2.29e-03 1.33e-03 1.35e-03 2.36e-03  
## 848 -5.22e-03 -5.40e-03 3.10e-03 2.56e-03 2.17e-03 1.89e-03 4.28e-03  
## 849 -6.45e-05 9.48e-04 3.51e-06 4.84e-04 -4.52e-05 3.01e-04 -2.17e-04  
## 850 1.38e-03 1.07e-03 -1.08e-03 -1.05e-03 1.82e-03 -7.12e-04 -1.09e-03  
## 851 1.88e-02 -8.30e-03 -3.25e-03 -4.17e-03 -3.41e-03 -4.20e-03 -4.02e-03  
## 852 -2.83e-03 5.41e-03 6.04e-03 -1.95e-02 6.29e-03 -1.82e-02 -2.44e-02  
## 853 2.47e-03 1.64e-03 -2.98e-04 -6.05e-04 -4.06e-04 -5.14e-04 1.83e-04  
## 854 -4.86e-03 -1.22e-02 -4.37e-02 -3.02e-02 1.47e-02 -3.48e-02 6.57e-04  
## 855 -3.80e-03 -5.22e-03 2.62e-03 2.50e-03 -8.93e-03 1.88e-03 4.20e-03  
## 856 8.14e-03 -3.76e-02 4.02e-02 -1.96e-02 -9.12e-03 -1.73e-02 -3.97e-03  
## 857 2.67e-04 -6.47e-04 -3.20e-04 -5.13e-04 1.15e-03 -8.86e-04 1.00e-03  
## 858 1.00e-03 1.66e-03 1.46e-03 1.72e-03 9.18e-04 1.14e-03 1.09e-03  
## 859 -6.86e-04 -1.90e-03 -3.84e-04 -2.84e-04 -2.19e-04 -1.50e-04 -6.14e-04  
## 860 5.70e-04 -8.14e-05 3.97e-03 -1.75e-03 -1.12e-03 4.10e-03 5.07e-03  
## 861 2.22e-02 3.37e-03 2.48e-02 -7.73e-03 -9.41e-03 -3.46e-03 -1.40e-02  
## 862 1.09e-02 7.35e-03 2.08e-02 -9.14e-04 -8.41e-03 -5.07e-03 1.01e-02  
## 863 -1.13e-02 5.29e-04 -8.92e-03 -2.45e-03 -1.27e-02 -5.83e-03 1.07e-02  
## 864 1.52e-02 1.70e-02 -1.02e-02 -9.69e-03 2.82e-02 3.32e-02 -1.98e-02  
## 865 -1.61e-03 1.93e-03 4.55e-03 5.03e-03 5.43e-03 -4.28e-03 -4.88e-03  
## 866 -5.00e-04 -8.47e-03 -2.21e-03 -3.94e-03 -3.38e-03 -3.35e-03 -2.99e-03  
## 867 -5.10e-03 -1.96e-02 -3.85e-02 -3.26e-02 -3.99e-02 -2.72e-02 -5.05e-02  
## 868 1.39e-02 -3.73e-03 -1.02e-03 -4.28e-04 -1.19e-04 1.85e-03 6.46e-04  
## 869 6.38e-05 -2.26e-04 7.72e-04 -2.57e-04 -1.41e-04 -2.40e-04 -2.09e-04  
## 870 -1.38e-02 -6.72e-04 -5.51e-03 8.50e-03 -4.95e-03 1.03e-02 -1.41e-03  
## 871 2.79e-03 2.16e-03 -3.47e-04 -8.19e-04 -3.99e-04 -6.76e-04 8.47e-05  
## 872 9.90e-03 -8.82e-03 3.00e-02 -1.69e-02 -2.76e-02 -1.88e-02 2.92e-02  
## 873 4.32e-03 4.43e-03 1.37e-02 1.25e-02 -4.66e-03 1.61e-02 -2.81e-04  
## 874 4.62e-03 1.01e-02 1.09e-02 8.74e-03 1.19e-02 1.18e-02 -3.03e-02  
## 875 1.86e-02 3.56e-02 -1.32e-02 3.52e-02 2.29e-02 3.09e-02 1.37e-02  
## 876 -3.53e-04 -1.84e-03 2.94e-03 -2.56e-03 -1.75e-03 -2.16e-03 -1.93e-03  
## 877 -2.10e-03 -1.75e-03 -2.40e-03 1.36e-03 2.25e-03 1.89e-03 -1.18e-03  
## 878 1.41e-02 1.71e-02 -1.55e-02 7.03e-03 3.42e-03 5.33e-03 1.28e-03  
## 879 1.41e-02 4.12e-02 3.01e-02 3.65e-02 2.41e-02 2.96e-02 1.38e-02  
## 880 -1.41e-03 -2.83e-03 -7.31e-04 -1.01e-03 -5.35e-04 -1.10e-03 -1.42e-03  
## 881 1.51e-02 5.72e-03 -7.78e-03 -7.09e-03 2.38e-02 -8.71e-03 -2.41e-02  
## 882 8.04e-04 -3.96e-03 9.06e-03 -4.40e-03 -1.34e-03 -4.05e-03 -1.24e-04  
## 883 -5.33e-04 -1.25e-03 3.96e-03 -3.27e-03 3.27e-03 -4.22e-03 2.57e-03  
## 884 2.30e-05 -8.82e-03 -2.64e-03 -4.38e-03 -3.44e-03 -3.41e-03 -3.16e-03  
## 885 -2.51e-02 -7.62e-03 1.24e-02 3.04e-03 -3.99e-02 6.81e-03 -3.09e-02  
## 886 1.41e-02 -2.09e-02 -2.52e-02 -3.58e-02 -2.04e-02 1.63e-02 -1.28e-02  
## 887 -2.14e-02 4.75e-03 1.53e-02 1.32e-02 2.04e-02 1.49e-02 -4.59e-03  
## 888 -9.61e-03 2.36e-02 1.54e-02 3.72e-02 2.96e-02 -2.90e-02 2.83e-02  
## 889 9.17e-03 -1.35e-02 1.07e-02 -1.27e-02 -1.34e-02 -1.63e-02 1.09e-02  
## 890 -1.06e-02 9.46e-03 2.23e-02 -1.47e-02 2.28e-02 -1.73e-02 1.09e-02  
## 891 1.21e-02 -5.16e-04 1.74e-02 8.55e-03 -3.03e-02 4.94e-03 1.95e-02  
## 892 -6.73e-03 -1.72e-02 -1.63e-02 -1.94e-02 -1.43e-02 -1.64e-02 -1.10e-02  
## 893 1.64e-03 7.09e-04 1.20e-02 1.04e-02 9.76e-03 -1.08e-02 1.09e-02  
## 894 1.37e-02 -1.62e-02 -2.18e-02 -3.03e-02 1.26e-02 9.37e-03 2.05e-02  
## 895 9.68e-06 -1.28e-04 -1.64e-05 -8.02e-05 3.82e-06 -4.77e-05 1.70e-05  
## 896 2.74e-03 2.09e-03 -5.77e-03 1.19e-02 -3.21e-03 1.48e-02 -1.59e-04  
## 897 1.68e-02 2.85e-02 -1.03e-02 3.53e-02 -1.68e-02 3.08e-02 1.60e-02  
## 898 5.05e-03 -7.64e-03 -9.63e-03 -1.65e-02 1.20e-02 8.17e-03 1.57e-02  
## 899 3.77e-05 -6.32e-03 -1.77e-03 -2.08e-03 -2.10e-03 -2.15e-03 -2.70e-03  
## 900 -1.44e-02 5.45e-03 -4.99e-03 -2.07e-03 1.83e-02 -5.99e-03 1.02e-02  
## 901 1.98e-02 1.43e-02 -1.20e-02 3.54e-02 -1.87e-02 -1.34e-02 1.71e-02  
## 902 -1.23e-02 -5.34e-03 -4.10e-03 -8.12e-03 -3.64e-03 1.05e-02 -1.82e-03  
## 903 4.82e-03 -5.01e-03 2.60e-03 2.39e-03 1.86e-03 -7.84e-03 2.89e-03  
## 904 -8.60e-03 3.72e-03 -2.88e-03 1.40e-03 1.31e-02 -1.43e-03 6.77e-03  
## 905 -7.24e-03 2.98e-02 7.53e-03 7.95e-03 7.89e-03 1.09e-02 -3.22e-02  
## 906 -4.75e-03 8.64e-03 -1.30e-02 8.57e-03 7.66e-03 -1.10e-02 8.66e-03  
## 907 -2.65e-04 -5.03e-03 -9.37e-04 -1.16e-03 -1.66e-03 -1.61e-03 -1.76e-03  
## 908 2.00e-04 -6.93e-04 -5.24e-04 5.73e-03 -1.72e-04 -1.69e-03 9.50e-04  
## 909 1.67e-02 4.50e-03 2.48e-02 -4.95e-03 -6.36e-03 -2.92e-03 -1.12e-02  
## 910 2.03e-02 -5.75e-03 -3.40e-02 5.81e-03 1.38e-02 4.46e-03 -3.38e-02  
## 911 4.26e-05 -7.42e-04 8.31e-03 -4.19e-03 -1.36e-03 6.76e-03 -2.78e-04  
## 912 -5.93e-04 -2.87e-03 -6.41e-04 -3.74e-04 -2.31e-04 7.04e-05 -8.28e-04  
## 913 -1.78e-03 7.70e-04 -1.18e-04 8.62e-06 -2.72e-05 6.65e-05 3.18e-05  
## 914 -1.16e-02 -8.70e-04 -4.74e-03 -1.48e-03 -3.69e-03 4.59e-04 -7.94e-03  
## 915 -2.17e-02 -9.67e-03 1.48e-02 -3.05e-02 9.81e-03 6.97e-03 1.22e-02  
## 916 7.52e-04 1.31e-03 1.13e-03 1.40e-03 6.79e-04 8.04e-04 9.31e-04  
## 917 1.49e-02 -1.47e-03 1.64e-02 1.06e-02 -3.01e-02 8.58e-03 2.07e-02  
## 918 -1.81e-02 -1.88e-02 -2.23e-02 1.16e-02 -1.61e-02 -2.16e-02 -5.32e-03  
## 919 2.03e-04 -1.02e-04 -1.29e-05 -2.56e-05 -1.62e-05 -5.04e-05 -4.81e-05  
## 920 -5.98e-04 -5.68e-03 -1.44e-03 -1.94e-03 -1.74e-03 -2.16e-03 -2.27e-03  
## 921 1.84e-02 2.42e-03 1.47e-02 9.23e-03 1.11e-02 5.38e-03 1.94e-02  
## 922 3.45e-03 5.22e-03 -3.85e-03 -4.93e-03 4.84e-03 5.01e-03 -4.95e-03  
## 923 -1.85e-02 -1.29e-02 -1.87e-02 -2.41e-02 1.01e-02 7.91e-03 1.08e-02  
## 924 -1.69e-03 -2.10e-04 -3.62e-03 -3.17e-03 -3.75e-03 -3.59e-03 2.65e-03  
## 925 -1.29e-02 3.64e-03 2.00e-02 -1.95e-03 -3.25e-03 -4.04e-04 -7.82e-03  
## 926 1.83e-02 1.16e-02 2.57e-02 -9.02e-03 3.04e-02 -9.01e-03 -1.81e-02  
## 927 3.95e-04 5.65e-05 -1.06e-03 6.14e-03 7.74e-03 -2.65e-03 2.46e-04  
## 928 -1.94e-02 1.33e-03 1.44e-02 1.47e-02 -1.32e-02 1.48e-02 2.72e-02  
## 929 -1.79e-02 -4.64e-03 -2.13e-02 1.16e-02 1.02e-02 8.65e-03 1.32e-02  
## 930 -9.41e-03 -2.64e-03 -6.21e-03 1.04e-02 9.28e-03 -6.54e-03 9.74e-03  
## 931 2.91e-03 1.97e-03 -3.95e-05 -4.24e-04 -3.95e-04 -1.47e-04 3.71e-04  
## 932 -9.39e-03 1.46e-04 -3.62e-03 -3.39e-04 -4.79e-03 -4.98e-04 -1.18e-02  
## 933 3.04e-03 -3.62e-03 7.77e-03 -1.07e-02 7.42e-03 -1.08e-02 5.75e-03  
## 934 2.73e-02 6.69e-04 1.08e-02 -2.41e-04 1.29e-02 -9.47e-06 -4.06e-02  
## 935 -1.82e-02 1.06e-02 -8.81e-03 3.07e-02 -5.76e-03 -6.15e-03 -1.06e-02  
## 936 1.34e-03 -3.05e-03 -2.68e-03 7.59e-03 -2.32e-03 -6.04e-03 -4.72e-04  
## 937 -7.39e-04 -5.18e-03 -1.19e-03 -1.64e-03 -1.71e-03 -2.05e-03 -2.21e-03  
## 938 -5.30e-04 -1.34e-03 -6.35e-05 5.37e-05 -9.28e-05 6.01e-05 -2.69e-04  
## 939 2.63e-03 4.28e-03 -1.51e-02 1.08e-02 6.81e-03 8.39e-03 5.62e-03  
## 940 -2.40e-02 5.69e-04 1.49e-02 9.19e-03 1.58e-02 9.72e-03 2.79e-02  
## 941 1.78e-03 2.41e-03 2.18e-03 2.17e-03 9.39e-04 1.51e-03 1.95e-03  
## 942 3.98e-03 -7.22e-03 -7.65e-03 -1.53e-02 1.37e-02 9.35e-03 -6.98e-03  
## 943 -1.69e-02 -3.76e-04 -8.38e-03 -7.42e-03 -7.41e-03 -5.04e-03 -1.18e-02  
## 944 -5.00e-04 -7.74e-03 -1.82e-03 -3.12e-03 -2.82e-03 -3.15e-03 -2.11e-03  
## 945 1.25e-02 7.73e-05 1.99e-02 8.89e-03 -2.89e-02 6.65e-03 -2.12e-02  
## 946 -9.55e-03 1.62e-03 -1.26e-02 -2.83e-03 1.88e-02 -5.61e-03 9.89e-03  
## 947 5.58e-04 6.46e-04 -3.31e-05 -2.75e-04 -2.18e-04 -3.44e-04 -4.01e-05  
## 948 9.69e-03 -4.51e-02 -1.10e-02 -1.50e-02 -7.99e-03 -1.05e-02 -3.11e-03  
## 949 -1.83e-02 -5.92e-03 -2.69e-02 1.19e-02 1.01e-02 9.00e-03 1.53e-02  
## 950 -2.42e-03 3.85e-03 4.32e-03 -6.57e-03 3.27e-03 -8.14e-03 1.21e-03  
## 951 -1.76e-03 2.10e-03 4.04e-03 -7.28e-03 -9.91e-03 -8.25e-03 1.72e-03  
## 952 1.86e-02 -1.51e-04 1.52e-02 4.46e-03 2.11e-02 9.84e-03 -1.69e-02  
## 953 1.01e-02 -4.71e-02 -1.23e-02 -1.99e-02 -1.08e-02 -1.59e-02 -4.95e-03  
## 954 -3.73e-03 1.37e-03 -4.21e-04 -6.24e-04 -3.80e-04 -1.60e-04 8.27e-05  
## 955 -3.13e-03 9.45e-03 5.53e-03 -1.57e-02 -1.91e-02 9.61e-03 2.57e-03  
## 956 1.12e-02 -1.01e-03 -1.05e-02 -9.93e-03 -1.02e-02 -9.97e-03 5.43e-03  
## 957 -2.23e-02 -3.32e-03 -1.74e-02 1.10e-02 1.41e-02 9.72e-03 -1.79e-02  
## 958 2.48e-03 3.81e-04 8.78e-03 -2.02e-02 7.97e-03 7.36e-03 2.86e-03  
## 959 -1.19e-03 -4.44e-03 -9.85e-04 -1.46e-03 -9.88e-04 -4.58e-04 -9.03e-04  
## 960 -6.81e-03 1.55e-02 6.47e-03 -2.30e-02 7.69e-03 8.26e-03 -2.92e-02  
## 961 -2.30e-04 -2.36e-04 -2.59e-04 1.79e-04 1.87e-04 1.79e-04 -2.63e-04  
## 962 8.33e-03 -4.15e-02 -1.10e-02 -1.43e-02 -6.81e-03 -1.36e-02 -5.89e-03  
## 963 1.58e-02 2.54e-02 -8.36e-03 3.34e-02 -1.62e-02 3.14e-02 1.62e-02  
## 964 1.09e-03 2.97e-02 8.57e-03 1.06e-02 9.31e-03 1.07e-02 1.31e-02  
## 965 -3.05e-05 -5.85e-03 -1.24e-03 -1.49e-03 -1.75e-03 -1.72e-03 -1.82e-03  
## 966 8.80e-03 -5.57e-03 3.59e-03 2.47e-03 4.18e-03 2.09e-03 9.05e-03  
## 967 -8.99e-03 1.94e-03 -2.42e-03 4.08e-04 -5.55e-03 -2.25e-03 6.97e-03  
## 968 1.16e-02 2.57e-03 -4.64e-03 -2.83e-03 -1.03e-02 -5.89e-03 1.00e-02  
## 969 5.44e-03 -7.90e-03 -9.60e-03 -1.72e-02 1.12e-02 7.96e-03 -1.46e-02  
## 970 2.82e-03 -3.51e-03 2.35e-03 -4.60e-03 2.11e-03 1.63e-03 3.51e-03  
## 971 5.65e-03 -1.06e-02 3.23e-02 -1.51e-02 -1.32e-02 -6.73e-03 -9.35e-03  
## 972 -3.19e-04 4.19e-04 -2.04e-04 4.30e-04 4.40e-04 -1.68e-04 -1.85e-04  
## 973 -7.13e-03 2.05e-02 -6.46e-02 2.62e-02 4.74e-03 1.66e-02 -2.23e-03  
## 974 1.41e-02 5.91e-04 -8.34e-03 -6.00e-03 -6.66e-03 -5.57e-03 -1.31e-02  
## 975 1.98e-02 3.03e-03 1.40e-02 1.19e-02 1.13e-02 7.53e-03 1.75e-02  
## 976 -3.66e-03 -2.86e-03 1.72e-02 -2.13e-02 1.57e-02 -2.45e-02 7.04e-03  
## 977 -1.57e-03 1.97e-03 2.25e-03 -2.02e-03 1.77e-03 -2.48e-03 1.09e-03  
## 978 -1.31e-03 -6.33e-03 -1.40e-03 -2.84e-03 -2.38e-03 -2.71e-03 -2.67e-03  
## 979 4.51e-04 4.44e-04 -2.45e-05 -2.20e-04 -1.38e-04 -2.35e-04 -5.49e-05  
## 980 -3.65e-03 7.86e-03 4.40e-03 -5.76e-03 3.07e-03 5.52e-03 1.50e-03  
## 981 -1.10e-02 1.71e-03 -3.58e-03 -1.15e-03 -5.54e-03 -2.46e-03 -1.39e-02  
## 982 -4.19e-03 1.49e-03 -2.84e-04 -5.40e-04 -2.53e-04 -3.60e-05 2.90e-04  
## 983 -1.05e-02 1.45e-03 2.21e-02 -9.62e-03 -1.16e-02 -3.34e-03 -1.53e-02  
## 984 -5.30e-03 2.08e-02 6.47e-03 9.27e-03 4.65e-03 7.43e-03 1.77e-03  
## 985 -7.08e-05 -6.24e-03 -1.74e-03 -2.09e-03 -1.67e-03 -1.85e-03 -2.69e-03  
## 986 -6.66e-04 -3.06e-03 -5.26e-04 -8.40e-04 -1.07e-03 -1.32e-03 -1.21e-03  
## 987 -2.53e-04 -4.87e-04 -4.59e-05 -7.85e-06 -3.92e-05 -6.08e-05 -1.16e-04  
## 988 -4.54e-03 -2.67e-04 4.12e-03 -1.69e-03 -1.83e-03 4.34e-03 3.95e-03  
## 989 -1.02e-03 3.21e-04 -5.72e-06 -5.69e-05 -4.58e-05 -5.98e-05 8.46e-05  
## 990 4.45e-03 -1.20e-03 -1.42e-04 3.84e-04 2.68e-04 5.78e-04 2.55e-05  
## 991 7.65e-03 -2.05e-03 -4.04e-04 5.79e-04 4.53e-04 1.13e-03 1.46e-04  
## 992 -4.39e-04 -1.14e-03 -2.09e-04 2.65e-04 3.17e-04 7.95e-04 -4.83e-05  
## 993 -1.91e-02 1.78e-02 2.61e-02 -2.46e-02 -2.09e-02 4.47e-02 -2.44e-02  
## 994 3.04e-02 -4.76e-03 -2.25e-02 -1.61e-02 -1.53e-02 -1.13e-02 -2.17e-02  
## 995 -7.60e-03 8.57e-04 -2.23e-03 1.23e-03 -4.80e-03 -5.48e-04 7.18e-03  
## 996 3.33e-03 2.18e-03 -2.63e-04 -6.19e-04 -6.41e-04 -3.32e-04 2.56e-04  
## 997 -4.22e-03 1.55e-02 4.91e-03 8.82e-03 1.20e-02 -2.40e-02 -2.09e-02  
## 998 1.19e-02 6.21e-03 -5.03e-03 -1.30e-03 1.70e-02 -6.19e-03 7.72e-03  
## 999 -1.02e-02 -4.00e-03 -1.26e-02 -6.08e-03 -8.71e-03 -1.11e-03 -1.36e-02  
## 1000 -2.06e-02 7.54e-04 1.35e-02 1.08e-02 1.01e-02 7.75e-03 2.03e-02  
## 1001 -1.28e-04 -1.34e-04 4.16e-07 5.40e-05 3.69e-05 8.49e-05 -1.54e-06  
## 1002 -8.82e-04 -4.73e-03 -1.13e-03 -1.65e-03 -1.53e-03 -2.04e-03 -2.01e-03  
## 1003 2.32e-03 1.03e-02 2.12e-02 1.21e-02 2.40e-02 1.29e-02 -6.52e-03  
## 1004 -1.56e-02 1.01e-02 -1.15e-02 -8.16e-03 -1.31e-02 3.21e-02 -2.49e-02  
## 1005 1.60e-02 -9.37e-04 -1.03e-02 -1.02e-02 -9.11e-03 -7.72e-03 -1.43e-02  
## 1006 -1.38e-02 1.19e-02 -1.78e-02 3.63e-02 -2.06e-02 -1.27e-02 1.48e-02  
## 1007 -2.72e-03 -4.94e-03 -1.28e-03 -2.60e-03 -1.22e-03 -2.47e-03 -1.72e-03  
## 1008 -3.94e-03 1.53e-02 6.60e-03 -2.06e-02 3.80e-03 9.65e-03 1.44e-03  
## 1009 9.74e-04 8.39e-04 1.61e-03 1.49e-03 -4.19e-03 1.38e-03 1.59e-03  
## 1010 -2.19e-02 -2.05e-02 1.12e-02 6.00e-03 2.06e-02 -4.07e-02 -1.55e-02  
## 1011 -3.89e-03 1.93e-02 -1.99e-02 1.01e-02 4.31e-03 8.69e-03 1.65e-03  
## 1012 1.31e-02 -4.33e-02 -1.38e-02 -2.07e-02 4.13e-02 -2.00e-02 -2.40e-02  
## 1013 1.52e-02 -5.69e-02 -1.63e-02 -2.76e-02 -2.35e-02 -2.91e-02 -2.65e-02  
## 1014 -3.03e-03 -2.71e-03 2.38e-03 2.16e-03 2.46e-03 2.02e-03 -5.01e-03  
## 1015 2.36e-03 -1.27e-03 -1.02e-04 -5.29e-04 -4.15e-04 -6.39e-04 -5.42e-04  
## 1016 5.47e-03 -1.86e-03 9.28e-03 1.02e-02 1.26e-02 -2.65e-02 1.74e-02  
## 1017 -1.40e-03 -6.35e-03 -1.44e-03 -3.03e-03 -2.74e-03 -3.14e-03 -2.57e-03  
## 1018 -3.25e-03 5.70e-03 3.96e-03 -4.43e-03 2.48e-03 3.56e-03 9.86e-04  
## 1019 -1.79e-03 2.98e-03 2.71e-03 -2.94e-03 2.61e-03 -3.64e-03 1.31e-03  
## 1020 -2.48e-02 -1.02e-02 -4.03e-02 2.88e-03 1.25e-02 5.15e-03 -3.61e-02  
## 1021 -2.74e-02 7.34e-04 1.85e-02 1.05e-02 -1.89e-02 7.90e-03 2.82e-02  
## 1022 -2.18e-02 3.94e-03 1.61e-02 1.12e-02 1.10e-02 7.72e-03 1.61e-02  
## 1023 -6.34e-03 -3.72e-03 -1.34e-03 -2.86e-03 -5.95e-04 -2.07e-03 -1.95e-04  
## 1024 -8.44e-03 3.71e-03 -2.63e-03 1.47e-03 1.28e-02 -1.31e-03 6.59e-03  
## 1025 4.68e-03 -3.22e-03 1.22e-02 -1.06e-02 -7.82e-03 1.15e-02 -8.41e-03  
## 1026 -1.34e-02 -2.30e-03 -1.39e-02 -7.14e-03 -1.25e-02 -6.20e-03 2.08e-02  
## 1027 1.39e-02 2.25e-02 -9.29e-03 3.17e-02 -1.01e-02 3.29e-02 2.33e-02  
## 1028 -1.82e-02 3.75e-03 1.44e-02 1.08e-02 9.49e-03 6.43e-03 1.23e-02  
## 1029 1.43e-02 1.24e-02 5.89e-03 7.33e-03 8.86e-03 -1.62e-02 -1.37e-02  
## 1030 1.14e-02 4.51e-03 -4.12e-03 5.45e-04 1.69e-02 -3.18e-03 9.15e-03  
## 1031 -1.84e-03 6.35e-04 2.30e-05 -9.08e-05 -1.02e-04 -7.45e-06 2.06e-04  
## 1032 7.41e-03 -6.04e-03 -9.03e-03 2.34e-03 1.46e-03 1.48e-03 3.49e-03  
## 1033 -1.49e-03 4.49e-04 -4.38e-05 -8.35e-05 -8.41e-05 -5.09e-05 7.00e-05  
## 1034 -1.19e-05 6.75e-05 1.19e-05 4.10e-05 3.91e-06 2.58e-05 -8.08e-06  
## 1035 3.82e-03 4.14e-03 8.73e-03 8.21e-03 -2.04e-02 1.30e-02 -1.75e-02  
## 1036 -2.00e-02 6.32e-03 1.51e-02 1.19e-02 1.52e-02 1.12e-02 2.09e-02  
## 1037 3.47e-02 2.08e-02 2.67e-02 3.82e-02 -1.91e-02 -1.69e-02 -2.16e-02  
## 1038 1.68e-02 8.02e-04 -7.76e-03 -3.02e-03 -1.32e-02 -4.84e-03 1.19e-02  
## 1039 -8.02e-04 -3.15e-03 -4.03e-04 -5.92e-04 -6.69e-04 -4.80e-05 -6.65e-04  
## 1040 -1.94e-02 2.76e-03 1.44e-02 1.39e-02 1.15e-02 8.68e-03 1.70e-02  
## 1041 3.20e-02 -4.12e-03 -2.39e-02 -1.79e-02 -1.68e-02 -1.16e-02 -2.39e-02  
## 1042 -1.82e-03 4.30e-03 3.85e-03 -5.59e-03 3.99e-03 -5.95e-03 1.68e-03  
## 1043 8.10e-03 -1.34e-03 1.77e-02 9.23e-03 -1.67e-02 1.10e-02 -7.09e-03  
## 1044 6.56e-04 4.31e-04 6.20e-04 -5.11e-04 -5.79e-04 -5.17e-04 -8.75e-04  
## 1045 -3.86e-03 1.60e-02 7.02e-03 1.03e-02 5.16e-03 -2.16e-02 4.33e-03  
## 1046 -1.36e-03 -3.39e-03 -6.88e-04 -1.17e-03 -8.65e-04 -6.43e-04 -8.47e-04  
## 1047 -3.30e-04 2.70e-02 7.54e-03 8.79e-03 8.83e-03 8.95e-03 1.14e-02  
## 1048 -5.71e-03 6.94e-03 -1.17e-02 -1.04e-02 3.06e-02 3.90e-02 -2.35e-02  
## 1049 9.97e-04 9.20e-03 1.10e-02 1.03e-02 1.19e-02 9.79e-03 1.72e-02  
## 1050 1.20e-02 1.27e-02 8.52e-03 9.15e-03 -9.97e-03 -1.12e-02 -8.48e-03  
## 1051 -6.62e-03 -6.78e-03 -1.18e-02 -1.42e-02 3.02e-02 -1.66e-02 -2.40e-02  
## 1052 -7.78e-03 -1.90e-03 -1.74e-02 -7.62e-03 -2.07e-02 -9.19e-03 1.06e-02  
## 1053 -7.78e-04 -1.50e-03 -2.38e-04 -1.70e-04 -2.63e-04 -2.32e-04 -4.95e-04  
## 1054 1.38e-02 1.37e-03 -6.94e-03 -4.27e-03 -8.78e-03 -5.65e-03 -1.92e-02  
## 1055 1.59e-02 1.21e-02 -1.05e-02 3.20e-02 -1.03e-02 -9.59e-03 2.33e-02  
## 1056 1.24e-02 3.73e-03 -4.83e-03 -1.52e-03 -9.79e-03 -4.99e-03 9.69e-03  
## 1057 -1.57e-02 1.04e-02 -1.37e-02 -8.17e-03 -1.39e-02 3.38e-02 2.06e-02  
## 1058 -1.08e-03 -2.63e-03 -3.54e-04 -5.64e-04 -4.52e-04 -3.85e-04 -4.93e-04  
## 1059 -5.56e-04 -1.04e-03 -1.06e-03 -4.85e-03 -8.22e-04 9.52e-03 4.08e-05  
## 1060 -3.85e-03 7.31e-03 4.60e-03 6.15e-03 3.59e-03 -8.24e-03 1.82e-03  
## 1061 -2.02e-03 3.75e-03 4.14e-03 -1.20e-02 5.09e-03 -1.18e-02 -1.72e-02  
## 1062 -2.29e-03 5.05e-03 4.52e-03 -5.45e-03 4.34e-03 -6.16e-03 2.37e-03  
## 1063 -1.57e-02 1.17e-02 -1.51e-02 3.48e-02 -1.35e-02 -1.05e-02 2.63e-02  
## 1064 4.51e-04 3.77e-04 8.31e-06 -1.25e-04 -1.19e-04 -1.44e-04 9.43e-06  
## 1065 -1.64e-02 -1.87e-02 1.24e-02 -2.31e-02 1.39e-02 -2.44e-02 2.11e-02  
## 1066 -8.66e-03 2.32e-03 2.18e-02 -1.23e-02 -2.72e-02 -1.37e-02 1.45e-02  
## 1067 -3.01e-03 5.88e-03 4.65e-03 -6.80e-03 4.37e-03 -8.04e-03 1.73e-03  
## 1068 1.71e-02 1.44e-04 -1.08e-02 -1.06e-02 -9.80e-03 -8.21e-03 -1.44e-02  
## 1069 8.05e-03 -3.54e-02 3.86e-02 -1.55e-02 -6.05e-03 -1.50e-02 -3.00e-03  
## 1070 5.40e-04 -1.40e-04 7.81e-03 1.09e-02 -5.68e-03 -6.83e-03 -4.97e-03  
## 1071 -1.26e-02 6.13e-03 -3.18e-03 9.10e-04 1.71e-02 -3.98e-03 9.03e-03  
## 1072 -4.31e-05 -7.00e-03 -1.93e-03 -2.35e-03 -2.02e-03 -2.25e-03 -2.57e-03  
## 1073 2.54e-03 -5.11e-03 -5.23e-03 1.00e-02 1.14e-02 -1.39e-02 1.57e-02  
## 1074 2.51e-03 -1.23e-03 -2.48e-05 -3.70e-04 -3.77e-04 -6.23e-04 -3.66e-04  
## 1075 -1.87e-02 4.62e-02 2.58e-02 4.04e-02 2.42e-02 3.59e-02 1.54e-02  
## 1076 1.91e-03 6.01e-03 -6.42e-03 1.17e-02 1.17e-02 1.03e-02 1.26e-02  
## 1077 -2.08e-02 5.54e-04 1.38e-02 1.14e-02 9.98e-03 8.06e-03 2.00e-02  
## 1078 -7.59e-04 -1.15e-03 -1.46e-04 -7.76e-05 7.55e-05 4.10e-04 -7.65e-05  
## 1079 7.42e-03 1.06e-03 1.93e-02 6.75e-03 -1.91e-02 7.88e-03 -1.00e-02  
## 1080 1.25e-02 2.17e-03 -5.73e-03 -3.23e-03 -8.12e-03 -5.00e-03 -1.82e-02  
## 1081 5.40e-04 6.80e-04 5.51e-07 -2.25e-05 7.58e-05 1.55e-04 1.83e-04  
## 1082 1.75e-02 2.63e-03 -1.05e-02 -5.83e-03 2.72e-02 -4.34e-03 -1.50e-02  
## 1083 1.61e-02 9.88e-04 -7.26e-03 -2.96e-03 -1.26e-02 -4.79e-03 1.23e-02  
## 1084 9.01e-03 -1.31e-02 1.24e-02 -1.50e-02 1.02e-02 -1.89e-02 1.06e-02  
## 1085 -8.79e-03 3.85e-03 -5.00e-03 5.72e-04 1.49e-02 -1.92e-03 7.91e-03  
## 1086 1.90e-02 2.10e-03 1.47e-02 9.23e-03 9.98e-03 6.34e-03 1.81e-02  
## 1087 3.58e-03 -5.31e-03 -5.49e-03 -8.80e-03 -4.46e-03 1.03e-02 -3.47e-03  
## 1088 -5.98e-03 9.46e-03 6.53e-03 7.90e-03 -9.24e-03 -9.70e-03 -8.43e-03  
## 1089 9.08e-03 -6.00e-03 5.55e-03 2.90e-03 7.01e-03 4.37e-03 -6.83e-03  
## 1090 -1.85e-04 6.07e-04 -2.60e-03 3.83e-04 2.18e-04 5.86e-04 -3.07e-03  
## 1091 6.35e-03 8.50e-03 -6.42e-03 5.58e-03 -6.63e-03 5.86e-03 -8.48e-03  
## 1092 -2.28e-02 -3.84e-03 1.14e-02 4.85e-03 1.40e-02 9.44e-03 -3.18e-02  
## 1093 -3.50e-03 5.76e-05 4.50e-03 -1.88e-02 -1.55e-02 -1.61e-02 -1.60e-02  
## 1094 2.52e-02 -3.84e-03 -1.61e-02 -1.19e-02 -2.29e-02 -1.70e-02 7.11e-03  
## 1095 -1.30e-04 3.22e-04 1.30e-04 2.24e-04 -5.73e-04 4.17e-04 -5.25e-04  
## 1096 2.37e-02 1.82e-02 7.57e-03 1.10e-02 5.02e-03 -2.57e-02 5.23e-03  
## 1097 1.64e-02 -8.30e-03 -2.42e-03 -4.58e-03 -4.06e-03 -4.63e-03 -3.29e-03  
## 1098 -9.03e-04 -3.79e-03 -5.88e-04 -8.12e-04 -1.11e-03 -1.58e-03 -1.36e-03  
## 1099 7.89e-03 -2.87e-02 3.85e-02 -1.68e-02 4.51e-02 -1.62e-02 -9.95e-03  
## 1100 3.41e-03 -3.81e-03 -6.10e-03 1.09e-02 1.56e-02 -1.14e-02 -1.78e-03  
## 1101 -1.31e-03 -2.33e-03 -3.73e-04 -8.05e-04 -6.32e-04 -6.28e-04 -6.44e-04  
## 1102 -2.50e-02 -9.48e-04 1.29e-02 8.43e-03 1.62e-02 8.99e-03 3.26e-02  
## 1103 9.72e-04 3.60e-03 -3.13e-03 8.36e-03 1.13e-02 9.59e-03 -1.37e-03  
## 1104 -2.60e-03 9.44e-04 -5.78e-05 -1.81e-04 -1.89e-04 1.73e-05 2.76e-04  
## 1105 -2.36e-03 8.00e-04 -8.68e-05 -1.61e-04 -1.17e-04 -7.23e-05 2.16e-04  
## 1106 -6.81e-03 1.42e-02 -1.07e-02 7.17e-03 3.84e-03 5.01e-03 2.35e-03  
## 1107 1.83e-04 1.02e-04 6.90e-04 6.00e-04 7.48e-04 -1.13e-03 -5.77e-04  
## 1108 1.42e-02 3.47e-02 -8.66e-03 3.46e-02 2.76e-02 3.14e-02 -2.60e-02  
## 1109 -2.19e-03 -2.46e-03 1.63e-03 1.77e-03 1.22e-03 1.45e-03 2.20e-03  
## 1110 -1.33e-02 8.98e-05 -2.02e-02 -1.33e-02 3.17e-02 -8.90e-03 -2.26e-02  
## 1111 1.31e-02 -5.55e-03 -2.60e-02 6.10e-03 1.96e-02 9.05e-03 -1.49e-02  
## 1112 5.80e-03 8.90e-03 4.58e-03 6.38e-03 4.42e-03 -4.91e-03 3.32e-03  
## 1113 8.55e-03 -3.66e-03 -8.43e-04 -1.73e-03 -1.37e-03 -1.50e-03 -1.40e-03  
## 1114 3.68e-03 5.30e-03 1.42e-02 1.23e-02 -7.76e-03 1.49e-02 2.30e-02  
## 1115 5.90e-03 -9.62e-03 -1.07e-02 -1.96e-02 1.57e-02 1.06e-02 -8.47e-03  
## 1116 1.11e-03 1.03e-03 -3.59e-03 1.77e-03 8.99e-04 1.34e-03 1.33e-03  
## 1117 -1.95e-02 2.16e-03 1.39e-02 1.21e-02 1.16e-02 8.65e-03 1.51e-02  
## 1118 4.50e-03 2.54e-03 3.82e-03 -4.54e-03 -3.56e-03 -3.56e-03 -4.00e-03  
## 1119 -5.41e-04 -1.56e-02 -1.46e-02 -1.35e-02 -2.36e-02 -2.21e-02 2.05e-02  
## 1120 -3.03e-03 3.80e-03 -6.30e-03 -5.71e-03 -7.54e-03 6.24e-03 2.49e-03  
## 1121 -5.31e-03 1.73e-02 -1.83e-02 7.77e-03 3.58e-03 7.32e-03 1.43e-03  
## 1122 -8.71e-03 6.85e-03 2.03e-02 -5.91e-03 1.90e-02 -7.91e-03 1.01e-02  
## 1123 1.69e-02 4.18e-03 -1.12e-02 -1.06e-02 2.95e-02 -9.44e-03 -1.84e-02  
## 1124 -1.91e-03 8.58e-04 -5.02e-03 -3.98e-03 -6.00e-03 -4.23e-03 2.57e-03  
## 1125 -1.43e-03 -5.90e-03 -1.40e-03 -2.92e-03 -2.39e-03 -2.95e-03 -2.45e-03  
## 1126 6.79e-03 6.05e-03 2.01e-02 8.14e-03 1.64e-02 5.50e-03 -2.22e-02  
## 1127 -5.77e-04 -9.09e-04 -7.27e-05 8.14e-05 9.57e-05 3.88e-04 7.06e-05  
## 1128 -3.53e-02 -2.65e-02 -1.13e-02 4.15e-02 -1.05e-02 -1.47e-02 4.93e-02  
## 1129 -1.21e-02 1.29e-02 -4.89e-03 -5.51e-04 1.65e-02 2.62e-02 8.89e-03  
## 1130 2.10e-04 -5.39e-03 -1.29e-03 -1.48e-03 -1.76e-03 -1.65e-03 -1.94e-03  
## 1131 -1.46e-02 -1.04e-02 -1.30e-02 -1.57e-02 9.06e-03 8.83e-03 1.07e-02  
## 1132 1.19e-05 -1.36e-03 -2.20e-04 -1.15e-03 -5.80e-05 -9.21e-04 7.67e-06  
## 1133 2.52e-03 1.73e-03 -3.53e-04 -8.85e-04 -4.56e-04 -5.38e-04 -1.93e-05  
## 1134 3.03e-03 1.83e-03 -4.06e-04 -9.02e-04 -4.64e-04 -3.87e-04 -1.03e-04  
## 1135 2.22e-02 1.53e-02 6.79e-03 -2.49e-02 6.11e-03 9.14e-03 -2.91e-02  
## 1136 -1.56e-03 -3.88e-03 -1.32e-03 -1.43e-03 -6.42e-04 -1.65e-03 -1.69e-03  
## 1137 1.26e-02 1.41e-03 -1.12e-02 -8.42e-03 -7.42e-03 -4.91e-03 -7.65e-03  
## 1138 -2.40e-04 -7.53e-03 -1.72e-03 -3.14e-03 -3.01e-03 -2.81e-03 -2.24e-03  
## 1139 2.01e-02 2.57e-03 1.47e-02 7.27e-03 9.89e-03 1.19e-03 1.92e-02  
## 1140 1.69e-02 1.91e-02 -1.79e-02 9.46e-03 5.10e-03 6.55e-03 2.04e-03  
## 1141 -5.09e-03 -1.00e-02 -1.01e-02 -9.18e-03 -1.32e-02 -1.20e-02 -1.93e-02  
## 1142 -1.84e-02 -7.31e-03 1.38e-02 -2.08e-02 9.80e-03 8.39e-03 1.16e-02  
## 1143 7.23e-04 -1.91e-03 5.25e-03 -5.25e-03 5.24e-03 -6.15e-03 3.57e-03  
## 1144 3.14e-02 3.49e-02 6.91e-03 6.87e-03 6.83e-03 9.69e-03 -3.82e-02  
## 1145 -9.42e-03 1.88e-03 -2.46e-03 4.50e-04 -5.68e-03 -2.31e-03 7.37e-03  
## 1146 1.51e-02 6.22e-03 -7.70e-03 -3.40e-03 1.80e-02 -7.33e-03 6.59e-03  
## 1147 -1.55e-03 3.69e-03 -1.59e-02 8.14e-03 9.39e-03 7.61e-03 1.23e-02  
## 1148 1.06e-04 -6.09e-03 -1.74e-03 -2.01e-03 -1.97e-03 -1.98e-03 -2.76e-03  
## 1149 -5.89e-03 2.71e-02 6.84e-03 9.17e-03 7.92e-03 1.01e-02 -2.81e-02  
## 1150 -3.68e-03 5.37e-03 4.16e-03 -4.53e-03 -4.70e-03 5.06e-03 -6.12e-03  
## 1151 2.15e-03 -7.42e-04 4.44e-06 3.21e-06 1.19e-05 1.01e-04 -1.94e-05  
## 1152 -2.42e-03 -4.39e-03 2.04e-03 -5.18e-03 1.97e-03 2.00e-03 3.55e-03  
## 1153 7.91e-04 6.39e-04 -1.17e-05 -2.22e-04 -1.16e-04 -2.68e-04 8.72e-05  
## 1154 8.57e-04 1.39e-03 -6.45e-03 1.16e-02 -9.27e-03 1.08e-02 -8.53e-03  
## 1155 3.10e-03 -5.67e-03 -6.99e-03 -1.31e-02 1.07e-02 7.23e-03 1.36e-02  
## 1156 1.21e-02 3.67e-04 -5.44e-03 -1.45e-03 -6.41e-03 -1.72e-03 1.53e-02  
## 1157 -2.73e-02 -1.30e-02 1.59e-02 -4.18e-02 2.05e-02 9.96e-03 -1.81e-02  
## 1158 -7.40e-03 -6.35e-03 3.08e-02 -1.61e-02 -1.09e-02 -1.50e-02 -1.22e-02  
## 1159 2.55e-03 -1.67e-03 -3.12e-03 1.67e-03 1.89e-03 1.73e-03 -2.89e-03  
## 1160 -1.43e-02 6.33e-03 2.26e-02 -3.00e-03 -8.04e-03 -4.88e-03 2.06e-02  
## 1161 -1.43e-03 -1.66e-03 1.26e-03 1.39e-03 1.38e-03 1.48e-03 -2.90e-03  
## 1162 -6.77e-04 -1.86e-03 -3.46e-04 -2.49e-04 -1.84e-04 -1.07e-04 -5.84e-04  
## 1163 2.44e-02 1.77e-02 6.53e-03 -2.41e-02 2.94e-03 8.81e-03 1.49e-04  
## 1164 1.51e-02 2.56e-02 8.45e-03 1.03e-02 6.66e-03 1.01e-02 5.17e-03  
## 1165 -2.25e-04 -3.14e-03 -6.94e-04 -3.97e-05 -2.18e-04 2.25e-04 -4.74e-04  
## 1166 -3.36e-03 2.58e-03 -7.64e-03 5.48e-03 -8.65e-03 5.80e-03 -1.06e-02  
## 1167 -6.33e-05 3.57e-04 5.29e-05 2.26e-04 2.16e-05 1.52e-04 -5.98e-05  
## 1168 5.04e-02 -6.41e-03 1.83e-02 -2.81e-02 -4.40e-02 -3.20e-02 8.37e-03  
## 1169 1.22e-02 -3.51e-03 -2.62e-02 6.89e-03 2.08e-02 6.88e-03 -1.53e-02  
## 1170 1.23e-04 2.88e-02 8.53e-03 1.41e-02 1.08e-02 1.08e-02 1.07e-02  
## 1171 1.97e-02 2.40e-02 -1.95e-02 1.08e-02 5.65e-03 1.12e-02 4.37e-03  
## 1172 1.98e-02 -1.25e-02 1.33e-02 -3.60e-02 8.83e-03 8.61e-03 1.39e-02  
## 1173 -1.60e-02 2.06e-02 2.35e-02 -1.26e-03 1.89e-02 2.52e-02 9.39e-03  
## 1174 5.44e-03 7.51e-03 4.72e-03 -4.94e-03 -3.80e-03 8.16e-03 -4.45e-03  
## 1175 1.67e-02 1.81e-02 -9.93e-03 -5.73e-03 1.93e-02 2.81e-02 7.76e-03  
## 1176 8.45e-03 -9.96e-03 -1.57e-02 9.27e-03 1.50e-02 -3.10e-02 -1.86e-02  
## 1177 -2.44e-03 5.21e-03 2.96e-03 4.21e-03 2.92e-03 -2.68e-03 2.17e-03  
## 1178 1.47e-02 -3.57e-02 -1.21e-02 -9.01e-03 3.82e-02 -1.19e-02 4.31e-02  
## 1179 -1.79e-03 -2.42e-03 8.01e-03 -1.40e-02 -9.39e-03 7.67e-03 -9.13e-03  
## 1180 -1.69e-02 -9.01e-04 1.39e-02 1.12e-02 1.64e-02 -1.21e-02 -2.32e-03  
## 1181 -1.71e-02 -1.65e-02 1.23e-02 -3.16e-02 -2.57e-02 1.12e-02 -2.08e-02  
## 1182 -2.94e-02 -3.20e-02 -5.27e-03 -6.79e-03 -6.87e-03 -8.82e-03 -1.23e-02  
## 1183 1.20e-03 1.26e-03 1.42e-03 -1.09e-03 1.07e-03 -1.46e-03 5.74e-04  
## 1184 -1.38e-03 6.04e-03 1.41e-02 1.10e-02 -5.98e-04 1.20e-02 1.01e-03  
## 1185 -1.85e-02 -8.11e-03 1.49e-02 1.22e-02 -1.03e-02 -1.62e-02 -2.52e-03  
## 1186 -2.00e-02 -9.99e-03 9.22e-03 8.22e-03 -3.18e-02 1.13e-02 3.24e-02  
## 1187 9.45e-03 -1.01e-02 -1.59e-02 -2.37e-02 1.87e-02 1.59e-02 -9.21e-03  
## 1188 1.14e-03 4.13e-04 -9.07e-04 -6.62e-04 -1.01e-03 -6.30e-04 5.97e-04  
## 1189 -1.32e-02 4.86e-03 -5.17e-03 -1.18e-03 2.01e-02 -4.03e-03 1.47e-02  
## 1190 -2.38e-03 4.22e-03 2.89e-03 3.91e-03 -1.64e-03 -1.55e-03 -1.73e-03  
## 1191 -5.11e-03 1.69e-02 -1.53e-02 9.46e-03 4.45e-03 7.57e-03 1.97e-03  
## 1192 -1.04e-02 2.38e-02 -2.35e-02 7.75e-03 7.99e-03 6.57e-03 9.94e-03  
## 1193 -2.51e-03 -2.95e-03 2.05e-03 1.80e-03 -5.04e-03 1.50e-03 2.62e-03  
## 1194 -1.27e-03 -6.87e-03 -1.81e-03 -3.26e-03 -2.39e-03 -3.24e-03 -2.71e-03  
## 1195 -6.00e-04 -6.68e-04 -1.14e-05 9.29e-06 5.05e-05 2.26e-04 -2.84e-05  
## 1196 1.62e-02 -8.39e-03 1.26e-02 -2.75e-02 1.01e-02 8.05e-03 1.21e-02  
## 1197 9.63e-03 -9.72e-03 -1.57e-02 1.12e-02 1.98e-02 -1.98e-02 -6.36e-03  
## 1198 -5.65e-03 1.95e-02 -1.90e-02 8.92e-03 3.72e-03 7.97e-03 2.19e-03  
## 1199 4.57e-02 -2.29e-03 2.16e-02 -2.38e-02 -3.98e-02 -2.89e-02 1.05e-02  
## 1200 -3.48e-04 9.66e-05 -8.50e-06 -2.46e-05 -1.60e-05 -1.90e-05 1.52e-05  
## 1201 9.15e-04 8.24e-03 9.35e-03 1.07e-02 7.77e-03 7.42e-03 6.35e-03  
## 1202 -1.43e-02 2.41e-04 -6.02e-03 -3.43e-03 -4.57e-03 -2.88e-03 -1.04e-02  
## 1203 -2.15e-02 -2.69e-05 1.33e-02 9.94e-03 9.99e-03 8.59e-03 1.95e-02  
## 1204 -5.34e-03 1.51e-02 6.66e-03 8.43e-03 1.05e-02 -2.29e-02 -1.89e-02  
## 1205 1.20e-02 1.59e-03 -6.24e-03 -2.98e-03 -7.23e-03 -5.09e-03 1.66e-02  
## 1206 2.51e-03 -4.83e-03 -4.46e-03 -7.86e-03 -7.39e-03 8.82e-03 1.02e-02  
## 1207 2.22e-02 -2.08e-03 -1.55e-02 -1.19e-02 -1.10e-02 -7.95e-03 -1.90e-02  
## 1208 -3.49e-02 -2.70e-02 -1.17e-02 -1.59e-02 -1.31e-02 3.94e-02 -2.03e-02  
## 1209 -2.10e-02 3.35e-04 1.32e-02 9.44e-03 1.01e-02 8.20e-03 1.85e-02  
## 1210 3.59e-03 2.31e-03 -6.09e-04 -1.20e-03 -6.69e-04 -6.57e-04 2.61e-05  
## 1211 -1.21e-02 7.33e-04 -9.28e-03 -4.41e-03 -1.06e-02 -5.11e-03 -2.08e-02  
## 1212 1.42e-02 1.45e-03 -7.46e-03 -5.39e-03 -9.16e-03 -5.60e-03 -2.07e-02  
## 1213 1.74e-03 1.43e-03 -1.87e-04 -6.27e-04 -4.24e-04 -5.26e-04 -6.88e-05  
## 1214 3.01e-03 -1.59e-03 -2.80e-04 -7.71e-04 -5.18e-04 -9.72e-04 -6.76e-04  
## 1215 -1.39e-02 5.11e-03 2.29e-02 -6.16e-03 -1.24e-02 -7.44e-03 2.24e-02  
## 1216 7.02e-03 1.84e-02 9.21e-03 6.97e-03 8.61e-03 6.30e-03 -1.02e-02  
## 1217 1.83e-02 1.37e-02 5.89e-03 -1.95e-02 7.14e-03 8.89e-03 6.57e-03  
## 1218 3.56e-03 1.10e-02 1.07e-02 1.02e-02 8.08e-03 9.22e-03 7.92e-03  
## 1219 5.61e-03 -5.92e-03 -7.81e-03 2.45e-03 3.76e-03 2.50e-03 6.55e-03  
## 1220 -1.35e-02 -5.12e-05 -6.57e-03 -4.06e-03 -4.70e-03 -3.15e-03 -1.07e-02  
## 1221 9.33e-03 -4.34e-02 -1.26e-02 -1.69e-02 -7.73e-03 -1.40e-02 -8.01e-03  
## 1222 -3.38e-03 2.58e-03 -1.32e-02 -1.17e-02 -2.11e-02 3.51e-02 2.21e-02  
## 1223 -3.02e-03 1.11e-03 -1.73e-04 -2.86e-04 -2.90e-04 -5.11e-06 2.84e-04  
## 1224 8.53e-03 -9.70e-03 -1.15e-02 -1.34e-02 -1.31e-02 1.14e-02 1.10e-02  
## 1225 6.27e-03 -5.25e-03 1.86e-02 -2.48e-02 1.91e-02 1.15e-02 -9.55e-03  
## 1226 -2.76e-03 -3.10e-03 -3.84e-03 1.64e-03 1.89e-03 1.65e-03 -4.07e-03  
## 1227 6.61e-03 4.45e-04 -1.14e-02 9.71e-03 1.18e-02 6.88e-03 -1.43e-02  
## 1228 -4.13e-03 7.72e-03 4.97e-03 -1.32e-02 -1.32e-02 8.35e-03 6.44e-03  
## 1229 3.11e-02 -5.03e-03 -2.30e-02 -1.75e-02 -2.18e-02 -1.36e-02 2.65e-02  
## 1230 -3.71e-03 1.34e-03 -3.02e-04 -5.28e-04 -2.89e-04 -1.01e-04 1.66e-04  
## 1231 -8.06e-03 -5.77e-03 -2.54e-03 -4.88e-03 8.69e-03 -4.23e-03 -1.30e-03  
## 1232 2.48e-03 -3.72e-03 -4.88e-03 9.31e-03 -6.43e-03 -1.18e-02 -6.20e-03  
## 1233 -1.33e-02 3.52e-04 -6.64e-03 -3.87e-03 -5.06e-03 -3.14e-03 -1.11e-02  
## 1234 -5.43e-04 -2.88e-03 -7.17e-04 -4.11e-04 -3.49e-04 -2.54e-06 -8.24e-04  
## 1235 -7.83e-03 4.78e-05 -5.33e-03 -9.15e-05 -7.87e-03 -1.72e-03 8.21e-03  
## 1236 -5.30e-03 2.08e-02 -2.44e-02 8.04e-03 6.02e-03 9.48e-03 -2.91e-02  
## 1237 -1.50e-03 -6.35e-03 -1.45e-03 -3.11e-03 -2.56e-03 -3.14e-03 -2.42e-03  
## 1238 1.70e-02 1.54e-02 7.35e-03 -2.05e-02 6.53e-03 8.20e-03 7.64e-03  
## 1239 1.52e-03 8.39e-04 7.65e-03 -1.33e-02 6.22e-03 7.18e-03 3.11e-03  
## 1240 8.96e-03 -4.65e-02 -1.24e-02 -1.95e-02 -9.90e-03 -1.67e-02 -5.28e-03  
## 1241 4.81e-03 3.18e-02 7.30e-03 9.89e-03 9.39e-03 1.14e-02 1.48e-02  
## 1242 -3.19e-02 8.83e-04 1.62e-02 4.41e-03 2.26e-02 6.94e-03 -1.71e-02  
## 1243 7.13e-03 -1.04e-02 -1.23e-02 -2.16e-02 1.63e-02 1.11e-02 -9.13e-03  
## 1244 1.09e-02 -2.95e-03 -1.57e-02 1.28e-02 -1.75e-02 1.14e-02 1.53e-02  
## 1245 -1.80e-02 1.04e-02 -1.07e-02 -8.95e-03 -1.30e-02 3.21e-02 2.12e-02  
## 1246 8.50e-03 -4.68e-02 -1.23e-02 -1.93e-02 -9.58e-03 -1.64e-02 -5.53e-03  
## 1247 1.85e-03 -3.20e-04 9.34e-03 9.01e-03 -1.30e-03 -4.50e-03 2.82e-04  
## 1248 1.55e-02 6.39e-03 2.65e-02 -1.01e-02 -8.64e-03 -8.01e-03 -1.39e-02  
## 1249 1.07e-04 -6.34e-03 -1.88e-03 -2.23e-03 -1.91e-03 -2.07e-03 -2.71e-03  
## 1250 1.44e-02 1.14e-03 -7.38e-03 -4.53e-03 -9.15e-03 -5.85e-03 -1.98e-02  
## 1251 -1.04e-02 2.11e-05 9.07e-03 8.78e-03 -2.86e-03 -5.65e-03 -3.27e-03  
## 1252 -7.78e-03 -4.33e-04 -1.70e-02 -1.93e-02 -1.44e-02 3.76e-02 -1.39e-02  
## 1253 -2.13e-03 -3.15e-03 -4.48e-03 1.71e-03 1.24e-03 1.21e-03 1.65e-03  
## 1254 -3.11e-03 1.12e-02 9.63e-03 9.82e-03 1.14e-02 8.63e-03 1.22e-02  
## 1255 3.95e-04 3.25e-04 -3.33e-05 -1.44e-04 -9.60e-05 -1.85e-04 1.29e-06  
## 1256 4.11e-02 -4.49e-03 2.11e-02 -2.22e-02 -3.65e-02 -2.44e-02 1.22e-02  
## 1257 -4.79e-03 2.18e-02 -2.37e-02 9.16e-03 3.78e-03 8.96e-03 2.73e-03  
## 1258 -1.50e-02 -2.49e-02 1.14e-02 -2.99e-02 1.00e-02 -3.28e-02 1.50e-02  
## 1259 -6.95e-03 2.03e-02 -1.97e-02 9.70e-03 4.60e-03 7.94e-03 3.10e-03  
## 1260 -9.14e-04 -5.96e-03 1.63e-02 -2.14e-02 -3.10e-02 -1.23e-02 -3.97e-02  
## 1261 -6.40e-03 9.20e-04 5.99e-03 5.30e-03 6.74e-03 -1.99e-03 5.99e-04  
## 1262 -1.44e-02 -5.08e-04 1.21e-02 -9.66e-03 1.33e-02 9.93e-03 -3.91e-03  
## 1263 2.55e-02 -1.50e-02 1.23e-02 -4.92e-02 7.62e-03 4.16e-03 1.43e-02  
## 1264 -1.71e-04 -2.65e-04 1.57e-04 -2.98e-04 1.59e-04 1.51e-04 2.39e-04  
## 1265 -8.50e-03 1.95e-02 1.78e-02 3.61e-02 1.61e-02 -3.89e-02 8.25e-03  
## 1266 2.84e-07 -1.09e-06 -3.01e-07 -5.63e-07 -4.18e-08 -3.91e-07 6.98e-08  
## 1267 -2.94e-03 9.85e-04 -1.38e-04 -3.23e-04 -2.26e-04 -1.11e-04 7.51e-05  
## 1268 -1.74e-04 -2.86e-03 -2.81e-03 -3.26e-03 -3.03e-03 -2.92e-03 -4.00e-03  
## 1269 -2.18e-04 -5.22e-03 -1.26e-03 -1.38e-03 -1.56e-03 -1.95e-03 -1.80e-03  
## 1270 6.58e-03 -1.07e-02 -1.19e-02 -1.97e-02 -1.77e-02 5.40e-03 1.04e-02  
## 1271 3.84e-04 1.55e-03 1.09e-02 -5.04e-03 1.19e-02 1.06e-02 -4.20e-04  
## 1272 3.96e-03 -4.62e-03 4.17e-03 2.27e-03 -5.20e-03 3.28e-03 -2.63e-03  
## 1273 -9.30e-05 -4.06e-05 -7.68e-06 -2.91e-05 -1.53e-05 -2.98e-05 -2.54e-05  
## 1274 1.95e-03 1.32e-03 -2.18e-04 -1.97e-04 -4.12e-05 -8.19e-05 -3.41e-05  
## 1275 6.66e-05 -4.38e-03 5.34e-03 -6.14e-03 -4.02e-03 -5.10e-03 -4.13e-03  
## 1276 -1.60e-03 -3.71e-03 -7.08e-04 -1.10e-03 -5.50e-04 -6.54e-04 -8.57e-04  
## 1277 7.75e-06 -1.44e-03 -2.34e-04 -1.21e-03 -6.14e-05 -9.72e-04 1.39e-05  
## 1278 -1.19e-03 -2.41e-03 -3.78e-04 -7.22e-04 -5.77e-04 -4.64e-04 -7.82e-04  
## 1279 -5.90e-03 3.20e-02 4.38e-03 4.79e-03 1.06e-02 1.17e-02 -2.80e-02  
## 1280 -2.54e-05 4.63e-04 9.00e-03 -3.96e-03 -7.92e-04 8.80e-03 3.43e-04  
## 1281 1.83e-03 1.29e-03 -2.20e-04 -6.51e-04 -3.69e-04 -4.42e-04 -1.21e-04  
## 1282 1.18e-02 1.27e-03 -4.20e-03 2.02e-04 -8.27e-03 -1.89e-03 8.98e-03  
## 1283 -3.27e-03 1.22e-02 4.49e-03 1.03e-02 -1.58e-02 -1.51e-02 -1.45e-02  
## 1284 1.44e-02 -1.94e-02 -2.06e-02 9.04e-03 -1.85e-02 -2.82e-02 -8.14e-03  
## 1285 1.64e-03 1.19e-03 -5.72e-05 -3.18e-04 -2.19e-04 -3.20e-04 1.37e-04  
## 1286 -4.44e-03 -1.76e-03 3.58e-03 3.07e-03 4.80e-03 3.96e-03 -1.87e-03  
## 1287 -5.04e-04 -1.06e-03 5.57e-04 6.61e-04 4.12e-04 -1.20e-03 7.07e-04  
## 1288 1.99e-02 1.30e-02 -1.38e-02 3.30e-02 -1.26e-02 -1.15e-02 -1.54e-02  
## 1289 -7.84e-04 -1.15e-03 6.87e-04 -1.34e-03 4.42e-04 4.75e-04 6.14e-04  
## 1290 2.62e-04 -9.73e-04 -6.69e-04 4.94e-03 -2.01e-04 -1.64e-03 8.36e-04  
## 1291 1.04e-02 -4.89e-02 -1.38e-02 -2.06e-02 -1.05e-02 -1.72e-02 -5.32e-03  
## 1292 -1.25e-03 -2.20e-03 -2.48e-03 1.13e-03 -2.79e-03 9.49e-04 1.32e-03  
## 1293 -2.58e-02 2.06e-03 1.57e-02 9.22e-03 1.63e-02 7.43e-03 -2.68e-02  
## 1294 2.29e-02 1.91e-03 1.29e-02 1.13e-02 1.09e-02 7.36e-03 1.82e-02  
## 1295 1.67e-03 -4.70e-03 -1.22e-02 -1.22e-02 -8.95e-03 1.16e-02 -8.88e-03  
## 1296 1.26e-02 -4.71e-02 -1.39e-02 -1.74e-02 -8.55e-03 -1.39e-02 -5.86e-03  
## 1297 6.44e-05 -6.97e-04 -5.80e-04 4.66e-03 -7.40e-05 -1.62e-03 7.06e-04  
## 1298 6.11e-03 -5.62e-03 4.21e-03 2.81e-03 -6.60e-03 4.06e-03 -4.04e-03  
## 1299 -1.91e-03 1.82e-03 2.52e-03 -1.81e-03 -1.49e-03 -1.10e-03 -1.44e-03  
## 1300 3.62e-03 2.34e-03 -5.80e-04 -1.20e-03 -6.44e-04 -6.46e-04 9.18e-05  
## 1301 -9.41e-03 -2.21e-04 -6.89e-03 -1.86e-03 -8.51e-03 -1.06e-03 -1.63e-02  
## 1302 -7.65e-03 1.83e-02 7.62e-03 7.09e-03 -1.85e-02 8.76e-03 -2.07e-02  
## 1303 -7.44e-03 4.02e-02 6.73e-03 2.44e-02 6.00e-03 2.28e-02 4.32e-03  
## 1304 -2.39e-03 8.03e-04 -4.67e-03 -4.20e-03 -4.67e-03 -3.66e-03 4.31e-03  
## 1305 -9.47e-03 -6.08e-04 -7.01e-03 -1.19e-03 -6.95e-03 -1.35e-03 1.58e-02  
## 1306 -1.24e-02 -9.87e-04 -1.00e-02 -4.40e-03 -9.45e-03 -5.25e-03 1.83e-02  
## 1307 -8.13e-03 -1.96e-03 -1.43e-02 -6.38e-03 -1.71e-02 -7.66e-03 8.93e-03  
## 1308 -1.41e-03 1.84e-03 -9.90e-03 8.10e-03 -9.50e-03 9.05e-03 1.18e-02  
## 1309 3.90e-03 3.26e-03 3.72e-03 -3.73e-03 3.80e-03 -3.77e-03 3.50e-03  
## 1310 -1.33e-02 2.41e-02 2.25e-02 -1.74e-02 2.04e-02 3.79e-02 9.04e-03  
## 1311 -1.86e-02 1.98e-02 2.38e-02 -3.20e-02 3.15e-02 3.73e-02 -3.90e-02  
## 1312 -4.74e-04 -9.81e-04 -3.44e-05 5.01e-04 3.55e-04 7.72e-04 1.65e-04  
## 1313 -4.41e-04 -8.16e-03 -2.32e-03 -4.05e-03 -3.23e-03 -3.39e-03 -3.00e-03  
## 1314 1.86e-02 -7.98e-03 -2.98e-03 -3.82e-03 -3.45e-03 -4.09e-03 -4.01e-03  
## 1315 -5.03e-03 1.03e-02 5.81e-03 -2.43e-02 -2.32e-02 1.19e-02 1.09e-02  
## 1316 -8.62e-04 2.84e-02 7.09e-03 1.21e-02 1.15e-02 1.01e-02 8.88e-03  
## 1317 -1.21e-02 -8.84e-03 -9.90e-03 -1.12e-02 -9.13e-03 1.20e-02 1.70e-02  
## 1318 3.79e-03 -1.42e-03 3.21e-03 2.89e-03 4.78e-03 3.71e-03 -2.72e-03  
## 1319 -1.24e-03 -7.59e-03 -1.92e-03 -3.34e-03 -2.57e-03 -3.25e-03 -2.96e-03  
## 1320 -4.39e-04 1.83e-04 -8.43e-06 2.42e-05 -5.07e-07 2.90e-05 3.64e-05  
## 1321 1.83e-03 2.76e-02 5.62e-03 6.01e-03 8.06e-03 9.65e-03 8.79e-03  
## 1322 1.33e-02 -8.29e-04 -7.24e-03 -3.89e-03 -5.14e-03 -2.23e-03 -1.02e-02  
## 1323 -3.89e-04 -3.65e-03 -4.35e-03 -4.79e-03 4.93e-03 -4.82e-03 -6.39e-03  
## 1324 -4.73e-03 -8.40e-03 -3.68e-02 -2.41e-02 1.47e-02 -2.96e-02 4.35e-03  
## 1325 -3.67e-03 7.87e-03 5.14e-03 7.74e-03 -1.13e-02 -1.12e-02 3.30e-03  
## 1326 3.46e-03 2.11e-03 -3.32e-04 -7.69e-04 -6.01e-04 -3.84e-04 3.80e-04  
## 1327 -3.25e-03 4.55e-03 4.69e-03 -6.09e-03 4.31e-03 -6.60e-03 2.53e-03  
## 1328 4.70e-03 1.21e-02 1.17e-02 1.16e-02 8.82e-03 1.08e-02 8.95e-03  
## 1329 -3.27e-03 1.21e-03 -4.46e-05 -1.19e-04 -1.77e-04 -7.42e-05 3.90e-04  
## 1330 -4.21e-04 -1.65e-03 4.88e-03 -5.00e-03 4.13e-03 -5.80e-03 3.13e-03  
## 1331 -3.77e-03 -1.44e-02 -1.28e-02 -1.06e-02 -9.35e-03 -8.33e-03 -8.14e-03  
## 1332 8.41e-03 -4.25e-02 -1.12e-02 -1.45e-02 -6.83e-03 -1.37e-02 -5.64e-03  
## 1333 -1.88e-02 -4.79e-03 -2.22e-02 1.19e-02 1.08e-02 8.04e-03 1.37e-02  
## 1334 -5.87e-05 -8.48e-05 -7.87e-06 1.85e-05 2.15e-05 4.43e-05 -7.70e-06  
## 1335 -3.92e-04 2.81e-02 8.18e-03 9.79e-03 8.56e-03 9.33e-03 1.12e-02  
## 1336 -3.73e-03 3.23e-03 1.51e-02 -2.39e-02 1.81e-02 -2.50e-02 8.52e-03  
## 1337 8.28e-03 -3.86e-02 -1.03e-02 -1.15e-02 -9.70e-03 -1.48e-02 4.18e-02  
## 1338 -5.06e-04 -1.56e-03 -2.94e-04 5.60e-04 4.56e-04 1.37e-03 7.62e-05  
## 1339 -9.74e-04 1.18e-03 1.05e-03 -9.86e-04 -7.78e-04 1.27e-03 -8.67e-04  
## 1340 -1.44e-03 -4.22e-03 -8.23e-04 -1.27e-03 -1.28e-03 -2.16e-03 -1.74e-03  
## 1341 2.08e-03 4.55e-03 1.79e-02 1.21e-02 -6.66e-03 1.44e-02 -1.26e-03  
## 1342 -1.52e-02 3.83e-03 -8.59e-03 -5.09e-03 2.38e-02 -5.70e-03 -2.36e-02  
## 1343 -1.01e-03 -2.11e-03 -4.13e-04 -1.21e-04 1.32e-04 1.07e-03 1.07e-04  
## 1344 1.64e-02 6.75e-04 -9.09e-03 -4.68e-03 -1.03e-02 -5.95e-03 1.87e-02  
## 1345 -3.42e-03 3.77e-03 -1.48e-02 7.00e-03 1.21e-02 7.78e-03 -1.36e-02  
## 1346 -2.23e-03 -3.66e-03 1.96e-03 1.50e-03 2.62e-03 -4.07e-03 -1.84e-03  
## 1347 -9.77e-04 -6.84e-03 -1.41e-03 -2.68e-03 -2.39e-03 -2.88e-03 -1.99e-03  
## 1348 1.56e-03 1.12e-03 -4.60e-03 1.88e-03 8.37e-04 1.42e-03 1.37e-03  
## 1349 1.95e-04 2.09e-04 -3.75e-06 4.18e-05 4.67e-05 8.21e-05 4.02e-05  
## 1350 -1.70e-02 9.67e-03 -1.24e-02 -7.66e-03 -1.26e-02 3.32e-02 2.12e-02  
## 1351 -6.71e-04 -7.67e-03 -2.01e-03 -3.61e-03 -3.09e-03 -3.15e-03 -3.05e-03  
## 1352 2.22e-02 8.83e-04 1.37e-02 8.52e-03 9.60e-03 6.25e-03 1.90e-02  
## 1353 5.89e-03 -1.41e-02 -1.15e-02 -2.08e-02 -1.13e-02 1.14e-02 -7.26e-03  
## 1354 -1.95e-02 2.04e-03 1.33e-02 1.22e-02 1.14e-02 8.92e-03 1.71e-02  
## 1355 -1.04e-02 1.35e-03 -4.41e-03 -4.61e-04 -7.77e-03 -3.42e-03 8.57e-03  
## 1356 -8.17e-03 1.74e-04 -4.57e-03 3.10e-04 -7.20e-03 -1.44e-03 8.34e-03  
## 1357 -1.92e-02 5.27e-03 2.69e-02 -7.14e-03 -6.88e-03 -5.05e-03 -1.15e-02  
## 1358 1.52e-02 4.08e-04 -9.12e-03 -6.51e-03 -7.15e-03 -5.82e-03 -1.37e-02  
## 1359 -3.84e-03 -3.98e-03 2.71e-03 2.43e-03 1.58e-03 1.66e-03 3.60e-03  
## 1360 2.96e-03 -1.75e-03 2.55e-03 1.77e-03 1.59e-03 1.03e-03 2.31e-03  
## 1361 1.11e-02 -8.03e-03 3.35e-02 -2.00e-02 -2.46e-02 -1.58e-02 -2.86e-02  
## 1362 -1.18e-02 5.03e-04 -6.47e-03 -2.23e-03 -7.53e-03 -3.09e-03 1.62e-02  
## 1363 2.21e-03 2.50e-03 -9.71e-03 1.05e-02 1.16e-02 4.17e-03 1.35e-02  
## 1364 -3.63e-03 -2.39e-03 3.68e-03 -1.92e-03 -2.16e-03 -2.47e-03 3.38e-03  
## 1365 1.29e-02 9.57e-03 -1.23e-02 -1.37e-02 3.31e-03 6.53e-03 9.33e-04  
## 1366 -9.56e-04 -1.48e-03 -1.43e-04 2.31e-06 1.21e-04 6.65e-04 -5.72e-05  
## 1367 1.11e-02 5.20e-04 -5.03e-03 -9.88e-04 -5.71e-03 -2.02e-03 1.59e-02  
## 1368 -2.24e-02 -6.55e-03 -2.60e-02 8.91e-03 1.96e-02 1.19e-02 -1.38e-02  
## 1369 2.09e-04 -5.71e-03 -1.33e-03 -1.53e-03 -1.80e-03 -1.68e-03 -1.94e-03  
## 1370 -2.20e-04 1.31e-04 -2.68e-04 -2.31e-04 -1.90e-04 -1.29e-04 -2.04e-04  
## 1371 -1.13e-04 -1.20e-04 8.78e-06 2.29e-05 1.62e-05 4.69e-05 9.26e-06  
## 1372 8.03e-03 -3.26e-02 -6.78e-03 -1.01e-02 2.78e-02 -2.18e-02 2.22e-02  
## 1373 -5.73e-03 -5.43e-03 3.46e-03 2.60e-03 4.04e-03 2.87e-03 8.47e-03  
## 1374 5.96e-03 1.20e-02 -6.59e-03 6.20e-03 5.20e-03 4.84e-03 -1.19e-02  
## 1375 8.08e-04 1.99e-03 2.09e-03 1.92e-03 2.58e-03 1.98e-03 -2.44e-03  
## 1376 -8.59e-03 -1.92e-03 -2.32e-03 6.41e-03 8.57e-03 -4.93e-03 -8.52e-04  
## 1377 -1.93e-02 6.82e-04 1.23e-02 1.19e-02 1.13e-02 9.08e-03 1.83e-02  
## 1378 3.12e-03 -1.21e-03 -7.13e-05 -1.02e-04 -2.54e-04 -4.91e-04 -3.51e-04  
## 1379 -3.37e-02 -3.86e-02 -8.83e-03 -1.12e-02 -4.77e-03 -1.02e-02 -2.89e-03  
## 1380 2.41e-02 -3.34e-03 -1.64e-02 -1.22e-02 -1.20e-02 -8.05e-03 -1.85e-02  
## 1381 -8.82e-03 -5.51e-03 8.37e-03 -5.79e-03 -2.35e-03 -3.35e-03 -5.72e-04  
## 1382 -9.46e-04 -1.53e-03 7.93e-04 -1.80e-03 4.78e-04 5.62e-04 6.86e-04  
## 1383 -4.10e-03 1.60e-03 -1.83e-04 -3.97e-04 -2.59e-04 2.42e-05 2.70e-04  
## 1384 -6.19e-03 2.09e-02 7.14e-03 7.98e-03 -2.26e-02 9.64e-03 -2.37e-02  
## 1385 -1.09e-02 6.66e-03 2.24e-02 -6.97e-03 2.43e-02 -5.39e-03 -2.66e-02  
## 1386 7.20e-03 -8.12e-03 4.12e-03 2.96e-03 4.39e-03 -1.11e-02 -7.90e-03  
## 1387 1.34e-02 -8.10e-03 -2.21e-02 9.69e-03 -2.76e-02 7.30e-03 1.84e-02  
## 1388 -3.70e-04 -7.30e-04 -7.25e-05 -1.42e-05 -5.72e-05 -8.83e-05 -1.62e-04  
## 1389 -2.14e-05 -6.67e-03 -1.78e-03 -2.10e-03 -2.09e-03 -2.15e-03 -2.65e-03  
## 1390 1.65e-03 -3.75e-03 -2.81e-03 9.19e-03 -2.73e-03 -6.73e-03 3.71e-04  
## 1391 -3.03e-02 -5.07e-02 -1.92e-02 -1.86e-02 3.01e-02 -2.71e-02 2.75e-02  
## 1392 -3.98e-03 -1.02e-02 -3.98e-02 -2.62e-02 1.50e-02 -3.18e-02 3.46e-03  
## 1393 -2.05e-02 -9.94e-03 9.30e-03 5.42e-03 -3.62e-02 1.03e-02 3.30e-02  
## 1394 1.48e-02 -1.77e-02 1.35e-02 -2.39e-02 9.57e-03 -2.76e-02 1.29e-02  
## 1395 -6.17e-04 -2.19e-03 -2.95e-04 1.09e-04 -1.96e-04 2.64e-05 -3.76e-04  
## 1396 7.85e-05 -5.55e-03 -1.26e-03 -1.48e-03 -1.75e-03 -1.69e-03 -1.89e-03  
## 1397 1.04e-02 9.62e-03 1.97e-02 9.14e-04 1.64e-02 -3.12e-03 9.12e-03  
## 1398 -2.42e-03 -1.31e-02 -1.52e-02 -1.38e-02 -1.54e-02 -1.40e-02 -2.36e-02  
## 1399 -8.78e-03 3.05e-02 6.62e-03 6.20e-03 1.21e-02 1.22e-02 -2.52e-02  
## 1400 2.17e-03 -6.39e-04 -1.38e-04 4.31e-05 5.88e-05 2.06e-04 -2.03e-04  
## 1401 -1.56e-02 -6.29e-04 -7.56e-03 -6.79e-03 -6.63e-03 -4.51e-03 -1.17e-02  
## 1402 -8.02e-04 3.11e-04 -4.36e-05 9.31e-06 8.68e-06 -1.31e-05 6.66e-06  
## 1403 3.13e-03 -3.18e-03 7.64e-03 -1.00e-02 1.13e-02 -7.23e-03 1.34e-02  
## 1404 4.47e-04 -9.43e-04 1.06e-02 -6.57e-03 -2.48e-03 8.68e-03 -1.18e-03  
## 1405 6.64e-03 -5.83e-04 1.83e-02 1.19e-02 -1.76e-02 1.01e-02 2.84e-02  
## 1406 -7.42e-03 9.91e-04 -1.68e-03 1.44e-03 -4.21e-03 -3.06e-04 6.93e-03  
## 1407 -2.75e-02 -1.32e-02 -2.65e-02 4.98e-03 -2.34e-02 1.01e-02 -1.30e-02  
## 1408 1.81e-02 4.57e-03 -1.08e-02 -6.03e-03 2.40e-02 -8.16e-03 1.81e-02  
## 1409 -8.24e-04 2.22e-03 7.12e-04 8.66e-04 1.29e-03 1.43e-03 -3.91e-03  
## 1410 1.07e-02 -9.46e-03 1.46e-02 1.13e-02 -1.56e-02 -2.31e-02 -1.34e-02  
## 1411 -1.00e-02 -2.22e-03 -2.43e-03 -5.93e-03 9.36e-03 8.08e-03 -2.06e-03  
## 1412 -1.80e-03 9.56e-04 5.71e-03 6.21e-03 -2.50e-03 -3.60e-03 -1.66e-03  
## 1413 -8.13e-03 2.15e-02 -2.00e-02 8.06e-03 3.81e-03 5.74e-03 1.15e-03  
## 1414 1.01e-03 1.49e-03 -4.19e-03 8.54e-03 1.04e-02 6.14e-03 1.39e-02  
## 1415 9.31e-04 6.99e-04 -5.40e-05 -6.59e-05 -9.49e-06 -6.88e-05 -4.65e-05  
## 1416 2.79e-03 1.43e-03 -9.32e-03 1.01e-02 1.78e-02 9.56e-03 -6.70e-03  
## 1417 -1.02e-02 3.00e-04 -4.65e-03 -4.62e-04 -6.09e-03 -6.85e-04 -1.36e-02  
## 1418 -4.71e-05 2.29e-04 4.13e-05 1.44e-04 2.31e-05 9.77e-05 -2.44e-05  
## 1419 -1.08e-02 4.90e-03 -5.65e-03 -9.40e-04 1.60e-02 -4.60e-03 7.24e-03  
## 1420 -2.45e-05 -3.52e-05 1.84e-07 1.13e-06 -6.00e-06 -5.54e-06 -8.22e-06  
## 1421 -5.57e-03 1.10e-02 5.12e-03 6.78e-03 -2.11e-02 -2.41e-02 -1.81e-02  
## 1422 5.39e-04 -2.08e-03 -8.27e-04 -1.87e-03 -1.77e-03 -2.59e-03 2.62e-03  
## 1423 -1.95e-02 1.31e-03 1.41e-02 1.01e-02 -1.82e-02 5.81e-03 1.35e-02  
## 1424 -3.32e-02 -3.79e-02 -8.23e-03 -1.03e-02 -4.57e-03 -9.55e-03 -3.68e-03  
## 1425 5.54e-04 -1.47e-04 -4.00e-06 4.56e-05 2.84e-05 3.65e-05 1.50e-06  
## 1426 8.36e-03 -3.25e-03 -8.28e-04 -8.08e-04 -6.65e-04 -6.72e-04 -1.32e-03  
## 1427 7.84e-03 1.16e-02 6.89e-03 7.62e-03 6.98e-03 -9.33e-03 -1.13e-02  
## 1428 -1.04e-03 -2.97e-03 -5.06e-04 -9.36e-04 -8.08e-04 -1.29e-03 -1.30e-03  
## 1429 -2.64e-03 1.01e-03 -1.77e-02 -1.75e-02 5.60e-03 -1.68e-02 -2.23e-02  
## 1430 -1.39e-02 1.01e-02 -6.18e-03 -2.43e-03 -1.11e-02 2.58e-02 9.23e-03  
## 1431 1.49e-03 -7.01e-03 -5.22e-03 -1.43e-02 -6.94e-03 8.43e-03 -5.30e-03  
## 1432 -1.20e-02 4.58e-03 -4.11e-03 -9.43e-04 1.80e-02 -3.47e-03 1.28e-02  
## 1433 1.59e-02 2.36e-02 7.21e-03 8.98e-03 4.51e-03 6.01e-03 2.13e-03  
## 1434 -6.10e-03 1.49e-02 6.69e-03 8.06e-03 -1.12e-02 7.94e-03 4.92e-03  
## 1435 1.46e-02 3.91e-03 -7.93e-03 -4.21e-03 2.49e-02 -3.55e-03 -1.31e-02  
## 1436 -4.79e-04 -2.52e-03 -4.57e-04 -4.63e-05 -1.28e-04 8.88e-05 -4.79e-04  
## 1437 2.28e-03 3.93e-03 -1.08e-02 1.00e-02 1.93e-02 1.08e-02 -7.16e-03  
## 1438 -1.17e-02 -2.69e-03 1.05e-02 -7.17e-03 -3.55e-03 1.05e-02 -1.43e-03  
## 1439 -3.81e-03 1.20e-02 6.37e-03 1.01e-02 -2.28e-02 -2.15e-02 6.32e-03  
## 1440 -9.30e-03 -9.48e-03 -5.02e-03 -6.48e-03 -2.97e-03 -3.56e-03 -1.22e-04  
## 1441 2.07e-02 -1.38e-02 1.38e-02 6.62e-03 2.05e-02 -4.10e-02 -1.46e-02  
## 1442 2.73e-02 3.09e-02 7.56e-03 9.63e-03 3.57e-03 8.35e-03 3.86e-03  
## 1443 -2.15e-02 1.18e-02 -1.18e-02 -1.27e-02 -1.08e-02 3.58e-02 -1.75e-02  
## 1444 -1.06e-03 -4.63e-03 -9.82e-04 -1.52e-03 -1.36e-03 -1.91e-03 -1.89e-03  
## 1445 -1.04e-03 -7.01e-03 -2.10e-03 -3.37e-03 -2.48e-03 -3.99e-03 -4.07e-03  
## 1446 -5.63e-04 -6.94e-03 -1.69e-03 -2.92e-03 -2.70e-03 -3.06e-03 -2.16e-03  
## 1447 1.98e-02 1.14e-02 5.91e-03 -2.04e-02 -2.02e-02 9.53e-03 -2.41e-02  
## 1448 -3.15e-03 -1.01e-04 9.94e-03 -2.18e-02 1.13e-02 6.84e-03 -1.60e-02  
## 1449 -2.40e-02 -5.78e-03 -2.28e-02 7.52e-03 1.88e-02 1.15e-02 -1.26e-02  
## 1450 -1.65e-03 -5.12e-03 -7.66e-04 -2.00e-03 -1.90e-03 -2.65e-03 -1.49e-03  
## 1451 6.19e-03 -1.25e-02 -8.43e-03 -9.46e-03 -6.52e-03 -7.59e-03 1.85e-02  
## 1452 -1.14e-02 5.59e-03 2.05e-02 -1.66e-03 -1.03e-02 -4.33e-03 1.05e-02  
## 1453 6.75e-03 -7.24e-03 1.79e-02 1.35e-02 -8.82e-03 -1.81e-02 -7.01e-04  
## 1454 1.73e-04 2.93e-02 8.14e-03 9.85e-03 8.27e-03 9.18e-03 1.15e-02  
## 1455 -1.36e-02 1.45e-03 -4.04e-03 9.72e-03 -2.71e-03 1.27e-02 3.58e-04  
## 1456 -1.68e-02 1.02e-02 2.42e-02 -3.79e-03 2.69e-02 -4.52e-03 -1.30e-02  
## 1457 1.39e-02 -1.87e-02 1.30e-02 -2.38e-02 1.46e-02 -2.58e-02 -1.97e-02  
## 1458 -8.54e-04 -1.50e-03 -2.70e-04 -1.95e-04 -1.58e-04 -3.31e-04 -4.29e-04  
## 1459 1.70e-02 -9.38e-04 -1.12e-02 -1.08e-02 -9.76e-03 -8.09e-03 -1.52e-02  
## 1460 -2.72e-03 4.86e-03 4.92e-03 -1.41e-02 6.74e-03 -1.45e-02 6.82e-03  
## 1461 -1.66e-02 -7.21e-03 -2.80e-02 1.15e-02 9.59e-03 8.10e-03 1.53e-02  
## 1462 -4.34e-03 1.25e-02 6.36e-03 -1.50e-02 3.53e-03 7.51e-03 1.66e-03  
## 1463 1.92e-02 1.96e-02 8.16e-03 1.01e-02 1.29e-02 -1.76e-02 -1.50e-02  
## 1464 2.05e-03 -2.43e-03 -4.11e-03 -7.41e-03 8.34e-03 7.35e-03 9.83e-03  
## 1465 -1.54e-02 1.13e-02 -2.09e-02 -1.46e-02 -2.76e-02 3.80e-02 1.45e-02  
## 1466 -2.93e-04 -5.65e-03 -1.51e-03 -1.87e-03 -1.93e-03 -2.10e-03 -2.51e-03  
## 1467 1.25e-02 -1.66e-03 1.41e-02 9.18e-03 -2.20e-02 8.63e-03 -1.94e-02  
## 1468 -1.53e-02 -1.12e-03 -1.11e-02 -7.52e-03 -7.75e-03 -4.32e-03 -1.49e-02  
## 1469 -1.24e-02 3.77e-03 -9.76e-03 -3.17e-03 1.91e-02 -7.52e-03 9.06e-03  
## 1470 6.35e-03 -5.15e-03 -1.25e-02 1.02e-02 -1.51e-02 9.06e-03 2.33e-02  
## 1471 -4.55e-05 4.82e-04 -1.73e-03 8.04e-03 1.08e-02 -4.56e-03 -4.06e-04  
## 1472 1.28e-05 -6.62e-03 -1.90e-03 -2.30e-03 -2.01e-03 -2.22e-03 -2.62e-03  
## 1473 -6.23e-03 1.03e-02 1.41e-02 3.30e-02 -4.92e-02 -3.98e-02 9.46e-03  
## 1474 -1.22e-02 9.05e-03 2.25e-02 -9.14e-03 2.15e-02 -1.39e-02 1.05e-02  
## 1475 -2.21e-03 6.78e-03 1.02e-02 8.70e-03 -1.14e-02 1.30e-02 -9.05e-03  
## 1476 5.94e-05 3.20e-04 5.88e-03 7.66e-03 -7.39e-03 -7.72e-03 5.68e-03  
## 1477 1.01e-03 1.65e-03 1.42e-03 1.68e-03 8.90e-04 1.12e-03 1.06e-03  
## 1478 -3.02e-02 -1.02e-02 1.34e-02 1.69e-03 -3.49e-02 9.14e-03 -1.67e-02  
## 1479 2.01e-04 -1.34e-04 2.12e-04 1.93e-04 -2.50e-04 2.18e-04 -2.37e-04  
## 1480 -1.29e-02 2.70e-03 -1.96e-03 8.36e-03 -1.31e-03 9.64e-03 3.53e-04  
## 1481 -7.97e-03 -2.98e-04 -7.12e-03 -6.16e-04 -9.88e-03 -2.34e-03 8.89e-03  
## 1482 6.77e-03 -2.09e-02 4.04e-02 -2.05e-02 -9.06e-03 4.20e-02 -5.78e-03  
## 1483 3.28e-03 -3.69e-04 -8.20e-03 1.18e-02 -7.65e-03 1.50e-02 -1.84e-03  
## 1484 -3.39e-03 1.42e-02 6.13e-03 -1.68e-02 4.60e-03 9.58e-03 1.31e-03  
## 1485 -1.65e-03 2.04e-03 -4.78e-03 -3.80e-03 2.44e-03 -4.34e-03 1.48e-03  
## 1486 3.90e-03 1.01e-02 -4.94e-03 5.43e-03 -6.33e-03 5.17e-03 -8.56e-03  
## 1487 9.23e-05 -6.40e-03 -1.79e-03 -2.09e-03 -2.10e-03 -2.13e-03 -2.71e-03  
## 1488 -1.26e-02 3.40e-03 2.15e-02 -1.91e-03 -8.30e-03 -2.26e-03 2.12e-02  
## 1489 -1.61e-02 -1.83e-02 1.08e-02 -3.14e-02 -2.92e-02 1.04e-02 1.45e-02  
## 1490 4.40e-03 2.22e-02 4.02e-03 4.16e-03 4.80e-03 1.18e-03 2.55e-03  
## 1491 3.86e-03 -6.92e-03 -6.05e-03 -9.28e-03 -7.62e-03 6.72e-03 1.14e-02  
## 1492 -2.67e-04 -8.65e-03 -2.46e-03 -4.18e-03 -3.21e-03 -3.28e-03 -3.14e-03  
## 1493 -1.11e-02 -5.13e-03 -5.48e-03 -8.95e-03 6.19e-03 5.66e-03 6.70e-03  
## 1494 -1.32e-02 -3.23e-03 -1.06e-02 -6.88e-03 -8.44e-03 -2.39e-03 -1.22e-02  
## 1495 2.04e-03 -6.81e-04 -8.53e-03 9.08e-03 -1.21e-02 6.29e-03 2.01e-02  
## 1496 -1.04e-03 4.30e-03 9.91e-03 8.05e-03 -1.84e-02 8.80e-03 1.53e-02  
## 1497 -5.00e-04 -1.32e-03 -2.75e-04 3.49e-04 3.62e-04 9.93e-04 2.79e-05  
## 1498 6.18e-03 9.44e-03 5.42e-03 -6.89e-03 3.91e-03 5.58e-03 2.06e-03  
## 1499 5.05e-03 3.89e-03 2.09e-02 1.16e-02 -1.30e-02 1.57e-02 -4.86e-03  
## 1500 -2.30e-02 1.97e-03 1.59e-02 1.15e-02 1.12e-02 8.76e-03 1.87e-02  
## 1501 -1.16e-02 -5.43e-04 -4.85e-03 -1.43e-03 -3.43e-03 -1.14e-04 -7.90e-03  
## 1502 -1.49e-03 5.01e-04 3.55e-03 -3.32e-03 -1.72e-03 4.78e-03 -1.97e-03  
## 1503 1.15e-03 1.07e-03 2.56e-05 -2.26e-04 -2.05e-04 -3.49e-04 1.62e-04  
## 1504 -2.31e-02 -1.04e-02 -2.47e-02 7.99e-03 -2.60e-02 7.30e-03 2.74e-02  
## 1505 2.05e-02 4.45e-03 -1.39e-02 -9.79e-03 2.90e-02 -9.37e-03 -2.02e-02  
## 1506 -5.17e-03 -4.83e-03 3.87e-03 2.69e-03 3.49e-03 2.92e-03 -8.57e-03  
## 1507 2.08e-03 1.48e-03 -2.64e-04 -2.62e-04 -1.10e-04 -2.15e-04 1.49e-05  
## 1508 2.05e-02 1.17e-03 1.54e-02 7.90e-03 1.45e-02 7.55e-03 -2.79e-02  
## 1509 -3.66e-03 -1.44e-02 -1.26e-02 -1.05e-02 -9.15e-03 -8.13e-03 -8.56e-03  
## 1510 2.48e-03 1.86e-03 -3.78e-04 -8.83e-04 -3.49e-04 -7.24e-04 8.40e-05  
## 1511 9.19e-03 9.90e-03 6.34e-03 7.73e-03 -8.94e-03 -9.02e-03 8.80e-03  
## 1512 2.00e-02 9.43e-04 1.23e-02 6.61e-03 2.07e-02 8.73e-03 -1.86e-02  
## 1513 3.06e-03 -1.05e-03 1.59e-02 -1.54e-02 1.77e-02 1.33e-02 -4.70e-03  
## 1514 -4.25e-04 -6.21e-03 -1.50e-03 -1.87e-03 -1.75e-03 -1.94e-03 -2.55e-03  
## 1515 -9.96e-03 1.15e-02 3.60e-02 3.95e-02 -1.34e-02 -1.72e-02 -1.65e-02  
## 1516 -5.51e-04 -8.31e-03 -2.43e-03 -3.93e-03 -3.22e-03 -3.73e-03 -3.05e-03  
## 1517 1.73e-03 3.99e-04 -1.43e-03 -1.14e-03 -1.64e-03 -1.26e-03 4.50e-04  
## 1518 1.64e-02 -1.47e-02 4.32e-02 4.63e-02 4.68e-02 -2.72e-02 -2.02e-02  
## 1519 -4.80e-03 2.38e-02 6.52e-03 9.78e-03 4.78e-03 7.95e-03 2.40e-03  
## 1520 2.51e-03 -6.54e-03 -4.31e-03 8.60e-03 -5.22e-03 -1.11e-02 -2.14e-03  
## 1521 -5.67e-04 -5.30e-03 -9.82e-04 -1.11e-03 -1.52e-03 -1.90e-03 -1.65e-03  
## 1522 -2.16e-02 -1.37e-02 -4.10e-02 5.63e-03 1.91e-02 1.17e-02 -2.06e-02  
## 1523 3.96e-03 2.61e-03 -6.20e-04 -1.14e-03 -7.75e-04 -5.98e-04 -3.46e-05  
## 1524 -9.18e-03 2.69e-02 8.49e-03 9.28e-03 8.43e-03 9.78e-03 1.19e-02  
## 1525 1.88e-03 1.46e-03 1.69e-05 -3.98e-04 -3.10e-04 -3.21e-04 3.38e-04  
## 1526 1.53e-02 2.04e-02 -8.97e-03 -1.10e-02 2.51e-02 3.30e-02 -2.99e-02  
## 1527 1.10e-02 -6.13e-03 -1.09e-03 -2.99e-03 -2.83e-03 -4.19e-03 -2.30e-03  
## 1528 -6.19e-04 -4.94e-03 -1.23e-03 -1.68e-03 -1.44e-03 -1.82e-03 -2.19e-03  
## 1529 2.07e-02 3.63e-03 -1.44e-02 -1.34e-02 3.03e-02 -1.11e-02 -2.04e-02  
## 1530 3.41e-03 2.08e-03 -6.02e-04 -1.18e-03 -6.17e-04 -6.26e-04 -2.23e-05  
## 1531 1.92e-02 3.25e-03 -1.82e-02 -1.70e-02 3.98e-03 -2.05e-02 -7.19e-04  
## 1532 7.95e-03 -4.55e-03 3.63e-03 3.26e-03 4.52e-03 2.64e-03 8.13e-03  
## 1533 -6.34e-04 -1.52e-03 5.39e-04 -1.39e-03 -1.43e-03 5.94e-04 6.01e-04  
## 1534 -1.35e-02 6.71e-03 2.21e-02 -1.90e-03 -1.01e-02 -4.91e-03 1.13e-02  
## 1535 -3.56e-03 1.25e-02 6.19e-03 -1.29e-02 4.26e-03 8.28e-03 1.62e-03  
## 1536 -1.23e-02 -1.60e-03 -4.60e-03 7.67e-03 -8.67e-03 5.29e-03 9.16e-03  
## 1537 3.22e-03 2.33e-03 -2.04e-04 -5.26e-04 -4.59e-04 -4.65e-04 4.48e-04  
## 1538 -7.67e-04 -7.43e-04 1.55e-05 2.90e-05 4.96e-05 2.47e-04 2.42e-05  
## 1539 1.80e-02 -1.36e-03 -1.13e-02 -1.12e-02 -1.04e-02 -7.39e-03 -1.55e-02  
## 1540 -7.23e-03 1.82e-02 7.31e-03 8.13e-03 -1.84e-02 6.69e-03 4.68e-03  
## 1541 1.18e-03 1.61e-03 -4.08e-03 9.35e-03 -2.66e-03 1.25e-02 -2.39e-05  
## 1542 1.78e-03 1.45e-03 -8.13e-05 -4.02e-04 -2.81e-04 -4.55e-04 2.56e-04  
## 1543 -2.30e-03 -2.67e-03 1.28e-02 -3.05e-02 1.23e-02 -3.50e-02 1.13e-03  
## 1544 -1.72e-02 -7.27e-03 1.41e-02 1.27e-02 1.48e-02 -2.39e-02 -1.45e-02  
## 1545 8.37e-03 -4.14e-02 -1.10e-02 -1.43e-02 -6.84e-03 -1.36e-02 -5.96e-03  
## 1546 2.46e-02 -5.91e-03 1.18e-02 4.09e-03 -4.57e-02 1.34e-03 2.29e-02  
## 1547 6.79e-03 -1.72e-03 -4.98e-04 9.81e-05 2.57e-04 7.83e-04 -1.48e-04  
## 1548 7.53e-03 8.10e-03 -7.33e-03 7.96e-03 8.36e-03 -4.88e-03 -5.47e-03  
## 1549 -1.53e-02 -7.76e-03 1.33e-02 1.14e-02 -1.38e-02 -1.79e-02 1.46e-02  
## 1550 -1.15e-03 -4.54e-03 -9.55e-04 -1.53e-03 -1.42e-03 -2.02e-03 -1.83e-03  
## 1551 5.04e-02 2.43e-02 1.87e-02 3.49e-02 1.59e-02 -4.32e-02 8.34e-03  
## 1552 1.38e-02 1.97e-02 2.70e-02 -9.05e-03 -1.23e-02 3.09e-02 2.19e-02  
## 1553 1.85e-02 1.82e-03 -1.66e-02 -1.63e-02 3.81e-03 -1.76e-02 1.37e-03  
## 1554 -1.46e-02 1.07e-02 2.36e-02 -4.44e-03 2.35e-02 -6.68e-03 -2.26e-02  
## 1555 -9.23e-05 -6.56e-03 -1.72e-03 -2.06e-03 -2.06e-03 -2.15e-03 -2.61e-03  
## 1556 3.17e-05 -1.64e-03 3.82e-03 -3.67e-03 4.25e-03 -3.75e-03 -5.34e-03  
## 1557 -1.43e-02 2.49e-04 -6.02e-03 -3.43e-03 -4.57e-03 -2.88e-03 -1.04e-02  
## 1558 3.55e-03 -5.22e-03 7.50e-03 -1.04e-02 6.52e-03 -1.32e-02 4.59e-03  
## 1559 -2.19e-02 2.18e-03 1.24e-02 9.46e-03 1.09e-02 4.95e-03 1.62e-02  
## 1560 -7.94e-03 8.77e-04 -3.24e-03 1.11e-03 -6.14e-03 -8.29e-04 7.83e-03  
## 1561 -1.62e-02 -2.39e-03 -7.25e-03 9.92e-03 -1.27e-02 7.63e-03 1.25e-02  
## 1562 1.45e-03 -2.04e-03 7.24e-04 -1.56e-03 5.95e-04 -1.87e-03 6.49e-04  
## 1563 -7.40e-03 2.37e-02 5.15e-03 5.50e-03 -2.55e-02 1.13e-02 -2.24e-02  
## 1564 2.71e-02 -3.71e-02 -4.38e-02 3.24e-04 -3.56e-02 -5.32e-02 -1.83e-02  
## 1565 -6.26e-03 2.14e-02 7.62e-03 1.07e-02 5.22e-03 7.44e-03 3.70e-03  
## 1566 -7.99e-05 -1.15e-04 3.02e-06 5.72e-05 3.99e-05 7.76e-05 1.00e-05  
## 1567 1.86e-04 -5.77e-03 -1.33e-03 -1.53e-03 -1.80e-03 -1.69e-03 -1.93e-03  
## 1568 1.06e-02 -4.57e-02 -1.19e-02 -1.60e-02 -8.25e-03 -1.10e-02 -2.92e-03  
## 1569 -1.24e-02 -7.09e-03 -6.46e-03 -9.41e-03 -7.17e-03 1.05e-02 1.54e-02  
## 1570 -4.93e-04 -2.23e-03 -2.92e-04 4.51e-05 -3.18e-04 1.33e-04 -4.33e-04  
## 1571 5.51e-02 4.03e-03 1.64e-02 -3.29e-02 1.81e-02 -3.36e-02 9.94e-03  
## 1572 -3.53e-04 3.39e-04 -2.55e-04 3.92e-04 -3.67e-04 -3.98e-04 1.94e-04  
## 1573 2.42e-02 1.76e-02 -1.73e-02 -1.92e-02 1.89e-02 2.83e-02 6.83e-03  
## 1574 7.74e-03 -2.78e-02 -1.19e-02 -1.52e-02 -1.25e-02 3.80e-02 4.27e-02  
## 1575 1.61e-02 -6.49e-05 -7.40e-03 -3.00e-03 -9.27e-03 -2.39e-03 -1.81e-02  
## 1576 1.68e-02 1.96e-02 -2.01e-02 1.01e-02 -1.77e-02 1.08e-02 1.20e-02  
## 1577 2.36e-03 -3.70e-03 -1.48e-02 9.70e-03 7.08e-03 -1.92e-02 6.45e-03  
## 1578 2.39e-03 4.14e-03 2.79e-03 -2.49e-03 2.52e-03 2.98e-03 -4.29e-03  
## 1579 2.39e-02 2.95e-02 7.74e-03 9.85e-03 3.89e-03 7.27e-03 3.34e-03  
## 1580 -3.56e-03 3.75e-03 -6.76e-03 6.51e-03 -4.94e-03 8.95e-03 -4.93e-03  
## 1581 5.75e-03 4.35e-03 4.52e-03 -5.45e-03 6.33e-03 -5.06e-03 -5.72e-03  
## 1582 1.82e-04 -7.41e-04 2.38e-03 -7.50e-04 -9.43e-05 -5.25e-04 1.79e-04  
## 1583 -6.88e-04 2.41e-04 -1.65e-05 -7.17e-05 -6.49e-05 -6.15e-05 -8.01e-07  
## 1584 4.42e-03 -5.15e-03 -9.95e-03 1.27e-02 2.12e-02 -1.89e-02 -4.47e-03  
## 1585 -7.04e-03 2.02e-02 -2.92e-02 5.74e-03 -3.08e-02 8.81e-03 -3.33e-02  
## 1586 2.44e-03 1.57e-03 -3.74e-04 -9.11e-04 -4.36e-04 -5.40e-04 -4.62e-05  
## 1587 -9.34e-04 -5.09e-03 -1.09e-03 -1.61e-03 -1.35e-03 -1.85e-03 -2.03e-03  
## 1588 3.53e-02 -6.46e-03 -2.73e-02 -1.76e-02 -2.24e-02 -1.43e-02 2.56e-02  
## 1589 -1.02e-04 -5.07e-03 -1.27e-03 -1.37e-03 -1.55e-03 -1.89e-03 -1.84e-03  
## 1590 -2.79e-03 9.76e-04 -2.65e-04 -4.10e-04 -2.24e-04 -2.96e-04 4.05e-05  
## 1591 1.37e-02 5.07e-03 2.28e-02 -3.63e-03 -5.12e-03 -2.38e-03 -1.01e-02  
## 1592 -2.25e-02 2.40e-05 1.32e-02 1.02e-02 1.07e-02 7.69e-03 2.02e-02  
## 1593 4.08e-03 -4.65e-03 -6.59e-03 -9.24e-03 -6.27e-03 1.12e-02 -6.73e-03  
## 1594 -1.52e-04 -2.18e-04 -3.21e-05 5.04e-05 6.61e-05 1.06e-04 -2.13e-05  
## 1595 4.25e-03 -4.42e-03 1.89e-03 -5.62e-03 1.43e-03 1.49e-03 1.67e-03  
## 1596 -1.07e-02 3.50e-03 -2.63e-03 1.15e-03 1.67e-02 -6.82e-04 1.29e-02  
## 1597 6.29e-03 -1.34e-03 -1.20e-02 1.10e-02 -1.32e-02 1.26e-02 -1.09e-02  
## 1598 2.40e-02 -6.76e-04 -1.51e-02 -7.10e-03 -1.87e-02 -1.07e-02 1.10e-02  
## 1599 -3.59e-02 -2.62e-02 -1.07e-02 4.12e-02 -1.09e-02 -1.57e-02 -1.26e-02  
## 1600 6.01e-04 8.15e-04 -1.81e-03 6.50e-03 -2.89e-03 5.88e-03 -2.92e-03  
## 1601 8.54e-04 7.20e-04 1.01e-05 5.88e-05 5.39e-06 -6.85e-05 9.20e-05  
## 1602 -1.78e-03 -5.18e-04 1.74e-03 -6.02e-04 -5.47e-05 -4.96e-04 1.00e-04  
## 1603 1.90e-02 1.86e-02 2.68e-02 -6.40e-03 -1.34e-02 3.64e-02 -2.31e-02  
## 1604 -1.12e-03 -4.52e-03 -1.13e-03 -1.58e-03 -1.11e-03 -5.62e-04 -1.02e-03  
## 1605 4.01e-03 -9.85e-03 1.34e-02 -1.11e-02 -4.63e-03 -9.36e-03 -1.45e-03  
## 1606 4.44e-03 -4.42e-03 4.08e-03 2.03e-03 -5.97e-03 3.09e-03 -3.46e-03  
## 1607 -2.70e-03 -2.63e-03 2.01e-03 2.30e-03 1.50e-03 1.43e-03 2.51e-03  
## 1608 -5.03e-03 -6.88e-03 1.30e-02 -5.00e-02 2.69e-02 -3.87e-02 -5.13e-02  
## 1609 -1.07e-03 -3.42e-03 -7.08e-04 -1.20e-03 -1.16e-03 -1.71e-03 -1.54e-03  
## 1610 2.93e-04 3.47e-04 5.31e-04 5.25e-04 -1.01e-03 5.07e-04 -9.45e-04  
## 1611 -1.16e-03 -1.61e-03 -1.83e-04 -4.47e-04 -3.27e-04 -5.09e-04 -4.80e-04  
## 1612 3.29e-04 2.71e-04 -2.49e-05 -3.99e-05 -2.16e-05 -6.54e-05 -3.52e-05  
## 1613 1.25e-02 9.25e-03 5.68e-03 7.88e-03 -1.36e-02 -1.36e-02 3.38e-03  
## 1614 1.96e-02 4.68e-03 2.10e-02 -3.38e-03 -1.38e-02 -5.85e-03 1.24e-02  
## 1615 -3.13e-03 -2.46e-03 2.37e-03 2.23e-03 2.50e-03 1.81e-03 -5.05e-03  
## 1616 3.64e-03 5.56e-04 8.42e-03 1.14e-02 7.93e-03 -1.70e-02 6.24e-03  
## 1617 -1.07e-02 -4.06e-03 -1.80e-02 -9.35e-03 -1.52e-02 -8.69e-03 2.05e-02  
## 1618 -4.66e-04 3.63e-04 -5.79e-04 -4.53e-04 6.62e-04 -5.39e-04 5.68e-04  
## 1619 3.26e-03 4.31e-03 -8.16e-03 1.11e-02 1.72e-02 1.48e-02 -3.14e-03  
## 1620 -6.67e-03 -7.29e-03 1.89e-02 -2.28e-02 -3.74e-02 -2.60e-02 9.65e-03  
## 1621 1.83e-02 5.52e-03 -1.09e-02 -8.25e-03 2.80e-02 -7.56e-03 -1.76e-02  
## 1622 1.13e-02 4.39e-03 4.57e-03 -9.24e-03 3.49e-03 -1.10e-02 5.26e-04  
## 1623 -2.05e-02 -6.55e-03 -2.83e-02 9.90e-03 9.76e-03 8.51e-03 1.77e-02  
## 1624 1.33e-02 -2.56e-03 -2.70e-02 6.60e-03 1.53e-02 4.14e-03 -2.86e-02  
## 1625 5.33e-03 -5.50e-03 3.40e-03 2.67e-03 3.08e-03 -8.01e-03 -5.63e-03  
## 1626 1.11e-02 -7.40e-03 -2.38e-02 5.02e-03 -2.20e-02 7.45e-03 -1.29e-02  
## 1627 -1.49e-02 1.47e-02 -1.17e-02 3.31e-02 2.91e-02 -4.88e-03 -1.34e-02  
## 1628 -9.65e-03 4.23e-03 2.07e-02 -1.87e-02 1.72e-02 -2.67e-02 5.92e-03  
## 1629 -4.53e-03 2.53e-02 6.73e-03 1.06e-02 4.98e-03 8.93e-03 2.40e-03  
## 1630 -1.87e-04 -5.97e-05 -4.57e-04 -4.71e-04 -2.86e-04 9.20e-04 -3.46e-04  
## 1631 -6.68e-03 2.72e-02 5.71e-03 8.83e-03 -2.35e-02 1.86e-02 -1.90e-02  
## 1632 2.68e-03 -1.23e-03 -1.98e-04 -3.01e-04 -2.71e-04 -4.39e-04 -5.84e-04  
## 1633 -7.61e-04 8.64e-04 2.65e-03 3.14e-03 2.40e-03 -3.41e-03 1.75e-03  
## 1634 5.66e-04 1.62e-03 -1.62e-03 6.42e-03 -3.15e-03 5.90e-03 6.89e-03  
## 1635 1.45e-02 -4.60e-02 -1.36e-02 -1.33e-02 -7.39e-03 -9.23e-03 -3.86e-03  
## 1636 -6.06e-04 -2.96e-03 -4.30e-04 1.64e-04 -1.89e-04 1.90e-04 -3.49e-04  
## 1637 -3.73e-03 -3.12e-03 2.98e-03 3.28e-03 2.18e-03 2.08e-03 3.59e-03  
## 1638 -1.34e-03 -3.95e-03 -8.10e-04 -1.23e-03 -1.25e-03 -2.08e-03 -1.72e-03  
## 1639 -1.86e-02 -1.02e-02 1.44e-02 1.11e-02 -1.45e-02 -2.23e-02 2.48e-02  
## 1640 -1.59e-02 2.41e-02 2.46e-02 3.73e-02 2.37e-02 -1.51e-02 1.39e-02  
## 1641 -8.36e-03 -6.71e-03 -1.90e-02 -7.87e-03 -1.51e-02 -5.23e-03 2.25e-02  
## 1642 -2.42e-03 -1.89e-03 1.81e-03 1.40e-03 -2.14e-03 2.39e-03 -1.16e-03  
## 1643 1.83e-02 1.51e-03 -1.10e-02 -6.35e-03 -1.15e-02 -7.26e-03 2.06e-02  
## 1644 2.74e-03 -1.30e-03 1.56e-02 -1.49e-02 9.58e-03 5.13e-03 1.05e-02  
## 1645 -4.86e-03 8.52e-03 -1.14e-02 8.38e-03 4.11e-03 -1.40e-02 3.01e-03  
## 1646 -1.31e-02 6.23e-04 -4.64e-03 -3.67e-03 -7.38e-03 -3.75e-03 -1.60e-02  
## 1647 1.11e-02 8.34e-04 -4.78e-03 -5.68e-04 -5.82e-03 -1.87e-03 1.62e-02  
## 1648 2.62e-03 -2.50e-03 7.37e-03 -1.47e-02 -1.58e-02 8.27e-03 4.99e-03  
## 1649 1.09e-03 7.61e-04 -4.92e-05 -2.59e-04 -2.41e-04 -2.11e-04 -6.38e-06  
## 1650 -1.40e-04 -2.94e-03 -7.04e-04 -6.95e-05 -2.54e-04 1.89e-04 -5.42e-04  
## 1651 1.01e-02 -5.08e-02 -1.51e-02 -2.36e-02 -1.06e-02 -1.74e-02 -7.57e-03  
## 1652 3.86e-03 -6.09e-03 -5.30e-03 -8.66e-03 -9.04e-03 6.68e-03 7.78e-03  
## 1653 1.23e-02 -6.99e-03 -1.76e-03 -4.20e-03 -3.25e-03 -4.64e-03 -3.14e-03  
## 1654 -1.18e-02 1.68e-02 -3.53e-02 3.69e-02 2.03e-02 -2.63e-02 1.22e-02  
## 1655 -2.27e-03 -4.93e-03 1.99e-03 -5.18e-03 -4.37e-03 2.12e-03 -4.08e-03  
## 1656 6.50e-03 -3.76e-03 -8.34e-04 -1.70e-03 -1.39e-03 -2.80e-03 -1.91e-03  
## 1657 -2.69e-04 -1.37e-03 -6.68e-03 1.03e-02 -8.50e-03 9.66e-03 -4.15e-03  
## 1658 1.56e-02 1.64e-04 -9.52e-03 -6.79e-03 -7.39e-03 -6.01e-03 -1.40e-02  
## 1659 -6.97e-03 -6.85e-03 -2.43e-02 -1.19e-02 -2.61e-02 -1.22e-02 1.13e-02  
## 1660 -8.68e-03 -5.87e-03 -2.50e-02 -1.53e-02 -2.82e-02 -1.52e-02 1.30e-02  
## 1661 2.23e-02 1.17e-03 1.48e-02 9.31e-03 1.04e-02 6.71e-03 2.10e-02  
## 1662 -5.32e-04 -1.56e-03 -2.60e-04 5.88e-04 4.86e-04 1.39e-03 1.09e-04  
## 1663 1.41e-02 -5.94e-03 -2.06e-03 -2.97e-03 -1.88e-03 -1.55e-03 -2.01e-03  
## 1664 7.74e-03 -2.00e-02 -1.03e-02 -1.74e-02 -1.02e-02 -1.58e-02 -5.82e-03  
## 1665 2.29e-02 8.35e-04 1.32e-02 8.16e-03 9.23e-03 6.03e-03 1.86e-02  
## 1666 7.81e-03 -3.52e-02 -1.01e-02 -1.18e-02 4.13e-02 -1.06e-02 -7.50e-03  
## 1667 -4.77e-03 -1.71e-03 -1.00e-03 -2.58e-03 -1.10e-03 4.13e-03 -5.53e-04  
## 1668 -6.46e-03 -5.86e-03 4.20e-03 2.24e-03 6.20e-03 4.12e-03 -6.85e-03  
## 1669 -1.81e-02 4.59e-02 2.62e-02 4.05e-02 2.37e-02 3.73e-02 1.56e-02  
## 1670 5.11e-03 -1.18e-03 -1.24e-04 4.75e-04 2.79e-04 6.37e-04 1.36e-04  
## 1671 2.53e-02 -3.07e-03 -1.79e-02 -1.03e-02 -1.58e-02 -1.07e-02 2.30e-02  
## 1672 2.50e-02 -1.51e-02 1.19e-02 -4.21e-02 7.97e-03 8.51e-03 1.51e-02  
## 1673 9.20e-03 -2.17e-03 -6.62e-04 4.91e-04 4.49e-04 1.25e-03 2.57e-04  
## 1674 7.49e-04 -4.88e-03 -1.65e-03 -4.10e-03 -2.50e-03 -4.92e-03 8.46e-03  
## 1675 -7.84e-03 3.08e-02 9.10e-03 9.72e-03 4.50e-03 6.95e-03 3.96e-03  
## 1676 3.59e-03 -1.63e-03 -1.21e-04 -5.96e-04 -5.51e-04 -9.03e-04 -4.30e-04  
## 1677 -2.61e-03 8.94e-04 -1.72e-04 -2.68e-04 -2.53e-04 -7.40e-06 1.81e-04  
## 1678 -4.12e-04 -7.78e-04 3.97e-04 5.00e-04 3.29e-04 -1.02e-03 4.50e-04  
## 1679 -7.73e-05 -1.25e-04 -7.89e-06 5.05e-05 3.84e-05 7.69e-05 7.92e-06  
## 1680 1.25e-02 2.07e-02 7.77e-03 9.28e-03 4.22e-03 5.72e-03 2.89e-03  
## 1681 -2.68e-02 4.54e-03 1.70e-02 9.95e-03 1.22e-02 4.28e-03 1.75e-02  
## 1682 -4.11e-02 -2.95e-02 3.75e-02 -2.70e-02 -1.25e-02 4.92e-02 -9.69e-03  
## 1683 1.12e-02 -4.09e-03 -1.04e-03 -6.70e-04 -6.55e-04 -7.45e-04 -7.54e-04  
## 1684 -7.25e-05 -7.19e-05 6.72e-07 2.77e-05 1.86e-05 4.17e-05 -7.39e-07  
## 1685 5.97e-03 -1.18e-02 -2.24e-02 -2.39e-02 -1.78e-02 1.26e-02 -1.65e-02  
## 1686 8.60e-04 -3.20e-03 -2.43e-03 -7.51e-03 8.27e-03 6.01e-03 -6.55e-03  
## 1687 2.33e-03 1.79e-03 -2.22e-04 -7.42e-04 -4.59e-04 -5.25e-04 1.69e-05  
## 1688 -1.64e-03 8.56e-03 8.78e-03 9.50e-03 7.42e-03 8.08e-03 7.09e-03  
## 1689 -2.40e-04 1.76e-03 2.21e-04 9.09e-04 -2.20e-04 6.19e-04 -1.76e-04  
## 1690 -5.53e-03 -1.11e-02 -1.13e-02 -9.14e-03 -1.23e-02 -1.25e-02 3.18e-02  
## 1691 3.96e-03 5.18e-03 -3.63e-03 4.69e-03 3.94e-03 -4.71e-03 -5.71e-03  
## 1692 -1.19e-02 1.43e-03 -4.09e-03 -1.40e-03 -6.05e-03 -2.72e-03 -1.48e-02  
## 1693 6.96e-03 -4.56e-03 4.12e-03 2.50e-03 4.41e-03 2.48e-03 8.25e-03  
## 1694 2.01e-04 1.46e-04 -3.71e-04 2.66e-03 2.35e-03 -1.32e-03 2.52e-03  
## 1695 -1.55e-03 -2.39e-03 -1.78e-04 -6.35e-04 -5.75e-04 -5.32e-04 -5.39e-04  
## 1696 8.14e-04 8.42e-04 1.11e-05 -1.92e-04 -2.03e-04 -3.40e-04 9.76e-05  
## 1697 -5.40e-03 -2.75e-03 1.57e-02 -3.25e-02 1.68e-02 -3.63e-02 4.62e-03  
## 1698 -1.47e-02 1.75e-02 -1.02e-02 3.43e-02 2.12e-02 -9.90e-03 1.29e-02  
## 1699 3.81e-03 -4.59e-03 -1.68e-02 1.01e-02 7.44e-03 -2.05e-02 6.58e-03  
## 1700 -1.17e-02 5.55e-03 -2.32e-03 6.40e-04 1.52e-02 -3.26e-03 6.70e-03  
## 1701 3.49e-03 -5.91e-03 -6.14e-03 1.00e-02 -9.88e-03 -1.58e-02 1.06e-02  
## 1702 5.71e-04 -6.23e-04 -8.30e-04 3.64e-03 -1.06e-03 -1.70e-03 -1.11e-03  
## 1703 -2.04e-02 -4.18e-03 1.14e-02 9.17e-03 -3.67e-02 6.33e-03 1.86e-02  
## 1704 5.12e-03 -1.45e-02 -5.75e-03 -8.40e-03 3.17e-02 3.37e-02 2.65e-02  
## 1705 1.23e-02 1.43e-02 7.40e-03 9.24e-03 -1.10e-02 -1.06e-02 -1.35e-02  
## 1706 2.58e-02 -1.90e-02 1.07e-02 9.05e-03 -3.64e-02 -4.15e-02 2.04e-02  
## 1707 -2.12e-04 8.15e-05 -4.42e-06 1.08e-05 9.57e-07 1.44e-05 1.49e-05  
## 1708 1.36e-02 1.96e-02 -1.38e-02 9.70e-03 5.53e-03 9.27e-03 3.97e-03  
## 1709 3.46e-03 3.62e-03 -3.45e-03 3.76e-03 2.30e-03 -5.24e-03 1.02e-03  
## 1710 -8.93e-04 -1.17e-03 8.37e-04 9.11e-04 9.82e-04 -1.49e-03 -1.13e-03  
## 1711 8.30e-04 6.53e-04 -1.16e-04 -4.22e-04 -2.16e-04 -3.67e-04 -8.60e-05  
## 1712 -7.31e-03 2.74e-02 6.50e-03 7.95e-03 7.94e-03 9.86e-03 1.14e-02  
## 1713 3.07e-03 1.98e-03 -1.57e-04 -5.29e-04 -5.01e-04 -2.35e-04 2.99e-04  
## 1714 -7.01e-04 -2.42e-03 -4.52e-04 -2.32e-04 -2.22e-04 2.38e-05 -7.77e-04  
## 1715 -1.93e-02 -3.99e-02 -4.22e-02 3.99e-03 -3.26e-02 -4.32e-02 -1.41e-02  
## 1716 -2.37e-02 -1.19e-02 -4.14e-02 1.75e-03 1.18e-02 4.81e-03 -3.76e-02  
## 1717 1.83e-02 1.32e-02 -1.29e-02 3.35e-02 -9.11e-03 -1.04e-02 -1.38e-02  
## 1718 -2.89e-03 1.98e-03 -1.07e-02 8.06e-03 -8.77e-03 1.14e-02 -7.33e-03  
## 1719 -4.48e-04 -1.24e-03 -1.04e-04 7.24e-04 4.61e-04 1.14e-03 3.00e-04  
## 1720 2.79e-02 -3.83e-03 8.27e-03 3.42e-03 2.10e-02 7.87e-03 -2.28e-02  
## 1721 2.16e-02 7.78e-04 1.40e-02 8.97e-05 2.06e-02 4.40e-03 -2.31e-02  
## 1722 1.41e-02 2.25e-02 7.25e-03 8.97e-03 4.99e-03 5.42e-03 2.33e-03  
## 1723 1.53e-02 1.02e-02 -1.51e-02 7.71e-03 6.79e-03 -1.83e-02 -2.02e-02  
## 1724 -2.54e-04 2.25e-04 3.27e-04 -2.15e-04 -1.63e-04 -1.14e-04 -2.27e-04  
## 1725 7.97e-04 -1.48e-03 -1.43e-03 -2.31e-03 -2.33e-03 3.27e-03 3.23e-03  
## 1726 -3.05e-02 -3.24e-02 -5.58e-03 -5.53e-03 -6.23e-03 -8.79e-03 3.65e-02  
## 1727 1.33e-02 -7.65e-04 -7.24e-03 -3.90e-03 -5.17e-03 -2.25e-03 -1.02e-02  
## 1728 1.49e-03 4.38e-03 -6.41e-03 1.08e-02 1.65e-02 9.82e-03 -3.98e-03  
## 1729 2.38e-04 -6.29e-03 -1.95e-03 -2.29e-03 -2.04e-03 -2.17e-03 -2.73e-03  
## 1730 -3.51e-03 -8.22e-03 -9.07e-03 -5.78e-03 -1.53e-02 -1.17e-02 2.06e-02  
## 1731 -3.82e-04 2.48e-03 2.97e-04 1.11e-03 -1.72e-04 8.17e-04 -2.81e-04  
## 1732 -4.20e-04 2.70e-02 7.60e-03 8.84e-03 8.90e-03 9.00e-03 1.15e-02  
## 1733 -6.78e-03 2.83e-02 7.92e-03 1.02e-02 4.89e-03 8.29e-03 3.77e-03  
## 1734 8.52e-04 -1.90e-03 -1.57e-03 5.83e-03 -3.16e-03 -4.62e-03 6.09e-03  
## 1735 1.41e-02 5.91e-04 -8.34e-03 -6.00e-03 -6.66e-03 -5.57e-03 -1.31e-02  
## 1736 -1.53e-03 -3.75e-03 -5.38e-04 -1.45e-03 -1.31e-03 -1.97e-03 -1.30e-03  
## 1737 2.30e-02 1.67e-02 -2.56e-02 6.68e-03 -2.57e-02 9.47e-03 1.21e-02  
## 1738 1.32e-02 8.11e-03 2.23e-02 -3.29e-03 -7.82e-03 -5.95e-03 1.87e-02  
## 1739 -1.96e-03 7.14e-04 -1.58e-07 -8.33e-05 -1.43e-04 2.79e-05 1.61e-04  
## 1740 -1.62e-02 -1.12e-02 -1.09e-02 -1.60e-02 -8.63e-03 1.42e-02 -4.99e-03  
## 1741 7.16e-04 5.75e-04 -7.58e-05 -1.05e-04 -4.71e-05 -1.33e-04 -3.75e-05  
## 1742 9.06e-05 -8.10e-04 -1.24e-04 -5.13e-04 -4.47e-05 -2.88e-04 7.54e-05  
## 1743 -1.28e-02 1.64e-03 -5.50e-03 -3.07e-03 -7.21e-03 -3.27e-03 -1.72e-02  
## 1744 1.20e-03 9.00e-04 -6.27e-05 -3.37e-04 -2.79e-04 -3.07e-04 7.47e-05  
## 1745 5.54e-03 -1.19e-02 -1.08e-02 9.43e-03 -1.10e-02 -2.25e-02 -5.37e-03  
## 1746 -1.16e-02 -1.74e-03 1.00e-02 1.01e-02 -4.10e-03 -5.76e-03 1.59e-02  
## 1747 -1.63e-02 1.05e-02 -9.74e-03 -5.57e-03 -1.09e-02 3.12e-02 1.94e-02  
## 1748 -2.99e-03 7.09e-03 3.69e-03 -4.89e-03 3.38e-03 5.28e-03 1.30e-03  
## 1749 5.31e-05 -6.52e-04 -1.56e-04 -4.46e-04 -4.22e-04 -6.29e-04 1.22e-03  
## 1750 -1.81e-03 2.06e-03 -1.53e-03 -1.94e-03 2.08e-03 2.35e-03 -2.01e-03  
## 1751 -3.70e-03 9.34e-03 -1.53e-02 8.88e-03 4.01e-03 -1.69e-02 2.58e-03  
## 1752 -5.57e-03 7.94e-03 5.68e-03 6.46e-03 -5.30e-03 -7.01e-03 -6.05e-03  
## 1753 -5.40e-03 -6.50e-04 -1.70e-03 5.33e-03 4.69e-03 -2.90e-03 5.14e-03  
## 1754 2.73e-03 1.91e-03 -2.73e-04 -6.18e-04 -4.28e-04 -5.50e-04 3.23e-04  
## 1755 -7.65e-04 -4.58e-03 -1.13e-03 -1.63e-03 -1.52e-03 -1.98e-03 -2.03e-03  
## 1756 4.30e-03 8.30e-03 3.90e-03 4.98e-03 -5.64e-03 4.07e-03 2.51e-03  
## 1757 1.18e-03 -4.26e-04 -1.66e-05 -8.85e-05 -1.35e-05 1.06e-05 -7.47e-05  
## 1758 1.03e-02 -3.14e-03 -1.82e-02 9.08e-03 1.37e-02 7.90e-03 -1.97e-02  
## 1759 -6.12e-03 2.86e-02 7.94e-03 1.03e-02 4.70e-03 9.54e-03 3.75e-03  
## 1760 -3.03e-03 -3.49e-03 -4.31e-03 1.54e-03 2.13e-03 1.76e-03 -4.71e-03  
## 1761 2.21e-03 -5.58e-03 -4.73e-03 -1.00e-02 -4.43e-03 1.17e-02 -2.30e-03  
## 1762 -1.41e-03 -2.93e-03 -2.33e-04 -4.70e-04 -6.11e-04 -4.50e-04 -3.13e-04  
## 1763 8.05e-05 -6.88e-04 -1.16e-04 -4.55e-04 -2.35e-05 -2.92e-04 7.78e-05  
## 1764 -2.57e-03 4.82e-03 2.45e-03 2.92e-03 -2.59e-03 2.83e-03 2.69e-03  
## 1765 1.07e-03 -7.40e-04 -4.49e-03 7.34e-03 -6.86e-03 5.98e-03 1.34e-02  
## 1766 -1.02e-02 2.13e-02 1.99e-02 3.62e-02 2.05e-02 -1.40e-02 1.26e-02  
## 1767 1.38e-02 9.95e-04 -6.09e-03 -5.82e-04 -9.70e-03 -3.14e-03 9.48e-03  
## 1768 1.38e-02 1.26e-03 -7.35e-03 -5.42e-03 -1.01e-02 -6.85e-03 2.08e-02  
## 1769 2.00e-03 1.45e-03 -2.05e-04 -2.07e-04 -6.34e-05 -1.53e-04 3.65e-05  
## 1770 -3.39e-03 1.46e-02 6.35e-03 -1.84e-02 3.53e-03 8.81e-03 1.82e-03  
## 1771 1.02e-03 -3.07e-03 9.25e-03 -4.94e-03 -1.12e-03 -3.72e-03 -1.38e-04  
## 1772 1.35e-03 -5.53e-04 -1.03e-05 -2.71e-04 -2.79e-05 -3.60e-04 -2.18e-04  
## 1773 1.47e-02 1.43e-02 7.58e-03 8.86e-03 4.60e-03 -1.85e-02 3.07e-03  
## 1774 -4.06e-03 1.41e-03 -3.63e-04 -5.48e-04 -3.76e-04 -9.01e-05 9.95e-05  
## 1775 -1.82e-02 -2.73e-02 -3.57e-02 -4.43e-02 1.14e-02 1.19e-02 -3.27e-02  
## 1776 7.86e-03 2.64e-02 2.35e-03 -6.42e-04 2.21e-03 -1.82e-03 5.99e-03  
## 1777 1.86e-03 1.28e-03 -8.26e-03 1.03e-02 -7.49e-03 1.20e-02 -3.19e-03  
## 1778 2.00e-02 2.02e-02 9.15e-03 8.83e-03 9.00e-03 -2.89e-02 1.16e-02  
## 1779 1.48e-02 8.61e-04 -9.83e-03 -7.65e-03 -7.14e-03 -6.51e-03 -1.52e-02  
## 1780 9.40e-04 2.74e-02 7.09e-03 8.64e-03 8.67e-03 9.27e-03 1.10e-02  
## 1781 -2.88e-03 -2.60e-03 1.86e-03 2.09e-03 1.45e-03 1.26e-03 2.11e-03  
## 1782 3.41e-02 2.80e-02 2.60e-02 -2.55e-02 3.61e-02 4.34e-02 -3.15e-02  
## 1783 6.24e-03 -7.19e-03 1.76e-02 -2.45e-02 -1.19e-02 1.50e-02 -7.13e-03  
## 1784 4.35e-04 3.54e-04 -4.84e-06 -6.77e-06 -3.07e-05 -5.08e-05 3.41e-05  
## 1785 -1.81e-03 3.10e-03 -8.97e-03 6.82e-03 5.00e-03 3.84e-03 3.27e-03  
## 1786 1.95e-02 4.17e-04 -1.10e-02 -9.45e-03 -1.43e-02 -9.29e-03 -2.41e-02  
## 1787 -2.94e-03 3.46e-03 -3.82e-03 -3.69e-03 -5.02e-03 4.41e-03 1.93e-03  
## 1788 8.17e-03 6.45e-03 -8.05e-03 -9.93e-03 4.25e-03 5.28e-03 -1.34e-02  
## 1789 -4.19e-03 1.61e-03 -3.03e-04 -5.01e-04 -3.60e-04 -5.65e-05 1.97e-04  
## 1790 -4.19e-03 -4.28e-03 2.56e-03 2.09e-03 1.84e-03 1.62e-03 3.10e-03  
## 1791 -1.46e-02 2.47e-03 -1.09e-02 -8.46e-03 2.27e-02 -7.60e-03 -2.61e-02  
## 1792 2.09e-02 1.74e-02 7.38e-03 7.51e-03 1.14e-02 -2.54e-02 -1.99e-02  
## 1793 -1.57e-04 -2.16e-04 -1.74e-05 6.65e-05 5.27e-05 1.32e-04 -2.25e-05  
## 1794 5.31e-03 -2.44e-03 -4.41e-04 -5.93e-04 -3.48e-04 -5.97e-04 -8.88e-04  
## 1795 -1.42e-02 1.08e-02 -5.48e-03 2.89e-02 -9.34e-03 -5.94e-03 1.29e-02  
## 1796 -5.27e-03 2.57e-02 6.62e-03 8.75e-03 4.29e-03 8.67e-03 2.34e-03  
## 1797 -2.18e-02 2.66e-03 1.51e-02 1.06e-02 1.07e-02 7.96e-03 1.76e-02  
## 1798 2.30e-03 -1.27e-03 -8.37e-03 -6.11e-03 -7.71e-03 1.04e-02 5.58e-03  
## 1799 4.72e-04 -3.81e-03 -5.05e-03 -4.40e-03 -4.04e-03 -3.10e-03 6.37e-03  
## 1800 -1.13e-03 -2.83e-03 -2.88e-04 -5.76e-04 -8.67e-04 -1.40e-03 -9.71e-04  
## 1801 -4.70e-03 -8.01e-03 3.83e-03 2.87e-03 5.56e-03 -9.28e-03 -4.17e-03  
## 1802 1.30e-03 -3.87e-04 -2.14e-05 1.05e-04 9.02e-05 1.30e-04 -4.05e-06  
## 1803 1.50e-02 5.06e-03 -9.41e-03 -9.46e-03 2.73e-02 -8.61e-03 -1.68e-02  
## 1804 -1.58e-02 3.61e-03 2.44e-02 -8.84e-03 -8.53e-03 -5.98e-03 -1.48e-02  
## 1805 -8.68e-03 -3.56e-03 -1.25e-02 -5.05e-03 -1.26e-02 -2.42e-03 -2.20e-02  
## 1806 -8.37e-05 3.63e-04 7.15e-05 2.02e-04 2.51e-04 3.15e-04 -5.07e-04  
## 1807 1.74e-02 -2.69e-04 1.63e-02 7.88e-03 -3.67e-02 4.17e-03 2.08e-02  
## 1808 -2.59e-02 -5.45e-03 1.35e-02 9.22e-03 -2.09e-02 1.88e-02 -7.56e-03  
## 1809 -3.81e-03 1.10e-02 4.12e-03 6.44e-03 -2.58e-02 -2.73e-02 -2.11e-02  
## 1810 -3.72e-04 -8.54e-04 -8.40e-05 4.19e-04 3.05e-04 6.88e-04 1.65e-04  
## 1811 3.02e-03 1.76e-03 -3.44e-04 -7.11e-04 -5.48e-04 -3.45e-04 1.59e-04  
## 1812 2.19e-04 -6.34e-03 -1.95e-03 -2.30e-03 -2.04e-03 -2.18e-03 -2.72e-03  
## 1813 -5.03e-04 4.42e-03 -2.71e-03 8.20e-03 1.21e-02 8.48e-03 -1.51e-03  
## 1814 2.55e-03 4.32e-03 1.22e-02 9.56e-03 8.57e-03 4.90e-03 9.49e-03  
## 1815 6.39e-05 4.08e-06 1.30e-04 -2.90e-04 1.12e-04 1.24e-04 1.64e-04  
## 1816 -6.20e-03 2.59e-02 7.65e-03 1.15e-02 5.94e-03 8.58e-03 3.61e-03  
## 1817 -9.79e-03 -4.81e-03 -1.45e-02 -8.56e-03 -1.59e-02 -4.00e-03 -2.44e-02  
## 1818 -1.19e-02 -2.99e-03 -1.82e-02 -1.01e-02 -1.48e-02 -9.20e-03 2.04e-02  
## 1819 2.24e-02 5.99e-03 2.70e-02 -1.10e-02 -1.08e-02 -9.11e-03 -1.68e-02  
## 1820 3.88e-03 2.64e-03 -4.85e-04 -1.04e-03 -6.62e-04 -5.05e-04 9.39e-05  
## 1821 1.51e-02 1.90e-02 -1.57e-02 8.01e-03 3.54e-03 5.86e-03 1.81e-03  
## 1822 1.71e-03 1.72e-03 -7.08e-03 9.97e-03 1.33e-02 7.17e-03 1.82e-02  
## 1823 -2.24e-03 -9.80e-04 9.74e-03 -1.65e-02 1.09e-02 8.70e-03 -1.19e-02  
## 1824 5.01e-03 -2.16e-03 -4.90e-04 -6.48e-04 -5.04e-04 -7.88e-04 -8.85e-04  
## 1825 2.34e-02 8.44e-04 1.29e-02 7.59e-03 9.37e-03 5.75e-03 1.92e-02  
## 1826 2.65e-05 3.43e-05 -2.24e-06 -1.66e-05 -9.81e-06 -2.42e-05 -5.50e-06  
## 1827 1.62e-02 4.23e-03 -1.55e-02 -1.63e-02 3.52e-03 -1.98e-02 1.07e-04  
## 1828 1.05e-02 -1.70e-02 -1.99e-02 -9.63e-03 -2.34e-02 -8.76e-03 2.72e-02  
## 1829 -2.47e-03 1.28e-02 5.05e-03 -1.54e-02 3.75e-03 8.40e-03 1.15e-04  
## 1830 9.80e-03 -4.45e-02 -1.09e-02 -1.49e-02 -8.15e-03 -1.07e-02 -2.77e-03  
## 1831 -6.53e-03 2.90e-02 7.75e-03 1.04e-02 5.09e-03 8.94e-03 3.86e-03  
## 1832 2.13e-02 1.29e-02 -1.37e-02 -8.21e-03 -1.93e-02 3.14e-02 1.03e-02  
## 1833 5.41e-04 3.15e-02 8.65e-03 1.05e-02 8.28e-03 9.26e-03 1.33e-02  
## 1834 4.59e-03 1.50e-03 -1.33e-02 9.44e-03 1.54e-02 6.18e-03 2.24e-02  
## 1835 1.38e-02 -3.95e-03 -1.41e-03 -9.00e-04 -1.61e-04 1.64e-03 -2.67e-04  
## 1836 -9.04e-03 2.40e-02 -6.60e-02 2.13e-02 2.35e-03 1.64e-02 -2.15e-03  
## 1837 2.35e-03 -1.05e-03 -1.65e-04 -2.58e-04 -2.42e-04 -5.63e-04 -4.80e-04  
## 1838 -6.89e-03 7.82e-03 6.95e-03 -1.33e-02 -1.05e-02 8.45e-03 -1.05e-02  
## 1839 3.55e-03 2.16e-03 -5.76e-04 -1.16e-03 -5.76e-04 -5.53e-04 2.52e-05  
## 1840 1.60e-03 -1.80e-03 1.74e-03 1.75e-03 1.92e-03 -2.38e-03 3.00e-03  
## 1841 -1.80e-03 1.23e-03 -4.55e-03 4.52e-03 -5.90e-03 4.17e-03 3.43e-03  
## 1842 -5.95e-04 -2.51e-03 -6.75e-04 -4.41e-04 -4.09e-04 -1.78e-04 -8.29e-04  
## 1843 1.85e-03 1.41e-03 -2.34e-04 -7.39e-04 -3.92e-04 -5.60e-04 -6.42e-06  
## 1844 -6.53e-04 -1.16e-03 -1.49e-04 -1.09e-04 -1.89e-04 -1.75e-04 -3.90e-04  
## 1845 1.14e-02 -4.46e-02 -1.31e-02 -1.59e-02 -7.95e-03 -1.43e-02 -5.99e-03  
## 1846 8.27e-03 6.54e-03 -8.89e-03 -1.13e-02 -1.29e-02 4.71e-03 1.77e-03  
## 1847 -4.05e-03 -1.10e-02 -1.05e-02 -1.01e-02 -1.37e-02 -1.15e-02 -1.95e-02  
## 1848 9.67e-03 -4.56e-02 -1.27e-02 -1.96e-02 -1.03e-02 -1.69e-02 -5.39e-03  
## 1849 9.14e-03 -4.70e-02 -1.30e-02 -2.02e-02 -9.74e-03 -1.70e-02 -5.31e-03  
## 1850 -6.55e-03 1.69e-03 3.16e-02 -5.12e-03 2.97e-02 -8.74e-03 -1.72e-02  
## 1851 -2.26e-04 -2.11e-04 1.16e-05 2.97e-05 1.98e-05 6.22e-05 3.55e-05  
## 1852 2.45e-02 -3.00e-02 3.58e-02 4.27e-02 -1.30e-02 -1.91e-02 -2.14e-03  
## 1853 6.46e-03 -6.62e-03 -8.35e-03 2.49e-03 5.56e-03 3.65e-03 -5.06e-03  
## 1854 2.35e-02 1.15e-02 -1.73e-02 3.48e-02 -1.23e-02 -1.16e-02 -1.66e-02  
## 1855 4.03e-02 1.83e-03 2.21e-02 -1.99e-02 -2.65e-02 -1.71e-02 -3.96e-02  
## 1856 3.04e-03 1.85e-03 -3.80e-04 -8.92e-04 -4.42e-04 -3.72e-04 -6.20e-05  
## 1857 9.06e-03 -4.64e-02 -1.30e-02 -2.01e-02 -9.63e-03 -1.66e-02 -6.11e-03  
## 1858 -1.74e-03 -4.86e-03 -1.08e-02 6.81e-03 -1.27e-02 -1.68e-02 -1.46e-02  
## 1859 1.39e-02 -4.84e-03 -1.94e-03 -1.50e-03 -8.76e-04 -1.07e-03 -1.57e-03  
## 1860 -9.12e-03 2.28e-02 7.91e-03 1.07e-02 -1.46e-02 1.07e-02 1.25e-02  
## 1861 5.73e-03 3.44e-03 -1.52e-02 1.01e-02 2.15e-02 1.28e-02 -8.55e-03  
## 1862 1.04e-03 -2.97e-03 8.48e-03 -4.47e-03 8.77e-03 -4.58e-03 -1.15e-03  
## 1863 1.41e-02 7.04e-03 2.63e-02 -6.25e-03 -9.98e-03 -7.68e-03 2.30e-02  
## 1864 -5.34e-03 2.58e-02 6.68e-03 8.81e-03 4.34e-03 8.73e-03 2.42e-03  
## 1865 -4.06e-03 1.42e-03 -2.43e-04 -4.49e-04 -2.76e-04 -7.98e-06 1.91e-04  
## 1866 -5.79e-03 2.91e-02 7.66e-03 9.97e-03 4.74e-03 9.49e-03 4.07e-03  
## 1867 5.58e-03 -7.55e-03 -9.69e-03 -1.61e-02 1.11e-02 7.95e-03 1.62e-02  
## 1868 8.91e-04 8.90e-04 -7.77e-05 -4.31e-04 -2.65e-04 -4.50e-04 -1.02e-05  
## 1869 4.80e-03 -5.08e-03 2.37e-03 2.51e-03 3.19e-03 -7.05e-03 4.94e-03  
## 1870 2.89e-03 1.94e-03 -2.66e-03 -2.13e-03 3.83e-03 -1.60e-03 -2.55e-03  
## 1871 3.11e-05 -2.21e-04 -4.62e-05 -1.55e-04 -1.06e-05 -9.88e-05 1.63e-05  
## 1872 4.92e-03 7.56e-03 1.85e-02 1.19e-02 2.24e-02 1.46e-02 -5.52e-03  
## 1873 -5.17e-03 -4.58e-03 3.56e-03 3.30e-03 2.35e-03 1.97e-03 4.65e-03  
## 1874 -4.39e-04 -8.76e-03 -2.37e-03 -4.09e-03 -3.04e-03 -3.14e-03 -3.13e-03  
## 1875 1.41e-02 6.18e-04 -8.35e-03 -6.00e-03 -6.67e-03 -5.57e-03 -1.31e-02  
## 1876 -1.14e-02 1.60e-03 -3.80e-03 -1.26e-03 -5.77e-03 -2.56e-03 -1.43e-02  
## 1877 1.41e-03 -6.04e-03 -1.61e-02 -1.91e-02 8.18e-03 8.69e-03 8.87e-03  
## 1878 -6.29e-03 1.18e-02 7.01e-03 -1.38e-02 6.19e-03 7.73e-03 7.40e-03  
## 1879 -1.52e-02 3.29e-02 2.36e-02 3.77e-02 -2.19e-02 4.20e-02 3.12e-02  
## 1880 -2.38e-03 4.31e-03 -5.04e-03 -4.22e-03 2.73e-03 4.79e-03 8.93e-04  
## 1881 -3.30e-03 8.90e-04 -9.27e-03 -9.03e-03 4.72e-03 -9.61e-03 5.05e-03  
## 1882 6.04e-03 -5.32e-03 -7.71e-03 2.77e-03 5.33e-03 3.44e-03 -5.09e-03  
## 1883 -1.75e-02 -3.89e-03 -1.30e-02 -1.09e-02 -1.00e-02 -6.62e-03 -1.47e-02  
## 1884 -4.02e-03 9.91e-03 -8.74e-03 7.57e-03 -9.66e-03 7.69e-03 3.34e-03  
## 1885 2.82e-03 4.47e-03 -2.04e-02 9.82e-03 7.39e-03 8.80e-03 7.02e-03  
## 1886 1.94e-03 2.82e-02 5.88e-03 1.02e-02 9.84e-03 1.04e-02 7.54e-03  
## 1887 9.63e-03 -4.49e-02 -1.13e-02 -1.55e-02 -7.80e-03 -1.07e-02 -3.25e-03  
## 1888 4.48e-03 1.60e-03 -3.60e-02 3.17e-03 1.62e-02 9.68e-03 -2.80e-02  
## 1889 2.06e-02 9.80e-03 -2.06e-02 -2.17e-02 5.18e-03 8.77e-03 7.00e-03  
## 1890 -3.37e-03 9.03e-03 1.10e-02 7.14e-03 1.36e-02 8.16e-03 -1.55e-02  
## 1891 -2.47e-03 -2.81e-03 1.74e-03 1.96e-03 -5.05e-03 1.34e-03 2.43e-03  
## 1892 4.40e-03 3.63e-04 -3.69e-03 -3.46e-03 -4.69e-03 -4.22e-03 8.12e-04  
## 1893 2.13e-02 -4.31e-02 3.72e-02 -1.74e-02 -1.04e-02 -1.04e-02 -3.20e-03  
## 1894 1.45e-02 -3.01e-04 -6.70e-03 -4.49e-03 -9.44e-03 -3.60e-03 -1.76e-02  
## 1895 -2.14e-02 -1.45e-02 -2.87e-02 7.68e-03 -2.80e-02 1.11e-02 3.01e-02  
## 1896 -3.50e-04 -1.29e-03 -1.90e-04 6.14e-04 4.67e-04 1.12e-03 2.77e-04  
## 1897 -6.79e-04 -3.00e-03 -5.98e-04 -2.47e-04 -2.96e-04 1.27e-04 -8.20e-04  
## 1898 -3.49e-03 -3.24e-03 2.34e-03 2.63e-03 1.89e-03 1.68e-03 2.78e-03  
## 1899 -2.64e-02 -7.48e-03 1.01e-02 1.77e-03 2.06e-02 1.10e-02 -1.98e-02  
## 1900 -1.21e-02 1.61e-02 2.12e-02 -2.48e-02 -3.12e-02 4.46e-02 -4.41e-02  
## 1901 8.69e-03 -3.68e-03 -7.94e-04 -1.75e-03 -1.43e-03 -1.63e-03 -1.29e-03  
## 1902 -2.07e-04 -3.65e-04 -5.53e-03 6.32e-03 4.80e-03 -6.41e-03 3.52e-03  
## 1903 -2.56e-03 -5.04e-04 -2.25e-02 -2.27e-02 8.36e-03 -1.90e-02 -2.04e-02  
## 1904 2.65e-03 1.90e-03 -1.78e-04 -4.83e-04 -4.00e-04 -4.52e-04 2.91e-04  
## 1905 -5.36e-04 -2.95e-03 -5.14e-04 1.03e-05 -1.59e-04 1.28e-04 -3.54e-04  
## 1906 3.55e-03 4.66e-03 -1.98e-02 1.13e-02 7.61e-03 9.33e-03 7.78e-03  
## 1907 -4.46e-04 2.56e-03 4.63e-05 8.22e-04 5.14e-04 1.12e-03 1.22e-03  
## 1908 -7.82e-04 -1.25e-03 -8.80e-05 -2.57e-04 -2.24e-04 -3.00e-04 -2.44e-04  
## 1909 1.79e-03 1.08e-03 -4.41e-03 9.82e-03 -6.94e-03 1.02e-02 -5.99e-03  
## 1910 2.64e-02 1.82e-02 6.07e-03 9.86e-03 7.99e-03 -2.59e-02 -2.94e-02  
## 1911 -5.33e-03 1.17e-02 6.87e-03 8.40e-03 4.75e-03 -1.49e-02 3.34e-03  
## 1912 -1.37e-02 7.72e-03 2.32e-02 -1.85e-02 3.46e-02 -1.44e-02 -2.60e-02  
## 1913 -2.69e-03 -3.18e-03 2.20e-03 2.34e-03 1.48e-03 2.08e-03 3.07e-03  
## 1914 -2.30e-03 3.32e-03 3.89e-03 -5.80e-03 2.96e-03 -7.19e-03 9.75e-04  
## 1915 7.48e-03 -3.87e-02 -1.13e-02 -1.85e-02 4.27e-02 -1.78e-02 -8.96e-03  
## 1916 -1.73e-03 -6.42e-03 -1.46e-03 -2.90e-03 -2.07e-03 -3.04e-03 -2.44e-03  
## 1917 -8.90e-04 -1.64e-03 7.47e-04 -1.87e-03 5.69e-04 6.85e-04 6.12e-04  
## 1918 1.72e-02 2.49e-02 8.04e-03 9.04e-03 7.55e-03 7.39e-03 -2.37e-02  
## 1919 6.77e-04 7.88e-04 -1.26e-05 -3.07e-04 -2.32e-04 -3.81e-04 -9.76e-06  
## 1920 1.41e-02 3.95e-03 1.68e-02 9.73e-03 1.64e-02 5.36e-03 -2.67e-02  
## 1921 1.35e-03 2.56e-03 2.05e-03 2.37e-03 -1.26e-03 -1.17e-03 -1.66e-03  
## 1922 -9.13e-03 -5.02e-04 -2.60e-02 -1.38e-02 2.04e-02 -1.54e-02 7.39e-03  
## 1923 -1.06e-02 1.67e-02 -3.15e-02 -2.02e-02 1.82e-02 3.65e-02 4.98e-03  
## 1924 1.01e-02 2.95e-02 4.22e-03 1.13e-02 1.22e-02 1.61e-02 9.83e-03  
## 1925 -2.35e-02 -3.85e-03 1.15e-02 7.89e-03 1.54e-02 8.99e-03 3.54e-02  
## 1926 -3.21e-04 -8.69e-03 -2.42e-03 -4.16e-03 -3.18e-03 -3.25e-03 -3.09e-03  
## 1927 3.32e-03 -7.50e-03 -6.71e-03 1.10e-02 -5.04e-03 -1.10e-02 -9.87e-04  
## 1928 8.61e-05 -6.69e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.22e-03 -2.65e-03  
## 1929 -1.15e-03 -4.00e-03 -9.20e-04 -1.37e-03 -9.77e-04 -5.27e-04 -9.54e-04  
## 1930 1.50e-02 2.02e-02 2.84e-02 3.35e-02 -7.00e-03 -9.67e-03 -1.19e-02  
## 1931 -8.93e-04 -1.30e-03 -1.22e-04 -3.73e-04 -3.11e-04 -3.48e-04 -4.19e-04  
## 1932 7.16e-04 -4.89e-04 7.49e-04 6.67e-04 -7.15e-04 8.51e-04 -3.52e-04  
## 1933 -4.11e-04 -8.14e-04 -3.73e-05 4.90e-04 2.96e-04 7.14e-04 1.68e-04  
## 1934 -1.04e-04 -6.86e-03 -1.76e-03 -2.11e-03 -2.08e-03 -2.17e-03 -2.60e-03  
## 1935 -1.96e-05 -8.28e-03 -1.86e-03 -3.34e-03 -3.13e-03 -2.80e-03 -2.20e-03  
## 1936 -3.71e-03 -1.88e-03 2.70e-03 2.33e-03 3.92e-03 3.22e-03 -2.18e-03  
## 1937 -5.64e-03 2.77e-02 5.94e-03 9.78e-03 8.60e-03 1.04e-02 1.10e-02  
## 1938 7.09e-04 7.42e-04 3.71e-05 -1.69e-04 -1.60e-04 -3.09e-04 1.12e-04  
## 1939 2.79e-02 3.14e-02 6.72e-03 8.49e-03 3.79e-03 7.99e-03 2.50e-03  
## 1940 -5.91e-03 -1.82e-02 -1.90e-02 -2.21e-02 -1.53e-02 -1.74e-02 -1.40e-02  
## 1941 3.89e-03 2.40e-03 -7.29e-04 -1.31e-03 -7.49e-04 -6.92e-04 -2.12e-05  
## 1942 4.09e-03 1.63e-03 1.69e-02 1.01e-02 -1.31e-02 8.63e-03 -1.04e-02  
## 1943 6.53e-04 -1.41e-03 -1.06e-03 4.56e-03 -2.47e-03 -3.42e-03 4.68e-03  
## 1944 1.42e-02 1.33e-03 -7.15e-03 -6.52e-03 -1.05e-02 -6.87e-03 -2.03e-02  
## 1945 1.25e-04 -2.83e-04 1.48e-03 -4.38e-04 1.72e-03 -4.16e-04 -4.15e-05  
## 1946 -3.43e-03 -2.83e-03 1.59e-02 -2.37e-02 -3.24e-02 -1.83e-02 2.75e-02  
## 1947 -5.47e-03 1.75e-02 6.04e-03 8.96e-03 -1.82e-02 7.53e-03 3.83e-03  
## 1948 1.67e-02 -1.73e-02 1.40e-02 1.09e-02 -2.45e-02 -3.40e-02 3.15e-02  
## 1949 1.45e-02 7.21e-03 2.53e-02 -7.70e-03 -6.57e-03 -6.89e-03 -1.45e-02  
## 1950 -1.40e-02 3.27e-04 -6.03e-03 -3.45e-03 -4.60e-03 -2.89e-03 -1.05e-02  
## 1951 5.25e-03 4.32e-03 1.93e-02 1.04e-02 1.97e-02 1.01e-02 -7.95e-03  
## 1952 1.60e-04 -6.25e-04 -4.34e-04 -1.54e-03 -9.08e-04 3.85e-03 -1.20e-03  
## 1953 6.61e-03 8.31e-03 4.74e-03 -6.98e-03 2.84e-03 3.71e-03 4.41e-04  
## 1954 1.54e-02 -9.97e-03 -2.38e-02 8.37e-03 -2.91e-02 7.71e-03 1.68e-02  
## 1955 3.86e-03 -2.88e-03 -1.36e-02 1.10e-02 7.07e-03 -1.63e-02 5.69e-03  
## 1956 9.12e-03 -1.07e-02 -1.15e-02 1.10e-02 -1.47e-02 -1.87e-02 1.23e-02  
## 1957 6.48e-03 6.42e-03 -6.36e-03 -6.50e-03 3.23e-03 5.67e-03 1.26e-03  
## 1958 -1.96e-02 -1.44e-02 1.30e-02 -2.91e-02 -1.66e-02 1.90e-02 -8.40e-03  
## 1959 -1.95e-02 -7.69e-05 1.25e-02 1.15e-02 1.14e-02 8.83e-03 1.59e-02  
## 1960 -1.83e-04 2.36e-04 -1.68e-04 -1.80e-04 1.33e-04 2.07e-04 6.55e-05  
## 1961 1.65e-02 -3.50e-02 -1.99e-02 4.32e-02 -1.14e-02 -2.21e-02 -2.38e-03  
## 1962 1.69e-02 2.10e-02 -1.87e-02 8.02e-03 4.24e-03 4.45e-03 2.52e-04  
## 1963 -3.95e-02 -1.89e-02 3.24e-02 3.63e-02 3.93e-02 3.67e-02 -4.47e-02  
## 1964 -1.90e-02 -1.16e-03 -8.59e-03 1.11e-02 -7.66e-03 1.44e-02 -1.95e-03  
## 1965 -1.03e-03 7.46e-04 3.64e-03 -3.21e-03 -1.90e-03 5.42e-03 -2.25e-03  
## 1966 1.49e-02 9.01e-04 -8.16e-03 -4.41e-03 -9.19e-03 -5.47e-03 1.70e-02  
## 1967 -1.17e-03 -3.68e-03 -7.12e-04 -1.08e-03 -8.33e-04 -3.55e-04 -1.03e-03  
## 1968 1.47e-02 2.84e-03 1.53e-02 1.23e-02 1.66e-02 8.46e-03 2.92e-02  
## 1969 5.26e-03 -4.36e-03 -6.55e-03 2.41e-03 1.76e-03 1.53e-03 2.31e-03  
## 1970 -1.39e-02 -1.16e-03 -9.06e-03 -5.63e-03 -7.00e-03 -3.37e-03 -1.30e-02  
## 1971 -4.64e-04 -8.89e-04 -1.61e-04 2.28e-04 2.23e-04 5.97e-04 -1.50e-05  
## 1972 -7.66e-03 1.23e-03 -1.35e-03 1.81e-03 -4.15e-03 -1.47e-04 7.08e-03  
## 1973 1.34e-02 -2.91e-03 -2.57e-02 6.26e-03 1.52e-02 5.29e-03 -2.76e-02  
## 1974 1.45e-03 -2.04e-03 1.27e-03 -2.52e-03 1.21e-03 9.05e-04 1.84e-03  
## 1975 1.02e-04 1.00e-04 -6.87e-06 -1.63e-05 -1.03e-05 -3.11e-05 -5.56e-06  
## 1976 2.51e-02 -1.77e-02 -3.94e-02 4.18e-03 -3.76e-02 8.75e-03 3.38e-02  
## 1977 -1.01e-02 1.29e-02 -3.60e-02 -2.25e-02 1.96e-02 4.05e-02 8.83e-03  
## 1978 -4.44e-04 -4.54e-03 -9.00e-04 -1.21e-03 -1.48e-03 -1.63e-03 -1.60e-03  
## 1979 1.23e-02 7.15e-03 6.26e-03 -1.11e-02 1.02e-02 -9.87e-03 -1.06e-02  
## 1980 -1.38e-02 6.57e-03 2.32e-02 -5.81e-03 -1.03e-02 -5.43e-03 -2.16e-02  
## 1981 -5.81e-03 -1.06e-02 3.42e-02 -2.39e-02 -1.52e-02 -1.71e-02 -1.26e-02  
## 1982 3.12e-04 9.99e-06 -8.09e-04 4.15e-03 4.40e-03 -2.01e-03 5.33e-03  
## 1983 2.54e-02 1.28e-02 2.61e-02 -1.17e-02 2.93e-02 -1.32e-02 2.30e-02  
## 1984 -7.25e-03 1.66e-02 1.86e-02 3.84e-02 1.72e-02 -3.00e-02 1.14e-02  
## 1985 -3.97e-04 -1.25e-03 5.95e-03 -4.72e-03 6.99e-03 -3.98e-03 -6.25e-03  
## 1986 -1.01e-02 -1.39e-03 -7.56e-03 -1.66e-03 -7.07e-03 -1.60e-03 1.69e-02  
## 1987 6.84e-03 9.83e-03 -7.29e-03 6.20e-03 -6.04e-03 7.36e-03 -6.21e-03  
## 1988 -2.14e-02 -7.14e-03 -2.86e-02 7.34e-03 1.28e-02 9.45e-03 -2.67e-02  
## 1989 9.86e-03 -4.38e-02 -1.33e-02 -1.78e-02 -7.83e-03 -1.45e-02 -7.70e-03  
## 1990 -7.21e-04 -2.33e-03 -5.11e-04 -3.38e-04 -3.10e-04 -1.48e-04 -6.89e-04  
## 1991 1.33e-02 -7.01e-04 -7.24e-03 -3.91e-03 -5.19e-03 -2.26e-03 -1.03e-02  
## 1992 6.68e-03 -7.00e-03 -8.90e-03 2.56e-03 4.11e-03 2.97e-03 -9.31e-03  
## 1993 4.95e-04 -5.70e-05 9.36e-03 8.10e-03 -8.58e-04 -3.52e-03 1.36e-03  
## 1994 -4.68e-03 -9.95e-03 -9.04e-03 -9.25e-03 -1.78e-02 -1.29e-02 2.21e-02  
## 1995 -1.41e-02 -2.85e-03 -1.37e-02 -8.39e-03 -9.35e-03 -5.60e-03 -1.58e-02  
## 1996 -2.19e-02 -3.98e-03 1.30e-02 1.01e-02 -3.33e-02 6.85e-03 1.87e-02  
## 1997 -2.62e-04 -6.18e-03 -1.58e-03 -1.95e-03 -1.97e-03 -2.12e-03 -2.52e-03  
## 1998 -2.07e-04 -1.53e-04 1.18e-03 -7.87e-04 1.42e-03 -7.12e-04 -1.28e-03  
## 1999 5.06e-02 -1.45e-02 -4.22e-02 -3.47e-02 1.04e-02 -4.57e-02 -2.66e-03  
## 2000 -1.38e-02 2.85e-03 -1.18e-02 -5.10e-03 2.38e-02 -7.26e-03 1.77e-02  
## 2001 -9.12e-03 -7.11e-03 1.92e-02 -2.79e-02 -3.91e-02 -2.83e-02 7.76e-03  
## 2002 -3.96e-02 -4.68e-02 -9.90e-03 -1.56e-02 -6.93e-03 -1.22e-02 -1.98e-03  
## 2003 1.26e-02 2.06e-03 -5.74e-03 -3.22e-03 -8.16e-03 -5.05e-03 -1.82e-02  
## 2004 -1.87e-02 1.48e-02 -9.59e-03 -8.56e-03 2.69e-02 3.03e-02 -1.83e-02  
## 2005 -5.07e-03 -4.33e-03 3.23e-03 3.24e-03 4.11e-03 2.84e-03 7.22e-03  
## 2006 -1.42e-02 7.88e-04 -7.41e-03 -4.26e-03 -5.74e-03 -3.54e-03 -1.14e-02  
## 2007 3.00e-03 1.42e-03 2.97e-03 -2.98e-03 -2.49e-03 -3.17e-03 -2.86e-03  
## 2008 -1.50e-02 2.47e-02 2.36e-02 4.00e-02 3.09e-02 -1.93e-02 2.97e-02  
## 2009 -4.11e-04 -9.11e-04 -5.58e-05 1.52e-05 -1.11e-04 -2.65e-05 -2.15e-04  
## 2010 -2.78e-03 3.91e-03 -1.03e-02 7.61e-03 -1.15e-02 -1.07e-02 3.26e-03  
## 2011 1.41e-02 2.26e-02 7.97e-03 1.00e-02 4.77e-03 5.93e-03 3.23e-03  
## 2012 -1.33e-02 3.10e-05 -7.60e-03 -5.77e-03 -1.01e-02 -5.27e-03 -1.94e-02  
## 2013 2.45e-04 2.71e-04 2.01e-05 -6.61e-05 -8.26e-05 -1.08e-04 2.12e-05  
## 2014 8.40e-03 -4.22e-02 -1.14e-02 -1.50e-02 -6.63e-03 -1.38e-02 -5.79e-03  
## 2015 -4.05e-03 -5.40e-03 1.50e-02 -3.79e-02 1.19e-02 -4.04e-02 4.59e-03  
## 2016 -4.84e-03 5.84e-03 -5.22e-03 -6.10e-03 5.79e-03 6.39e-03 -5.79e-03  
## 2017 2.32e-03 1.36e-03 4.04e-04 6.46e-04 7.77e-05 4.21e-04 -1.23e-04  
## 2018 -2.36e-02 -8.42e-03 -3.00e-02 8.98e-03 1.50e-02 1.02e-02 2.96e-02  
## 2019 -1.16e-02 3.48e-03 1.94e-02 -2.52e-03 -4.08e-03 -1.49e-04 -8.58e-03  
## 2020 -2.19e-02 -4.15e-03 1.19e-02 1.09e-02 -2.05e-02 1.98e-02 -8.38e-03  
## 2021 -3.07e-05 7.02e-04 -7.48e-06 3.46e-04 -4.34e-05 2.14e-04 -1.79e-04  
## 2022 1.55e-04 -8.45e-04 -1.90e-03 7.35e-03 1.05e-02 -6.42e-03 -1.54e-03  
## 2023 -1.05e-03 -2.33e-03 -4.25e-04 -1.69e-04 -2.12e-04 -2.75e-04 -6.10e-04  
## 2024 -5.24e-04 -1.10e-03 -1.54e-04 4.25e-04 3.28e-04 9.34e-04 2.53e-05  
## 2025 6.20e-02 1.24e-02 1.56e-02 3.20e-02 -5.02e-02 -4.33e-02 -5.84e-02  
## 2026 1.98e-02 8.63e-03 -1.83e-02 -1.68e-02 3.14e-03 8.20e-03 -1.53e-04  
## 2027 3.10e-03 1.08e-02 1.07e-02 1.29e-02 8.83e-03 9.42e-03 7.98e-03  
## 2028 1.87e-02 1.24e-04 -9.82e-03 -6.60e-03 -1.62e-02 -8.55e-03 1.26e-02  
## 2029 1.17e-05 2.77e-02 8.24e-03 1.37e-02 1.07e-02 1.07e-02 9.82e-03  
## 2030 -1.44e-03 1.62e-03 -2.07e-03 -1.96e-03 -2.69e-03 2.36e-03 9.47e-04  
## 2031 -4.16e-03 5.33e-03 -6.71e-03 -7.54e-03 3.66e-03 5.10e-03 3.90e-03  
## 2032 2.48e-02 2.81e-03 1.09e-02 7.25e-03 1.05e-02 8.10e-04 1.69e-02  
## 2033 -2.51e-02 1.81e-03 1.39e-02 7.60e-03 9.83e-03 4.27e-03 2.03e-02  
## 2034 2.32e-02 -5.24e-04 -1.48e-02 -8.26e-03 -1.79e-02 -1.01e-02 9.47e-03  
## 2035 -1.61e-02 4.00e-03 2.48e-02 -8.49e-03 -8.92e-03 -6.07e-03 -1.50e-02  
## 2036 -4.40e-03 -4.16e-03 3.22e-03 2.92e-03 1.81e-03 1.93e-03 4.10e-03  
## 2037 -3.73e-04 -1.47e-03 -3.54e-04 4.06e-04 4.29e-04 1.23e-03 2.54e-05  
## 2038 1.22e-02 6.75e-03 -1.19e-02 7.39e-03 -1.43e-02 -1.52e-02 2.03e-03  
## 2039 -2.27e-02 3.49e-03 1.41e-02 1.04e-02 1.14e-02 5.17e-03 1.55e-02  
## 2040 -3.55e-04 -3.36e-03 -9.27e-04 -4.97e-04 -3.98e-04 1.11e-04 -9.31e-04  
## 2041 4.06e-04 -1.22e-03 -1.06e-03 5.93e-03 -4.83e-04 -2.12e-03 6.52e-04  
## 2042 4.40e-03 1.08e-02 1.07e-02 1.29e-02 8.52e-03 1.04e-02 7.83e-03  
## 2043 -5.07e-03 1.00e-02 4.43e-03 -3.44e-02 -2.73e-02 1.46e-02 -2.43e-02  
## 2044 1.84e-02 5.39e-03 -9.16e-03 -1.90e-03 1.75e-02 -5.88e-03 9.00e-03  
## 2045 1.29e-03 -6.53e-04 -4.44e-03 8.28e-03 -9.14e-03 5.45e-03 9.70e-03  
## 2046 1.06e-03 1.77e-03 1.67e-03 1.54e-03 2.08e-03 1.76e-03 -2.52e-03  
## 2047 2.77e-03 1.59e-03 -4.37e-04 -9.64e-04 -4.05e-04 -4.38e-04 -8.54e-05  
## 2048 7.69e-03 -8.52e-03 1.68e-02 1.01e-02 -1.22e-02 -2.18e-02 -4.92e-03  
## 2049 -1.33e-02 7.42e-03 2.46e-02 -1.90e-02 3.52e-02 -1.36e-02 -2.68e-02  
## 2050 -3.37e-02 -3.95e-02 -8.87e-03 -1.12e-02 -4.43e-03 -9.91e-03 -3.38e-03  
## 2051 7.75e-03 -1.59e-02 1.36e-02 -1.81e-02 -1.01e-02 -1.64e-02 -6.07e-03  
## 2052 4.66e-03 2.52e-04 -9.21e-03 1.02e-02 9.54e-03 6.24e-03 1.02e-02  
## 2053 -3.75e-02 -1.26e-02 -1.32e-02 4.20e-02 -1.93e-02 3.92e-02 3.62e-02  
## 2054 -5.90e-03 -4.85e-03 4.25e-03 3.89e-03 2.83e-03 2.36e-03 5.60e-03  
## 2055 1.11e-02 -6.35e-03 -1.77e-02 8.57e-03 -2.12e-02 8.54e-03 -1.67e-02  
## 2056 -4.84e-03 -4.62e-03 3.09e-03 2.62e-03 2.06e-03 1.91e-03 3.74e-03  
## 2057 1.00e-02 -4.43e-02 -1.46e-02 -2.33e-02 4.67e-02 -1.95e-02 -1.04e-02  
## 2058 4.66e-04 -1.75e-04 1.43e-05 -2.11e-05 -5.01e-06 -6.74e-07 -2.61e-05  
## 2059 -1.83e-03 1.59e-03 2.18e-03 -1.84e-03 2.54e-03 -1.65e-03 -1.85e-03  
## 2060 -3.26e-04 -6.53e-04 -4.71e-05 2.04e-05 -4.61e-05 -4.72e-05 -1.64e-04  
## 2061 1.12e-02 4.72e-03 1.71e-02 1.13e-02 1.59e-02 9.24e-03 -2.09e-02  
## 2062 4.31e-04 -1.46e-04 1.05e-05 -7.05e-06 -6.60e-06 -1.43e-05 6.44e-06  
## 2063 8.14e-04 1.19e-03 -6.12e-03 9.02e-03 -5.68e-03 1.03e-02 -3.02e-03  
## 2064 5.72e-03 -1.12e-02 -6.92e-03 -1.08e-02 1.02e-02 -1.27e-02 -1.03e-02  
## 2065 1.08e-02 1.23e-02 -4.41e-03 2.74e-02 -8.97e-03 -6.74e-03 1.17e-02  
## 2066 -3.77e-02 -3.41e-02 3.73e-02 4.39e-02 -1.39e-02 -2.30e-02 -2.42e-03  
## 2067 2.38e-04 1.08e-04 -3.69e-04 2.48e-03 2.52e-03 -1.01e-03 -7.24e-04  
## 2068 1.06e-04 2.08e-04 1.50e-05 7.75e-06 2.44e-05 1.85e-05 5.96e-05  
## 2069 -6.07e-04 -5.34e-03 -1.38e-03 -1.87e-03 -1.70e-03 -2.13e-03 -2.25e-03  
## 2070 3.69e-02 3.60e-02 2.08e-02 3.72e-02 -3.23e-02 3.72e-02 1.59e-02  
## 2071 4.00e-03 2.36e-03 2.11e-02 8.59e-03 -1.49e-02 9.50e-03 -7.09e-03  
## 2072 -4.28e-03 1.29e-02 5.58e-03 9.96e-03 8.32e-03 -1.08e-02 8.85e-03  
## 2073 1.58e-02 -3.14e-04 -1.02e-02 -9.99e-03 -9.10e-03 -7.60e-03 -1.46e-02  
## 2074 -3.87e-03 8.56e-03 -1.07e-02 -9.46e-03 4.39e-03 8.85e-03 2.88e-03  
## 2075 7.21e-04 -3.01e-03 -2.32e-03 -8.07e-03 1.06e-02 7.26e-03 -3.01e-03  
## 2076 6.01e-04 1.26e-03 -6.81e-04 -9.35e-04 -5.78e-04 1.40e-03 -8.38e-04  
## 2077 -2.04e-02 -2.77e-03 1.50e-02 1.17e-02 -2.56e-02 8.96e-03 1.94e-02  
## 2078 1.18e-02 -5.58e-03 -1.51e-03 -2.31e-03 -2.42e-03 -3.14e-03 -2.47e-03  
## 2079 3.20e-04 2.68e-02 7.45e-03 1.26e-02 1.08e-02 1.02e-02 9.64e-03  
## 2080 1.71e-02 7.19e-04 -1.16e-02 -1.17e-02 -1.01e-02 -8.96e-03 -1.61e-02  
## 2081 -8.23e-03 -3.05e-03 -1.11e-02 -2.75e-03 -1.37e-02 -3.14e-03 1.14e-02  
## 2082 2.24e-02 -1.13e-03 -1.53e-02 -1.20e-02 -1.63e-02 -1.04e-02 2.19e-02  
## 2083 -9.95e-03 9.74e-03 3.54e-02 3.88e-02 -1.11e-02 -1.88e-02 -6.37e-03  
## 2084 1.00e-02 1.64e-02 6.68e-03 8.99e-03 -1.19e-02 8.20e-03 4.67e-03  
## 2085 -1.70e-04 -9.69e-05 -1.26e-03 1.99e-03 -1.25e-03 -1.09e-03 1.32e-03  
## 2086 -1.04e-03 7.49e-04 7.39e-03 7.47e-03 5.11e-03 -1.33e-02 4.71e-03  
## 2087 1.26e-03 1.15e-03 -1.77e-04 -5.50e-04 -2.57e-04 -5.87e-04 -1.98e-05  
## 2088 -5.57e-03 -5.33e-03 4.12e-03 2.86e-03 3.76e-03 3.14e-03 -9.11e-03  
## 2089 1.35e-02 -6.55e-03 -1.91e-03 -2.61e-03 -2.53e-03 -3.07e-03 -2.89e-03  
## 2090 -8.20e-04 -4.79e-03 -1.07e-03 -1.53e-03 -1.61e-03 -1.98e-03 -2.11e-03  
## 2091 1.20e-02 1.94e-03 -5.95e-03 -2.51e-03 -7.34e-03 -4.96e-03 1.71e-02  
## 2092 -2.17e-04 2.81e-02 7.82e-03 9.10e-03 8.89e-03 9.02e-03 1.23e-02  
## 2093 -2.33e-02 -1.21e-02 9.62e-03 1.89e-03 -3.36e-02 1.19e-02 -1.60e-02  
## 2094 2.73e-02 -1.82e-02 8.64e-03 -4.55e-02 1.40e-02 1.00e-02 2.73e-02  
## 2095 8.50e-03 -4.25e-03 1.50e-02 1.16e-02 1.10e-02 -2.60e-02 1.43e-02  
## 2096 3.53e-04 3.39e-03 1.15e-02 8.63e-03 -2.58e-03 9.10e-03 -9.38e-04  
## 2097 -1.83e-02 2.95e-02 -2.91e-02 3.26e-02 2.38e-02 3.17e-02 -4.73e-02  
## 2098 1.82e-02 -4.34e-03 1.45e-02 9.56e-03 -3.30e-02 8.09e-03 2.10e-02  
## 2099 -2.63e-02 2.69e-03 1.49e-02 8.33e-03 1.15e-02 3.62e-03 1.87e-02  
## 2100 -1.15e-02 9.08e-04 -5.59e-03 -2.67e-03 -7.56e-03 -2.95e-03 -1.66e-02  
## 2101 -1.61e-02 -1.09e-03 -8.27e-03 -7.34e-03 -7.08e-03 -4.82e-03 -1.21e-02  
## 2102 -9.58e-04 1.52e-03 1.01e-03 -8.95e-04 1.03e-03 1.21e-03 9.11e-04  
## 2103 1.28e-02 -8.28e-03 -2.27e-02 8.13e-03 -2.36e-02 8.42e-03 2.71e-02  
## 2104 -5.18e-03 1.18e-02 5.21e-03 5.98e-03 3.32e-03 4.03e-03 1.45e-03  
## 2105 2.65e-03 -8.59e-04 -9.30e-05 9.11e-05 1.95e-04 3.27e-04 -1.13e-04  
## 2106 -2.05e-04 -6.34e-03 -1.63e-03 -1.97e-03 -1.91e-03 -2.03e-03 -2.61e-03  
## 2107 -1.21e-04 -1.37e-04 1.22e-05 7.61e-05 5.51e-05 9.28e-05 3.50e-05  
## 2108 5.53e-03 3.92e-03 3.52e-03 -3.72e-03 3.02e-03 -4.59e-03 1.40e-03  
## 2109 5.59e-03 -1.61e-03 -1.07e-02 1.16e-02 -1.13e-02 1.22e-02 2.31e-02  
## 2110 -2.36e-03 1.31e-03 -3.88e-03 -4.02e-03 2.16e-03 -4.94e-03 1.03e-03  
## 2111 7.29e-05 -1.05e-03 -2.05e-05 -6.05e-04 4.99e-05 -3.07e-04 2.77e-04  
## 2112 -3.92e-02 -3.66e-02 -8.19e-03 -1.41e-02 4.23e-02 -1.33e-02 -5.75e-03  
## 2113 1.74e-03 2.86e-03 2.59e-03 2.42e-03 1.38e-03 1.81e-03 2.19e-03  
## 2114 -2.44e-02 1.44e-03 1.59e-02 1.13e-02 1.59e-02 9.66e-03 3.01e-02  
## 2115 -7.05e-04 -1.11e-03 -9.32e-05 -2.45e-04 -2.19e-04 -2.94e-04 -2.37e-04  
## 2116 1.40e-03 9.19e-04 -2.81e-04 -6.35e-04 -3.49e-04 -4.61e-04 -1.97e-04  
## 2117 5.11e-05 -6.77e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.23e-03 -2.63e-03  
## 2118 2.54e-02 2.19e-02 7.55e-03 1.07e-02 1.46e-02 -2.24e-02 -1.85e-02  
## 2119 1.29e-02 -2.68e-03 -2.11e-02 9.90e-03 1.02e-02 6.72e-03 1.56e-02  
## 2120 -4.42e-03 -1.46e-02 -1.44e-02 -1.42e-02 -1.20e-02 -1.22e-02 -1.11e-02  
## 2121 1.13e-03 3.18e-03 2.23e-03 -1.33e-03 2.43e-03 2.69e-03 -1.33e-03  
## 2122 -4.51e-03 2.58e-02 6.67e-03 1.05e-02 5.16e-03 8.95e-03 2.84e-03  
## 2123 2.61e-03 1.31e-02 3.48e-02 3.78e-02 4.08e-02 -3.47e-02 -2.24e-02  
## 2124 9.07e-03 4.66e-03 -8.79e-03 -1.06e-02 -1.08e-02 5.88e-03 -1.30e-02  
## 2125 -1.41e-02 3.04e-04 -6.03e-03 -3.45e-03 -4.59e-03 -2.89e-03 -1.04e-02  
## 2126 -1.29e-02 1.24e-02 2.08e-02 3.61e-02 -3.32e-02 -3.10e-02 2.95e-02  
## 2127 -1.19e-05 -4.59e-04 1.09e-03 -7.93e-04 -7.61e-04 -6.58e-04 -1.15e-03  
## 2128 -6.16e-04 -1.65e-03 -2.37e-04 -2.35e-05 -1.61e-04 -1.30e-04 -3.09e-04  
## 2129 1.33e-02 -5.94e-04 -7.25e-03 -3.93e-03 -5.22e-03 -2.28e-03 -1.03e-02  
## 2130 7.73e-06 -6.60e-03 -1.78e-03 -2.10e-03 -2.09e-03 -2.15e-03 -2.66e-03  
## 2131 3.92e-03 -7.96e-03 -8.20e-03 -1.74e-02 1.56e-02 1.09e-02 -7.56e-03  
## 2132 2.09e-02 -8.08e-03 -3.12e-02 7.08e-03 1.32e-02 8.70e-03 -2.76e-02  
## 2133 9.27e-03 -2.97e-03 -7.18e-04 -3.27e-04 8.35e-05 9.33e-04 8.90e-05  
## 2134 4.12e-03 -3.97e-03 -5.50e-03 1.88e-03 2.85e-03 1.90e-03 -6.03e-03  
## 2135 -9.22e-03 3.16e-02 7.14e-03 6.95e-03 1.23e-02 1.28e-02 -2.57e-02  
## 2136 -1.21e-02 -4.38e-03 -1.97e-02 -1.55e-02 -1.99e-02 -1.04e-02 -3.18e-02  
## 2137 -7.58e-04 -4.19e-03 -7.86e-04 -1.03e-03 -1.15e-03 -1.67e-03 -1.44e-03  
## 2138 -3.62e-03 8.46e-03 5.19e-03 -8.34e-03 -9.48e-03 9.72e-03 7.52e-03  
## 2139 1.42e-02 2.62e-02 8.05e-03 1.06e-02 -1.15e-02 1.48e-02 -1.17e-02  
## 2140 -3.95e-03 1.61e-02 7.08e-03 1.04e-02 5.22e-03 -2.17e-02 4.43e-03  
## 2141 -1.67e-02 -3.59e-03 1.12e-02 1.05e-02 -2.80e-02 9.18e-03 1.69e-02  
## 2142 1.57e-03 -5.85e-03 -1.91e-03 -4.54e-03 -1.85e-03 -3.69e-03 -8.52e-04  
## 2143 -6.55e-04 -4.58e-03 -1.19e-03 -1.64e-03 -1.48e-03 -1.89e-03 -2.11e-03  
## 2144 -4.57e-05 -5.11e-03 -1.14e-03 -1.38e-03 -1.66e-03 -1.65e-03 -1.82e-03  
## 2145 6.33e-03 3.42e-03 1.91e-02 1.24e-02 -1.18e-02 1.71e-02 -3.00e-03  
## 2146 1.84e-02 1.23e-03 1.41e-02 6.92e-03 1.54e-02 7.44e-03 3.06e-02  
## 2147 -1.59e-04 6.81e-05 5.59e-06 1.80e-05 6.85e-06 8.06e-06 1.78e-05  
## 2148 2.86e-02 3.33e-02 7.50e-03 9.50e-03 3.82e-03 8.47e-03 3.13e-03  
## 2149 -2.15e-02 -2.19e-03 1.47e-02 1.09e-02 -2.67e-02 8.50e-03 1.91e-02  
## 2150 -2.12e-04 -3.31e-04 1.48e-05 1.89e-04 9.17e-05 2.80e-04 5.04e-05  
## 2151 -1.09e-02 -3.33e-03 -1.47e-02 -8.60e-03 -1.47e-02 -6.79e-03 -2.59e-02  
## 2152 1.42e-02 1.25e-03 -7.24e-03 -6.61e-03 -1.06e-02 -6.96e-03 -2.04e-02  
## 2153 3.64e-03 -1.89e-03 -1.00e-02 1.11e-02 -7.96e-03 1.45e-02 -2.58e-03  
## 2154 4.35e-04 4.37e-04 5.69e-04 -3.39e-04 -2.65e-04 -2.30e-04 -2.94e-04  
## 2155 6.98e-03 -1.99e-03 -5.50e-04 1.54e-04 2.95e-04 9.80e-04 -3.56e-04  
## 2156 8.04e-03 -4.58e-03 3.44e-03 3.39e-03 2.79e-03 1.90e-03 4.41e-03  
## 2157 1.39e-02 5.08e-03 -8.39e-03 -6.28e-03 2.63e-02 -6.83e-03 -1.55e-02  
## 2158 1.30e-02 -9.07e-03 -2.21e-02 9.66e-03 -2.24e-02 9.60e-03 -1.96e-02  
## 2159 -9.57e-03 1.82e-03 -1.05e-02 -2.03e-03 1.78e-02 -4.29e-03 9.51e-03  
## 2160 4.20e-03 2.27e-03 2.67e-04 9.94e-04 6.17e-04 8.75e-04 8.34e-04  
## 2161 -7.10e-04 -3.04e-03 -6.12e-04 -2.47e-04 -3.45e-04 9.07e-05 -7.82e-04  
## 2162 2.19e-03 -6.45e-03 -3.22e-03 -5.72e-03 -5.51e-03 -7.48e-03 7.13e-03  
## 2163 -7.82e-03 4.21e-04 -4.12e-03 6.30e-04 -7.39e-03 -7.92e-04 8.18e-03  
## 2164 -1.13e-02 -1.75e-03 -6.26e-03 -2.43e-03 -4.60e-03 1.31e-04 -9.26e-03  
## 2165 2.97e-03 -2.78e-03 -3.72e-03 1.45e-03 1.08e-03 9.66e-04 1.72e-03  
## 2166 -2.53e-03 3.05e-03 4.53e-03 -6.27e-03 -8.47e-03 -6.06e-03 3.15e-03  
## 2167 -5.32e-03 2.28e-02 5.59e-03 9.84e-03 -2.46e-02 1.17e-02 1.33e-02  
## 2168 -4.62e-03 2.44e-02 6.60e-03 1.04e-02 4.98e-03 8.82e-03 2.17e-03  
## 2169 -2.04e-02 -9.47e-03 9.66e-03 8.57e-03 -3.20e-02 1.14e-02 3.34e-02  
## 2170 -7.88e-04 -2.44e-03 -4.20e-04 -2.09e-04 -2.32e-04 2.33e-07 -7.22e-04  
## 2171 2.90e-02 1.06e-02 -2.40e-02 -2.04e-02 -2.43e-02 3.84e-02 2.55e-02  
## 2172 1.74e-03 1.32e-03 -1.28e-04 -1.13e-04 -5.66e-05 -1.08e-04 -4.21e-06  
## 2173 -3.26e-04 -8.44e-04 -9.22e-04 -3.19e-03 -1.38e-03 6.48e-03 8.64e-03  
## 2174 1.25e-03 1.01e-03 -1.66e-05 -2.96e-04 -3.13e-04 -3.16e-04 9.21e-05  
## 2175 -3.86e-04 -3.40e-03 -8.25e-04 -3.28e-04 -3.66e-04 2.61e-04 -9.80e-04  
## 2176 -5.76e-03 -7.69e-04 -9.05e-04 4.55e-03 -8.85e-04 -2.39e-03 6.53e-03  
## 2177 5.25e-03 4.74e-03 -4.96e-03 5.33e-03 -4.41e-03 -5.09e-03 -4.12e-03  
## 2178 2.40e-03 -3.46e-04 1.14e-02 1.01e-02 -2.19e-03 -5.59e-03 1.29e-03  
## 2179 -3.85e-03 1.47e-02 6.62e-03 9.80e-03 5.09e-03 -2.07e-02 3.69e-03  
## 2180 -1.04e-02 3.30e-03 -2.64e-03 3.64e-04 1.65e-02 -8.15e-04 -1.26e-02  
## 2181 -4.23e-02 -3.97e-02 -2.06e-02 3.89e-02 -1.28e-02 -2.02e-02 -3.88e-03  
## 2182 1.05e-03 1.02e-03 -5.15e-05 -4.08e-04 -2.77e-04 -4.13e-04 -2.95e-05  
## 2183 1.92e-05 -2.29e-04 -1.61e-05 -1.45e-04 1.61e-05 -8.54e-05 5.15e-05  
## 2184 6.09e-04 7.58e-04 9.91e-03 1.01e-02 7.47e-03 -1.91e-02 6.95e-03  
## 2185 -4.05e-03 1.50e-03 -2.54e-04 -4.67e-04 -3.38e-04 -9.50e-05 1.97e-04  
## 2186 -2.14e-03 -4.01e-03 1.91e-03 -4.56e-03 1.12e-03 1.56e-03 1.79e-03  
## 2187 8.72e-03 1.69e-03 -2.84e-03 5.23e-04 -5.92e-03 -1.68e-03 7.25e-03  
## 2188 3.18e-05 -1.59e-05 2.48e-05 2.66e-05 1.67e-05 1.81e-05 2.47e-05  
## 2189 -6.07e-04 -7.76e-04 2.33e-05 -1.47e-04 -1.84e-04 -2.04e-04 -1.09e-04  
## 2190 1.20e-02 1.88e-03 -5.93e-03 -2.48e-03 -7.34e-03 -4.96e-03 1.74e-02  
## 2191 8.72e-03 -3.27e-03 -8.46e-04 -7.87e-04 -6.37e-04 -1.13e-03 -1.12e-03  
## 2192 -9.25e-04 -4.12e-03 -6.62e-04 -8.93e-04 -1.26e-03 -1.76e-03 -1.41e-03  
## 2193 2.69e-03 4.75e-03 3.22e-03 3.42e-03 2.98e-03 -4.71e-03 2.76e-03  
## 2194 1.58e-02 1.35e-02 7.93e-03 1.17e-02 -1.60e-02 -1.41e-02 8.14e-03  
## 2195 -2.98e-04 8.42e-05 -1.01e-05 -3.31e-05 -2.28e-05 -2.02e-05 -8.60e-06  
## 2196 -5.09e-03 1.70e-02 -1.39e-02 8.95e-03 7.24e-03 1.04e-02 -1.74e-02  
## 2197 -1.78e-03 2.87e-04 -3.30e-03 -2.94e-03 -2.47e-03 -2.17e-03 -3.04e-03  
## 2198 1.56e-02 -1.50e-03 -8.40e-03 -4.59e-03 -6.53e-03 -1.81e-03 -1.17e-02  
## 2199 1.79e-05 -1.00e-04 -1.96e-05 -6.08e-05 -4.16e-05 -7.48e-05 1.86e-04  
## 2200 -4.67e-03 1.76e-02 1.06e-02 3.21e-02 1.30e-02 -4.81e-02 3.64e-03  
## 2201 -2.51e-02 -5.47e-03 -2.07e-02 9.16e-03 -1.65e-02 1.54e-02 -7.44e-03  
## 2202 -5.60e-03 4.90e-03 2.01e-02 -1.60e-02 2.55e-02 -1.17e-02 -3.91e-02  
## 2203 1.43e-02 5.43e-03 -7.56e-03 -3.95e-03 2.13e-02 -6.33e-03 1.54e-02  
## 2204 -6.70e-03 3.13e-03 -1.21e-03 1.45e-03 1.01e-02 -4.08e-04 5.13e-03  
## 2205 -9.49e-04 -7.67e-03 -2.15e-03 -3.59e-03 -2.53e-03 -3.27e-03 -3.02e-03  
## 2206 5.42e-04 4.98e-04 6.50e-03 5.97e-03 -3.01e-04 -2.10e-03 6.39e-04  
## 2207 5.14e-03 -4.55e-03 1.60e-02 -1.70e-02 -8.50e-03 1.50e-02 -3.73e-03  
## 2208 -4.65e-04 -3.07e-03 -7.84e-04 -4.27e-04 -3.49e-04 6.97e-05 -8.55e-04  
## 2209 6.82e-03 -1.78e-03 -3.72e-04 4.96e-04 3.64e-04 9.56e-04 4.55e-05  
## 2210 1.78e-02 6.80e-03 2.36e-02 -6.59e-03 -1.13e-02 -7.73e-03 -2.27e-02  
## 2211 8.93e-05 8.98e-05 -2.61e-04 1.68e-04 1.42e-04 1.54e-04 -3.22e-04  
## 2212 2.07e-03 -8.49e-03 1.31e-02 -1.10e-02 -5.11e-03 -1.14e-02 -3.71e-03  
## 2213 -4.47e-03 -3.84e-03 2.95e-03 2.36e-03 2.01e-03 1.68e-03 3.48e-03  
## 2214 5.86e-03 -4.76e-03 -7.42e-03 2.13e-03 1.57e-03 1.26e-03 2.24e-03  
## 2215 -2.78e-02 3.94e-04 1.38e-02 5.83e-03 2.15e-02 7.87e-03 -1.83e-02  
## 2216 6.16e-03 -4.49e-03 3.02e-03 3.15e-03 -8.49e-03 2.19e-03 4.28e-03  
## 2217 1.00e-02 -7.07e-03 5.59e-03 2.31e-03 8.10e-03 4.56e-03 -8.03e-03  
## 2218 9.62e-03 -2.31e-03 1.84e-02 9.21e-03 -1.83e-02 1.17e-02 -6.85e-03  
## 2219 -1.33e-02 3.73e-03 2.29e-02 -8.50e-03 -1.39e-02 -8.15e-03 -2.54e-02  
## 2220 2.07e-02 4.14e-03 2.31e-02 -7.01e-03 -8.83e-03 -3.25e-03 -1.39e-02  
## 2221 -2.90e-04 5.63e-03 -1.47e-02 8.73e-03 1.02e-02 1.10e-02 -1.75e-02  
## 2222 5.09e-04 -3.46e-04 3.97e-03 -2.42e-03 4.38e-03 -2.85e-03 3.39e-03  
## 2223 -2.94e-04 -3.68e-04 -1.78e-05 -8.50e-05 -9.14e-05 -1.36e-04 -8.06e-05  
## 2224 -2.73e-04 4.53e-04 -1.69e-03 8.28e-03 1.18e-02 -5.19e-03 -3.82e-04  
## 2225 -2.02e-02 7.95e-04 1.23e-02 1.20e-02 1.20e-02 8.19e-03 1.77e-02  
## 2226 6.89e-04 6.04e-04 -6.77e-05 -3.10e-04 -1.97e-04 -2.97e-04 -9.42e-05  
## 2227 1.79e-02 -5.87e-04 -1.16e-02 -8.23e-03 -8.75e-03 -6.94e-03 -1.54e-02  
## 2228 5.54e-04 6.29e-04 -1.80e-05 -2.76e-04 -1.98e-04 -3.36e-04 -2.78e-05  
## 2229 -1.50e-03 7.92e-04 -1.79e-03 -2.18e-03 1.57e-03 -2.40e-03 -3.39e-03  
## 2230 6.81e-03 7.15e-03 -5.79e-03 7.10e-03 4.43e-03 -4.58e-03 3.35e-03  
## 2231 7.19e-03 5.57e-03 -6.68e-03 -7.43e-03 -7.84e-03 7.93e-03 -9.66e-03  
## 2232 -2.58e-02 1.63e-03 1.45e-02 7.60e-03 1.07e-02 4.34e-03 2.04e-02  
## 2233 -3.48e-05 1.45e-03 -1.46e-02 9.75e-03 -1.33e-02 1.18e-02 1.55e-02  
## 2234 -2.13e-02 -2.30e-02 9.64e-03 5.27e-03 2.05e-02 -4.68e-02 -1.75e-02  
## 2235 1.03e-03 7.89e-05 -3.71e-03 1.32e-03 -3.54e-03 2.18e-03 -2.54e-03  
## 2236 -1.97e-03 -2.27e-03 1.46e-03 1.90e-03 1.31e-03 1.57e-03 1.99e-03  
## 2237 7.05e-04 -2.41e-04 3.20e-05 1.52e-05 8.35e-06 1.85e-05 6.44e-06  
## 2238 3.10e-03 -1.33e-03 -1.89e-04 -2.23e-04 -2.67e-04 -5.22e-04 -4.14e-04  
## 2239 2.92e-04 3.39e-03 -7.88e-03 1.01e-02 1.92e-02 8.03e-03 -7.08e-03  
## 2240 -4.69e-02 -1.97e-02 3.98e-02 3.59e-02 -2.08e-02 3.99e-02 -1.10e-02  
## 2241 1.30e-04 3.36e-04 5.67e-03 5.23e-03 3.94e-05 -1.75e-03 6.48e-04  
## 2242 -1.56e-02 1.49e-02 -2.80e-03 2.80e-02 1.93e-02 -5.16e-03 1.06e-02  
## 2243 2.88e-04 3.05e-04 1.03e-07 -1.03e-04 -7.80e-05 -1.66e-04 3.15e-05  
## 2244 1.20e-02 1.13e-02 6.41e-03 -1.31e-02 3.27e-03 5.55e-03 1.04e-03  
## 2245 -5.59e-03 1.59e-02 6.76e-03 9.86e-03 1.19e-02 -2.10e-02 -1.80e-02  
## 2246 -7.24e-04 -2.71e-03 -5.12e-04 -2.39e-04 -2.55e-04 6.23e-05 -8.01e-04  
## 2247 -7.17e-03 2.37e-02 5.41e-03 5.17e-03 -2.62e-02 1.21e-02 -2.21e-02  
## 2248 1.79e-03 1.87e-03 -1.28e-04 -9.80e-05 1.67e-04 5.05e-04 5.36e-04  
## 2249 7.97e-03 -5.04e-03 4.03e-03 3.62e-03 4.12e-03 3.92e-03 9.13e-03  
## 2250 -2.95e-05 1.57e-04 5.46e-05 1.24e-04 1.13e-04 1.62e-04 -2.78e-04  
## 2251 -3.13e-03 1.36e-02 6.67e-03 -1.44e-02 4.24e-03 9.56e-03 1.97e-03  
## 2252 -9.21e-04 4.10e-04 -3.81e-03 -2.62e-03 -4.21e-03 -2.73e-03 1.47e-03  
## 2253 2.64e-03 4.17e-03 3.40e-03 3.69e-03 -2.04e-03 -2.70e-03 -2.33e-03  
## 2254 2.47e-04 -4.14e-04 -3.01e-04 2.70e-04 3.89e-04 -3.66e-04 -1.36e-04  
## 2255 -6.01e-04 -1.68e-03 -2.59e-04 6.32e-04 5.33e-04 1.48e-03 1.64e-04  
## 2256 1.62e-02 1.91e-02 -1.20e-02 -1.41e-02 3.07e-02 3.50e-02 -2.06e-02  
## 2257 9.64e-03 2.08e-02 8.97e-03 8.40e-03 4.98e-03 4.96e-03 3.30e-03  
## 2258 1.23e-02 1.52e-03 -6.49e-03 -3.12e-03 -7.42e-03 -5.21e-03 1.68e-02  
## 2259 1.44e-02 4.47e-02 3.34e-02 3.75e-02 3.07e-02 3.38e-02 -2.64e-02  
## 2260 1.84e-04 -9.97e-04 -2.50e-04 -6.95e-04 -1.09e-04 -3.95e-04 2.27e-05  
## 2261 -1.49e-02 2.03e-02 2.22e-02 -2.68e-03 1.79e-02 2.52e-02 7.55e-03  
## 2262 -1.37e-02 -8.86e-03 1.16e-02 -1.04e-02 -4.18e-03 -9.21e-03 -2.47e-03  
## 2263 2.33e-05 -1.66e-04 -3.06e-05 -1.14e-04 -8.66e-06 -7.40e-05 1.25e-05  
## 2264 -6.37e-04 -7.31e-04 -1.52e-05 1.34e-05 5.98e-05 2.64e-04 -3.05e-05  
## 2265 1.53e-02 -8.58e-04 -1.00e-02 -9.89e-03 -8.82e-03 -7.41e-03 -1.46e-02  
## 2266 1.11e-02 4.29e-03 -5.01e-03 -9.84e-04 1.81e-02 -2.86e-03 1.35e-02  
## 2267 -3.16e-02 4.39e-03 2.06e-02 8.67e-03 2.23e-02 9.57e-03 -1.20e-02  
## 2268 -4.14e-03 2.16e-02 6.84e-03 9.42e-03 -2.61e-02 9.83e-03 5.74e-03  
## 2269 -7.42e-04 -1.54e-03 -2.91e-04 -1.96e-04 -1.12e-04 -2.37e-04 -4.78e-04  
## 2270 2.38e-02 2.95e-02 -1.82e-02 3.61e-02 -2.37e-02 3.41e-02 1.39e-02  
## 2271 -1.51e-02 -7.40e-05 -7.14e-03 -4.92e-03 -5.22e-03 -3.00e-03 -1.21e-02  
## 2272 7.75e-03 -8.28e-03 1.68e-02 1.07e-02 -1.29e-02 -2.73e-02 -7.22e-03  
## 2273 -9.39e-03 2.28e-02 1.64e-02 -2.80e-02 1.89e-02 3.97e-02 7.90e-03  
## 2274 -5.48e-03 1.75e-02 7.01e-03 -2.29e-02 3.30e-03 7.32e-03 -4.52e-04  
## 2275 1.74e-03 -6.63e-04 -3.86e-06 -3.49e-04 -9.10e-05 -3.86e-04 -2.63e-04  
## 2276 2.65e-02 -2.00e-02 1.14e-02 1.47e-03 2.11e-02 -5.73e-02 -2.20e-02  
## 2277 -3.17e-02 -3.27e-02 -9.05e-03 -9.75e-03 3.60e-02 -1.27e-02 -1.79e-02  
## 2278 -1.54e-03 -7.80e-03 -3.92e-02 -1.96e-02 1.81e-02 -1.73e-02 7.82e-03  
## 2279 1.37e-02 4.61e-04 -8.25e-03 -5.95e-03 -6.54e-03 -5.39e-03 -1.33e-02  
## 2280 -2.38e-03 9.27e-03 5.57e-03 -1.41e-02 -1.83e-02 9.31e-03 2.99e-03  
## 2281 -1.29e-02 1.46e-02 -3.51e-02 3.72e-02 2.72e-02 -2.35e-02 -4.44e-02  
## 2282 -6.46e-03 1.31e-02 5.79e-03 7.62e-03 -2.37e-02 -2.74e-02 1.28e-02  
## 2283 -1.77e-03 8.40e-03 1.25e-02 -4.29e-02 5.89e-03 2.75e-02 -7.65e-04  
## 2284 -2.17e-02 -1.06e-02 -3.69e-02 6.18e-03 1.29e-02 9.86e-03 -3.10e-02  
## 2285 -1.10e-04 2.64e-04 -1.14e-03 2.65e-04 1.33e-05 2.35e-04 -7.82e-05  
## 2286 -3.21e-03 -3.18e-03 -9.62e-03 -6.59e-03 2.55e-02 -1.33e-02 2.10e-02  
## 2287 -1.17e-02 9.16e-04 -5.03e-03 -1.52e-03 -5.67e-03 -3.01e-03 1.48e-02  
## 2288 -2.02e-03 -1.24e-03 1.50e-03 1.16e-03 9.77e-04 7.78e-04 1.41e-03  
## 2289 -2.13e-03 -4.29e-03 1.89e-03 -5.08e-03 1.04e-03 1.58e-03 1.83e-03  
## 2290 -1.22e-02 1.02e-02 2.04e-02 -2.26e-04 1.71e-02 -4.95e-03 8.24e-03  
## 2291 -5.94e-03 -1.40e-02 -1.41e-02 -1.38e-02 -1.13e-02 -1.33e-02 -1.07e-02  
## 2292 -6.58e-03 2.98e-02 7.29e-03 1.00e-02 5.47e-03 7.14e-03 1.89e-03  
## 2293 -1.11e-02 1.79e-02 1.88e-02 -3.70e-02 1.24e-02 3.04e-02 3.33e-03  
## 2294 6.09e-04 3.67e-03 8.50e-03 7.64e-03 -4.00e-03 6.99e-03 8.78e-03  
## 2295 7.22e-04 -1.19e-03 7.76e-04 5.40e-04 -8.04e-04 -1.29e-03 -4.01e-04  
## 2296 -1.23e-02 1.35e-02 2.11e-02 3.56e-02 -3.83e-02 -3.21e-02 1.37e-02  
## 2297 2.40e-02 -1.61e-02 1.19e-02 8.90e-03 1.66e-02 -4.72e-02 3.39e-02  
## 2298 -3.09e-03 -3.12e-03 1.88e-03 2.15e-03 1.57e-03 1.37e-03 2.16e-03  
## 2299 6.48e-03 -2.99e-02 -1.18e-02 4.10e-02 -6.65e-03 -1.85e-02 -7.69e-04  
## 2300 -1.01e-02 -2.05e-03 -2.21e-03 -5.55e-03 9.26e-03 7.56e-03 -1.80e-03  
## 2301 1.15e-02 -4.48e-03 -2.14e-02 7.32e-03 1.79e-02 9.19e-03 -1.26e-02  
## 2302 -2.12e-02 7.63e-05 1.32e-02 9.87e-03 9.88e-03 8.54e-03 1.93e-02  
## 2303 -4.44e-03 1.15e-02 -1.59e-02 1.09e-02 8.41e-03 -1.38e-02 -1.75e-02  
## 2304 -4.26e-03 -1.45e-03 -7.10e-04 -2.11e-03 -8.41e-04 3.55e-03 -3.63e-04  
## 2305 2.16e-03 1.77e-03 1.21e-02 1.06e-02 1.26e-02 -6.99e-03 -4.33e-03  
## 2306 5.92e-04 1.24e-03 1.18e-03 1.40e-03 7.42e-04 8.39e-04 9.73e-04  
## 2307 -1.64e-02 -1.35e-02 1.45e-02 -1.53e-02 -8.53e-03 -1.58e-02 -4.52e-03  
## 2308 -7.26e-04 -2.62e-03 -5.46e-04 -3.29e-04 -2.79e-04 -5.13e-05 -6.94e-04  
## 2309 6.84e-03 -6.12e-03 1.51e-02 1.17e-02 -8.47e-03 -1.56e-02 -1.49e-03  
## 2310 -3.00e-03 -3.16e-03 1.80e-03 2.13e-03 1.51e-03 1.31e-03 2.36e-03  
## 2311 1.09e-02 1.31e-02 7.13e-03 8.12e-03 9.88e-03 -1.13e-02 -9.42e-03  
## 2312 -1.80e-04 -6.60e-03 -1.81e-03 -2.25e-03 -1.97e-03 -2.25e-03 -2.53e-03  
## 2313 3.57e-04 -9.33e-05 1.12e-05 4.37e-05 2.21e-05 2.71e-05 7.43e-06  
## 2314 -3.07e-05 7.60e-05 5.74e-05 1.57e-04 1.06e-04 -5.64e-04 1.68e-04  
## 2315 -2.37e-02 -2.27e-03 1.26e-02 8.93e-03 2.10e-02 1.14e-02 -1.45e-02  
## 2316 -2.42e-03 -1.65e-03 1.82e-03 1.85e-03 1.40e-03 1.17e-03 1.83e-03  
## 2317 1.76e-03 -8.87e-04 -6.82e-03 8.83e-03 -1.18e-02 7.12e-03 -1.16e-02  
## 2318 1.24e-03 1.11e-03 -2.12e-04 -5.74e-04 -2.89e-04 -6.17e-04 -5.48e-05  
## 2319 -1.24e-02 3.55e-03 -1.25e-02 -4.71e-03 2.00e-02 -9.20e-03 9.81e-03  
## 2320 -1.63e-02 1.24e-02 -1.09e-02 -7.17e-03 2.77e-02 3.66e-02 -1.62e-02  
## 2321 -5.75e-04 -7.38e-03 -1.59e-03 -2.77e-03 -2.73e-03 -2.90e-03 -2.22e-03  
## 2322 2.92e-04 -1.06e-03 -7.54e-04 4.14e-03 -5.22e-04 -2.36e-03 -7.31e-05  
## 2323 -2.82e-02 -3.68e-03 1.65e-02 7.00e-03 -2.91e-02 7.03e-03 -2.36e-02  
## 2324 9.72e-03 -2.00e-03 1.79e-02 8.45e-03 -2.04e-02 8.79e-03 -1.18e-02  
## 2325 2.41e-03 -1.68e-03 -3.88e-03 9.23e-03 1.00e-02 -7.61e-03 1.22e-02  
## 2326 1.46e-02 1.75e-02 -1.58e-02 8.45e-03 6.80e-03 6.64e-03 7.96e-03  
## 2327 1.25e-02 -5.08e-03 -1.13e-03 -2.10e-03 -1.36e-03 -1.83e-03 -1.11e-03  
## 2328 -4.54e-03 6.11e-03 4.91e-03 -5.87e-03 -5.91e-03 6.30e-03 -7.73e-03  
## 2329 -1.40e-03 -6.63e-04 1.14e-03 1.10e-03 -9.34e-04 1.78e-03 -3.14e-04  
## 2330 1.93e-02 1.83e-03 1.48e-02 2.89e-03 1.56e-02 2.10e-03 -3.42e-02  
## 2331 -3.56e-03 1.09e-02 6.13e-03 -2.03e-02 -2.37e-02 1.02e-02 3.20e-03  
## 2332 2.28e-02 -7.11e-04 -1.44e-02 -1.04e-02 -1.15e-02 -7.50e-03 -1.73e-02  
## 2333 -5.80e-03 1.31e-03 1.92e-02 -1.72e-02 1.76e-02 -2.22e-02 8.69e-03  
## 2334 3.77e-03 2.65e-03 -3.79e-04 -9.50e-04 -5.73e-04 -4.28e-04 1.72e-04  
## 2335 -8.76e-03 -8.41e-04 -7.00e-03 -6.41e-04 -9.55e-03 -2.27e-03 9.83e-03  
## 2336 -8.77e-04 -1.22e-04 4.83e-03 -5.02e-03 -4.71e-03 5.89e-03 6.09e-03  
## 2337 -1.29e-04 7.65e-04 1.54e-04 4.00e-04 -3.56e-05 2.76e-04 -3.50e-05  
## 2338 1.18e-02 -1.87e-02 1.42e-02 -2.33e-02 1.84e-02 -2.29e-02 -1.10e-02  
## 2339 -7.18e-03 2.99e-02 8.37e-03 1.10e-02 5.41e-03 9.14e-03 4.68e-03  
## 2340 1.64e-03 -2.58e-03 6.57e-03 -6.44e-03 -7.56e-03 -6.16e-03 6.27e-03  
## 2341 -3.94e-04 -7.28e-03 -1.44e-03 -2.67e-03 -2.63e-03 -2.30e-03 -2.40e-03  
## 2342 1.49e-05 1.77e-03 -1.23e-03 6.92e-03 -1.81e-03 7.00e-03 1.01e-02  
## 2343 1.15e-02 -3.90e-03 -1.27e-03 -7.97e-04 -8.08e-04 -7.33e-04 -1.03e-03  
## 2344 -5.46e-04 -5.39e-04 2.63e-03 -3.22e-03 -3.78e-03 1.96e-03 1.28e-03  
## 2345 -2.42e-04 3.32e-04 3.44e-04 -3.57e-03 8.06e-04 1.25e-03 -3.28e-03  
## 2346 2.74e-02 -1.25e-03 1.16e-02 3.54e-03 1.29e-02 6.91e-03 -3.50e-02  
## 2347 3.59e-03 -2.31e-03 3.48e-03 1.88e-03 3.99e-03 2.02e-03 -3.31e-03  
## 2348 -6.57e-04 -7.73e-03 -2.07e-03 -3.64e-03 -2.72e-03 -2.92e-03 -3.08e-03  
## 2349 -2.34e-02 -3.63e-03 1.09e-02 6.15e-03 1.52e-02 9.35e-03 3.35e-02  
## 2350 -3.62e-04 -9.79e-04 -1.16e-04 4.78e-04 3.53e-04 8.17e-04 1.91e-04  
## 2351 4.75e-03 -6.35e-03 3.10e-03 2.66e-03 -4.33e-03 -6.50e-03 -2.51e-03  
## 2352 -7.17e-03 1.61e-02 6.79e-03 6.72e-03 3.74e-03 4.83e-03 2.27e-03  
## 2353 -2.73e-04 -3.78e-04 2.59e-04 2.67e-04 3.02e-04 -4.25e-04 -3.39e-04  
## 2354 1.11e-04 1.25e-04 6.30e-06 7.47e-06 1.32e-05 3.81e-05 4.24e-05  
## 2355 1.23e-02 5.17e-03 -1.26e-02 -1.48e-02 -1.42e-02 6.65e-03 -1.77e-02  
## 2356 2.59e-03 1.88e-03 -3.22e-04 -8.41e-04 -5.38e-04 -5.71e-04 -3.43e-05  
## 2357 9.05e-03 -4.83e-02 -1.50e-02 -2.28e-02 -9.92e-03 -1.82e-02 -7.91e-03  
## 2358 -1.41e-03 -1.81e-04 7.81e-03 -1.36e-02 7.10e-03 6.05e-03 8.51e-03  
## 2359 -5.52e-03 2.79e-02 7.23e-03 9.48e-03 4.53e-03 9.15e-03 3.36e-03  
## 2360 2.08e-02 -1.14e-02 -3.10e-02 7.09e-03 -3.52e-02 6.12e-03 1.78e-02  
## 2361 1.84e-02 -1.63e-02 1.26e-02 7.86e-03 -2.64e-02 -3.85e-02 -2.38e-02  
## 2362 1.33e-02 -6.65e-04 -7.25e-03 -3.92e-03 -5.20e-03 -2.27e-03 -1.03e-02  
## 2363 1.18e-02 6.31e-03 -5.76e-03 -2.55e-03 2.13e-02 -6.06e-03 1.57e-02  
## 2364 9.68e-06 -3.32e-04 -1.26e-05 -1.93e-04 2.47e-05 -1.17e-04 7.44e-05  
## 2365 1.05e-04 -2.11e-04 6.25e-04 -1.85e-04 -9.70e-05 -1.80e-04 7.69e-04  
## 2366 4.73e-05 -2.35e-04 -6.55e-05 -1.71e-04 -2.23e-05 -1.07e-04 -1.90e-06  
## 2367 2.27e-02 -1.09e-02 -3.90e-03 -6.51e-03 -5.15e-03 -5.64e-03 -4.60e-03  
## 2368 -4.99e-03 -4.60e-03 3.28e-03 2.79e-03 2.15e-03 2.00e-03 4.04e-03  
## 2369 1.66e-04 -2.60e-04 -1.85e-04 -2.19e-04 -1.34e-04 1.89e-04 -1.01e-04  
## 2370 1.20e-04 -6.28e-03 -1.88e-03 -2.25e-03 -2.00e-03 -2.16e-03 -2.66e-03  
## 2371 -6.25e-04 -2.85e-04 -4.34e-05 -2.01e-04 -4.57e-06 -1.50e-04 8.44e-06  
## 2372 -6.72e-03 2.18e-02 -2.02e-02 9.79e-03 9.05e-03 1.37e-02 -2.31e-02  
## 2373 -2.75e-03 3.56e-03 -3.86e-03 -4.35e-03 1.70e-03 3.02e-03 7.18e-04  
## 2374 3.09e-02 -5.42e-03 -2.21e-02 -1.61e-02 -1.56e-02 -9.99e-03 -2.22e-02  
## 2375 -1.05e-02 9.01e-03 2.31e-02 -6.90e-03 1.90e-02 -8.26e-03 1.21e-02  
## 2376 3.07e-03 -5.74e-03 -6.14e-03 8.57e-03 1.32e-02 -1.42e-02 -4.07e-03  
## 2377 -4.93e-04 -3.04e-03 -7.79e-04 -4.35e-04 -3.61e-04 3.54e-05 -8.56e-04  
## 2378 6.83e-04 -3.00e-03 -4.55e-03 -3.82e-03 3.63e-03 -4.41e-03 2.10e-03  
## 2379 4.96e-04 9.34e-03 1.10e-02 1.05e-02 7.83e-03 7.63e-03 8.14e-03  
## 2380 5.60e-03 1.32e-03 1.90e-02 9.27e-03 -1.97e-02 6.52e-03 2.85e-02  
## 2381 4.51e-03 5.02e-03 -1.76e-02 1.19e-02 7.34e-03 9.66e-03 6.36e-03  
## 2382 -4.43e-03 9.52e-03 -6.13e-03 6.10e-03 2.97e-03 3.82e-03 1.77e-03  
## 2383 2.92e-02 -2.18e-02 -4.62e-02 1.68e-03 -3.60e-02 1.04e-02 -1.99e-02  
## 2384 -6.96e-03 3.08e-02 6.67e-03 8.92e-03 8.25e-03 1.11e-02 1.31e-02  
## 2385 -2.84e-03 -3.31e-03 -5.24e-03 2.28e-03 1.80e-03 2.40e-03 2.66e-03  
## 2386 -5.33e-04 -2.59e-03 -3.99e-04 1.05e-04 -1.77e-04 1.44e-04 -4.50e-04  
## 2387 2.88e-02 3.28e-02 6.63e-03 6.14e-03 6.63e-03 8.75e-03 -3.60e-02  
## 2388 1.92e-02 -6.32e-03 1.45e-02 5.71e-03 -3.27e-02 9.42e-03 -2.49e-02  
## 2389 -1.54e-02 1.24e-02 -2.16e-02 3.38e-02 2.01e-02 -2.38e-02 8.28e-03  
## 2390 1.06e-03 2.75e-03 -3.62e-03 7.95e-03 7.58e-03 6.30e-03 8.19e-03  
## 2391 1.10e-02 3.88e-03 1.87e-02 1.11e-02 -2.34e-02 1.28e-02 -1.83e-02  
## 2392 6.86e-03 -6.50e-03 -1.36e-02 -1.82e-02 1.56e-02 1.12e-02 1.88e-02  
## 2393 1.00e-02 2.88e-03 -3.38e-03 -1.24e-04 -7.99e-03 -4.24e-03 9.57e-03  
## 2394 4.42e-03 5.22e-03 -2.09e-02 1.17e-02 7.72e-03 9.74e-03 8.27e-03  
## 2395 2.75e-03 2.70e-03 9.13e-03 6.29e-03 -2.34e-02 1.26e-02 -1.90e-02  
## 2396 -1.13e-02 -2.49e-02 8.99e-03 -2.24e-02 -1.94e-02 -2.23e-02 2.07e-02  
## 2397 -4.52e-03 1.07e-02 -1.69e-02 8.73e-03 3.93e-03 -2.08e-02 2.54e-03  
## 2398 -5.60e-05 -5.21e-03 -1.17e-03 -1.41e-03 -1.68e-03 -1.68e-03 -1.83e-03  
## 2399 4.40e-03 -1.63e-03 2.39e-03 3.01e-03 2.30e-03 2.53e-03 3.33e-03  
## 2400 6.31e-03 -6.02e-03 -9.65e-03 -1.48e-02 1.25e-02 1.19e-02 -1.21e-02  
## 2401 1.36e-02 6.28e-03 -6.49e-03 -2.83e-03 1.87e-02 -6.92e-03 7.81e-03  
## 2402 1.17e-02 7.35e-03 2.05e-02 -1.40e-03 -9.04e-03 -5.46e-03 9.80e-03  
## 2403 1.51e-02 3.32e-06 -8.89e-03 -6.88e-03 -7.25e-03 -5.21e-03 -1.36e-02  
## 2404 5.19e-04 4.23e-04 -7.33e-05 -2.59e-04 -1.41e-04 -2.28e-04 -8.25e-05  
## 2405 8.29e-04 -5.77e-03 -1.31e-02 8.84e-03 -9.32e-03 -1.17e-02 -7.07e-03  
## 2406 6.95e-03 6.23e-04 -1.29e-02 1.20e-02 1.08e-02 6.49e-03 1.26e-02  
## 2407 -1.09e-04 -1.05e-04 -1.42e-04 8.77e-05 6.70e-05 5.38e-05 7.38e-05  
## 2408 1.54e-03 -1.91e-03 3.61e-02 -4.29e-02 -3.12e-02 4.40e-02 -2.31e-02  
## 2409 2.44e-03 -4.62e-03 5.35e-03 -6.59e-03 -6.00e-03 -4.74e-03 1.05e-02  
## 2410 -1.56e-03 -3.46e-03 -6.02e-04 -9.30e-04 -5.82e-04 -5.85e-04 -8.90e-04  
## 2411 -7.39e-03 -4.38e-03 -1.69e-02 -6.46e-03 -1.81e-02 -5.55e-03 1.14e-02  
## 2412 1.40e-02 -2.11e-03 1.54e-02 8.93e-03 -1.99e-02 1.78e-02 -7.78e-03  
## 2413 3.50e-03 -3.47e-03 -1.43e-02 1.03e-02 7.42e-03 -1.69e-02 5.45e-03  
## 2414 1.36e-02 -8.61e-03 -2.42e-02 8.50e-03 -3.14e-02 5.49e-03 1.80e-02  
## 2415 -2.58e-03 8.02e-03 4.54e-03 8.14e-03 -9.54e-03 -7.64e-03 3.83e-03  
## 2416 4.46e-03 -1.23e-03 8.11e-03 -1.96e-02 9.51e-03 1.04e-02 -2.28e-02  
## 2417 -3.39e-03 3.12e-03 7.76e-03 5.67e-03 -1.06e-02 5.14e-03 9.49e-03  
## 2418 -2.43e-02 5.82e-04 1.27e-02 6.32e-03 9.64e-03 3.80e-03 1.88e-02  
## 2419 -8.01e-04 -2.61e-03 -4.56e-04 -1.92e-04 -2.96e-04 1.04e-05 -6.94e-04  
## 2420 -6.60e-03 1.57e-02 1.42e-02 2.92e-02 9.53e-03 -5.47e-02 1.67e-03  
## 2421 -1.56e-03 -6.32e-03 -1.43e-03 -3.05e-03 -2.46e-03 -3.05e-03 -2.45e-03  
## 2422 1.92e-03 -9.75e-06 -1.86e-02 9.34e-03 -2.17e-02 8.63e-03 7.86e-03  
## 2423 -5.69e-03 -1.19e-02 -1.15e-02 -1.34e-02 -1.66e-02 -1.46e-02 -2.08e-02  
## 2424 -1.23e-02 3.43e-03 -1.92e-02 -8.93e-03 2.18e-02 -1.31e-02 9.56e-03  
## 2425 -9.87e-03 -3.65e-03 -4.00e-03 -6.89e-03 -6.29e-03 5.88e-03 6.66e-03  
## 2426 -3.41e-03 7.41e-03 4.52e-03 -5.12e-03 -6.76e-03 8.02e-03 3.63e-03  
## 2427 -4.34e-03 -1.47e-02 -1.23e-02 -9.91e-03 -9.17e-03 -7.86e-03 -8.08e-03  
## 2428 5.63e-03 -2.27e-03 -3.91e-04 -1.04e-03 -5.98e-04 -2.01e-03 -1.36e-03  
## 2429 3.88e-03 -8.34e-03 6.79e-03 -1.21e-02 -1.07e-02 -1.02e-02 1.28e-02  
## 2430 -2.21e-04 -5.39e-03 -1.17e-03 -1.22e-03 -1.64e-03 -1.90e-03 -1.83e-03  
## 2431 -6.32e-03 2.06e-02 7.68e-03 8.13e-03 -2.28e-02 1.04e-02 -2.35e-02  
## 2432 -2.05e-02 -7.26e-03 1.45e-02 -2.70e-02 9.11e-03 6.27e-03 1.09e-02  
## 2433 -2.70e-03 5.12e-03 -1.50e-02 -1.35e-02 -1.73e-02 8.79e-03 1.67e-03  
## 2434 -1.84e-02 2.41e-02 -6.44e-03 3.24e-02 -1.23e-02 2.85e-02 1.49e-02  
## 2435 -5.20e-04 -1.69e-03 -2.50e-04 -3.67e-05 -8.48e-05 -2.39e-05 -3.72e-04  
## 2436 -1.40e-03 -4.22e-03 -6.84e-04 -1.67e-03 -1.55e-03 -2.17e-03 -1.49e-03  
## 2437 -2.56e-02 2.50e-04 1.29e-02 7.08e-03 1.60e-02 6.65e-03 -3.39e-02  
## 2438 -9.93e-03 9.71e-05 -4.43e-03 1.34e-04 -4.97e-03 -5.45e-04 1.47e-02  
## 2439 1.07e-05 -3.98e-05 -2.90e-05 -1.02e-04 -1.24e-05 3.73e-04 6.33e-06  
## 2440 -9.37e-03 2.71e-03 1.95e-02 -3.38e-03 -1.42e-02 -4.92e-03 1.22e-02  
## 2441 -1.50e-02 -5.25e-03 1.27e-02 -1.65e-02 9.22e-03 8.52e-03 1.12e-02  
## 2442 -1.40e-02 5.52e-03 2.26e-02 -4.27e-03 -9.35e-03 -5.64e-03 2.11e-02  
## 2443 -1.98e-02 -6.60e-03 1.21e-02 8.56e-03 -3.56e-02 9.27e-03 2.11e-02  
## 2444 -1.04e-02 7.77e-03 1.85e-02 5.81e-04 1.62e-02 -2.64e-03 8.86e-03  
## 2445 -6.40e-03 2.00e-02 6.86e-03 7.54e-03 -2.25e-02 9.65e-03 -2.38e-02  
## 2446 1.46e-05 -1.73e-04 6.52e-04 -1.62e-04 5.25e-06 -1.13e-04 7.08e-05  
## 2447 -1.69e-02 1.70e-02 2.68e-02 3.34e-02 -2.85e-02 -2.36e-02 1.36e-02  
## 2448 -1.23e-02 -2.12e-03 -9.18e-03 -3.77e-03 -6.18e-03 -1.11e-03 -1.08e-02  
## 2449 2.56e-02 2.69e-03 1.30e-02 4.95e-03 8.42e-03 9.53e-04 1.86e-02  
## 2450 -2.26e-03 7.18e-04 -9.55e-05 -1.61e-04 -9.80e-05 -4.61e-05 1.80e-04  
## 2451 1.42e-02 1.92e-02 2.68e-02 -7.33e-03 -1.14e-02 3.13e-02 -2.33e-02  
## 2452 1.90e-04 -5.08e-05 3.09e-07 1.68e-05 1.06e-05 1.23e-05 9.87e-07  
## 2453 -1.92e-02 3.46e-04 -7.15e-03 1.02e-02 -8.98e-03 1.02e-02 -8.25e-03  
## 2454 3.47e-03 -2.25e-03 1.59e-02 -1.63e-02 -6.17e-03 1.66e-02 -2.76e-03  
## 2455 -7.30e-04 -8.13e-03 -2.14e-03 -3.82e-03 -2.89e-03 -3.12e-03 -3.01e-03  
## 2456 8.06e-04 6.50e-04 -8.06e-05 -3.70e-04 -1.75e-04 -3.06e-04 -6.55e-05  
## 2457 1.55e-03 1.64e-03 3.21e-05 1.62e-04 2.53e-04 5.17e-04 6.67e-04  
## 2458 -1.78e-03 -9.81e-04 -1.87e-02 -1.73e-02 5.56e-03 -1.63e-02 6.94e-03  
## 2459 2.30e-02 -3.25e-03 1.09e-02 4.63e-03 1.58e-02 5.89e-03 3.34e-02  
## 2460 -1.28e-02 2.31e-04 -6.32e-03 -3.92e-03 -4.61e-03 -3.07e-03 -1.05e-02  
## 2461 -4.97e-03 -9.36e-03 -1.03e-02 -9.33e-03 -1.39e-02 -1.26e-02 -1.91e-02  
## 2462 1.83e-03 1.27e-03 -2.40e-04 -6.43e-04 -3.77e-04 -4.25e-04 -1.60e-04  
## 2463 5.01e-03 -7.57e-04 1.51e-02 1.17e-02 1.76e-02 -1.46e-02 -2.58e-03  
## 2464 -5.46e-03 -1.49e-03 3.13e-02 -5.12e-03 -1.47e-02 -1.11e-02 2.30e-02  
## 2465 -8.56e-04 -1.88e-03 -2.68e-04 -1.50e-04 -2.51e-04 -1.45e-04 -5.46e-04  
## 2466 3.65e-04 -1.38e-04 1.31e-05 -1.18e-05 6.71e-06 -1.31e-05 -1.52e-05  
## 2467 -7.92e-03 1.59e-04 2.05e-02 -1.43e-02 -2.82e-02 -1.46e-02 1.43e-02  
## 2468 -5.58e-03 -4.50e-03 4.16e-03 2.57e-03 5.21e-03 3.65e-03 -4.78e-03  
## 2469 -4.02e-04 -5.19e-03 -1.07e-03 -1.16e-03 -1.57e-03 -1.90e-03 -1.75e-03  
## 2470 7.71e-03 -6.23e-03 -1.58e-02 9.34e-03 -1.61e-02 1.22e-02 -7.20e-03  
## 2471 -1.67e-03 -1.17e-03 -5.44e-04 -5.73e-04 -4.26e-04 -4.93e-04 2.33e-03  
## 2472 4.81e-03 -2.91e-03 2.61e-03 2.64e-03 1.84e-03 1.49e-03 2.76e-03  
## 2473 -2.00e-02 -1.93e-02 1.03e-02 -4.49e-02 1.38e-02 1.17e-02 2.89e-02  
## 2474 -4.84e-03 2.50e-02 6.85e-03 1.04e-02 5.20e-03 8.69e-03 2.87e-03  
## 2475 -1.09e-03 -9.64e-04 8.99e-04 7.44e-04 -1.47e-03 7.43e-04 -1.38e-03  
## 2476 -2.99e-03 -9.58e-03 -2.78e-02 -1.15e-02 -2.84e-02 -9.59e-03 1.38e-02  
## 2477 7.48e-04 -2.54e-04 -2.07e-05 -4.74e-05 4.14e-05 -1.16e-04 -1.20e-04  
## 2478 -6.63e-03 2.88e-02 7.79e-03 1.04e-02 5.09e-03 8.84e-03 3.84e-03  
## 2479 -1.24e-02 2.28e-02 2.15e-02 3.94e-02 2.95e-02 -1.43e-02 2.75e-02  
## 2480 -6.71e-04 -4.83e-03 -9.57e-04 -1.19e-03 -1.36e-03 -1.89e-03 -1.54e-03  
## 2481 -1.50e-02 3.24e-03 -9.95e-03 -6.22e-03 2.68e-02 -5.58e-03 -1.57e-02  
## 2482 1.14e-02 -4.20e-03 1.60e-02 1.51e-02 1.83e-02 -2.40e-02 2.96e-02  
## 2483 -1.65e-03 8.15e-04 -4.94e-03 -4.30e-03 2.13e-03 -5.20e-03 4.02e-04  
## 2484 1.75e-02 -3.11e-02 -2.32e-02 -2.79e-02 4.88e-02 4.69e-02 -1.52e-02  
## 2485 -2.66e-03 -1.50e-03 2.01e-03 2.12e-03 2.64e-03 2.48e-03 -3.33e-03  
## 2486 6.50e-03 6.96e-04 1.44e-02 1.47e-02 1.98e-02 -1.01e-02 -6.22e-04  
## 2487 -1.21e-03 -2.48e-03 -3.62e-04 -7.12e-04 -6.99e-04 -1.34e-03 -1.11e-03  
## 2488 -6.94e-03 2.01e-02 -1.32e-02 4.04e-02 -2.24e-02 3.56e-02 2.80e-02  
## 2489 2.56e-02 -1.16e-02 -4.29e-02 4.92e-03 1.41e-02 6.08e-03 3.31e-02  
## 2490 -1.41e-02 -6.25e-03 -2.18e-02 -1.69e-02 -1.65e-02 -1.01e-02 -2.05e-02  
## 2491 -1.54e-03 -2.47e-03 -2.98e-04 -6.49e-04 -4.58e-04 -6.14e-04 -6.29e-04  
## 2492 -4.07e-04 -8.45e-04 -1.28e-04 2.06e-04 2.38e-04 5.65e-04 -3.92e-05  
## 2493 -4.15e-04 -6.07e-03 -1.69e-03 -1.91e-03 -1.81e-03 -2.42e-03 -2.51e-03  
## 2494 -4.27e-03 7.44e-03 -1.07e-02 7.03e-03 3.68e-03 -1.31e-02 2.13e-03  
## 2495 -1.52e-03 2.03e-03 -2.38e-03 -2.24e-03 -2.63e-03 3.12e-03 -3.50e-03  
## 2496 -2.27e-04 2.40e-04 2.94e-04 -2.00e-04 3.55e-04 -1.99e-04 -2.42e-04  
## 2497 3.22e-03 2.07e-03 -3.93e-04 -8.89e-04 -4.87e-04 -3.69e-04 -5.71e-05  
## 2498 -3.19e-04 1.63e-04 -7.24e-06 2.51e-05 2.71e-05 7.39e-05 6.65e-05  
## 2499 2.31e-04 3.47e-04 1.03e-05 -1.23e-06 1.80e-05 5.36e-05 7.89e-05  
## 2500 1.51e-02 1.30e-02 -1.00e-02 3.16e-02 -7.67e-03 -8.87e-03 -1.29e-02  
## 2501 -1.08e-03 -2.00e-03 -1.47e-04 -3.38e-04 -3.69e-04 -3.47e-04 -3.87e-04  
## 2502 -7.54e-04 2.49e-04 -1.74e-05 2.35e-05 -3.92e-05 1.47e-04 1.44e-04  
## 2503 -2.19e-04 8.09e-05 -3.73e-06 1.41e-05 -1.28e-06 1.53e-05 1.09e-05  
## 2504 9.60e-04 -1.74e-03 -1.81e-03 7.76e-03 -9.12e-04 -3.02e-03 8.54e-04  
## 2505 -6.01e-04 2.52e-04 -2.94e-05 2.12e-05 -1.37e-05 3.15e-05 3.81e-05  
## 2506 -1.45e-02 -2.24e-04 -5.89e-03 -3.38e-03 -4.34e-03 -2.75e-03 -1.03e-02  
## 2507 -1.84e-02 -8.23e-03 1.24e-02 -1.94e-02 -1.32e-02 1.28e-02 2.13e-02  
## 2508 -3.17e-03 2.66e-03 4.30e-03 -7.24e-03 -7.41e-03 -6.29e-03 6.21e-03  
## 2509 1.31e-03 1.03e-03 -1.23e-04 -5.20e-04 -2.97e-04 -4.28e-04 -7.95e-05  
## 2510 -1.10e-02 2.98e-03 2.11e-02 -4.07e-03 -1.01e-02 -2.92e-03 -1.94e-02  
## 2511 5.66e-04 -2.36e-03 -6.81e-04 -1.64e-03 -3.42e-04 -9.20e-04 3.06e-05  
## 2512 -7.77e-03 1.67e-06 -5.49e-03 -2.05e-04 -8.01e-03 -1.83e-03 8.12e-03  
## 2513 1.42e-02 3.45e-04 -7.21e-03 -3.49e-03 -5.66e-03 -2.26e-03 -1.02e-02  
## 2514 1.72e-02 -9.06e-03 -3.12e-02 4.24e-03 1.92e-02 9.72e-03 -1.77e-02  
## 2515 2.92e-02 -1.20e-02 9.29e-03 1.58e-03 -4.42e-02 7.03e-03 -3.19e-02  
## 2516 -8.43e-04 5.60e-04 -1.48e-03 -1.02e-03 -9.39e-04 -6.10e-04 -1.07e-03  
## 2517 -8.03e-03 -4.42e-03 -1.54e-02 -6.74e-03 -1.50e-02 -3.59e-03 -2.44e-02  
## 2518 6.53e-03 8.31e-03 6.06e-03 6.35e-03 -5.68e-03 -6.97e-03 -4.86e-03  
## 2519 1.02e-03 8.97e-04 -1.04e-04 -4.47e-04 -2.54e-04 -4.02e-04 -4.79e-05  
## 2520 3.73e-03 2.52e-03 -6.50e-04 -1.12e-03 -5.78e-04 -8.05e-04 7.07e-05  
## 2521 -1.58e-04 5.58e-04 2.10e-04 4.66e-04 -1.62e-03 5.56e-04 -1.81e-03  
## 2522 -8.45e-04 2.80e-02 8.51e-03 1.01e-02 8.91e-03 9.54e-03 1.18e-02  
## 2523 -1.30e-02 1.48e-04 -6.19e-03 -2.87e-03 -7.53e-03 -3.74e-03 -1.72e-02  
## 2524 1.58e-02 1.63e-03 -9.01e-03 -4.60e-03 -9.71e-03 -6.75e-03 1.95e-02  
## 2525 2.83e-02 -4.39e-02 -2.82e-02 4.16e-02 4.04e-02 -3.73e-02 -2.86e-02  
## 2526 -2.03e-02 -2.68e-02 1.04e-02 5.93e-03 -2.99e-02 -4.09e-02 -1.27e-02  
## 2527 -9.27e-05 3.61e-05 -1.25e-06 5.29e-06 9.24e-07 6.80e-06 6.77e-06  
## 2528 -2.22e-02 -7.81e-03 1.67e-02 1.17e-02 -9.99e-03 -1.91e-02 -3.33e-03  
## 2529 -1.13e-03 1.05e-03 2.74e-03 -2.01e-03 3.61e-03 3.53e-03 -1.61e-03  
## 2530 4.03e-04 -2.65e-03 -6.58e-04 -1.72e-03 -1.02e-03 -1.96e-03 4.62e-03  
## 2531 -8.51e-04 -1.00e-03 7.19e-04 9.64e-04 5.52e-04 7.44e-04 9.55e-04  
## 2532 -5.75e-02 2.47e-02 6.23e-03 6.74e-03 4.08e-03 5.15e-03 9.62e-03  
## 2533 -4.28e-04 2.10e-03 3.76e-04 1.16e-03 -7.55e-05 6.77e-04 -5.05e-06  
## 2534 -7.27e-04 3.53e-03 8.14e-03 9.94e-03 1.02e-02 -7.60e-03 -8.53e-03  
## 2535 -2.50e-03 8.43e-04 -2.37e-04 -3.99e-04 -2.40e-04 -1.42e-04 -1.58e-05  
## 2536 9.83e-05 -3.75e-04 -1.00e-04 -2.80e-04 -5.90e-05 -1.64e-04 -7.59e-06  
## 2537 -9.79e-04 4.60e-04 2.44e-03 -1.84e-03 -1.09e-03 3.09e-03 -1.08e-03  
## 2538 -6.82e-03 1.28e-02 7.98e-03 9.19e-03 1.03e-02 -9.66e-03 -7.81e-03  
## 2539 -1.70e-02 1.16e-02 -7.18e-03 3.22e-02 -1.30e-02 -8.13e-03 1.55e-02  
## 2540 2.17e-02 1.39e-02 5.00e-03 -2.18e-02 -1.74e-02 1.51e-02 -1.77e-02  
## 2541 1.89e-03 -1.30e-03 -2.43e-03 1.49e-03 1.79e-03 1.58e-03 2.54e-03  
## 2542 -5.68e-03 4.61e-03 7.06e-03 -1.56e-02 9.09e-03 -1.38e-02 -1.39e-02  
## 2543 3.40e-05 1.53e-04 3.47e-04 2.46e-04 -4.40e-04 2.98e-04 -2.92e-04  
## 2544 -2.48e-02 1.15e-03 1.39e-02 7.19e-03 1.03e-02 4.21e-03 1.77e-02  
## 2545 4.21e-05 -6.56e-03 -1.91e-03 -2.30e-03 -2.02e-03 -2.22e-03 -2.64e-03  
## 2546 1.42e-03 9.79e-04 -2.05e-04 -5.90e-04 -2.84e-04 -4.06e-04 -1.19e-04  
## 2547 -6.21e-04 -5.04e-03 -1.20e-03 -1.57e-03 -1.48e-03 -1.74e-03 -2.32e-03  
## 2548 4.29e-03 -1.91e-03 -1.66e-04 -3.14e-04 -2.38e-04 -7.61e-04 -5.93e-04  
## 2549 -4.98e-04 -7.40e-03 -2.59e-03 -3.96e-03 -2.80e-03 -4.43e-03 -4.22e-03  
## 2550 -6.45e-03 2.11e-02 7.75e-03 9.17e-03 -2.28e-02 8.63e-03 5.15e-03  
## 2551 -5.22e-03 1.55e-02 6.97e-03 -2.40e-02 6.29e-03 1.10e-02 -2.88e-02  
## 2552 7.78e-03 -7.61e-03 1.42e-02 -1.94e-02 -1.80e-02 7.83e-03 1.32e-02  
## 2553 -5.07e-03 2.57e-02 7.04e-03 1.08e-02 5.42e-03 9.02e-03 3.21e-03  
## 2554 -8.07e-04 -1.44e-03 -1.96e-04 -1.47e-04 -2.35e-04 -2.28e-04 -4.48e-04  
## 2555 2.45e-05 -2.42e-04 -2.81e-05 -1.61e-04 6.67e-06 -9.89e-05 4.40e-05  
## 2556 -1.49e-02 1.87e-02 2.51e-02 3.96e-02 -2.27e-02 -1.65e-02 -3.27e-02  
## 2557 1.75e-04 -3.41e-04 -3.02e-04 -9.43e-04 -6.45e-04 2.46e-03 -7.54e-04  
## 2558 -8.47e-04 8.74e-04 2.15e-03 2.48e-03 2.94e-03 -1.32e-03 -8.75e-04  
## 2559 -1.20e-02 8.15e-03 2.21e-02 -3.77e-03 1.87e-02 -6.06e-03 1.08e-02  
## 2560 -3.47e-02 -2.30e-02 -1.17e-02 -1.54e-02 2.78e-02 2.95e-02 2.30e-02  
## 2561 9.08e-03 -2.76e-03 -5.80e-04 -1.47e-04 3.93e-05 9.64e-04 6.16e-05  
## 2562 -4.10e-03 -3.45e-03 2.72e-03 2.19e-03 1.77e-03 1.50e-03 3.20e-03  
## 2563 -7.42e-03 4.26e-03 1.80e-02 -2.15e-02 2.67e-02 -1.90e-02 2.34e-02  
## 2564 -3.36e-04 -7.07e-04 -7.69e-05 3.31e-04 2.32e-04 5.34e-04 1.12e-04  
## 2565 -2.71e-03 9.17e-04 -1.85e-04 -2.85e-04 -2.67e-04 -1.40e-05 1.92e-04  
## 2566 -1.05e-02 -1.22e-03 -1.25e-02 -4.67e-03 -1.64e-02 -6.95e-03 1.14e-02  
## 2567 -1.51e-02 -2.58e-03 1.35e-02 1.30e-02 -3.82e-03 -7.18e-03 1.79e-03  
## 2568 -2.67e-03 1.00e-03 -1.28e-04 -2.35e-04 -2.45e-04 1.47e-06 2.41e-04  
## 2569 7.48e-03 -3.60e-02 -7.51e-03 -1.02e-02 -9.15e-03 -1.26e-02 -1.51e-02  
## 2570 -7.27e-03 -3.11e-03 -1.56e-02 -4.60e-03 -1.78e-02 -5.82e-03 1.20e-02  
## 2571 -9.55e-04 -2.85e-03 -5.50e-04 -9.15e-04 -9.19e-04 -1.32e-03 -1.41e-03  
## 2572 -1.47e-02 -8.54e-03 -4.78e-03 9.72e-03 -5.16e-03 -1.09e-02 -1.08e-03  
## 2573 -9.53e-03 1.91e-03 -2.20e-03 6.10e-04 -5.44e-03 -2.18e-03 7.46e-03  
## 2574 2.55e-02 1.57e-02 -1.76e-02 -9.96e-03 2.08e-02 3.57e-02 8.80e-03  
## 2575 7.68e-04 7.54e-04 3.05e-06 -1.90e-04 -1.83e-04 -3.14e-04 7.63e-05  
## 2576 1.40e-02 -1.02e-02 1.91e-02 9.18e-03 2.20e-02 -4.06e-02 -1.21e-02  
## 2577 -5.10e-04 -5.54e-03 -1.43e-03 -1.87e-03 -1.58e-03 -1.93e-03 -2.37e-03  
## 2578 2.55e-02 -1.94e-02 -3.97e-02 3.14e-03 -3.53e-02 1.13e-02 -1.59e-02  
## 2579 2.10e-03 -2.07e-03 -2.62e-03 1.42e-03 1.58e-03 1.32e-03 2.89e-03  
## 2580 -3.63e-03 3.74e-03 -3.59e-03 -4.68e-03 2.80e-03 3.24e-03 -6.94e-03  
## 2581 -9.90e-05 -1.02e-04 1.65e-06 4.26e-05 2.93e-05 6.63e-05 -7.93e-07  
## 2582 -9.01e-04 -1.92e-03 -2.29e-04 -4.58e-04 -6.78e-04 -1.11e-03 -7.65e-04  
## 2583 -3.97e-04 -1.06e-03 -1.04e-04 -2.60e-05 -1.08e-04 -1.67e-05 -2.41e-04  
## 2584 -3.46e-03 1.30e-02 6.16e-03 9.97e-03 5.03e-03 -1.56e-02 2.86e-03  
## 2585 -1.10e-02 -5.52e-04 -5.40e-03 -1.79e-03 -3.83e-03 -3.27e-04 -8.42e-03  
## 2586 -2.19e-02 -8.89e-03 -2.35e-02 8.88e-03 -2.25e-02 7.22e-03 2.40e-02  
## 2587 3.52e-03 7.57e-04 -9.59e-03 1.07e-02 1.76e-02 9.82e-03 -6.09e-03  
## 2588 -5.36e-04 -5.34e-03 -1.33e-03 -1.74e-03 -1.81e-03 -2.07e-03 -2.35e-03  
## 2589 2.80e-03 1.95e-03 -4.70e-04 -1.03e-03 -6.05e-04 -6.94e-04 -2.42e-05  
## 2590 7.29e-04 -1.28e-03 -1.59e-03 6.03e-03 -7.18e-04 -2.63e-03 3.65e-04  
## 2591 3.89e-04 9.87e-04 8.02e-04 8.49e-04 -2.73e-04 -3.74e-04 -3.21e-04  
## 2592 -6.27e-03 1.74e-02 -1.39e-02 8.99e-03 7.26e-03 1.04e-02 -1.72e-02  
## 2593 5.10e-04 -2.38e-03 -1.63e-03 -5.07e-03 -1.84e-03 7.19e-03 -9.44e-04  
## 2594 -2.04e-02 -6.01e-03 1.30e-02 9.58e-03 -3.58e-02 9.82e-03 2.16e-02  
## 2595 6.95e-03 -4.33e-03 4.15e-03 3.42e-03 4.52e-03 2.75e-03 -8.51e-03  
## 2596 -1.92e-02 7.16e-04 1.24e-02 1.22e-02 1.10e-02 9.31e-03 1.76e-02  
## 2597 8.05e-05 -1.79e-04 -1.78e-04 1.41e-03 -2.48e-04 -5.27e-04 1.88e-03  
## 2598 1.09e-03 -3.02e-03 -1.90e-03 8.63e-03 -1.99e-03 -5.62e-03 6.54e-04  
## 2599 5.60e-06 -3.69e-05 -2.65e-06 -2.40e-05 -2.68e-07 -1.27e-05 6.13e-06  
## 2600 1.38e-02 -4.39e-03 1.52e-02 8.65e-03 -2.10e-02 1.22e-02 -1.14e-02  
## 2601 -1.06e-03 -2.46e-03 -4.12e-04 5.56e-05 2.02e-04 1.53e-03 2.48e-04  
## 2602 1.30e-02 -1.48e-02 -2.03e-02 -2.82e-02 1.71e-02 1.19e-02 -1.46e-02  
## 2603 1.33e-02 -3.72e-04 -6.96e-03 -3.45e-03 -5.27e-03 -2.07e-03 -1.03e-02  
## 2604 -1.04e-02 1.83e-02 -2.13e-02 3.65e-02 -1.72e-02 4.17e-02 -1.37e-02  
## 2605 -5.96e-03 5.26e-03 1.79e-02 -1.86e-02 1.95e-02 -2.03e-02 8.72e-03  
## 2606 1.09e-03 -1.30e-02 -2.57e-02 -2.74e-02 4.41e-02 -2.01e-02 -1.88e-02  
## 2607 1.86e-02 -7.33e-04 -1.14e-02 -8.40e-03 -9.25e-03 -6.18e-03 -1.57e-02  
## 2608 2.09e-02 1.03e-02 -2.13e-02 9.14e-03 1.06e-02 -2.15e-02 -1.81e-02  
## 2609 -1.51e-02 4.73e-03 2.15e-02 -3.82e-03 -3.95e-03 -3.15e-03 -1.00e-02  
## 2610 -7.30e-03 1.80e-02 -5.91e-02 2.65e-02 -5.38e-02 3.52e-02 -6.49e-02  
## 2611 -3.06e-03 -2.99e-03 1.99e-03 2.42e-03 1.61e-03 1.25e-03 2.72e-03  
## 2612 1.17e-02 -4.60e-02 -1.42e-02 -1.84e-02 -8.86e-03 -1.52e-02 -6.72e-03  
## 2613 1.33e-05 2.67e-02 7.68e-03 1.28e-02 1.10e-02 1.04e-02 1.01e-02  
## 2614 -5.65e-04 -1.38e-03 -1.66e-04 -1.13e-05 -1.05e-04 -1.01e-04 -2.70e-04  
## 2615 -1.30e-02 2.03e-02 2.21e-02 -7.41e-03 2.00e-02 3.38e-02 1.02e-02  
## 2616 -2.81e-03 1.89e-03 5.23e-03 -1.39e-02 -1.40e-02 -1.26e-02 -1.66e-02  
## 2617 3.00e-03 -3.17e-03 1.70e-03 -3.71e-03 1.15e-03 1.33e-03 1.45e-03  
## 2618 1.50e-02 2.92e-02 9.59e-03 1.07e-02 6.90e-03 8.06e-03 5.54e-03  
## 2619 2.28e-02 -1.32e-02 1.16e-02 -3.29e-02 8.81e-03 9.63e-03 1.38e-02  
## 2620 1.81e-02 7.21e-03 -1.67e-02 9.31e-03 -2.00e-02 -1.92e-02 5.51e-03  
## 2621 3.94e-03 -5.46e-03 -6.56e-03 -1.24e-02 8.26e-03 6.88e-03 8.80e-03  
## 2622 -8.83e-04 -9.99e-04 -3.15e-03 -3.30e-03 -3.01e-03 3.80e-03 3.73e-03  
## 2623 3.80e-03 -1.12e-03 -1.48e-04 1.61e-04 1.91e-04 4.40e-04 -1.55e-04  
## 2624 -1.17e-02 -3.05e-02 -2.71e-02 -2.98e-02 7.54e-03 -3.12e-02 1.24e-02  
## 2625 1.66e-02 3.64e-04 -1.03e-02 -9.84e-03 -9.70e-03 -7.77e-03 -1.47e-02  
## 2626 7.32e-04 -9.65e-04 4.56e-03 -1.80e-03 4.12e-03 -2.34e-03 4.00e-03  
## 2627 -8.42e-03 3.61e-03 -2.16e-03 1.66e-03 1.28e-02 -7.15e-04 6.81e-03  
## 2628 -3.29e-03 6.02e-03 -3.12e-03 4.27e-03 -3.09e-03 5.00e-03 4.40e-03  
## 2629 7.56e-04 -2.90e-03 -1.07e-03 -2.74e-03 5.06e-03 -3.18e-03 -2.78e-03  
## 2630 1.30e-02 1.21e-02 -7.25e-03 -5.21e-03 -1.02e-02 2.95e-02 1.85e-02  
## 2631 -8.45e-04 2.58e-04 -9.96e-06 -3.83e-05 -4.12e-05 -2.92e-05 3.95e-05  
## 2632 2.09e-04 -1.87e-03 -5.07e-04 -1.74e-03 -2.53e-04 -1.40e-03 -1.06e-04  
## 2633 -3.68e-06 -4.16e-04 1.17e-03 -6.09e-04 -9.27e-04 -6.85e-04 1.07e-03  
## 2634 4.67e-02 2.47e-02 2.08e-02 -3.24e-02 1.54e-02 2.92e-02 4.10e-03  
## 2635 -3.91e-02 -3.30e-02 -1.53e-02 4.20e-02 -7.43e-03 -1.58e-02 -1.38e-03  
## 2636 -1.67e-02 -2.12e-02 -2.10e-02 9.34e-03 -2.00e-02 -2.62e-02 2.50e-02  
## 2637 -2.52e-03 2.14e-03 -1.45e-02 -1.30e-02 3.77e-03 -1.54e-02 -2.58e-04  
## 2638 3.74e-02 -2.67e-04 -2.74e-02 -1.84e-02 2.54e-02 -1.63e-02 -4.18e-02  
## 2639 -1.22e-02 -3.88e-03 -1.57e-02 -8.86e-03 -1.47e-02 -7.74e-03 -2.64e-02  
## 2640 -5.89e-03 6.01e-04 3.61e-02 -1.55e-02 4.22e-02 -1.61e-02 -1.26e-02  
## 2641 -9.01e-05 -6.33e-03 -1.67e-03 -1.97e-03 -1.85e-03 -1.91e-03 -2.72e-03  
## 2642 -1.30e-03 1.42e-03 -1.06e-03 1.74e-03 -7.17e-04 -6.67e-04 -7.50e-04  
## 2643 -1.62e-04 -8.59e-03 -2.38e-03 -4.06e-03 -3.49e-03 -3.33e-03 -3.14e-03  
## 2644 1.23e-02 9.34e-03 6.40e-03 -1.35e-02 -1.58e-02 6.38e-03 2.08e-03  
## 2645 -1.50e-03 5.00e-04 -4.08e-05 -1.21e-04 -1.22e-04 -2.60e-05 9.99e-05  
## 2646 1.95e-02 -1.71e-02 1.26e-02 -3.42e-02 -3.22e-02 9.67e-03 1.56e-02  
## 2647 2.08e-02 3.86e-04 -1.23e-02 -5.39e-03 -1.63e-02 -9.20e-03 1.06e-02  
## 2648 -5.75e-03 2.85e-02 5.96e-03 1.00e-02 8.92e-03 1.08e-02 1.17e-02  
## 2649 6.99e-03 -7.57e-03 -8.75e-03 2.12e-03 -1.01e-02 2.00e-03 4.07e-03  
## 2650 1.04e-02 2.88e-03 -3.41e-03 -4.60e-04 -8.13e-03 -3.68e-03 8.15e-03  
## 2651 -1.70e-02 5.51e-03 2.36e-02 -5.32e-03 -7.99e-03 -5.57e-03 2.01e-02  
## 2652 -3.85e-03 7.96e-03 4.45e-03 6.38e-03 5.27e-03 -5.78e-03 5.36e-03  
## 2653 1.68e-02 1.57e-02 8.18e-03 -2.03e-02 7.09e-03 8.93e-03 8.24e-03  
## 2654 -3.44e-04 -6.96e-04 -5.34e-05 4.06e-04 2.32e-04 5.95e-04 1.08e-04  
## 2655 -1.17e-03 -1.27e-03 -1.70e-03 8.18e-04 5.87e-04 5.19e-04 9.10e-04  
## 2656 -4.85e-03 1.20e-02 7.09e-03 -1.50e-02 3.85e-03 8.44e-03 2.15e-03  
## 2657 2.88e-04 6.37e-04 6.77e-04 6.21e-04 8.70e-04 6.54e-04 -1.01e-03  
## 2658 -6.21e-03 -2.09e-03 -6.58e-03 -4.14e-03 2.39e-02 -1.21e-02 1.85e-02  
## 2659 2.22e-03 -5.05e-03 -4.52e-03 -9.43e-03 -4.28e-03 1.08e-02 -2.44e-03  
## 2660 1.70e-03 -2.20e-03 -3.23e-03 -6.87e-03 8.54e-03 7.56e-03 -5.96e-03  
## 2661 -1.55e-02 -1.51e-02 -1.29e-02 -1.65e-02 1.39e-02 -1.71e-02 1.80e-02  
## 2662 2.51e-03 -2.82e-03 1.58e-03 -3.48e-03 1.22e-03 1.09e-03 1.27e-03  
## 2663 -2.50e-04 1.57e-03 1.12e-04 7.57e-04 -1.60e-04 4.33e-04 -1.75e-04  
## 2664 -1.12e-03 2.87e-02 6.76e-03 7.72e-03 9.11e-03 8.50e-03 9.86e-03  
## 2665 -1.69e-02 1.83e-02 2.56e-02 3.35e-02 -1.17e-02 -9.18e-03 -2.16e-02  
## 2666 3.69e-03 -4.97e-03 1.22e-02 -7.84e-03 1.10e-02 -8.98e-03 -6.34e-03  
## 2667 2.15e-03 -3.46e-03 -3.94e-03 8.65e-03 1.23e-02 -1.03e-02 -3.04e-03  
## 2668 -6.20e-04 -1.57e-03 -2.65e-04 -2.01e-04 -1.31e-04 -9.04e-05 -5.03e-04  
## 2669 -1.36e-02 1.28e-02 -1.13e-02 3.35e-02 -1.54e-02 -9.72e-03 1.41e-02  
## 2670 -8.59e-04 -7.38e-03 -2.31e-03 -3.72e-03 -2.92e-03 -4.57e-03 -4.05e-03  
## 2671 4.17e-04 3.92e-04 -3.26e-05 -1.93e-04 -1.25e-04 -1.96e-04 -6.63e-05  
## 2672 -8.99e-04 -1.93e-03 -2.51e-04 -1.36e-04 -2.36e-04 -1.34e-04 -5.29e-04  
## 2673 1.57e-02 3.13e-04 -9.74e-03 -7.21e-03 -7.37e-03 -6.28e-03 -1.37e-02  
## 2674 -7.32e-04 -1.71e-03 -3.01e-04 -2.27e-04 -2.23e-04 -1.79e-04 -5.13e-04  
## 2675 -1.40e-02 -3.13e-04 -6.80e-03 -4.14e-03 -5.51e-03 -2.60e-03 -1.12e-02  
## 2676 9.65e-03 -5.43e-03 4.13e-03 3.04e-03 2.44e-03 1.80e-03 5.21e-03  
## 2677 -5.00e-05 -2.07e-04 5.43e-04 -3.42e-04 -4.40e-04 -3.71e-04 4.77e-04  
## 2678 -3.64e-02 -4.39e-02 -1.02e-02 -1.54e-02 -7.34e-03 -1.20e-02 -4.10e-03  
## 2679 -1.78e-02 9.89e-03 -9.49e-03 3.00e-02 -6.15e-03 -6.44e-03 -1.13e-02  
## 2680 6.24e-04 -1.39e-03 -1.87e-03 7.18e-03 1.02e-02 -5.52e-03 -9.52e-04  
## 2681 -1.06e-06 4.32e-06 3.66e-06 1.10e-05 5.99e-06 -3.74e-05 1.18e-05  
## 2682 -1.28e-02 1.78e-03 -9.91e-03 -4.16e-03 2.60e-02 -2.35e-03 -1.39e-02  
## 2683 -1.67e-02 -1.14e-02 1.30e-02 1.20e-02 -1.51e-02 -2.21e-02 2.44e-02  
## 2684 -1.60e-02 5.13e-03 2.41e-02 -4.37e-03 -5.35e-03 -2.96e-03 -1.10e-02  
## 2685 -5.04e-05 -2.20e-03 -3.14e-04 -1.82e-03 -6.49e-05 -1.48e-03 1.84e-04  
## 2686 1.53e-02 5.94e-04 -7.93e-03 -2.92e-03 -8.36e-03 -2.73e-03 1.76e-02  
## 2687 -4.98e-03 1.64e-02 6.14e-03 -1.85e-02 8.44e-03 1.41e-02 9.75e-03  
## 2688 -5.25e-03 1.24e-02 6.76e-03 -1.43e-02 3.55e-03 7.45e-03 1.18e-03  
## 2689 3.26e-03 2.37e-03 -1.63e-04 -5.06e-04 -4.28e-04 -4.50e-04 5.28e-04  
## 2690 -4.57e-04 -4.69e-03 -1.01e-03 -1.18e-03 -1.24e-03 -1.65e-03 -1.69e-03  
## 2691 1.61e-03 5.10e-04 -1.42e-03 -1.45e-03 -1.48e-03 -1.43e-03 1.69e-03  
## 2692 6.14e-04 6.33e-04 -3.03e-03 1.42e-03 2.15e-03 1.76e-03 -2.33e-03  
## 2693 -5.06e-03 -4.87e-03 3.59e-03 3.13e-03 2.23e-03 2.15e-03 4.85e-03  
## 2694 5.98e-05 -6.44e-03 -1.88e-03 -2.26e-03 -1.99e-03 -2.18e-03 -2.63e-03  
## 2695 1.21e-02 -1.35e-02 -2.01e-02 9.76e-03 1.58e-02 -3.61e-02 -2.20e-02  
## 2696 -2.88e-04 8.24e-03 8.70e-03 9.22e-03 6.50e-03 6.13e-03 4.73e-03  
## 2697 1.22e-03 1.36e-03 -1.24e-05 -2.25e-05 1.91e-04 4.09e-04 4.17e-04  
## 2698 -4.40e-03 2.47e-02 6.36e-03 1.01e-02 5.01e-03 8.68e-03 2.37e-03  
## 2699 -3.28e-02 -3.85e-02 -8.58e-03 -1.09e-02 -4.23e-03 -9.57e-03 -3.92e-03  
## 2700 -3.33e-03 6.38e-03 3.41e-03 4.21e-03 -3.26e-03 3.93e-03 4.02e-03  
## 2701 -2.77e-03 1.04e-03 -2.19e-04 -3.11e-04 -3.23e-04 -4.23e-05 1.93e-04  
## 2702 1.60e-02 5.27e-03 -9.27e-03 -9.37e-03 2.71e-02 -7.85e-03 -1.74e-02  
## 2703 1.08e-02 1.71e-02 -4.48e-03 -2.02e-03 1.91e-02 2.57e-02 8.78e-03  
## 2704 -1.06e-02 8.58e-03 -5.56e-03 2.62e-02 -8.49e-03 -3.30e-03 1.14e-02  
## 2705 -2.43e-03 2.06e-04 -2.06e-02 4.95e-03 -1.83e-02 7.23e-03 -1.65e-02  
## 2706 -9.66e-04 -2.12e-03 -3.43e-04 -1.43e-04 -1.19e-04 -1.90e-04 -5.93e-04  
## 2707 2.89e-02 -4.77e-03 -1.96e-02 -1.47e-02 -2.61e-02 -1.97e-02 7.80e-03  
## 2708 3.95e-03 4.34e-04 8.27e-03 -1.67e-02 6.99e-03 9.33e-03 3.91e-03  
## 2709 -4.89e-05 -8.97e-03 -2.63e-03 -4.40e-03 -3.44e-03 -3.43e-03 -3.11e-03  
## 2710 2.70e-03 -9.66e-04 1.15e-02 1.09e-02 -4.24e-03 -6.65e-03 1.74e-02  
## 2711 9.77e-03 -6.13e-03 -1.45e-03 -3.57e-03 -2.70e-03 -4.00e-03 -2.94e-03  
## 2712 -6.61e-03 2.24e-02 7.33e-03 1.01e-02 5.26e-03 7.01e-03 2.97e-03  
## 2713 -4.62e-03 -5.14e-03 2.55e-03 2.15e-03 1.64e-03 1.49e-03 3.75e-03  
## 2714 3.04e-04 1.36e-03 1.52e-03 1.38e-03 1.72e-03 1.31e-03 -1.47e-03  
## 2715 -1.03e-03 1.20e-03 1.17e-03 -8.54e-04 1.42e-03 -7.38e-04 -9.21e-04  
## 2716 -3.54e-02 -4.76e-02 -1.37e-02 -1.82e-02 -9.56e-03 -1.34e-02 -5.21e-03  
## 2717 1.48e-02 1.41e-04 -6.86e-03 -2.42e-03 -8.41e-03 -2.71e-03 -1.74e-02  
## 2718 1.04e-04 1.27e-04 3.16e-06 -5.99e-05 -3.74e-05 -7.50e-05 -1.26e-05  
## 2719 -9.52e-04 -4.65e-03 -1.04e-03 -1.54e-03 -1.33e-03 -1.83e-03 -1.97e-03  
## 2720 1.58e-03 1.81e-03 -1.80e-05 1.82e-05 1.60e-04 5.00e-04 5.07e-04  
## 2721 4.08e-03 1.07e-02 1.02e-02 1.21e-02 8.87e-03 1.01e-02 6.81e-03  
## 2722 -1.56e-04 -2.34e-04 7.68e-06 1.11e-04 6.73e-05 1.73e-04 4.01e-05  
## 2723 -1.06e-02 2.71e-03 -3.07e-03 6.33e-04 -7.11e-03 -2.83e-03 9.00e-03  
## 2724 1.31e-03 -5.85e-03 -1.38e-02 -1.45e-02 -9.95e-03 1.39e-02 -1.01e-02  
## 2725 -1.13e-02 1.24e-03 -4.04e-03 -1.63e-03 -5.68e-03 -2.70e-03 -1.42e-02  
## 2726 4.68e-03 -6.27e-03 -8.83e-03 1.13e-02 1.80e-02 -1.38e-02 -3.42e-03  
## 2727 2.31e-03 -5.24e-03 -3.89e-03 -8.30e-03 -4.50e-03 7.39e-03 -3.69e-03  
## 2728 -2.23e-04 -5.32e-03 -9.73e-04 -1.16e-03 -1.53e-03 -1.43e-03 -1.85e-03  
## 2729 -7.29e-03 3.23e-02 7.46e-03 8.69e-03 8.08e-03 1.06e-02 -3.36e-02  
## 2730 -5.12e-04 -5.79e-03 -1.53e-03 -2.01e-03 -1.81e-03 -2.20e-03 -2.35e-03  
## 2731 5.46e-03 6.39e-03 1.68e-02 8.81e-03 1.05e-02 3.37e-03 1.26e-02  
## 2732 2.42e-03 2.86e-03 -9.46e-03 1.07e-02 1.43e-02 5.61e-03 1.82e-02  
## 2733 1.63e-03 -1.53e-03 1.23e-02 8.98e-03 -2.83e-03 -7.45e-03 -6.94e-05  
## 2734 -1.82e-03 2.80e-03 2.08e-03 -1.68e-03 -1.35e-03 3.59e-03 -1.65e-03  
## 2735 1.00e-03 6.76e-04 1.20e-02 1.00e-02 1.37e-02 -7.68e-03 -1.11e-03  
## 2736 8.49e-03 -4.77e-02 -1.28e-02 -2.01e-02 -9.33e-03 -1.67e-02 -5.29e-03  
## 2737 1.06e-02 1.59e-03 -3.68e-03 6.02e-04 -7.35e-03 -2.07e-03 8.90e-03  
## 2738 -6.63e-03 -4.56e-03 4.93e-03 3.22e-03 6.16e-03 3.91e-03 -4.46e-03  
## 2739 -1.16e-03 -6.58e-04 -1.51e-04 -3.89e-04 -2.86e-05 -2.19e-04 8.52e-05  
## 2740 -1.58e-02 -3.15e-03 1.30e-02 1.24e-02 -4.40e-03 -8.32e-03 4.97e-04  
## 2741 -8.42e-03 5.51e-04 -3.02e-03 4.42e-04 -4.11e-03 9.49e-05 1.21e-02  
## 2742 -1.43e-04 -1.47e-04 2.05e-05 9.69e-05 5.89e-05 1.07e-04 3.84e-05  
## 2743 -3.55e-04 -7.88e-03 -2.28e-03 -3.97e-03 -3.18e-03 -3.31e-03 -3.03e-03  
## 2744 -4.70e-03 -7.77e-03 -7.84e-03 -5.02e-03 -1.43e-02 -1.12e-02 2.05e-02  
## 2745 1.12e-02 1.80e-02 7.93e-03 9.30e-03 -9.70e-03 1.15e-02 -9.15e-03  
## 2746 -3.46e-04 -5.25e-03 -1.55e-03 -1.84e-03 -1.23e-03 -1.73e-04 -1.18e-03  
## 2747 1.18e-03 1.05e-02 1.12e-02 1.11e-02 7.60e-03 7.88e-03 8.25e-03  
## 2748 -3.41e-03 2.08e-02 -3.06e-02 3.65e-02 -2.57e-02 4.90e-02 -1.54e-02  
## 2749 -1.10e-02 1.58e-03 -2.88e-03 -1.00e-03 -7.29e-03 -3.22e-03 8.37e-03  
## 2750 5.28e-03 -1.03e-02 7.30e-03 -1.39e-02 -1.56e-02 -1.48e-02 6.16e-03  
## 2751 -1.06e-03 -2.23e-03 -4.30e-04 -7.72e-04 -7.01e-04 -1.33e-03 -1.04e-03  
## 2752 4.40e-04 2.72e-02 6.98e-03 8.35e-03 8.23e-03 8.59e-03 1.03e-02  
## 2753 3.97e-04 -2.42e-04 3.35e-03 -1.43e-03 -1.64e-03 2.51e-03 2.68e-03  
## 2754 -1.86e-04 -6.30e-03 -1.74e-03 -2.18e-03 -1.92e-03 -2.20e-03 -2.51e-03  
## 2755 -5.83e-05 -6.21e-03 -1.74e-03 -2.09e-03 -1.67e-03 -1.85e-03 -2.70e-03  
## 2756 -1.37e-03 -3.48e-03 -5.86e-04 -1.05e-03 -6.58e-04 -4.38e-04 -8.27e-04  
## 2757 -2.02e-03 -1.19e-02 -1.04e-02 -7.35e-03 -1.20e-02 -7.58e-03 -1.68e-02  
## 2758 -1.50e-02 -6.42e-03 1.15e-02 1.32e-02 -6.69e-03 -1.03e-02 -1.44e-03  
## 2759 -5.77e-03 -1.77e-03 -1.73e-03 -3.15e-03 3.70e-03 3.11e-03 3.55e-03  
## 2760 5.26e-03 3.11e-04 -4.38e-03 -3.85e-03 -5.40e-03 -4.84e-03 8.25e-04  
## 2761 -2.17e-02 1.05e-03 1.43e-02 1.01e-02 1.07e-02 8.30e-03 1.83e-02  
## 2762 1.18e-03 -5.16e-03 -1.58e-03 -4.02e-03 -1.48e-03 -3.55e-03 -5.66e-04  
## 2763 6.33e-03 -6.05e-03 1.36e-02 1.07e-02 -1.36e-02 -1.75e-02 1.35e-02  
## 2764 -6.19e-04 -2.97e-03 -6.36e-04 -2.58e-04 -3.60e-04 1.01e-04 -8.20e-04  
## 2765 5.05e-03 3.18e-02 7.09e-03 9.72e-03 9.18e-03 1.13e-02 1.44e-02  
## 2766 -1.25e-02 5.25e-04 -7.48e-03 -2.27e-03 -1.12e-02 -4.59e-03 1.05e-02  
## 2767 -4.45e-03 1.04e-02 5.90e-03 -1.90e-02 -1.97e-02 9.85e-03 9.55e-03  
## 2768 -4.85e-03 -5.57e-03 3.37e-03 2.44e-03 -7.55e-03 3.08e-03 7.64e-03  
## 2769 1.12e-03 5.08e-03 8.17e-03 9.24e-03 -1.73e-02 7.20e-03 6.74e-03  
## 2770 -3.33e-03 1.37e-02 6.17e-03 1.02e-02 5.30e-03 -1.69e-02 3.29e-03  
## 2771 -3.47e-02 -3.79e-02 -3.58e-02 3.72e-02 -2.70e-02 4.87e-02 -1.29e-02  
## 2772 2.08e-02 4.42e-03 2.47e-02 -6.82e-03 -8.76e-03 -3.20e-03 -1.32e-02  
## 2773 -4.69e-04 -5.70e-03 -1.51e-03 -1.97e-03 -1.71e-03 -2.07e-03 -2.40e-03  
## 2774 -1.93e-02 -9.40e-04 -2.35e-02 1.36e-02 1.24e-02 1.43e-02 1.90e-02  
## 2775 -1.25e-02 6.92e-04 -6.35e-03 -1.97e-03 -7.01e-03 -3.58e-03 1.65e-02  
## 2776 1.39e-02 -6.59e-03 4.39e-02 3.60e-02 4.19e-02 3.09e-02 5.63e-02  
## 2777 5.05e-03 -7.17e-03 -2.62e-02 8.08e-03 1.16e-02 -3.11e-02 1.52e-02  
## 2778 5.13e-03 3.02e-03 4.07e-03 -4.25e-03 -3.15e-03 -2.64e-03 -3.29e-03  
## 2779 7.74e-03 -9.81e-03 -1.35e-02 -2.11e-02 1.30e-02 8.97e-03 1.85e-02  
## 2780 1.25e-02 1.93e-02 -6.56e-03 -4.18e-03 2.14e-02 2.79e-02 9.49e-03  
## 2781 1.20e-02 -1.06e-02 -1.67e-02 1.42e-02 -9.04e-03 -1.28e-02 -2.60e-03  
## 2782 -2.30e-03 4.70e-03 -4.70e-03 -3.79e-03 2.76e-03 5.00e-03 1.47e-03  
## 2783 -2.85e-03 9.11e-04 -3.00e-04 -4.27e-04 -2.73e-04 -6.21e-05 -9.30e-05  
## 2784 6.40e-04 -7.99e-04 -1.18e-03 -2.83e-03 3.89e-03 3.87e-03 3.95e-03  
## 2785 1.75e-02 -4.27e-03 1.50e-02 6.67e-03 -3.08e-02 9.36e-03 -2.40e-02  
## 2786 -1.40e-02 2.66e-02 1.84e-02 2.86e-02 -5.39e-02 1.98e-02 6.60e-03  
## 2787 -1.44e-03 1.97e-03 1.55e-03 -1.37e-03 -9.48e-04 2.44e-03 -1.16e-03  
## 2788 -4.63e-03 1.63e-02 -1.49e-02 8.83e-03 3.97e-03 7.01e-03 1.43e-03  
## 2789 2.50e-02 -1.55e-02 1.13e-02 -4.25e-02 8.00e-03 8.15e-03 1.48e-02  
## 2790 -3.63e-03 6.02e-03 -8.24e-03 -7.84e-03 3.01e-03 5.47e-03 5.54e-04  
## 2791 -1.17e-02 -1.74e-03 -7.13e-03 -2.94e-03 -4.55e-03 -6.64e-04 -9.35e-03  
## 2792 3.91e-03 -3.24e-03 1.53e-02 -1.67e-02 1.23e-02 8.27e-03 -1.38e-02  
## 2793 -1.02e-02 5.11e-03 -2.18e-03 9.28e-04 1.37e-02 -2.95e-03 6.40e-03  
## 2794 1.35e-02 6.45e-03 -6.15e-03 -1.67e-03 1.81e-02 -7.10e-03 8.31e-03  
## 2795 9.41e-04 1.38e-03 6.72e-05 8.16e-05 2.14e-04 2.80e-04 4.50e-04  
## 2796 -9.68e-04 -3.98e-03 -5.83e-04 -8.28e-04 -1.19e-03 -1.70e-03 -1.34e-03  
## 2797 1.24e-03 -1.93e-03 -2.73e-03 9.58e-03 1.27e-02 -7.45e-03 -6.70e-04  
## 2798 -1.15e-02 1.31e-02 -1.43e-02 -5.89e-03 1.83e-02 3.36e-02 8.85e-03  
## 2799 -4.54e-04 -5.22e-04 -3.47e-05 -1.41e-05 1.43e-05 1.55e-04 -5.50e-05  
## 2800 -3.31e-03 -2.42e-02 -2.05e-02 -2.77e-02 -2.33e-02 -2.64e-02 -1.69e-02  
## 2801 5.76e-03 -5.22e-03 4.53e-03 2.42e-03 -6.94e-03 3.72e-03 -3.47e-03  
## 2802 2.60e-03 3.50e-03 -2.64e-03 -2.97e-03 -2.03e-03 4.93e-03 -2.43e-03  
## 2803 -2.28e-04 -2.69e-03 -5.15e-04 -8.55e-05 -3.32e-04 2.46e-04 -5.06e-04  
## 2804 -2.01e-02 -2.10e-02 9.64e-03 -4.32e-02 1.93e-02 1.34e-02 -1.86e-02  
## 2805 -8.61e-04 1.44e-03 -1.44e-02 8.22e-03 -1.74e-02 5.46e-03 5.63e-03  
## 2806 9.41e-04 -1.10e-03 1.38e-02 9.70e-03 -3.54e-03 -1.02e-02 -5.44e-04  
## 2807 2.91e-04 2.71e-04 -2.81e-05 -1.62e-04 -8.51e-05 -1.61e-04 -4.00e-05  
## 2808 -5.32e-03 7.13e-03 1.39e-02 -3.74e-02 -5.40e-02 3.40e-02 5.74e-03  
## 2809 -1.75e-03 5.36e-04 -2.68e-05 -7.39e-05 -7.07e-05 -2.59e-05 1.14e-04  
## 2810 7.59e-04 1.21e-03 2.07e-03 1.70e-03 -3.91e-03 1.84e-03 3.51e-03  
## 2811 1.20e-02 1.70e-02 -7.19e-03 -4.93e-03 2.46e-02 2.95e-02 1.79e-02  
## 2812 5.27e-05 -5.30e-04 -4.64e-04 -1.98e-03 -3.25e-04 5.18e-03 1.02e-04  
## 2813 2.28e-04 2.07e-04 -6.05e-06 -8.08e-05 -7.31e-05 -9.84e-05 3.71e-06  
## 2814 2.87e-02 1.47e-02 -2.02e-02 3.68e-02 -2.60e-02 -1.78e-02 1.71e-02  
## 2815 -2.78e-03 8.50e-03 -1.58e-02 -1.42e-02 3.54e-03 8.45e-03 1.00e-04  
## 2816 1.32e-03 -6.36e-04 -1.03e-04 -1.76e-04 -1.31e-04 -2.47e-04 -3.05e-04  
## 2817 -1.12e-02 -7.32e-04 -4.76e-03 -1.53e-03 -3.74e-03 3.87e-04 -8.01e-03  
## 2818 -4.72e-02 -3.68e-03 4.04e-02 3.83e-02 4.47e-02 4.57e-02 -3.13e-02  
## 2819 -6.63e-04 -7.56e-04 -6.67e-05 -2.41e-05 9.72e-05 1.94e-04 -2.36e-05  
## 2820 1.68e-03 1.12e-03 -3.68e-05 -3.42e-04 -2.90e-04 -2.21e-04 1.07e-04  
## 2821 1.82e-02 -9.65e-03 -3.05e-03 -5.80e-03 -4.33e-03 -5.48e-03 -3.95e-03  
## 2822 -5.48e-03 2.14e-02 6.56e-03 1.07e-02 6.43e-03 9.64e-03 4.01e-03  
## 2823 -4.62e-03 2.19e-02 -2.40e-02 9.15e-03 3.74e-03 9.02e-03 2.68e-03  
## 2824 -3.28e-04 -1.99e-03 -4.97e-04 5.41e-04 6.09e-04 1.72e-03 1.49e-04  
## 2825 1.60e-02 -1.21e-03 -9.08e-03 -4.74e-03 -6.59e-03 -2.67e-03 -1.18e-02  
## 2826 3.33e-03 -4.19e-03 2.78e-03 2.00e-03 3.45e-03 -5.72e-03 -2.38e-03  
## 2827 -9.97e-03 7.51e-03 1.80e-02 -9.03e-04 1.83e-02 -1.69e-03 1.41e-02  
## 2828 6.08e-03 6.52e-03 -5.84e-03 6.10e-03 5.35e-03 -6.25e-03 -8.32e-03  
## 2829 3.42e-03 -3.75e-03 2.34e-03 2.09e-03 3.33e-03 -5.17e-03 -2.21e-03  
## 2830 -2.64e-04 -4.01e-04 -1.94e-05 2.70e-06 -3.90e-05 -7.56e-05 -7.56e-05  
## 2831 1.46e-04 1.29e-04 -1.32e-04 -1.51e-04 1.25e-04 -2.04e-04 4.72e-05  
## 2832 6.31e-03 1.81e-05 -1.26e-02 9.68e-03 1.73e-02 9.81e-03 -8.84e-03  
## 2833 1.76e-04 2.72e-02 7.17e-03 8.50e-03 8.44e-03 8.72e-03 1.06e-02  
## 2834 -2.02e-05 -1.99e-05 8.29e-08 7.48e-06 4.91e-06 1.12e-05 -4.78e-07  
## 2835 8.99e-04 9.15e-04 -5.91e-05 -4.27e-04 -2.55e-04 -4.49e-04 1.30e-05  
## 2836 -1.02e-02 -1.49e-02 -1.11e-02 -1.20e-02 7.91e-03 -1.59e-02 9.17e-03  
## 2837 3.91e-03 1.02e-02 9.89e-03 1.16e-02 8.97e-03 9.85e-03 6.89e-03  
## 2838 6.27e-03 -1.21e-02 6.60e-03 -1.72e-02 -1.59e-02 -1.64e-02 1.21e-02  
## 2839 1.20e-03 8.55e-04 -1.85e-04 -5.46e-04 -2.75e-04 -4.17e-04 -1.17e-04  
## 2840 -9.75e-03 7.82e-03 -2.53e-03 2.25e-02 -5.91e-03 -1.38e-03 1.01e-02  
## 2841 -1.66e-02 -2.67e-02 -2.95e-02 8.98e-03 -2.76e-02 -3.38e-02 2.95e-02  
## 2842 -6.26e-03 1.72e-02 6.55e-03 -2.73e-02 8.11e-03 1.18e-02 1.10e-02  
## 2843 1.23e-02 -2.45e-03 -2.03e-02 1.13e-02 1.05e-02 6.36e-03 1.29e-02  
## 2844 -3.88e-03 7.28e-03 5.21e-03 -7.18e-03 -9.33e-03 7.63e-03 3.54e-03  
## 2845 -6.62e-04 -5.62e-03 -1.32e-03 -1.76e-03 -1.81e-03 -2.12e-03 -2.31e-03  
## 2846 2.77e-03 -1.45e-03 1.86e-02 9.94e-03 1.91e-02 -2.37e-02 -6.31e-03  
## 2847 -1.80e-03 -1.47e-03 1.23e-03 1.25e-03 1.02e-03 8.18e-04 1.23e-03  
## 2848 4.62e-03 -2.24e-03 2.67e-03 2.68e-03 1.76e-03 1.43e-03 2.81e-03  
## 2849 2.67e-03 3.69e-03 1.32e-02 1.03e-02 -1.01e-02 9.04e-03 1.27e-02  
## 2850 1.66e-02 1.15e-02 6.59e-03 -1.68e-02 -1.63e-02 1.21e-02 -1.89e-02  
## 2851 6.13e-04 5.75e-04 -4.03e-05 -2.92e-04 -1.79e-04 -2.99e-04 -6.39e-05  
## 2852 2.86e-02 3.26e-02 6.99e-03 8.79e-03 3.85e-03 8.15e-03 3.02e-03  
## 2853 8.58e-04 -1.38e-03 8.94e-04 -1.56e-03 -1.25e-03 6.69e-04 -1.19e-03  
## 2854 -1.26e-03 -7.81e-03 -1.92e-03 -3.53e-03 -2.88e-03 -3.63e-03 -2.68e-03  
## 2855 -1.42e-03 -1.47e-03 1.22e-03 1.55e-03 9.32e-04 1.19e-03 1.54e-03  
## 2856 5.63e-04 3.55e-03 2.04e-02 9.35e-03 -9.66e-03 9.32e-03 -4.59e-03  
## 2857 1.21e-02 2.00e-03 -5.70e-03 -3.47e-03 -7.69e-03 -4.93e-03 -1.75e-02  
## 2858 1.70e-02 -3.46e-04 -1.00e-02 -7.37e-03 -8.22e-03 -5.51e-03 -1.45e-02  
## 2859 -4.57e-03 2.59e-02 6.71e-03 1.06e-02 5.20e-03 8.99e-03 2.90e-03  
## 2860 -3.22e-03 8.76e-03 -2.19e-02 7.23e-03 6.21e-03 -2.13e-02 -2.58e-02  
## 2861 2.78e-04 -5.91e-04 -5.65e-04 -1.17e-03 -3.01e-04 3.30e-03 -9.57e-05  
## 2862 -2.22e-02 -8.93e-03 -3.23e-02 7.94e-03 1.40e-02 9.76e-03 2.89e-02  
## 2863 -8.13e-04 -2.04e-03 -2.83e-04 -1.47e-04 -1.78e-04 -3.88e-05 -5.95e-04  
## 2864 -2.26e-02 -5.79e-03 -2.33e-02 8.47e-03 1.41e-02 9.82e-03 -2.26e-02  
## 2865 1.17e-02 2.52e-03 -4.90e-03 -1.36e-03 -8.89e-03 -4.90e-03 8.56e-03  
## 2866 1.60e-03 -4.01e-04 1.18e-02 1.12e-02 -9.43e-04 -5.15e-03 1.60e-03  
## 2867 -1.16e-02 -7.17e-05 -8.17e-03 -3.27e-03 -8.89e-03 -3.88e-03 1.68e-02  
## 2868 2.04e-04 -5.08e-05 -1.90e-06 1.89e-05 8.22e-06 1.59e-05 -5.77e-06  
## 2869 -1.12e-02 5.42e-04 -1.03e-02 -3.11e-03 -1.41e-02 -6.58e-03 1.15e-02  
## 2870 2.09e-03 1.41e-03 -1.05e-04 -4.77e-04 -3.58e-04 -3.02e-04 2.11e-04  
## 2871 -1.17e-02 -1.14e-03 -1.04e-02 -5.50e-03 -1.17e-02 -4.89e-03 -2.23e-02  
## 2872 -1.11e-03 -3.94e-03 -8.83e-04 -1.30e-03 -8.35e-04 -4.28e-04 -1.05e-03  
## 2873 -5.85e-03 -3.14e-03 1.66e-02 -2.14e-02 -3.42e-02 -1.93e-02 1.18e-02  
## 2874 -2.46e-02 -6.55e-03 1.50e-02 8.14e-03 -2.64e-02 1.06e-02 -2.04e-02  
## 2875 -2.25e-03 3.88e-04 1.59e-02 -1.83e-02 1.97e-02 -1.69e-02 1.17e-02  
## 2876 -2.37e-02 -2.31e-03 1.28e-02 7.54e-03 1.56e-02 9.66e-03 2.98e-02  
## 2877 -3.84e-03 4.88e-03 4.78e-03 -6.75e-03 5.62e-03 -6.69e-03 5.62e-03  
## 2878 -8.80e-03 3.03e-02 7.10e-03 6.74e-03 1.15e-02 1.19e-02 -2.45e-02  
## 2879 -2.37e-03 7.43e-04 -1.77e-04 -3.06e-04 -1.89e-04 -5.26e-05 -4.97e-05  
## 2880 -2.30e-03 -2.83e-03 1.60e-03 2.19e-03 1.43e-03 1.77e-03 2.39e-03  
## 2881 4.10e-04 -3.13e-03 -8.00e-04 -2.74e-03 -3.85e-04 -1.94e-03 9.67e-06  
## 2882 -1.02e-02 -7.88e-03 9.69e-03 -7.57e-03 -3.83e-03 -7.15e-03 -2.22e-03  
## 2883 8.11e-03 -4.21e-02 -1.09e-02 -1.43e-02 -6.69e-03 -1.36e-02 -5.58e-03  
## 2884 1.40e-02 -6.31e-04 -8.57e-03 -5.33e-03 -5.57e-03 -3.00e-03 -1.20e-02  
## 2885 -5.15e-04 -6.98e-04 -2.23e-03 -2.50e-03 -2.41e-03 3.03e-03 -3.25e-03  
## 2886 4.25e-02 -1.05e-02 -3.19e-02 -2.46e-02 -2.26e-02 -1.08e-02 -2.56e-02  
## 2887 1.21e-02 1.74e-03 -5.64e-03 -3.40e-03 -7.72e-03 -4.99e-03 -1.77e-02  
## 2888 5.11e-05 -6.77e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.23e-03 -2.63e-03  
## 2889 -4.54e-02 -2.75e-02 4.33e-02 4.22e-02 -1.01e-02 -2.02e-02 1.09e-03  
## 2890 2.92e-02 -2.48e-02 -4.06e-02 3.33e-02 4.85e-02 3.68e-02 -2.28e-02  
## 2891 -1.43e-03 -2.46e-03 -3.65e-04 -6.83e-04 -4.70e-04 -6.06e-04 -7.08e-04  
## 2892 -9.62e-04 -4.61e-03 -1.14e-03 -1.55e-03 -1.01e-03 -3.82e-04 -1.09e-03  
## 2893 1.43e-03 -5.02e-04 -3.71e-05 4.75e-05 1.01e-04 1.42e-04 -7.00e-05  
## 2894 5.42e-03 -1.30e-02 -1.76e-02 -1.58e-02 -1.07e-02 -8.22e-03 -9.19e-03  
## 2895 1.43e-03 3.14e-03 3.18e-03 2.96e-03 2.78e-03 2.48e-03 5.28e-03  
## 2896 1.46e-02 -1.15e-03 -8.46e-03 -5.45e-03 -5.86e-03 -2.32e-03 -1.20e-02  
## 2897 1.62e-04 1.41e-04 -5.00e-04 -1.69e-03 4.28e-03 4.22e-03 -1.62e-03  
## 2898 -2.05e-02 -1.29e-02 1.29e-02 -4.01e-02 8.53e-03 6.72e-03 1.34e-02  
## 2899 2.93e-03 -2.71e-03 -1.26e-02 1.05e-02 7.02e-03 -1.58e-02 5.91e-03  
## 2900 2.64e-02 -4.46e-03 -1.94e-02 -1.67e-02 -1.55e-02 -1.13e-02 -2.09e-02  
## 2901 -1.36e-02 -6.18e-03 1.16e-02 1.39e-02 -1.37e-02 -1.62e-02 1.63e-02  
## 2902 -3.92e-03 1.50e-02 7.20e-03 1.06e-02 4.75e-03 -1.90e-02 4.44e-03  
## 2903 1.86e-02 2.56e-04 -9.90e-03 -4.19e-03 -1.45e-02 -7.19e-03 1.04e-02  
## 2904 -1.37e-02 1.14e-02 -8.20e-03 3.18e-02 -1.27e-02 -6.95e-03 1.35e-02  
## 2905 -1.35e-03 2.29e-03 -1.79e-03 2.51e-03 1.51e-03 -1.96e-03 9.25e-04  
## 2906 4.59e-03 -1.44e-03 -2.92e-05 3.75e-05 5.97e-05 3.45e-04 1.05e-04  
## 2907 1.56e-02 5.83e-03 -9.49e-03 -9.68e-03 3.00e-02 -9.13e-03 -1.63e-02  
## 2908 1.33e-02 -8.37e-03 -2.66e-02 6.13e-03 -2.77e-02 5.08e-03 2.87e-02  
## 2909 -4.78e-05 -3.24e-04 -3.65e-04 -3.35e-04 -1.90e-04 -1.96e-04 -2.62e-04  
## 2910 -9.26e-03 2.27e-02 7.83e-03 8.21e-03 1.15e-02 1.23e-02 -1.34e-02  
## 2911 1.16e-03 1.91e-03 1.67e-03 1.94e-03 1.10e-03 1.30e-03 1.37e-03  
## 2912 -6.16e-04 -4.58e-03 6.15e-03 -9.48e-03 6.07e-03 -1.04e-02 6.42e-03  
## 2913 2.00e-03 1.54e-03 -1.59e-04 -1.27e-04 -9.41e-05 -1.27e-04 1.04e-05  
## 2914 4.43e-03 -4.00e-04 -3.03e-02 6.00e-03 -2.85e-02 7.81e-03 1.79e-02  
## 2915 -2.29e-03 5.07e-03 -7.75e-03 7.85e-03 1.06e-02 9.84e-03 -5.41e-03  
## 2916 7.86e-03 -5.22e-03 3.38e-03 2.58e-03 2.02e-03 1.62e-03 4.24e-03  
## 2917 -1.03e-02 1.81e-03 -4.00e-03 -1.76e-05 -7.66e-03 -3.15e-03 8.36e-03  
## 2918 2.41e-02 1.17e-02 -1.59e-02 3.63e-02 -1.97e-02 -1.32e-02 1.59e-02  
## 2919 -1.26e-02 -4.84e-03 1.11e-02 -1.09e-02 -8.50e-03 8.13e-03 -8.77e-03  
## 2920 1.82e-02 6.22e-03 2.61e-02 -8.55e-03 -8.51e-03 -7.49e-03 -1.50e-02  
## 2921 -1.39e-02 -2.85e-03 1.28e-02 1.18e-02 -3.13e-03 -7.90e-03 8.92e-04  
## 2922 1.31e-04 -1.05e-03 -1.39e-04 -6.82e-04 -1.49e-06 -4.24e-04 1.92e-04  
## 2923 -2.07e-02 -8.66e-04 1.22e-02 8.79e-03 9.77e-03 8.16e-03 1.92e-02  
## 2924 7.03e-03 2.64e-03 6.24e-04 9.85e-04 -7.64e-03 1.57e-03 -8.01e-03  
## 2925 1.73e-04 -1.44e-03 -2.12e-03 -1.79e-03 1.97e-03 -2.29e-03 1.37e-03  
## 2926 3.67e-03 -9.68e-04 -9.79e-05 2.81e-04 2.15e-04 3.66e-04 1.03e-04  
## 2927 1.26e-02 -1.05e-02 -2.45e-02 6.08e-03 -2.41e-02 9.22e-03 -1.25e-02  
## 2928 1.65e-03 -3.95e-03 -5.33e-03 1.28e-02 -2.49e-03 -9.13e-03 1.33e-03  
## 2929 -1.65e-03 6.70e-04 -5.57e-05 3.43e-05 3.86e-06 5.70e-05 6.90e-05  
## 2930 -6.35e-04 -4.21e-03 -8.09e-04 -9.50e-04 -1.15e-03 -1.51e-03 -1.63e-03  
## 2931 6.33e-03 -3.14e-03 2.97e-03 3.11e-03 1.97e-03 1.65e-03 3.43e-03  
## 2932 1.17e-02 -7.37e-03 -2.05e-02 6.91e-03 -1.96e-02 1.11e-02 -9.93e-03  
## 2933 1.78e-03 1.04e-03 -4.27e-03 9.14e-03 -5.96e-03 8.54e-03 1.51e-02  
## 2934 2.50e-03 -3.28e-03 -5.30e-03 1.05e-02 1.22e-02 -9.63e-03 1.47e-02  
## 2935 1.73e-02 2.26e-02 2.75e-02 -8.84e-03 3.13e-02 3.79e-02 -1.80e-02  
## 2936 6.82e-03 -1.39e-03 3.15e-02 -9.93e-03 3.00e-02 -1.36e-02 2.71e-02  
## 2937 2.21e-04 -4.37e-04 -5.15e-04 -1.34e-03 -7.82e-04 2.86e-03 -1.07e-03  
## 2938 4.60e-04 4.61e-04 1.42e-05 -1.17e-04 -1.05e-04 -2.00e-04 3.82e-05  
## 2939 5.78e-03 -1.74e-03 -3.65e-04 -4.74e-04 -1.58e-04 2.06e-04 -1.70e-04  
## 2940 4.18e-03 -1.43e-02 -1.65e-02 -1.87e-02 8.63e-03 -1.72e-02 -2.09e-02  
## 2941 -1.61e-02 -1.11e-02 1.17e-02 -2.72e-02 9.97e-03 1.02e-02 1.26e-02  
## 2942 4.94e-03 -2.03e-03 1.52e-02 1.20e-02 1.04e-02 -1.95e-02 1.36e-02  
## 2943 -1.71e-02 -3.91e-03 -8.81e-03 9.28e-03 -1.21e-02 8.72e-03 -9.79e-03  
## 2944 -7.67e-03 -2.26e-04 -1.71e-02 -5.78e-03 1.81e-02 -7.24e-03 9.21e-03  
## 2945 6.20e-04 -4.99e-04 -8.23e-04 6.06e-04 9.02e-04 7.01e-04 -4.42e-04  
## 2946 -3.21e-04 -8.61e-03 -2.47e-03 -4.19e-03 -3.23e-03 -3.33e-03 -3.16e-03  
## 2947 -3.98e-03 6.10e-03 5.35e-03 -1.00e-02 7.13e-03 -9.39e-03 7.53e-03  
## 2948 -1.58e-03 -5.28e-03 -8.19e-04 -1.93e-03 -1.94e-03 -2.53e-03 -1.73e-03  
## 2949 -1.33e-02 1.15e-02 2.28e-02 -4.47e-03 2.02e-02 -8.39e-03 9.32e-03  
## 2950 -1.58e-02 -1.88e-03 -9.23e-03 -8.04e-03 -7.56e-03 -5.02e-03 -1.30e-02  
## 2951 -1.09e-02 1.83e-03 -3.39e-03 4.10e-04 -7.17e-03 -2.86e-03 8.89e-03  
## 2952 -1.98e-02 -4.85e-03 -1.14e-02 8.44e-03 -1.15e-02 1.10e-02 -5.55e-03  
## 2953 2.62e-02 -7.91e-03 -3.77e-02 7.70e-03 7.83e-03 6.10e-03 1.86e-02  
## 2954 -5.67e-05 -6.24e-03 -1.67e-03 -1.96e-03 -1.85e-03 -1.90e-03 -2.73e-03  
## 2955 1.14e-02 -1.90e-02 -1.39e-02 -1.77e-02 1.21e-02 -2.01e-02 -1.56e-02  
## 2956 -1.36e-02 1.17e-02 -9.96e-03 3.23e-02 -1.37e-02 -8.46e-03 1.34e-02  
## 2957 -3.36e-03 9.40e-03 -1.56e-02 8.48e-03 3.89e-03 -1.71e-02 2.56e-03  
## 2958 -7.31e-03 -1.58e-03 -1.89e-02 -2.22e-02 -1.54e-02 3.89e-02 -1.67e-02  
## 2959 7.58e-03 -3.38e-03 -4.05e-04 -1.02e-03 -9.19e-04 -1.16e-03 -7.57e-04  
## 2960 1.08e-02 6.37e-03 5.14e-03 -8.76e-03 4.52e-03 -9.59e-03 2.37e-03  
## 2961 -1.22e-02 -4.24e-03 -3.31e-02 -2.52e-02 3.30e-02 -1.71e-02 -3.06e-02  
## 2962 7.46e-04 1.18e-02 1.18e-02 5.45e-03 1.77e-02 9.74e-03 -2.51e-02  
## 2963 8.73e-04 -2.40e-03 -1.12e-03 -1.65e-03 -3.65e-04 -1.16e-03 -1.33e-04  
## 2964 -1.81e-02 -1.75e-02 -3.66e-02 7.71e-03 -3.22e-02 1.11e-02 3.04e-02  
## 2965 1.13e-04 -2.74e-04 1.02e-03 -2.43e-04 -2.44e-06 -1.95e-04 8.40e-05  
## 2966 1.43e-02 -1.05e-03 -7.92e-03 -4.09e-03 -5.77e-03 -2.28e-03 -1.12e-02  
## 2967 -2.98e-03 -1.99e-03 2.20e-03 1.73e-03 1.48e-03 1.21e-03 2.21e-03  
## 2968 7.23e-04 1.30e-03 1.15e-03 1.33e-03 7.33e-04 9.03e-04 8.27e-04  
## 2969 5.07e-02 5.46e-03 1.55e-02 -2.78e-02 2.00e-02 -2.82e-02 6.51e-03  
## 2970 -1.72e-02 2.01e-02 2.69e-02 3.74e-02 -1.58e-02 -1.19e-02 -2.55e-02  
## 2971 -3.98e-03 1.54e-02 5.81e-03 1.06e-02 8.89e-03 -2.11e-02 1.10e-02  
## 2972 1.43e-02 -7.47e-03 -2.09e-03 -4.09e-03 -3.60e-03 -4.20e-03 -3.19e-03  
## 2973 1.19e-04 -8.61e-03 -2.66e-03 -4.35e-03 -3.45e-03 -3.39e-03 -3.23e-03  
## 2974 -1.54e-02 -1.70e-02 -1.70e-02 1.10e-02 -2.08e-02 -2.42e-02 1.64e-02  
## 2975 -3.18e-03 4.83e-03 3.42e-03 3.79e-03 -4.50e-03 -4.63e-03 2.06e-03  
## 2976 -2.65e-03 9.18e-04 -2.01e-04 -2.54e-04 -2.01e-04 -1.13e-04 1.86e-04  
## 2977 2.73e-03 2.03e-03 -2.37e-04 -5.43e-04 -5.05e-04 -5.66e-04 2.80e-04  
## 2978 -5.94e-04 -7.95e-04 -2.09e-05 -1.54e-04 -1.48e-04 -2.29e-04 -1.38e-04  
## 2979 -5.32e-03 -5.14e-03 3.31e-03 2.82e-03 2.16e-03 1.98e-03 4.29e-03  
## 2980 9.14e-03 -3.41e-03 -8.21e-04 -7.53e-04 -5.81e-04 -1.07e-03 -1.07e-03  
## 2981 8.89e-03 -1.51e-02 -1.12e-02 -1.37e-02 -7.10e-03 -8.49e-03 -2.58e-03  
## 2982 -1.26e-02 6.05e-03 1.06e-02 1.04e-02 9.25e-03 9.34e-03 1.09e-02  
## 2983 -6.44e-06 -6.69e-06 6.24e-07 4.12e-06 2.31e-06 4.49e-06 1.27e-06  
## 2984 1.59e-04 -8.42e-04 -8.15e-04 -2.57e-03 -5.13e-04 5.81e-03 1.77e-05  
## 2985 2.70e-04 -7.59e-03 -1.93e-03 -3.26e-03 -3.12e-03 -2.72e-03 -2.43e-03  
## 2986 -4.47e-03 -1.19e-02 -1.12e-02 -9.90e-03 -1.37e-02 -1.20e-02 -2.01e-02  
## 2987 -1.94e-02 -8.15e-03 1.52e-02 1.14e-02 -1.46e-02 -2.42e-02 -1.35e-02  
## 2988 3.62e-03 -2.80e-03 -1.38e-02 9.82e-03 6.85e-03 -1.64e-02 4.96e-03  
## 2989 -3.07e-04 -3.33e-03 -6.82e-04 -1.05e-05 -1.83e-04 2.59e-04 -4.05e-04  
## 2990 1.59e-04 3.13e-04 5.87e-04 5.21e-04 -7.19e-04 5.92e-04 -4.86e-04  
## 2991 3.63e-03 9.60e-03 1.00e-02 1.19e-02 9.03e-03 1.02e-02 6.45e-03  
## 2992 1.96e-02 1.26e-02 7.37e-03 -1.98e-02 -2.33e-02 8.95e-03 3.01e-03  
## 2993 -1.77e-03 -6.88e-03 1.54e-02 -1.95e-02 -2.93e-02 -1.16e-02 2.86e-02  
## 2994 -1.89e-02 -9.03e-03 -3.36e-02 8.22e-03 8.48e-03 7.98e-03 1.69e-02  
## 2995 -8.98e-04 -4.16e-03 -7.19e-04 -1.00e-03 -1.18e-03 -1.76e-03 -1.34e-03  
## 2996 -1.31e-02 9.90e-05 -7.54e-03 -2.61e-03 -7.94e-03 -4.15e-03 1.78e-02  
## 2997 -4.34e-04 -5.99e-03 -1.58e-03 -2.06e-03 -1.84e-03 -2.20e-03 -2.39e-03  
## 2998 -3.44e-03 2.63e-03 4.73e-03 -7.37e-03 -5.88e-03 -5.42e-03 -6.43e-03  
## 2999 -1.87e-02 9.37e-03 -2.09e-02 -1.67e-02 -1.46e-02 4.10e-02 -2.31e-02  
## 3000 1.23e-02 2.30e-03 -5.20e-03 -3.70e-03 -1.13e-02 -5.96e-03 1.01e-02  
## 3001 -2.66e-03 -7.84e-03 -2.06e-03 -5.14e-03 -3.91e-03 -5.99e-03 -4.01e-03  
## 3002 -1.18e-02 -2.10e-03 -8.59e-03 -3.52e-03 -5.74e-03 -9.49e-04 -1.06e-02  
## 3003 2.75e-02 1.86e-03 2.36e-02 -1.13e-02 -1.17e-02 -5.95e-03 -1.67e-02  
## 3004 -6.26e-04 -3.17e-03 -6.95e-04 -2.84e-04 -3.81e-04 1.14e-04 -8.38e-04  
## 3005 2.30e-02 -1.08e-02 -4.26e-03 -6.93e-03 -5.27e-03 -5.89e-03 -4.64e-03  
## 3006 9.62e-03 -4.54e-03 1.73e-02 -2.52e-02 1.01e-02 6.26e-03 1.34e-02  
## 3007 -4.27e-04 -9.89e-04 -5.13e-05 6.10e-04 3.83e-04 9.23e-04 2.31e-04  
## 3008 -2.01e-03 -1.71e-03 1.56e-03 1.18e-03 -2.01e-03 1.46e-03 -1.30e-03  
## 3009 1.74e-02 3.00e-02 9.61e-03 9.59e-03 1.38e-02 1.43e-02 -1.69e-02  
## 3010 7.94e-03 1.90e-03 1.89e-02 7.96e-03 -2.24e-02 6.20e-03 -1.92e-02  
## 3011 2.97e-03 -1.61e-03 1.90e-03 1.76e-03 1.37e-03 9.45e-04 1.70e-03  
## 3012 8.66e-03 -3.65e-02 -8.36e-03 -1.08e-02 -9.98e-03 -1.32e-02 -1.55e-02  
## 3013 -2.52e-03 2.63e-03 -6.93e-03 -5.47e-03 3.76e-03 -6.18e-03 2.65e-03  
## 3014 1.91e-04 -6.20e-05 1.88e-07 -1.19e-05 5.72e-06 -2.65e-05 -3.03e-05  
## 3015 1.61e-02 -3.19e-02 4.08e-02 -3.72e-02 -1.80e-02 4.89e-02 -1.11e-02  
## 3016 3.87e-04 -1.23e-03 3.19e-03 -2.90e-03 3.00e-03 -3.55e-03 2.02e-03  
## 3017 -1.43e-04 -6.20e-03 -1.75e-03 -2.17e-03 -1.93e-03 -2.19e-03 -2.53e-03  
## 3018 -3.08e-05 -6.45e-03 -1.75e-03 -2.07e-03 -2.07e-03 -2.14e-03 -2.65e-03  
## 3019 -5.26e-03 -4.94e-03 3.45e-03 2.93e-03 2.29e-03 2.13e-03 4.34e-03  
## 3020 -2.93e-04 -5.12e-03 -1.03e-03 -1.33e-03 -1.60e-03 -1.68e-03 -1.70e-03  
## 3021 -2.10e-03 6.66e-04 -1.72e-04 -2.86e-04 -1.86e-04 -6.62e-05 -7.23e-05  
## 3022 -1.19e-02 -8.95e-04 -9.10e-03 -4.06e-03 -9.25e-03 -4.27e-03 1.78e-02  
## 3023 -7.52e-04 -8.34e-03 -2.12e-03 -3.87e-03 -3.34e-03 -3.42e-03 -2.93e-03  
## 3024 -1.55e-02 3.70e-02 4.00e-02 4.06e-02 4.46e-02 4.00e-02 -1.25e-02  
## 3025 -3.64e-02 -5.93e-02 -1.85e-02 -2.45e-02 -1.42e-02 -2.20e-02 -1.14e-02  
## 3026 1.20e-02 1.89e-03 -5.93e-03 -2.48e-03 -7.34e-03 -4.96e-03 1.74e-02  
## 3027 3.85e-02 -9.37e-03 -2.70e-02 -1.68e-02 -1.79e-02 -6.96e-03 -2.27e-02  
## 3028 -3.58e-04 -7.98e-04 -1.37e-04 1.89e-04 2.17e-04 5.42e-04 -5.85e-05  
## 3029 1.97e-04 -1.36e-03 -1.12e-03 -3.22e-03 -6.92e-04 7.26e-03 -6.71e-05  
## 3030 -1.46e-02 9.55e-04 -4.95e-03 -2.80e-03 -7.28e-03 -3.86e-03 1.80e-02  
## 3031 -2.63e-02 5.16e-03 1.69e-02 1.02e-02 1.17e-02 4.34e-03 1.71e-02  
## 3032 -3.61e-04 -8.65e-04 1.54e-03 -1.45e-03 -1.25e-03 -1.37e-03 -1.73e-03  
## 3033 -6.27e-04 -1.33e-03 -1.85e-04 -1.53e-04 -1.14e-04 -1.11e-04 -4.03e-04  
## 3034 2.70e-04 -1.68e-03 -3.82e-03 -1.09e-02 1.51e-02 1.03e-02 -3.94e-03  
## 3035 -2.97e-04 -3.94e-04 -4.32e-04 -5.71e-04 -2.66e-04 -4.43e-04 -3.76e-04  
## 3036 -3.08e-03 8.65e-03 9.64e-03 -5.29e-02 3.14e-03 2.08e-02 -5.79e-03  
## 3037 -4.11e-03 1.98e-02 -2.12e-02 9.36e-03 3.42e-03 8.80e-03 2.97e-03  
## 3038 4.07e-03 -9.88e-03 3.67e-02 -2.60e-02 -1.90e-02 -1.74e-02 -1.13e-02  
## 3039 -4.67e-03 -8.43e-03 -1.22e-02 -1.01e-02 3.28e-02 -9.55e-03 -1.08e-02  
## 3040 8.43e-03 -4.21e-02 -1.15e-02 -1.50e-02 -6.65e-03 -1.38e-02 -5.84e-03  
## 3041 -6.09e-03 9.99e-03 -7.23e-03 6.69e-03 -7.50e-03 7.20e-03 7.39e-03  
## 3042 1.83e-03 -1.75e-03 1.24e-02 9.36e-03 -3.25e-03 -8.45e-03 -5.32e-04  
## 3043 3.13e-02 5.28e-03 2.77e-02 -1.71e-02 -2.23e-02 -1.36e-02 -3.22e-02  
## 3044 -4.85e-03 2.53e-02 6.94e-03 1.08e-02 5.13e-03 8.99e-03 2.63e-03  
## 3045 6.32e-04 2.84e-02 7.52e-03 9.00e-03 8.78e-03 9.23e-03 1.21e-02  
## 3046 1.49e-02 1.27e-02 -8.66e-03 -7.27e-03 -1.18e-02 2.99e-02 -2.35e-02  
## 3047 -5.17e-03 -4.97e-03 3.27e-03 2.70e-03 2.23e-03 1.95e-03 4.39e-03  
## 3048 1.21e-02 1.33e-02 7.23e-03 -1.42e-02 3.86e-03 5.68e-03 1.40e-03  
## 3049 7.47e-04 -7.75e-05 8.39e-03 7.23e-03 -8.47e-04 -3.31e-03 1.05e-03  
## 3050 6.40e-04 -1.40e-03 -1.47e-03 7.86e-03 1.02e-02 -5.26e-03 -4.22e-04  
## 3051 -1.22e-02 -1.06e-02 -3.23e-02 -2.54e-02 -2.23e-02 -1.44e-02 -2.73e-02  
## 3052 1.43e-03 1.59e-03 1.59e-03 -1.09e-03 1.66e-03 -1.01e-03 -1.88e-03  
## 3053 -5.68e-04 -1.47e-03 -2.24e-04 -5.10e-05 -1.49e-04 -1.42e-04 -3.18e-04  
## 3054 -3.70e-02 -4.82e-02 -1.71e-02 -2.32e-02 4.18e-02 -2.42e-02 -1.60e-02  
## 3055 2.35e-04 -7.19e-05 1.07e-05 3.11e-06 -4.44e-06 -4.61e-06 2.04e-06  
## 3056 4.66e-04 6.75e-03 9.08e-03 8.95e-03 -1.57e-02 1.23e-02 -1.74e-02  
## 3057 -1.03e-02 8.34e-03 1.97e-02 -8.07e-04 1.74e-02 -4.22e-03 9.22e-03  
## 3058 1.35e-03 -1.17e-03 8.51e-03 9.54e-03 -1.64e-02 -2.07e-02 6.91e-03  
## 3059 1.16e-02 -1.86e-03 1.84e-02 8.27e-03 -2.09e-02 1.24e-02 -9.17e-03  
## 3060 -2.13e-02 2.91e-03 1.51e-02 1.09e-02 1.04e-02 8.17e-03 1.66e-02  
## 3061 -5.89e-03 2.92e-02 7.74e-03 1.00e-02 4.82e-03 9.56e-03 4.18e-03  
## 3062 2.24e-02 2.46e-03 1.49e-02 9.45e-03 1.01e-02 6.62e-03 2.07e-02  
## 3063 1.43e-02 7.48e-03 2.47e-02 -4.11e-03 -9.15e-03 -6.21e-03 -1.99e-02  
## 3064 3.64e-03 -4.94e-03 -7.74e-03 -1.25e-02 1.32e-02 1.11e-02 1.66e-02  
## 3065 -8.70e-04 -8.06e-03 -2.01e-03 -3.75e-03 -3.25e-03 -3.39e-03 -2.89e-03  
## 3066 4.74e-03 -1.31e-02 -1.64e-02 -1.57e-02 9.44e-03 -1.58e-02 9.61e-03  
## 3067 2.13e-03 9.90e-04 -1.72e-03 -1.61e-03 -1.26e-03 -9.94e-04 -1.33e-03  
## 3068 -1.08e-03 -4.93e-04 8.45e-04 8.58e-04 1.04e-03 9.59e-04 -1.25e-03  
## 3069 -1.09e-03 -1.29e-03 -4.95e-03 -5.67e-03 -3.44e-03 7.93e-03 -3.71e-03  
## 3070 9.59e-03 7.30e-03 -9.13e-03 -9.94e-03 2.77e-03 5.00e-03 7.99e-04  
## 3071 1.92e-05 7.65e-04 -2.98e-03 8.38e-03 -2.89e-03 9.56e-03 -6.85e-04  
## 3072 8.98e-03 -2.35e-02 4.20e-02 3.80e-02 -1.06e-02 -2.37e-02 -1.29e-03  
## 3073 1.24e-04 -2.27e-04 -1.45e-04 1.17e-04 1.72e-04 -2.33e-04 -9.29e-05  
## 3074 -8.95e-03 2.72e-04 -3.55e-03 1.41e-04 -4.02e-03 -4.72e-04 1.27e-02  
## 3075 7.28e-03 -2.54e-02 3.72e-02 -5.94e-03 -1.14e-02 -1.34e-02 3.17e-02  
## 3076 4.51e-03 1.08e-02 9.83e-03 1.17e-02 8.83e-03 9.88e-03 6.96e-03  
## 3077 1.46e-02 7.96e-04 -7.97e-03 -5.86e-03 -1.06e-02 -7.23e-03 2.21e-02  
## 3078 4.24e-04 3.78e-04 3.88e-04 -3.08e-04 3.21e-04 -4.10e-04 1.44e-04  
## 3079 -7.16e-04 3.35e-04 1.45e-05 4.62e-05 6.22e-05 1.57e-04 1.27e-04  
## 3080 -7.85e-04 -5.06e-03 -1.35e-03 -1.73e-03 -1.16e-03 -3.42e-04 -1.06e-03  
## 3081 -1.23e-02 1.06e-02 2.02e-02 1.41e-03 1.63e-02 -3.49e-03 8.71e-03  
## 3082 1.96e-02 -2.03e-02 1.24e-02 8.39e-03 -2.76e-02 -3.73e-02 3.20e-02  
## 3083 -1.13e-02 5.40e-04 -6.60e-03 -2.52e-03 -6.91e-03 -3.80e-03 1.50e-02  
## 3084 4.35e-04 -4.45e-04 -6.00e-04 3.22e-04 2.63e-04 2.00e-04 3.25e-04  
## 3085 5.14e-03 -3.13e-03 3.22e-03 3.22e-03 2.51e-03 1.61e-03 3.76e-03  
## 3086 6.60e-03 -3.70e-02 -7.74e-03 -8.73e-03 -8.31e-03 -1.26e-02 4.02e-02  
## 3087 -7.21e-04 -3.55e-03 -8.04e-04 -2.58e-04 -9.28e-05 1.37e-04 -9.32e-04  
## 3088 -5.82e-03 -1.49e-02 -1.44e-02 -1.43e-02 -1.09e-02 -1.33e-02 -1.10e-02  
## 3089 -2.73e-03 5.47e-03 -5.76e-03 5.78e-03 3.24e-03 -5.79e-03 2.49e-03  
## 3090 -6.23e-03 1.40e-02 -9.65e-03 7.07e-03 6.06e-03 8.21e-03 -1.35e-02  
## 3091 -2.01e-02 -6.97e-03 1.08e-02 9.20e-03 -2.82e-02 1.11e-02 3.06e-02  
## 3092 -1.17e-03 -1.57e-04 -1.57e-03 2.94e-03 -9.10e-04 -1.50e-03 -8.30e-04  
## 3093 8.29e-05 -5.79e-03 -1.28e-03 -1.50e-03 -1.77e-03 -1.70e-03 -1.88e-03  
## 3094 2.65e-02 7.79e-03 2.47e-02 -1.05e-02 3.14e-02 -6.41e-03 -2.01e-02  
## 3095 -7.93e-04 -2.75e-03 -5.14e-04 -2.23e-04 -3.27e-04 8.08e-06 -7.31e-04  
## 3096 4.71e-03 -2.91e-03 -1.02e-02 9.30e-03 -1.41e-02 8.34e-03 -1.24e-02  
## 3097 3.73e-03 -2.56e-03 1.33e-02 -1.34e-02 8.30e-03 6.52e-03 8.78e-03  
## 3098 6.70e-03 -1.76e-02 -1.77e-02 3.65e-02 -1.42e-02 4.25e-02 -3.97e-03  
## 3099 2.12e-03 2.43e-02 8.08e-03 1.59e-02 1.15e-02 1.54e-02 1.25e-02  
## 3100 2.31e-02 3.05e-03 1.33e-02 4.95e-03 8.99e-03 1.06e-03 1.79e-02  
## 3101 -3.53e-03 8.30e-03 4.67e-03 6.63e-03 3.71e-03 -1.01e-02 1.70e-03  
## 3102 9.40e-04 8.32e-04 -3.64e-05 -2.79e-04 -1.95e-04 -3.77e-04 1.15e-04  
## 3103 -2.37e-05 1.96e-04 3.31e-05 1.30e-04 6.57e-06 8.27e-05 -1.18e-05  
## 3104 -1.17e-02 -1.06e-02 -6.01e-03 -9.12e-03 1.26e-02 -7.67e-03 -2.94e-03  
## 3105 1.69e-03 -6.85e-04 -1.89e-05 -1.24e-04 7.00e-06 3.74e-05 -8.63e-05  
## 3106 1.53e-04 -6.25e-03 -1.80e-03 -2.08e-03 -2.10e-03 -2.11e-03 -2.74e-03  
## 3107 -1.29e-03 -1.30e-02 1.05e-02 -4.61e-02 7.96e-03 -5.40e-02 -4.43e-03  
## 3108 -1.07e-05 9.45e-05 2.80e-05 7.68e-05 -2.80e-04 8.59e-05 -3.01e-04  
## 3109 1.09e-02 3.23e-03 1.83e-02 7.87e-03 2.21e-02 9.80e-03 -1.23e-02  
## 3110 -3.84e-03 9.28e-03 4.32e-03 7.80e-03 -1.87e-02 -2.06e-02 -1.76e-02  
## 3111 -1.72e-02 9.69e-03 2.49e-02 -6.15e-03 2.93e-02 -5.94e-03 -1.50e-02  
## 3112 -1.77e-02 -8.41e-04 -1.05e-02 1.13e-02 -1.02e-02 1.11e-02 1.97e-02  
## 3113 7.12e-04 -2.30e-03 -2.15e-03 7.84e-03 -2.51e-03 -7.26e-03 -4.30e-04  
## 3114 -2.36e-04 -4.04e-04 -5.74e-05 -5.96e-05 -5.46e-05 -7.50e-05 -1.45e-04  
## 3115 -8.25e-03 -3.59e-03 -1.37e-02 -5.08e-03 -1.21e-02 -2.89e-03 1.99e-02  
## 3116 1.43e-04 -5.49e-05 3.97e-06 -6.06e-06 9.74e-07 -7.52e-06 -7.77e-06  
## 3117 1.31e-02 -3.41e-02 -1.57e-02 -1.91e-02 -1.67e-02 4.42e-02 4.91e-02  
## 3118 7.01e-04 6.52e-04 4.19e-05 1.61e-04 1.35e-04 4.37e-04 3.07e-04  
## 3119 -2.15e-02 1.13e-03 1.45e-02 1.02e-02 1.08e-02 8.31e-03 1.72e-02  
## 3120 8.23e-03 -6.11e-03 3.14e-03 2.30e-03 -1.23e-02 1.83e-03 4.73e-03  
## 3121 4.83e-05 -5.99e-03 -1.81e-03 -2.18e-03 -1.97e-03 -2.16e-03 -2.63e-03  
## 3122 1.11e-03 -4.62e-03 -5.74e-03 -5.36e-03 3.52e-03 -7.14e-03 1.94e-03  
## 3123 -7.04e-04 -8.33e-03 3.25e-02 -1.81e-02 -1.28e-02 -1.43e-02 -1.13e-02  
## 3124 -1.96e-04 -5.19e-03 -1.05e-03 -1.30e-03 -1.44e-03 -1.46e-03 -1.80e-03  
## 3125 6.09e-04 7.59e-04 -3.09e-03 7.74e-03 -4.72e-03 7.77e-03 -4.68e-03  
## 3126 -3.64e-03 4.24e-03 4.31e-03 -7.90e-03 7.55e-03 -6.60e-03 -8.14e-03  
## 3127 -3.86e-03 -4.29e-03 3.29e-03 2.80e-03 3.18e-03 3.44e-03 -6.11e-03  
## 3128 -1.65e-02 -1.36e-02 1.17e-02 1.09e-02 1.04e-02 -3.91e-02 1.91e-02  
## 3129 -1.10e-03 -8.08e-04 -2.16e-03 2.91e-03 -2.09e-03 -2.90e-03 3.59e-03  
## 3130 -6.78e-04 -1.75e-03 -2.19e-04 -3.88e-04 -5.13e-04 -8.28e-04 -7.35e-04  
## 3131 -1.04e-02 6.93e-03 -1.79e-02 -8.21e-03 -2.05e-02 3.51e-02 1.15e-02  
## 3132 2.08e-02 -1.86e-03 -1.42e-02 -1.03e-02 -9.96e-03 -7.87e-03 -1.69e-02  
## 3133 7.00e-03 -1.03e-02 -1.08e-02 1.13e-02 -8.41e-03 -1.42e-02 -2.37e-03  
## 3134 8.75e-03 -4.21e-02 -1.16e-02 -1.51e-02 -6.86e-03 -1.41e-02 -5.46e-03  
## 3135 -9.36e-03 1.76e-05 -1.87e-02 -2.46e-02 -1.89e-02 4.10e-02 -1.34e-02  
## 3136 -1.90e-02 -3.80e-03 1.32e-02 1.19e-02 -2.69e-02 1.02e-02 1.90e-02  
## 3137 1.21e-02 2.19e-02 2.56e-02 -2.74e-03 2.29e-02 3.00e-02 -2.04e-02  
## 3138 -6.03e-04 2.81e-02 8.33e-03 9.92e-03 8.72e-03 9.43e-03 1.15e-02  
## 3139 2.17e-02 6.80e-03 -2.08e-02 7.21e-03 -2.15e-02 -2.15e-02 -2.26e-02  
## 3140 -6.27e-05 -5.81e-03 -1.74e-03 -2.13e-03 -1.93e-03 -2.16e-03 -2.58e-03  
## 3141 1.63e-02 7.48e-03 2.46e-02 -7.57e-03 -7.51e-03 -7.03e-03 -1.36e-02  
## 3142 1.29e-02 1.84e-02 2.50e-02 -4.98e-03 -1.25e-02 2.84e-02 1.06e-02  
## 3143 -2.08e-02 -2.04e-02 1.24e-02 -3.49e-02 -2.18e-02 1.49e-02 -1.30e-02  
## 3144 -1.30e-02 -2.87e-03 1.11e-02 -1.05e-02 8.00e-03 7.02e-03 7.91e-03  
## 3145 -3.39e-03 1.09e-02 5.37e-03 9.78e-03 -1.80e-02 -1.81e-02 1.11e-02  
## 3146 1.86e-03 1.05e-02 1.10e-02 1.02e-02 8.06e-03 8.60e-03 7.97e-03  
## 3147 -1.55e-02 -8.12e-03 1.25e-02 -2.17e-02 9.86e-03 9.36e-03 1.29e-02  
## 3148 -1.42e-02 -1.71e-02 1.18e-02 -1.61e-02 -1.21e-02 -1.39e-02 2.16e-02  
## 3149 1.43e-02 1.31e-02 6.35e-03 -1.35e-02 3.80e-03 6.77e-03 4.35e-04  
## 3150 -1.94e-02 -4.84e-03 -3.16e-02 9.31e-03 9.10e-03 5.07e-03 1.33e-02  
## 3151 -5.00e-04 -1.29e-03 -1.46e-04 -4.26e-05 -1.90e-04 -7.33e-05 -2.72e-04  
## 3152 -9.35e-04 -4.14e-03 -9.41e-04 -1.39e-03 -1.50e-03 -1.93e-03 -1.95e-03  
## 3153 1.12e-02 -5.02e-02 -1.47e-02 -2.14e-02 -1.09e-02 -1.73e-02 -6.12e-03  
## 3154 1.35e-02 -4.20e-02 -1.45e-02 -1.76e-02 4.51e-02 -1.57e-02 -1.03e-02  
## 3155 3.05e-02 -4.75e-03 7.64e-03 -6.19e-03 1.89e-02 1.60e-03 -2.83e-02  
## 3156 1.74e-03 3.46e-03 3.39e-03 2.23e-03 4.07e-03 3.27e-03 -5.13e-03  
## 3157 -5.57e-04 -2.72e-03 -6.48e-04 -3.70e-04 -3.17e-04 -1.67e-07 -7.85e-04  
## 3158 2.35e-02 3.03e-02 7.17e-03 7.59e-03 1.19e-02 1.01e-02 -2.31e-02  
## 3159 9.26e-03 -8.03e-04 -2.00e-02 9.90e-03 1.62e-02 6.02e-03 2.37e-02  
## 3160 -2.38e-02 -1.17e-02 -2.28e-02 7.64e-03 -2.03e-02 1.32e-02 -9.25e-03  
## 3161 -6.92e-04 -1.75e-03 -2.32e-04 -1.91e-05 -1.58e-04 -1.44e-04 -2.91e-04  
## 3162 -3.73e-03 1.04e-02 5.11e-03 8.15e-03 4.62e-03 -1.34e-02 2.09e-03  
## 3163 3.97e-03 -2.60e-03 2.80e-03 2.18e-03 2.78e-03 1.89e-03 -5.34e-03  
## 3164 -1.18e-03 -1.66e-03 -1.55e-04 -5.03e-04 -4.86e-04 -5.09e-04 -4.92e-04  
## 3165 -1.32e-03 1.54e-03 -1.53e-03 1.93e-03 -1.74e-03 -1.66e-03 -2.12e-03  
## 3166 1.30e-02 -1.27e-03 -2.32e-02 1.14e-02 2.21e-02 1.61e-02 -1.04e-02  
## 3167 -1.15e-03 -2.01e-03 -2.12e-04 4.16e-05 2.01e-04 1.04e-03 6.60e-05  
## 3168 2.26e-02 7.15e-03 2.34e-02 -7.86e-03 -1.79e-02 -1.16e-02 1.14e-02  
## 3169 -8.74e-04 -2.64e-03 -6.07e-04 -2.32e-04 -2.69e-04 -2.16e-04 -7.53e-04  
## 3170 -4.55e-03 8.76e-03 9.80e-03 7.94e-03 1.29e-02 9.73e-03 -8.86e-03  
## 3171 2.16e-02 -4.39e-04 -1.09e-02 -7.23e-03 -1.43e-02 -4.73e-03 -2.24e-02  
## 3172 1.34e-03 -3.64e-04 1.05e-06 9.93e-05 9.45e-05 6.49e-05 -2.52e-05  
## 3173 1.06e-03 8.38e-04 -4.17e-03 1.88e-03 1.94e-03 1.97e-03 3.14e-03  
## 3174 4.48e-02 8.68e-03 -3.71e-02 3.76e-02 -3.32e-02 -2.40e-02 3.48e-02  
## 3175 -1.06e-03 -1.56e-03 -1.70e-04 3.21e-05 7.93e-05 7.96e-04 5.89e-05  
## 3176 -1.07e-04 -6.36e-03 -1.69e-03 -2.03e-03 -2.04e-03 -2.14e-03 -2.61e-03  
## 3177 -1.56e-03 -1.25e-03 1.23e-03 1.06e-03 1.25e-03 9.73e-04 -2.44e-03  
## 3178 -1.71e-02 1.89e-04 1.40e-02 1.31e-02 1.87e-02 -8.81e-03 -3.93e-04  
## 3179 -2.43e-03 -1.08e-02 -9.45e-03 -5.71e-03 -1.09e-02 -6.47e-03 2.82e-02  
## 3180 -6.76e-04 -1.25e-03 6.17e-04 -1.32e-03 4.59e-04 5.55e-04 5.68e-04  
## 3181 -4.64e-03 -1.73e-02 -1.43e-02 -1.49e-02 -1.20e-02 -1.04e-02 -8.69e-03  
## 3182 2.05e-03 1.48e-03 -3.09e-04 -7.95e-04 -4.40e-04 -5.63e-04 -7.05e-05  
## 3183 -1.95e-02 -7.23e-03 -1.60e-02 9.56e-03 -1.90e-02 9.94e-03 -1.45e-02  
## 3184 9.58e-03 -3.07e-02 -1.45e-02 3.92e-02 -7.82e-03 -1.93e-02 -2.46e-03  
## 3185 -7.54e-04 -4.43e-03 -8.20e-04 -1.01e-03 -1.39e-03 -1.84e-03 -1.56e-03  
## 3186 -3.26e-04 1.83e-04 9.29e-04 1.08e-03 -2.84e-04 -5.06e-04 -2.89e-04  
## 3187 2.40e-03 5.28e-03 -2.27e-02 8.04e-03 7.12e-03 6.20e-03 4.89e-03  
## 3188 5.27e-04 5.17e-04 3.58e-05 5.31e-05 4.48e-06 -6.83e-05 8.41e-05  
## 3189 -3.16e-04 -1.20e-03 -1.52e-04 7.05e-04 4.37e-04 1.17e-03 2.43e-04  
## 3190 5.77e-03 -1.37e-03 3.25e-02 -1.39e-02 2.76e-02 -1.48e-02 2.75e-02  
## 3191 -1.71e-02 -1.14e-02 -2.68e-02 1.12e-02 -2.97e-02 9.97e-03 1.73e-02  
## 3192 -3.56e-04 -3.75e-03 -8.97e-04 -3.11e-04 -3.84e-04 3.59e-04 -8.99e-04  
## 3193 1.77e-02 -4.20e-02 3.81e-02 -2.02e-02 -2.46e-02 -2.84e-02 3.11e-02  
## 3194 7.66e-03 -4.81e-03 -1.68e-02 1.05e-02 -1.27e-02 1.58e-02 -5.06e-03  
## 3195 -2.62e-03 9.42e-04 -1.87e-04 -2.52e-04 -2.28e-04 -1.69e-04 2.00e-04  
## 3196 -9.02e-03 7.47e-03 2.16e-02 -1.33e-02 2.14e-02 -1.59e-02 1.05e-02  
## 3197 5.41e-03 7.97e-03 -5.10e-03 6.59e-03 7.27e-03 -4.04e-03 -4.30e-03  
## 3198 -6.60e-03 3.00e-02 6.08e-03 8.15e-03 8.16e-03 1.07e-02 1.28e-02  
## 3199 -5.20e-03 -5.26e-03 3.57e-03 3.15e-03 2.21e-03 2.15e-03 5.02e-03  
## 3200 -7.43e-04 -1.40e-03 -8.31e-05 -2.89e-04 -2.81e-04 -2.13e-04 -2.85e-04  
## 3201 -9.18e-06 2.31e-04 4.54e-06 1.15e-04 -9.16e-06 7.35e-05 -5.71e-05  
## 3202 -2.88e-04 -6.12e-03 -1.59e-03 -1.96e-03 -1.99e-03 -2.16e-03 -2.54e-03  
## 3203 -4.87e-04 -8.09e-03 -2.15e-03 -3.72e-03 -3.08e-03 -3.04e-03 -3.20e-03  
## 3204 7.66e-03 1.19e-02 -8.89e-03 7.06e-03 -9.06e-03 7.75e-03 8.34e-03  
## 3205 -9.89e-03 1.87e-03 -2.17e-03 6.81e-04 -5.49e-03 -2.19e-03 7.80e-03  
## 3206 2.52e-03 -2.71e-03 -3.27e-03 1.56e-03 -2.98e-03 2.18e-03 3.61e-03  
## 3207 -7.44e-04 -2.56e-03 -4.71e-04 -2.29e-04 -2.50e-04 2.38e-05 -7.69e-04  
## 3208 -1.83e-02 -5.11e-03 -1.36e-02 9.99e-03 -1.84e-02 7.69e-03 1.47e-02  
## 3209 -3.62e-04 -4.73e-06 4.64e-03 -4.62e-03 -5.76e-03 5.40e-03 3.42e-03  
## 3210 4.35e-03 3.35e-03 -1.11e-02 1.08e-02 1.18e-02 8.12e-03 1.32e-02  
## 3211 8.10e-03 -2.21e-04 -1.51e-02 1.08e-02 1.10e-02 6.39e-03 1.45e-02  
## 3212 8.50e-03 -4.14e-02 -1.35e-02 -2.23e-02 4.37e-02 -1.86e-02 -1.11e-02  
## 3213 -2.47e-04 -8.75e-03 -2.36e-03 -4.08e-03 -3.48e-03 -3.34e-03 -3.08e-03  
## 3214 -5.15e-03 3.08e-04 -1.44e-03 4.17e-03 -2.49e-03 3.54e-03 4.05e-03  
## 3215 4.96e-03 -1.15e-03 -1.64e-04 4.20e-04 2.24e-04 5.67e-04 8.22e-05  
## 3216 -3.44e-03 -4.99e-03 -6.59e-03 1.95e-03 2.35e-03 2.20e-03 -6.61e-03  
## 3217 5.04e-03 1.16e-04 9.79e-03 1.11e-02 8.59e-03 -2.31e-02 7.98e-03  
## 3218 -4.86e-03 2.30e-02 6.34e-03 9.82e-03 5.18e-03 8.54e-03 2.14e-03  
## 3219 3.67e-03 4.10e-03 -1.91e-02 1.06e-02 8.17e-03 8.69e-03 5.35e-03  
## 3220 -3.23e-02 -2.06e-02 -5.98e-03 -7.16e-03 -1.23e-02 3.38e-02 2.70e-02  
## 3221 -7.56e-03 1.57e-02 7.28e-03 -2.82e-02 1.07e-02 1.30e-02 -2.31e-02  
## 3222 -3.74e-04 -6.30e-03 -1.67e-03 -2.14e-03 -1.88e-03 -2.23e-03 -2.43e-03  
## 3223 -8.09e-03 2.79e-02 8.63e-03 9.17e-03 7.85e-03 9.66e-03 -2.71e-02  
## 3224 3.87e-03 -7.20e-04 -8.53e-03 1.11e-02 -7.68e-03 1.36e-02 -1.63e-03  
## 3225 -1.08e-02 1.19e-03 -4.92e-03 -6.32e-04 -8.32e-03 -3.62e-03 9.17e-03  
## 3226 2.22e-03 1.49e-03 -2.61e-04 -7.34e-04 -3.94e-04 -4.35e-04 -9.42e-05  
## 3227 -2.39e-03 -2.02e-03 -1.54e-02 -1.45e-02 -1.28e-02 -1.23e-02 -1.32e-02  
## 3228 -1.34e-03 2.53e-03 -2.32e-03 -1.87e-03 1.44e-03 2.39e-03 6.70e-04  
## 3229 3.56e-03 7.56e-03 1.05e-02 8.73e-03 -2.95e-02 7.48e-03 9.75e-03  
## 3230 -2.85e-04 -3.86e-04 3.37e-06 2.27e-04 1.29e-04 2.86e-04 6.88e-05  
## 3231 2.00e-04 1.47e-03 1.47e-03 1.33e-03 1.82e-03 1.68e-03 -1.11e-03  
## 3232 1.87e-02 1.97e-02 -1.89e-02 9.11e-03 4.26e-03 6.88e-03 1.50e-03  
## 3233 1.51e-03 1.16e-03 -1.23e-04 -1.15e-04 -7.21e-05 -1.28e-04 -3.59e-05  
## 3234 -3.03e-05 -4.10e-05 4.19e-07 2.08e-05 1.31e-05 2.70e-05 3.16e-06  
## 3235 -4.62e-03 1.39e-02 6.92e-03 9.15e-03 4.72e-03 -1.78e-02 3.62e-03  
## 3236 -8.03e-03 1.27e-02 1.86e-02 3.23e-02 -4.85e-02 -3.84e-02 1.39e-02  
## 3237 -4.22e-04 2.81e-02 8.20e-03 9.81e-03 8.58e-03 9.34e-03 1.12e-02  
## 3238 -2.86e-04 -1.33e-03 -1.41e-04 5.92e-04 3.99e-04 1.22e-03 2.67e-04  
## 3239 2.07e-03 3.47e-03 -2.27e-02 8.60e-03 1.05e-02 9.62e-03 1.47e-02  
## 3240 2.16e-02 1.58e-02 6.45e-03 -2.22e-02 3.30e-03 8.14e-03 2.21e-04  
## 3241 2.70e-02 2.86e-02 3.02e-02 -2.62e-02 3.61e-02 4.31e-02 -2.96e-02  
## 3242 8.13e-03 -4.10e-02 -9.73e-03 -1.36e-02 -1.18e-02 -1.55e-02 4.31e-02  
## 3243 5.40e-05 -7.43e-04 -4.20e-04 4.73e-03 -9.17e-05 -1.38e-03 7.04e-04  
## 3244 -8.60e-03 -8.69e-06 -4.87e-03 -9.84e-04 -6.43e-03 -4.35e-04 -1.38e-02  
## 3245 -5.10e-03 1.57e-02 -1.87e-02 9.60e-03 -2.29e-02 8.62e-03 5.23e-03  
## 3246 -1.24e-03 -5.03e-03 -1.35e-03 -1.65e-03 -9.53e-04 -6.95e-04 -9.11e-04  
## 3247 -1.04e-02 1.67e-02 2.11e-02 3.65e-02 -2.07e-02 -1.10e-02 1.69e-02  
## 3248 1.31e-02 7.32e-03 6.67e-03 -9.63e-03 5.60e-03 -1.08e-02 4.29e-03  
## 3249 1.11e-02 -1.37e-02 1.59e-02 -2.88e-02 -1.79e-02 1.24e-02 -9.56e-03  
## 3250 -2.79e-02 -1.79e-02 -3.69e-02 2.07e-03 -3.16e-02 9.40e-03 -1.63e-02  
## 3251 7.30e-04 -4.83e-03 -1.77e-03 -5.49e-03 1.01e-02 -6.06e-03 -1.72e-03  
## 3252 4.52e-03 -1.67e-03 3.31e-03 3.18e-03 2.73e-03 2.85e-03 4.05e-03  
## 3253 -2.33e-02 -7.53e-03 -2.90e-02 5.89e-03 1.85e-02 1.12e-02 -1.55e-02  
## 3254 4.78e-03 1.09e-02 1.06e-02 1.04e-02 8.47e-03 1.01e-02 7.90e-03  
## 3255 -1.98e-02 8.04e-04 1.31e-02 1.24e-02 1.14e-02 9.31e-03 1.68e-02  
## 3256 2.90e-02 2.01e-02 2.76e-02 -2.04e-02 -1.81e-02 4.39e-02 -2.43e-02  
## 3257 5.55e-03 -3.06e-03 2.88e-03 2.73e-03 2.28e-03 1.59e-03 3.12e-03  
## 3258 -1.59e-02 1.38e-06 -2.04e-02 -1.46e-02 2.82e-02 -1.21e-02 2.32e-02  
## 3259 -7.26e-03 -4.23e-03 -3.08e-03 6.54e-03 -5.04e-03 -6.92e-03 6.32e-03  
## 3260 -1.79e-02 -1.97e-02 1.38e-02 1.07e-02 -2.77e-02 -3.34e-02 -1.86e-02  
## 3261 2.84e-02 -3.70e-03 -2.08e-02 -1.56e-02 -1.44e-02 -9.85e-03 -2.27e-02  
## 3262 3.96e-03 2.46e-03 -6.71e-04 -1.27e-03 -6.89e-04 -6.24e-04 6.07e-05  
## 3263 -1.52e-05 -2.10e-05 -7.14e-07 9.26e-08 -2.26e-06 -4.73e-06 -4.31e-06  
## 3264 1.48e-02 1.53e-02 6.91e-03 -1.48e-02 1.07e-02 1.22e-02 -1.35e-02  
## 3265 8.20e-05 -4.12e-05 -3.61e-06 -1.06e-05 -8.59e-06 -1.93e-05 -1.88e-05  
## 3266 3.06e-02 -2.24e-02 9.69e-03 3.40e-03 2.05e-02 -5.34e-02 -1.93e-02  
## 3267 -8.44e-03 4.46e-03 1.67e-02 7.31e-04 -7.30e-03 -9.73e-04 8.85e-03  
## 3268 -1.68e-02 1.10e-02 -7.02e-03 2.85e-02 -5.16e-03 -5.28e-03 -1.02e-02  
## 3269 3.05e-02 -5.99e-03 -2.25e-02 -1.90e-02 -1.73e-02 -1.23e-02 -2.16e-02  
## 3270 -1.87e-02 -1.78e-02 -1.64e-02 9.84e-03 -1.45e-02 -2.24e-02 -6.22e-03  
## 3271 -7.53e-04 -1.29e-03 -1.88e-04 5.42e-04 4.97e-04 9.87e-04 1.32e-04  
## 3272 1.33e-02 1.38e-03 -6.54e-03 -3.98e-03 -8.47e-03 -5.46e-03 -1.88e-02  
## 3273 -5.92e-04 -2.47e-03 -4.42e-04 -4.05e-05 -2.08e-04 -3.39e-05 -3.94e-04  
## 3274 3.09e-04 6.20e-04 -2.89e-04 5.79e-04 6.07e-04 -2.80e-04 -2.93e-04  
## 3275 -1.65e-03 2.44e-03 2.68e-03 -2.28e-03 2.50e-03 -2.94e-03 1.48e-03  
## 3276 2.38e-03 -3.24e-03 2.58e-03 1.82e-03 2.92e-03 -4.21e-03 -1.63e-03  
## 3277 -1.85e-02 3.69e-03 -8.26e-03 1.21e-02 1.84e-02 1.57e-02 -1.64e-03  
## 3278 2.05e-03 2.15e-04 -5.38e-03 8.42e-03 -3.98e-03 9.51e-03 -2.28e-03  
## 3279 5.82e-04 5.78e-04 -3.99e-05 8.68e-05 1.26e-04 2.21e-04 1.22e-04  
## 3280 1.01e-02 4.51e-03 1.81e-02 9.08e-03 1.53e-02 8.41e-03 -2.07e-02  
## 3281 4.99e-03 -3.99e-03 3.27e-03 2.67e-03 -6.33e-03 2.64e-03 -5.40e-03  
## 3282 -7.88e-03 -3.27e-03 -1.36e-02 -3.75e-03 -1.57e-02 -4.97e-03 1.08e-02  
## 3283 -1.47e-02 8.30e-03 -1.32e-02 -1.08e-02 -2.10e-02 2.66e-02 6.37e-03  
## 3284 -5.46e-04 -9.99e-04 -5.85e-06 6.08e-04 3.90e-04 8.66e-04 2.73e-04  
## 3285 8.88e-03 -1.59e-03 -1.48e-02 9.42e-03 1.25e-02 8.40e-03 -1.79e-02  
## 3286 5.04e-03 -3.27e-03 8.32e-03 -1.75e-02 -1.94e-02 1.09e-02 5.92e-03  
## 3287 -2.22e-03 3.12e-03 3.79e-03 -4.58e-03 2.72e-03 -6.34e-03 1.25e-03  
## 3288 5.05e-03 7.51e-04 -3.18e-02 6.26e-03 1.56e-02 1.32e-02 -2.37e-02  
## 3289 2.94e-02 2.56e-02 -3.18e-02 6.96e-03 6.33e-03 9.02e-03 1.07e-02  
## 3290 1.49e-02 -7.25e-04 -9.84e-03 -8.24e-03 -7.07e-03 -5.83e-03 -1.50e-02  
## 3291 -6.20e-03 -5.91e-03 3.72e-03 2.68e-03 4.52e-03 3.07e-03 9.17e-03  
## 3292 -6.38e-03 1.79e-02 7.18e-03 8.13e-03 -1.91e-02 7.52e-03 3.99e-03  
## 3293 3.03e-03 2.20e-03 2.55e-03 -2.21e-03 -1.65e-03 -1.48e-03 -2.18e-03  
## 3294 -1.78e-04 -6.28e-03 -1.65e-03 -2.00e-03 -2.02e-03 -2.14e-03 -2.58e-03  
## 3295 5.72e-04 -3.57e-03 -6.79e-04 -2.56e-03 -7.28e-04 -2.07e-03 -1.89e-04  
## 3296 -6.55e-04 -1.20e-03 -9.28e-05 4.06e-05 -1.44e-04 -1.60e-04 -2.27e-04  
## 3297 1.33e-02 -7.65e-04 -7.24e-03 -3.90e-03 -5.17e-03 -2.25e-03 -1.02e-02  
## 3298 -1.44e-02 7.11e-03 2.51e-02 -9.09e-03 1.98e-02 -1.74e-02 8.58e-03  
## 3299 -1.95e-02 5.86e-03 2.76e-02 -7.75e-03 -7.09e-03 -5.49e-03 -1.11e-02  
## 3300 1.31e-04 -1.02e-03 -1.70e-03 8.09e-03 -7.12e-04 -4.60e-03 7.50e-04  
## 3301 9.85e-03 5.65e-03 1.82e-02 8.22e-03 2.21e-02 7.71e-03 -1.44e-02  
## 3302 -1.57e-02 -1.90e-02 -2.65e-02 1.24e-02 9.63e-03 -3.48e-02 1.78e-02  
## 3303 2.70e-03 4.03e-03 -2.43e-03 3.87e-03 3.91e-03 -1.86e-03 -2.06e-03  
## 3304 8.60e-03 -1.99e-03 -6.52e-04 3.23e-04 4.50e-04 9.69e-04 -6.88e-05  
## 3305 -7.43e-04 -1.87e-03 -2.82e-04 -1.56e-04 -1.92e-04 -6.49e-05 -5.92e-04  
## 3306 1.28e-02 -1.52e-04 -6.12e-03 -3.22e-03 -7.94e-03 -3.25e-03 1.94e-02  
## 3307 -8.66e-04 -3.14e-03 -1.04e-02 -1.40e-02 6.51e-03 6.79e-03 -1.62e-02  
## 3308 7.22e-05 -6.72e-03 -1.94e-03 -2.33e-03 -2.03e-03 -2.22e-03 -2.64e-03  
## 3309 1.39e-04 -6.26e-03 -1.88e-03 -2.22e-03 -1.91e-03 -2.06e-03 -2.72e-03  
## 3310 -1.39e-02 -1.22e-03 -9.53e-03 1.18e-02 -1.16e-02 1.09e-02 1.31e-02  
## 3311 1.20e-03 -3.68e-03 -3.86e-03 7.79e-03 -3.25e-03 -9.16e-03 -1.61e-03  
## 3312 1.07e-03 -3.63e-03 -9.70e-03 -9.70e-03 -8.66e-03 8.94e-03 -1.18e-02  
## 3313 3.76e-03 -2.54e-03 2.78e-03 2.60e-03 -4.60e-03 3.18e-03 5.91e-03  
## 3314 -6.93e-03 -1.04e-02 -1.60e-02 -1.88e-02 3.79e-02 -1.72e-02 -1.46e-02  
## 3315 6.40e-03 -1.89e-02 -6.12e-03 3.87e-02 -1.19e-02 -1.59e-02 3.13e-02  
## 3316 -8.22e-03 1.61e-02 6.54e-03 -2.45e-02 7.12e-03 7.09e-03 7.05e-03  
## 3317 -8.82e-04 2.47e-04 -5.08e-05 -9.52e-05 -8.28e-05 -2.70e-05 1.48e-05  
## 3318 -9.79e-03 -3.49e-04 -4.87e-03 -9.44e-04 -5.84e-03 -8.39e-04 -1.35e-02  
## 3319 -9.01e-04 -3.38e-03 -4.44e-04 -7.77e-04 -1.17e-03 -1.43e-03 -1.24e-03  
## 3320 -1.81e-02 -6.01e-03 1.14e-02 1.15e-02 -3.38e-02 1.05e-02 2.03e-02  
## 3321 -1.18e-02 1.40e-03 -4.34e-03 -1.56e-03 -6.25e-03 -2.82e-03 -1.51e-02  
## 3322 2.31e-02 -2.72e-02 3.81e-02 -2.78e-02 3.91e-02 4.03e-02 4.84e-02  
## 3323 1.02e-03 1.02e-03 -3.47e-03 8.45e-03 -3.95e-03 7.65e-03 1.28e-02  
## 3324 -2.13e-02 -3.45e-04 1.31e-02 9.80e-03 9.92e-03 8.65e-03 1.98e-02  
## 3325 -5.69e-03 1.45e-02 7.56e-03 1.00e-02 5.29e-03 -1.82e-02 4.18e-03  
## 3326 -7.87e-03 -1.90e-03 -2.18e-02 -7.67e-03 2.05e-02 -9.49e-03 1.12e-02  
## 3327 8.96e-03 -4.57e-02 -1.25e-02 -1.93e-02 -9.82e-03 -1.63e-02 -6.19e-03  
## 3328 -1.64e-04 -5.12e-04 -5.49e-05 1.75e-04 1.28e-04 3.81e-04 3.61e-06  
## 3329 -1.09e-02 8.43e-03 2.07e-02 -1.03e-02 2.04e-02 -1.45e-02 9.21e-03  
## 3330 1.51e-02 -7.22e-03 -2.47e-03 -3.48e-03 -2.82e-03 -3.82e-03 -3.57e-03  
## 3331 1.31e-03 9.16e-04 -1.96e-04 -5.57e-04 -2.76e-04 -3.94e-04 -1.28e-04  
## 3332 2.35e-02 1.40e-03 1.39e-02 8.73e-03 9.67e-03 6.43e-03 2.00e-02  
## 3333 1.69e-02 1.79e-02 -1.09e-02 -9.03e-03 2.48e-02 3.17e-02 -2.91e-02  
## 3334 -5.45e-03 -4.94e-03 3.45e-03 2.78e-03 2.42e-03 2.00e-03 4.41e-03  
## 3335 -1.06e-02 -2.54e-05 -4.42e-03 4.28e-05 -4.84e-03 -6.43e-04 1.57e-02  
## 3336 -7.63e-03 1.80e-02 6.95e-03 7.22e-03 3.91e-03 3.58e-03 1.42e-03  
## 3337 -5.97e-04 -3.90e-03 -8.59e-03 -9.66e-03 -6.17e-03 1.01e-02 -6.76e-03  
## 3338 -7.15e-04 -2.52e-03 -4.60e-04 -2.28e-04 -2.12e-04 5.23e-05 -7.83e-04  
## 3339 -1.49e-02 -1.54e-03 -8.95e-03 -5.38e-03 -6.28e-03 -3.93e-03 -1.26e-02  
## 3340 7.14e-04 1.55e-03 -3.26e-03 7.93e-03 -3.48e-03 8.84e-03 -1.25e-03  
## 3341 2.88e-02 -8.09e-04 9.53e-03 1.93e-04 1.34e-02 1.00e-03 3.42e-02  
## 3342 -3.69e-04 -5.39e-04 -8.10e-06 2.63e-04 1.89e-04 3.66e-04 1.19e-04  
## 3343 -2.32e-04 2.41e-03 -3.77e-03 1.03e-02 -4.65e-03 1.13e-02 -1.44e-03  
## 3344 -1.10e-02 4.65e-03 -4.34e-03 -4.11e-04 1.58e-02 -3.87e-03 7.49e-03  
## 3345 7.80e-03 -4.28e-02 -1.08e-02 -1.42e-02 -6.51e-03 -1.36e-02 -5.14e-03  
## 3346 1.07e-02 -2.64e-02 4.02e-02 -2.43e-02 -1.08e-02 4.55e-02 -7.32e-03  
## 3347 -1.11e-02 9.76e-04 -3.69e-03 -1.46e-03 -5.24e-03 -2.47e-03 -1.37e-02  
## 3348 -2.31e-02 -9.92e-03 -3.27e-02 7.27e-03 1.48e-02 8.51e-03 2.87e-02  
## 3349 -4.19e-04 -9.29e-04 2.53e-03 -2.32e-03 2.93e-03 -2.59e-03 2.67e-03  
## 3350 3.70e-05 -3.35e-05 -5.82e-05 4.02e-04 -1.02e-04 -1.55e-04 3.70e-04  
## 3351 -3.63e-02 -4.62e-02 -1.26e-02 -1.90e-02 -8.38e-03 -1.28e-02 -6.51e-03  
## 3352 6.75e-03 -3.54e-02 -9.24e-03 -1.64e-02 3.83e-02 -1.86e-02 -2.07e-02  
## 3353 -2.02e-03 3.21e-03 3.49e-03 -5.17e-03 2.56e-03 -6.51e-03 7.96e-04  
## 3354 -1.28e-03 -6.79e-03 -1.69e-03 -3.38e-03 -2.77e-03 -3.27e-03 -2.61e-03  
## 3355 1.62e-02 5.50e-03 -9.39e-03 -4.43e-03 2.51e-02 -8.03e-03 1.92e-02  
## 3356 2.72e-03 3.04e-03 -2.76e-03 3.26e-03 -3.43e-03 -4.61e-03 2.80e-03  
## 3357 6.20e-03 -1.97e-02 4.07e-02 3.99e-02 -5.94e-03 -1.92e-02 -4.23e-04  
## 3358 -9.97e-04 -6.87e-04 -3.56e-03 4.12e-03 -2.04e-03 -2.82e-03 -2.01e-03  
## 3359 -1.49e-02 1.60e-02 -1.01e-02 3.34e-02 2.09e-02 -9.65e-03 1.21e-02  
## 3360 -4.79e-04 -9.85e-04 -1.84e-04 2.56e-04 2.54e-04 6.84e-04 -8.23e-06  
## 3361 -2.35e-02 -1.05e-04 1.52e-02 1.06e-02 -1.51e-02 1.69e-02 -5.21e-03  
## 3362 1.55e-03 7.73e-04 -1.28e-03 -1.26e-03 -9.40e-04 -7.16e-04 -1.11e-03  
## 3363 6.42e-03 -1.07e-03 -1.18e-02 1.18e-02 -1.28e-02 1.32e-02 2.38e-02  
## 3364 2.41e-02 2.05e-02 7.96e-03 -2.79e-02 3.31e-03 6.60e-03 -3.57e-04  
## 3365 -8.98e-04 -3.99e-03 -6.90e-03 -8.65e-03 -7.99e-03 4.96e-03 6.04e-03  
## 3366 3.41e-03 2.79e-02 6.15e-03 1.11e-02 1.15e-02 1.28e-02 9.03e-03  
## 3367 3.71e-03 -7.42e-03 -9.28e-03 8.94e-03 1.73e-02 -2.16e-02 -7.26e-03  
## 3368 -1.08e-02 -1.12e-03 -5.25e-03 -2.00e-03 -3.41e-03 -3.48e-04 -8.12e-03  
## 3369 7.64e-03 -2.33e-02 4.05e-02 3.89e-02 -7.21e-03 -1.55e-02 1.88e-03  
## 3370 3.76e-03 2.41e-03 -5.75e-04 -1.18e-03 -6.20e-04 -5.81e-04 1.02e-04  
## 3371 -1.99e-04 -7.53e-03 -1.79e-03 -2.95e-03 -2.98e-03 -3.03e-03 -2.29e-03  
## 3372 -2.06e-03 7.55e-04 -1.76e-05 -9.89e-05 -1.62e-04 2.79e-05 1.60e-04  
## 3373 7.75e-03 -5.05e-03 3.83e-03 3.04e-03 2.22e-03 1.91e-03 4.53e-03  
## 3374 5.60e-05 -6.21e-03 -1.74e-03 -2.04e-03 -2.07e-03 -2.11e-03 -2.69e-03  
## 3375 -6.65e-03 1.19e-03 -1.35e-03 1.51e-03 -4.20e-03 8.17e-05 6.23e-03  
## 3376 -3.10e-03 2.04e-03 3.94e-03 -4.86e-03 -3.82e-03 -3.52e-03 -4.20e-03  
## 3377 -3.75e-03 1.35e-03 -3.76e-04 -5.40e-04 -3.88e-04 -1.05e-04 2.86e-05  
## 3378 -1.35e-02 -3.70e-04 -7.37e-03 -4.52e-03 -5.92e-03 -2.80e-03 -1.18e-02  
## 3379 1.59e-02 4.61e-03 -1.05e-02 -8.71e-03 2.91e-02 -7.57e-03 -1.81e-02  
## 3380 -1.03e-02 1.57e-03 -5.04e-03 -5.80e-04 -8.67e-03 -3.71e-03 8.48e-03  
## 3381 2.35e-03 2.48e-03 2.55e-03 -2.30e-03 2.48e-03 -2.63e-03 2.28e-03  
## 3382 -4.54e-04 -6.17e-03 -1.49e-03 -1.90e-03 -1.92e-03 -2.14e-03 -2.43e-03  
## 3383 -2.39e-03 2.85e-03 2.58e-03 -2.66e-03 -3.49e-03 1.97e-03 9.49e-04  
## 3384 -2.12e-02 -4.54e-04 1.27e-02 9.20e-03 1.00e-02 8.36e-03 2.05e-02  
## 3385 3.61e-04 4.38e-04 3.84e-05 5.03e-05 3.89e-05 1.34e-04 1.49e-04  
## 3386 5.10e-05 -6.01e-03 -1.82e-03 -2.19e-03 -1.97e-03 -2.17e-03 -2.64e-03  
## 3387 -4.82e-03 1.08e-02 4.78e-03 5.54e-03 3.15e-03 4.23e-03 2.63e-03  
## 3388 5.05e-04 -1.69e-04 1.15e-02 9.65e-03 -5.19e-04 -4.15e-03 1.76e-03  
## 3389 9.84e-03 8.17e-03 -9.22e-03 -8.10e-03 4.39e-03 7.63e-03 1.69e-03  
## 3390 1.89e-03 -4.00e-03 -2.97e-03 -5.43e-03 -5.46e-03 4.49e-03 5.03e-03  
## 3391 -7.73e-03 -1.75e-03 -2.27e-03 -4.08e-03 7.66e-03 6.56e-03 -1.77e-03  
## 3392 -1.96e-03 -1.94e-03 1.35e-03 1.53e-03 1.01e-03 9.31e-04 1.57e-03  
## 3393 1.71e-03 -3.91e-03 -3.22e-03 -6.20e-03 -4.61e-03 8.08e-03 1.18e-02  
## 3394 7.63e-03 9.82e-03 6.14e-03 7.53e-03 -5.22e-03 -5.07e-03 -4.89e-03  
## 3395 1.77e-02 8.40e-04 1.34e-02 8.22e-03 1.51e-02 8.34e-03 -2.72e-02  
## 3396 3.44e-04 3.14e-04 -1.42e-06 4.19e-06 -6.76e-06 -6.62e-05 3.99e-05  
## 3397 -1.37e-02 5.75e-03 2.14e-02 -1.80e-03 -5.99e-03 -3.22e-03 -1.52e-02  
## 3398 -3.58e-04 -6.26e-03 -1.53e-03 -1.89e-03 -1.77e-03 -1.93e-03 -2.58e-03  
## 3399 -1.37e-03 2.37e-03 -2.13e-03 -1.73e-03 1.45e-03 2.54e-03 6.80e-04  
## 3400 1.67e-03 -4.60e-03 8.99e-03 -5.49e-03 6.05e-03 -8.47e-03 6.43e-03  
## 3401 -9.63e-04 -1.88e-03 -1.93e-04 -1.04e-04 -2.00e-04 -1.32e-04 -4.70e-04  
## 3402 -4.27e-04 -2.54e-04 -1.44e-06 -6.56e-05 -3.43e-06 -9.12e-05 -7.44e-05  
## 3403 9.64e-03 -3.87e-02 4.00e-02 -2.11e-02 -9.50e-03 -1.79e-02 -3.70e-03  
## 3404 3.61e-04 -2.77e-03 -8.94e-04 -2.63e-03 -5.05e-04 -2.16e-03 -1.29e-04  
## 3405 8.30e-03 -4.25e-02 -9.80e-03 -1.39e-02 -1.23e-02 -1.63e-02 4.72e-02  
## 3406 -4.12e-03 -1.51e-03 1.69e-02 -1.15e-02 -2.68e-02 -1.03e-02 1.19e-02  
## 3407 -1.00e-03 2.71e-03 -5.84e-03 -3.24e-03 3.68e-03 -3.13e-03 2.33e-03  
## 3408 -2.45e-02 1.31e-03 1.60e-02 8.89e-03 1.90e-02 1.07e-02 -1.14e-02  
## 3409 -1.31e-04 -5.42e-04 1.71e-03 -9.52e-04 -1.35e-03 -1.02e-03 1.52e-03  
## 3410 -3.66e-03 -2.34e-02 -4.60e-02 -3.35e-02 -3.87e-02 -2.87e-02 2.24e-02  
## 3411 -5.68e-03 1.49e-02 6.65e-03 -2.60e-02 9.32e-03 1.21e-02 -2.12e-02  
## 3412 -3.20e-03 7.20e-03 -1.20e-02 9.09e-03 4.36e-03 -1.30e-02 2.56e-03  
## 3413 3.83e-03 -7.87e-03 -6.61e-03 -1.22e-02 -6.43e-03 9.27e-03 -4.85e-03  
## 3414 -3.57e-03 3.71e-05 -2.83e-04 3.29e-03 3.43e-03 -1.19e-03 -5.96e-04  
## 3415 1.62e-02 9.27e-03 -1.64e-02 -1.90e-02 5.19e-03 8.11e-03 -2.41e-02  
## 3416 -1.69e-04 1.32e-03 1.66e-04 5.90e-04 6.87e-04 8.40e-04 -2.60e-03  
## 3417 7.42e-05 7.49e-05 -2.43e-04 1.62e-04 8.64e-05 1.02e-04 1.06e-04  
## 3418 7.04e-03 -3.29e-02 -1.54e-02 3.65e-02 -1.03e-02 -2.29e-02 -4.27e-03  
## 3419 1.36e-02 2.34e-03 -6.07e-03 -1.66e-03 -1.06e-02 -5.74e-03 1.00e-02  
## 3420 -1.98e-02 5.35e-03 1.52e-02 1.41e-02 1.28e-02 1.21e-02 1.74e-02  
## 3421 1.41e-02 5.73e-04 -8.34e-03 -5.99e-03 -6.65e-03 -5.57e-03 -1.31e-02  
## 3422 1.87e-02 3.74e-04 1.47e-02 4.75e-03 2.13e-02 8.59e-03 -1.76e-02  
## 3423 -9.94e-03 1.40e-02 -2.88e-02 4.14e-02 2.85e-02 -1.32e-02 2.96e-02  
## 3424 7.65e-04 9.76e-04 7.75e-06 -2.01e-05 1.03e-04 2.20e-04 2.82e-04  
## 3425 -7.14e-03 -3.43e-03 -2.91e-03 -4.16e-03 -3.34e-03 6.67e-03 8.64e-03  
## 3426 -1.09e-02 4.29e-03 -9.25e-03 -2.92e-03 1.75e-02 -6.56e-03 7.76e-03  
## 3427 -1.92e-03 -2.22e-03 1.20e-03 1.51e-03 8.61e-04 8.47e-04 1.54e-03  
## 3428 2.71e-03 -4.86e-03 -4.67e-03 -9.52e-03 -4.57e-03 1.02e-02 -2.69e-03  
## 3429 -2.77e-03 6.49e-03 5.65e-03 -8.95e-03 4.93e-03 -9.05e-03 3.13e-03  
## 3430 -2.17e-02 -1.64e-03 1.29e-02 9.19e-03 1.05e-02 8.55e-03 1.96e-02  
## 3431 -1.14e-03 -3.25e-03 -6.55e-04 -1.05e-03 -6.65e-04 -4.32e-04 -9.55e-04  
## 3432 9.19e-03 1.57e-02 -9.66e-03 8.42e-03 5.12e-03 7.62e-03 3.49e-03  
## 3433 -1.06e-02 6.14e-04 -6.92e-03 -1.64e-03 -1.10e-02 -4.17e-03 9.58e-03  
## 3434 3.25e-03 -1.36e-02 1.02e-02 -3.86e-02 6.46e-03 -4.54e-02 1.01e-04  
## 3435 -3.07e-03 -2.81e-03 2.09e-03 2.27e-03 1.77e-03 1.50e-03 2.45e-03  
## 3436 -2.96e-03 4.04e-03 -5.10e-03 -4.64e-03 -6.61e-03 5.48e-03 2.44e-03  
## 3437 -1.97e-02 -1.58e-02 1.37e-02 8.31e-03 -1.75e-02 -2.71e-02 -7.86e-03  
## 3438 -1.19e-02 -1.28e-02 -7.71e-03 -1.14e-02 -7.98e-03 -1.10e-02 -8.62e-03  
## 3439 -8.34e-05 1.38e-04 5.89e-03 -7.17e-03 -8.07e-03 7.29e-03 4.60e-03  
## 3440 6.42e-03 -6.07e-03 -1.14e-02 1.16e-02 1.84e-02 -1.67e-02 -4.71e-03  
## 3441 3.17e-03 -5.25e-03 -5.18e-03 -1.03e-02 -5.18e-03 1.13e-02 -2.97e-03  
## 3442 6.62e-03 2.06e-03 -1.14e-02 1.28e-02 1.21e-02 1.07e-02 1.35e-02  
## 3443 9.59e-03 -2.85e-02 -1.28e-02 -2.28e-02 -1.84e-02 4.04e-02 -2.28e-02  
## 3444 3.80e-03 -2.86e-04 -7.36e-03 1.13e-02 -9.69e-03 1.17e-02 -7.52e-03  
## 3445 -8.97e-05 2.13e-03 -4.70e-03 9.73e-03 -4.80e-03 1.05e-02 -1.80e-03  
## 3446 -1.89e-02 6.55e-03 1.40e-02 1.03e-02 1.11e-02 7.04e-03 1.19e-02  
## 3447 -5.54e-03 2.89e-02 7.46e-03 9.78e-03 4.58e-03 9.32e-03 3.80e-03  
## 3448 5.76e-04 4.92e-03 1.45e-02 9.77e-03 -4.25e-03 1.08e-02 -9.05e-04  
## 3449 -1.86e-04 1.99e-03 -1.74e-02 9.11e-03 -2.24e-02 5.86e-03 8.08e-03  
## 3450 9.97e-03 3.02e-03 -3.48e-03 -3.19e-04 -7.86e-03 -4.16e-03 8.46e-03  
## 3451 -4.76e-04 -5.99e-04 -7.78e-04 4.02e-04 2.87e-04 2.48e-04 3.59e-04  
## 3452 1.36e-05 -8.50e-03 -2.45e-03 -4.08e-03 -3.53e-03 -3.30e-03 -3.23e-03  
## 3453 2.25e-02 5.54e-04 -1.32e-02 -6.04e-03 -1.71e-02 -9.87e-03 1.26e-02  
## 3454 6.66e-03 -1.78e-03 -1.46e-04 2.38e-05 -1.02e-05 4.86e-04 2.61e-04  
## 3455 -1.89e-02 -8.17e-03 1.53e-02 1.03e-02 -9.09e-03 -1.77e-02 -3.31e-03  
## 3456 -4.77e-04 5.87e-04 -4.93e-04 -4.96e-04 3.38e-04 4.71e-04 1.22e-04  
## 3457 -1.20e-02 7.10e-04 -5.12e-03 -2.06e-03 -6.78e-03 -3.11e-03 -1.61e-02  
## 3458 1.07e-02 -7.75e-03 1.69e-02 -2.81e-02 1.42e-02 1.03e-02 -2.08e-02  
## 3459 -2.21e-02 -4.17e-03 -1.96e-02 9.70e-03 1.44e-02 8.78e-03 2.31e-02  
## 3460 -6.31e-03 2.76e-02 7.77e-03 9.77e-03 4.89e-03 9.19e-03 3.84e-03  
## 3461 -1.46e-03 5.91e-04 -9.44e-05 5.48e-06 -1.14e-05 6.13e-05 7.55e-06  
## 3462 1.03e-02 1.77e-03 -3.62e-03 4.63e-04 -7.11e-03 -2.02e-03 7.96e-03  
## 3463 -3.72e-05 -5.63e-03 -1.38e-03 -1.47e-03 -1.63e-03 -1.96e-03 -1.87e-03  
## 3464 -3.18e-02 -1.16e-03 1.53e-02 3.17e-03 2.21e-02 7.86e-03 -1.95e-02  
## 3465 -4.80e-03 1.28e-02 6.84e-03 -1.62e-02 4.07e-03 8.39e-03 2.13e-03  
## 3466 -9.48e-04 -1.68e-03 -1.53e-04 -9.75e-05 -1.89e-04 -1.68e-04 -4.22e-04  
## 3467 4.02e-03 -1.66e-03 -1.06e-02 9.77e-03 -1.10e-02 9.26e-03 -6.97e-03  
## 3468 -1.18e-02 1.68e-02 -2.45e-02 -1.45e-02 1.87e-02 3.58e-02 7.65e-03  
## 3469 1.69e-03 -3.29e-03 -4.34e-03 -1.03e-02 7.77e-03 4.69e-03 7.89e-03  
## 3470 -4.00e-04 -3.22e-03 -5.57e-04 1.60e-04 -2.13e-04 3.04e-04 -4.00e-04  
## 3471 3.75e-04 1.26e-03 1.69e-02 -1.38e-02 1.76e-02 1.13e-02 -4.29e-03  
## 3472 1.84e-02 3.36e-03 1.52e-02 9.67e-03 1.01e-02 6.47e-03 1.81e-02  
## 3473 1.88e-02 1.37e-02 6.86e-03 -2.10e-02 -1.65e-02 1.47e-02 -1.58e-02  
## 3474 9.37e-03 -4.34e-02 -1.23e-02 -1.57e-02 -7.07e-03 -1.42e-02 -6.05e-03  
## 3475 2.91e-03 1.88e-03 -1.80e-04 -5.47e-04 -5.26e-04 -2.95e-04 2.47e-04  
## 3476 2.44e-02 2.99e-02 7.43e-03 1.11e-02 5.14e-03 8.54e-03 2.73e-03  
## 3477 -7.00e-03 2.20e-02 7.36e-03 8.34e-03 4.46e-03 7.22e-03 2.60e-03  
## 3478 -1.56e-02 -7.90e-03 -2.12e-02 1.07e-02 -2.46e-02 8.93e-03 1.43e-02  
## 3479 -2.32e-02 -6.45e-03 1.57e-02 -2.70e-02 1.44e-02 7.47e-03 2.08e-02  
## 3480 -1.55e-02 2.74e-04 -6.29e-03 -3.53e-03 -4.77e-03 -3.01e-03 -1.04e-02  
## 3481 4.26e-03 -4.08e-03 -6.61e-03 -9.94e-03 1.06e-02 9.83e-03 -9.54e-03  
## 3482 1.79e-03 1.45e-03 -2.56e-04 -7.48e-04 -4.53e-04 -6.30e-04 -2.82e-05  
## 3483 2.58e-02 3.09e-02 6.17e-03 9.18e-03 8.52e-03 9.11e-03 1.13e-02  
## 3484 1.34e-02 4.63e-04 -1.31e-02 -1.30e-02 -1.03e-02 -9.83e-03 -1.05e-02  
## 3485 1.09e-02 -3.87e-02 -1.39e-02 -1.81e-02 4.41e-02 -1.66e-02 -1.16e-02  
## 3486 -3.36e-03 3.83e-03 -4.28e-03 4.74e-03 -4.44e-03 -4.33e-03 -5.57e-03  
## 3487 4.68e-03 5.33e-03 -1.94e-02 1.14e-02 7.75e-03 9.66e-03 5.72e-03  
## 3488 -6.46e-03 2.64e-02 7.51e-03 9.54e-03 5.03e-03 9.31e-03 3.47e-03  
## 3489 -1.29e-02 8.92e-04 -8.05e-03 -3.85e-03 -8.23e-03 -4.21e-03 1.75e-02  
## 3490 -1.12e-02 -4.45e-04 -4.86e-03 -1.46e-03 -3.46e-03 -1.59e-04 -7.95e-03  
## 3491 -1.46e-02 -6.79e-03 1.15e-02 -1.81e-02 9.14e-03 8.63e-03 9.44e-03  
## 3492 -2.53e-02 2.02e-03 1.33e-02 7.57e-03 1.02e-02 3.14e-03 1.89e-02  
## 3493 3.65e-02 1.07e-02 -2.99e-02 3.72e-02 -1.99e-02 -1.77e-02 -2.35e-02  
## 3494 4.11e-04 2.72e-02 7.00e-03 8.37e-03 8.25e-03 8.61e-03 1.03e-02  
## 3495 2.66e-03 7.40e-04 -6.74e-03 1.09e-02 -8.01e-03 1.08e-02 1.94e-02  
## 3496 -4.03e-04 -4.43e-04 -5.73e-04 2.68e-04 3.34e-04 2.43e-04 4.73e-04  
## 3497 -9.35e-04 -1.32e-03 8.11e-03 -1.39e-02 -8.88e-03 1.15e-02 -8.37e-03  
## 3498 1.52e-03 -1.79e-03 -3.21e-03 8.56e-03 1.23e-02 -7.59e-03 -1.43e-03  
## 3499 3.53e-03 2.48e-03 -4.54e-04 -1.03e-03 -6.71e-04 -6.00e-04 8.50e-05  
## 3500 3.24e-03 1.03e-02 1.06e-02 1.01e-02 8.14e-03 9.20e-03 7.67e-03  
## 3501 1.80e-02 -1.58e-02 1.30e-02 -3.27e-02 -3.02e-02 9.49e-03 1.59e-02  
## 3502 -4.96e-05 -6.25e-03 -1.81e-03 -2.21e-03 -1.97e-03 -2.20e-03 -2.59e-03  
## 3503 5.85e-05 -2.98e-04 -6.18e-05 -2.04e-04 -2.94e-05 -1.14e-04 6.22e-06  
## 3504 -5.52e-03 2.89e-02 7.45e-03 9.77e-03 4.56e-03 9.31e-03 3.77e-03  
## 3505 2.32e-02 1.40e-03 1.38e-02 8.64e-03 9.55e-03 6.25e-03 1.98e-02  
## 3506 5.35e-04 -1.53e-04 -1.29e-05 1.47e-05 1.88e-05 2.71e-05 -2.82e-05  
## 3507 4.59e-03 -2.14e-03 -4.41e-04 -1.06e-03 -5.73e-04 -1.54e-03 -1.32e-03  
## 3508 -7.38e-04 -4.57e-03 -8.12e-04 -1.04e-03 -1.04e-03 -1.53e-03 -1.52e-03  
## 3509 1.24e-03 -3.10e-03 7.58e-03 -3.33e-03 -8.20e-04 -2.31e-03 6.39e-04  
## 3510 -4.22e-03 7.58e-03 -1.39e-02 -1.43e-02 3.13e-03 7.30e-03 4.39e-04  
## 3511 8.45e-03 -4.41e-02 -1.12e-02 -1.47e-02 -6.76e-03 -1.40e-02 -4.45e-03  
## 3512 6.73e-02 4.69e-02 1.08e-02 3.07e-02 8.97e-03 2.58e-02 4.71e-03  
## 3513 1.87e-04 -6.43e-03 -1.95e-03 -2.30e-03 -2.04e-03 -2.19e-03 -2.70e-03  
## 3514 8.58e-03 6.66e-03 1.98e-02 7.82e-03 1.61e-02 5.37e-03 -2.34e-02  
## 3515 -9.84e-04 -5.04e-03 -1.24e-03 -1.59e-03 -1.57e-03 -2.34e-03 -2.16e-03  
## 3516 1.60e-03 -2.34e-03 1.59e-03 1.33e-03 -1.40e-03 -2.11e-03 -6.24e-04  
## 3517 -2.19e-04 -3.98e-04 -3.87e-05 -1.11e-05 -3.68e-05 -6.10e-05 -9.59e-05  
## 3518 -3.25e-04 1.53e-03 3.55e-04 8.87e-04 -9.45e-06 6.58e-04 1.76e-05  
## 3519 -9.84e-03 -1.84e-04 -5.48e-03 -1.20e-03 -6.46e-03 -1.05e-03 -1.42e-02  
## 3520 -7.86e-03 3.53e-03 1.90e-02 -1.32e-02 2.59e-02 -1.02e-02 2.31e-02  
## 3521 9.93e-03 -3.88e-02 -1.09e-02 -1.50e-02 4.20e-02 -1.23e-02 -5.99e-03  
## 3522 -1.42e-02 7.78e-04 -6.13e-03 -3.63e-03 -5.32e-03 -2.51e-03 -1.05e-02  
## 3523 4.02e-03 2.90e-02 7.59e-03 1.45e-02 1.18e-02 1.33e-02 1.12e-02  
## 3524 -2.33e-02 -6.32e-03 1.11e-02 5.57e-03 -4.17e-02 3.94e-03 2.13e-02  
## 3525 2.33e-02 1.39e-02 7.14e-03 8.11e-03 -2.38e-02 -2.41e-02 -2.50e-02  
## 3526 -6.48e-04 -2.50e-03 -5.18e-04 -2.60e-04 -2.87e-04 1.08e-05 -8.22e-04  
## 3527 1.14e-02 -3.55e-02 -1.09e-02 -1.30e-02 3.79e-02 -1.65e-02 -2.05e-02  
## 3528 -8.78e-04 -4.77e-03 -1.14e-03 -1.46e-03 -1.18e-03 -2.65e-04 -1.06e-03  
## 3529 4.46e-02 3.90e-02 2.10e-02 3.30e-02 -4.79e-02 2.78e-02 1.15e-02  
## 3530 9.82e-04 -1.69e-03 -1.83e-03 6.64e-03 -9.69e-04 -2.98e-03 7.78e-04  
## 3531 2.81e-02 -8.35e-03 -3.97e-02 6.79e-03 6.92e-03 5.61e-03 1.78e-02  
## 3532 -3.25e-03 9.14e-03 -7.51e-03 6.81e-03 -8.46e-03 6.34e-03 3.30e-03  
## 3533 8.96e-03 4.43e-03 3.04e-04 1.21e-03 7.49e-04 1.43e-03 1.92e-03  
## 3534 1.06e-02 -4.52e-02 -1.32e-02 -1.61e-02 -7.93e-03 -1.46e-02 -6.35e-03  
## 3535 4.64e-03 2.43e-03 2.61e-04 1.16e-03 5.38e-05 6.68e-04 -3.29e-04  
## 3536 -1.65e-03 2.06e-04 7.19e-03 -1.03e-02 6.82e-03 5.82e-03 -1.32e-02  
## 3537 8.71e-04 -7.23e-03 -7.31e-03 -7.12e-03 -6.48e-03 -6.36e-03 8.04e-03  
## 3538 -3.36e-04 2.38e-03 4.54e-04 9.68e-04 3.42e-04 1.14e-03 -5.89e-03  
## 3539 -1.64e-02 8.89e-03 2.64e-02 -1.25e-02 2.75e-02 -1.20e-02 2.47e-02  
## 3540 6.11e-03 5.45e-03 2.04e-02 1.01e-02 2.08e-02 1.10e-02 -9.01e-03  
## 3541 -3.66e-03 -5.25e-03 -6.54e-03 2.51e-03 1.62e-03 1.86e-03 3.16e-03  
## 3542 -2.52e-03 -2.80e-03 2.08e-03 2.24e-03 1.30e-03 1.90e-03 2.75e-03  
## 3543 3.45e-04 -1.27e-03 4.26e-03 -1.61e-03 4.14e-03 -2.22e-03 4.54e-03  
## 3544 5.82e-03 -3.19e-03 3.60e-03 2.41e-03 5.06e-03 2.86e-03 -5.24e-03  
## 3545 2.72e-02 1.19e-02 -2.01e-02 -1.27e-02 -2.49e-02 3.34e-02 9.98e-03  
## 3546 1.28e-02 1.77e-03 -6.85e-03 -4.75e-03 -8.21e-03 -5.88e-03 -1.98e-02  
## 3547 2.58e-04 -9.63e-04 -7.68e-04 -1.97e-03 -1.02e-03 4.91e-03 5.79e-03  
## 3548 -2.35e-03 8.36e-04 6.56e-05 -2.68e-05 -7.52e-05 -5.71e-05 2.97e-04  
## 3549 -2.12e-02 4.84e-04 1.50e-02 1.19e-02 1.01e-02 9.28e-03 2.04e-02  
## 3550 -1.27e-02 -9.18e-04 -1.06e-02 -4.41e-03 -1.02e-02 -5.46e-03 1.90e-02  
## 3551 -3.72e-04 -2.76e-03 -5.73e-04 -4.34e-05 -2.21e-04 9.78e-05 -4.60e-04  
## 3552 1.24e-04 -1.05e-02 -1.92e-02 -2.59e-02 -1.75e-02 9.41e-03 -1.77e-02  
## 3553 1.15e-02 5.13e-03 1.39e-02 1.15e-02 2.09e-02 1.43e-02 -9.14e-03  
## 3554 -2.67e-04 -4.39e-04 -6.52e-05 9.03e-05 1.01e-04 2.41e-04 -3.94e-05  
## 3555 -4.84e-03 2.42e-02 6.58e-03 9.96e-03 4.87e-03 8.14e-03 2.52e-03  
## 3556 -1.71e-02 9.36e-03 -1.82e-02 -1.39e-02 -1.38e-02 3.91e-02 -2.07e-02  
## 3557 -1.09e-02 4.51e-03 1.87e-02 -3.50e-05 -5.11e-03 -6.11e-04 -1.26e-02  
## 3558 1.34e-02 -1.07e-02 1.57e-02 -3.83e-02 1.51e-02 6.75e-03 2.43e-02  
## 3559 1.36e-03 2.79e-03 -4.21e-03 9.33e-03 1.09e-02 8.32e-03 1.32e-02  
## 3560 7.79e-03 -3.37e-02 3.76e-02 -1.44e-02 -6.20e-03 -1.44e-02 -4.14e-03  
## 3561 4.82e-03 4.54e-03 -4.25e-03 5.05e-03 -4.04e-03 -4.39e-03 -3.65e-03  
## 3562 2.02e-02 2.12e-02 2.77e-02 -1.25e-02 -1.59e-02 3.60e-02 -2.99e-02  
## 3563 -1.99e-02 -2.07e-02 -2.57e-02 7.92e-03 1.81e-02 -3.16e-02 -1.33e-02  
## 3564 -6.95e-04 -2.79e-03 -6.53e-04 -4.01e-04 -3.45e-04 -8.64e-05 -7.69e-04  
## 3565 -4.43e-04 -8.43e-04 -6.28e-05 3.97e-04 2.90e-04 6.18e-04 1.77e-04  
## 3566 -9.22e-03 1.90e-02 8.52e-03 8.50e-03 -1.74e-02 9.02e-03 1.18e-02  
## 3567 -2.80e-02 4.50e-03 1.78e-02 9.27e-03 1.66e-02 6.96e-03 2.79e-02  
## 3568 -1.45e-03 -4.66e-03 -7.24e-04 -1.71e-03 -1.69e-03 -2.23e-03 -1.67e-03  
## 3569 -1.42e-04 -8.82e-03 -2.42e-03 -4.12e-03 -3.52e-03 -3.34e-03 -3.12e-03  
## 3570 -3.12e-03 2.00e-04 9.88e-03 7.34e-03 1.14e-02 -1.54e-02 -8.98e-03  
## 3571 8.46e-05 -4.72e-05 -1.79e-06 -1.61e-05 -1.67e-05 -2.88e-05 -1.85e-05  
## 3572 2.29e-02 -3.73e-02 3.77e-02 -3.56e-02 -3.07e-02 3.65e-02 -3.45e-02  
## 3573 -3.99e-03 5.71e-03 -6.82e-03 -7.39e-03 4.00e-03 5.37e-03 -1.14e-02  
## 3574 8.57e-03 4.85e-04 1.69e-02 1.16e-02 -2.15e-02 7.70e-03 1.88e-02  
## 3575 6.10e-03 -1.85e-02 -9.46e-03 -1.27e-02 3.43e-02 3.53e-02 2.72e-02  
## 3576 7.11e-03 -4.68e-03 4.69e-03 3.01e-03 4.77e-03 2.81e-03 8.96e-03  
## 3577 -2.35e-02 -2.69e-03 1.26e-02 6.18e-03 1.42e-02 9.92e-03 -3.11e-02  
## 3578 -2.77e-04 -2.59e-03 -7.44e-03 7.56e-03 -5.02e-03 -7.04e-03 -4.23e-03  
## 3579 -1.86e-02 -1.24e-02 1.26e-02 -3.35e-02 9.78e-03 9.39e-03 1.51e-02  
## 3580 -1.52e-02 -8.90e-03 1.29e-02 -1.36e-02 1.44e-02 -1.51e-02 -1.18e-02  
## 3581 -1.39e-02 2.63e-02 -1.93e-02 3.63e-02 4.11e-02 3.89e-02 -1.54e-02  
## 3582 -9.69e-03 5.04e-03 1.77e-02 1.48e-03 -6.53e-03 -1.08e-03 9.98e-03  
## 3583 2.67e-02 1.82e-02 -3.00e-02 5.93e-03 -2.89e-02 8.61e-03 1.21e-02  
## 3584 1.34e-02 2.09e-02 7.10e-03 8.49e-03 7.36e-03 6.47e-03 8.30e-03  
## 3585 -1.08e-03 -1.47e-03 -1.69e-04 -4.15e-04 -3.08e-04 -4.80e-04 -4.54e-04  
## 3586 1.48e-02 3.54e-02 2.95e-02 3.29e-02 -9.57e-03 3.46e-02 -1.51e-02  
## 3587 8.86e-03 -4.18e-02 -1.16e-02 -1.51e-02 -6.93e-03 -1.41e-02 -5.63e-03  
## 3588 1.64e-02 -6.23e-04 -1.05e-02 -7.48e-03 -7.88e-03 -6.30e-03 -1.48e-02  
## 3589 3.50e-03 3.57e-03 -2.27e-02 1.06e-02 1.17e-02 1.09e-02 1.44e-02  
## 3590 1.45e-02 2.04e-05 -7.72e-03 -4.11e-03 -5.72e-03 -2.51e-03 -1.04e-02  
## 3591 7.28e-03 -2.28e-02 4.29e-02 3.85e-02 -9.50e-03 -2.28e-02 -3.04e-04  
## 3592 -2.33e-02 -1.30e-02 1.48e-02 9.24e-03 2.11e-02 -3.27e-02 -1.05e-02  
## 3593 -7.05e-03 3.01e-02 7.64e-03 1.03e-02 5.79e-03 7.40e-03 2.35e-03  
## 3594 3.90e-03 5.37e-04 -3.13e-03 -3.23e-03 -3.85e-03 -3.85e-03 -5.03e-03  
## 3595 -1.04e-02 4.22e-03 2.18e-02 -1.70e-02 3.45e-02 -8.22e-03 -2.60e-02  
## 3596 -2.31e-04 -3.88e-04 -2.38e-05 -8.22e-05 -1.20e-04 -2.22e-04 -1.59e-04  
## 3597 9.40e-03 4.79e-03 -9.09e-03 -1.03e-02 -1.24e-02 5.74e-03 1.46e-03  
## 3598 9.10e-03 -4.64e-02 -1.26e-02 -1.95e-02 -9.83e-03 -1.64e-02 -6.00e-03  
## 3599 -8.05e-04 -2.08e-03 -3.08e-04 -5.41e-04 -6.46e-04 -1.08e-03 -8.13e-04  
## 3600 -6.27e-03 1.45e-02 -1.19e-02 7.15e-03 3.58e-03 5.68e-03 2.00e-03  
## 3601 -2.22e-04 5.07e-03 1.67e-02 1.13e-02 -4.07e-03 1.24e-02 9.12e-05  
## 3602 -2.17e-03 5.07e-03 4.44e-03 -5.52e-03 4.28e-03 -6.19e-03 2.28e-03  
## 3603 -1.35e-02 -8.17e-03 -2.43e-02 -1.87e-02 -1.80e-02 -1.10e-02 -2.22e-02  
## 3604 2.51e-03 6.96e-04 -6.11e-03 1.03e-02 -6.05e-03 1.27e-02 -1.88e-03  
## 3605 -1.16e-02 5.72e-03 -5.00e-03 -4.62e-04 1.68e-02 -4.90e-03 8.33e-03  
## 3606 -1.45e-02 -3.98e-03 -8.01e-03 1.16e-02 1.67e-02 -7.77e-03 -1.35e-03  
## 3607 1.72e-02 3.24e-03 1.48e-02 8.99e-03 1.01e-02 6.07e-03 1.73e-02  
## 3608 -4.75e-03 6.77e-03 1.05e-02 7.13e-03 -1.10e-02 1.02e-02 -9.98e-03  
## 3609 5.55e-04 5.30e-04 -1.64e-03 9.61e-04 4.31e-04 6.98e-04 7.03e-04  
## 3610 -1.23e-02 8.88e-03 2.31e-02 -5.67e-03 1.97e-02 -6.60e-03 1.08e-02  
## 3611 -6.54e-03 -6.82e-04 -1.71e-03 -3.25e-03 5.25e-03 3.95e-03 5.43e-03  
## 3612 -1.24e-03 -5.39e-03 -8.83e-03 -3.91e-03 2.42e-02 -8.04e-03 2.03e-02  
## 3613 6.83e-03 1.07e-02 -7.10e-03 6.00e-03 3.02e-03 3.45e-03 1.47e-03  
## 3614 1.00e-02 -5.87e-03 3.83e-03 2.69e-03 2.42e-03 1.64e-03 5.23e-03  
## 3615 1.04e-04 -7.08e-03 -1.58e-02 7.30e-03 -1.64e-02 -2.19e-02 -1.88e-02  
## 3616 -5.64e-03 -1.63e-02 -1.62e-02 -1.70e-02 -1.18e-02 -1.37e-02 -1.29e-02  
## 3617 -4.97e-03 -5.40e-03 2.79e-03 2.32e-03 1.91e-03 1.68e-03 3.97e-03  
## 3618 -2.72e-02 3.88e-03 1.76e-02 1.04e-02 1.27e-02 4.61e-03 1.64e-02  
## 3619 1.71e-03 -9.15e-04 -7.21e-03 1.03e-02 -1.15e-02 7.04e-03 2.08e-02  
## 3620 2.81e-03 1.73e-03 -2.19e-04 -6.05e-04 -4.44e-04 -2.75e-04 2.43e-04  
## 3621 -3.58e-03 6.19e-03 -9.36e-03 6.91e-03 3.33e-03 -1.12e-02 2.30e-03  
## 3622 -7.69e-04 -2.88e-03 -5.83e-04 -2.63e-04 -3.66e-04 -1.12e-07 -7.76e-04  
## 3623 -2.36e-03 1.75e-03 5.43e-03 -1.85e-02 -1.86e-02 -1.64e-02 -2.10e-02  
## 3624 9.74e-03 -2.66e-03 -6.71e-04 -2.96e-04 -5.16e-05 7.86e-04 3.35e-04  
## 3625 2.35e-03 3.09e-02 7.17e-03 8.98e-03 8.03e-03 8.96e-03 1.25e-02  
## 3626 9.14e-03 -2.85e-02 -1.07e-02 3.84e-02 -6.04e-03 -1.14e-02 -1.21e-04  
## 3627 1.59e-02 -1.12e-03 1.57e-02 1.04e-02 -3.17e-02 7.29e-03 2.12e-02  
## 3628 -2.56e-02 9.11e-04 1.40e-02 7.62e-03 1.01e-02 4.45e-03 2.01e-02  
## 3629 3.29e-05 -2.28e-04 -6.49e-05 -1.76e-04 -1.50e-05 -1.42e-04 -2.82e-05  
## 3630 -2.23e-03 7.14e-04 -9.81e-05 -1.92e-04 -1.60e-04 3.63e-05 1.57e-04  
## 3631 -4.28e-04 -4.46e-03 -7.93e-04 -1.02e-03 -1.37e-03 -1.39e-03 -1.69e-03  
## 3632 2.00e-03 2.88e-02 7.72e-03 9.99e-03 8.93e-03 1.07e-02 1.16e-02  
## 3633 1.09e-02 -3.77e-02 3.80e-02 -1.65e-02 -8.38e-03 -1.08e-02 -1.43e-03  
## 3634 1.06e-03 6.03e-03 1.98e-02 1.17e-02 -8.19e-03 1.30e-02 -2.80e-03  
## 3635 -1.08e-02 7.81e-03 2.21e-02 -4.90e-03 2.28e-02 -4.21e-03 -2.44e-02  
## 3636 -3.04e-03 4.64e-03 3.45e-03 4.17e-03 -2.09e-03 -1.94e-03 -2.10e-03  
## 3637 1.56e-02 -1.10e-02 -3.00e-02 3.71e-03 -2.80e-02 8.16e-03 -1.56e-02  
## 3638 1.39e-04 1.74e-04 1.78e-05 1.68e-05 2.19e-05 5.25e-05 6.65e-05  
## 3639 1.60e-03 -4.17e-04 -6.75e-06 1.22e-04 6.38e-05 1.79e-04 1.15e-05  
## 3640 -3.19e-04 -5.56e-03 -1.50e-03 -1.87e-03 -1.93e-03 -2.12e-03 -2.51e-03  
## 3641 -1.19e-02 -3.60e-03 1.09e-02 1.14e-02 -8.29e-03 -1.03e-02 1.28e-02  
## 3642 -2.47e-02 1.90e-03 1.40e-02 7.33e-03 1.02e-02 4.15e-03 1.81e-02  
## 3643 4.33e-03 4.07e-03 1.64e-02 1.29e-02 -1.12e-02 1.26e-02 2.52e-02  
## 3644 -3.74e-03 1.33e-03 -3.55e-04 -5.26e-04 -3.77e-04 -1.13e-04 4.03e-05  
## 3645 2.49e-03 -7.88e-04 -1.51e-05 -4.75e-04 -1.62e-04 -5.47e-04 -3.09e-04  
## 3646 -6.50e-05 -3.38e-05 2.31e-06 -7.98e-06 1.05e-07 -1.34e-05 -9.85e-06  
## 3647 -4.38e-03 -1.68e-02 -1.45e-02 -1.50e-02 -1.23e-02 -1.06e-02 -8.51e-03  
## 3648 -4.29e-04 -4.12e-03 -6.41e-03 -6.38e-03 8.51e-03 -4.19e-03 -4.68e-03  
## 3649 -1.94e-02 -8.38e-03 -1.96e-02 1.08e-02 -1.88e-02 1.00e-02 2.39e-02  
## 3650 -1.11e-03 -3.03e-03 -5.76e-04 -9.07e-04 -8.45e-04 -1.48e-03 -1.43e-03  
## 3651 -4.00e-03 8.71e-03 -4.13e-03 5.19e-03 3.65e-03 4.45e-03 2.16e-03  
## 3652 3.66e-03 -1.21e-03 -1.18e-04 -5.72e-05 -2.94e-05 1.93e-04 -7.15e-05  
## 3653 -2.92e-03 9.39e-03 5.55e-03 9.14e-03 -1.52e-02 -1.39e-02 3.85e-03  
## 3654 6.89e-04 -2.17e-03 -1.69e-03 -3.88e-03 -1.37e-03 6.04e-03 -1.08e-03  
## 3655 3.56e-03 -1.36e-03 8.70e-03 1.15e-02 -1.53e-02 -1.43e-02 1.03e-02  
## 3656 -1.75e-02 5.75e-03 1.35e-02 1.10e-02 1.63e-02 1.23e-02 -4.40e-03  
## 3657 1.19e-02 -5.02e-02 -1.54e-02 -2.22e-02 -1.10e-02 -1.78e-02 -5.91e-03  
## 3658 -2.49e-02 -2.90e-03 1.15e-02 3.68e-03 1.93e-02 1.09e-02 -1.91e-02  
## 3659 -4.15e-03 1.60e-02 7.22e-03 1.04e-02 5.30e-03 -2.15e-02 4.53e-03  
## 3660 3.55e-04 -6.69e-04 -8.10e-04 -2.06e-03 -1.22e-03 4.34e-03 -1.54e-03  
## 3661 -8.82e-03 -7.73e-03 -2.85e-02 -1.68e-02 -2.26e-02 -1.24e-02 2.50e-02  
## 3662 -2.76e-02 3.81e-03 1.76e-02 1.45e-02 -1.47e-02 2.23e-02 -1.97e-03  
## 3663 -5.79e-03 1.23e-02 6.32e-03 -1.28e-02 7.19e-03 1.03e-02 -1.67e-02  
## 3664 8.39e-03 -1.59e-02 -1.39e-02 -2.43e-02 -1.40e-02 1.28e-02 -8.23e-03  
## 3665 6.76e-03 -3.63e-03 -6.84e-04 -1.24e-03 -1.33e-03 -2.21e-03 -1.76e-03  
## 3666 -1.39e-02 -8.77e-05 -6.30e-03 -3.88e-03 -4.50e-03 -3.04e-03 -1.04e-02  
## 3667 -2.43e-02 -6.40e-02 -2.70e-02 -2.45e-02 -3.21e-02 -2.85e-02 3.05e-02  
## 3668 -9.69e-03 3.18e-03 2.04e-02 -9.56e-03 -2.22e-02 -1.22e-02 1.17e-02  
## 3669 9.38e-03 -4.64e-02 -1.31e-02 -2.02e-02 -9.87e-03 -1.69e-02 -5.66e-03  
## 3670 -4.35e-05 -6.72e-03 -1.77e-03 -2.10e-03 -2.09e-03 -2.16e-03 -2.63e-03  
## 3671 -1.78e-03 1.51e-03 -4.04e-03 -3.42e-03 3.18e-03 -3.22e-03 -5.85e-03  
## 3672 4.90e-03 1.27e-03 9.74e-03 1.29e-02 9.23e-03 -2.04e-02 7.71e-03  
## 3673 1.75e-02 1.05e-03 -1.68e-02 -1.63e-02 8.46e-03 -1.57e-02 -1.58e-02  
## 3674 -4.43e-05 2.77e-02 8.28e-03 1.37e-02 1.08e-02 1.07e-02 9.90e-03  
## 3675 -6.47e-03 1.68e-04 -1.59e-02 -1.87e-02 -2.09e-02 3.84e-02 3.69e-02  
## 3676 -6.30e-03 -8.48e-04 -1.97e-02 -7.28e-03 1.78e-02 -8.27e-03 8.60e-03  
## 3677 1.41e-02 4.44e-04 -8.32e-03 -5.98e-03 -6.60e-03 -5.57e-03 -1.30e-02  
## 3678 7.53e-03 -8.47e-03 -8.82e-03 2.82e-03 -8.27e-03 4.64e-03 -4.31e-03  
## 3679 8.24e-03 4.56e-03 1.67e-02 1.05e-02 1.11e-02 6.45e-03 1.54e-02  
## 3680 -8.00e-04 -2.22e-03 4.99e-03 -5.88e-03 5.44e-03 -5.85e-03 -7.30e-03  
## 3681 -1.41e-02 -2.11e-03 -1.01e-02 -6.45e-03 -6.76e-03 -4.40e-03 -1.33e-02  
## 3682 2.62e-02 2.05e-02 2.98e-02 -2.03e-02 -3.11e-02 3.02e-02 1.06e-02  
## 3683 9.21e-03 -9.82e-04 1.54e-02 9.16e-03 -1.55e-02 1.11e-02 -9.07e-03  
## 3684 1.33e-02 -4.89e-04 -7.25e-03 -3.94e-03 -5.25e-03 -2.30e-03 -1.04e-02  
## 3685 -2.81e-03 3.59e-03 3.33e-02 -8.34e-03 2.89e-02 -1.61e-02 2.41e-02  
## 3686 8.01e-03 1.36e-02 -8.72e-03 7.25e-03 6.36e-03 7.14e-03 -1.27e-02  
## 3687 2.83e-02 1.80e-02 -2.94e-02 6.41e-03 -3.05e-02 9.42e-03 -3.17e-02  
## 3688 8.23e-03 1.02e-02 5.62e-03 -8.23e-03 5.76e-03 7.68e-03 -1.25e-02  
## 3689 -6.92e-03 2.16e-02 -6.47e-02 2.33e-02 4.93e-03 1.68e-02 -4.31e-03  
## 3690 1.32e-02 -4.42e-03 -2.40e-02 8.15e-03 1.89e-02 9.70e-03 -1.31e-02  
## 3691 9.51e-03 -3.24e-02 -1.44e-02 -2.14e-02 -1.08e-02 4.32e-02 -7.96e-03  
## 3692 1.06e-02 -6.05e-03 1.49e-02 -2.20e-02 1.33e-02 9.69e-03 -1.86e-02  
## 3693 4.27e-03 -1.25e-03 -7.78e-03 9.17e-03 -1.37e-02 6.51e-03 1.16e-02  
## 3694 -3.00e-03 3.80e-03 -5.70e-03 5.64e-03 -4.85e-03 -4.74e-03 5.15e-03  
## 3695 5.00e-03 3.14e-02 6.29e-03 1.32e-02 1.28e-02 1.35e-02 1.09e-02  
## 3696 3.32e-03 -8.01e-04 -4.95e-05 3.25e-04 2.00e-04 4.12e-04 2.98e-05  
## 3697 -1.49e-02 8.13e-03 -1.26e-02 3.26e-02 -7.56e-03 -4.16e-03 -1.10e-02  
## 3698 -3.50e-04 -2.68e-03 -4.47e-04 -5.33e-05 -2.93e-04 2.33e-04 -4.41e-04  
## 3699 -7.20e-04 -9.39e-04 6.08e-04 7.87e-04 8.89e-04 -1.08e-03 1.25e-03  
## 3700 -3.93e-03 -6.48e-03 -6.65e-03 1.71e-03 -5.76e-03 3.38e-03 -3.55e-03  
## 3701 1.52e-02 -1.18e-02 1.44e-02 1.11e-02 -2.48e-02 -3.06e-02 1.90e-02  
## 3702 3.58e-03 2.52e-03 -4.26e-04 -1.00e-03 -6.39e-04 -5.51e-04 1.15e-04  
## 3703 -5.27e-04 -1.46e-03 -2.84e-04 4.09e-04 4.34e-04 1.14e-03 7.91e-05  
## 3704 2.64e-02 3.10e-02 6.88e-03 1.07e-02 5.08e-03 8.56e-03 2.96e-03  
## 3705 -5.86e-04 -2.63e-03 -4.15e-04 2.64e-05 -1.41e-04 7.91e-05 -3.37e-04  
## 3706 4.06e-04 2.62e-04 -3.42e-04 -3.43e-04 4.49e-04 -4.00e-04 4.15e-04  
## 3707 -1.26e-03 1.53e-03 1.71e-03 -1.57e-03 1.80e-03 -1.62e-03 -2.80e-03  
## 3708 3.45e-02 -6.31e-03 -2.21e-02 -1.19e-02 -2.06e-02 -7.25e-03 -3.14e-02  
## 3709 5.37e-03 -5.86e-03 3.55e-03 3.05e-03 5.12e-03 -7.81e-03 -3.58e-03  
## 3710 -2.65e-02 1.95e-04 1.24e-02 4.44e-03 1.51e-02 4.88e-03 3.08e-02  
## 3711 -1.03e-02 5.67e-03 1.85e-02 -1.06e-03 -8.74e-03 -3.64e-03 8.85e-03  
## 3712 -4.85e-03 1.30e-02 5.21e-03 6.82e-03 -1.32e-02 5.72e-03 2.43e-03  
## 3713 4.01e-03 -3.62e-03 1.71e-02 -2.00e-02 1.70e-02 1.03e-02 -8.15e-03  
## 3714 -4.74e-04 -1.31e-03 -2.83e-04 -2.14e-04 -1.83e-04 -1.30e-04 -5.04e-04  
## 3715 -2.48e-03 3.80e-03 3.12e-03 -3.96e-03 -5.31e-03 3.25e-03 9.32e-04  
## 3716 5.44e-04 2.73e-02 7.06e-03 8.49e-03 8.43e-03 8.85e-03 1.06e-02  
## 3717 8.02e-04 -2.96e-03 -4.03e-03 -3.30e-03 3.37e-03 -3.79e-03 2.16e-03  
## 3718 -9.37e-04 -4.30e-03 -6.92e-04 -9.23e-04 -1.30e-03 -1.81e-03 -1.43e-03  
## 3719 -8.60e-04 4.45e-04 1.91e-05 6.26e-05 7.45e-05 2.01e-04 1.61e-04  
## 3720 1.37e-02 -8.00e-05 -8.55e-03 -6.43e-03 -6.40e-03 -5.57e-03 -1.32e-02  
## 3721 -1.67e-02 1.13e-02 -1.04e-02 -7.09e-03 -1.29e-02 3.31e-02 -2.43e-02  
## 3722 -8.88e-03 1.91e-03 -2.72e-03 2.24e-04 -5.83e-03 -2.42e-03 6.87e-03  
## 3723 -1.38e-03 -6.00e-04 1.12e-03 1.44e-03 1.08e-03 1.14e-03 1.44e-03  
## 3724 5.89e-04 5.08e-04 6.76e-07 3.16e-05 -9.61e-06 -6.89e-05 4.77e-05  
## 3725 -7.22e-03 5.87e-03 1.90e-02 -1.76e-02 2.04e-02 -1.95e-02 1.01e-02  
## 3726 -2.07e-02 -6.39e-04 1.24e-02 8.90e-03 9.82e-03 8.17e-03 1.91e-02  
## 3727 9.30e-03 4.40e-03 5.62e-03 -6.68e-03 -7.15e-03 -4.89e-03 -8.85e-03  
## 3728 3.26e-04 -5.34e-04 2.92e-03 -1.82e-03 3.17e-03 -1.95e-03 2.31e-03  
## 3729 1.46e-04 -7.78e-04 -1.13e-03 6.08e-03 -6.69e-04 -3.18e-03 1.82e-04  
## 3730 2.83e-02 -1.89e-03 1.03e-02 2.89e-03 1.32e-02 5.35e-03 -3.62e-02  
## 3731 -9.30e-04 -4.94e-03 -1.11e-03 -1.41e-03 -9.52e-04 -1.17e-04 -1.25e-03  
## 3732 -3.24e-02 -3.97e-02 -9.66e-03 -1.17e-02 -4.80e-03 -9.91e-03 -4.43e-03  
## 3733 -1.40e-04 4.11e-03 8.98e-03 7.41e-03 -1.49e-02 1.01e-02 -1.33e-02  
## 3734 8.58e-03 -3.32e-03 -1.00e-03 -1.03e-03 -7.41e-04 -8.37e-04 -1.33e-03  
## 3735 -2.22e-02 -1.62e-04 1.45e-02 1.20e-02 1.08e-02 8.59e-03 2.18e-02  
## 3736 -2.67e-04 1.64e-03 1.97e-04 7.87e-04 4.11e-04 8.27e-04 -4.34e-03  
## 3737 8.62e-03 -1.99e-02 -1.05e-02 -1.68e-02 -1.33e-02 -1.70e-02 -1.22e-02  
## 3738 7.98e-03 -3.44e-02 -1.65e-02 3.79e-02 -1.09e-02 -2.39e-02 -3.29e-03  
## 3739 -1.58e-02 -7.67e-05 -1.37e-02 1.26e-02 1.16e-02 1.16e-02 1.32e-02  
## 3740 1.25e-02 7.83e-03 2.27e-02 -1.09e-03 -9.83e-03 -5.74e-03 1.13e-02  
## 3741 1.47e-02 -2.15e-04 -8.53e-03 -6.65e-03 -6.93e-03 -5.07e-03 -1.31e-02  
## 3742 2.32e-02 1.24e-02 -2.11e-02 1.01e-02 3.62e-03 -2.37e-02 3.28e-03  
## 3743 -4.46e-04 5.90e-04 -5.28e-04 7.41e-04 -3.16e-04 -2.85e-04 -3.87e-04  
## 3744 -7.70e-03 1.20e-03 -1.57e-03 1.73e-03 -4.38e-03 -2.32e-04 7.15e-03  
## 3745 -5.55e-03 4.72e-03 5.91e-03 -2.10e-02 -1.60e-02 -1.66e-02 -1.58e-02  
## 3746 2.71e-03 -9.12e-03 1.14e-02 -9.99e-03 -4.70e-03 -9.87e-03 -2.93e-03  
## 3747 1.89e-03 -2.04e-03 -2.59e-03 1.51e-03 2.40e-03 1.46e-03 -1.76e-03  
## 3748 5.19e-03 1.09e-03 8.79e-03 1.18e-02 8.66e-03 -1.98e-02 6.88e-03  
## 3749 1.07e-04 -6.64e-03 -1.94e-03 -2.32e-03 -2.03e-03 -2.21e-03 -2.66e-03  
## 3750 -1.38e-02 7.04e-05 -6.99e-03 -4.09e-03 -5.25e-03 -3.27e-03 -1.13e-02  
## 3751 -6.43e-03 -1.47e-02 -1.39e-02 -1.36e-02 -1.09e-02 -1.31e-02 -1.07e-02  
## 3752 -1.99e-03 3.44e-03 2.38e-03 3.56e-03 -1.82e-03 -1.49e-03 3.35e-03  
## 3753 -3.15e-03 1.23e-02 5.51e-03 -1.49e-02 4.08e-03 8.77e-03 2.11e-04  
## 3754 -1.40e-02 5.23e-03 -5.37e-03 -1.17e-03 2.12e-02 -4.29e-03 1.61e-02  
## 3755 -1.85e-02 -7.43e-03 1.07e-02 7.63e-03 -3.66e-02 8.99e-03 1.99e-02  
## 3756 -8.60e-04 -1.55e-03 8.32e-04 1.01e-03 7.15e-04 -2.00e-03 9.95e-04  
## 3757 2.23e-02 2.89e-02 7.62e-03 8.46e-03 3.93e-03 6.92e-03 2.56e-03  
## 3758 1.36e-02 1.56e-03 -6.74e-03 -3.21e-03 -8.43e-03 -4.77e-03 1.72e-02  
## 3759 1.25e-02 -4.53e-03 -1.50e-03 -1.24e-03 -1.02e-03 -7.32e-04 -1.66e-03  
## 3760 1.83e-02 -8.08e-03 -2.83e-03 -3.75e-03 -3.36e-03 -4.12e-03 -3.83e-03  
## 3761 7.38e-03 -2.05e-02 -9.99e-03 3.91e-02 4.35e-02 -1.38e-02 -3.20e-03  
## 3762 3.55e-05 -5.96e-04 2.27e-03 -6.63e-04 5.85e-05 -4.29e-04 2.26e-04  
## 3763 4.60e-03 1.18e-03 -1.00e-02 9.66e-03 9.14e-03 5.32e-03 1.09e-02  
## 3764 9.68e-03 -5.55e-03 -7.60e-04 -2.61e-03 -2.48e-03 -3.86e-03 -2.01e-03  
## 3765 1.63e-03 1.25e-03 -6.68e-05 -4.07e-04 -3.50e-04 -3.55e-04 1.68e-04  
## 3766 1.19e-02 1.83e-03 -5.92e-03 -2.45e-03 -7.33e-03 -4.97e-03 1.77e-02  
## 3767 1.13e-02 1.26e-02 -3.99e-03 2.84e-02 -9.48e-03 -6.07e-03 1.20e-02  
## 3768 -6.58e-03 -1.73e-02 -1.62e-02 -1.92e-02 -1.40e-02 -1.61e-02 -1.16e-02  
## 3769 8.61e-03 1.58e-02 -1.06e-02 7.55e-03 -9.94e-03 9.04e-03 -9.29e-03  
## 3770 -9.16e-03 -1.25e-04 -1.70e-02 -5.24e-03 1.95e-02 -7.77e-03 1.04e-02  
## 3771 -8.80e-03 2.03e-02 8.28e-03 8.70e-03 8.19e-03 9.18e-03 -1.42e-02  
## 3772 1.34e-03 1.22e-03 -1.16e-04 -5.73e-04 -3.30e-04 -5.36e-04 3.26e-05  
## 3773 2.36e-02 2.74e-02 6.41e-03 9.81e-03 4.97e-03 8.00e-03 1.83e-03  
## 3774 -3.75e-02 -3.38e-02 2.82e-02 2.58e-02 3.08e-02 2.91e-02 5.76e-02  
## 3775 8.93e-04 -1.43e-03 -1.10e-03 -1.46e-03 9.21e-04 7.08e-04 -9.18e-04  
## 3776 -6.87e-04 -1.77e-03 -3.77e-04 -2.81e-04 -2.79e-04 -2.15e-04 -5.85e-04  
## 3777 2.29e-02 4.10e-04 1.44e-02 6.76e-03 1.31e-02 7.99e-03 -2.95e-02  
## 3778 1.58e-03 -1.02e-03 -6.10e-03 9.55e-03 -7.61e-03 9.72e-03 -3.28e-03  
## 3779 -8.45e-03 1.80e-03 -1.30e-02 -3.32e-03 1.75e-02 -5.92e-03 8.56e-03  
## 3780 -1.03e-02 3.25e-03 -4.54e-03 -5.58e-04 1.78e-02 -1.05e-03 -1.58e-02  
## 3781 1.26e-02 2.49e-03 1.60e-02 1.08e-02 1.09e-02 6.06e-03 1.76e-02  
## 3782 -1.73e-02 -2.22e-03 1.54e-02 1.03e-02 1.54e-02 -1.40e-02 -3.20e-03  
## 3783 5.95e-02 4.29e-02 1.75e-02 2.34e-02 3.65e-03 1.37e-02 1.39e-03  
## 3784 -3.55e-04 -5.81e-03 -1.59e-03 -2.05e-03 -1.84e-03 -2.18e-03 -2.42e-03  
## 3785 1.45e-03 2.47e-02 6.95e-03 3.70e-03 2.27e-03 -1.71e-03 7.54e-03  
## 3786 -2.06e-02 2.46e-04 1.28e-02 9.16e-03 9.85e-03 8.04e-03 1.82e-02  
## 3787 2.01e-02 -9.98e-04 -1.13e-02 -3.64e-03 -1.40e-02 -5.43e-03 1.02e-02  
## 3788 -5.02e-04 -5.88e-03 -1.44e-03 -1.85e-03 -1.89e-03 -2.14e-03 -2.41e-03  
## 3789 -4.97e-03 1.63e-02 -2.15e-02 8.46e-03 -2.47e-02 8.40e-03 4.35e-03  
## 3790 -2.47e-02 -1.68e-03 1.43e-02 7.08e-03 1.52e-02 9.93e-03 -2.75e-02  
## 3791 -3.38e-02 -4.45e-02 -1.20e-02 -1.35e-02 -5.73e-03 -1.07e-02 -3.94e-03  
## 3792 9.50e-03 1.05e-02 7.32e-03 -1.20e-02 -8.75e-03 1.05e-02 -9.09e-03  
## 3793 9.31e-03 -6.86e-03 1.78e-02 1.02e-02 2.03e-02 -2.74e-02 -8.06e-03  
## 3794 -4.84e-02 -1.39e-02 -2.56e-02 3.86e-02 5.15e-02 4.68e-02 -9.45e-03  
## 3795 2.42e-04 -5.11e-04 1.57e-03 -4.21e-04 -5.35e-04 -5.38e-04 1.47e-03  
## 3796 -1.60e-02 1.44e-02 2.35e-02 -8.51e-03 -9.04e-03 3.74e-02 -1.44e-02  
## 3797 1.14e-04 -6.62e-03 -1.94e-03 -2.32e-03 -2.03e-03 -2.21e-03 -2.66e-03  
## 3798 -8.33e-03 1.84e-03 1.59e-02 -4.48e-02 -5.17e-02 2.90e-02 1.90e-02  
## 3799 2.09e-02 -5.63e-03 -3.01e-02 1.00e-02 9.66e-03 6.84e-03 1.51e-02  
## 3800 1.33e-02 -4.94e-05 -6.98e-03 -3.52e-03 -5.37e-03 -2.15e-03 -1.05e-02  
## 3801 -2.29e-02 -3.52e-03 -2.66e-02 8.61e-03 9.31e-03 4.85e-03 1.48e-02  
## 3802 -1.30e-02 1.03e-02 2.32e-02 -3.15e-03 1.98e-02 -7.49e-03 9.93e-03  
## 3803 -1.73e-04 -5.29e-03 -1.19e-03 -1.23e-03 -1.65e-03 -1.89e-03 -1.87e-03  
## 3804 -2.22e-05 -3.28e-05 -3.31e-06 -4.29e-06 -4.00e-06 -6.81e-06 -1.12e-05  
## 3805 -4.63e-03 2.36e-02 6.76e-03 1.08e-02 5.16e-03 8.22e-03 3.38e-03  
## 3806 -1.99e-03 5.69e-03 5.63e-03 -1.59e-02 3.93e-03 -1.68e-02 1.77e-03  
## 3807 -1.04e-03 -3.98e-03 -8.95e-04 -1.28e-03 -7.79e-04 -3.53e-04 -1.11e-03  
## 3808 2.15e-04 2.14e-03 -1.78e-03 8.13e-03 -1.28e-03 9.57e-03 1.01e-03  
## 3809 -3.12e-03 -2.76e-03 2.43e-03 2.72e-03 1.79e-03 1.72e-03 2.85e-03  
## 3810 -1.44e-02 -4.32e-04 -6.82e-03 -4.20e-03 -4.77e-03 -3.21e-03 -1.07e-02  
## 3811 3.35e-03 4.19e-03 -3.52e-03 -3.64e-03 -3.50e-03 4.89e-03 3.98e-03  
## 3812 6.36e-04 4.99e-04 -3.94e-05 -1.91e-04 -1.17e-04 -2.22e-04 1.89e-05  
## 3813 1.39e-03 -3.70e-03 -2.15e-03 -3.87e-03 9.07e-03 -2.93e-03 -8.23e-04  
## 3814 -1.16e-03 1.27e-03 6.51e-03 -8.42e-03 5.38e-03 6.83e-03 3.64e-03  
## 3815 8.67e-04 -6.49e-03 -1.93e-03 -6.30e-03 -2.69e-03 -6.87e-03 -2.28e-03  
## 3816 -1.15e-02 -9.24e-04 -5.08e-03 -1.79e-03 -3.33e-03 -2.50e-04 -7.82e-03  
## 3817 2.75e-02 -1.70e-02 -3.99e-02 4.56e-03 -4.09e-02 7.87e-03 -2.91e-02  
## 3818 -5.95e-03 -5.47e-03 4.51e-03 3.16e-03 4.06e-03 3.38e-03 -9.37e-03  
## 3819 -6.98e-03 3.03e-02 6.63e-03 8.48e-03 8.26e-03 1.06e-02 1.31e-02  
## 3820 1.21e-03 8.82e-04 -1.60e-04 -5.40e-04 -2.58e-04 -4.11e-04 -8.69e-05  
## 3821 -3.30e-04 -3.91e-03 -9.49e-04 -3.30e-04 -3.95e-04 3.89e-04 -9.05e-04  
## 3822 2.59e-03 1.74e-03 -1.79e-04 -6.01e-04 -4.85e-04 -4.00e-04 3.03e-04  
## 3823 -6.90e-03 1.10e-03 1.92e-02 -6.82e-03 -2.05e-02 -6.80e-03 1.23e-02  
## 3824 -1.07e-02 6.00e-03 1.84e-02 6.25e-04 -6.70e-03 -2.33e-03 8.93e-03  
## 3825 -1.29e-02 5.65e-03 -1.40e-02 3.23e-02 -1.71e-02 -1.13e-02 -2.56e-02  
## 3826 6.32e-03 7.75e-03 -6.65e-03 6.25e-03 7.33e-03 -7.30e-03 -6.57e-03  
## 3827 2.63e-02 2.35e-02 4.60e-03 5.76e-03 -2.49e-02 1.10e-02 -2.33e-02  
## 3828 3.80e-02 -5.26e-02 -3.89e-02 3.89e-02 -4.21e-02 -4.59e-02 3.83e-02  
## 3829 -6.84e-04 -1.54e-03 -1.16e-04 1.04e-04 -1.29e-04 -6.78e-05 -2.60e-04  
## 3830 -4.88e-04 -7.87e-04 -5.90e-04 -7.42e-04 6.04e-04 6.26e-04 -3.38e-04  
## 3831 1.33e-02 2.19e-02 2.65e-02 -6.87e-03 1.85e-02 2.27e-02 6.90e-03  
## 3832 1.64e-02 -6.75e-03 1.56e-02 5.43e-03 -2.67e-02 1.18e-02 -1.29e-02  
## 3833 -7.91e-04 -4.48e-03 -8.01e-04 -9.95e-04 -1.38e-03 -1.84e-03 -1.53e-03  
## 3834 5.11e-04 -1.60e-04 9.63e-06 -1.59e-05 4.19e-05 -7.50e-05 -6.38e-05  
## 3835 -1.02e-02 2.15e-03 2.23e-02 -3.33e-03 -1.62e-02 -4.19e-03 1.48e-02  
## 3836 1.40e-02 1.80e-03 1.53e-02 8.90e-03 2.19e-02 9.77e-03 -1.50e-02  
## 3837 1.51e-02 -1.50e-03 -8.05e-03 -6.47e-03 -7.72e-03 -2.68e-03 -1.18e-02  
## 3838 -3.96e-02 -1.53e-02 -2.54e-02 3.92e-02 3.04e-02 2.94e-02 3.10e-02  
## 3839 1.44e-02 5.29e-03 -8.53e-03 -6.08e-03 2.82e-02 -6.91e-03 -1.58e-02  
## 3840 -6.72e-03 2.58e-02 8.52e-03 1.08e-02 4.91e-03 8.44e-03 4.57e-03  
## 3841 -7.73e-04 -7.75e-03 -2.06e-03 -3.70e-03 -2.83e-03 -3.09e-03 -2.99e-03  
## 3842 -3.84e-03 1.98e-02 -1.99e-02 1.02e-02 4.26e-03 8.66e-03 1.82e-03  
## 3843 -7.95e-03 1.57e-02 1.80e-02 3.19e-02 1.18e-02 -5.15e-02 4.93e-03  
## 3844 4.79e-04 -2.44e-04 5.51e-04 4.98e-04 3.68e-04 2.81e-04 4.72e-04  
## 3845 -2.48e-04 -2.24e-04 1.36e-05 4.15e-05 1.03e-05 6.88e-05 2.93e-05  
## 3846 -1.76e-04 -8.49e-03 -2.44e-03 -4.02e-03 -2.96e-03 -2.97e-03 -3.34e-03  
## 3847 6.81e-03 4.34e-03 1.33e-02 1.01e-02 9.71e-03 5.71e-03 1.09e-02  
## 3848 5.08e-03 -1.42e-02 -8.12e-03 -1.45e-02 1.40e-02 -1.47e-02 -6.66e-03  
## 3849 -1.49e-03 1.80e-03 -1.67e-03 2.01e-03 1.54e-03 -2.39e-03 -2.85e-03  
## 3850 1.94e-03 -7.69e-03 -4.47e-03 1.03e-02 -4.94e-03 -1.28e-02 -9.82e-04  
## 3851 -4.02e-04 -6.17e-03 -1.58e-03 -2.00e-03 -1.59e-03 -1.89e-03 -2.52e-03  
## 3852 -1.59e-03 2.89e-04 -1.91e-03 -2.08e-03 -1.59e-03 -1.45e-03 -1.86e-03  
## 3853 3.85e-03 -4.78e-04 -7.68e-03 1.03e-02 -9.75e-03 1.16e-02 -8.63e-03  
## 3854 1.28e-03 8.71e-03 1.06e-02 9.97e-03 7.26e-03 8.15e-03 7.28e-03  
## 3855 -1.59e-02 -1.14e-02 -1.43e-02 1.40e-02 -8.76e-03 -1.08e-02 -1.90e-04  
## 3856 -2.86e-03 8.76e-04 -2.46e-04 -3.90e-04 -2.38e-04 -5.95e-05 -4.87e-05  
## 3857 2.27e-02 -1.68e-02 -3.85e-02 1.52e-03 -3.22e-02 8.95e-03 -1.72e-02  
## 3858 -1.17e-02 4.53e-03 2.14e-02 -5.42e-03 -1.58e-02 -8.44e-03 1.20e-02  
## 3859 1.73e-02 -7.19e-03 -2.37e-03 -2.89e-03 -3.25e-03 -3.39e-03 -3.25e-03  
## 3860 6.31e-03 -1.48e-03 -2.03e-04 5.60e-04 3.43e-04 8.22e-04 2.08e-04  
## 3861 -6.83e-03 1.53e-02 -1.37e-02 8.99e-03 -9.54e-03 1.43e-02 -8.78e-03  
## 3862 2.57e-02 5.70e-03 2.65e-02 -1.48e-02 -1.26e-02 -1.02e-02 -1.96e-02  
## 3863 5.14e-03 2.51e-03 -1.25e-02 1.07e-02 1.94e-02 1.32e-02 -6.02e-03  
## 3864 -2.48e-03 9.14e-05 6.32e-03 -7.26e-03 -4.51e-03 6.90e-03 -4.55e-03  
## 3865 -1.03e-02 5.95e-03 -2.23e-03 1.04e-03 1.41e-02 -3.13e-03 6.89e-03  
## 3866 -1.98e-02 -2.29e-02 1.19e-02 1.08e-02 -2.24e-02 -3.42e-02 -8.34e-03  
## 3867 1.67e-04 9.78e-05 -1.12e-03 5.39e-04 -1.14e-03 7.48e-04 -7.89e-04  
## 3868 -6.14e-03 2.64e-02 7.66e-03 9.52e-03 4.29e-03 8.42e-03 2.96e-03  
## 3869 -1.12e-02 1.83e-02 2.07e-02 -1.88e-02 1.62e-02 3.19e-02 4.09e-03  
## 3870 1.83e-02 -8.33e-03 -3.21e-02 4.97e-03 2.02e-02 1.05e-02 -1.69e-02  
## 3871 -2.40e-03 6.07e-03 -1.83e-02 3.72e-02 2.54e-02 -3.04e-02 2.05e-02  
## 3872 -6.57e-05 6.98e-04 4.83e-05 3.82e-04 -1.65e-05 2.35e-04 -1.39e-04  
## 3873 9.13e-03 -4.61e-02 -1.25e-02 -1.95e-02 -9.98e-03 -1.67e-02 -5.53e-03  
## 3874 1.58e-02 1.26e-02 8.00e-03 9.80e-03 -1.27e-02 -1.43e-02 -1.01e-02  
## 3875 -5.56e-03 -6.87e-03 4.34e-03 2.72e-03 -8.43e-03 4.57e-03 -4.15e-03  
## 3876 -5.89e-03 2.63e-02 7.19e-03 9.16e-03 4.54e-03 8.75e-03 3.01e-03  
## 3877 2.07e-02 -1.21e-02 1.35e-02 -3.66e-02 8.80e-03 8.72e-03 1.45e-02  
## 3878 1.91e-02 -1.15e-02 1.45e-02 9.27e-03 1.55e-02 -4.04e-02 -2.47e-02  
## 3879 2.59e-02 5.74e-04 1.26e-02 7.77e-03 8.87e-03 5.95e-03 1.99e-02  
## 3880 -7.21e-04 -1.38e-03 -2.20e-03 -8.31e-03 1.31e-02 8.98e-03 -2.96e-03  
## 3881 1.98e-02 6.00e-03 2.82e-02 -1.26e-02 -1.13e-02 -9.60e-03 -1.62e-02  
## 3882 1.42e-02 1.79e-03 -6.90e-03 -6.34e-03 -1.06e-02 -6.91e-03 -2.01e-02  
## 3883 -5.27e-04 -2.66e-03 -6.41e-04 -3.87e-04 -2.66e-04 1.68e-05 -8.51e-04  
## 3884 -2.67e-03 1.21e-02 7.48e-03 -4.72e-02 8.00e-03 2.95e-02 -1.58e-03  
## 3885 5.33e-03 7.68e-03 4.36e-03 -4.96e-03 3.66e-03 4.99e-03 1.56e-03  
## 3886 -8.11e-04 -4.74e-03 -1.05e-03 -1.47e-03 -1.45e-03 -1.79e-03 -2.14e-03  
## 3887 -7.88e-03 2.57e-02 -2.47e-02 9.25e-03 4.16e-03 7.04e-03 2.34e-03  
## 3888 8.06e-05 -6.70e-04 -7.98e-05 -3.21e-04 7.40e-05 -2.30e-04 1.60e-04  
## 3889 -2.62e-03 8.86e-04 -5.43e-05 -2.46e-04 -1.90e-04 -1.45e-04 1.14e-04  
## 3890 -5.08e-04 -7.94e-04 -2.55e-05 4.50e-05 -8.39e-05 -1.19e-04 -1.44e-04  
## 3891 -4.36e-05 3.96e-04 6.71e-06 2.17e-04 -8.24e-06 1.42e-04 -1.08e-04  
## 3892 3.30e-03 -1.47e-03 -2.04e-04 -3.37e-04 -3.16e-04 -5.28e-04 -6.35e-04  
## 3893 5.39e-03 -1.23e-02 -1.19e-02 -2.35e-02 -1.29e-02 9.69e-03 -9.02e-03  
## 3894 -4.93e-04 -8.36e-04 -4.19e-05 4.51e-05 -9.34e-05 -1.12e-04 -1.69e-04  
## 3895 2.59e-04 -1.25e-03 -1.05e-03 6.03e-03 -2.17e-04 -2.23e-03 8.45e-04  
## 3896 4.93e-03 6.44e-04 9.12e-03 -1.79e-02 7.67e-03 1.08e-02 4.57e-03  
## 3897 -1.28e-02 -4.96e-03 -5.98e-03 9.35e-03 8.24e-03 -1.37e-02 9.91e-03  
## 3898 -1.10e-03 -3.01e-03 -4.33e-04 -7.50e-04 -9.09e-04 -1.51e-03 -1.02e-03  
## 3899 -5.58e-03 -1.29e-02 -1.35e-02 -1.38e-02 -1.62e-02 -1.55e-02 3.62e-02  
## 3900 1.41e-02 6.75e-04 -7.29e-03 -5.90e-03 -1.01e-02 -6.22e-03 2.01e-02  
## 3901 -1.64e-02 -1.42e-02 1.26e-02 1.11e-02 -2.06e-02 -2.72e-02 -1.66e-02  
## 3902 9.89e-04 -5.64e-03 -2.22e-03 -4.95e-03 -1.11e-03 -3.80e-03 -3.59e-04  
## 3903 -3.95e-04 -1.17e-03 -2.43e-04 2.65e-04 3.19e-04 8.39e-04 -7.16e-05  
## 3904 -9.69e-03 7.32e-03 1.94e-02 -1.34e-02 2.02e-02 -1.71e-02 8.85e-03  
## 3905 1.35e-02 -3.74e-02 -1.90e-02 3.99e-02 -1.30e-02 -2.38e-02 -2.28e-03  
## 3906 3.98e-04 -1.28e-03 -4.27e-04 -6.95e-04 -1.38e-04 -5.12e-04 6.06e-05  
## 3907 -2.94e-03 1.05e-03 -1.32e-04 -2.14e-04 -2.92e-04 2.26e-05 2.23e-04  
## 3908 -6.28e-04 -1.14e-03 -1.62e-04 -1.50e-04 -1.58e-04 -1.86e-04 -3.50e-04  
## 3909 -1.08e-02 -2.16e-03 9.36e-03 -6.27e-03 -6.17e-03 7.53e-03 8.50e-03  
## 3910 -1.86e-02 1.25e-03 1.26e-02 1.30e-02 1.11e-02 8.50e-03 1.86e-02  
## 3911 1.50e-02 -1.30e-03 -8.24e-03 -6.37e-03 -7.45e-03 -3.38e-03 -1.13e-02  
## 3912 1.98e-02 9.76e-04 -1.14e-02 -5.67e-03 -1.54e-02 -8.25e-03 9.80e-03  
## 3913 -1.10e-02 2.26e-03 -3.47e-03 2.75e-04 -7.29e-03 -3.07e-03 9.60e-03  
## 3914 3.73e-04 3.13e-04 5.36e-03 4.96e-03 -1.70e-03 -2.40e-03 5.39e-03  
## 3915 1.35e-02 6.38e-03 -1.29e-02 -1.24e-02 -1.56e-02 6.93e-03 1.84e-03  
## 3916 4.49e-04 7.44e-03 2.02e-02 8.76e-03 1.98e-02 6.74e-03 -8.31e-03  
## 3917 1.17e-02 1.86e-03 -5.30e-03 -2.98e-03 -7.58e-03 -4.66e-03 -1.76e-02  
## 3918 -1.02e-02 -1.56e-02 -2.96e-02 -2.35e-02 -2.84e-02 -2.09e-02 -4.34e-02  
## 3919 8.38e-03 9.04e-03 -8.31e-03 8.73e-03 7.39e-03 -8.63e-03 7.63e-03  
## 3920 3.96e-03 6.49e-04 -1.80e-02 9.76e-03 -1.99e-02 9.12e-03 6.85e-03  
## 3921 2.60e-03 2.97e-02 8.48e-03 1.38e-02 9.69e-03 1.22e-02 1.05e-02  
## 3922 -2.69e-02 -8.88e-03 1.40e-02 6.12e-03 -2.71e-02 1.26e-02 -1.21e-02  
## 3923 -4.65e-03 1.03e-02 4.57e-03 5.35e-03 3.31e-03 4.41e-03 2.47e-03  
## 3924 9.23e-04 -3.22e-03 7.26e-03 -3.45e-03 -1.34e-03 -3.31e-03 -1.21e-04  
## 3925 -4.37e-03 1.79e-03 -1.13e-02 -1.12e-02 5.92e-03 -1.19e-02 6.26e-03  
## 3926 -1.28e-02 2.60e-03 -4.80e-03 -1.47e-03 2.21e-02 -9.01e-04 -9.51e-03  
## 3927 -4.25e-04 -5.53e-03 -1.46e-03 -1.89e-03 -1.59e-03 -1.92e-03 -2.41e-03  
## 3928 2.51e-03 -4.79e-03 -7.58e-03 -5.90e-03 5.58e-03 -6.63e-03 4.08e-03  
## 3929 2.64e-03 1.66e-03 -1.77e-04 -5.58e-04 -4.09e-04 -2.60e-04 2.39e-04  
## 3930 -2.34e-03 6.02e-04 4.10e-03 -1.68e-02 -1.66e-02 -1.51e-02 7.53e-03  
## 3931 -5.03e-04 -8.40e-03 -2.19e-03 -3.80e-03 -3.12e-03 -3.08e-03 -3.19e-03  
## 3932 -3.57e-03 1.44e-02 6.49e-03 -1.61e-02 4.57e-03 9.67e-03 1.32e-03  
## 3933 1.43e-02 1.08e-03 -8.06e-03 -7.92e-03 -1.08e-02 -7.79e-03 -2.22e-02  
## 3934 1.16e-03 8.57e-03 1.00e-02 9.12e-03 7.54e-03 7.89e-03 6.36e-03  
## 3935 -8.10e-04 -6.97e-03 -1.47e-03 -2.65e-03 -2.22e-03 -2.62e-03 -2.17e-03  
## 3936 7.70e-03 -4.37e-02 -1.07e-02 -1.43e-02 -6.47e-03 -1.39e-02 -4.14e-03  
## 3937 -6.09e-03 2.93e-02 6.91e-03 9.62e-03 5.12e-03 6.87e-03 1.41e-03  
## 3938 -6.09e-04 -2.73e-03 -4.00e-04 1.39e-04 -2.04e-04 1.28e-04 -3.75e-04  
## 3939 -1.28e-02 1.62e-02 -2.06e-02 3.41e-02 -1.87e-02 3.95e-02 -1.14e-02  
## 3940 -1.17e-02 2.70e-02 -1.30e-02 3.97e-02 2.91e-02 3.34e-02 2.77e-02  
## 3941 -3.13e-03 9.12e-03 5.48e-03 -1.45e-02 -1.81e-02 9.25e-03 2.09e-03  
## 3942 -1.54e-02 4.95e-03 1.24e-02 1.04e-02 1.42e-02 1.04e-02 -2.46e-03  
## 3943 1.62e-02 1.43e-02 7.66e-03 -1.42e-02 4.34e-03 8.14e-03 2.12e-03  
## 3944 -5.47e-03 -6.45e-03 -2.10e-02 -7.79e-03 -2.18e-02 -7.82e-03 1.12e-02  
## 3945 -5.12e-03 -4.70e-03 3.52e-03 2.80e-03 3.67e-03 2.81e-03 7.22e-03  
## 3946 2.97e-04 -5.56e-04 -5.96e-04 4.07e-03 -3.01e-04 -1.39e-03 3.95e-04  
## 3947 1.63e-02 2.85e-03 -9.54e-03 -7.56e-03 2.73e-02 -5.12e-03 -1.46e-02  
## 3948 2.07e-02 -3.49e-06 1.32e-02 -6.67e-04 2.16e-02 2.77e-03 -2.27e-02  
## 3949 -1.39e-03 9.07e-03 1.12e-02 7.19e-03 1.60e-02 1.01e-02 -1.81e-02  
## 3950 -1.13e-02 9.16e-03 1.91e-02 5.02e-04 1.57e-02 -3.20e-03 7.84e-03  
## 3951 4.56e-04 5.47e-03 1.36e-02 1.17e-02 -1.57e-03 1.36e-02 1.23e-03  
## 3952 -1.46e-02 -1.55e-03 -1.16e-02 -7.23e-03 -8.91e-03 -4.48e-03 -1.42e-02  
## 3953 -5.19e-03 8.86e-03 4.84e-03 5.02e-03 -5.09e-03 5.46e-03 5.64e-03  
## 3954 -3.94e-03 2.21e-02 5.37e-03 8.29e-03 -2.39e-02 1.07e-02 -2.69e-02  
## 3955 4.19e-03 5.19e-03 -2.13e-02 1.02e-02 7.08e-03 9.31e-03 6.58e-03  
## 3956 -9.18e-03 -3.37e-04 -4.40e-03 -8.97e-04 -5.81e-03 -3.34e-04 -1.30e-02  
## 3957 2.63e-03 1.73e-03 -2.98e-04 -6.41e-04 -4.11e-04 -5.48e-04 2.72e-04  
## 3958 4.68e-05 -2.24e-04 7.97e-04 -1.68e-04 1.98e-05 -1.37e-04 8.41e-05  
## 3959 3.19e-03 2.89e-04 -1.14e-02 1.19e-02 -1.00e-02 1.42e-02 -3.70e-03  
## 3960 -6.94e-05 3.32e-04 7.36e-05 3.14e-04 -1.16e-03 2.57e-04 2.28e-05  
## 3961 -8.93e-04 -1.64e-03 -2.89e-04 -1.46e-04 -2.01e-04 -3.09e-04 -5.14e-04  
## 3962 3.22e-03 2.02e-03 -2.75e-04 -6.81e-04 -5.40e-04 -3.24e-04 3.16e-04  
## 3963 -2.05e-02 -1.03e-03 1.27e-02 1.02e-02 1.00e-02 7.77e-03 1.96e-02  
## 3964 -1.92e-04 2.31e-04 2.55e-04 -2.08e-04 2.86e-04 -2.46e-04 2.53e-04  
## 3965 -5.86e-02 1.58e-02 3.09e-03 -2.19e-03 -2.72e-03 -7.60e-03 2.70e-03  
## 3966 -4.62e-03 7.10e-03 4.96e-03 -7.46e-03 2.77e-03 4.32e-03 8.83e-04  
## 3967 -5.71e-04 -4.80e-03 6.53e-03 -7.43e-03 -4.94e-03 -6.04e-03 -4.42e-03  
## 3968 1.04e-02 1.03e-02 6.15e-03 -1.13e-02 -8.63e-03 1.02e-02 -9.51e-03  
## 3969 -9.48e-03 -1.33e-03 -8.69e-03 -3.02e-03 -9.00e-03 -2.17e-03 -1.76e-02  
## 3970 -5.47e-03 -1.50e-02 -1.49e-02 -1.47e-02 -1.12e-02 -1.35e-02 -1.06e-02  
## 3971 -2.66e-03 -1.72e-03 -5.75e-04 -1.09e-03 -2.07e-04 -6.34e-04 6.54e-05  
## 3972 -2.33e-02 -4.76e-03 9.38e-03 5.30e-03 2.09e-02 1.15e-02 -1.94e-02  
## 3973 -6.90e-04 2.69e-04 -3.57e-05 1.85e-06 -9.01e-06 1.21e-05 -2.80e-06  
## 3974 -1.30e-02 1.04e-02 2.27e-02 -4.33e-03 2.02e-02 -9.41e-03 9.79e-03  
## 3975 2.34e-02 1.62e-03 1.19e-02 6.23e-03 1.63e-02 3.76e-03 3.16e-02  
## 3976 -3.24e-03 9.97e-04 -1.75e-04 -3.05e-04 -8.64e-05 -8.29e-05 9.01e-05  
## 3977 -6.39e-03 -1.44e-02 -1.40e-02 -1.38e-02 -1.12e-02 -1.34e-02 -1.04e-02  
## 3978 -4.01e-03 1.45e-03 -4.67e-04 -6.79e-04 -4.07e-04 -1.64e-04 1.14e-04  
## 3979 -5.96e-03 9.47e-03 -1.71e-02 -1.85e-02 3.34e-03 5.67e-03 -8.43e-04  
## 3980 -3.00e-04 9.27e-04 2.77e-04 3.92e-04 5.08e-04 6.34e-04 -1.84e-03  
## 3981 -1.34e-02 -1.08e-03 -9.53e-03 -6.02e-03 -6.59e-03 -4.27e-03 -1.29e-02  
## 3982 2.12e-03 5.80e-04 -1.74e-03 -1.92e-03 -2.00e-03 -1.71e-03 -2.79e-03  
## 3983 4.63e-03 -1.50e-03 9.22e-03 -2.34e-02 9.60e-03 1.15e-02 1.29e-02  
## 3984 -2.84e-02 -3.93e-03 1.45e-02 5.45e-03 2.22e-02 1.23e-02 -1.56e-02  
## 3985 -1.77e-02 1.63e-02 2.49e-02 -4.13e-03 -8.24e-03 2.94e-02 -1.89e-02  
## 3986 -1.57e-03 -2.81e-03 1.28e-03 1.36e-03 1.04e-03 -3.70e-03 1.59e-03  
## 3987 -6.15e-03 -7.91e-03 3.52e-03 1.76e-03 -8.87e-03 3.87e-03 -5.30e-03  
## 3988 -3.24e-03 -6.03e-03 1.71e-02 -1.74e-02 -3.29e-02 -1.87e-02 9.31e-03  
## 3989 2.94e-02 1.42e-02 -2.40e-02 3.69e-02 -1.58e-02 -1.61e-02 -2.09e-02  
## 3990 -5.47e-04 -8.79e-04 -1.03e-04 2.51e-04 2.49e-04 5.80e-04 3.79e-05  
## 3991 -1.89e-03 3.09e-03 -1.17e-03 2.04e-03 1.83e-03 2.08e-03 1.83e-03  
## 3992 -1.99e-03 2.96e-03 -3.19e-03 -3.07e-03 1.53e-03 2.36e-03 4.88e-04  
## 3993 1.37e-02 -8.62e-04 -7.50e-03 -4.06e-03 -5.32e-03 -2.31e-03 -1.04e-02  
## 3994 1.03e-02 1.51e-05 1.99e-02 6.64e-03 -2.26e-02 9.29e-03 -1.14e-02  
## 3995 4.41e-03 -5.77e-03 -7.02e-03 1.11e-02 -3.92e-03 -7.38e-03 3.80e-04  
## 3996 -4.52e-03 -3.94e-03 2.96e-03 3.02e-03 3.81e-03 2.71e-03 6.63e-03  
## 3997 -1.95e-04 -2.04e-04 -1.76e-06 7.63e-05 5.19e-05 1.20e-04 -4.56e-07  
## 3998 -5.36e-03 -4.20e-03 4.29e-03 3.57e-03 5.81e-03 4.14e-03 -4.21e-03  
## 3999 -5.45e-02 2.49e-02 1.03e-02 1.65e-02 1.27e-02 1.40e-02 1.15e-02  
## dfb.StrM dfb.Cntr dfb.PprB dfb.PymM dfb.MntC dfb.TtlC dffit  
## 1 7.32e-03 7.29e-03 -1.26e-02 -1.31e-03 -1.02e-02 1.84e-02 6.94e-02  
## 2 2.84e-03 1.76e-03 3.45e-03 5.65e-03 1.86e-03 -1.18e-03 1.68e-02  
## 3 3.92e-04 -2.74e-03 2.54e-02 -2.08e-02 1.63e-02 2.90e-03 -9.12e-02  
## 4 2.21e-03 -8.72e-04 2.03e-03 -2.72e-03 2.06e-03 -1.59e-03 1.02e-02  
## 5 -1.31e-02 -8.91e-03 8.60e-03 -7.97e-04 -2.06e-02 2.82e-05 -3.88e-02  
## 6 7.22e-03 1.66e-04 3.06e-03 -2.64e-03 -6.66e-03 1.52e-02 -3.58e-02  
## 7 2.48e-02 -5.33e-03 -6.54e-03 -1.12e-02 1.22e-02 -1.09e-02 7.63e-02  
## 8 5.45e-03 -2.27e-03 1.08e-02 9.70e-03 6.18e-04 9.49e-03 4.65e-02  
## 9 7.76e-03 1.83e-02 5.14e-03 -9.01e-03 -3.88e-03 1.31e-02 -6.51e-02  
## 10 -1.11e-03 1.48e-03 -2.66e-03 2.95e-03 -9.98e-04 7.07e-04 -1.25e-02  
## 11 1.61e-03 -4.25e-03 -1.11e-02 1.03e-02 -3.70e-03 2.02e-03 3.77e-02  
## 12 -8.03e-06 3.03e-03 5.85e-04 -1.49e-03 -8.75e-04 1.39e-03 5.08e-03  
## 13 -1.05e-03 1.00e-04 1.65e-02 -1.55e-03 3.67e-03 8.82e-03 3.77e-02  
## 14 1.25e-02 2.76e-02 4.25e-03 2.60e-02 1.23e-02 -4.75e-03 -7.78e-02  
## 15 -8.57e-03 -1.84e-02 -7.99e-03 5.93e-03 1.13e-02 -1.87e-02 6.26e-02  
## 16 -2.05e-04 -1.09e-03 -2.57e-03 4.45e-05 -1.69e-04 -2.95e-03 -7.22e-03  
## 17 -1.32e-04 -5.95e-04 4.48e-04 9.73e-04 1.18e-04 -8.72e-04 2.40e-03  
## 18 2.62e-04 1.88e-03 2.59e-03 -1.87e-03 1.00e-03 3.28e-03 9.66e-03  
## 19 -1.47e-02 2.63e-02 -2.76e-02 2.16e-02 5.92e-03 -2.29e-04 -1.16e-01  
## 20 -2.22e-02 -5.97e-03 -8.69e-03 6.62e-03 1.67e-02 -1.69e-02 7.03e-02  
## 21 2.65e-02 -5.69e-03 1.22e-02 1.56e-03 1.86e-02 -1.30e-02 -7.99e-02  
## 22 -6.74e-04 1.80e-03 1.96e-03 -6.86e-03 -3.97e-03 3.50e-03 1.31e-02  
## 23 1.04e-02 1.96e-02 -1.80e-02 -1.38e-02 4.51e-02 -3.84e-02 -9.06e-02  
## 24 6.24e-04 1.16e-03 -7.71e-04 5.81e-06 -5.59e-05 -9.54e-05 3.49e-03  
## 25 -3.55e-04 3.49e-03 -1.56e-03 4.79e-04 2.13e-04 8.47e-04 -6.51e-03  
## 26 3.99e-04 -5.93e-03 -6.11e-03 -9.81e-03 -4.35e-03 -2.25e-03 2.67e-02  
## 27 1.49e-02 2.38e-02 4.75e-03 -1.27e-02 2.42e-03 -7.85e-03 -7.67e-02  
## 28 -1.16e-02 -3.90e-03 -2.53e-02 4.21e-03 3.82e-03 -2.81e-02 -1.07e-01  
## 29 2.30e-03 -1.44e-03 2.92e-03 -3.35e-04 4.65e-03 -8.87e-04 -1.11e-02  
## 30 3.01e-02 1.11e-02 1.39e-02 -2.20e-02 1.77e-02 4.28e-04 -8.90e-02  
## 31 1.98e-03 1.36e-03 -8.23e-04 1.89e-04 5.70e-04 1.05e-03 5.07e-03  
## 32 -1.99e-02 7.65e-03 -7.20e-03 -1.95e-02 1.87e-02 -4.06e-02 1.16e-01  
## 33 7.87e-04 3.99e-06 9.34e-04 1.62e-03 4.46e-04 -9.23e-04 4.90e-03  
## 34 -2.40e-03 -4.41e-03 4.12e-03 -1.35e-02 -1.09e-02 9.19e-03 2.31e-02  
## 35 2.73e-03 5.33e-03 1.67e-02 -2.69e-02 -1.19e-02 1.56e-02 5.93e-02  
## 36 -5.95e-03 -2.05e-03 -3.57e-03 2.43e-03 -2.09e-03 -4.12e-03 -1.25e-02  
## 37 -1.34e-02 -7.79e-03 9.50e-03 -8.75e-04 -2.10e-02 2.59e-04 -4.03e-02  
## 38 1.50e-02 -1.19e-02 -6.66e-03 -3.48e-03 1.02e-02 5.77e-03 4.63e-02  
## 39 1.01e-02 1.25e-02 3.74e-03 -8.62e-03 -2.24e-03 1.24e-02 -5.60e-02  
## 40 9.05e-03 2.05e-03 3.35e-03 1.82e-02 -3.56e-03 1.41e-02 -4.44e-02  
## 41 3.21e-03 1.19e-02 7.53e-03 8.03e-03 1.99e-03 2.82e-03 3.39e-02  
## 42 -1.65e-03 -1.38e-03 1.31e-03 -1.04e-04 7.81e-04 -2.50e-04 -6.00e-03  
## 43 -3.63e-04 7.62e-04 1.56e-03 2.61e-03 -2.05e-03 2.30e-03 9.19e-03  
## 44 -3.06e-03 -1.66e-03 2.08e-03 -4.91e-05 1.57e-03 6.86e-04 -8.33e-03  
## 45 7.87e-03 -9.38e-03 -8.84e-03 3.48e-03 -1.13e-02 -1.49e-02 5.72e-02  
## 46 -1.87e-02 -1.49e-02 -5.26e-03 1.05e-02 7.90e-03 4.18e-03 5.80e-02  
## 47 1.58e-03 2.31e-03 1.26e-02 9.31e-03 -4.40e-03 4.07e-03 4.14e-02  
## 48 -1.76e-02 -6.07e-03 5.37e-03 -8.70e-04 -1.60e-02 6.93e-03 -3.97e-02  
## 49 -2.32e-03 3.09e-03 -2.23e-03 -5.02e-04 -2.06e-03 4.90e-04 1.03e-02  
## 50 -3.53e-03 -1.61e-03 4.54e-03 -6.17e-04 -8.64e-05 1.43e-03 -1.50e-02  
## 51 2.56e-02 -9.43e-03 -2.48e-03 1.04e-02 5.74e-04 1.62e-03 6.73e-02  
## 52 1.75e-02 5.38e-03 6.67e-03 1.05e-02 -1.33e-02 2.50e-02 -7.00e-02  
## 53 8.35e-03 -1.19e-02 -7.50e-03 -5.67e-03 -1.71e-02 -5.27e-03 5.73e-02  
## 54 -9.25e-03 -7.52e-03 4.24e-03 7.97e-03 -8.70e-03 8.38e-03 -4.99e-02  
## 55 1.20e-03 6.58e-04 6.92e-04 2.46e-05 7.50e-04 2.87e-04 -3.55e-03  
## 56 8.78e-03 -1.13e-03 1.36e-03 -3.11e-03 -2.75e-03 6.56e-03 -3.54e-02  
## 57 -2.82e-03 -1.30e-03 -3.75e-03 -7.30e-04 9.37e-05 1.07e-02 3.17e-02  
## 58 -8.78e-04 -3.28e-03 -2.26e-03 6.08e-03 -4.37e-03 7.26e-03 2.86e-02  
## 59 -5.96e-06 1.41e-03 5.53e-04 -6.70e-04 -3.82e-04 -2.28e-05 3.62e-03  
## 60 1.73e-03 4.75e-03 -1.99e-03 1.41e-04 1.18e-05 9.16e-03 1.86e-02  
## 61 -6.18e-03 -1.90e-02 -3.86e-03 1.12e-02 -2.64e-03 5.74e-03 5.70e-02  
## 62 1.71e-02 -1.35e-02 -2.24e-03 -1.17e-02 -1.73e-03 9.71e-03 4.48e-02  
## 63 -1.78e-03 -1.31e-03 -1.50e-03 1.28e-03 -2.47e-03 2.30e-03 -8.36e-03  
## 64 4.96e-03 4.23e-03 -7.66e-03 -4.10e-03 -1.12e-03 7.10e-04 2.78e-02  
## 65 1.03e-02 4.36e-05 -2.07e-02 -2.15e-03 -1.25e-02 1.27e-02 -4.32e-02  
## 66 -2.40e-02 -5.98e-03 -9.33e-03 1.07e-03 -1.37e-02 -1.69e-02 6.49e-02  
## 67 1.33e-02 1.02e-02 -6.72e-03 8.09e-03 1.22e-02 2.16e-03 4.16e-02  
## 68 -3.69e-03 8.01e-03 4.92e-03 6.30e-03 -5.82e-05 -3.31e-03 2.07e-02  
## 69 3.33e-05 -1.49e-03 -1.16e-03 2.98e-03 -8.88e-04 1.99e-03 -7.46e-03  
## 70 1.71e-02 -1.28e-03 -1.43e-02 1.88e-02 2.39e-02 -1.33e-02 7.00e-02  
## 71 3.29e-03 -2.32e-03 1.06e-02 8.35e-03 -2.44e-03 4.76e-03 3.68e-02  
## 72 -2.52e-04 -1.10e-03 -1.68e-03 6.85e-04 -2.84e-04 -1.29e-03 4.12e-03  
## 73 6.77e-04 4.89e-03 -2.58e-03 -4.21e-03 -5.39e-04 6.48e-03 2.06e-02  
## 74 4.21e-05 -1.64e-04 5.39e-04 4.03e-04 4.77e-05 5.59e-04 -1.48e-03  
## 75 -2.28e-02 -7.65e-03 -1.03e-02 -1.91e-02 -7.60e-03 -3.83e-03 5.16e-02  
## 76 -2.85e-03 7.82e-04 1.47e-02 6.60e-03 -9.07e-04 4.63e-03 3.79e-02  
## 77 -9.12e-03 1.58e-03 6.45e-03 -1.97e-03 -1.78e-04 2.45e-03 2.30e-02  
## 78 5.78e-04 -3.53e-03 7.57e-03 7.81e-03 -1.39e-03 -9.59e-04 3.24e-02  
## 79 -2.03e-02 -1.03e-02 -6.94e-03 4.31e-03 -1.69e-02 -9.82e-03 5.69e-02  
## 80 -7.41e-04 -2.00e-03 -4.38e-03 -1.45e-03 -2.89e-03 -2.04e-03 1.13e-02  
## 81 -1.86e-02 -4.50e-03 6.76e-03 -3.90e-04 -1.77e-02 6.39e-03 -5.04e-02  
## 82 -1.71e-02 -9.28e-03 1.70e-02 5.16e-04 -3.29e-03 6.65e-04 6.66e-02  
## 83 -1.73e-02 -2.81e-03 9.85e-03 2.58e-02 -1.84e-02 5.04e-03 -6.57e-02  
## 84 -5.63e-03 -1.79e-02 -3.33e-03 -1.42e-02 -1.17e-06 -3.59e-03 4.59e-02  
## 85 -6.68e-06 3.30e-04 -4.63e-04 -4.04e-04 -5.01e-05 -2.41e-04 1.20e-03  
## 86 -2.50e-02 3.68e-03 -5.06e-03 -1.69e-02 1.38e-02 -3.66e-02 9.22e-02  
## 87 7.30e-03 4.14e-03 -6.21e-03 -9.33e-03 -3.12e-03 1.57e-03 3.09e-02  
## 88 -4.55e-05 -1.70e-03 -1.14e-03 3.06e-03 -6.28e-04 1.29e-03 -7.25e-03  
## 89 7.27e-06 5.26e-04 -8.07e-04 7.24e-04 6.17e-05 -3.71e-04 1.82e-03  
## 90 1.38e-02 -9.63e-03 1.59e-02 1.42e-02 1.56e-04 2.77e-03 5.82e-02  
## 91 1.33e-02 -9.36e-03 1.62e-02 -1.63e-02 1.59e-02 -1.46e-03 5.03e-02  
## 92 1.75e-02 3.79e-03 2.76e-02 4.07e-04 3.02e-02 -9.78e-03 8.21e-02  
## 93 1.10e-03 -7.94e-04 1.79e-03 -3.12e-03 1.78e-03 -7.58e-04 -7.06e-03  
## 94 -3.47e-03 -1.51e-02 -2.32e-03 -7.59e-04 -6.85e-03 7.80e-03 3.29e-02  
## 95 -6.50e-05 5.74e-03 -1.99e-03 -3.81e-03 -2.06e-03 7.56e-03 1.70e-02  
## 96 -1.24e-02 -1.08e-03 1.10e-02 -4.09e-03 -1.78e-02 9.38e-03 -5.77e-02  
## 97 -1.74e-03 3.17e-03 3.03e-03 -2.84e-04 1.20e-03 7.55e-04 -1.23e-02  
## 98 9.94e-03 2.35e-02 -1.87e-02 -1.60e-02 4.08e-02 -3.20e-02 -8.75e-02  
## 99 1.55e-05 -1.49e-03 -1.03e-03 2.47e-03 -6.17e-04 1.64e-03 -6.33e-03  
## 100 1.10e-02 6.53e-03 3.49e-03 -6.82e-03 -1.36e-03 1.39e-02 -6.17e-02  
## 101 -2.47e-03 -4.67e-03 4.28e-03 3.28e-03 -1.07e-02 9.11e-03 2.15e-02  
## 102 -2.09e-03 -5.20e-03 3.43e-03 -2.17e-03 -9.24e-03 8.43e-03 2.02e-02  
## 103 2.19e-02 2.83e-03 1.58e-02 -1.36e-02 1.11e-02 -4.87e-04 4.56e-02  
## 104 8.16e-03 -2.29e-03 7.98e-03 -4.97e-03 6.72e-04 -4.84e-03 2.98e-02  
## 105 -6.58e-03 -3.79e-02 1.52e-02 2.94e-02 9.77e-03 -5.51e-02 -1.25e-01  
## 106 7.86e-03 2.90e-03 1.44e-02 9.92e-03 -1.73e-03 2.02e-02 5.40e-02  
## 107 -1.97e-03 -2.08e-03 -2.24e-03 4.51e-03 -1.01e-03 6.42e-03 2.02e-02  
## 108 5.11e-03 5.08e-03 6.44e-03 9.11e-03 6.86e-03 2.42e-04 3.10e-02  
## 109 -6.31e-03 1.00e-02 2.36e-02 2.12e-02 1.47e-02 3.12e-03 5.71e-02  
## 110 2.99e-04 6.60e-04 -2.33e-03 2.22e-04 -4.36e-03 9.44e-03 -1.71e-02  
## 111 -3.91e-02 3.23e-02 9.36e-03 -1.83e-02 -3.83e-03 -7.37e-03 -1.06e-01  
## 112 -1.64e-03 1.79e-03 -1.99e-03 5.02e-04 -2.39e-04 1.01e-03 -9.21e-03  
## 113 2.39e-02 -1.26e-02 -4.96e-03 7.69e-03 7.90e-03 -3.02e-04 5.35e-02  
## 114 -1.79e-02 4.60e-03 5.78e-03 -1.01e-02 -1.03e-02 -6.91e-03 -6.11e-02  
## 115 -2.04e-03 2.74e-03 -2.50e-03 2.92e-03 1.60e-03 -2.29e-03 1.51e-02  
## 116 2.11e-02 -2.65e-03 2.43e-02 1.34e-03 3.11e-02 -2.85e-02 8.56e-02  
## 117 4.13e-03 9.99e-03 3.73e-03 -6.15e-03 5.50e-03 1.17e-03 2.19e-02  
## 118 1.25e-02 3.53e-03 5.58e-03 -3.63e-03 -1.13e-02 1.80e-02 -5.56e-02  
## 119 7.36e-06 2.09e-04 8.04e-05 2.12e-04 5.14e-05 -8.79e-05 5.39e-04  
## 120 1.32e-02 -1.13e-02 -7.29e-03 -6.36e-03 1.53e-02 -1.03e-02 5.90e-02  
## 121 -1.56e-03 6.50e-04 -4.65e-03 -1.42e-03 1.20e-03 1.07e-02 3.97e-02  
## 122 -2.27e-03 -5.75e-03 4.41e-03 3.99e-03 -9.34e-03 7.08e-03 2.01e-02  
## 123 -1.06e-02 -7.84e-03 7.10e-03 -1.14e-03 -1.41e-02 3.47e-03 -3.70e-02  
## 124 1.94e-03 -3.55e-03 8.44e-03 8.72e-03 -3.85e-04 3.21e-03 3.50e-02  
## 125 -1.97e-03 -5.97e-03 3.71e-03 3.62e-03 -8.20e-03 7.20e-03 2.09e-02  
## 126 1.71e-02 1.92e-02 -7.58e-03 4.13e-03 1.50e-02 -5.15e-04 4.04e-02  
## 127 -1.73e-02 3.51e-03 7.46e-03 -7.40e-03 -6.44e-03 1.74e-03 -6.14e-02  
## 128 1.11e-04 -1.91e-04 1.16e-03 7.59e-04 9.41e-05 1.63e-03 -3.69e-03  
## 129 -2.51e-03 -4.64e-03 4.16e-03 3.21e-03 -1.08e-02 9.06e-03 2.13e-02  
## 130 -6.44e-03 -2.64e-03 -3.59e-03 5.71e-03 -2.06e-03 -4.84e-03 3.29e-02  
## 131 -3.09e-02 4.60e-03 -8.91e-03 6.03e-03 2.03e-02 -9.08e-03 7.42e-02  
## 132 2.94e-02 3.00e-02 1.82e-02 1.42e-02 2.21e-02 1.87e-02 -1.17e-01  
## 133 -2.49e-03 -2.54e-03 -2.74e-03 2.62e-03 -2.89e-03 6.80e-04 -1.31e-02  
## 134 3.06e-02 -7.19e-03 1.40e-02 2.76e-03 1.26e-02 -2.18e-02 -7.60e-02  
## 135 -5.71e-03 -4.45e-03 -2.48e-02 3.32e-03 1.02e-02 -2.28e-02 -7.22e-02  
## 136 -4.76e-05 3.77e-03 -3.87e-03 -1.26e-03 -1.65e-03 -1.05e-03 9.83e-03  
## 137 1.24e-02 -4.72e-03 -9.64e-03 -2.16e-02 1.62e-02 9.02e-04 5.35e-02  
## 138 -3.58e-05 -5.65e-04 -1.42e-03 -4.88e-03 -2.78e-03 5.04e-03 -1.11e-02  
## 139 3.39e-05 -5.67e-04 1.37e-03 -1.33e-03 -3.42e-04 1.12e-03 -3.71e-03  
## 140 -1.07e-02 -9.92e-03 6.24e-03 -1.21e-02 -1.41e-02 8.49e-04 -4.53e-02  
## 141 2.27e-03 -1.19e-03 2.45e-03 -3.13e-04 5.29e-03 -1.51e-03 -1.23e-02  
## 142 4.93e-02 1.85e-02 -2.73e-02 -3.30e-03 1.12e-02 1.96e-02 -1.05e-01  
## 143 -1.36e-03 1.83e-02 -3.30e-03 -8.70e-03 3.35e-03 1.04e-02 3.85e-02  
## 144 6.11e-03 7.75e-04 -3.58e-03 -3.16e-04 4.17e-03 2.67e-03 2.08e-02  
## 145 1.03e-04 -2.15e-04 -5.90e-04 7.09e-04 7.32e-05 1.36e-03 -3.47e-03  
## 146 2.25e-03 1.20e-03 -7.77e-04 2.21e-06 7.16e-04 1.06e-03 4.53e-03  
## 147 -8.10e-04 4.58e-03 2.38e-03 2.69e-03 -5.64e-03 6.80e-03 1.57e-02  
## 148 -5.47e-03 -8.87e-03 1.94e-02 2.21e-03 1.50e-02 -2.10e-02 -6.41e-02  
## 149 6.38e-03 2.48e-03 6.22e-03 -3.34e-03 -1.15e-03 -1.53e-03 2.61e-02  
## 150 -1.90e-02 -1.06e-02 -9.12e-03 1.17e-02 -7.20e-03 -9.69e-03 4.78e-02  
## 151 -2.02e-02 -1.06e-02 -9.93e-03 1.61e-03 -1.28e-02 -5.67e-03 5.86e-02  
## 152 9.68e-03 -1.02e-03 -1.90e-02 -1.16e-02 -1.37e-02 1.42e-02 -4.27e-02  
## 153 -6.25e-04 -1.73e-03 -1.64e-03 -1.31e-04 -2.68e-03 5.93e-03 1.24e-02  
## 154 3.35e-03 -1.85e-03 -4.63e-03 -3.93e-03 1.08e-03 9.44e-04 -1.71e-02  
## 155 -1.98e-03 -5.99e-03 3.34e-03 3.45e-03 -7.74e-03 6.30e-03 1.91e-02  
## 156 -2.57e-02 -1.94e-03 -9.35e-03 -3.07e-02 2.20e-02 -1.72e-03 7.77e-02  
## 157 2.92e-02 -3.01e-03 -6.12e-03 -2.99e-02 1.07e-02 -2.34e-03 7.08e-02  
## 158 -4.14e-04 1.23e-04 1.24e-03 2.25e-03 -1.29e-03 8.58e-04 7.08e-03  
## 159 7.83e-03 1.40e-02 4.17e-03 6.66e-03 2.79e-03 -1.70e-03 2.97e-02  
## 160 -5.41e-05 1.01e-02 2.19e-03 -8.43e-03 -4.16e-03 4.41e-03 1.93e-02  
## 161 6.66e-04 -3.66e-03 -9.30e-03 1.13e-03 -4.27e-03 -7.77e-04 3.66e-02  
## 162 -1.75e-02 5.87e-03 -2.65e-02 -6.86e-03 -2.99e-02 9.71e-03 -7.64e-02  
## 163 1.88e-02 1.27e-02 -1.30e-02 1.06e-03 2.90e-02 2.44e-04 5.64e-02  
## 164 -1.98e-03 1.88e-03 -1.34e-03 -1.50e-03 -1.15e-03 -1.71e-04 6.39e-03  
## 165 -4.51e-04 1.72e-03 1.82e-03 2.79e-03 -2.95e-03 3.70e-03 1.17e-02  
## 166 4.33e-05 -4.86e-04 -1.46e-03 -4.79e-03 -2.61e-03 5.69e-03 -1.17e-02  
## 167 -1.37e-02 -7.99e-03 8.41e-03 2.63e-02 -1.95e-02 -1.82e-03 -4.88e-02  
## 168 2.78e-03 -1.42e-03 3.24e-03 2.98e-03 5.58e-03 -8.42e-04 -1.29e-02  
## 169 4.04e-02 4.11e-02 1.38e-02 -2.05e-02 1.40e-02 2.47e-02 -1.33e-01  
## 170 -1.63e-03 -6.51e-03 2.96e-03 -5.37e-04 -5.29e-03 2.92e-03 1.43e-02  
## 171 8.54e-03 2.84e-04 -5.32e-03 -6.95e-03 7.79e-03 -8.87e-04 2.64e-02  
## 172 7.29e-03 3.44e-03 3.59e-03 -3.09e-03 -9.51e-03 2.44e-02 -5.00e-02  
## 173 -7.10e-03 2.01e-02 9.18e-03 1.04e-02 2.85e-03 -1.05e-02 4.50e-02  
## 174 3.42e-03 -5.89e-03 1.02e-02 2.66e-02 -8.30e-03 -2.06e-02 -9.50e-02  
## 175 -3.40e-04 -3.06e-04 1.11e-03 -2.82e-03 -1.03e-03 6.22e-05 5.10e-03  
## 176 -2.39e-03 -1.03e-02 4.48e-03 1.37e-03 -6.46e-03 -2.75e-03 2.05e-02  
## 177 -1.13e-02 -5.49e-03 5.52e-03 -1.54e-02 -9.94e-03 6.64e-04 -4.48e-02  
## 178 -1.38e-02 -3.67e-03 -2.49e-02 2.99e-02 -2.52e-02 6.28e-03 -7.84e-02  
## 179 -1.70e-02 -9.55e-03 -5.59e-03 -3.15e-02 1.00e-02 -3.45e-02 9.45e-02  
## 180 -2.07e-04 -9.18e-04 -1.11e-03 -1.77e-04 -1.59e-04 -1.34e-03 3.32e-03  
## 181 -1.07e-02 -7.06e-03 -2.74e-02 4.59e-02 1.04e-02 -3.09e-02 -1.09e-01  
## 182 3.80e-03 3.25e-03 1.38e-02 1.02e-02 -3.89e-03 1.21e-02 4.15e-02  
## 183 2.05e-02 -1.71e-03 -2.27e-02 2.39e-02 -1.58e-02 8.26e-03 -5.66e-02  
## 184 -6.06e-03 -1.22e-04 5.66e-03 -2.77e-03 -2.29e-03 -2.04e-03 2.23e-02  
## 185 -1.78e-02 -5.56e-04 1.10e-02 -4.38e-03 -2.01e-02 1.19e-02 -6.57e-02  
## 186 -1.21e-02 -9.85e-03 1.77e-02 2.32e-03 1.33e-02 -3.61e-02 -8.93e-02  
## 187 2.53e-03 -2.20e-03 -9.51e-03 1.26e-02 -4.86e-03 6.58e-04 3.97e-02  
## 188 7.82e-03 -1.90e-03 1.26e-02 -1.78e-03 -4.16e-04 1.35e-02 4.98e-02  
## 189 -6.84e-04 2.07e-03 2.13e-03 -6.44e-04 -3.76e-03 3.54e-03 1.06e-02  
## 190 2.06e-03 -7.96e-03 1.02e-02 -2.81e-03 -4.51e-03 2.26e-04 3.12e-02  
## 191 -7.13e-03 -8.73e-04 -4.02e-03 -1.19e-03 -2.44e-03 -1.97e-04 1.72e-02  
## 192 1.81e-02 -1.82e-03 7.11e-03 -3.13e-03 -1.69e-02 2.15e-02 -6.30e-02  
## 193 1.89e-04 2.18e-04 -2.41e-03 4.28e-03 -3.46e-03 7.75e-03 -1.64e-02  
## 194 -2.05e-05 -2.14e-04 -3.06e-04 5.38e-06 -2.24e-06 -4.56e-04 -9.59e-04  
## 195 1.41e-04 -1.14e-03 -1.63e-03 9.50e-04 -2.01e-03 4.43e-03 -1.08e-02  
## 196 2.13e-02 -1.12e-02 -7.64e-03 5.87e-03 1.80e-02 -2.06e-02 6.97e-02  
## 197 -2.37e-04 6.13e-03 -5.13e-03 -5.71e-03 -3.52e-03 1.59e-03 1.43e-02  
## 198 -2.70e-03 -1.82e-02 -2.07e-03 7.24e-03 -5.28e-03 5.86e-03 3.77e-02  
## 199 5.67e-04 1.82e-03 -9.42e-04 -1.70e-03 -2.27e-04 3.69e-03 7.68e-03  
## 200 -2.15e-03 -5.13e-03 3.57e-03 2.85e-03 -8.61e-03 8.33e-03 2.20e-02  
## 201 -6.52e-03 8.40e-03 -7.77e-03 -5.81e-03 1.79e-02 -1.06e-02 5.95e-02  
## 202 1.42e-02 -3.88e-03 -8.64e-03 -1.02e-02 2.10e-02 -1.13e-02 6.04e-02  
## 203 3.30e-04 2.12e-03 2.83e-03 1.92e-03 1.23e-03 3.56e-03 9.67e-03  
## 204 2.70e-02 -1.21e-03 -9.56e-03 -1.50e-02 2.02e-02 -2.42e-03 7.30e-02  
## 205 1.12e-02 -1.03e-02 1.58e-02 -4.52e-03 1.61e-02 4.01e-03 4.04e-02  
## 206 1.20e-02 8.30e-03 -6.33e-03 -1.30e-02 1.42e-02 -4.16e-05 4.02e-02  
## 207 3.24e-03 -8.76e-04 3.36e-03 -3.75e-04 -1.60e-03 2.51e-03 -1.35e-02  
## 208 1.98e-02 -4.87e-03 -2.08e-02 4.62e-05 -2.32e-02 8.69e-03 -5.01e-02  
## 209 1.07e-02 1.90e-02 9.17e-03 -7.10e-03 -1.92e-02 3.17e-02 -7.85e-02  
## 210 -4.54e-04 -2.19e-03 -1.93e-03 -3.99e-04 -7.42e-04 4.21e-03 1.61e-02  
## 211 -5.50e-03 -8.03e-03 1.91e-02 2.14e-02 1.62e-02 -2.18e-02 -6.81e-02  
## 212 8.60e-03 4.94e-03 1.55e-02 -2.78e-03 -3.49e-03 2.48e-02 5.70e-02  
## 213 1.03e-04 -8.84e-04 -1.27e-03 -4.31e-03 -2.59e-03 4.67e-03 -1.16e-02  
## 214 -3.04e-04 -4.08e-04 9.31e-04 2.29e-04 -7.28e-04 6.65e-05 4.46e-03  
## 215 -2.74e-02 -2.14e-03 3.64e-02 7.76e-03 1.87e-02 -5.85e-03 8.58e-02  
## 216 -7.35e-03 -1.41e-02 -4.02e-03 -6.92e-03 -7.05e-03 -5.21e-03 3.31e-02  
## 217 -5.63e-03 -8.00e-04 -3.93e-03 -7.09e-04 -8.03e-03 8.11e-03 -2.32e-02  
## 218 -1.92e-03 -7.33e-04 1.09e-03 9.41e-04 -4.34e-04 9.48e-04 -5.19e-03  
## 219 3.21e-04 -2.97e-04 3.62e-04 4.07e-04 5.36e-04 -6.72e-05 -1.73e-03  
## 220 3.06e-02 5.62e-03 -8.48e-03 -3.60e-02 2.20e-02 -5.74e-03 7.68e-02  
## 221 -1.34e-02 -8.08e-03 8.93e-03 -1.16e-03 -2.07e-02 -1.36e-04 -3.97e-02  
## 222 1.12e-04 -2.67e-04 -1.60e-03 2.13e-03 -5.39e-04 3.98e-03 -9.33e-03  
## 223 -9.77e-04 5.88e-03 -9.31e-03 -2.00e-03 -8.98e-03 9.50e-03 2.28e-02  
## 224 -9.08e-03 8.29e-03 -2.60e-02 -2.25e-02 3.80e-03 -8.38e-03 -1.01e-01  
## 225 -1.16e-03 3.60e-03 -7.29e-03 -1.01e-02 -7.92e-03 5.80e-03 1.88e-02  
## 226 -1.31e-02 1.25e-02 -1.11e-02 1.48e-02 -1.55e-03 -2.21e-04 6.00e-02  
## 227 -6.10e-03 -1.10e-03 -6.25e-03 8.84e-03 -3.03e-03 -4.59e-03 2.55e-02  
## 228 -1.72e-02 -2.08e-03 -2.53e-02 -1.75e-02 9.83e-03 -7.76e-03 -8.73e-02  
## 229 -2.02e-02 -1.32e-02 -6.48e-03 -7.61e-03 1.03e-02 -3.76e-03 6.37e-02  
## 230 -1.84e-03 2.25e-03 -1.64e-03 -3.60e-04 -1.51e-03 -1.88e-04 7.20e-03  
## 231 -1.62e-03 8.19e-03 -3.30e-03 -9.29e-04 1.98e-03 2.27e-03 2.13e-02  
## 232 -8.41e-03 -1.11e-02 -3.65e-03 -1.89e-03 2.48e-03 2.78e-04 2.93e-02  
## 233 2.17e-02 -3.94e-03 9.60e-03 -1.37e-02 -2.02e-02 1.63e-02 -5.82e-02  
## 234 7.82e-05 -2.42e-04 -2.20e-03 1.98e-04 -3.01e-03 6.93e-03 -1.46e-02  
## 235 -2.58e-03 -9.97e-03 4.84e-03 7.52e-04 -7.51e-03 -1.26e-03 2.02e-02  
## 236 -1.41e-03 -8.07e-03 1.65e-02 -1.80e-02 1.94e-02 -1.65e-03 -7.70e-02  
## 237 1.07e-02 3.06e-02 -1.16e-02 9.79e-03 5.92e-03 1.12e-02 5.17e-02  
## 238 1.72e-02 1.69e-03 -1.06e-02 5.98e-03 1.76e-02 -9.04e-04 6.19e-02  
## 239 1.11e-02 -3.01e-03 1.98e-03 -2.58e-03 -6.62e-03 1.30e-02 -4.58e-02  
## 240 7.95e-05 4.91e-03 8.62e-04 1.83e-03 -8.07e-04 1.72e-03 7.86e-03  
## 241 1.60e-03 -1.59e-03 -3.88e-03 2.62e-03 3.26e-03 -2.39e-03 -1.23e-02  
## 242 8.56e-05 3.77e-04 6.51e-04 -4.07e-04 5.02e-06 7.48e-04 1.82e-03  
## 243 -4.33e-03 -1.28e-03 -3.36e-03 -1.33e-03 -2.74e-03 -6.11e-05 1.48e-02  
## 244 -5.88e-03 -1.07e-02 8.63e-03 4.66e-03 4.51e-04 3.10e-03 2.88e-02  
## 245 3.82e-03 -7.51e-04 -1.05e-02 2.38e-03 -1.48e-02 -9.03e-04 5.79e-02  
## 246 1.42e-02 6.12e-03 2.53e-02 8.00e-04 2.93e-02 -1.01e-02 7.78e-02  
## 247 -1.29e-02 2.56e-03 9.34e-03 1.21e-02 -2.30e-03 -2.47e-03 3.65e-02  
## 248 -1.24e-02 -5.85e-03 7.41e-03 -3.49e-03 -1.54e-02 6.07e-03 -5.81e-02  
## 249 -2.18e-03 -3.51e-03 2.58e-02 -1.91e-02 1.62e-02 -1.12e-02 -8.10e-02  
## 250 -1.09e-02 5.89e-03 -7.28e-03 6.53e-03 4.93e-03 -1.76e-03 4.20e-02  
## 251 1.38e-02 1.27e-03 -5.05e-03 5.50e-03 5.56e-03 -8.15e-04 3.11e-02  
## 252 -1.60e-02 -4.45e-03 -2.26e-02 -5.73e-04 -3.18e-02 -4.87e-06 -5.88e-02  
## 253 -1.83e-02 -7.20e-03 -2.63e-02 2.48e-03 1.40e-02 -1.21e-02 -9.91e-02  
## 254 -6.98e-03 -9.62e-04 7.89e-03 -3.01e-03 -5.04e-03 -5.56e-03 2.83e-02  
## 255 -3.08e-03 -6.53e-03 -1.03e-02 5.18e-03 -1.32e-02 6.80e-03 2.46e-02  
## 256 -6.46e-04 9.18e-04 -1.32e-03 1.51e-03 2.65e-04 -9.05e-04 6.88e-03  
## 257 5.05e-05 5.20e-04 8.41e-04 -4.98e-05 2.90e-04 5.90e-04 2.28e-03  
## 258 -1.56e-03 -2.10e-03 8.12e-03 -1.46e-03 1.08e-03 4.75e-04 1.97e-02  
## 259 -5.44e-03 -6.83e-03 1.93e-02 2.02e-02 1.93e-02 -2.31e-02 -8.05e-02  
## 260 -2.26e-02 -1.22e-02 -1.07e-02 5.78e-03 -9.66e-03 -5.74e-03 6.95e-02  
## 261 2.57e-02 -4.99e-03 1.17e-02 8.99e-04 1.63e-02 -1.14e-02 -7.84e-02  
## 262 7.76e-03 -6.15e-04 1.29e-03 -3.26e-03 -3.65e-03 1.83e-02 -4.07e-02  
## 263 -1.81e-02 -1.45e-02 -2.76e-03 1.13e-02 -1.68e-03 4.82e-03 5.84e-02  
## 264 -7.09e-03 9.98e-03 -5.32e-03 -6.78e-03 1.99e-03 -2.17e-03 2.59e-02  
## 265 -2.48e-03 -2.12e-03 1.10e-02 1.23e-02 3.97e-03 -4.46e-03 3.07e-02  
## 266 2.72e-03 -1.57e-03 -3.56e-03 -6.32e-03 3.02e-03 -1.38e-04 -1.38e-02  
## 267 5.28e-06 -6.62e-05 -4.52e-05 9.70e-05 8.85e-06 6.48e-05 -2.66e-04  
## 268 -1.71e-02 -1.20e-02 -6.23e-03 2.34e-02 1.25e-02 -3.14e-02 9.14e-02  
## 269 1.49e-03 -2.06e-02 -1.85e-02 -5.72e-02 -2.69e-02 5.92e-02 -1.40e-01  
## 270 1.72e-05 -6.20e-05 2.94e-04 -1.21e-05 4.60e-06 4.09e-04 -9.05e-04  
## 271 1.07e-02 4.99e-03 3.27e-03 -4.12e-03 -9.14e-03 1.29e-02 -5.83e-02  
## 272 -2.06e-03 -3.59e-03 3.62e-03 -2.49e-03 -1.02e-03 1.22e-03 -1.23e-02  
## 273 -1.28e-02 -7.24e-03 -2.54e-02 4.63e-02 1.00e-02 -4.29e-02 -1.02e-01  
## 274 -1.61e-02 -1.14e-02 3.89e-02 7.87e-03 1.41e-02 -2.95e-02 9.82e-02  
## 275 -1.46e-02 -8.04e-03 -2.12e-02 -1.38e-02 -2.98e-02 2.24e-03 -4.89e-02  
## 276 -1.28e-02 -1.23e-03 8.04e-03 -3.67e-03 -1.98e-02 2.10e-02 -7.07e-02  
## 277 9.33e-03 2.85e-02 4.41e-03 -1.59e-02 1.24e-02 -1.24e-02 -7.79e-02  
## 278 -2.61e-02 -5.89e-03 -8.22e-03 -1.75e-02 -1.52e-02 -5.02e-03 5.74e-02  
## 279 -1.42e-02 -1.30e-02 -1.03e-02 2.02e-03 -1.09e-02 -6.15e-03 6.62e-02  
## 280 1.65e-03 6.58e-04 1.29e-02 -2.02e-02 -5.59e-03 5.21e-03 4.25e-02  
## 281 5.59e-04 -1.65e-03 9.33e-03 8.68e-03 -1.98e-03 -1.96e-03 3.52e-02  
## 282 2.21e-03 -6.80e-04 1.26e-02 4.82e-04 -2.85e-03 2.78e-03 3.69e-02  
## 283 -3.30e-03 -6.80e-03 5.62e-03 4.62e-03 -1.40e-02 9.08e-03 3.41e-02  
## 284 5.87e-04 -4.91e-03 2.54e-03 3.96e-03 -4.42e-04 -1.05e-03 1.13e-02  
## 285 9.29e-03 1.13e-02 -2.60e-02 -1.96e-02 -2.17e-02 1.47e-02 -6.94e-02  
## 286 2.08e-02 3.01e-02 -1.06e-02 -9.34e-03 2.34e-02 6.70e-03 5.91e-02  
## 287 3.10e-03 -3.03e-03 -9.96e-03 2.22e-03 -7.26e-03 7.94e-03 3.57e-02  
## 288 -1.48e-02 -7.42e-03 -2.19e-02 -1.14e-04 -2.81e-02 1.20e-03 -5.64e-02  
## 289 -1.10e-02 -8.76e-03 7.00e-03 -1.91e-03 -1.46e-02 6.35e-03 -5.41e-02  
## 290 -5.44e-03 -1.74e-03 2.03e-02 2.03e-02 1.72e-02 -2.01e-02 -7.16e-02  
## 291 -1.34e-02 -2.19e-03 5.54e-03 -5.42e-03 -1.18e-02 7.24e-04 -4.78e-02  
## 292 1.67e-03 1.13e-03 2.62e-03 4.21e-03 1.02e-03 -2.32e-03 1.26e-02  
## 293 1.47e-02 6.94e-03 1.21e-02 1.35e-02 2.39e-02 -9.83e-03 4.85e-02  
## 294 -2.33e-02 1.03e-02 -5.92e-03 3.79e-03 1.75e-02 -2.16e-02 9.39e-02  
## 295 -2.19e-03 -6.43e-03 3.88e-03 4.06e-03 -7.71e-03 4.46e-03 1.74e-02  
## 296 -2.47e-03 -4.67e-03 4.29e-03 3.29e-03 -1.07e-02 9.12e-03 2.16e-02  
## 297 3.34e-03 2.22e-03 1.98e-03 1.68e-03 3.78e-03 1.89e-03 8.77e-03  
## 298 -1.12e-02 -1.32e-02 -3.29e-03 1.18e-02 -3.00e-03 -7.08e-03 7.35e-02  
## 299 -1.42e-02 -1.71e-02 -7.02e-03 6.18e-03 -1.79e-02 -1.65e-03 4.91e-02  
## 300 -1.28e-02 -3.81e-03 1.44e-02 -1.62e-02 -2.73e-02 8.51e-03 -6.95e-02  
## 301 -1.54e-02 1.33e-02 -8.67e-03 -1.92e-02 -9.90e-03 3.47e-03 5.05e-02  
## 302 6.45e-03 -3.54e-03 9.31e-04 -1.34e-03 -3.75e-03 8.57e-03 -2.56e-02  
## 303 -2.38e-02 -5.08e-03 -1.20e-02 3.54e-03 2.85e-02 -3.05e-02 8.77e-02  
## 304 1.46e-04 -1.41e-04 -4.42e-04 -1.25e-05 -2.00e-04 2.39e-04 -1.64e-03  
## 305 1.44e-02 -8.53e-03 -7.19e-03 2.08e-02 1.55e-02 2.21e-04 6.16e-02  
## 306 6.37e-06 -1.63e-04 -1.20e-04 -3.49e-04 -6.48e-05 2.75e-04 -8.46e-04  
## 307 -1.55e-02 2.44e-03 6.26e-03 -8.24e-03 -1.04e-02 -1.66e-03 -5.64e-02  
## 308 -3.88e-03 9.17e-03 5.49e-03 7.54e-03 2.20e-03 -3.32e-03 2.52e-02  
## 309 -1.33e-02 -1.44e-02 3.27e-02 8.77e-03 5.61e-03 -4.67e-03 7.57e-02  
## 310 -6.71e-03 -1.66e-03 -5.09e-03 -1.66e-03 -7.33e-03 -1.23e-03 2.65e-02  
## 311 -3.28e-03 -4.55e-03 -1.00e-02 -1.68e-02 -1.73e-02 1.24e-02 3.09e-02  
## 312 -1.99e-02 -1.26e-02 -9.35e-03 5.36e-03 1.72e-02 -1.31e-02 6.20e-02  
## 313 -7.11e-04 9.58e-03 8.62e-03 -1.56e-03 6.01e-03 -2.48e-03 2.51e-02  
## 314 1.94e-02 1.46e-02 -1.13e-02 3.17e-03 2.21e-02 1.46e-03 7.91e-02  
## 315 -1.89e-02 -5.40e-03 5.90e-03 -9.11e-04 -1.65e-02 6.25e-03 -4.19e-02  
## 316 -2.24e-03 -1.99e-03 7.75e-03 -1.35e-03 2.51e-03 1.91e-03 2.05e-02  
## 317 1.39e-04 -4.31e-04 2.39e-03 7.40e-05 -8.87e-04 3.47e-03 -7.08e-03  
## 318 4.20e-02 1.36e-02 -3.84e-02 1.38e-02 1.25e-02 1.95e-02 -1.34e-01  
## 319 9.26e-03 5.76e-03 4.16e-03 -5.56e-03 -3.01e-03 8.89e-03 -5.49e-02  
## 320 2.67e-02 -1.46e-02 -4.91e-03 -5.97e-03 8.97e-03 -2.96e-04 6.43e-02  
## 321 4.51e-02 1.91e-02 -4.65e-02 3.69e-02 5.01e-02 1.07e-02 -1.61e-01  
## 322 -4.38e-04 4.55e-04 -8.98e-04 1.14e-03 3.19e-04 -8.54e-04 4.87e-03  
## 323 3.35e-03 5.70e-03 -1.31e-02 -1.56e-03 -1.09e-02 1.44e-02 4.31e-02  
## 324 2.62e-03 8.51e-03 5.17e-03 6.90e-03 1.83e-03 3.32e-03 2.74e-02  
## 325 1.64e-04 -1.47e-04 1.86e-04 2.01e-04 -2.49e-05 1.35e-04 -1.04e-03  
## 326 -7.62e-03 -1.92e-02 -2.01e-03 -1.96e-03 -4.00e-03 9.29e-04 4.57e-02  
## 327 3.01e-02 -2.81e-03 -7.67e-03 5.28e-03 1.67e-02 -1.49e-02 9.29e-02  
## 328 -1.09e-02 -1.00e-02 6.25e-03 -8.62e-04 -1.39e-02 -3.22e-04 -4.12e-02  
## 329 1.75e-02 -8.57e-03 -9.00e-03 4.98e-03 -7.56e-03 5.87e-03 7.70e-02  
## 330 2.46e-02 3.95e-03 -8.65e-03 -1.22e-02 1.50e-02 -5.85e-03 8.39e-02  
## 331 4.53e-05 2.12e-03 -2.38e-03 1.81e-03 -2.71e-04 -1.34e-04 5.17e-03  
## 332 -1.16e-03 5.63e-03 -9.36e-03 4.41e-03 -8.86e-03 7.39e-03 2.08e-02  
## 333 2.32e-02 8.00e-03 -5.44e-03 -3.25e-03 4.83e-03 3.06e-03 4.41e-02  
## 334 -1.14e-02 -6.30e-03 7.28e-03 -2.26e-03 -1.40e-02 2.44e-03 -3.82e-02  
## 335 -1.47e-02 -3.93e-03 -1.93e-02 -1.44e-02 -2.21e-02 1.23e-02 -5.52e-02  
## 336 5.15e-02 3.62e-02 2.85e-02 3.17e-02 4.43e-02 -9.13e-03 -1.56e-01  
## 337 1.96e-03 -5.48e-02 1.17e-02 -1.50e-02 -1.07e-02 -1.02e-02 -9.14e-02  
## 338 2.15e-03 -1.61e-03 2.64e-03 -2.67e-03 4.23e-03 -1.00e-03 -1.05e-02  
## 339 -1.19e-02 -1.08e-02 -3.61e-03 -7.31e-03 4.28e-03 1.27e-03 5.60e-02  
## 340 1.02e-02 4.13e-02 5.56e-03 -1.99e-02 2.14e-02 -2.47e-02 -9.64e-02  
## 341 1.40e-03 -6.73e-03 7.84e-03 -8.56e-03 -4.08e-03 -3.28e-04 2.84e-02  
## 342 4.61e-03 -1.15e-03 -6.20e-03 -3.11e-04 7.84e-03 -1.83e-03 -2.06e-02  
## 343 4.30e-04 -2.23e-03 -7.93e-04 -8.48e-04 -1.05e-03 -1.90e-04 4.48e-03  
## 344 1.53e-04 8.91e-04 -4.70e-04 -1.11e-03 -2.78e-04 1.25e-03 -2.87e-03  
## 345 -4.30e-04 -9.41e-04 -2.66e-03 -1.11e-03 -1.10e-03 -7.41e-04 6.70e-03  
## 346 1.78e-02 1.96e-02 -1.13e-02 2.35e-03 1.52e-02 -4.36e-03 8.18e-02  
## 347 8.85e-03 -3.66e-03 3.39e-03 -1.04e-03 -1.19e-02 1.13e-02 -3.37e-02  
## 348 2.11e-04 -2.25e-04 -2.12e-03 3.30e-03 -2.56e-03 6.97e-03 -1.43e-02  
## 349 -1.92e-02 -8.37e-03 -9.19e-03 3.57e-03 -1.07e-02 3.38e-03 6.83e-02  
## 350 -2.79e-03 -4.78e-04 5.43e-03 -3.66e-03 1.18e-03 4.39e-03 1.82e-02  
## 351 1.07e-03 1.97e-03 -1.78e-03 -3.95e-04 -1.10e-04 -5.08e-04 5.77e-03  
## 352 3.96e-03 9.85e-03 7.18e-03 8.17e-03 3.36e-03 5.29e-03 3.19e-02  
## 353 -2.34e-02 9.19e-03 -5.88e-03 4.20e-03 1.79e-02 -2.31e-02 9.37e-02  
## 354 -1.34e-02 -2.16e-03 8.69e-03 2.47e-02 -1.47e-02 1.68e-02 -7.12e-02  
## 355 -2.07e-02 6.76e-03 1.36e-02 -4.24e-03 1.20e-02 -3.53e-03 -9.93e-02  
## 356 2.00e-02 -2.94e-03 6.48e-03 2.41e-02 -1.48e-02 2.47e-03 -5.25e-02  
## 357 7.60e-04 -2.09e-03 -1.14e-02 3.04e-03 -1.70e-02 2.31e-03 5.75e-02  
## 358 -2.72e-05 8.63e-03 -2.58e-03 4.91e-03 1.37e-03 7.75e-03 2.40e-02  
## 359 -1.12e-02 1.66e-02 -2.92e-02 1.61e-02 1.16e-03 -6.20e-03 -1.20e-01  
## 360 -6.53e-03 2.61e-03 1.54e-02 5.91e-03 9.30e-03 6.56e-04 4.33e-02  
## 361 -2.09e-03 -5.61e-03 3.30e-03 2.98e-03 -7.52e-03 6.44e-03 1.98e-02  
## 362 -2.42e-03 1.92e-02 -4.86e-03 -1.13e-02 1.00e-02 2.90e-04 4.11e-02  
## 363 1.52e-03 -5.19e-04 2.04e-03 -2.50e-04 6.45e-04 -4.09e-04 8.48e-03  
## 364 1.93e-05 1.62e-03 -2.06e-03 1.92e-03 1.29e-04 -1.12e-03 4.94e-03  
## 365 1.60e-02 -5.56e-03 -8.80e-03 -2.42e-02 2.05e-02 -1.54e-03 5.96e-02  
## 366 8.94e-03 1.66e-03 -2.21e-02 2.29e-02 -1.78e-02 1.84e-02 -5.73e-02  
## 367 -2.13e-02 -7.61e-03 -8.70e-03 -1.55e-02 -9.74e-03 4.27e-04 4.51e-02  
## 368 -2.51e-03 -4.77e-03 4.21e-03 3.39e-03 -1.11e-02 9.34e-03 2.15e-02  
## 369 -5.50e-04 -1.96e-03 -3.03e-03 3.13e-05 -3.32e-03 1.31e-02 3.16e-02  
## 370 -7.79e-05 -6.85e-04 7.74e-04 -2.11e-05 3.73e-04 -1.73e-03 -3.85e-03  
## 371 -2.42e-04 -5.09e-04 7.85e-04 1.61e-03 -3.46e-04 -2.91e-04 4.18e-03  
## 372 -1.42e-02 -5.59e-03 3.86e-03 -1.01e-03 -1.08e-02 8.80e-03 -3.53e-02  
## 373 3.57e-03 7.42e-03 2.29e-03 4.09e-03 5.22e-03 5.49e-04 1.81e-02  
## 374 -4.65e-03 -1.83e-03 -3.65e-03 -4.80e-04 2.19e-03 3.46e-03 2.61e-02  
## 375 -1.15e-02 -1.08e-02 -3.58e-03 -7.50e-03 5.77e-03 5.54e-04 5.65e-02  
## 376 -4.99e-03 -1.53e-03 6.93e-03 -1.56e-03 -5.24e-03 -2.53e-03 1.98e-02  
## 377 8.71e-03 5.39e-03 1.52e-02 9.55e-03 -2.16e-03 2.38e-02 5.79e-02  
## 378 8.59e-03 1.70e-02 4.30e-03 2.18e-02 -4.04e-03 1.69e-02 -6.79e-02  
## 379 1.75e-03 -1.40e-03 -2.48e-03 -1.93e-03 1.76e-03 5.84e-04 -8.38e-03  
## 380 2.14e-02 1.59e-02 1.90e-02 5.14e-03 2.98e-02 -1.26e-02 6.49e-02  
## 381 1.24e-02 3.13e-03 -5.60e-03 -9.47e-03 1.16e-02 -2.96e-03 3.68e-02  
## 382 -3.95e-03 -6.03e-03 -2.56e-02 -1.85e-02 6.54e-03 -7.44e-03 -8.27e-02  
## 383 3.68e-04 -2.40e-04 5.53e-04 5.36e-04 2.54e-04 3.69e-04 -3.17e-03  
## 384 1.73e-02 -5.90e-03 3.97e-03 8.45e-03 -1.11e-02 1.57e-02 -4.51e-02  
## 385 -2.16e-04 2.66e-02 -5.04e-03 -1.32e-02 6.72e-03 5.05e-03 4.75e-02  
## 386 1.14e-02 2.51e-02 -2.12e-02 -1.97e-02 4.69e-02 -2.28e-02 -1.15e-01  
## 387 -2.82e-02 2.37e-02 7.84e-03 -1.88e-02 1.15e-03 -1.19e-02 -9.59e-02  
## 388 -6.55e-03 -1.09e-03 -4.68e-03 2.88e-03 3.98e-05 -4.61e-03 2.13e-02  
## 389 -1.55e-02 -1.47e-02 -6.86e-03 2.37e-02 5.56e-03 3.90e-03 6.29e-02  
## 390 2.62e-03 6.08e-04 1.13e-02 -2.03e-03 -3.99e-03 1.20e-02 4.10e-02  
## 391 -1.57e-02 -7.95e-03 -3.52e-03 -2.96e-02 5.34e-03 -2.98e-03 6.96e-02  
## 392 -1.81e-02 -1.57e-02 -5.41e-03 -1.79e-02 -2.71e-02 -1.32e-02 6.52e-02  
## 393 3.13e-03 8.37e-03 -1.28e-02 -8.36e-04 -1.78e-02 1.69e-02 5.99e-02  
## 394 -1.97e-03 -7.04e-03 3.58e-03 4.23e-03 -5.90e-03 2.06e-03 1.55e-02  
## 395 -1.32e-02 -1.29e-02 -1.63e-03 1.23e-02 -4.16e-03 6.12e-03 7.07e-02  
## 396 1.59e-03 -1.40e-03 1.92e-03 -2.93e-05 3.02e-03 -5.97e-04 -7.58e-03  
## 397 -9.62e-03 -2.06e-02 -4.77e-03 -2.02e-02 -5.67e-03 -1.14e-02 7.28e-02  
## 398 -1.97e-02 9.85e-03 1.11e-02 1.00e-02 -2.18e-02 -1.36e-03 -7.30e-02  
## 399 -1.31e-02 -1.84e-02 -7.30e-03 5.66e-03 -1.36e-02 -7.40e-03 6.81e-02  
## 400 -4.05e-04 -2.54e-06 1.32e-03 2.44e-03 -1.26e-03 7.35e-04 7.30e-03  
## 401 -3.45e-04 -3.05e-04 9.89e-04 -2.56e-03 -9.99e-04 3.91e-05 4.65e-03  
## 402 -6.61e-04 2.31e-03 2.18e-03 -4.29e-03 -4.20e-03 4.28e-03 1.16e-02  
## 403 6.67e-03 5.27e-02 7.10e-03 2.21e-03 1.97e-02 -4.46e-02 -1.17e-01  
## 404 -2.61e-03 4.33e-03 -4.02e-03 3.62e-03 -1.49e-03 8.66e-04 -1.79e-02  
## 405 5.94e-05 7.76e-03 -5.76e-03 3.24e-03 -2.31e-03 2.28e-03 1.31e-02  
## 406 1.51e-04 -4.47e-04 2.81e-03 7.20e-05 -9.67e-04 3.94e-03 -8.31e-03  
## 407 1.31e-02 -1.13e-03 -4.08e-03 -6.57e-03 1.60e-03 6.86e-03 2.75e-02  
## 408 -1.59e-02 -1.06e-02 -4.44e-03 2.52e-02 7.94e-03 -1.08e-02 8.23e-02  
## 409 1.00e-02 1.42e-02 3.64e-02 -1.49e-02 5.25e-02 -3.75e-02 -9.12e-02  
## 410 1.07e-02 1.42e-02 3.72e-02 -1.41e-02 5.34e-02 -3.74e-02 -9.22e-02  
## 411 -7.97e-03 -9.17e-03 4.20e-03 -1.62e-03 -1.03e-02 9.93e-03 -4.33e-02  
## 412 -1.09e-03 -1.98e-03 -4.69e-03 -4.91e-03 -3.96e-03 -3.04e-03 1.43e-02  
## 413 1.79e-02 -4.22e-03 -8.63e-03 8.61e-03 1.68e-02 2.37e-03 5.81e-02  
## 414 1.04e-02 -1.38e-02 -4.67e-03 6.21e-03 2.76e-03 -1.05e-03 3.70e-02  
## 415 1.48e-02 -9.68e-03 -4.99e-03 -1.57e-02 8.35e-03 1.19e-02 5.72e-02  
## 416 1.14e-02 -3.72e-03 1.99e-02 -2.27e-02 2.02e-02 -1.93e-03 5.68e-02  
## 417 -9.40e-04 2.37e-03 -1.33e-03 -1.73e-03 5.38e-04 2.48e-03 8.97e-03  
## 418 -2.59e-05 3.59e-03 -4.19e-03 3.74e-03 -1.15e-03 -1.18e-03 1.04e-02  
## 419 2.87e-02 1.10e-02 -3.05e-02 -6.15e-03 -2.71e-02 9.85e-03 -8.44e-02  
## 420 -1.31e-02 -7.52e-03 6.75e-03 2.25e-02 -1.18e-02 4.44e-03 -5.58e-02  
## 421 -4.04e-03 -7.89e-03 -1.24e-02 6.61e-03 -1.95e-02 9.07e-03 3.85e-02  
## 422 1.75e-02 8.11e-03 -1.10e-02 -3.34e-02 2.31e-02 4.52e-03 6.20e-02  
## 423 -1.06e-02 4.46e-03 1.62e-02 -5.06e-03 1.66e-02 -1.13e-02 5.54e-02  
## 424 -4.54e-04 -1.53e-03 1.42e-03 2.90e-03 -6.88e-04 -1.85e-03 7.49e-03  
## 425 5.09e-03 -4.29e-03 9.73e-03 -1.68e-02 -2.43e-03 1.23e-03 4.63e-02  
## 426 2.70e-03 -1.14e-02 1.18e-02 -8.51e-03 -5.65e-03 9.54e-04 3.84e-02  
## 427 -4.29e-03 7.21e-03 -2.80e-03 -1.45e-02 -6.32e-03 6.85e-03 4.80e-02  
## 428 -2.85e-02 -1.54e-03 3.29e-02 4.65e-03 3.06e-02 -1.32e-02 8.52e-02  
## 429 1.77e-02 2.51e-03 -9.13e-03 -3.01e-02 1.73e-02 2.58e-03 6.23e-02  
## 430 -1.54e-03 3.08e-03 -2.98e-03 2.47e-03 4.47e-04 7.74e-04 -1.25e-02  
## 431 1.54e-02 9.84e-02 4.16e-02 -5.36e-02 1.26e-02 6.04e-02 -1.64e-01  
## 432 9.54e-04 -4.15e-04 1.91e-03 -2.29e-04 -1.96e-05 1.17e-03 -8.11e-03  
## 433 2.57e-03 -2.84e-03 8.34e-03 -7.32e-04 -4.57e-03 3.71e-04 3.67e-02  
## 434 -5.63e-03 2.81e-06 1.99e-02 4.12e-02 1.80e-02 -2.03e-02 -8.10e-02  
## 435 4.28e-08 1.69e-03 -1.90e-03 4.81e-04 -3.27e-04 -4.43e-04 4.34e-03  
## 436 1.57e-02 -1.35e-02 -8.28e-03 -6.87e-03 -6.15e-03 -1.53e-03 5.34e-02  
## 437 -2.65e-04 -4.51e-04 8.72e-04 -2.12e-03 -6.63e-04 -3.33e-04 4.42e-03  
## 438 -1.97e-04 -9.16e-04 9.28e-04 3.11e-06 5.79e-04 -2.64e-03 -4.98e-03  
## 439 -1.80e-02 -1.51e-02 -5.55e-03 -1.94e-02 6.57e-03 -1.57e-04 6.48e-02  
## 440 5.33e-03 -4.48e-03 1.03e-02 9.04e-03 -2.11e-03 -7.02e-04 4.12e-02  
## 441 -1.13e-02 -2.04e-02 -8.92e-03 8.34e-03 1.78e-02 -3.66e-02 8.91e-02  
## 442 -9.05e-03 -1.65e-02 2.49e-02 -4.30e-03 -1.52e-03 9.36e-03 6.32e-02  
## 443 -1.65e-03 -2.48e-03 -3.92e-03 1.28e-02 -6.98e-05 -3.09e-05 2.72e-02  
## 444 -2.34e-02 -9.16e-03 1.22e-02 2.13e-03 -6.50e-03 -2.69e-03 5.04e-02  
## 445 -1.67e-02 -1.10e-02 2.24e-02 6.76e-03 1.80e-02 4.10e-03 5.90e-02  
## 446 8.54e-03 3.54e-02 4.19e-03 -1.81e-02 1.51e-02 -2.17e-02 -9.02e-02  
## 447 -1.45e-02 -7.65e-03 -2.15e-02 -1.43e-02 -2.87e-02 1.30e-03 -4.90e-02  
## 448 -4.75e-05 6.83e-04 -1.20e-03 -1.01e-03 -2.96e-04 -7.38e-04 3.14e-03  
## 449 -1.52e-02 -5.24e-03 -1.02e-02 4.47e-03 2.37e-02 -2.91e-02 8.74e-02  
## 450 6.70e-05 -2.17e-03 -4.53e-03 3.35e-03 -2.52e-03 -5.68e-03 -1.60e-02  
## 451 -1.71e-04 -8.90e-04 5.31e-04 1.16e-03 -4.74e-05 -1.20e-03 2.98e-03  
## 452 -1.95e-02 -1.19e-02 -9.15e-03 1.31e-02 -1.07e-02 -8.43e-03 5.17e-02  
## 453 -5.69e-03 -1.53e-02 -3.07e-03 -6.39e-03 -5.49e-03 -5.68e-03 3.17e-02  
## 454 2.22e-02 9.19e-03 8.96e-03 -7.54e-03 -2.16e-02 -9.30e-04 -6.87e-02  
## 455 7.40e-06 -1.20e-04 -1.42e-04 -3.99e-04 -7.95e-05 3.89e-04 -9.61e-04  
## 456 -1.49e-02 -1.03e-02 -5.10e-03 8.99e-03 4.45e-03 -2.47e-02 7.17e-02  
## 457 1.64e-02 2.64e-03 1.17e-02 -1.23e-02 1.16e-02 -4.41e-03 3.96e-02  
## 458 -2.95e-03 5.77e-03 4.07e-03 -5.01e-03 -3.01e-05 -2.36e-03 1.68e-02  
## 459 -2.38e-03 -5.04e-03 4.22e-03 3.64e-03 -1.07e-02 8.55e-03 2.48e-02  
## 460 1.94e-02 1.60e-02 -1.28e-02 1.64e-03 2.73e-02 -7.82e-03 6.86e-02  
## 461 -2.09e-03 -5.63e-03 3.14e-03 2.93e-03 -7.28e-03 5.96e-03 1.89e-02  
## 462 -2.03e-02 -8.84e-03 -6.61e-03 -1.93e-02 -1.73e-02 -4.46e-03 5.77e-02  
## 463 7.93e-03 2.51e-03 -1.85e-02 -2.11e-03 -1.53e-02 2.08e-02 -5.05e-02  
## 464 1.06e-02 -2.40e-03 2.31e-03 -2.11e-03 -7.84e-03 1.80e-02 -3.98e-02  
## 465 2.32e-04 1.74e-03 -8.07e-04 -1.43e-03 -1.28e-03 3.13e-03 6.92e-03  
## 466 -4.15e-03 3.38e-03 -3.42e-03 6.91e-03 4.60e-03 -3.58e-03 2.00e-02  
## 467 8.31e-04 7.20e-03 8.90e-03 5.05e-03 1.07e-03 7.04e-03 2.63e-02  
## 468 1.18e-02 -5.32e-04 -2.60e-03 5.45e-03 1.71e-03 8.77e-03 2.62e-02  
## 469 -1.62e-05 -1.06e-03 -4.74e-04 -1.44e-03 -5.16e-04 7.22e-04 -4.02e-03  
## 470 4.58e-02 1.12e-02 -2.77e-02 -2.48e-03 7.42e-03 -8.62e-03 -9.43e-02  
## 471 -1.08e-03 3.50e-03 3.85e-03 4.86e-03 -5.99e-03 3.70e-03 2.16e-02  
## 472 3.97e-02 -5.22e-03 1.57e-02 1.45e-03 1.69e-02 -8.70e-03 -6.87e-02  
## 473 -2.24e-02 -5.88e-03 -1.21e-02 1.79e-02 -1.70e-02 -1.13e-02 7.32e-02  
## 474 1.22e-03 -6.09e-03 4.41e-03 5.65e-03 -4.89e-04 -1.24e-03 1.97e-02  
## 475 -1.23e-02 -6.96e-03 9.91e-03 -1.42e-03 -2.31e-02 8.64e-03 -5.89e-02  
## 476 -1.46e-02 7.14e-04 8.08e-03 -6.44e-03 -1.69e-02 7.82e-03 -5.57e-02  
## 477 -1.41e-02 -1.37e-02 -4.94e-03 4.49e-03 -1.35e-02 -3.98e-03 4.93e-02  
## 478 8.17e-03 -1.00e-02 -9.28e-03 1.80e-03 -6.17e-03 -1.42e-02 4.66e-02  
## 479 9.95e-03 2.18e-03 4.57e-03 -1.94e-03 -1.70e-02 1.97e-02 -5.03e-02  
## 480 -1.85e-02 4.02e-03 -2.80e-02 3.39e-02 -3.26e-02 -5.30e-03 -8.08e-02  
## 481 1.08e-04 4.03e-03 5.80e-04 1.38e-03 -7.78e-04 2.07e-03 7.03e-03  
## 482 4.33e-02 4.75e-02 2.18e-02 3.08e-02 1.02e-02 1.77e-02 -1.39e-01  
## 483 -2.78e-02 2.76e-03 -7.30e-03 6.60e-03 1.79e-02 -8.32e-04 7.94e-02  
## 484 -2.31e-05 -2.38e-03 -1.14e-03 -3.09e-03 -3.29e-03 6.50e-03 1.36e-02  
## 485 -2.06e-02 -1.22e-03 7.28e-03 -2.69e-03 -1.78e-02 1.31e-02 -6.16e-02  
## 486 -3.55e-03 8.86e-03 -3.69e-03 2.90e-04 5.27e-03 9.32e-03 2.69e-02  
## 487 -2.24e-02 -2.23e-04 -4.48e-03 7.58e-03 1.50e-02 -3.34e-02 8.43e-02  
## 488 2.82e-04 -3.88e-04 3.58e-04 4.43e-04 6.36e-04 -2.87e-04 -2.06e-03  
## 489 -1.08e-02 -6.76e-03 8.10e-03 -6.00e-04 -1.65e-02 3.55e-03 -4.77e-02  
## 490 2.03e-04 1.01e-02 -3.23e-03 -6.29e-03 4.12e-04 8.69e-03 2.52e-02  
## 491 9.76e-03 3.22e-03 -1.09e-02 -4.13e-04 -1.51e-02 -9.06e-04 5.97e-02  
## 492 -1.28e-02 -5.44e-03 1.25e-02 -1.91e-03 -2.34e-02 8.46e-03 -6.38e-02  
## 493 -8.92e-03 -1.66e-04 6.85e-03 -4.80e-03 -4.78e-03 1.78e-04 2.35e-02  
## 494 -2.46e-03 -4.68e-03 4.33e-03 3.32e-03 -1.07e-02 9.14e-03 2.17e-02  
## 495 3.60e-02 -2.58e-02 2.09e-02 3.77e-02 8.69e-03 2.23e-03 -1.17e-01  
## 496 8.50e-04 -4.91e-03 3.64e-03 4.58e-03 -2.51e-04 -2.32e-03 1.55e-02  
## 497 1.46e-04 -2.85e-04 -2.18e-03 3.40e-03 -2.51e-03 6.74e-03 -1.45e-02  
## 498 -8.76e-03 -7.46e-03 -2.69e-02 2.23e-03 1.35e-02 -2.39e-02 -1.01e-01  
## 499 2.40e-02 4.77e-03 8.40e-03 2.41e-02 -1.01e-02 2.79e-02 -7.84e-02  
## 500 -4.10e-03 1.00e-03 1.55e-02 -3.94e-03 9.09e-03 -1.20e-02 4.14e-02  
## 501 8.70e-03 1.03e-02 -3.97e-03 7.95e-04 5.71e-03 6.54e-03 2.73e-02  
## 502 6.13e-04 3.15e-04 -4.00e-04 3.13e-04 1.47e-04 -7.39e-05 -1.64e-03  
## 503 6.07e-03 -1.01e-02 -3.65e-03 -5.17e-03 4.00e-03 5.19e-04 2.32e-02  
## 504 -7.00e-03 -2.14e-03 4.99e-03 -1.03e-04 3.82e-03 -2.64e-04 -2.06e-02  
## 505 1.84e-02 1.41e-03 4.12e-03 -5.77e-03 -4.12e-03 1.64e-02 -5.69e-02  
## 506 2.01e-02 -7.15e-04 -1.37e-02 2.23e-02 2.18e-02 -1.14e-02 8.36e-02  
## 507 1.04e-02 1.75e-03 4.87e-03 -1.90e-03 -1.53e-02 2.03e-02 -5.50e-02  
## 508 -1.53e-02 1.79e-03 9.34e-03 -3.63e-03 -2.19e-02 1.03e-02 -6.51e-02  
## 509 -2.45e-03 -4.80e-03 4.39e-03 3.51e-03 -1.10e-02 9.43e-03 2.19e-02  
## 510 -1.22e-02 6.08e-03 1.47e-02 -6.42e-03 1.94e-02 -1.38e-02 6.41e-02  
## 511 -4.06e-03 -1.88e-02 -3.85e-03 8.09e-03 -4.17e-03 7.79e-03 4.51e-02  
## 512 -9.13e-03 -7.73e-03 4.74e-03 -2.30e-03 -8.46e-03 2.82e-03 -4.02e-02  
## 513 -5.58e-03 -1.74e-02 -1.20e-03 -1.15e-02 -5.27e-03 7.87e-03 4.31e-02  
## 514 1.16e-02 -1.30e-02 -7.51e-03 -4.61e-03 8.15e-03 -1.26e-02 5.00e-02  
## 515 9.19e-03 3.59e-02 -3.90e-02 2.91e-02 -5.60e-03 4.88e-03 -9.33e-02  
## 516 1.43e-03 9.12e-04 2.34e-03 3.61e-03 1.17e-03 -3.94e-04 1.04e-02  
## 517 1.87e-02 1.03e-02 3.10e-02 2.22e-03 2.96e-02 -7.45e-04 7.95e-02  
## 518 -1.67e-02 6.09e-03 1.09e-02 2.74e-02 -1.70e-02 1.04e-03 -8.48e-02  
## 519 -2.07e-03 -5.75e-03 3.56e-03 -5.94e-03 -7.63e-03 4.71e-03 1.60e-02  
## 520 -8.86e-04 -1.57e-03 -2.96e-03 6.63e-03 -1.82e-03 9.74e-03 2.82e-02  
## 521 3.76e-03 -4.64e-03 -9.31e-03 6.02e-03 -1.47e-02 3.56e-03 5.79e-02  
## 522 -1.19e-02 -1.58e-02 1.74e-02 -1.22e-02 6.62e-03 9.58e-03 4.84e-02  
## 523 -1.80e-02 3.89e-03 -2.90e-02 2.81e-02 -2.26e-02 -3.80e-03 -6.60e-02  
## 524 8.19e-03 1.28e-02 4.61e-03 -8.55e-03 -9.56e-04 3.43e-03 -5.47e-02  
## 525 1.34e-02 4.42e-04 8.40e-03 4.05e-03 8.63e-03 2.73e-03 2.90e-02  
## 526 1.44e-04 9.13e-04 -5.74e-04 3.06e-05 -5.98e-04 1.90e-03 4.42e-03  
## 527 1.30e-02 -8.87e-04 -3.08e-03 -8.30e-04 3.57e-03 4.24e-03 2.72e-02  
## 528 -8.59e-06 -5.12e-04 -1.54e-04 -4.66e-04 -7.95e-05 8.22e-05 -1.26e-03  
## 529 1.65e-02 1.29e-02 -3.33e-03 -7.13e-03 1.35e-03 6.17e-03 3.44e-02  
## 530 1.18e-04 4.32e-03 -3.74e-03 -1.87e-03 -1.22e-03 1.30e-03 8.48e-03  
## 531 1.81e-04 2.44e-04 -2.18e-03 3.44e-04 -3.97e-03 8.26e-03 -1.54e-02  
## 532 3.24e-02 1.13e-02 -1.07e-02 7.16e-04 2.85e-02 -1.21e-02 7.38e-02  
## 533 7.81e-04 -3.50e-03 -2.26e-03 -2.05e-04 -4.06e-03 1.37e-02 3.46e-02  
## 534 1.46e-02 -5.44e-03 4.22e-03 -1.36e-03 -1.05e-02 8.74e-03 -3.46e-02  
## 535 3.56e-02 -1.91e-04 -9.64e-03 5.71e-03 1.81e-02 -2.31e-02 8.34e-02  
## 536 1.08e-02 -1.28e-02 -3.14e-03 -9.18e-03 4.21e-03 6.31e-03 4.03e-02  
## 537 1.80e-03 1.34e-03 -4.59e-03 5.28e-03 -6.75e-04 -1.88e-03 1.58e-02  
## 538 -1.72e-03 1.98e-04 -2.13e-03 -3.59e-04 4.77e-04 1.12e-02 3.00e-02  
## 539 6.78e-04 -8.59e-04 9.19e-04 1.05e-03 8.63e-04 -3.70e-04 -4.29e-03  
## 540 -1.32e-04 -8.21e-04 8.80e-04 1.15e-03 6.16e-04 -2.40e-03 -4.88e-03  
## 541 -3.53e-02 -7.20e-04 -1.23e-02 1.80e-02 -1.82e-02 8.68e-04 6.70e-02  
## 542 -2.48e-03 -4.79e-03 4.31e-03 3.46e-03 -1.10e-02 9.39e-03 2.17e-02  
## 543 -1.75e-02 -3.33e-03 3.92e-03 2.03e-02 -1.02e-02 6.58e-03 -4.56e-02  
## 544 -2.55e-02 1.72e-02 2.00e-02 2.00e-02 1.06e-02 -1.07e-03 -1.13e-01  
## 545 -1.43e-02 1.25e-02 -8.41e-03 -1.81e-02 1.70e-02 5.59e-03 5.42e-02  
## 546 -3.35e-02 1.71e-02 8.82e-03 -3.02e-02 -2.24e-02 3.20e-03 -8.89e-02  
## 547 -1.80e-03 -1.68e-03 -1.69e-03 -6.62e-03 -1.79e-03 8.40e-03 2.68e-02  
## 548 1.98e-02 5.43e-03 -4.53e-03 -1.13e-02 -1.38e-03 5.28e-03 4.49e-02  
## 549 -2.09e-03 -6.43e-03 3.52e-03 3.81e-03 -6.72e-03 3.31e-03 1.58e-02  
## 550 6.91e-05 1.77e-03 -1.01e-03 -1.45e-03 -4.55e-04 2.98e-03 6.52e-03  
## 551 -9.73e-05 -4.04e-04 3.83e-04 5.14e-04 1.58e-04 -1.03e-03 -2.21e-03  
## 552 1.42e-04 -1.58e-03 -1.64e-03 4.23e-03 -1.29e-03 3.27e-03 -1.10e-02  
## 553 -4.26e-05 8.26e-03 -6.59e-03 -3.28e-03 -3.71e-03 1.60e-03 1.74e-02  
## 554 -1.73e-02 6.23e-03 8.09e-03 2.72e-02 -1.32e-02 1.27e-04 -6.87e-02  
## 555 -5.10e-03 -1.54e-03 -2.98e-03 -3.06e-03 -3.08e-03 -1.47e-04 1.35e-02  
## 556 -2.38e-03 -4.54e-03 4.24e-03 -1.35e-02 -1.12e-02 9.50e-03 2.33e-02  
## 557 1.76e-03 -1.10e-04 1.79e-03 2.35e-03 8.34e-05 -1.12e-03 7.26e-03  
## 558 1.66e-02 2.89e-03 2.43e-02 1.57e-03 3.06e-02 5.96e-04 5.20e-02  
## 559 3.51e-03 -7.85e-04 -1.15e-02 -8.23e-04 -7.90e-03 6.50e-03 4.09e-02  
## 560 -2.24e-03 9.22e-04 -2.84e-03 7.43e-03 1.33e-03 7.60e-03 3.63e-02  
## 561 -4.63e-03 -6.13e-03 -1.32e-02 6.60e-03 -2.32e-02 1.04e-02 4.35e-02  
## 562 -1.98e-02 -8.22e-03 1.45e-02 -1.10e-02 -7.64e-03 -5.35e-03 5.48e-02  
## 563 7.73e-04 1.48e-02 -5.04e-03 -9.11e-04 3.75e-03 1.11e-02 3.47e-02  
## 564 1.04e-02 -8.53e-03 1.26e-02 -1.88e-02 -6.87e-03 -3.90e-03 4.76e-02  
## 565 5.81e-03 -1.44e-03 5.84e-03 -4.35e-04 3.08e-04 -1.44e-04 -2.04e-02  
## 566 -7.40e-03 9.31e-03 1.87e-02 3.76e-03 2.82e-02 -1.67e-02 6.51e-02  
## 567 -7.24e-03 -2.99e-03 -5.79e-03 -1.90e-04 2.61e-03 -8.38e-04 -2.34e-02  
## 568 8.12e-03 1.31e-02 4.24e-03 -8.64e-03 -1.67e-03 3.12e-03 -5.25e-02  
## 569 9.12e-03 1.14e-02 -9.91e-03 -7.44e-03 -1.07e-04 1.29e-03 4.67e-02  
## 570 8.25e-05 -6.21e-04 2.06e-03 2.44e-04 -4.30e-04 1.99e-03 -4.96e-03  
## 571 1.49e-03 4.12e-03 2.58e-03 -2.63e-03 -1.47e-04 -3.25e-04 1.16e-02  
## 572 -1.39e-02 6.76e-03 9.05e-03 -6.59e-03 -7.20e-04 -2.86e-03 3.70e-02  
## 573 1.00e-02 -7.53e-03 -4.43e-02 5.35e-03 -9.14e-03 -2.21e-02 -1.00e-01  
## 574 -1.11e-02 -1.67e-02 -2.64e-03 1.09e-02 -2.28e-03 -2.24e-02 8.04e-02  
## 575 7.86e-04 -8.22e-04 8.22e-04 -1.52e-03 2.99e-04 2.61e-04 -3.84e-03  
## 576 2.33e-02 6.91e-03 1.63e-02 -1.62e-02 1.64e-02 -3.23e-03 5.49e-02  
## 577 1.83e-02 7.96e-03 -1.21e-02 2.23e-03 2.83e-02 1.00e-05 5.34e-02  
## 578 -2.47e-02 -9.30e-03 -6.21e-03 9.00e-03 1.07e-03 -7.30e-03 7.04e-02  
## 579 -3.31e-03 -4.70e-03 -1.15e-02 4.51e-03 -1.63e-02 1.11e-02 2.83e-02  
## 580 1.17e-02 4.01e-02 -1.86e-02 -2.20e-02 3.96e-02 -2.56e-02 -1.02e-01  
## 581 -1.43e-02 -4.42e-03 -2.16e-02 -1.64e-02 -3.45e-02 1.10e-02 -6.55e-02  
## 582 -1.39e-02 -3.76e-03 2.98e-03 -1.95e-03 -5.19e-03 1.11e-02 -3.94e-02  
## 583 -2.93e-03 -5.61e-03 -1.09e-02 4.38e-03 -1.48e-02 1.11e-02 2.91e-02  
## 584 -3.17e-03 -5.11e-03 -1.15e-02 5.02e-03 -1.62e-02 1.10e-02 2.84e-02  
## 585 -1.09e-02 -6.06e-03 2.03e-03 -1.10e-03 -6.10e-03 6.86e-03 -3.12e-02  
## 586 8.47e-04 1.32e-03 -8.11e-04 -1.92e-04 -1.90e-04 -5.56e-05 3.55e-03  
## 587 -5.86e-04 2.78e-03 1.82e-03 2.50e-03 -3.91e-03 5.18e-03 1.37e-02  
## 588 -9.09e-04 2.27e-03 -1.31e-03 1.61e-03 2.22e-04 2.63e-03 7.52e-03  
## 589 3.84e-03 -1.15e-03 -6.31e-03 -5.52e-03 6.39e-03 -4.13e-03 -2.13e-02  
## 590 4.92e-04 1.45e-03 -1.06e-03 7.41e-05 -1.61e-04 3.15e-03 6.76e-03  
## 591 -3.53e-04 -1.18e-03 9.72e-04 6.32e-04 -6.23e-04 -1.22e-03 4.74e-03  
## 592 1.90e-03 -1.73e-03 -2.28e-03 2.26e-04 2.18e-03 -7.84e-04 -8.68e-03  
## 593 1.11e-02 -8.98e-03 -8.53e-03 -5.66e-03 1.17e-02 -9.37e-03 4.86e-02  
## 594 3.69e-03 3.42e-03 1.35e-02 9.79e-03 -3.49e-03 1.16e-02 4.08e-02  
## 595 -6.98e-03 2.32e-02 2.77e-02 -2.93e-02 2.45e-02 1.93e-02 -1.15e-01  
## 596 9.09e-03 1.25e-02 4.63e-03 6.30e-03 4.31e-03 -4.30e-03 3.08e-02  
## 597 -2.90e-02 -5.76e-03 1.80e-02 1.38e-02 -6.91e-03 -6.94e-03 6.38e-02  
## 598 -1.20e-02 8.10e-03 -5.09e-03 -2.12e-03 6.39e-03 6.45e-03 4.44e-02  
## 599 3.07e-05 -5.95e-04 1.78e-03 1.43e-04 -3.50e-04 1.92e-03 -4.79e-03  
## 600 1.58e-02 -4.92e-03 -9.69e-03 -1.08e-02 2.15e-02 -3.51e-03 5.61e-02  
## 601 -7.83e-04 4.97e-03 2.47e-03 2.71e-03 -5.85e-03 7.29e-03 1.65e-02  
## 602 1.03e-02 5.30e-04 -4.41e-03 -6.84e-03 7.85e-03 7.79e-03 3.12e-02  
## 603 -2.71e-04 1.28e-02 1.13e-02 5.15e-03 7.39e-03 -1.06e-03 3.12e-02  
## 604 -4.63e-03 3.45e-03 -6.98e-03 -1.64e-02 5.19e-03 -7.77e-03 5.00e-02  
## 605 1.98e-03 -9.90e-04 -3.89e-03 -2.26e-04 2.75e-03 -1.51e-03 -1.35e-02  
## 606 -6.30e-04 9.36e-04 7.59e-04 -3.27e-04 6.04e-05 -3.25e-04 3.31e-03  
## 607 -1.05e-06 8.84e-07 -1.82e-06 5.60e-07 -1.02e-06 3.55e-07 -8.23e-06  
## 608 -4.36e-04 -1.47e-03 -3.95e-03 2.79e-03 7.56e-05 -5.31e-03 -1.16e-02  
## 609 1.04e-02 5.20e-02 -4.78e-02 2.67e-02 2.09e-02 -3.27e-02 -1.29e-01  
## 610 -1.05e-02 -9.79e-04 1.99e-02 1.93e-04 8.43e-03 -2.00e-02 -9.81e-02  
## 611 -9.75e-03 3.37e-02 -2.56e-02 -3.16e-02 2.82e-03 2.91e-02 -1.33e-01  
## 612 2.72e-05 -5.33e-04 -1.58e-03 -5.36e-03 -3.43e-03 5.94e-03 -1.43e-02  
## 613 -6.26e-03 7.63e-03 -4.90e-03 -3.27e-03 -3.75e-03 -8.44e-04 5.16e-02  
## 614 -2.08e-03 2.00e-03 1.70e-03 -1.83e-03 -2.89e-04 -6.13e-05 7.42e-03  
## 615 2.81e-03 -2.91e-03 1.48e-02 1.34e-02 -6.16e-03 4.14e-03 4.59e-02  
## 616 8.25e-03 3.80e-03 -1.25e-02 -1.43e-02 -7.62e-03 2.19e-02 5.78e-02  
## 617 -3.70e-04 -2.67e-03 -2.36e-03 -3.97e-04 -6.57e-03 1.32e-02 3.56e-02  
## 618 5.07e-03 -1.01e-02 -3.00e-03 -5.66e-03 1.46e-03 3.09e-04 2.41e-02  
## 619 1.43e-02 8.59e-03 -9.46e-03 -3.36e-02 1.71e-02 -1.26e-02 7.65e-02  
## 620 -2.98e-02 4.36e-04 -1.13e-02 -3.03e-02 -1.72e-02 1.92e-02 8.91e-02  
## 621 8.20e-03 5.79e-04 -3.94e-03 4.92e-03 3.78e-03 3.50e-03 2.31e-02  
## 622 2.52e-02 7.53e-03 -8.02e-03 6.91e-03 1.55e-02 2.57e-03 4.92e-02  
## 623 9.25e-05 3.89e-03 7.88e-04 1.75e-03 -5.62e-04 1.21e-03 6.51e-03  
## 624 1.20e-02 2.91e-02 -2.15e-02 6.37e-02 5.08e-02 -3.73e-02 -1.10e-01  
## 625 -1.10e-02 -1.45e-02 -5.73e-03 7.42e-03 1.44e-02 -1.01e-02 7.05e-02  
## 626 1.61e-02 -6.69e-03 2.30e-02 6.04e-03 1.71e-02 -1.16e-02 6.52e-02  
## 627 -1.46e-03 -3.96e-04 1.54e-02 -3.30e-04 -3.49e-03 1.03e-02 3.44e-02  
## 628 9.19e-04 3.92e-03 5.64e-03 3.20e-03 -2.46e-06 5.76e-03 1.63e-02  
## 629 2.83e-02 2.05e-02 -4.00e-02 6.10e-03 -2.22e-03 -1.14e-02 -9.55e-02  
## 630 1.06e-02 3.17e-02 3.05e-03 2.49e-02 1.04e-02 5.84e-03 -9.33e-02  
## 631 1.03e-03 -7.95e-03 6.00e-03 -6.10e-03 -2.71e-03 -7.10e-04 2.22e-02  
## 632 4.29e-03 -7.22e-04 -6.72e-03 -1.09e-04 6.86e-03 -3.50e-03 -2.13e-02  
## 633 -7.10e-04 3.08e-03 2.31e-03 3.02e-03 -4.03e-03 4.26e-03 1.30e-02  
## 634 -6.91e-03 -7.19e-04 -5.72e-03 -9.47e-03 -1.97e-03 -2.23e-03 3.35e-02  
## 635 8.00e-03 4.75e-02 5.94e-03 -2.14e-02 1.91e-02 -3.42e-02 -1.08e-01  
## 636 -1.65e-04 2.05e-02 1.39e-02 -1.40e-02 1.63e-02 -2.61e-03 4.60e-02  
## 637 -5.84e-03 -3.32e-03 -5.20e-03 -6.26e-04 2.64e-04 1.08e-03 -2.27e-02  
## 638 7.69e-03 -7.80e-05 1.11e-02 2.67e-02 9.65e-03 -2.15e-02 -1.08e-01  
## 639 1.67e-02 -3.08e-03 5.04e-03 -2.96e-03 -1.10e-02 7.72e-03 -4.42e-02  
## 640 1.62e-04 -1.70e-04 -1.60e-03 2.56e-03 -1.10e-03 4.51e-03 -9.77e-03  
## 641 -2.76e-02 4.15e-02 -3.71e-02 -1.39e-02 7.57e-03 -7.96e-03 -1.27e-01  
## 642 9.43e-03 -3.97e-03 3.76e-03 -5.42e-04 -1.16e-02 1.17e-02 -3.44e-02  
## 643 -1.06e-02 7.54e-03 -4.99e-03 -1.29e-02 5.20e-03 3.03e-03 5.17e-02  
## 644 -3.52e-03 -9.96e-03 -1.05e-02 -3.27e-04 -1.55e-02 4.52e-03 3.15e-02  
## 645 9.23e-03 -6.88e-05 1.53e-03 -3.95e-03 -1.73e-03 6.44e-03 -3.86e-02  
## 646 -5.68e-03 -9.12e-03 1.95e-02 -1.68e-02 1.30e-02 -1.93e-02 -6.54e-02  
## 647 6.42e-03 -2.08e-03 -4.01e-03 3.39e-03 -3.39e-03 -9.07e-04 1.99e-02  
## 648 1.78e-02 -5.55e-03 -1.90e-02 -1.59e-03 -1.13e-02 1.56e-02 -5.10e-02  
## 649 1.56e-02 -1.45e-03 2.53e-02 -1.08e-02 2.02e-02 5.95e-03 6.11e-02  
## 650 -1.33e-02 -8.23e-03 8.83e-03 2.70e-02 -1.81e-02 -2.77e-03 -4.90e-02  
## 651 -1.51e-02 -6.14e-03 9.88e-03 -1.42e-02 -2.02e-02 7.75e-03 -5.04e-02  
## 652 -6.55e-06 -2.74e-04 -8.33e-05 -2.49e-04 -5.45e-05 5.63e-05 -6.69e-04  
## 653 -3.00e-03 -8.94e-03 5.50e-03 5.99e-03 -1.10e-02 2.79e-03 2.51e-02  
## 654 1.19e-02 2.22e-02 -2.19e-02 7.52e-03 5.15e-02 -3.10e-02 -1.08e-01  
## 655 -1.65e-02 -7.58e-03 -7.15e-03 -1.50e-02 2.33e-02 -2.72e-02 8.14e-02  
## 656 2.88e-03 -1.45e-03 3.71e-03 -7.06e-05 5.38e-03 -1.43e-03 -1.28e-02  
## 657 -2.72e-03 -5.98e-04 2.66e-03 -2.90e-03 -2.17e-03 -8.81e-04 9.99e-03  
## 658 4.45e-03 -2.43e-02 -1.34e-02 -1.72e-02 3.26e-02 -4.48e-02 -1.08e-01  
## 659 -1.17e-03 -5.63e-03 2.14e-03 -4.32e-03 -2.46e-03 -1.25e-03 1.05e-02  
## 660 -1.18e-02 -8.34e-03 1.83e-02 -1.61e-02 1.07e-02 -3.30e-02 -8.17e-02  
## 661 3.54e-03 -7.11e-04 1.27e-02 1.08e-02 -2.33e-03 8.39e-03 3.76e-02  
## 662 -2.48e-03 -4.66e-03 4.24e-03 3.26e-03 -1.07e-02 9.09e-03 2.14e-02  
## 663 -3.85e-04 2.81e-04 -2.50e-04 4.30e-04 -6.60e-05 -3.33e-05 1.11e-03  
## 664 9.84e-05 -1.29e-03 -1.71e-03 3.96e-03 -1.51e-03 3.63e-03 -1.11e-02  
## 665 2.25e-02 7.78e-03 -1.44e-02 2.14e-02 2.94e-02 -1.04e-02 7.38e-02  
## 666 -1.48e-02 -7.10e-03 -2.24e-02 -9.04e-05 -2.82e-02 2.19e-05 -4.81e-02  
## 667 6.64e-03 -1.35e-02 -7.30e-03 -1.11e-02 1.04e-03 -4.92e-03 4.44e-02  
## 668 -7.10e-03 -3.58e-03 -2.48e-02 -1.93e-02 5.76e-03 -2.01e-02 -7.38e-02  
## 669 2.20e-04 -1.81e-04 -5.63e-04 3.81e-04 -1.17e-04 3.56e-04 -2.11e-03  
## 670 -1.41e-04 -5.45e-04 -7.41e-04 -6.86e-04 -2.07e-04 -5.79e-04 2.00e-03  
## 671 2.03e-05 -5.41e-04 -4.73e-04 2.83e-04 -1.15e-04 8.47e-04 -2.76e-03  
## 672 -1.01e-02 -8.22e-03 6.52e-03 -1.20e-02 -1.47e-02 4.43e-03 -3.67e-02  
## 673 -3.90e-03 -1.03e-02 -9.50e-03 -7.07e-03 -1.49e-02 1.18e-03 2.88e-02  
## 674 2.92e-02 3.00e-02 8.27e-03 -1.42e-02 2.00e-02 1.46e-02 -1.15e-01  
## 675 7.39e-04 6.53e-03 -2.99e-03 4.46e-03 -1.00e-03 7.45e-03 2.37e-02  
## 676 -4.38e-04 -1.17e-03 1.22e-03 -2.17e-03 -1.05e-03 -1.27e-03 5.63e-03  
## 677 3.10e-02 -6.19e-03 1.39e-02 2.00e-03 1.35e-02 -2.21e-02 -7.68e-02  
## 678 -1.98e-02 1.01e-03 4.39e-02 2.80e-02 3.72e-02 -6.57e-02 1.23e-01  
## 679 1.15e-02 -9.91e-03 1.83e-02 -1.39e-02 9.68e-03 4.53e-03 4.58e-02  
## 680 2.07e-02 -2.38e-03 -2.12e-02 -3.09e-04 -2.60e-02 8.84e-03 -5.93e-02  
## 681 2.12e-04 -2.50e-04 3.23e-04 3.44e-04 2.47e-04 -1.74e-04 -1.49e-03  
## 682 7.95e-03 -5.97e-03 -1.04e-02 -1.06e-02 -9.10e-03 -5.17e-03 4.85e-02  
## 683 -3.73e-03 6.67e-03 -4.67e-03 -4.14e-03 -5.54e-04 4.90e-04 5.77e-02  
## 684 1.92e-02 1.03e-02 2.76e-02 1.84e-02 3.87e-02 -2.68e-03 6.33e-02  
## 685 3.96e-03 -7.71e-04 -1.15e-02 -3.94e-04 -7.63e-03 6.73e-03 4.19e-02  
## 686 -9.16e-04 -1.97e-03 -3.67e-03 -3.84e-03 -2.77e-03 -2.82e-03 1.11e-02  
## 687 -1.26e-03 -6.37e-03 2.10e-02 1.33e-03 2.25e-02 -1.15e-02 -8.89e-02  
## 688 4.12e-03 1.42e-03 6.48e-03 9.05e-03 6.89e-03 -4.30e-03 2.72e-02  
## 689 -1.50e-02 -1.50e-02 2.02e-02 -1.47e-02 6.73e-03 6.56e-03 5.14e-02  
## 690 -3.24e-03 -4.42e-03 -1.18e-02 4.57e-03 -1.66e-02 1.18e-02 2.93e-02  
## 691 -9.76e-03 6.12e-04 -4.78e-03 -6.72e-03 -3.80e-03 -3.18e-03 2.25e-02  
## 692 1.24e-04 4.90e-04 -3.43e-04 3.14e-04 2.99e-05 4.16e-04 -1.94e-03  
## 693 -1.09e-02 -7.74e-03 6.53e-03 1.01e-02 -1.34e-02 1.94e-03 -3.86e-02  
## 694 -1.58e-03 4.02e-03 -9.28e-03 6.72e-03 -9.09e-03 2.80e-03 2.68e-02  
## 695 -3.01e-03 -4.80e-03 -1.20e-02 5.40e-03 -1.72e-02 1.21e-02 3.47e-02  
## 696 9.45e-04 -1.05e-03 1.16e-03 1.32e-03 2.49e-03 -1.26e-03 -6.23e-03  
## 697 -9.72e-03 1.47e-03 2.32e-02 1.55e-04 1.56e-02 -1.22e-02 -8.89e-02  
## 698 1.98e-02 8.66e-03 -4.50e-03 -1.38e-02 7.52e-03 6.66e-03 5.31e-02  
## 699 -4.65e-03 -1.88e-03 5.36e-03 -6.87e-04 5.40e-05 6.45e-05 -1.79e-02  
## 700 2.79e-03 2.06e-03 -1.72e-03 -1.66e-03 -1.08e-03 5.75e-04 8.70e-03  
## 701 2.41e-02 -1.11e-02 2.61e-02 6.53e-03 1.37e-02 4.40e-04 5.88e-02  
## 702 -2.49e-02 -5.89e-03 -7.50e-03 7.74e-03 1.21e-02 4.39e-04 6.26e-02  
## 703 -3.14e-03 -4.85e-03 -1.18e-02 5.06e-03 -1.65e-02 1.15e-02 2.93e-02  
## 704 1.60e-03 1.48e-03 1.23e-02 9.36e-03 -4.19e-03 3.79e-03 4.01e-02  
## 705 -1.70e-02 8.87e-03 1.41e-02 3.27e-02 -2.34e-02 8.33e-03 -8.79e-02  
## 706 -2.58e-03 -3.50e-03 4.40e-03 -6.83e-03 -2.05e-03 2.52e-03 -1.64e-02  
## 707 -1.10e-02 1.84e-02 -3.81e-03 -2.39e-02 4.01e-03 -1.05e-02 7.73e-02  
## 708 1.83e-02 -7.29e-03 -9.26e-03 -7.32e-03 1.54e-02 1.85e-03 5.69e-02  
## 709 -1.54e-02 -1.46e-02 1.60e-02 -5.82e-03 -1.30e-02 -9.76e-03 5.02e-02  
## 710 1.09e-02 2.01e-02 -1.78e-02 -1.38e-02 4.67e-02 -3.92e-02 -9.17e-02  
## 711 2.03e-02 -9.54e-03 -1.04e-02 2.05e-02 2.20e-02 -8.57e-03 6.94e-02  
## 712 -6.01e-05 7.99e-04 -1.37e-03 -2.12e-04 -3.15e-04 -1.11e-03 3.72e-03  
## 713 1.48e-02 -9.19e-03 -1.20e-02 2.00e-02 2.51e-02 -1.68e-02 7.80e-02  
## 714 3.53e-05 -1.78e-04 -8.13e-04 -2.39e-03 -8.48e-04 2.86e-03 -5.77e-03  
## 715 1.89e-02 -1.34e-02 -5.55e-03 -4.36e-03 2.07e-03 6.13e-03 5.08e-02  
## 716 2.74e-04 -2.22e-04 -7.35e-04 4.87e-04 -1.56e-04 4.37e-04 -2.73e-03  
## 717 -2.38e-02 -7.88e-03 -6.14e-03 -2.52e-02 1.00e-02 1.50e-03 6.55e-02  
## 718 -1.51e-02 -1.29e-02 -8.99e-03 -9.54e-03 -1.23e-02 -1.81e-03 6.58e-02  
## 719 1.44e-02 -1.56e-02 -3.74e-03 2.04e-04 -7.39e-04 1.10e-02 4.83e-02  
## 720 -5.94e-04 3.48e-03 1.92e-03 2.46e-03 -4.51e-03 6.30e-03 1.53e-02  
## 721 1.33e-05 -9.96e-04 -1.70e-03 8.27e-04 -2.35e-03 4.61e-03 -1.10e-02  
## 722 1.58e-02 -3.21e-03 5.15e-03 -2.20e-03 -1.30e-02 8.30e-03 -4.35e-02  
## 723 -5.49e-03 -7.43e-03 1.97e-02 1.68e-03 1.54e-02 -2.08e-02 -6.50e-02  
## 724 1.05e-02 5.36e-03 1.68e-03 -6.88e-03 1.11e-03 9.05e-04 -4.81e-02  
## 725 -3.84e-03 -6.24e-03 -1.21e-02 7.18e-03 -1.99e-02 9.39e-03 4.19e-02  
## 726 1.99e-04 7.99e-03 2.04e-03 3.96e-03 -1.83e-03 1.42e-03 1.50e-02  
## 727 3.24e-02 4.78e-03 -1.06e-02 2.92e-03 3.09e-02 -1.13e-02 8.07e-02  
## 728 -2.07e-02 1.38e-02 -3.23e-02 9.08e-03 -1.64e-02 1.59e-02 -9.76e-02  
## 729 6.08e-04 -4.42e-04 4.33e-04 -1.14e-05 3.53e-04 2.46e-05 -2.01e-03  
## 730 -3.31e-02 3.05e-02 1.18e-02 -1.60e-02 -1.83e-02 -2.63e-03 -9.94e-02  
## 731 -2.37e-03 -5.38e-03 4.16e-03 3.58e-03 -9.44e-03 7.19e-03 1.98e-02  
## 732 1.37e-02 -4.39e-03 -8.87e-03 5.20e-03 2.01e-02 -2.24e-03 5.34e-02  
## 733 6.61e-04 5.18e-04 4.95e-04 -3.68e-04 6.91e-04 5.38e-04 2.00e-03  
## 734 -1.91e-02 -1.19e-02 2.76e-02 -2.35e-02 1.30e-02 -5.69e-03 7.32e-02  
## 735 -1.10e-02 -1.62e-02 1.62e-02 -6.96e-03 -3.72e-03 -1.70e-03 5.50e-02  
## 736 -4.41e-03 5.70e-03 2.21e-02 -5.40e-03 1.22e-02 -1.34e-02 5.27e-02  
## 737 1.32e-03 -2.48e-03 -3.75e-03 -9.58e-07 -3.50e-03 -3.54e-03 -1.47e-02  
## 738 1.29e-02 -7.15e-03 -4.45e-03 -1.90e-02 3.00e-03 3.53e-03 5.82e-02  
## 739 1.68e-03 -1.45e-03 1.78e-03 1.89e-03 4.84e-03 -1.96e-03 -9.69e-03  
## 740 1.56e-03 2.39e-03 -2.13e-03 2.88e-03 2.75e-04 -1.03e-03 7.68e-03  
## 741 1.82e-02 2.90e-03 -1.53e-02 2.53e-03 2.85e-02 -1.97e-02 7.76e-02  
## 742 1.48e-02 4.09e-03 -2.29e-02 -2.51e-03 -1.51e-02 2.14e-02 -6.23e-02  
## 743 -1.65e-05 1.94e-04 -5.47e-04 6.33e-04 -1.21e-06 -5.19e-04 1.50e-03  
## 744 2.97e-03 2.96e-03 -1.18e-02 -1.24e-02 -1.15e-02 1.36e-02 4.23e-02  
## 745 1.10e-03 6.10e-03 -1.69e-03 5.17e-04 -2.43e-03 8.32e-03 2.00e-02  
## 746 7.66e-05 7.62e-04 -4.96e-04 -7.88e-04 -5.51e-04 1.53e-03 3.91e-03  
## 747 2.23e-02 8.11e-03 2.99e-02 2.10e-02 3.13e-02 -1.16e-02 8.86e-02  
## 748 9.93e-06 -6.83e-04 -3.40e-04 -1.02e-03 -3.13e-04 7.67e-04 -2.60e-03  
## 749 1.18e-02 -1.80e-03 -2.84e-03 -4.80e-04 3.19e-03 5.76e-03 2.34e-02  
## 750 1.25e-03 -5.30e-03 -7.56e-03 9.92e-03 -3.70e-03 -1.45e-03 3.01e-02  
## 751 2.24e-03 -1.97e-03 2.79e-03 -1.60e-05 2.33e-03 -8.39e-04 -1.15e-02  
## 752 -1.95e-02 -1.06e-02 -1.06e-02 -7.86e-03 -6.20e-03 -9.37e-03 4.77e-02  
## 753 2.32e-02 9.12e-04 2.75e-02 2.24e-03 3.16e-02 -3.12e-02 9.38e-02  
## 754 8.25e-03 2.46e-03 2.33e-03 -4.16e-03 -1.19e-03 1.25e-02 -4.11e-02  
## 755 2.52e-04 -8.28e-04 -1.92e-03 3.60e-03 -2.20e-03 5.80e-03 -1.29e-02  
## 756 -2.40e-03 -5.17e-03 4.31e-03 3.65e-03 -1.04e-02 8.44e-03 2.09e-02  
## 757 2.46e-02 1.94e-03 7.41e-03 2.69e-02 -1.89e-02 9.96e-03 -7.65e-02  
## 758 -2.50e-03 -1.57e-03 1.31e-03 1.26e-03 -1.56e-03 -1.90e-03 -6.88e-03  
## 759 -2.42e-03 -4.69e-03 4.43e-03 3.39e-03 -1.06e-02 9.18e-03 2.19e-02  
## 760 1.25e-02 7.45e-03 -2.81e-02 -4.44e-03 -1.91e-02 7.25e-03 -5.94e-02  
## 761 -1.34e-02 -8.34e-03 9.12e-03 -1.13e-03 -2.04e-02 5.41e-04 -4.78e-02  
## 762 -6.62e-03 -1.43e-03 -5.08e-03 4.68e-03 -1.93e-03 1.90e-04 -2.49e-02  
## 763 3.86e-05 -5.15e-04 -1.51e-03 -5.34e-03 -3.12e-03 5.82e-03 -1.23e-02  
## 764 1.95e-02 1.20e-03 -1.19e-02 1.58e-02 -7.66e-03 1.38e-02 7.22e-02  
## 765 1.46e-02 4.95e-05 -9.31e-03 2.33e-02 1.90e-02 -1.19e-02 6.30e-02  
## 766 -6.44e-04 1.59e-03 1.91e-03 -6.57e-03 -3.45e-03 3.12e-03 1.09e-02  
## 767 1.25e-02 -1.20e-02 -6.50e-03 5.76e-03 1.33e-02 2.39e-03 4.38e-02  
## 768 -1.51e-02 7.79e-03 7.28e-03 8.56e-03 -2.89e-04 -3.56e-03 3.58e-02  
## 769 -2.92e-03 -6.48e-03 -9.24e-03 -8.05e-03 -1.31e-02 6.96e-03 2.36e-02  
## 770 1.06e-02 2.74e-04 3.26e-03 -2.91e-03 -5.95e-03 8.97e-03 -3.67e-02  
## 771 1.02e-02 2.00e-02 -1.83e-02 -1.46e-02 4.58e-02 -3.92e-02 -9.11e-02  
## 772 2.03e-02 1.62e-03 1.09e-02 -1.72e-02 -1.88e-02 2.22e-02 -7.21e-02  
## 773 4.88e-03 -1.70e-02 9.35e-03 -9.83e-03 -1.92e-02 5.59e-03 -6.89e-02  
## 774 2.59e-04 3.60e-03 -1.60e-03 1.46e-04 -1.01e-03 5.25e-03 1.12e-02  
## 775 -2.59e-02 -4.45e-04 1.76e-02 1.21e-02 -2.25e-03 7.44e-03 7.24e-02  
## 776 -9.73e-03 -8.68e-03 6.05e-03 -1.53e-03 -1.62e-02 1.17e-02 -4.48e-02  
## 777 -3.56e-03 -1.89e-03 -3.01e-03 -3.10e-05 1.29e-03 1.69e-03 1.90e-02  
## 778 -6.26e-03 -4.86e-03 -2.49e-02 3.14e-03 8.42e-03 -2.20e-02 -7.13e-02  
## 779 2.10e-03 -1.44e-03 2.02e-03 -5.53e-05 1.35e-03 -5.42e-04 -1.04e-02  
## 780 3.44e-03 -9.50e-04 1.16e-02 9.96e-03 -2.27e-03 1.01e-02 4.14e-02  
## 781 4.04e-04 -5.79e-03 -6.25e-03 -3.70e-03 -3.69e-03 -1.04e-03 2.41e-02  
## 782 -8.58e-03 4.20e-04 2.03e-02 3.66e-04 1.01e-02 -1.06e-02 -7.61e-02  
## 783 -1.63e-04 2.03e-04 2.45e-04 2.35e-04 -1.98e-04 2.77e-04 -1.24e-03  
## 784 1.00e-02 -1.13e-02 8.31e-03 -1.55e-02 2.57e-03 6.05e-03 -8.58e-02  
## 785 -2.22e-03 -2.59e-03 -2.77e-03 2.62e-03 -1.71e-03 7.13e-08 -1.36e-02  
## 786 1.77e-03 -9.50e-03 -5.83e-03 -8.63e-03 -5.60e-03 -2.04e-03 2.95e-02  
## 787 -1.32e-02 4.39e-03 1.04e-02 3.15e-03 -5.49e-03 -7.58e-03 4.02e-02  
## 788 -6.23e-03 -2.74e-03 -6.11e-03 5.73e-03 2.79e-04 2.80e-03 -2.79e-02  
## 789 1.43e-04 -1.28e-04 -3.21e-04 2.51e-05 -2.01e-04 1.95e-04 -1.40e-03  
## 790 -2.00e-03 -7.25e-04 -1.05e-03 3.25e-05 -1.30e-03 -3.03e-04 5.24e-03  
## 791 2.58e-04 1.01e-02 -7.02e-03 3.19e-03 -3.46e-03 5.36e-03 1.77e-02  
## 792 -6.07e-04 -5.51e-04 -3.26e-04 1.99e-04 -1.05e-04 1.26e-04 -1.96e-03  
## 793 -1.97e-02 -1.65e-03 2.39e-02 -1.68e-02 -9.78e-03 1.15e-02 7.46e-02  
## 794 -2.85e-02 -3.37e-03 -1.12e-02 1.30e-02 -1.01e-02 -8.94e-03 6.39e-02  
## 795 1.58e-02 9.91e-03 1.63e-02 -5.46e-03 2.12e-02 8.94e-04 4.71e-02  
## 796 -3.27e-03 -1.03e-02 -8.83e-03 -1.30e-02 -1.39e-02 3.05e-03 3.02e-02  
## 797 -2.06e-03 -5.27e-03 3.56e-03 -2.20e-03 -9.24e-03 8.53e-03 2.06e-02  
## 798 4.63e-03 -9.34e-04 1.08e-02 -1.95e-02 6.89e-03 -3.14e-02 -9.37e-02  
## 799 1.32e-02 1.68e-02 -4.54e-03 9.77e-04 8.34e-03 1.15e-02 3.88e-02  
## 800 1.05e-02 4.21e-03 3.62e-03 -3.37e-03 -8.96e-03 1.70e-02 -4.83e-02  
## 801 -1.58e-04 3.48e-03 -4.09e-03 3.45e-03 -1.19e-03 -1.31e-03 1.00e-02  
## 802 2.85e-03 3.61e-03 -1.97e-03 -4.86e-04 -3.57e-04 -6.67e-05 9.85e-03  
## 803 -1.85e-02 -5.14e-03 5.75e-03 -1.53e-03 -1.71e-02 1.45e-02 -5.17e-02  
## 804 -1.35e-03 2.10e-03 -1.73e-03 -1.86e-03 -2.24e-03 1.86e-03 1.03e-02  
## 805 3.85e-03 -7.32e-03 7.56e-03 -5.31e-03 -2.32e-03 5.12e-05 2.79e-02  
## 806 2.71e-04 1.34e-03 -1.13e-03 7.45e-05 -1.94e-04 2.52e-03 6.44e-03  
## 807 1.27e-02 1.30e-02 2.88e-03 -1.02e-02 -5.05e-04 6.11e-05 -6.27e-02  
## 808 -1.26e-02 -9.32e-03 9.24e-03 -6.43e-05 -1.99e-02 2.04e-04 -3.88e-02  
## 809 7.39e-03 -4.30e-03 8.59e-03 2.79e-02 1.08e-02 -2.34e-02 -8.96e-02  
## 810 1.43e-03 -3.52e-02 2.03e-02 1.05e-03 -5.29e-03 -5.36e-02 -1.46e-01  
## 811 1.75e-05 1.71e-03 8.06e-04 6.24e-04 -2.86e-04 -7.01e-04 4.92e-03  
## 812 3.61e-03 2.17e-03 4.81e-03 -7.71e-03 4.78e-03 4.18e-04 2.38e-02  
## 813 -3.33e-03 -5.20e-03 5.94e-03 -1.60e-02 -1.51e-02 9.94e-03 3.28e-02  
## 814 3.10e-02 -3.70e-03 -7.20e-03 2.64e-02 1.57e-02 -4.57e-03 7.06e-02  
## 815 1.43e-02 -3.54e-03 6.69e-03 -1.26e-02 -1.68e-02 1.34e-02 -4.67e-02  
## 816 -9.35e-04 -2.56e-03 -2.77e-03 -6.30e-03 1.24e-03 3.08e-03 2.25e-02  
## 817 9.65e-03 1.32e-02 4.19e-03 -7.40e-03 -7.97e-03 2.87e-02 -6.73e-02  
## 818 -5.49e-05 -4.37e-05 3.17e-05 -3.81e-06 -3.93e-05 -2.12e-05 -1.57e-04  
## 819 -1.08e-03 -1.96e-02 -2.37e-03 8.10e-03 -6.32e-03 1.34e-02 4.32e-02  
## 820 -7.39e-04 1.04e-03 -1.08e-03 -2.92e-04 -5.07e-04 -6.42e-05 3.72e-03  
## 821 -4.58e-03 6.70e-03 -5.05e-03 8.26e-03 1.11e-05 2.56e-03 4.16e-02  
## 822 1.25e-02 -7.27e-03 -1.06e-02 -1.11e-02 -1.22e-02 -5.18e-03 5.38e-02  
## 823 -4.03e-05 6.50e-04 -1.31e-03 -1.29e-04 -1.07e-04 -1.37e-03 3.73e-03  
## 824 -2.74e-02 6.75e-03 8.41e-03 1.06e-02 -1.66e-02 1.71e-02 -7.45e-02  
## 825 7.62e-03 -3.06e-03 8.58e-04 1.28e-02 -2.71e-03 8.77e-03 -3.39e-02  
## 826 -2.69e-03 -9.13e-03 4.99e-03 5.68e-03 -9.95e-03 3.43e-03 2.61e-02  
## 827 -6.46e-02 3.98e-03 -4.35e-02 -2.23e-02 -3.56e-02 -2.07e-02 -1.35e-01  
## 828 1.38e-02 -1.61e-02 -7.83e-03 4.33e-03 -1.76e-03 -5.12e-03 4.89e-02  
## 829 1.30e-02 6.06e-03 -4.45e-02 -2.00e-02 -9.73e-03 -9.34e-03 -1.17e-01  
## 830 -1.45e-05 6.99e-04 3.04e-04 -3.49e-04 -1.40e-04 -1.65e-04 1.96e-03  
## 831 9.84e-03 1.02e-02 -6.33e-03 -1.40e-04 3.03e-03 1.44e-03 -2.69e-02  
## 832 2.29e-02 -1.18e-02 -5.22e-03 8.33e-03 6.42e-03 -4.45e-04 5.78e-02  
## 833 -1.54e-02 -6.55e-03 3.96e-03 -1.09e-03 -9.50e-03 4.97e-03 -4.17e-02  
## 834 -1.26e-02 -1.40e-02 -3.81e-03 7.14e-03 -3.87e-03 7.15e-03 4.49e-02  
## 835 5.00e-03 4.48e-03 -3.32e-03 3.81e-04 4.82e-04 1.89e-04 -1.49e-02  
## 836 -5.91e-03 -5.59e-03 -2.39e-02 -1.73e-02 8.32e-03 -2.16e-02 -7.32e-02  
## 837 -8.30e-03 -1.25e-02 -5.15e-03 -2.98e-03 -8.56e-03 -4.56e-03 2.74e-02  
## 838 4.51e-06 -9.87e-04 -4.54e-04 4.96e-04 -1.74e-04 4.97e-04 -2.71e-03  
## 839 3.62e-03 -1.02e-02 5.61e-03 -1.61e-02 5.17e-03 -1.99e-02 -8.10e-02  
## 840 5.89e-04 5.16e-03 -2.56e-03 2.59e-04 -4.96e-04 7.80e-03 1.76e-02  
## 841 5.94e-03 -1.15e-02 -1.75e-02 6.51e-02 3.46e-02 -3.68e-02 -1.18e-01  
## 842 5.57e-03 -2.07e-03 -1.12e-02 -2.11e-02 -4.97e-03 1.11e-02 5.31e-02  
## 843 9.25e-03 -4.00e-03 3.68e-03 -5.62e-04 -1.18e-02 1.17e-02 -3.42e-02  
## 844 -4.37e-04 1.04e-03 1.68e-03 2.76e-03 -2.30e-03 2.54e-03 1.01e-02  
## 845 2.72e-03 -2.11e-03 3.43e-03 3.41e-03 3.57e-03 -3.08e-04 -1.37e-02  
## 846 3.98e-03 3.88e-03 4.24e-03 -4.53e-03 2.38e-03 3.88e-03 2.51e-02  
## 847 2.18e-03 -1.83e-03 3.12e-03 -2.71e-04 5.47e-03 -2.65e-03 -1.22e-02  
## 848 4.09e-03 -6.07e-04 -6.59e-03 -3.32e-04 6.49e-03 -3.13e-03 -2.06e-02  
## 849 -2.00e-04 -7.10e-04 6.48e-04 8.91e-04 4.06e-04 -2.06e-03 -3.91e-03  
## 850 -1.18e-03 1.35e-03 -1.12e-03 1.90e-03 -7.88e-04 -2.08e-04 5.50e-03  
## 851 -3.69e-03 -6.03e-03 6.17e-03 4.86e-03 -1.59e-02 8.84e-03 3.21e-02  
## 852 8.37e-03 -6.60e-03 -1.04e-02 5.90e-04 -8.47e-03 -5.11e-03 4.68e-02  
## 853 5.12e-05 -6.60e-04 -1.84e-03 3.56e-04 -2.41e-03 5.48e-03 -1.18e-02  
## 854 1.30e-03 1.18e-03 1.08e-02 -2.00e-02 1.78e-03 -4.02e-02 -1.15e-01  
## 855 3.95e-03 -2.44e-03 -5.49e-03 1.23e-04 4.16e-03 -3.03e-03 -1.92e-02  
## 856 -3.79e-03 -5.76e-03 -2.64e-02 2.79e-03 8.32e-03 -8.95e-03 -8.14e-02  
## 857 1.03e-03 -4.09e-04 1.01e-03 7.09e-04 8.05e-04 4.23e-04 3.33e-03  
## 858 1.08e-03 -4.31e-04 2.07e-03 -1.82e-04 -5.27e-05 1.44e-03 -8.65e-03  
## 859 -5.23e-04 1.05e-04 1.39e-03 -2.08e-03 -1.59e-03 4.50e-04 6.16e-03  
## 860 -1.43e-03 2.70e-03 2.69e-03 -2.25e-03 2.47e-03 2.15e-03 1.06e-02  
## 861 -1.37e-02 -2.94e-03 7.97e-03 -5.40e-03 -1.43e-02 4.55e-03 -6.52e-02  
## 862 1.11e-02 -3.58e-03 3.30e-03 -1.53e-03 -1.23e-02 1.78e-02 -4.33e-02  
## 863 1.10e-02 3.03e-03 3.04e-03 7.93e-03 -5.13e-03 5.88e-03 -4.13e-02  
## 864 -1.96e-02 1.93e-03 1.19e-02 -1.83e-02 -2.66e-02 1.75e-02 -7.59e-02  
## 865 6.22e-03 4.30e-03 -3.33e-03 -3.55e-03 3.34e-03 -2.76e-03 2.00e-02  
## 866 -3.06e-03 -5.60e-03 -1.13e-02 5.29e-03 -1.53e-02 9.88e-03 2.77e-02  
## 867 2.20e-02 -7.44e-03 -3.94e-02 -1.99e-02 -2.67e-02 -2.62e-02 -1.11e-01  
## 868 2.24e-04 1.86e-02 -1.10e-02 4.59e-03 -7.49e-03 8.74e-03 3.40e-02  
## 869 9.36e-04 3.22e-04 -2.93e-04 -3.12e-04 1.06e-04 5.28e-04 1.74e-03  
## 870 -2.08e-03 -3.92e-04 -3.79e-03 -1.50e-03 1.26e-03 5.69e-03 2.84e-02  
## 871 2.25e-04 -4.15e-04 -1.97e-03 7.45e-04 -3.38e-03 6.78e-03 -1.57e-02  
## 872 2.93e-02 4.40e-02 1.05e-02 -1.92e-02 1.08e-02 1.83e-02 -1.26e-01  
## 873 -8.33e-05 1.92e-02 1.41e-02 -1.24e-02 9.40e-03 8.20e-03 4.71e-02  
## 874 1.88e-02 5.17e-03 -1.19e-02 -1.75e-02 -1.44e-02 2.20e-02 7.48e-02  
## 875 1.24e-02 2.18e-02 -2.87e-02 -5.71e-03 -2.65e-02 3.62e-02 -8.91e-02  
## 876 -1.70e-03 -2.40e-03 2.73e-03 -2.86e-03 3.02e-04 -1.44e-03 1.19e-02  
## 877 -1.41e-03 1.60e-03 -1.68e-03 -1.51e-03 3.95e-04 3.87e-04 -7.49e-03  
## 878 1.05e-03 -7.04e-03 -7.03e-03 -1.41e-02 -9.97e-03 -1.84e-03 3.97e-02  
## 879 1.44e-02 1.39e-02 8.83e-03 -4.99e-03 -1.95e-02 4.72e-02 -8.54e-02  
## 880 -1.06e-03 8.58e-04 2.71e-03 -3.44e-03 -4.16e-03 1.18e-03 1.42e-02  
## 881 1.89e-02 9.15e-04 -2.22e-02 -2.00e-03 -2.26e-02 1.41e-02 -5.99e-02  
## 882 2.16e-04 -3.23e-03 -2.44e-03 4.32e-03 -1.66e-03 6.86e-03 1.89e-02  
## 883 2.61e-03 -1.21e-03 -3.53e-03 -6.48e-04 2.78e-03 -1.80e-03 1.46e-02  
## 884 -3.29e-03 -4.44e-03 -1.17e-02 4.49e-03 -1.66e-02 1.17e-02 2.91e-02  
## 885 3.67e-02 6.56e-03 -9.22e-03 4.19e-03 1.79e-02 -1.83e-02 9.55e-02  
## 886 -1.13e-02 1.87e-02 -6.41e-03 -2.31e-02 4.44e-03 -2.25e-02 8.18e-02  
## 887 -5.27e-03 8.40e-03 2.04e-02 -5.98e-03 1.98e-02 2.96e-03 5.24e-02  
## 888 -5.10e-02 5.50e-02 1.34e-02 -2.41e-02 4.06e-03 -1.52e-02 -1.27e-01  
## 889 1.11e-02 -1.46e-02 1.17e-02 4.59e-03 1.21e-02 -6.45e-03 4.41e-02  
## 890 1.26e-02 3.36e-02 5.45e-03 2.59e-02 9.20e-03 -3.05e-03 -8.38e-02  
## 891 2.10e-02 -5.76e-03 -7.43e-03 -7.74e-03 8.16e-03 1.01e-03 6.97e-02  
## 892 -1.32e-02 -7.50e-03 -2.41e-02 4.47e-03 6.55e-03 -3.94e-02 -8.96e-02  
## 893 1.10e-02 -3.36e-04 -4.03e-03 2.43e-04 8.19e-03 5.19e-03 3.09e-02  
## 894 -2.46e-02 -9.72e-03 -7.49e-03 -7.17e-03 8.36e-03 -1.37e-02 6.37e-02  
## 895 2.27e-05 1.16e-04 -7.69e-05 -1.14e-04 -5.54e-05 2.33e-04 4.88e-04  
## 896 2.22e-04 1.66e-02 1.31e-02 6.16e-03 6.17e-03 6.70e-03 3.59e-02  
## 897 1.59e-02 1.24e-02 7.92e-03 2.73e-02 -1.64e-02 2.64e-02 -7.98e-02  
## 898 -1.43e-02 -1.27e-02 -4.75e-03 -2.55e-03 -7.96e-04 4.26e-03 4.37e-02  
## 899 -2.47e-03 -4.99e-03 4.27e-03 3.53e-03 -1.07e-02 8.82e-03 2.12e-02  
## 900 9.42e-03 3.27e-03 -2.15e-02 8.80e-03 -1.03e-02 1.75e-02 -5.00e-02  
## 901 1.65e-02 9.47e-03 -2.73e-02 -3.38e-03 -2.17e-02 1.70e-02 -7.38e-02  
## 902 -1.64e-03 -8.25e-06 -3.61e-03 -1.07e-03 2.82e-04 5.26e-03 2.61e-02  
## 903 2.84e-03 -2.44e-03 -3.78e-03 2.52e-04 1.38e-03 -7.72e-04 -1.51e-02  
## 904 6.29e-03 -1.34e-03 1.67e-03 -2.19e-03 -3.31e-03 1.26e-02 -3.27e-02  
## 905 1.31e-02 3.35e-03 -1.18e-02 -7.33e-04 -1.27e-02 6.68e-03 5.66e-02  
## 906 -1.55e-02 7.45e-03 -7.21e-03 -1.32e-02 -4.00e-03 -2.58e-03 3.71e-02  
## 907 -1.96e-03 -5.99e-03 3.26e-03 3.27e-03 -6.99e-03 5.65e-03 1.89e-02  
## 908 9.62e-04 3.86e-03 -1.57e-03 3.11e-03 -4.34e-04 6.03e-03 1.36e-02  
## 909 -1.09e-02 -7.62e-03 7.61e-03 -2.29e-03 -1.37e-02 6.57e-03 -5.60e-02  
## 910 2.70e-02 1.86e-03 3.83e-02 -1.38e-02 1.46e-02 -1.89e-02 9.26e-02  
## 911 -1.95e-04 -2.42e-03 -2.16e-03 -4.00e-03 -2.41e-03 9.01e-03 1.86e-02  
## 912 -6.71e-04 2.06e-03 1.99e-03 -4.06e-03 -3.82e-03 3.76e-03 1.07e-02  
## 913 1.13e-04 -1.32e-04 1.94e-03 1.26e-03 -1.33e-04 2.55e-03 -5.74e-03  
## 914 -8.29e-03 -8.81e-03 4.97e-03 -1.26e-03 -7.68e-03 2.92e-03 -3.98e-02  
## 915 1.35e-02 -2.53e-03 -9.15e-03 -2.43e-02 1.52e-02 -1.53e-03 6.91e-02  
## 916 8.01e-04 -6.27e-04 1.41e-03 1.36e-03 2.40e-04 8.71e-04 -6.82e-03  
## 917 2.12e-02 -5.42e-03 -9.63e-03 7.81e-03 1.52e-02 -1.40e-03 6.18e-02  
## 918 -6.10e-03 1.32e-02 -8.27e-03 2.14e-02 1.93e-02 -2.32e-02 6.66e-02  
## 919 -4.10e-05 -1.67e-04 1.09e-04 -1.61e-04 -6.25e-05 -1.94e-04 5.50e-04  
## 920 -2.14e-03 -6.28e-03 3.84e-03 3.88e-03 -7.45e-03 4.42e-03 1.72e-02  
## 921 1.90e-02 4.00e-03 -1.06e-02 6.04e-03 2.18e-02 -2.38e-03 6.61e-02  
## 922 -4.88e-03 -1.49e-03 -2.49e-03 -8.36e-05 -5.29e-03 -5.07e-04 1.56e-02  
## 923 1.17e-02 -3.21e-03 2.14e-02 4.54e-03 2.05e-02 -8.47e-03 6.39e-02  
## 924 -5.14e-03 -5.57e-03 3.01e-03 -3.75e-03 -1.49e-03 -2.69e-03 1.29e-02  
## 925 -7.76e-03 -8.88e-03 4.43e-03 -1.92e-03 -9.00e-03 9.57e-03 -4.41e-02  
## 926 -1.75e-02 -8.97e-04 1.00e-02 -4.66e-03 -2.33e-02 1.60e-02 -6.44e-02  
## 927 -1.23e-04 4.26e-03 -1.75e-03 3.14e-05 6.61e-04 5.54e-03 1.50e-02  
## 928 -1.03e-02 1.00e-02 1.74e-02 6.15e-03 2.45e-02 -1.61e-03 5.57e-02  
## 929 1.30e-02 -6.20e-04 2.28e-02 -2.48e-02 2.25e-02 -3.14e-03 5.80e-02  
## 930 9.65e-03 1.59e-02 8.01e-03 -9.03e-03 1.53e-02 -1.02e-05 3.23e-02  
## 931 2.60e-04 -3.50e-05 -2.02e-03 8.87e-05 -3.11e-03 7.88e-03 -1.45e-02  
## 932 1.35e-02 -5.65e-03 2.82e-03 -1.61e-03 -5.80e-03 6.41e-03 -3.38e-02  
## 933 6.41e-03 9.69e-03 -1.04e-02 8.84e-03 1.66e-03 4.85e-03 3.95e-02  
## 934 3.45e-02 1.52e-02 -7.27e-03 5.17e-03 1.36e-02 -1.91e-02 1.05e-01  
## 935 -1.10e-02 -3.86e-03 1.03e-02 -2.76e-03 -1.76e-02 1.11e-02 -5.47e-02  
## 936 -4.65e-04 -2.74e-03 -2.04e-03 -1.15e-04 -3.54e-03 6.94e-03 1.97e-02  
## 937 -2.05e-03 -6.66e-03 3.73e-03 4.11e-03 -6.93e-03 3.59e-03 1.64e-02  
## 938 -2.95e-04 -6.48e-05 9.85e-04 -3.06e-03 -1.13e-03 9.02e-04 5.91e-03  
## 939 5.39e-03 -2.75e-03 1.25e-02 1.07e-05 9.41e-04 8.32e-03 4.99e-02  
## 940 -2.34e-02 -3.85e-03 -8.30e-03 -1.11e-02 1.63e-02 2.39e-03 6.01e-02  
## 941 1.51e-03 -6.90e-04 -3.80e-03 2.83e-03 -3.54e-04 1.43e-03 -1.44e-02  
## 942 -7.67e-03 -1.61e-02 -3.01e-03 -1.12e-02 -4.86e-03 6.12e-03 4.15e-02  
## 943 -1.25e-02 -5.98e-03 -2.25e-02 2.62e-02 -1.94e-02 2.39e-03 -5.45e-02  
## 944 -2.77e-03 -6.15e-03 -1.07e-02 4.59e-03 -1.32e-02 9.26e-03 2.79e-02  
## 945 3.50e-02 -1.14e-02 -6.28e-03 2.88e-02 8.35e-03 -4.69e-03 8.94e-02  
## 946 8.88e-03 9.59e-03 2.66e-03 -7.61e-03 3.33e-03 4.63e-03 -5.23e-02  
## 947 -1.72e-05 -1.39e-03 -5.07e-04 1.81e-03 3.56e-05 -6.52e-05 -3.71e-03  
## 948 -4.87e-03 -8.46e-03 -2.46e-02 -1.67e-02 1.33e-02 -1.97e-02 -8.33e-02  
## 949 1.48e-02 4.42e-03 2.56e-02 2.10e-03 3.16e-02 -1.05e-02 6.17e-02  
## 950 1.49e-03 -6.15e-03 5.02e-03 5.97e-03 1.46e-06 -1.15e-03 2.00e-02  
## 951 2.32e-03 -6.72e-03 5.08e-03 9.94e-04 -1.70e-03 -2.34e-03 2.21e-02  
## 952 -1.75e-02 -4.32e-03 -5.36e-03 7.17e-03 1.03e-02 -9.88e-03 6.73e-02  
## 953 -6.00e-03 -4.51e-03 -2.53e-02 2.40e-02 1.25e-02 -2.44e-02 -8.85e-02  
## 954 1.05e-04 1.18e-04 -1.91e-03 2.73e-03 -1.24e-03 5.07e-03 -1.13e-02  
## 955 3.64e-03 -3.02e-03 9.29e-03 -2.71e-04 -2.27e-03 -7.46e-04 3.83e-02  
## 956 -1.32e-02 -1.05e-02 8.11e-03 -9.79e-03 -5.93e-03 -8.67e-03 3.23e-02  
## 957 2.37e-02 -9.43e-03 -6.06e-03 6.99e-03 1.56e-02 -3.04e-03 6.00e-02  
## 958 5.15e-03 2.42e-04 1.38e-02 -2.32e-02 -7.29e-03 1.44e-02 6.48e-02  
## 959 -9.76e-04 3.35e-03 -8.17e-03 4.62e-03 -6.10e-03 3.66e-03 1.69e-02  
## 960 8.45e-03 -2.78e-03 1.62e-02 -2.28e-02 -1.19e-02 1.50e-03 6.54e-02  
## 961 2.98e-04 -2.02e-04 -2.16e-04 2.12e-04 1.40e-04 2.50e-05 -1.05e-03  
## 962 -5.68e-03 -9.12e-03 1.95e-02 -1.68e-02 1.30e-02 -1.93e-02 -6.54e-02  
## 963 1.49e-02 8.39e-03 -2.63e-02 1.22e-02 -1.94e-02 2.76e-02 -8.40e-02  
## 964 1.22e-02 2.80e-02 -1.94e-02 9.89e-03 4.63e-02 -3.21e-02 -8.93e-02  
## 965 -2.09e-03 -5.42e-03 3.51e-03 2.98e-03 -8.03e-03 7.45e-03 2.11e-02  
## 966 -1.16e-02 -2.75e-03 -6.90e-03 -1.50e-04 5.01e-04 -8.73e-04 -2.89e-02  
## 967 7.18e-03 -3.21e-03 1.92e-03 -1.34e-03 -7.69e-03 1.14e-02 -2.76e-02  
## 968 1.00e-02 -2.63e-03 -1.96e-02 -5.60e-04 -1.82e-02 1.36e-02 -4.36e-02  
## 969 1.50e-02 -1.26e-02 -4.04e-03 -1.24e-02 -1.63e-03 3.68e-03 4.48e-02  
## 970 -4.14e-03 -2.52e-03 -2.84e-03 2.85e-03 2.92e-06 3.66e-04 -1.19e-02  
## 971 -1.05e-02 2.03e-02 1.50e-02 -1.39e-02 3.69e-03 1.11e-02 -1.12e-01  
## 972 -2.11e-04 2.71e-04 -2.10e-04 -2.48e-05 -1.17e-04 8.30e-05 1.09e-03  
## 973 -4.61e-03 -2.80e-02 2.37e-02 -3.09e-02 -1.59e-04 -4.65e-02 -1.37e-01  
## 974 -1.27e-02 -9.35e-03 9.11e-03 -9.83e-05 -2.02e-02 3.71e-04 -3.88e-02  
## 975 1.81e-02 3.96e-03 2.90e-02 3.38e-03 2.79e-02 -1.70e-03 6.16e-02  
## 976 5.99e-03 -5.97e-03 6.07e-03 -2.04e-02 1.52e-02 -2.24e-02 -8.67e-02  
## 977 1.04e-03 5.27e-05 -2.43e-03 -2.77e-03 -3.53e-05 2.66e-05 8.19e-03  
## 978 -2.62e-03 -7.56e-03 -7.33e-03 -1.10e-02 -1.04e-02 3.62e-03 2.13e-02  
## 979 -1.55e-05 -9.98e-04 -3.63e-04 -1.14e-03 -2.85e-04 4.08e-04 -2.86e-03  
## 980 1.71e-03 2.38e-03 -5.29e-03 2.38e-03 -4.51e-04 3.69e-04 1.69e-02  
## 981 1.40e-02 -5.67e-03 4.06e-03 -1.12e-03 -1.14e-02 9.26e-03 -3.42e-02  
## 982 3.16e-04 3.97e-04 -2.02e-03 2.91e-03 -1.31e-03 6.14e-03 -1.27e-02  
## 983 -1.56e-02 3.48e-03 4.96e-03 2.28e-02 -6.00e-03 -4.08e-04 -6.83e-02  
## 984 2.38e-03 -2.09e-03 1.15e-02 -1.81e-02 -5.59e-03 9.64e-03 3.64e-02  
## 985 -2.42e-03 -4.37e-03 4.00e-03 -1.33e-02 -1.09e-02 9.10e-03 2.27e-02  
## 986 -1.37e-03 -5.84e-03 2.03e-03 2.87e-03 -2.80e-03 8.99e-05 1.16e-02  
## 987 -1.37e-04 -2.74e-04 3.51e-04 -4.61e-04 -2.72e-04 -7.76e-05 1.71e-03  
## 988 4.27e-03 4.11e-03 2.63e-03 -2.57e-03 4.78e-03 1.68e-03 1.20e-02  
## 989 4.33e-05 -4.26e-04 -4.37e-04 1.73e-04 -5.24e-05 8.66e-04 -2.47e-03  
## 990 1.82e-05 4.36e-03 1.21e-03 -2.03e-03 -1.43e-03 1.20e-03 9.33e-03  
## 991 1.42e-04 8.89e-03 1.88e-03 -4.06e-03 -3.06e-03 3.94e-03 1.72e-02  
## 992 5.13e-05 4.48e-03 8.25e-04 -2.17e-03 -1.21e-03 2.19e-03 7.31e-03  
## 993 -2.41e-02 2.45e-02 -3.76e-02 9.59e-03 -2.82e-02 9.59e-03 -9.85e-02  
## 994 -2.15e-02 8.95e-03 1.10e-02 9.73e-03 -2.39e-02 -9.82e-03 -6.64e-02  
## 995 6.97e-03 -3.59e-03 1.10e-03 -1.33e-03 -3.20e-03 8.46e-03 -2.68e-02  
## 996 1.09e-04 -1.39e-04 -2.30e-03 3.58e-03 -3.00e-03 7.46e-03 -1.55e-02  
## 997 -2.08e-02 -7.36e-03 1.92e-02 -6.43e-04 -6.98e-03 -9.04e-03 5.83e-02  
## 998 7.71e-03 1.51e-04 4.39e-03 -2.34e-03 -1.18e-02 1.58e-02 -4.09e-02  
## 999 -1.41e-02 -2.70e-04 5.80e-03 -6.84e-03 -1.12e-02 7.71e-04 -5.19e-02  
## 1000 1.82e-02 7.52e-03 -1.40e-02 1.95e-02 3.07e-02 -2.94e-04 6.71e-02  
## 1001 9.23e-06 3.94e-04 1.31e-04 3.40e-04 3.65e-05 -6.98e-05 9.05e-04  
## 1002 -1.92e-03 -6.90e-03 3.30e-03 3.97e-03 -5.25e-03 1.33e-03 1.45e-02  
## 1003 -5.60e-03 1.11e-02 -2.79e-03 -2.26e-03 -5.44e-04 1.53e-02 5.81e-02  
## 1004 2.02e-02 6.82e-03 6.52e-03 -5.70e-03 -1.47e-02 1.19e-02 -6.11e-02  
## 1005 -1.46e-02 -6.91e-03 -2.25e-02 -5.02e-05 -2.78e-02 1.59e-04 -4.80e-02  
## 1006 1.58e-02 1.78e-02 7.60e-03 8.56e-03 -5.28e-03 5.80e-03 -7.36e-02  
## 1007 -1.43e-03 3.48e-03 -8.72e-03 5.11e-04 -8.99e-03 2.70e-03 2.57e-02  
## 1008 1.71e-03 1.40e-03 -1.32e-02 1.05e-02 -6.93e-03 5.02e-03 4.21e-02  
## 1009 1.59e-03 -5.50e-04 -2.37e-03 -4.23e-03 -1.81e-03 2.11e-03 -1.11e-02  
## 1010 -1.64e-02 -6.91e-03 -6.57e-03 -3.45e-02 2.25e-02 -2.58e-02 8.76e-02  
## 1011 1.67e-03 2.48e-03 1.32e-02 -1.12e-03 -5.37e-03 5.27e-03 4.09e-02  
## 1012 4.79e-02 2.35e-02 -2.74e-02 -4.36e-03 1.47e-02 2.44e-03 -1.08e-01  
## 1013 4.72e-02 -3.10e-02 -2.61e-02 2.17e-02 3.98e-03 -1.65e-02 -1.10e-01  
## 1014 4.28e-03 -1.87e-03 3.60e-03 -6.53e-03 2.29e-03 7.61e-04 -1.44e-02  
## 1015 -5.13e-04 -1.90e-03 -1.97e-03 -1.74e-03 -1.12e-03 -2.51e-03 6.87e-03  
## 1016 -2.50e-02 -2.57e-03 -1.22e-02 -1.00e-03 -8.23e-03 9.94e-03 6.77e-02  
## 1017 -2.65e-03 -8.64e-03 -8.34e-03 5.95e-03 -9.27e-03 1.64e-03 2.09e-02  
## 1018 1.04e-03 -5.73e-03 3.93e-03 -1.74e-03 -7.00e-05 5.43e-04 1.51e-02  
## 1019 1.48e-03 8.90e-04 2.42e-03 3.87e-03 1.40e-03 -1.02e-03 1.19e-02  
## 1020 3.00e-02 1.31e-02 -6.95e-03 3.33e-03 2.06e-02 -2.37e-02 9.71e-02  
## 1021 -1.52e-02 -1.39e-02 -5.64e-03 1.05e-02 5.82e-03 4.75e-03 6.82e-02  
## 1022 1.56e-02 -7.17e-03 -8.52e-03 2.03e-02 2.04e-02 3.59e-03 5.19e-02  
## 1023 8.27e-05 4.25e-03 -1.89e-03 -3.19e-03 -9.69e-05 3.19e-03 1.45e-02  
## 1024 6.13e-03 -1.55e-03 1.62e-03 -2.05e-03 -3.45e-03 1.26e-02 -3.20e-02  
## 1025 1.71e-02 2.01e-03 1.19e-02 -2.48e-03 6.76e-03 4.19e-03 3.63e-02  
## 1026 -2.43e-02 7.13e-03 6.74e-03 -6.35e-03 -1.27e-02 3.79e-03 -5.81e-02  
## 1027 -2.08e-02 4.27e-03 9.33e-03 -1.71e-02 -1.90e-02 2.27e-02 -8.55e-02  
## 1028 1.16e-02 -1.21e-02 -5.64e-03 -1.23e-02 1.11e-02 8.19e-03 4.36e-02  
## 1029 -1.39e-02 -1.47e-02 1.31e-02 -1.41e-02 -1.16e-02 -2.62e-03 4.48e-02  
## 1030 8.55e-03 -7.95e-04 3.38e-03 -2.24e-03 -4.88e-03 1.31e-02 -4.24e-02  
## 1031 1.21e-04 -5.33e-04 -8.60e-04 1.39e-03 -8.46e-05 1.98e-03 -5.12e-03  
## 1032 2.76e-03 -1.33e-03 -5.66e-03 4.76e-03 2.93e-03 -3.67e-03 -2.21e-02  
## 1033 3.27e-05 -4.08e-04 -6.39e-04 -1.78e-03 -4.67e-04 1.81e-03 -4.36e-03  
## 1034 -6.25e-06 -5.11e-05 4.38e-05 6.09e-05 1.64e-05 -1.01e-04 -2.39e-04  
## 1035 -1.56e-02 -8.73e-03 2.12e-02 9.59e-04 -8.59e-03 8.06e-04 6.80e-02  
## 1036 -8.93e-03 5.20e-03 -5.81e-03 7.78e-03 1.19e-02 9.37e-03 4.48e-02  
## 1037 -2.07e-02 1.95e-02 1.65e-02 -1.29e-02 -2.59e-02 6.82e-03 -9.83e-02  
## 1038 1.12e-02 1.29e-05 -2.41e-02 1.00e-02 -1.24e-02 7.99e-03 -5.43e-02  
## 1039 -8.65e-04 1.48e-03 -5.53e-03 -7.30e-03 -5.14e-03 3.93e-03 1.50e-02  
## 1040 1.61e-02 -1.96e-03 2.19e-02 2.83e-03 2.87e-02 3.49e-03 5.58e-02  
## 1041 -2.21e-02 1.22e-02 1.28e-02 3.10e-02 -2.43e-02 -1.35e-02 -8.07e-02  
## 1042 2.14e-03 4.90e-03 4.34e-03 -9.18e-03 3.47e-04 1.20e-03 2.07e-02  
## 1043 -7.54e-03 -2.02e-02 -4.22e-03 -1.88e-02 -2.36e-03 3.86e-03 5.82e-02  
## 1044 6.68e-04 -3.90e-04 5.63e-04 -1.06e-04 -3.62e-04 -1.33e-04 2.17e-03  
## 1045 4.07e-03 -1.20e-03 -1.18e-02 1.08e-02 -5.99e-03 5.10e-03 4.27e-02  
## 1046 -9.17e-04 6.13e-04 -6.18e-03 4.43e-03 -3.55e-03 -6.99e-06 1.28e-02  
## 1047 1.04e-02 2.02e-02 -1.82e-02 -1.46e-02 4.64e-02 -3.96e-02 -9.16e-02  
## 1048 3.15e-02 1.04e-02 1.51e-02 -2.17e-03 1.88e-02 -1.57e-03 -1.02e-01  
## 1049 -2.52e-02 -5.09e-03 -1.13e-02 -1.16e-02 -6.69e-03 1.21e-02 6.74e-02  
## 1050 -8.14e-03 -1.19e-05 -6.58e-03 1.41e-02 -9.31e-03 -3.56e-03 3.74e-02  
## 1051 3.14e-02 3.17e-03 -2.41e-02 1.26e-03 8.62e-03 -1.36e-02 -9.17e-02  
## 1052 1.08e-02 1.30e-02 2.45e-03 2.13e-02 -2.90e-03 -2.81e-03 -6.10e-02  
## 1053 -4.32e-04 -6.38e-04 1.24e-03 2.39e-03 -5.49e-04 -1.01e-03 5.94e-03  
## 1054 1.80e-02 -4.99e-03 6.45e-03 -1.54e-03 -1.61e-02 5.91e-03 -4.19e-02  
## 1055 -2.15e-02 -6.61e-05 9.45e-03 -1.73e-02 -2.07e-02 1.38e-02 -6.36e-02  
## 1056 1.09e-02 -1.56e-03 4.46e-03 2.09e-02 -1.23e-02 1.10e-02 -4.93e-02  
## 1057 -2.63e-02 9.48e-03 6.04e-03 -6.30e-03 -1.57e-02 1.26e-02 -6.48e-02  
## 1058 -6.92e-04 5.68e-05 -4.38e-03 -5.29e-03 -3.15e-03 1.11e-03 1.04e-02  
## 1059 5.64e-04 8.13e-03 -2.47e-03 5.30e-03 -2.43e-03 9.45e-03 2.33e-02  
## 1060 2.07e-03 -6.86e-03 5.82e-03 -6.88e-03 -1.28e-03 1.41e-03 2.13e-02  
## 1061 5.10e-03 -7.52e-03 8.44e-03 -1.38e-02 -5.13e-03 -2.71e-03 3.46e-02  
## 1062 2.73e-03 4.45e-03 4.37e-03 5.86e-03 2.41e-03 -2.53e-04 1.98e-02  
## 1063 -2.44e-02 6.82e-03 7.63e-03 2.59e-02 -9.26e-03 5.37e-03 -7.20e-02  
## 1064 -1.09e-05 -7.75e-04 -3.64e-04 -1.07e-03 -2.75e-04 6.50e-04 -2.73e-03  
## 1065 -1.84e-02 -1.28e-02 -9.07e-03 5.36e-03 1.46e-02 -9.59e-03 6.25e-02  
## 1066 1.55e-02 2.27e-02 2.83e-03 2.50e-02 8.81e-03 -9.49e-03 -7.85e-02  
## 1067 2.38e-03 4.44e-03 5.15e-03 6.59e-03 3.98e-04 -6.95e-04 2.59e-02  
## 1068 -1.50e-02 -6.80e-03 -2.39e-02 3.06e-02 -2.64e-02 -2.12e-03 -5.84e-02  
## 1069 -2.29e-03 -7.20e-03 1.93e-02 2.14e-02 2.07e-02 -1.20e-02 -7.95e-02  
## 1070 -3.83e-03 1.89e-02 1.00e-02 -1.40e-02 3.97e-03 -5.51e-04 4.50e-02  
## 1071 8.82e-03 4.74e-04 3.32e-03 1.76e-02 -4.46e-03 1.54e-02 -4.29e-02  
## 1072 -2.40e-03 -4.71e-03 4.51e-03 3.44e-03 -1.06e-02 9.22e-03 2.21e-02  
## 1073 -8.92e-03 -1.55e-02 -2.51e-03 -8.36e-03 1.08e-03 5.24e-03 3.89e-02  
## 1074 -4.66e-04 -1.88e-03 -2.20e-03 -3.76e-04 -1.11e-03 -2.10e-03 6.33e-03  
## 1075 1.49e-02 4.07e-02 8.19e-03 2.84e-02 6.03e-03 2.00e-02 -9.61e-02  
## 1076 1.28e-02 2.20e-02 -5.11e-03 -3.30e-04 9.32e-03 6.48e-03 4.24e-02  
## 1077 1.81e-02 7.65e-03 -1.34e-02 1.71e-03 2.93e-02 9.31e-04 6.49e-02  
## 1078 -5.87e-05 2.96e-03 -2.66e-03 -2.86e-03 -9.62e-04 2.23e-04 6.47e-03  
## 1079 -8.74e-03 -1.76e-02 -2.98e-03 1.16e-02 -9.82e-03 5.56e-03 6.40e-02  
## 1080 1.70e-02 -6.19e-03 6.20e-03 -7.13e-04 -1.66e-02 7.20e-03 -4.03e-02  
## 1081 2.11e-04 1.01e-03 -5.72e-04 3.58e-04 -2.49e-05 9.95e-04 -2.89e-03  
## 1082 -1.60e-02 -3.10e-03 8.25e-03 -3.72e-03 -1.39e-02 4.10e-03 -5.73e-02  
## 1083 1.14e-02 -7.19e-04 -2.39e-02 2.20e-02 -1.05e-02 6.88e-03 -5.69e-02  
## 1084 1.13e-02 -1.23e-02 1.55e-02 -1.51e-02 1.49e-02 -3.69e-03 4.87e-02  
## 1085 7.22e-03 1.31e-03 1.74e-03 5.45e-03 -1.65e-03 1.22e-02 -3.98e-02  
## 1086 1.80e-02 3.52e-03 -9.83e-03 -1.27e-02 1.99e-02 -1.25e-03 5.78e-02  
## 1087 -2.87e-03 -2.37e-04 1.05e-02 -8.18e-03 -6.41e-04 3.67e-03 2.71e-02  
## 1088 -8.13e-03 2.13e-03 -6.56e-03 -1.21e-02 -7.40e-03 -2.21e-03 3.36e-02  
## 1089 -7.43e-03 -3.15e-03 -6.10e-03 -6.07e-04 -3.45e-03 4.11e-03 -3.08e-02  
## 1090 4.04e-04 -7.59e-04 -1.42e-03 -1.21e-03 -1.24e-03 -1.75e-03 -5.76e-03  
## 1091 5.55e-03 3.57e-04 6.01e-03 -6.37e-03 -3.80e-03 -9.78e-04 2.24e-02  
## 1092 3.31e-02 1.25e-02 -1.07e-02 5.89e-04 3.05e-02 -1.38e-02 7.59e-02  
## 1093 -1.49e-02 -1.31e-02 1.36e-02 -1.85e-02 -7.11e-03 -1.51e-02 5.52e-02  
## 1094 8.92e-03 -2.08e-02 8.97e-03 -6.59e-03 -2.40e-02 3.79e-03 -6.54e-02  
## 1095 -5.07e-04 2.66e-04 -4.71e-04 -3.31e-04 -4.42e-04 -2.45e-04 -1.64e-03  
## 1096 4.15e-03 -4.16e-03 -1.23e-02 1.33e-02 -7.92e-03 1.28e-03 5.69e-02  
## 1097 -3.85e-03 -9.60e-03 -1.04e-02 -9.07e-04 -1.48e-02 3.75e-03 3.25e-02  
## 1098 -1.50e-03 -6.37e-03 2.64e-03 -2.21e-04 -4.44e-03 1.87e-03 1.26e-02  
## 1099 -7.90e-03 8.70e-04 2.25e-02 -2.14e-02 1.22e-02 3.34e-03 -9.75e-02  
## 1100 -2.96e-03 -6.18e-04 -3.39e-03 6.68e-03 2.43e-03 5.02e-03 3.38e-02  
## 1101 -7.03e-04 -1.01e-03 -4.17e-03 3.71e-03 -1.56e-03 -2.01e-03 9.68e-03  
## 1102 -2.90e-02 5.08e-03 -1.06e-02 4.36e-03 2.44e-02 -6.94e-03 7.81e-02  
## 1103 -1.23e-03 9.89e-03 9.15e-03 -6.03e-03 2.21e-03 8.38e-03 2.62e-02  
## 1104 1.51e-04 -3.27e-04 -1.35e-03 1.86e-03 -4.67e-04 3.55e-03 -8.00e-03  
## 1105 1.17e-04 -3.74e-04 -1.16e-03 1.10e-04 -6.12e-04 3.14e-03 -6.85e-03  
## 1106 1.91e-03 -7.30e-03 -6.43e-03 1.12e-02 -3.58e-03 -1.20e-03 3.28e-02  
## 1107 -6.68e-04 -8.05e-04 -5.76e-04 6.89e-04 -8.19e-04 7.01e-04 -3.36e-03  
## 1108 2.33e-02 9.79e-03 1.20e-02 2.84e-02 -2.15e-02 3.15e-02 -8.86e-02  
## 1109 1.85e-03 -1.34e-03 -3.08e-03 -4.84e-03 3.12e-03 -4.66e-04 -1.22e-02  
## 1110 -2.34e-02 1.48e-02 1.03e-02 6.02e-03 -1.24e-02 1.23e-04 -7.35e-02  
## 1111 -1.60e-02 -1.05e-02 -3.38e-03 -8.03e-03 6.93e-04 -8.68e-03 6.50e-02  
## 1112 3.41e-03 9.31e-03 -4.81e-03 -1.54e-03 -1.56e-04 1.45e-03 1.95e-02  
## 1113 -1.35e-03 -8.76e-04 -6.49e-03 1.73e-03 -5.33e-03 -2.35e-03 1.63e-02  
## 1114 -5.97e-03 2.22e-02 -7.09e-03 -1.60e-03 1.00e-02 7.15e-03 4.45e-02  
## 1115 -9.44e-03 -1.70e-02 -3.80e-03 -3.06e-03 -1.87e-03 1.79e-03 4.73e-02  
## 1116 1.10e-03 -1.05e-04 -2.46e-03 2.18e-03 -1.36e-03 1.52e-03 -1.08e-02  
## 1117 1.54e-02 -1.94e-03 2.20e-02 -1.11e-02 2.45e-02 4.95e-03 4.91e-02  
## 1118 -3.68e-03 -2.27e-03 -2.97e-03 -7.13e-04 -5.43e-03 -7.32e-04 1.35e-02  
## 1119 1.93e-02 -2.68e-02 1.40e-02 1.49e-02 8.03e-03 -1.17e-02 -8.84e-02  
## 1120 2.35e-03 3.07e-03 -5.48e-03 -6.87e-03 -1.31e-03 -1.18e-03 2.03e-02  
## 1121 1.06e-03 -3.11e-04 -9.21e-03 -1.94e-02 -1.03e-02 4.74e-03 4.17e-02  
## 1122 9.68e-03 1.21e-02 2.00e-03 -9.95e-03 8.76e-03 2.44e-03 -5.95e-02  
## 1123 -1.91e-02 -1.45e-03 -2.25e-02 -1.73e-02 -3.00e-02 8.14e-03 -6.35e-02  
## 1124 2.36e-03 1.16e-03 -4.81e-03 5.17e-03 2.71e-04 -3.33e-03 1.64e-02  
## 1125 -2.53e-03 -8.47e-03 -7.24e-03 2.80e-04 -7.98e-03 3.37e-04 1.79e-02  
## 1126 2.77e-02 -1.19e-02 -2.79e-03 -5.06e-03 2.73e-03 7.16e-03 6.83e-02  
## 1127 -3.01e-05 2.66e-03 -2.50e-03 -1.24e-03 -9.26e-04 7.20e-04 5.49e-03  
## 1128 -1.41e-02 9.29e-03 1.62e-02 3.50e-02 2.90e-02 2.25e-03 -1.03e-01  
## 1129 8.08e-03 5.25e-03 2.10e-03 1.67e-02 -2.19e-03 1.97e-02 -5.57e-02  
## 1130 -2.19e-03 -5.07e-03 3.17e-03 2.65e-03 -8.41e-03 7.69e-03 2.03e-02  
## 1131 1.00e-02 -8.18e-03 1.50e-02 4.28e-03 2.10e-02 -6.75e-03 4.74e-02  
## 1132 1.72e-04 1.57e-03 -7.59e-04 -1.30e-03 -1.31e-03 2.91e-03 6.44e-03  
## 1133 7.28e-05 -6.28e-04 -1.74e-03 5.63e-04 -2.59e-03 5.34e-03 -1.14e-02  
## 1134 9.38e-05 2.45e-04 -1.84e-03 -6.68e-03 -4.25e-03 8.13e-03 -1.57e-02  
## 1135 8.29e-03 -6.32e-03 -1.07e-02 -2.24e-02 -1.51e-02 -1.91e-03 6.25e-02  
## 1136 -1.22e-03 3.95e-03 3.64e-03 4.63e-03 -6.86e-03 4.28e-03 2.34e-02  
## 1137 -7.57e-03 1.30e-02 6.63e-03 -4.21e-03 -6.78e-04 -1.15e-02 3.69e-02  
## 1138 -2.87e-03 -6.34e-03 -1.03e-02 4.34e-03 -1.22e-02 8.15e-03 2.73e-02  
## 1139 1.86e-02 7.63e-03 -9.96e-03 -1.51e-02 1.84e-02 -2.36e-03 8.63e-02  
## 1140 2.16e-03 -3.42e-03 1.43e-02 -7.79e-03 -6.85e-03 6.41e-04 4.58e-02  
## 1141 3.05e-02 -7.21e-03 1.39e-02 2.74e-03 1.25e-02 -2.17e-02 -7.59e-02  
## 1142 1.20e-02 -8.31e-03 -8.41e-03 -1.74e-02 1.50e-02 2.48e-04 5.25e-02  
## 1143 4.10e-03 2.01e-03 4.36e-03 6.22e-03 4.90e-03 -4.52e-04 2.24e-02  
## 1144 1.35e-02 4.44e-03 -1.19e-02 5.19e-04 -2.05e-02 3.05e-03 7.02e-02  
## 1145 7.58e-03 -3.21e-03 2.08e-03 -1.32e-03 -7.31e-03 1.13e-02 -2.83e-02  
## 1146 7.71e-03 4.43e-03 5.80e-03 -1.56e-02 -1.62e-02 1.71e-02 -5.28e-02  
## 1147 -2.08e-02 -1.18e-02 -7.31e-03 5.94e-03 -2.65e-03 -4.51e-03 5.35e-02  
## 1148 -2.50e-03 -4.66e-03 4.09e-03 -2.58e-03 -1.12e-02 9.32e-03 2.03e-02  
## 1149 1.11e-02 -1.05e-03 1.68e-02 1.17e-02 -5.99e-03 4.30e-03 5.18e-02  
## 1150 4.61e-03 -6.64e-04 -3.72e-03 6.09e-03 -1.95e-03 -6.46e-04 1.73e-02  
## 1151 -7.78e-05 1.48e-03 -2.01e-03 -1.83e-03 -7.83e-04 -6.61e-04 5.20e-03  
## 1152 -4.75e-03 -1.85e-03 -3.34e-03 -1.98e-04 1.12e-03 -1.41e-04 -1.24e-02  
## 1153 4.21e-05 -1.04e-03 -6.69e-04 -2.00e-03 -6.87e-04 1.63e-03 -4.84e-03  
## 1154 2.33e-02 4.38e-03 -2.89e-03 3.95e-06 -2.79e-04 9.62e-03 4.45e-02  
## 1155 -1.19e-02 -1.40e-02 -3.73e-03 -6.69e-04 -6.13e-04 3.34e-03 3.82e-02  
## 1156 -1.51e-02 -6.59e-03 3.54e-03 -1.47e-03 -9.96e-03 5.55e-03 -4.26e-02  
## 1157 -1.70e-02 -6.94e-03 -6.64e-03 7.51e-03 7.70e-03 -9.70e-03 8.53e-02  
## 1158 -1.06e-02 -8.35e-03 1.91e-02 -1.55e-02 6.84e-03 -2.41e-02 -9.81e-02  
## 1159 2.87e-03 2.22e-03 2.01e-03 1.92e-03 1.52e-03 -5.49e-04 -9.36e-03  
## 1160 -1.78e-02 -2.32e-03 3.74e-03 2.16e-02 -9.03e-03 1.27e-02 -5.48e-02  
## 1161 2.51e-03 -1.50e-03 1.72e-03 1.46e-03 2.43e-03 -5.01e-04 -8.71e-03  
## 1162 -4.91e-04 2.10e-04 1.37e-03 -2.12e-03 -1.73e-03 7.85e-04 6.17e-03  
## 1163 8.30e-04 4.11e-04 -1.32e-02 7.51e-04 -1.35e-02 3.23e-03 5.02e-02  
## 1164 5.40e-03 1.45e-02 -9.91e-03 -6.26e-03 -4.01e-03 5.26e-03 4.04e-02  
## 1165 -6.39e-04 3.56e-03 1.85e-03 2.33e-03 -4.76e-03 6.57e-03 1.54e-02  
## 1166 9.39e-03 -2.58e-03 -4.13e-03 3.69e-04 -5.26e-04 -8.18e-03 3.65e-02  
## 1167 -4.42e-05 -2.55e-04 2.71e-04 -3.61e-04 5.03e-05 -5.47e-04 -1.39e-03  
## 1168 9.99e-03 -7.18e-03 9.79e-03 -1.98e-02 -1.06e-02 -2.20e-02 -1.06e-01  
## 1169 -1.68e-02 -1.02e-02 -2.15e-03 1.04e-02 -1.68e-04 -7.96e-03 8.06e-02  
## 1170 1.09e-02 1.47e-02 3.69e-02 1.06e-02 5.56e-02 -3.93e-02 -9.21e-02  
## 1171 4.04e-03 2.07e-02 -1.14e-02 1.39e-02 -6.31e-03 1.66e-03 5.07e-02  
## 1172 1.45e-02 7.32e-04 -1.18e-02 -1.21e-02 1.96e-02 -9.11e-03 6.65e-02  
## 1173 9.86e-03 5.42e-03 3.29e-03 7.43e-03 -9.52e-03 3.23e-02 -5.87e-02  
## 1174 -3.86e-03 6.86e-03 4.62e-03 7.06e-03 -1.84e-03 -1.07e-03 2.09e-02  
## 1175 8.00e-03 1.05e-02 6.11e-03 -4.52e-03 -1.59e-02 2.19e-02 -5.99e-02  
## 1176 2.28e-02 -1.51e-02 -2.91e-03 9.47e-03 4.73e-04 -4.02e-03 6.48e-02  
## 1177 2.21e-03 5.59e-03 -3.09e-03 -3.58e-03 9.22e-04 1.02e-03 1.21e-02  
## 1178 -2.01e-02 9.89e-03 1.35e-02 3.43e-02 2.99e-02 -1.64e-03 -1.02e-01  
## 1179 -8.28e-03 -1.68e-02 -5.66e-03 5.50e-03 -5.78e-03 -5.26e-03 4.03e-02  
## 1180 -2.53e-03 -1.38e-05 -4.26e-03 7.07e-03 6.48e-03 5.64e-03 3.92e-02  
## 1181 2.49e-02 -1.11e-02 -1.20e-02 1.98e-02 1.86e-02 -1.77e-02 7.45e-02  
## 1182 3.55e-02 -5.08e-03 1.21e-02 -3.39e-04 1.90e-02 -2.86e-03 -6.57e-02  
## 1183 6.44e-04 -5.69e-04 -1.09e-03 -1.06e-03 -4.28e-04 -2.12e-04 4.70e-03  
## 1184 2.16e-03 1.16e-02 1.22e-02 -6.62e-03 1.01e-03 1.59e-02 3.71e-02  
## 1185 -2.40e-03 5.07e-03 -6.82e-03 7.01e-03 1.12e-02 -2.91e-03 4.65e-02  
## 1186 -2.53e-02 1.25e-03 3.01e-02 -1.73e-02 3.22e-02 -2.08e-02 8.39e-02  
## 1187 -9.55e-03 1.10e-02 -6.47e-03 7.68e-03 7.38e-03 -6.60e-03 5.29e-02  
## 1188 5.78e-04 1.23e-03 -9.96e-04 -2.44e-04 -1.47e-04 -4.54e-04 3.37e-03  
## 1189 -1.81e-02 -1.88e-03 4.89e-03 -2.36e-03 -1.09e-02 1.40e-02 -4.41e-02  
## 1190 -1.55e-03 3.08e-03 2.67e-03 3.89e-03 1.36e-05 -2.51e-04 1.10e-02  
## 1191 1.99e-03 -2.05e-03 1.15e-02 8.90e-04 -3.27e-03 3.07e-03 3.39e-02  
## 1192 -3.03e-02 -3.02e-03 -8.64e-03 4.13e-03 -1.78e-02 -6.73e-04 6.48e-02  
## 1193 2.50e-03 -1.83e-03 -3.15e-03 -2.44e-03 1.82e-03 -2.10e-04 -1.13e-02  
## 1194 -2.74e-03 -7.12e-03 -8.45e-03 -6.67e-03 -1.20e-02 5.26e-03 2.41e-02  
## 1195 -1.20e-05 1.42e-03 -1.56e-03 -1.52e-03 -2.86e-04 -3.93e-04 3.82e-03  
## 1196 1.32e-02 -4.55e-03 2.16e-02 4.88e-03 2.16e-02 -7.51e-03 6.38e-02  
## 1197 -7.20e-03 7.96e-03 -4.60e-03 -4.92e-03 7.04e-03 -6.01e-03 4.95e-02  
## 1198 1.72e-03 6.49e-05 -1.01e-02 1.22e-03 -8.87e-03 3.95e-03 3.94e-02  
## 1199 1.17e-02 -1.10e-02 8.63e-03 2.84e-02 -1.02e-02 -1.44e-02 -9.94e-02  
## 1200 4.49e-06 -1.41e-04 -1.44e-04 -3.87e-04 -7.61e-05 3.47e-04 -9.39e-04  
## 1201 6.58e-03 -4.91e-03 1.22e-02 -9.19e-03 1.70e-03 1.17e-02 4.62e-02  
## 1202 -1.02e-02 -8.40e-03 6.76e-03 -8.46e-04 -1.42e-02 4.04e-03 -3.61e-02  
## 1203 1.90e-02 1.22e-02 -1.28e-02 1.40e-03 2.97e-02 -1.49e-04 5.66e-02  
## 1204 -2.00e-02 -1.07e-02 -9.32e-03 -1.12e-02 -1.21e-02 -5.81e-03 6.06e-02  
## 1205 -1.73e-02 -6.34e-03 5.43e-03 -6.75e-04 -1.55e-02 6.76e-03 -3.94e-02  
## 1206 1.03e-02 2.10e-03 -5.08e-03 5.89e-03 5.78e-03 2.64e-03 2.87e-02  
## 1207 -1.72e-02 1.32e-03 1.22e-02 -4.13e-03 -2.54e-02 -2.85e-03 -5.83e-02  
## 1208 4.13e-02 1.38e-02 1.59e-02 -4.74e-03 1.72e-02 5.66e-03 -9.39e-02  
## 1209 1.78e-02 8.99e-03 -1.24e-02 1.50e-03 2.64e-02 1.84e-03 5.27e-02  
## 1210 1.19e-04 1.64e-04 -2.40e-03 4.24e-03 -3.47e-03 7.53e-03 -1.62e-02  
## 1211 1.95e-02 3.66e-04 5.00e-03 2.14e-02 -1.08e-02 5.10e-03 -5.07e-02  
## 1212 1.83e-02 -3.52e-03 7.28e-03 -1.61e-03 -1.84e-02 6.53e-03 -4.98e-02  
## 1213 1.76e-05 -1.42e-03 -1.26e-03 9.34e-04 -1.44e-03 2.83e-03 -8.00e-03  
## 1214 -6.72e-04 -2.28e-03 -2.59e-03 -3.25e-04 -1.34e-03 -3.43e-03 8.38e-03  
## 1215 -2.31e-02 2.31e-03 4.61e-03 9.30e-03 -8.53e-03 6.70e-03 -5.74e-02  
## 1216 -1.06e-02 -1.63e-02 -3.73e-03 -7.89e-04 -1.21e-02 2.68e-03 3.85e-02  
## 1217 -2.47e-02 -7.44e-03 1.38e-02 -1.88e-02 -9.31e-03 -2.40e-03 5.13e-02  
## 1218 8.50e-03 3.64e-03 -1.34e-02 1.27e-02 -5.51e-03 1.97e-02 5.83e-02  
## 1219 -8.33e-03 -1.88e-03 -4.03e-03 -9.13e-03 -1.92e-03 9.30e-04 -2.29e-02  
## 1220 -1.05e-02 -7.98e-03 6.25e-03 -1.45e-03 -1.47e-02 3.97e-03 -3.55e-02  
## 1221 -6.27e-03 -5.47e-03 2.13e-02 -1.80e-02 1.11e-02 -2.04e-02 -7.79e-02  
## 1222 2.14e-02 1.47e-02 1.19e-02 -3.81e-03 1.33e-02 1.23e-04 -9.31e-02  
## 1223 1.33e-04 -1.76e-04 -1.66e-03 2.15e-03 -6.36e-04 4.31e-03 -9.74e-03  
## 1224 1.18e-02 8.42e-03 1.24e-02 -1.37e-02 1.31e-02 -4.87e-03 4.39e-02  
## 1225 -9.28e-03 -1.79e-02 -4.82e-03 2.32e-02 1.02e-03 3.89e-03 6.18e-02  
## 1226 3.41e-03 -1.89e-03 -2.49e-03 1.14e-04 9.21e-04 -3.94e-04 -1.13e-02  
## 1227 1.67e-02 -1.44e-02 1.86e-02 6.52e-03 7.10e-03 6.19e-04 4.70e-02  
## 1228 -1.63e-02 -8.39e-03 8.68e-03 -6.06e-03 -5.74e-03 -2.35e-03 3.52e-02  
## 1229 -3.42e-02 1.99e-02 -3.32e-02 -8.34e-03 -2.94e-02 -1.56e-03 -8.73e-02  
## 1230 1.88e-04 7.82e-05 -1.81e-03 2.67e-03 -1.15e-03 5.08e-03 -1.10e-02  
## 1231 -1.82e-03 -1.43e-03 -2.84e-03 3.10e-03 2.74e-03 2.78e-03 2.19e-02  
## 1232 1.69e-02 -4.67e-04 -3.30e-03 1.44e-02 -1.27e-03 5.00e-03 3.69e-02  
## 1233 -1.08e-02 -8.01e-03 6.30e-03 -1.29e-03 -1.57e-02 4.38e-03 -3.60e-02  
## 1234 -7.08e-04 2.19e-03 1.99e-03 2.79e-03 -3.56e-03 3.37e-03 1.11e-02  
## 1235 7.92e-03 -1.62e-03 1.02e-03 -3.04e-03 -3.51e-03 7.23e-03 -3.28e-02  
## 1236 8.88e-03 -4.59e-04 -1.05e-02 -1.26e-02 -1.39e-02 4.61e-04 6.04e-02  
## 1237 -2.55e-03 -8.67e-03 -8.09e-03 5.78e-03 -8.41e-03 8.35e-04 2.03e-02  
## 1238 -2.46e-02 -1.02e-02 -9.62e-03 1.49e-02 -1.15e-02 -4.19e-03 5.01e-02  
## 1239 4.28e-03 -6.13e-03 9.33e-03 1.63e-03 5.86e-04 4.65e-03 4.05e-02  
## 1240 -6.16e-03 -5.61e-03 -2.47e-02 3.47e-03 8.71e-03 -2.25e-02 -7.11e-02  
## 1241 1.32e-02 3.94e-02 -2.27e-02 6.15e-02 4.73e-02 -2.56e-02 -1.09e-01  
## 1242 -1.68e-02 -2.35e-03 -4.54e-03 7.57e-03 9.97e-03 -5.96e-03 8.21e-02  
## 1243 -1.03e-02 -1.69e-02 -4.44e-03 8.16e-03 -4.04e-04 -2.57e-04 5.12e-02  
## 1244 1.50e-02 1.26e-02 1.63e-02 -1.74e-02 1.72e-02 -4.65e-03 5.51e-02  
## 1245 -2.45e-02 6.06e-03 -2.61e-02 -3.60e-03 -2.21e-02 1.63e-02 -6.81e-02  
## 1246 -6.24e-03 -5.83e-03 -2.39e-02 -1.73e-02 7.15e-03 -2.10e-02 -7.25e-02  
## 1247 8.27e-04 7.43e-03 8.66e-03 -5.98e-03 3.45e-03 5.29e-03 2.42e-02  
## 1248 -1.34e-02 -7.92e-03 -2.36e-02 -5.01e-04 -2.98e-02 1.05e-02 -5.86e-02  
## 1249 -2.50e-03 -4.54e-03 4.04e-03 -2.77e-03 -1.09e-02 9.06e-03 2.02e-02  
## 1250 1.88e-02 -4.10e-03 6.77e-03 -1.90e-03 -1.61e-02 6.03e-03 -4.32e-02  
## 1251 1.36e-02 8.69e-03 7.89e-03 -6.46e-04 7.23e-03 3.42e-03 2.89e-02  
## 1252 -1.49e-02 -9.29e-04 1.94e-02 1.97e-03 8.41e-03 -2.72e-02 -9.32e-02  
## 1253 1.57e-03 -7.07e-04 2.57e-03 -3.06e-04 2.93e-03 -1.54e-03 -9.99e-03  
## 1254 -1.59e-02 5.43e-03 1.35e-02 5.80e-03 3.74e-03 -5.55e-04 5.19e-02  
## 1255 -2.34e-05 -7.19e-04 -3.44e-04 -9.55e-04 -2.57e-04 5.00e-04 -2.33e-03  
## 1256 1.12e-02 -1.69e-02 -4.08e-02 8.04e-03 -1.46e-02 -1.17e-02 -1.03e-01  
## 1257 1.98e-03 5.31e-03 -1.24e-02 1.17e-02 -8.98e-03 4.59e-03 4.79e-02  
## 1258 1.50e-02 -1.88e-03 -1.33e-02 2.80e-03 2.76e-02 -1.68e-02 7.65e-02  
## 1259 2.60e-03 2.27e-04 -1.02e-02 1.97e-03 -7.89e-03 3.12e-03 4.63e-02  
## 1260 2.94e-02 3.40e-02 3.10e-03 2.23e-02 1.52e-02 -2.91e-02 -1.11e-01  
## 1261 3.55e-04 3.37e-03 -1.81e-03 -1.61e-04 2.45e-03 5.44e-03 1.45e-02  
## 1262 -3.57e-03 1.37e-04 1.19e-02 -2.32e-03 5.47e-03 6.97e-03 4.26e-02  
## 1263 1.59e-02 1.19e-02 -1.25e-02 4.04e-03 2.11e-02 -1.71e-02 9.27e-02  
## 1264 -3.03e-04 -1.88e-04 1.58e-04 1.66e-04 1.50e-04 -8.22e-06 -8.22e-04  
## 1265 7.58e-03 8.54e-04 1.34e-02 -2.20e-02 7.08e-03 -1.76e-02 -9.68e-02  
## 1266 7.86e-08 8.04e-07 1.35e-06 -1.03e-06 3.65e-07 1.08e-06 3.81e-06  
## 1267 1.19e-04 -5.46e-04 -1.22e-03 3.70e-04 -6.27e-04 3.08e-03 -7.30e-03  
## 1268 3.85e-03 -1.68e-03 -2.53e-03 2.02e-03 -3.26e-05 -3.01e-03 1.26e-02  
## 1269 -2.05e-03 -5.66e-03 3.16e-03 3.12e-03 -7.79e-03 6.33e-03 1.88e-02  
## 1270 1.12e-02 -1.32e-02 -6.13e-03 8.59e-03 9.52e-04 -4.63e-03 4.99e-02  
## 1271 -4.64e-04 9.37e-03 -3.47e-03 -5.90e-03 1.39e-03 1.17e-02 2.72e-02  
## 1272 -2.77e-03 -4.55e-03 -3.24e-03 -7.51e-03 -2.99e-03 2.87e-03 -1.89e-02  
## 1273 1.09e-04 4.94e-05 -3.27e-05 4.55e-05 1.45e-05 5.57e-05 2.28e-04  
## 1274 1.29e-04 -5.15e-05 3.30e-03 -7.89e-05 -1.57e-03 4.87e-03 -9.37e-03  
## 1275 -3.72e-03 -2.48e-03 5.56e-03 -2.40e-03 9.18e-04 -3.24e-03 2.28e-02  
## 1276 -8.37e-04 1.01e-03 -5.80e-03 -7.27e-03 -4.72e-03 1.50e-03 1.52e-02  
## 1277 1.86e-04 1.65e-03 -7.94e-04 -1.36e-03 -1.34e-03 3.02e-03 6.76e-03  
## 1278 -7.50e-04 -5.36e-04 -3.84e-03 -4.44e-03 -2.65e-03 -4.96e-04 9.34e-03  
## 1279 -2.84e-02 2.15e-03 -1.26e-02 1.50e-02 -1.98e-02 -1.52e-03 6.78e-02  
## 1280 7.51e-04 5.88e-03 -2.92e-03 4.55e-03 1.32e-04 8.08e-03 2.01e-02  
## 1281 8.56e-06 -1.02e-03 -1.21e-03 -4.17e-03 -2.16e-03 3.93e-03 -9.54e-03  
## 1282 8.89e-03 -3.61e-03 2.44e-03 -1.68e-03 -6.43e-03 8.26e-03 -3.88e-02  
## 1283 -1.36e-02 1.18e-02 1.43e-02 -1.07e-02 -3.46e-03 -1.08e-02 5.40e-02  
## 1284 -9.73e-03 -2.11e-02 -5.29e-03 8.45e-03 1.95e-03 -1.78e-02 6.24e-02  
## 1285 8.80e-05 -8.89e-04 -1.22e-03 -3.84e-03 -1.99e-03 4.29e-03 -9.44e-03  
## 1286 -2.20e-03 3.89e-03 -3.68e-03 3.53e-03 1.46e-03 3.00e-03 -1.52e-02  
## 1287 6.02e-04 -5.93e-04 -8.65e-04 -4.44e-05 9.14e-04 -1.40e-04 -3.13e-03  
## 1288 -1.62e-02 7.71e-05 -2.41e-02 -2.17e-03 -3.43e-02 8.34e-03 -7.69e-02  
## 1289 5.58e-04 -6.30e-04 -1.03e-03 7.93e-04 7.62e-04 -1.45e-04 -3.32e-03  
## 1290 6.54e-04 3.08e-03 -1.47e-03 -2.70e-03 -2.26e-04 4.87e-03 1.12e-02  
## 1291 -6.23e-03 -1.46e-03 -2.57e-02 1.94e-03 8.81e-03 -2.13e-02 -7.32e-02  
## 1292 1.32e-03 -7.60e-04 1.39e-03 1.32e-03 1.33e-03 -7.35e-04 -6.62e-03  
## 1293 2.84e-02 -1.60e-03 3.30e-02 -3.00e-02 1.86e-02 6.73e-04 8.27e-02  
## 1294 1.88e-02 8.28e-03 3.09e-02 2.25e-03 3.17e-02 -5.24e-03 6.70e-02  
## 1295 -8.50e-03 2.59e-03 8.95e-03 2.53e-03 -6.42e-04 -6.77e-03 4.02e-02  
## 1296 -5.99e-03 -2.82e-04 2.05e-02 -2.45e-03 1.72e-02 -1.89e-02 -8.02e-02  
## 1297 7.11e-04 2.99e-03 -1.32e-03 1.40e-04 -6.46e-04 4.85e-03 1.05e-02  
## 1298 -3.68e-03 -3.75e-03 6.84e-03 -3.34e-04 -2.09e-03 2.61e-03 -2.18e-02  
## 1299 -1.45e-03 2.23e-03 -2.32e-03 3.36e-03 -2.80e-04 -9.14e-04 8.67e-03  
## 1300 1.86e-04 2.16e-04 -2.43e-03 4.35e-03 -3.42e-03 7.72e-03 -1.66e-02  
## 1301 1.68e-02 -3.11e-03 3.06e-03 1.80e-02 -4.17e-03 3.04e-03 -4.81e-02  
## 1302 1.09e-02 -9.75e-03 -7.76e-03 -1.62e-02 -1.20e-02 6.80e-04 4.72e-02  
## 1303 1.56e-03 3.24e-02 -5.38e-02 2.26e-03 1.28e-02 -5.24e-02 -1.39e-01  
## 1304 -6.08e-03 -2.28e-04 -3.91e-03 5.44e-03 -1.44e-03 -3.64e-03 1.55e-02  
## 1305 -1.60e-02 -3.36e-03 2.52e-03 -3.12e-03 -7.45e-03 6.09e-03 -4.04e-02  
## 1306 -2.04e-02 -4.76e-04 4.63e-03 -4.14e-03 -1.08e-02 4.30e-03 -4.40e-02  
## 1307 9.15e-03 8.12e-03 2.53e-03 -8.13e-03 -6.68e-03 1.92e-03 -4.99e-02  
## 1308 -1.10e-02 2.06e-03 -7.03e-03 -2.78e-03 -1.56e-04 -2.29e-03 3.69e-02  
## 1309 -5.69e-03 -6.86e-04 -2.96e-03 -3.89e-03 -3.05e-03 7.21e-04 1.40e-02  
## 1310 9.76e-03 3.70e-02 5.81e-03 -1.57e-02 7.48e-03 4.46e-03 -8.53e-02  
## 1311 -3.68e-02 -8.60e-03 1.82e-02 -1.76e-02 -2.97e-02 9.31e-03 -1.07e-01  
## 1312 1.41e-04 3.91e-03 7.05e-04 -1.93e-03 -8.84e-04 2.18e-03 7.00e-03  
## 1313 -3.13e-03 -5.88e-03 -1.08e-02 4.97e-03 -1.43e-02 8.44e-03 2.59e-02  
## 1314 -3.61e-03 -6.45e-03 6.29e-03 5.25e-03 -1.59e-02 8.69e-03 3.19e-02  
## 1315 -2.58e-02 -5.13e-03 -1.28e-02 1.27e-03 -9.88e-03 -6.70e-03 5.49e-02  
## 1316 1.12e-02 1.94e-02 4.00e-02 -1.40e-02 5.20e-02 -4.00e-02 -1.08e-01  
## 1317 -9.25e-03 4.35e-03 1.06e-02 1.25e-02 1.49e-02 -6.06e-03 4.21e-02  
## 1318 -2.59e-03 3.64e-03 4.24e-03 3.68e-03 9.81e-04 1.94e-03 -1.51e-02  
## 1319 -2.87e-03 -6.61e-03 -8.98e-03 -1.40e-02 -1.41e-02 7.65e-03 2.91e-02  
## 1320 2.89e-05 -9.43e-05 4.58e-04 2.98e-04 2.13e-05 6.41e-04 -1.47e-03  
## 1321 9.90e-03 2.92e-02 -1.78e-02 -1.74e-02 4.12e-02 -3.60e-02 -1.02e-01  
## 1322 -1.06e-02 -1.02e-02 6.52e-03 -6.16e-04 -1.30e-02 -6.72e-04 -4.13e-02  
## 1323 5.28e-03 -1.04e-03 -3.65e-03 -5.05e-03 9.03e-04 -2.91e-03 1.99e-02  
## 1324 3.16e-03 -3.29e-03 8.77e-03 2.56e-02 6.69e-03 -3.16e-02 -8.99e-02  
## 1325 3.79e-03 -8.38e-03 7.15e-03 2.18e-03 -1.75e-03 -1.38e-03 2.88e-02  
## 1326 1.87e-04 -1.46e-05 -2.43e-03 3.69e-03 -2.74e-03 7.58e-03 -1.63e-02  
## 1327 2.70e-03 3.67e-03 -6.16e-03 -3.15e-03 -3.27e-04 3.08e-04 2.10e-02  
## 1328 9.74e-03 8.60e-03 -1.44e-02 1.20e-02 -8.50e-03 2.79e-02 6.55e-02  
## 1329 2.56e-04 -4.72e-04 -1.57e-03 2.45e-03 -4.87e-04 4.05e-03 -9.65e-03  
## 1330 3.40e-03 -8.28e-04 -4.76e-03 6.93e-03 4.17e-03 -3.67e-03 2.06e-02  
## 1331 -1.01e-02 -1.27e-02 1.40e-02 2.59e-03 1.69e-02 -3.34e-02 -8.19e-02  
## 1332 -5.44e-03 -8.27e-03 2.00e-02 -1.73e-02 1.42e-02 -1.98e-02 -6.66e-02  
## 1333 1.36e-02 -4.48e-04 2.34e-02 -2.49e-02 2.33e-02 -4.38e-03 6.47e-02  
## 1334 -5.14e-07 2.19e-04 6.89e-05 -2.37e-04 -2.74e-05 2.24e-05 4.79e-04  
## 1335 1.04e-02 1.96e-02 -1.80e-02 -1.38e-02 4.51e-02 -3.84e-02 -9.06e-02  
## 1336 8.62e-03 4.44e-02 4.69e-03 2.58e-03 2.66e-02 -3.75e-02 -1.03e-01  
## 1337 -1.57e-02 -5.54e-04 1.65e-02 2.09e-02 1.83e-02 -1.21e-02 -8.67e-02  
## 1338 2.22e-04 7.88e-03 1.21e-03 2.25e-03 -1.78e-03 3.93e-03 1.22e-02  
## 1339 -8.60e-04 -7.32e-04 -7.71e-04 -8.21e-05 -9.07e-04 1.16e-04 3.58e-03  
## 1340 -1.62e-03 -7.66e-03 3.26e-03 4.58e-03 -4.08e-03 -4.52e-04 1.58e-02  
## 1341 -6.85e-04 2.84e-03 -4.04e-03 -1.42e-03 -2.17e-03 1.61e-02 4.12e-02  
## 1342 1.85e-02 4.60e-03 7.95e-03 -4.81e-03 -9.94e-03 1.12e-02 -5.82e-02  
## 1343 8.10e-05 8.36e-03 -6.09e-03 3.38e-03 -2.42e-03 2.46e-03 1.40e-02  
## 1344 -2.11e-02 -3.24e-03 6.47e-03 -2.31e-03 -1.58e-02 4.30e-03 -5.13e-02  
## 1345 -1.36e-02 -1.69e-02 -5.17e-03 7.63e-03 -6.76e-03 -6.86e-03 5.51e-02  
## 1346 -2.07e-03 -2.45e-03 -2.04e-03 -4.57e-03 -6.16e-04 1.14e-03 -1.10e-02  
## 1347 -2.52e-03 -7.11e-03 -9.03e-03 -1.29e-03 -1.10e-02 6.28e-03 2.28e-02  
## 1348 1.09e-03 -8.97e-05 -3.00e-03 2.57e-03 -1.45e-03 9.09e-04 -1.29e-02  
## 1349 6.40e-05 3.70e-04 3.57e-04 -2.02e-04 -3.33e-05 4.84e-04 -1.07e-03  
## 1350 -2.47e-02 7.40e-03 6.29e-03 -5.35e-03 -1.24e-02 1.05e-02 -6.24e-02  
## 1351 -3.06e-03 -6.37e-03 -9.91e-03 -1.68e-03 -1.41e-02 7.90e-03 2.39e-02  
## 1352 1.89e-02 8.82e-03 -1.07e-02 -1.54e-02 2.28e-02 -3.50e-03 6.33e-02  
## 1353 -6.94e-03 -1.71e-02 -3.67e-03 -1.39e-02 -5.93e-03 2.06e-04 4.70e-02  
## 1354 1.72e-02 3.88e-03 2.44e-02 1.76e-02 3.23e-02 3.10e-04 5.58e-02  
## 1355 8.79e-03 -1.76e-03 2.48e-03 -2.26e-03 -7.07e-03 1.02e-02 -3.21e-02  
## 1356 8.05e-03 -2.23e-03 1.17e-03 -2.55e-03 -2.92e-03 7.28e-03 -3.19e-02  
## 1357 -1.11e-02 -6.09e-03 -2.32e-02 -1.22e-03 -2.14e-02 1.26e-02 -5.79e-02  
## 1358 -1.33e-02 -8.22e-03 9.21e-03 -7.36e-04 -2.13e-02 8.44e-04 -3.98e-02  
## 1359 3.07e-03 -1.41e-03 -5.79e-03 4.06e-03 5.31e-03 -2.01e-03 -1.73e-02  
## 1360 2.28e-03 -2.11e-03 -2.92e-03 6.23e-04 8.92e-04 7.09e-04 -1.07e-02  
## 1361 4.72e-02 4.47e-02 1.47e-02 2.77e-02 4.18e-03 2.00e-02 -1.38e-01  
## 1362 -1.71e-02 -3.20e-03 4.30e-03 -2.77e-03 -1.12e-02 8.20e-03 -4.37e-02  
## 1363 1.35e-02 -1.25e-02 -3.29e-03 1.07e-02 4.10e-03 6.18e-03 5.13e-02  
## 1364 3.59e-03 -9.46e-04 2.58e-03 1.66e-03 4.03e-03 1.24e-04 1.03e-02  
## 1365 9.25e-04 -7.44e-03 -7.63e-03 1.22e-02 -6.81e-03 -3.96e-03 3.57e-02  
## 1366 -9.46e-06 4.46e-03 -3.60e-03 -4.01e-03 -1.62e-03 1.06e-03 8.99e-03  
## 1367 -1.45e-02 -7.26e-03 3.74e-03 -6.64e-04 -9.40e-03 5.21e-03 -3.96e-02  
## 1368 -1.47e-02 -7.56e-03 3.05e-02 2.11e-02 2.11e-02 -1.54e-02 7.23e-02  
## 1369 -2.20e-03 -5.04e-03 3.36e-03 2.70e-03 -8.67e-03 8.18e-03 2.13e-02  
## 1370 -2.19e-04 2.80e-04 -2.92e-04 4.10e-04 -1.19e-04 -1.51e-04 1.06e-03  
## 1371 -1.68e-06 2.54e-04 -3.16e-04 -3.01e-04 -7.32e-05 -1.24e-05 7.28e-04  
## 1372 2.18e-02 -2.92e-02 1.67e-02 -1.91e-02 1.10e-02 9.40e-03 -8.17e-02  
## 1373 -1.08e-02 -1.42e-03 -6.75e-03 5.68e-03 2.81e-03 -9.55e-04 -2.56e-02  
## 1374 5.63e-03 -1.10e-02 -3.15e-03 -6.69e-03 -8.36e-03 1.44e-03 2.97e-02  
## 1375 -2.66e-03 -1.36e-03 2.83e-03 1.87e-03 -2.44e-03 3.59e-03 -1.21e-02  
## 1376 -1.43e-03 -1.81e-03 -1.96e-03 -5.00e-03 7.71e-04 5.33e-03 1.97e-02  
## 1377 1.83e-02 9.43e-03 2.66e-02 1.76e-02 3.75e-02 -2.94e-03 6.12e-02  
## 1378 -4.07e-04 -1.52e-03 1.26e-03 2.65e-03 -6.44e-04 -1.69e-03 6.69e-03  
## 1379 -3.51e-03 -7.80e-03 1.55e-02 3.61e-02 2.32e-02 -1.71e-02 -7.64e-02  
## 1380 -1.81e-02 1.22e-03 1.07e-02 -6.16e-03 -2.23e-02 -4.66e-03 -5.92e-02  
## 1381 -2.18e-04 8.01e-03 -4.47e-03 -1.24e-03 4.68e-03 1.36e-03 2.26e-02  
## 1382 6.27e-04 -8.49e-04 -1.33e-03 8.86e-05 9.29e-04 -4.47e-04 -4.17e-03  
## 1383 3.24e-04 3.38e-04 -1.95e-03 2.92e-03 -1.50e-03 6.29e-03 -1.25e-02  
## 1384 1.21e-02 -6.99e-03 -1.06e-02 -9.81e-03 -1.35e-02 2.06e-03 5.47e-02  
## 1385 2.07e-02 9.00e-03 4.78e-03 -1.02e-02 7.67e-04 8.31e-03 -6.78e-02  
## 1386 8.02e-03 -2.74e-03 -4.86e-03 -4.16e-04 -2.88e-04 9.68e-04 -2.46e-02  
## 1387 1.80e-02 -6.92e-03 -8.40e-03 8.48e-03 1.31e-02 -1.05e-02 6.46e-02  
## 1388 -1.93e-04 -3.64e-04 5.22e-04 -6.89e-04 -3.69e-04 -1.27e-04 2.51e-03  
## 1389 -2.41e-03 -4.83e-03 4.52e-03 3.61e-03 -1.10e-02 9.50e-03 2.22e-02  
## 1390 -1.48e-04 -3.19e-03 -2.60e-03 5.65e-03 -9.90e-04 6.40e-03 2.33e-02  
## 1391 2.64e-02 -7.96e-03 1.79e-02 -1.49e-02 3.29e-02 2.70e-03 -1.02e-01  
## 1392 2.21e-03 -2.09e-04 8.49e-03 1.59e-03 2.88e-03 -3.06e-02 -9.19e-02  
## 1393 -2.80e-02 2.91e-03 -1.22e-02 -1.67e-02 2.11e-02 -1.84e-02 8.09e-02  
## 1394 1.31e-02 -1.10e-02 -9.59e-03 6.24e-03 1.61e-02 -1.07e-02 5.82e-02  
## 1395 -4.82e-04 1.04e-03 1.53e-03 2.51e-03 -2.52e-03 2.75e-03 9.71e-03  
## 1396 -2.14e-03 -5.31e-03 3.31e-03 2.83e-03 -8.10e-03 7.32e-03 2.04e-02  
## 1397 8.97e-03 -2.34e-03 2.27e-03 7.32e-03 -6.02e-03 1.94e-02 -4.67e-02  
## 1398 3.54e-02 8.05e-03 1.61e-02 -2.63e-03 6.27e-03 -1.30e-02 -9.57e-02  
## 1399 -2.55e-02 -9.88e-04 -1.07e-02 5.93e-04 -1.65e-02 -1.21e-03 6.18e-02  
## 1400 -1.12e-04 1.78e-03 7.20e-04 -1.95e-03 -7.16e-04 -1.61e-04 4.68e-03  
## 1401 -1.21e-02 -7.19e-03 -2.01e-02 -8.87e-04 -2.17e-02 5.02e-03 -4.46e-02  
## 1402 4.30e-05 -2.07e-04 8.21e-04 7.14e-05 -3.78e-05 8.98e-04 -2.51e-03  
## 1403 -1.20e-02 2.40e-02 -1.16e-02 8.68e-03 5.51e-03 2.56e-03 5.15e-02  
## 1404 -6.61e-04 -2.56e-03 -2.83e-03 1.30e-04 -3.17e-03 9.55e-03 2.34e-02  
## 1405 -1.40e-02 -1.65e-02 -5.74e-03 -1.74e-02 4.94e-03 6.99e-03 6.17e-02  
## 1406 6.75e-03 -3.66e-03 1.08e-03 -1.13e-03 -3.28e-03 8.95e-03 -2.57e-02  
## 1407 -1.25e-02 -9.26e-03 -3.01e-03 -2.68e-02 1.27e-03 -1.22e-02 7.86e-02  
## 1408 -2.61e-02 2.61e-03 7.66e-03 -4.58e-03 -1.46e-02 8.78e-03 -6.08e-02  
## 1409 -3.92e-03 -1.93e-03 -2.41e-03 5.80e-06 -3.14e-03 -1.25e-03 -9.38e-03  
## 1410 2.50e-02 -1.72e-02 2.13e-02 6.31e-03 1.09e-02 -4.28e-03 5.76e-02  
## 1411 -2.15e-03 -6.84e-05 -2.51e-03 -9.73e-04 3.55e-04 6.92e-03 2.27e-02  
## 1412 -1.58e-03 3.82e-03 -3.85e-03 -2.29e-04 1.73e-03 -2.02e-03 1.98e-02  
## 1413 1.39e-03 -3.94e-04 -8.84e-03 -8.87e-03 -1.32e-02 3.40e-03 5.07e-02  
## 1414 -8.78e-03 -1.28e-02 -2.41e-03 -7.81e-03 -2.74e-03 1.21e-02 3.60e-02  
## 1415 7.15e-05 -4.99e-04 2.02e-03 -2.18e-03 -7.14e-04 2.28e-03 -5.29e-03  
## 1416 -7.28e-03 -1.69e-02 -1.64e-03 9.81e-03 -5.79e-03 1.13e-02 4.87e-02  
## 1417 1.57e-02 -4.76e-03 3.17e-03 7.45e-03 -5.38e-03 6.06e-03 -3.91e-02  
## 1418 -1.81e-05 -1.64e-04 1.65e-04 -9.87e-06 5.66e-05 -3.43e-04 -8.31e-04  
## 1419 7.16e-03 2.39e-03 3.33e-03 -4.03e-03 -6.92e-03 1.47e-02 -4.20e-02  
## 1420 -1.04e-05 -4.48e-05 2.90e-05 6.61e-05 7.24e-06 -4.98e-05 1.86e-04  
## 1421 -1.79e-02 -1.32e-02 -1.01e-02 3.07e-03 -1.39e-02 -1.52e-02 6.13e-02  
## 1422 2.77e-03 -1.09e-03 -1.34e-03 1.96e-03 -9.34e-05 1.25e-03 8.75e-03  
## 1423 1.48e-02 -1.20e-02 1.86e-02 6.85e-03 1.38e-02 6.16e-04 5.53e-02  
## 1424 -3.85e-03 -8.58e-03 1.60e-02 8.38e-04 1.85e-02 -1.33e-02 -6.50e-02  
## 1425 -9.09e-06 3.24e-04 1.67e-04 4.68e-04 2.51e-05 -2.70e-04 1.20e-03  
## 1426 -1.04e-03 9.00e-04 3.05e-03 -3.88e-03 -5.10e-03 1.56e-03 1.43e-02  
## 1427 7.88e-03 8.31e-04 -4.75e-03 -7.92e-03 -6.13e-03 1.84e-03 2.97e-02  
## 1428 -1.19e-03 -5.50e-03 2.21e-03 -4.69e-03 -2.66e-03 -6.83e-04 1.00e-02  
## 1429 6.41e-03 -7.39e-03 -9.23e-03 1.08e-02 -7.26e-03 -1.16e-02 4.94e-02  
## 1430 9.83e-03 4.33e-03 3.70e-03 -1.48e-02 -1.16e-02 1.92e-02 -5.00e-02  
## 1431 -4.47e-03 -1.61e-02 -1.88e-03 -5.50e-04 -1.28e-02 1.10e-02 3.86e-02  
## 1432 -1.60e-02 -3.32e-03 4.08e-03 -1.89e-03 -1.07e-02 1.35e-02 -4.00e-02  
## 1433 2.58e-03 -6.62e-03 1.26e-02 1.27e-02 -4.43e-03 2.09e-03 3.98e-02  
## 1434 5.21e-03 4.01e-03 -7.28e-03 1.04e-02 -5.23e-05 4.00e-04 2.90e-02  
## 1435 -1.40e-02 -6.29e-03 7.07e-03 1.02e-02 -1.33e-02 5.08e-03 -5.30e-02  
## 1436 -5.63e-04 1.69e-03 1.57e-03 -3.77e-03 -3.41e-03 4.01e-03 1.08e-02  
## 1437 -6.84e-03 6.08e-03 -1.90e-03 -1.27e-02 -5.55e-03 9.40e-03 4.79e-02  
## 1438 -1.23e-03 -1.60e-03 9.10e-03 4.46e-03 6.30e-03 3.91e-03 2.82e-02  
## 1439 6.49e-03 -4.08e-03 -1.24e-02 1.20e-02 -6.32e-03 -1.39e-03 5.35e-02  
## 1440 -5.83e-04 1.01e-02 -5.14e-03 3.88e-03 8.25e-03 -3.09e-03 2.90e-02  
## 1441 -1.55e-02 -1.24e-02 -6.31e-03 2.56e-02 1.22e-02 -1.99e-02 7.86e-02  
## 1442 2.92e-03 4.29e-03 -1.39e-02 -1.03e-03 -1.36e-02 1.16e-02 6.12e-02  
## 1443 -1.65e-02 3.53e-03 -2.48e-02 1.45e-02 -3.06e-02 1.21e-02 -7.99e-02  
## 1444 -1.77e-03 -6.84e-03 3.28e-03 -2.47e-04 -4.86e-03 1.03e-03 1.32e-02  
## 1445 -3.30e-03 -5.55e-03 5.96e-03 -1.55e-02 -1.51e-02 9.69e-03 3.23e-02  
## 1446 -2.76e-03 -6.77e-03 -9.80e-03 4.59e-03 -1.19e-02 7.19e-03 2.50e-02  
## 1447 9.67e-03 -9.97e-03 1.30e-02 1.29e-02 -8.46e-03 -9.28e-03 5.32e-02  
## 1448 -1.46e-02 -1.76e-02 -5.90e-03 -3.32e-03 -9.92e-03 -5.54e-03 5.90e-02  
## 1449 -1.40e-02 -9.01e-03 -4.75e-03 6.55e-03 8.67e-03 -6.23e-03 6.00e-02  
## 1450 -1.97e-03 -8.77e-03 -6.83e-03 5.21e-03 -5.83e-03 -1.09e-04 1.81e-02  
## 1451 -6.24e-03 1.74e-02 -7.04e-03 -1.76e-03 1.01e-02 -5.90e-03 4.06e-02  
## 1452 1.13e-02 7.57e-04 2.33e-03 -4.52e-03 -6.87e-03 1.65e-02 -4.66e-02  
## 1453 -4.88e-04 4.31e-03 -5.50e-03 9.31e-03 7.36e-03 1.21e-03 4.88e-02  
## 1454 1.06e-02 2.00e-02 -1.88e-02 1.24e-02 4.70e-02 -4.01e-02 -9.05e-02  
## 1455 2.99e-04 1.28e-02 -3.97e-03 5.70e-03 4.55e-03 6.62e-03 3.04e-02  
## 1456 -1.26e-02 -4.70e-03 7.64e-03 -2.71e-03 -1.50e-02 1.79e-02 -5.60e-02  
## 1457 2.18e-02 -1.37e-02 2.19e-02 -8.03e-03 1.58e-02 -1.17e-02 6.85e-02  
## 1458 -3.85e-04 -6.26e-04 1.19e-03 2.36e-03 -5.64e-04 -9.90e-04 6.40e-03  
## 1459 -1.54e-02 -6.35e-03 -2.29e-02 -5.89e-04 -2.93e-02 1.75e-04 -4.91e-02  
## 1460 -1.95e-02 -8.07e-03 9.65e-03 9.17e-03 -1.75e-03 -6.31e-03 3.97e-02  
## 1461 1.35e-02 4.60e-03 2.40e-02 -1.58e-02 3.05e-02 -9.33e-03 7.06e-02  
## 1462 1.26e-03 -4.03e-03 -1.06e-02 8.85e-04 -5.17e-03 3.38e-03 3.50e-02  
## 1463 -1.51e-02 8.87e-03 -8.96e-03 1.60e-02 -1.11e-02 -4.33e-03 5.27e-02  
## 1464 -6.96e-03 4.19e-04 -3.43e-03 -6.12e-03 5.68e-04 4.66e-03 2.48e-02  
## 1465 1.40e-02 2.84e-02 -3.77e-02 2.86e-02 -1.04e-02 6.23e-03 -8.98e-02  
## 1466 -2.31e-03 -5.84e-03 3.92e-03 3.77e-03 -8.89e-03 6.14e-03 1.84e-02  
## 1467 2.74e-02 -1.32e-02 2.60e-02 -7.49e-03 1.13e-02 -5.40e-03 6.57e-02  
## 1468 -1.36e-02 -1.31e-03 8.88e-03 1.06e-02 -1.71e-02 1.76e-03 -5.22e-02  
## 1469 8.76e-03 7.14e-03 4.15e-03 -5.82e-03 -3.48e-03 1.00e-02 -4.49e-02  
## 1470 -1.37e-02 -1.50e-02 -4.90e-03 -1.51e-02 4.61e-04 3.74e-03 5.27e-02  
## 1471 -1.07e-04 6.59e-03 8.47e-03 1.63e-04 1.40e-03 6.37e-03 2.32e-02  
## 1472 -2.45e-03 -4.86e-03 4.25e-03 3.37e-03 -1.04e-02 8.61e-03 2.11e-02  
## 1473 1.18e-02 7.31e-04 1.33e-02 -2.16e-02 5.20e-04 -3.16e-02 -1.11e-01  
## 1474 1.10e-02 1.86e-02 4.52e-03 -1.07e-02 3.96e-03 3.92e-03 -6.34e-02  
## 1475 -8.09e-03 2.86e-03 -7.97e-03 6.33e-03 -3.33e-03 -1.85e-03 4.75e-02  
## 1476 6.30e-03 3.05e-04 5.62e-03 8.21e-03 6.12e-03 -3.16e-03 2.69e-02  
## 1477 1.05e-03 -4.46e-04 2.05e-03 -1.78e-04 -5.69e-05 1.36e-03 -8.57e-03  
## 1478 -1.54e-02 4.16e-04 -5.88e-03 7.04e-03 1.70e-02 -2.74e-02 9.45e-02  
## 1479 3.84e-04 1.23e-04 2.13e-04 3.98e-05 9.71e-05 7.59e-05 -8.64e-04  
## 1480 6.47e-04 9.62e-03 -2.58e-03 5.53e-03 -5.30e-04 1.01e-02 2.79e-02  
## 1481 8.62e-03 -1.01e-04 1.17e-03 -3.84e-03 -3.39e-03 6.17e-03 -3.69e-02  
## 1482 -4.72e-03 2.90e-03 2.10e-02 2.18e-02 1.68e-02 -2.11e-04 -9.18e-02  
## 1483 -1.88e-03 3.81e-03 -3.64e-03 8.97e-03 -2.41e-05 8.17e-03 3.92e-02  
## 1484 1.99e-03 3.63e-04 1.03e-02 8.78e-03 -1.48e-03 4.00e-03 3.76e-02  
## 1485 1.16e-03 1.54e-03 -4.39e-03 4.57e-03 -2.78e-05 -2.01e-03 1.44e-02  
## 1486 6.52e-03 -8.70e-04 -2.75e-03 -4.45e-03 -8.27e-03 1.19e-03 2.43e-02  
## 1487 -2.48e-03 -4.79e-03 4.31e-03 3.46e-03 -1.10e-02 9.39e-03 2.17e-02  
## 1488 -1.76e-02 -2.18e-03 3.16e-03 -4.09e-03 -3.06e-03 8.50e-03 -5.31e-02  
## 1489 1.53e-02 -2.94e-03 -1.27e-02 -2.67e-02 1.98e-02 -1.24e-02 6.99e-02  
## 1490 4.71e-03 -2.14e-02 4.57e-02 -2.18e-02 3.76e-02 -3.46e-02 -1.05e-01  
## 1491 -8.49e-03 -1.32e-02 1.03e-02 -7.83e-03 1.48e-03 7.18e-06 3.22e-02  
## 1492 -3.21e-03 -4.92e-03 -1.09e-02 -2.87e-03 -1.60e-02 1.08e-02 2.69e-02  
## 1493 6.14e-03 -9.78e-03 -4.44e-03 -7.86e-03 5.94e-03 1.38e-03 2.97e-02  
## 1494 -1.33e-02 -3.99e-03 -2.37e-02 -3.11e-03 -1.69e-02 1.17e-03 -5.36e-02  
## 1495 -1.16e-02 -1.61e-02 -2.88e-03 9.86e-03 -7.14e-03 9.07e-03 4.94e-02  
## 1496 -1.89e-02 -1.38e-02 -8.89e-03 -5.49e-03 -4.75e-03 -2.03e-03 5.64e-02  
## 1497 1.20e-04 5.86e-03 9.62e-04 1.94e-03 -1.10e-03 2.41e-03 9.21e-03  
## 1498 2.32e-03 1.41e-03 -5.49e-03 3.90e-03 -1.32e-03 -1.03e-03 2.15e-02  
## 1499 -3.18e-03 1.32e-02 -3.53e-03 -1.91e-02 -2.65e-03 1.30e-02 6.27e-02  
## 1500 1.83e-02 2.15e-03 -1.04e-02 4.75e-03 2.60e-02 2.39e-03 5.19e-02  
## 1501 -8.23e-03 -9.08e-03 4.69e-03 -8.61e-04 -8.69e-03 3.07e-03 -3.58e-02  
## 1502 -1.60e-03 2.45e-03 -2.60e-03 -2.46e-03 4.80e-05 -1.15e-03 1.35e-02  
## 1503 9.23e-05 -1.33e-03 -9.88e-04 7.11e-04 -8.38e-04 2.23e-03 -6.14e-03  
## 1504 -2.27e-02 -7.96e-03 -7.05e-03 -2.48e-02 5.77e-03 -8.86e-03 8.37e-02  
## 1505 -2.03e-02 7.12e-04 1.10e-02 -4.45e-03 -2.34e-02 4.26e-03 -5.86e-02  
## 1506 7.42e-03 -2.20e-03 -5.58e-03 -4.93e-04 3.27e-03 -2.73e-04 -2.24e-02  
## 1507 1.72e-04 -4.80e-04 3.75e-03 2.53e-03 -8.39e-04 4.07e-03 -1.00e-02  
## 1508 3.17e-02 -8.31e-04 -8.71e-03 6.07e-03 1.99e-02 -8.86e-03 7.82e-02  
## 1509 -1.04e-02 -1.29e-02 1.38e-02 -1.37e-02 1.42e-02 -3.11e-02 -8.09e-02  
## 1510 1.79e-04 -7.15e-04 -1.82e-03 7.66e-04 -2.69e-03 5.52e-03 -1.40e-02  
## 1511 -1.05e-02 -8.23e-06 -6.06e-03 4.37e-03 -6.11e-03 -1.33e-03 2.88e-02  
## 1512 -1.82e-02 -6.48e-03 3.71e-02 6.35e-03 1.63e-02 -1.57e-02 8.13e-02  
## 1513 -4.40e-03 2.58e-03 -5.06e-03 8.19e-03 2.84e-03 8.10e-03 4.26e-02  
## 1514 -2.26e-03 -5.31e-03 4.29e-03 -7.59e-03 -9.89e-03 7.73e-03 1.99e-02  
## 1515 4.27e-02 -1.02e-03 1.90e-02 1.53e-03 1.76e-02 -4.26e-03 -1.02e-01  
## 1516 -3.11e-03 -5.35e-03 -1.15e-02 5.35e-03 -1.66e-02 1.08e-02 3.27e-02  
## 1517 5.30e-04 -2.05e-04 9.55e-04 5.79e-04 -3.23e-04 -1.07e-03 4.33e-03  
## 1518 5.77e-02 3.28e-02 2.42e-02 3.97e-02 3.33e-02 1.97e-02 -1.28e-01  
## 1519 2.76e-03 -1.82e-04 1.19e-02 9.68e-03 -3.86e-03 8.98e-03 3.61e-02  
## 1520 -2.19e-03 -1.64e-02 -1.54e-03 -8.75e-04 -7.10e-03 8.44e-03 3.22e-02  
## 1521 -1.87e-03 -6.20e-03 3.49e-03 3.64e-03 -7.43e-03 6.11e-03 1.92e-02  
## 1522 -2.16e-02 3.43e-03 3.85e-02 2.14e-03 3.33e-02 -3.69e-02 9.46e-02  
## 1523 1.08e-04 5.57e-04 -2.55e-03 4.39e-03 -4.26e-03 8.82e-03 -1.77e-02  
## 1524 -2.69e-02 -4.31e-03 -1.02e-02 2.85e-03 -1.02e-02 4.80e-03 4.97e-02  
## 1525 2.01e-04 -1.20e-03 -1.50e-03 3.04e-03 -1.04e-03 3.75e-03 -9.93e-03  
## 1526 2.04e-02 9.97e-03 -2.41e-02 1.38e-02 -3.09e-02 2.57e-02 -8.61e-02  
## 1527 -2.72e-03 -1.22e-02 -7.62e-03 1.88e-03 -8.77e-03 -2.70e-03 2.41e-02  
## 1528 -2.01e-03 -5.81e-03 3.35e-03 -5.44e-03 -7.08e-03 3.96e-03 1.50e-02  
## 1529 -2.14e-02 2.88e-03 -2.52e-02 -3.84e-03 -3.10e-02 6.25e-03 -6.64e-02  
## 1530 9.51e-05 1.10e-04 -2.22e-03 3.25e-04 -3.53e-03 7.39e-03 -1.50e-02  
## 1531 9.87e-05 -5.18e-03 1.20e-02 1.42e-03 -8.83e-03 -8.59e-03 5.35e-02  
## 1532 -1.01e-02 -2.56e-03 7.15e-03 5.80e-03 3.31e-03 -1.44e-03 -2.59e-02  
## 1533 6.77e-04 -5.50e-04 6.24e-04 -8.27e-04 8.13e-04 -4.25e-04 -3.55e-03  
## 1534 1.18e-02 -7.12e-04 -2.17e-02 -2.11e-03 -1.39e-02 2.07e-02 -5.10e-02  
## 1535 1.69e-03 -2.82e-03 8.54e-03 -2.81e-04 -1.76e-03 4.59e-03 3.43e-02  
## 1536 8.55e-03 -1.17e-02 -3.78e-03 -5.31e-04 5.61e-03 1.89e-03 3.07e-02  
## 1537 2.92e-04 -1.49e-04 -2.37e-03 3.92e-03 -3.12e-03 7.92e-03 -1.64e-02  
## 1538 2.42e-05 1.59e-03 -1.94e-03 6.26e-04 2.66e-05 -9.27e-04 4.38e-03  
## 1539 -1.58e-02 -5.35e-03 -2.31e-02 -1.51e-03 -2.88e-02 4.81e-04 -5.79e-02  
## 1540 4.93e-03 -8.09e-03 -9.35e-03 1.31e-02 -5.18e-03 -1.56e-04 4.19e-02  
## 1541 6.99e-05 1.28e-02 -3.29e-03 -7.28e-03 -1.20e-06 9.14e-03 2.92e-02  
## 1542 1.27e-04 -1.18e-03 -1.48e-03 2.94e-03 -1.32e-03 3.61e-03 -9.34e-03  
## 1543 1.10e-03 -3.51e-03 7.69e-03 -2.22e-02 7.36e-03 -3.46e-02 -9.26e-02  
## 1544 2.28e-02 -1.36e-02 2.04e-02 4.18e-03 2.14e-02 -3.82e-03 5.94e-02  
## 1545 -5.75e-03 -9.16e-03 1.95e-02 -1.68e-02 1.27e-02 -1.91e-02 -6.52e-02  
## 1546 2.45e-02 1.16e-02 -1.15e-02 5.87e-03 1.94e-02 -1.80e-02 1.00e-01  
## 1547 1.82e-05 7.28e-03 1.76e-03 3.50e-03 -1.85e-03 1.15e-03 1.38e-02  
## 1548 -5.74e-03 1.01e-02 7.00e-03 -7.56e-03 -1.45e-03 -2.22e-03 2.74e-02  
## 1549 1.41e-02 -1.47e-02 -6.36e-03 -1.27e-02 1.21e-02 6.68e-05 4.77e-02  
## 1550 -1.75e-03 -7.32e-03 3.26e-03 4.19e-03 -4.10e-03 -9.86e-05 1.41e-02  
## 1551 7.46e-03 -2.24e-03 1.43e-02 3.09e-02 -1.74e-03 -1.90e-02 -1.12e-01  
## 1552 -2.32e-02 1.41e-03 -2.57e-02 -1.56e-03 -3.06e-02 2.77e-02 -7.57e-02  
## 1553 1.21e-03 -6.00e-03 -9.35e-03 2.09e-03 -6.69e-03 -8.69e-03 4.21e-02  
## 1554 1.89e-02 2.02e-03 5.56e-03 7.95e-03 -9.31e-03 1.75e-02 -5.80e-02  
## 1555 -2.38e-03 -5.01e-03 4.47e-03 3.66e-03 -1.06e-02 9.03e-03 2.17e-02  
## 1556 4.50e-03 -9.58e-04 3.54e-03 -4.81e-03 2.03e-03 -8.63e-04 1.75e-02  
## 1557 -1.02e-02 -8.40e-03 6.75e-03 -8.50e-04 -1.42e-02 4.06e-03 -3.61e-02  
## 1558 4.93e-03 -6.37e-03 7.65e-03 7.67e-03 1.93e-03 4.70e-03 4.05e-02  
## 1559 1.74e-02 1.13e-02 3.00e-02 2.45e-04 2.86e-02 1.46e-04 7.19e-02  
## 1560 7.65e-03 -2.81e-03 1.19e-03 -1.90e-03 -3.90e-03 9.13e-03 -3.00e-02  
## 1561 1.23e-02 -1.17e-02 -4.85e-03 7.00e-03 7.95e-03 2.90e-03 4.08e-02  
## 1562 7.02e-04 -8.52e-04 8.27e-04 8.85e-04 8.45e-04 -5.71e-04 -4.47e-03  
## 1563 -2.18e-02 -7.29e-03 -1.07e-02 -1.18e-02 -2.15e-02 -6.21e-03 6.74e-02  
## 1564 -1.82e-02 -8.35e-03 -3.95e-03 8.59e-03 1.27e-02 -5.88e-02 1.16e-01  
## 1565 3.44e-03 -4.26e-03 1.10e-02 1.22e-03 -4.99e-04 6.62e-03 3.54e-02  
## 1566 8.22e-06 3.48e-04 9.03e-05 -3.71e-04 -6.77e-05 1.41e-04 7.60e-04  
## 1567 -2.19e-03 -5.06e-03 3.40e-03 2.73e-03 -8.66e-03 8.22e-03 2.14e-02  
## 1568 -5.03e-03 -7.28e-03 -2.57e-02 1.64e-03 1.51e-02 -2.13e-02 -8.31e-02  
## 1569 -7.15e-03 1.47e-03 -6.06e-03 5.27e-03 8.50e-03 -1.39e-03 3.30e-02  
## 1570 -5.39e-04 9.77e-04 1.52e-03 2.41e-03 -2.21e-03 2.41e-03 1.01e-02  
## 1571 9.50e-03 5.59e-02 -4.99e-02 -2.04e-02 2.86e-03 -3.35e-02 -1.39e-01  
## 1572 2.11e-04 -1.92e-04 -2.19e-04 -2.19e-04 -1.54e-04 -1.50e-04 1.37e-03  
## 1573 7.13e-03 -1.08e-02 -3.04e-02 3.16e-02 -3.20e-02 2.12e-02 -9.52e-02  
## 1574 -1.91e-02 8.32e-03 1.72e-02 -2.14e-02 1.53e-02 1.47e-03 -8.69e-02  
## 1575 1.73e-02 -4.26e-03 4.85e-03 -2.87e-03 -1.10e-02 4.33e-03 -4.89e-02  
## 1576 -2.14e-02 1.36e-02 1.65e-02 -1.75e-02 -1.09e-02 -5.66e-03 6.42e-02  
## 1577 6.25e-03 -6.55e-03 -9.03e-03 1.20e-02 -2.57e-04 -3.14e-05 4.79e-02  
## 1578 2.40e-03 -1.02e-03 2.70e-03 -2.50e-03 -8.09e-04 1.62e-05 1.04e-02  
## 1579 2.69e-03 5.15e-04 -1.24e-02 -1.21e-02 -1.48e-02 1.09e-02 5.58e-02  
## 1580 -4.18e-03 8.95e-03 -4.08e-03 -5.85e-03 -2.44e-03 -3.21e-03 3.34e-02  
## 1581 -5.36e-03 -1.42e-03 5.62e-03 -1.56e-03 -3.44e-03 -1.31e-03 1.91e-02  
## 1582 2.06e-04 8.68e-04 -8.22e-04 -1.06e-03 -1.12e-04 2.05e-03 4.75e-03  
## 1583 4.27e-06 -3.78e-04 -2.65e-04 6.12e-04 9.94e-06 3.14e-04 -1.59e-03  
## 1584 -4.48e-03 5.85e-03 -2.34e-03 9.36e-03 -1.51e-04 6.12e-03 5.25e-02  
## 1585 1.31e-02 4.65e-04 -1.03e-02 1.68e-03 -2.13e-02 -7.47e-03 7.60e-02  
## 1586 6.58e-05 -6.60e-04 -1.64e-03 -2.45e-03 -2.59e-03 5.24e-03 -1.15e-02  
## 1587 -1.86e-03 -6.27e-03 3.53e-03 -5.22e-03 -6.33e-03 3.14e-03 1.48e-02  
## 1588 -3.58e-02 2.24e-02 9.76e-03 8.57e-03 -1.51e-02 -1.40e-02 -8.82e-02  
## 1589 -2.08e-03 -5.42e-03 3.04e-03 2.94e-03 -8.09e-03 6.75e-03 1.87e-02  
## 1590 5.08e-05 -6.55e-04 -1.26e-03 2.25e-03 -5.22e-04 2.48e-03 -8.32e-03  
## 1591 -9.76e-03 -1.07e-02 6.55e-03 -7.97e-04 -1.41e-02 7.18e-03 -5.08e-02  
## 1592 1.97e-02 1.26e-02 -1.30e-02 2.12e-03 3.00e-02 -1.03e-03 6.99e-02  
## 1593 1.43e-02 1.43e-02 -5.50e-03 -7.85e-03 4.63e-03 -6.46e-04 3.30e-02  
## 1594 -1.59e-06 6.27e-04 1.75e-04 -6.45e-04 -1.43e-04 1.40e-04 1.42e-03  
## 1595 1.83e-03 -1.51e-03 2.63e-03 2.71e-03 2.84e-03 -1.74e-03 -1.27e-02  
## 1596 -1.30e-02 -4.44e-03 3.09e-03 -1.26e-03 -5.13e-03 1.16e-02 -3.84e-02  
## 1597 2.42e-02 8.07e-03 -5.93e-03 8.63e-03 6.32e-03 4.82e-04 4.73e-02  
## 1598 1.16e-02 8.06e-03 5.15e-03 -5.99e-03 -1.11e-02 1.36e-04 -5.48e-02  
## 1599 4.87e-02 9.85e-03 1.75e-02 3.56e-02 2.80e-02 2.45e-03 -9.75e-02  
## 1600 9.47e-03 -1.63e-03 6.81e-03 -2.06e-04 2.36e-03 4.83e-03 1.90e-02  
## 1601 9.97e-05 -5.46e-04 1.68e-03 1.71e-04 -4.20e-04 2.04e-03 -4.59e-03  
## 1602 1.40e-04 6.43e-04 -5.94e-04 1.26e-05 9.13e-05 1.37e-03 4.21e-03  
## 1603 2.44e-02 3.49e-03 5.71e-03 2.55e-02 -1.09e-02 1.75e-02 -8.37e-02  
## 1604 -1.10e-03 3.29e-03 -8.26e-03 4.69e-03 -6.04e-03 3.15e-03 1.70e-02  
## 1605 -9.63e-04 -1.90e-03 -4.88e-03 6.65e-03 1.34e-03 3.31e-03 3.25e-02  
## 1606 -3.30e-03 -5.06e-03 -3.53e-03 1.03e-03 -3.63e-03 1.44e-03 -1.77e-02  
## 1607 2.29e-03 -1.49e-03 2.89e-03 2.69e-03 5.17e-03 -1.59e-03 -1.18e-02  
## 1608 -5.03e-02 5.29e-03 -4.31e-02 -2.75e-02 -3.61e-02 -2.88e-02 -1.36e-01  
## 1609 -1.48e-03 -6.72e-03 2.52e-03 3.66e-03 -2.74e-03 -1.44e-03 1.18e-02  
## 1610 8.20e-04 -5.09e-04 6.27e-04 5.38e-04 -3.83e-04 4.98e-04 -3.13e-03  
## 1611 -4.68e-04 -1.29e-03 -2.48e-03 -2.45e-03 -1.07e-03 -1.78e-03 7.00e-03  
## 1612 1.01e-05 -4.02e-04 8.24e-04 -7.79e-04 -1.23e-04 5.48e-04 -1.91e-03  
## 1613 3.98e-03 -1.00e-02 8.81e-03 2.73e-03 -4.19e-03 -2.68e-03 3.29e-02  
## 1614 1.27e-02 1.42e-03 2.28e-03 -4.90e-03 -4.39e-03 8.11e-03 -5.51e-02  
## 1615 4.36e-03 -2.20e-03 3.48e-03 -2.40e-04 2.64e-03 3.90e-05 -1.32e-02  
## 1616 6.54e-03 -3.91e-03 1.09e-02 -1.98e-02 -2.34e-03 1.45e-02 5.16e-02  
## 1617 -2.78e-02 7.91e-03 5.00e-03 -8.46e-03 -1.09e-02 -3.40e-03 -5.84e-02  
## 1618 -9.36e-04 -1.96e-04 5.43e-04 8.34e-04 1.38e-05 -3.31e-04 2.36e-03  
## 1619 -3.35e-03 2.14e-02 -4.21e-03 -1.08e-02 3.43e-03 7.64e-03 4.16e-02  
## 1620 1.06e-02 -1.00e-02 7.16e-03 -1.85e-02 4.16e-04 -1.86e-02 -8.48e-02  
## 1621 -1.80e-02 -2.03e-03 9.81e-03 2.58e-02 -1.91e-02 4.70e-03 -6.65e-02  
## 1622 1.10e-03 -7.39e-03 7.06e-03 -1.06e-02 -3.98e-03 -1.45e-03 2.81e-02  
## 1623 1.61e-02 6.91e-03 -1.10e-02 2.03e-02 2.75e-02 -9.06e-03 6.37e-02  
## 1624 2.85e-02 -3.72e-03 -3.39e-03 1.04e-02 4.65e-03 -9.06e-03 7.81e-02  
## 1625 5.75e-03 -3.41e-03 -3.86e-03 3.73e-03 1.82e-04 5.10e-04 -1.87e-02  
## 1626 -1.24e-02 -1.40e-02 -2.89e-03 1.05e-02 -1.14e-02 -5.75e-03 6.54e-02  
## 1627 -1.54e-02 2.45e-03 8.87e-03 2.31e-02 -8.10e-03 1.10e-02 -7.60e-02  
## 1628 6.10e-03 -1.21e-02 7.41e-03 5.66e-03 -1.47e-03 -7.38e-03 -7.14e-02  
## 1629 2.98e-03 2.52e-03 1.31e-02 -1.57e-03 -6.08e-03 1.29e-02 3.84e-02  
## 1630 -3.23e-04 3.74e-04 5.03e-04 4.13e-04 2.58e-04 -4.14e-04 2.30e-03  
## 1631 -1.84e-02 2.52e-02 -1.35e-02 1.26e-03 -1.07e-02 -6.47e-03 6.75e-02  
## 1632 -4.81e-04 -1.24e-03 1.27e-03 -2.26e-03 -1.06e-03 -1.47e-03 5.94e-03  
## 1633 1.93e-03 -1.75e-03 2.57e-03 -7.09e-05 3.29e-03 -2.63e-03 1.14e-02  
## 1634 6.69e-03 6.08e-03 -2.96e-03 3.47e-04 4.09e-03 3.78e-03 1.68e-02  
## 1635 -4.93e-03 -8.16e-04 1.70e-02 -3.03e-03 1.99e-02 -1.56e-02 -8.13e-02  
## 1636 -4.84e-04 2.54e-03 1.99e-03 2.84e-03 -3.64e-03 4.91e-03 1.37e-02  
## 1637 3.35e-03 -1.44e-03 3.77e-03 3.41e-03 6.85e-03 -1.10e-03 -1.48e-02  
## 1638 -1.61e-03 -7.44e-03 3.05e-03 4.38e-03 -3.93e-03 -6.12e-04 1.51e-02  
## 1639 -1.18e-02 -1.64e-02 -6.91e-03 7.16e-03 9.90e-03 -2.21e-03 5.64e-02  
## 1640 1.38e-02 1.89e-02 7.24e-03 -2.77e-02 -3.09e-03 2.26e-02 -7.69e-02  
## 1641 -2.69e-02 9.27e-03 3.32e-03 -9.97e-03 -2.35e-03 -6.85e-03 -6.66e-02  
## 1642 -1.09e-03 1.72e-03 -2.04e-03 -3.72e-03 -3.21e-04 1.27e-03 -8.83e-03  
## 1643 -2.28e-02 2.85e-04 7.43e-03 2.65e-02 -1.69e-02 2.79e-03 -6.24e-02  
## 1644 1.06e-02 -1.43e-02 -5.26e-03 8.29e-03 4.64e-03 6.78e-03 4.89e-02  
## 1645 2.53e-03 -7.42e-03 -6.84e-03 1.05e-02 -2.57e-03 -3.41e-03 3.21e-02  
## 1646 1.60e-02 -4.59e-03 -1.78e-02 -1.15e-02 -1.75e-02 1.12e-02 -4.45e-02  
## 1647 -1.45e-02 -7.45e-03 4.00e-03 -3.18e-04 -9.53e-03 5.53e-03 -4.02e-02  
## 1648 6.43e-03 -6.76e-03 8.97e-03 1.02e-02 5.65e-04 1.50e-03 4.66e-02  
## 1649 -4.00e-05 -9.26e-04 -7.84e-04 -2.40e-03 -1.10e-03 2.25e-03 -5.82e-03  
## 1650 -6.96e-04 3.31e-03 1.71e-03 2.19e-03 -4.78e-03 6.35e-03 1.47e-02  
## 1651 -6.84e-03 5.62e-04 -2.41e-02 -2.01e-02 6.22e-03 -2.28e-02 -8.72e-02  
## 1652 8.27e-03 -1.07e-02 9.97e-03 4.96e-03 4.77e-03 1.11e-03 3.09e-02  
## 1653 -3.18e-03 -1.19e-02 -8.08e-03 1.64e-03 -1.03e-02 -3.09e-03 2.51e-02  
## 1654 1.13e-02 4.60e-02 -4.01e-02 7.53e-03 -2.65e-03 -1.14e-02 -1.08e-01  
## 1655 3.80e-03 -1.98e-03 -3.03e-03 -4.00e-05 1.60e-04 -5.96e-04 -1.22e-02  
## 1656 -1.78e-03 -9.42e-03 3.43e-03 1.75e-03 -3.49e-03 -4.50e-03 1.64e-02  
## 1657 -3.40e-03 -1.78e-02 1.93e-04 -1.17e-02 -1.42e-02 1.78e-02 4.98e-02  
## 1658 -1.35e-02 -7.82e-03 9.49e-03 -8.69e-04 -2.10e-02 1.36e-04 -4.04e-02  
## 1659 1.16e-02 2.18e-02 3.99e-03 -1.32e-02 1.91e-03 -1.33e-02 -7.28e-02  
## 1660 1.21e-02 2.29e-02 -3.86e-02 2.61e-02 -5.80e-03 -1.31e-02 -8.42e-02  
## 1661 2.08e-02 1.02e-02 -1.10e-02 4.70e-03 2.78e-02 -5.50e-03 6.45e-02  
## 1662 2.56e-04 7.92e-03 1.22e-03 2.25e-03 -1.79e-03 4.05e-03 1.22e-02  
## 1663 -1.91e-03 5.05e-03 -9.83e-03 -7.16e-03 -1.19e-02 4.93e-03 2.61e-02  
## 1664 -5.72e-03 -1.93e-02 -4.03e-03 7.41e-03 -2.26e-03 -6.14e-03 4.23e-02  
## 1665 1.85e-02 9.26e-03 -1.09e-02 -1.57e-02 2.22e-02 -3.71e-03 6.34e-02  
## 1666 -7.67e-03 -4.47e-03 1.91e-02 -1.72e-02 1.83e-02 -1.07e-02 -1.00e-01  
## 1667 -6.52e-04 -1.30e-03 -1.50e-03 -2.60e-03 -7.47e-04 3.48e-03 1.05e-02  
## 1668 -7.00e-03 -1.96e-03 -5.87e-03 -8.93e-04 -1.84e-03 2.73e-03 -2.59e-02  
## 1669 1.51e-02 4.21e-02 8.63e-03 2.80e-02 9.36e-03 1.78e-02 -9.89e-02  
## 1670 8.81e-05 4.97e-03 1.27e-03 2.91e-03 -1.18e-03 9.87e-04 1.07e-02  
## 1671 -2.86e-02 6.84e-03 7.66e-03 -6.62e-03 -1.56e-02 -4.44e-03 -6.22e-02  
## 1672 1.55e-02 7.12e-03 -1.38e-02 3.38e-03 2.57e-02 -1.59e-02 7.61e-02  
## 1673 1.58e-04 1.10e-02 1.79e-03 3.32e-03 -3.44e-03 4.94e-03 2.05e-02  
## 1674 -3.07e-03 -1.93e-03 -2.15e-03 2.75e-04 -1.72e-03 3.92e-03 1.78e-02  
## 1675 3.55e-03 3.67e-03 -1.27e-02 1.31e-02 -1.13e-02 1.34e-02 6.69e-02  
## 1676 -6.19e-04 -2.32e-03 -3.17e-03 3.65e-03 -1.21e-03 -3.08e-03 9.28e-03  
## 1677 6.56e-05 -2.05e-04 -1.40e-03 -5.05e-05 -7.54e-04 3.83e-03 -8.16e-03  
## 1678 4.22e-04 -4.77e-04 4.73e-04 -5.35e-04 7.07e-04 -1.82e-04 -2.20e-03  
## 1679 2.43e-06 3.82e-04 8.81e-05 -2.04e-04 -6.01e-05 1.25e-04 7.51e-04  
## 1680 2.70e-03 -9.59e-03 1.08e-02 1.22e-02 -1.21e-03 5.56e-04 4.06e-02  
## 1681 1.80e-02 -1.86e-04 -8.44e-03 6.97e-03 1.73e-02 5.83e-03 6.51e-02  
## 1682 -6.80e-03 2.80e-02 2.16e-02 -1.10e-02 2.06e-02 7.81e-03 -1.12e-01  
## 1683 -9.27e-04 2.78e-03 3.23e-03 4.54e-03 -5.58e-03 3.70e-03 2.05e-02  
## 1684 4.69e-06 1.91e-04 7.06e-05 1.87e-04 3.74e-05 -7.00e-05 4.80e-04  
## 1685 -1.62e-02 -1.00e-02 1.50e-02 1.21e-02 -5.39e-03 -1.15e-02 6.85e-02  
## 1686 1.03e-02 -1.17e-02 -2.27e-03 -2.72e-04 -2.53e-04 6.29e-03 2.83e-02  
## 1687 1.31e-04 -9.98e-04 -1.62e-03 8.45e-04 -2.22e-03 4.75e-03 -1.08e-02  
## 1688 6.93e-03 5.77e-03 -8.69e-03 -3.74e-03 6.22e-03 1.68e-03 3.74e-02  
## 1689 -3.34e-04 -1.36e-03 -2.72e-03 2.94e-05 2.25e-04 -3.54e-03 -7.74e-03  
## 1690 -2.00e-02 -6.99e-03 1.30e-02 2.64e-03 1.43e-02 -2.32e-02 -7.74e-02  
## 1691 4.12e-03 -1.22e-03 -2.68e-03 2.73e-03 -2.40e-03 -7.84e-04 1.52e-02  
## 1692 1.53e-02 -5.23e-03 4.54e-03 -1.33e-03 -1.10e-02 8.79e-03 -3.61e-02  
## 1693 -9.75e-03 -2.51e-03 -5.61e-03 2.57e-04 -5.94e-04 1.52e-03 -2.41e-02  
## 1694 2.36e-03 1.81e-03 -1.07e-03 1.40e-03 1.76e-03 1.62e-03 6.49e-03  
## 1695 -5.75e-04 -1.01e-03 -4.38e-03 4.07e-03 -1.65e-03 -1.71e-03 1.03e-02  
## 1696 3.22e-05 -1.37e-03 -7.54e-04 1.99e-03 -2.85e-04 9.55e-04 -4.70e-03  
## 1697 6.35e-03 7.87e-03 1.07e-02 6.92e-04 1.02e-02 -2.95e-02 -9.66e-02  
## 1698 1.19e-02 1.11e-02 6.15e-03 2.18e-02 -3.27e-03 1.86e-02 -6.83e-02  
## 1699 6.46e-03 -3.23e-03 -9.89e-03 4.70e-04 -3.42e-03 4.77e-03 5.05e-02  
## 1700 7.33e-03 -3.05e-04 3.53e-03 -1.36e-03 -8.98e-03 1.74e-02 -4.11e-02  
## 1701 1.12e-02 -1.39e-02 1.38e-02 6.78e-03 3.09e-03 1.72e-03 4.12e-02  
## 1702 5.30e-03 2.69e-03 -1.40e-03 1.95e-05 6.64e-04 2.54e-03 9.62e-03  
## 1703 2.08e-02 7.06e-03 2.92e-02 1.63e-03 2.70e-02 -9.20e-03 8.31e-02  
## 1704 2.63e-02 1.29e-02 1.47e-02 -1.34e-03 1.96e-02 2.03e-02 -8.11e-02  
## 1705 1.28e-02 2.01e-02 -7.80e-03 -3.76e-03 -6.99e-03 -1.22e-03 4.70e-02  
## 1706 2.07e-02 -3.36e-03 -1.25e-02 4.51e-03 2.09e-02 -2.19e-02 8.25e-02  
## 1707 1.25e-05 -4.72e-05 2.22e-04 -9.42e-06 8.46e-07 3.12e-04 -6.85e-04  
## 1708 3.77e-03 1.16e-02 -8.46e-03 4.21e-03 -4.61e-03 6.93e-04 3.71e-02  
## 1709 1.05e-03 -5.73e-03 4.02e-03 -3.35e-03 -1.67e-03 -1.07e-03 1.40e-02  
## 1710 1.55e-03 7.25e-04 -1.12e-03 3.71e-05 8.18e-04 -2.21e-06 -4.22e-03  
## 1711 -3.34e-05 -1.26e-03 -6.28e-04 -2.02e-03 -6.15e-04 1.01e-03 -4.73e-03  
## 1712 -3.05e-02 2.14e-04 -1.16e-02 -1.32e-02 -1.40e-02 6.89e-03 5.41e-02  
## 1713 1.82e-04 -1.03e-04 -2.10e-03 1.21e-04 -3.07e-03 7.62e-03 -1.46e-02  
## 1714 -6.05e-04 1.08e-03 1.82e-03 -5.81e-03 -3.06e-03 2.47e-03 9.77e-03  
## 1715 -1.57e-02 -6.83e-03 -7.84e-03 4.98e-03 3.23e-02 -6.11e-02 1.08e-01  
## 1716 2.83e-02 1.40e-02 -6.38e-03 -4.03e-02 1.55e-02 -2.11e-02 1.05e-01  
## 1717 -1.41e-02 -1.99e-03 1.32e-02 1.37e-02 -2.39e-02 6.09e-03 -6.24e-02  
## 1718 -6.88e-03 6.16e-04 -5.62e-03 -2.08e-03 -3.21e-03 -4.29e-03 3.95e-02  
## 1719 2.34e-04 6.20e-03 8.48e-04 1.83e-03 -1.33e-03 3.58e-03 1.06e-02  
## 1720 -2.24e-02 4.08e-03 4.40e-02 4.29e-03 3.02e-02 -3.50e-02 1.06e-01  
## 1721 -2.23e-02 2.58e-03 -3.34e-03 8.07e-03 5.41e-03 -1.70e-02 8.70e-02  
## 1722 2.82e-03 -7.63e-03 1.25e-02 3.79e-03 -4.47e-03 1.73e-03 3.95e-02  
## 1723 8.47e-03 -1.13e-02 -6.05e-03 4.33e-03 -1.10e-02 -6.40e-03 4.39e-02  
## 1724 -1.92e-04 2.89e-04 2.75e-04 -3.29e-04 -3.42e-05 -5.65e-05 1.11e-03  
## 1725 3.44e-03 -6.16e-04 3.22e-03 -2.39e-03 1.90e-03 1.34e-03 1.04e-02  
## 1726 -1.23e-02 -5.38e-03 1.18e-02 5.86e-04 2.00e-02 -2.95e-03 -6.68e-02  
## 1727 -1.06e-02 -1.02e-02 6.41e-03 -6.42e-04 -1.32e-02 -5.20e-04 -4.11e-02  
## 1728 -4.23e-03 1.36e-03 1.71e-02 7.31e-03 1.16e-03 9.48e-03 4.37e-02  
## 1729 -2.55e-03 -4.60e-03 3.98e-03 3.09e-03 -1.08e-02 8.96e-03 2.09e-02  
## 1730 2.00e-02 -4.60e-06 1.02e-02 4.16e-04 1.33e-02 -8.93e-03 -6.95e-02  
## 1731 -3.16e-04 -1.24e-03 -3.49e-03 2.41e-03 -2.32e-04 -4.00e-03 -9.92e-03  
## 1732 1.05e-02 2.03e-02 -1.82e-02 -1.46e-02 4.68e-02 -3.98e-02 -9.18e-02  
## 1733 3.75e-03 2.34e-03 -1.26e-02 1.31e-02 -9.57e-03 1.16e-02 5.01e-02  
## 1734 6.12e-03 -1.18e-03 -2.10e-03 -3.20e-03 1.34e-03 3.66e-03 1.59e-02  
## 1735 -1.27e-02 -9.35e-03 9.11e-03 -9.83e-05 -2.02e-02 3.71e-04 -3.88e-02  
## 1736 -1.56e-03 -7.42e-03 -4.22e-03 -5.16e-03 -3.60e-03 -1.93e-03 1.35e-02  
## 1737 -2.85e-02 -5.84e-03 -9.45e-03 -2.26e-02 -1.96e-02 -7.96e-03 6.55e-02  
## 1738 -1.76e-02 -6.37e-03 4.43e-03 2.25e-02 -1.60e-02 1.34e-02 -5.47e-02  
## 1739 9.14e-05 -4.02e-04 -9.45e-04 1.16e-04 -4.87e-04 2.66e-03 -5.66e-03  
## 1740 -4.74e-03 3.85e-03 -5.74e-03 -1.26e-02 4.74e-03 -4.09e-03 4.26e-02  
## 1741 2.99e-05 -6.33e-04 1.54e-03 2.57e-04 -2.01e-04 1.16e-03 -3.52e-03  
## 1742 1.14e-04 6.70e-04 -4.45e-04 -6.67e-04 -1.34e-04 1.08e-03 2.92e-03  
## 1743 1.74e-02 -3.04e-03 5.15e-03 1.96e-02 -1.10e-02 7.52e-03 -4.99e-02  
## 1744 -5.38e-06 -1.21e-03 -9.53e-04 5.38e-04 -6.76e-04 1.87e-03 -5.84e-03  
## 1745 -5.05e-03 -1.96e-02 -1.59e-03 8.97e-03 -9.88e-03 4.26e-03 5.26e-02  
## 1746 -3.23e-03 1.15e-02 -5.12e-03 -7.28e-03 9.45e-03 2.62e-03 3.14e-02  
## 1747 -2.25e-02 4.52e-03 5.77e-03 -4.09e-03 -1.51e-02 1.50e-02 -5.88e-02  
## 1748 1.67e-03 3.22e-03 3.67e-03 -2.65e-03 2.39e-04 1.71e-03 1.63e-02  
## 1749 1.30e-03 8.59e-04 -5.23e-04 -5.36e-04 3.28e-04 7.29e-04 3.38e-03  
## 1750 -2.02e-03 -5.86e-04 -1.20e-03 -2.73e-04 -1.78e-03 2.32e-04 6.80e-03  
## 1751 2.09e-03 -4.41e-03 -8.53e-03 1.41e-03 -6.10e-03 -1.08e-03 3.55e-02  
## 1752 -5.25e-03 -1.38e-03 7.86e-03 -7.11e-03 -5.32e-03 -4.61e-04 2.72e-02  
## 1753 4.78e-03 5.25e-03 -2.52e-03 -3.26e-03 5.41e-03 1.90e-03 1.42e-02  
## 1754 1.54e-04 -6.29e-04 -2.09e-03 3.53e-03 -2.33e-03 5.94e-03 -1.36e-02  
## 1755 -1.94e-03 -6.63e-03 3.18e-03 3.79e-03 -5.53e-03 1.77e-03 1.43e-02  
## 1756 2.65e-03 -5.13e-04 4.04e-03 -4.32e-03 -1.80e-04 -3.92e-04 1.63e-02  
## 1757 -6.58e-05 6.45e-04 -1.12e-03 -1.97e-04 -2.61e-04 -9.10e-04 3.00e-03  
## 1758 2.24e-02 -1.09e-02 -4.73e-03 -2.07e-02 5.41e-03 -3.77e-04 6.07e-02  
## 1759 3.83e-03 5.30e-03 -1.29e-02 -8.37e-04 -1.03e-02 1.42e-02 4.36e-02  
## 1760 3.63e-03 -1.42e-03 -2.46e-03 -5.43e-03 -2.70e-04 5.53e-04 -1.31e-02  
## 1761 -1.98e-03 -1.24e-05 -3.58e-03 -7.97e-04 -3.14e-03 7.11e-03 2.75e-02  
## 1762 -6.21e-04 1.54e-04 -5.81e-03 4.16e-03 -3.00e-03 7.71e-04 1.24e-02  
## 1763 1.09e-04 6.24e-04 -4.38e-04 5.40e-05 -2.06e-04 1.08e-03 2.55e-03  
## 1764 -3.41e-03 -1.24e-03 2.54e-03 -1.75e-04 -1.89e-04 -5.99e-04 1.03e-02  
## 1765 -7.16e-03 -1.36e-02 -2.36e-03 -6.56e-03 -4.67e-03 8.26e-03 3.28e-02  
## 1766 1.13e-02 1.79e-02 3.86e-03 -1.17e-02 7.17e-03 6.67e-03 -7.54e-02  
## 1767 9.36e-03 -2.44e-03 2.45e-03 -2.18e-03 -7.28e-03 7.13e-03 -3.99e-02  
## 1768 -2.05e-02 -4.45e-03 -2.21e-02 2.36e-04 -2.26e-02 8.21e-03 -5.12e-02  
## 1769 1.90e-04 -3.51e-04 3.56e-03 2.35e-03 -1.03e-03 4.35e-03 -9.83e-03  
## 1770 1.28e-03 -3.78e-04 -1.32e-02 9.62e-03 -6.65e-03 5.68e-03 4.39e-02  
## 1771 4.77e-04 6.22e-03 -3.02e-03 4.40e-03 -1.07e-03 6.64e-03 2.30e-02  
## 1772 -1.43e-04 5.03e-04 -1.40e-03 -9.92e-04 -4.22e-04 -2.08e-03 5.35e-03  
## 1773 3.21e-03 -9.44e-03 -7.62e-03 -5.03e-03 -8.03e-03 4.03e-04 3.81e-02  
## 1774 1.71e-04 1.95e-04 -1.89e-03 9.68e-05 -1.47e-03 5.67e-03 -1.17e-02  
## 1775 2.53e-02 5.27e-03 -1.10e-02 2.64e-03 2.95e-02 -3.47e-02 9.30e-02  
## 1776 6.43e-03 -5.45e-03 -1.86e-02 6.44e-02 2.93e-02 -2.88e-02 -1.21e-01  
## 1777 -2.68e-03 3.87e-03 -2.90e-03 9.51e-03 -7.35e-03 1.17e-02 4.19e-02  
## 1778 -2.78e-02 -1.11e-02 -7.96e-03 5.82e-03 -1.75e-02 -3.71e-03 6.59e-02  
## 1779 -1.36e-02 -7.67e-03 9.77e-03 1.76e-05 -2.45e-02 6.08e-04 -5.10e-02  
## 1780 1.00e-02 2.30e-02 -1.88e-02 -1.63e-02 4.28e-02 -3.43e-02 -8.89e-02  
## 1781 2.17e-03 -1.60e-03 3.17e-03 -6.00e-05 4.47e-03 -2.03e-03 -1.12e-02  
## 1782 -3.08e-02 3.10e-02 1.47e-02 8.95e-03 -2.17e-02 7.97e-03 -1.07e-01  
## 1783 -5.17e-03 8.72e-03 -5.60e-03 -1.67e-02 -3.93e-03 5.50e-03 5.84e-02  
## 1784 2.73e-05 -4.31e-04 8.53e-04 6.72e-04 -1.31e-06 6.91e-04 -2.29e-03  
## 1785 3.51e-03 -1.11e-02 9.12e-03 4.91e-03 5.26e-03 -6.97e-03 3.47e-02  
## 1786 2.42e-02 1.32e-03 -2.64e-02 2.90e-02 -2.12e-02 2.58e-03 -6.62e-02  
## 1787 2.03e-03 7.53e-04 -3.71e-03 5.30e-03 -4.05e-04 -1.78e-03 1.44e-02  
## 1788 4.02e-03 -9.33e-03 -4.52e-03 -8.14e-03 -9.10e-03 -9.44e-04 2.89e-02  
## 1789 2.51e-04 2.84e-04 -2.03e-03 3.05e-03 -1.42e-03 6.04e-03 -1.27e-02  
## 1790 3.03e-03 -8.44e-04 -5.05e-03 -9.12e-03 3.38e-03 -6.39e-04 -1.83e-02  
## 1791 1.80e-02 6.40e-03 -2.43e-02 -2.04e-02 -1.70e-02 1.16e-02 -6.81e-02  
## 1792 -1.98e-02 -1.46e-02 -7.28e-03 -7.32e-03 -1.99e-02 -6.83e-03 6.03e-02  
## 1793 -8.27e-07 6.45e-04 1.91e-04 -3.10e-04 -8.62e-05 7.87e-05 1.25e-03  
## 1794 -7.12e-04 -6.68e-04 2.29e-03 -5.00e-03 -2.69e-03 -5.38e-04 1.05e-02  
## 1795 1.27e-02 1.52e-03 4.94e-03 -3.16e-03 -8.80e-03 1.84e-02 -4.98e-02  
## 1796 2.51e-03 4.68e-03 -1.20e-02 -2.59e-02 -1.35e-02 1.58e-02 4.84e-02  
## 1797 1.70e-02 -2.76e-04 -1.07e-02 2.06e-02 2.45e-02 1.46e-03 5.31e-02  
## 1798 5.87e-03 1.78e-02 3.61e-03 5.89e-03 4.83e-03 1.67e-03 3.53e-02  
## 1799 -5.20e-03 6.87e-03 -5.01e-03 6.19e-03 1.84e-03 -4.07e-03 2.12e-02  
## 1800 -1.11e-03 -6.35e-03 2.11e-03 3.35e-03 -1.96e-03 -1.03e-03 1.07e-02  
## 1801 -4.33e-03 -3.47e-03 -4.33e-03 -4.71e-04 -4.17e-04 9.03e-04 -2.13e-02  
## 1802 -1.53e-05 9.85e-04 3.98e-04 -4.89e-04 -2.25e-04 -1.28e-04 2.62e-03  
## 1803 -1.76e-02 -4.41e-03 -2.13e-02 -8.95e-04 -2.89e-02 8.94e-03 -5.78e-02  
## 1804 -1.39e-02 8.44e-04 7.92e-03 -6.74e-03 -1.64e-02 9.34e-03 -5.48e-02  
## 1805 1.96e-02 3.76e-03 4.08e-03 -7.56e-03 -4.95e-03 6.24e-04 -5.49e-02  
## 1806 -4.98e-04 2.71e-04 2.45e-04 -3.02e-05 -1.37e-04 -2.77e-04 -1.32e-03  
## 1807 2.23e-02 -9.57e-04 -9.59e-03 2.73e-02 1.25e-02 -5.92e-03 8.15e-02  
## 1808 -7.26e-03 2.69e-02 -9.22e-03 -2.91e-02 2.32e-02 -1.56e-02 8.28e-02  
## 1809 -2.10e-02 -8.56e-03 -1.17e-02 6.29e-04 -1.41e-02 -1.78e-02 6.59e-02  
## 1810 1.05e-04 3.74e-03 5.53e-04 1.33e-03 -6.96e-04 1.88e-03 6.56e-03  
## 1811 1.95e-05 -1.45e-04 -2.07e-03 9.42e-06 -2.91e-03 6.85e-03 -1.37e-02  
## 1812 -2.54e-03 -4.61e-03 4.02e-03 3.11e-03 -1.08e-02 8.98e-03 2.10e-02  
## 1813 -1.10e-03 9.57e-03 1.01e-02 -5.38e-03 2.62e-04 9.30e-03 2.82e-02  
## 1814 9.28e-03 -1.34e-02 1.29e-02 -9.02e-03 8.29e-03 6.63e-03 3.69e-02  
## 1815 -3.11e-04 -1.21e-04 -1.80e-04 7.57e-06 -1.63e-04 1.10e-04 -7.95e-04  
## 1816 4.09e-03 8.43e-04 1.33e-02 1.11e-02 -3.45e-03 1.06e-02 4.57e-02  
## 1817 2.15e-02 6.90e-03 -2.87e-02 -7.72e-03 -1.17e-02 9.21e-04 -6.76e-02  
## 1818 -2.76e-02 9.02e-03 5.72e-03 8.40e-03 -1.27e-02 -3.36e-03 -6.96e-02  
## 1819 -1.55e-02 -6.62e-04 1.06e-02 1.28e-02 -2.09e-02 3.64e-03 -6.10e-02  
## 1820 2.38e-04 6.59e-04 -2.53e-03 4.39e-03 -4.29e-03 9.28e-03 -1.80e-02  
## 1821 1.53e-03 -6.72e-03 -7.73e-03 4.64e-03 -9.97e-03 -1.04e-03 3.92e-02  
## 1822 -1.16e-02 -1.45e-02 -2.94e-03 8.73e-03 -4.04e-04 9.72e-03 4.49e-02  
## 1823 -1.18e-02 -1.65e-02 -6.32e-03 -1.24e-02 -5.23e-03 -2.12e-03 4.94e-02  
## 1824 -7.67e-04 -1.40e-03 2.07e-03 1.03e-03 -1.54e-03 -2.44e-03 9.33e-03  
## 1825 1.88e-02 1.00e-02 -1.18e-02 3.37e-03 2.45e-02 -5.26e-03 6.20e-02  
## 1826 -2.74e-06 -9.76e-05 -2.63e-05 -7.24e-05 -1.19e-05 -2.40e-06 -2.39e-04  
## 1827 5.08e-04 -8.21e-03 -8.28e-03 1.31e-02 -1.15e-02 -8.24e-03 4.93e-02  
## 1828 2.54e-02 3.35e-02 8.47e-03 -1.63e-02 1.49e-02 1.03e-02 -1.14e-01  
## 1829 8.25e-04 -4.70e-04 8.97e-03 -1.42e-03 -4.61e-03 5.34e-03 3.31e-02  
## 1830 -4.69e-03 -8.94e-03 -2.51e-02 2.94e-03 1.52e-02 -2.16e-02 -8.22e-02  
## 1831 3.94e-03 5.41e-03 -1.31e-02 -4.82e-04 -1.14e-02 1.47e-02 5.20e-02  
## 1832 1.12e-02 1.28e-02 5.55e-03 -6.03e-03 -1.76e-02 1.50e-02 -6.37e-02  
## 1833 1.19e-02 2.18e-02 -2.02e-02 6.67e-02 5.42e-02 -4.55e-02 -1.14e-01  
## 1834 -1.83e-02 -1.26e-02 -2.88e-03 1.00e-02 -2.76e-03 8.56e-03 5.99e-02  
## 1835 -4.87e-05 1.92e-02 -1.05e-02 -7.61e-03 -9.96e-03 9.32e-03 3.29e-02  
## 1836 -3.98e-03 -2.22e-02 -4.49e-02 3.45e-02 -1.64e-02 -4.22e-02 -1.40e-01  
## 1837 -4.10e-04 -1.61e-03 1.16e-03 1.02e-03 -4.32e-04 -2.33e-03 5.84e-03  
## 1838 -1.00e-02 -1.35e-02 -5.89e-03 4.38e-03 -9.28e-03 -3.91e-03 3.48e-02  
## 1839 1.50e-04 4.60e-04 -2.30e-03 1.67e-04 -3.95e-03 8.36e-03 -1.60e-02  
## 1840 -1.74e-03 1.07e-03 -1.68e-03 2.70e-04 1.02e-03 7.03e-04 -7.19e-03  
## 1841 3.64e-03 -1.78e-03 -3.48e-03 -3.54e-03 2.91e-03 -5.26e-03 2.10e-02  
## 1842 -7.37e-04 1.06e-03 1.75e-03 2.77e-03 -2.50e-03 1.42e-03 9.06e-03  
## 1843 6.19e-05 -1.32e-03 -1.36e-03 8.70e-04 -1.42e-03 3.09e-03 -8.64e-03  
## 1844 -3.40e-04 -6.20e-04 9.81e-04 1.93e-03 -4.76e-04 -7.62e-04 4.78e-03  
## 1845 -5.91e-03 -2.31e-03 2.01e-02 -6.91e-04 1.34e-02 -1.66e-02 -6.65e-02  
## 1846 2.53e-03 -9.79e-03 -5.29e-03 -1.30e-03 -1.03e-02 -2.86e-03 3.34e-02  
## 1847 3.02e-02 -5.88e-03 1.38e-02 1.17e-03 1.34e-02 -2.15e-02 -8.32e-02  
## 1848 -6.42e-03 -5.62e-03 -2.55e-02 2.44e-02 9.11e-03 -2.33e-02 -7.51e-02  
## 1849 -6.38e-03 -5.31e-03 -2.49e-02 2.74e-03 9.08e-03 -2.31e-02 -7.16e-02  
## 1850 3.09e-02 -5.44e-03 1.25e-02 1.31e-03 2.17e-02 -4.44e-03 -8.91e-02  
## 1851 1.77e-06 4.10e-04 -6.27e-04 5.45e-04 5.24e-05 -2.93e-04 1.39e-03  
## 1852 -3.60e-03 2.46e-02 2.14e-02 1.16e-02 2.42e-02 3.74e-03 -1.20e-01  
## 1853 -5.81e-03 -3.00e-03 -4.27e-03 -2.35e-04 -3.34e-03 1.96e-03 -2.38e-02  
## 1854 -1.68e-02 4.59e-03 1.50e-02 -6.19e-03 -2.39e-02 2.87e-03 -7.44e-02  
## 1855 2.92e-02 2.52e-02 9.12e-03 -1.52e-02 -1.59e-02 -6.12e-03 -9.86e-02  
## 1856 1.38e-04 2.81e-04 -1.85e-03 -6.78e-03 -4.26e-03 8.31e-03 -1.60e-02  
## 1857 -6.98e-03 -5.93e-03 -2.42e-02 -1.79e-02 5.67e-03 -2.05e-02 -7.22e-02  
## 1858 1.18e-02 -1.67e-02 -4.69e-03 6.59e-03 -5.09e-03 -9.68e-03 4.97e-02  
## 1859 -1.28e-03 5.80e-03 3.98e-03 4.82e-03 -9.13e-03 6.43e-03 2.77e-02  
## 1860 -1.70e-02 1.02e-02 1.26e-02 1.42e-02 -3.67e-03 1.02e-04 5.34e-02  
## 1861 -8.55e-03 1.36e-02 -3.21e-03 9.80e-03 -1.38e-03 6.56e-03 5.76e-02  
## 1862 -1.26e-03 -3.01e-03 -2.29e-03 -4.55e-03 -6.46e-04 6.50e-03 1.97e-02  
## 1863 -2.00e-02 -3.91e-03 -2.43e-02 -8.16e-04 -2.30e-02 1.64e-02 -6.17e-02  
## 1864 2.59e-03 4.75e-03 -1.20e-02 -2.60e-02 -1.34e-02 1.58e-02 4.85e-02  
## 1865 2.63e-04 2.65e-04 -1.84e-03 7.33e-05 -1.52e-03 6.00e-03 -1.17e-02  
## 1866 3.93e-03 6.35e-03 -1.37e-02 1.18e-02 -9.26e-03 1.36e-02 4.59e-02  
## 1867 -1.48e-02 -1.53e-02 -5.32e-03 7.79e-03 3.60e-03 -1.44e-03 4.50e-02  
## 1868 1.23e-05 -1.61e-03 -7.77e-04 2.40e-03 -1.58e-04 5.02e-04 -5.27e-03  
## 1869 -5.33e-03 -2.59e-03 3.89e-03 -3.62e-04 9.59e-04 1.21e-04 -1.60e-02  
## 1870 -2.43e-03 3.27e-03 2.77e-03 -5.76e-04 -8.23e-04 -1.40e-03 1.03e-02  
## 1871 2.45e-05 1.86e-04 -1.44e-04 1.21e-05 -7.42e-05 3.27e-04 8.00e-04  
## 1872 -5.55e-03 1.06e-02 -4.78e-03 -3.92e-03 4.25e-03 1.23e-02 5.09e-02  
## 1873 4.14e-03 -1.44e-03 -6.08e-03 -1.78e-05 6.42e-03 -1.73e-03 -2.01e-02  
## 1874 -3.14e-03 -4.89e-03 -1.05e-02 -1.01e-02 -1.61e-02 1.10e-02 2.80e-02  
## 1875 -1.27e-02 -9.37e-03 9.06e-03 -1.13e-04 -2.03e-02 4.42e-04 -3.88e-02  
## 1876 1.46e-02 -5.45e-03 4.28e-03 -1.23e-03 -1.13e-02 9.17e-03 -3.50e-02  
## 1877 -2.11e-02 -8.23e-03 -8.48e-03 -1.68e-02 -6.37e-03 -2.86e-03 5.25e-02  
## 1878 -1.84e-02 -9.47e-03 -8.61e-03 1.12e-02 -5.45e-03 -3.89e-04 3.92e-02  
## 1879 -3.14e-02 2.21e-02 6.15e-03 2.70e-02 1.66e-03 9.52e-03 -1.04e-01  
## 1880 1.06e-03 2.89e-03 3.45e-03 -5.67e-03 3.24e-04 -3.61e-04 1.45e-02  
## 1881 -1.35e-02 -8.73e-03 -5.79e-03 -3.69e-03 -4.62e-03 -4.91e-03 2.82e-02  
## 1882 -5.17e-03 -2.45e-03 6.76e-03 4.41e-03 -2.03e-03 1.62e-03 -2.18e-02  
## 1883 -1.53e-02 2.08e-04 -2.55e-02 -3.85e-03 -2.15e-02 -2.69e-05 -5.35e-02  
## 1884 3.70e-03 5.85e-03 6.38e-03 -9.50e-03 -5.15e-04 4.26e-04 2.62e-02  
## 1885 6.92e-03 1.29e-03 -1.15e-02 1.34e-02 -3.03e-03 8.14e-03 5.68e-02  
## 1886 9.49e-03 1.97e-02 3.79e-02 8.99e-03 5.14e-02 -4.01e-02 -1.02e-01  
## 1887 -5.17e-03 -8.94e-03 -2.46e-02 -1.68e-02 1.33e-02 -2.04e-02 -8.29e-02  
## 1888 -2.71e-02 6.83e-03 -8.72e-03 -1.95e-02 -2.44e-02 2.81e-03 9.86e-02  
## 1889 -2.78e-02 -7.38e-03 -1.03e-02 2.42e-03 -1.24e-02 -9.04e-03 5.74e-02  
## 1890 -1.49e-02 -1.77e-02 -6.74e-03 7.78e-03 -6.55e-03 -3.90e-03 6.18e-02  
## 1891 2.58e-03 -1.81e-03 2.43e-03 2.71e-03 3.07e-03 -1.54e-03 -1.28e-02  
## 1892 1.00e-03 -5.23e-03 2.97e-03 1.46e-03 -1.77e-03 -2.80e-03 1.22e-02  
## 1893 -3.64e-03 1.14e-02 1.66e-02 3.60e-02 2.66e-02 -4.40e-03 -1.10e-01  
## 1894 1.90e-02 -4.92e-03 -2.11e-02 -1.11e-03 -1.61e-02 6.06e-03 -5.27e-02  
## 1895 -2.32e-02 -3.53e-03 -8.81e-03 -1.16e-02 1.71e-02 -1.74e-02 7.37e-02  
## 1896 1.92e-04 6.34e-03 7.71e-04 1.63e-03 -1.49e-03 3.83e-03 1.08e-02  
## 1897 -6.39e-04 2.36e-03 2.23e-03 -7.39e-04 -3.95e-03 4.02e-03 1.12e-02  
## 1898 2.86e-03 -1.20e-03 3.91e-03 -3.23e-04 5.46e-03 -1.65e-03 -1.36e-02  
## 1899 -2.10e-02 9.29e-03 -8.21e-03 2.28e-03 3.22e-02 -2.87e-02 8.41e-02  
## 1900 2.97e-02 4.05e-02 8.57e-03 -1.90e-02 -5.10e-03 -4.33e-03 -1.11e-01  
## 1901 -1.28e-03 -1.33e-03 -6.73e-03 6.78e-03 -4.43e-03 -3.78e-03 1.82e-02  
## 1902 3.71e-03 9.80e-04 5.21e-03 -2.00e-03 4.42e-03 -2.37e-03 2.08e-02  
## 1903 -2.08e-02 -9.67e-03 -9.26e-03 1.55e-03 -1.19e-02 -1.77e-02 5.44e-02  
## 1904 1.76e-04 -5.78e-04 -1.95e-03 4.41e-04 -2.70e-03 6.41e-03 -1.31e-02  
## 1905 -5.16e-04 2.47e-03 1.84e-03 2.59e-03 -3.51e-03 4.69e-03 1.31e-02  
## 1906 6.95e-03 2.65e-03 -1.21e-02 -5.55e-04 -6.08e-03 1.53e-02 6.19e-02  
## 1907 -7.40e-03 -1.84e-03 -3.78e-03 -1.24e-04 -2.01e-03 -4.35e-03 -1.28e-02  
## 1908 -3.46e-04 -9.14e-04 -1.98e-03 -2.05e-03 -7.90e-04 -8.80e-04 4.90e-03  
## 1909 1.73e-02 9.39e-04 -3.45e-03 7.21e-03 1.66e-03 7.58e-03 3.36e-02  
## 1910 1.16e-02 -5.67e-03 1.87e-02 3.70e-04 -9.46e-03 -4.81e-03 6.18e-02  
## 1911 3.28e-03 -7.10e-03 -7.43e-03 -5.59e-03 -4.13e-03 2.56e-03 3.07e-02  
## 1912 -2.62e-02 2.08e-02 1.01e-02 2.73e-02 -6.29e-03 -5.16e-03 -8.95e-02  
## 1913 2.54e-03 -1.43e-03 -4.21e-03 -3.36e-04 5.01e-03 -1.09e-03 -1.41e-02  
## 1914 1.26e-03 -5.87e-03 4.56e-03 1.09e-03 -3.68e-04 -8.53e-04 1.71e-02  
## 1915 -1.05e-02 -1.15e-03 -2.29e-02 -1.86e-02 6.62e-03 -9.16e-03 -8.31e-02  
## 1916 -2.45e-03 -7.88e-03 -7.27e-03 -1.06e-02 -9.80e-03 2.66e-03 2.29e-02  
## 1917 6.75e-04 -6.40e-04 8.87e-04 -7.24e-05 1.28e-03 -4.58e-04 -4.14e-03  
## 1918 9.82e-03 -1.00e-02 1.58e-02 3.30e-03 -6.90e-03 -1.71e-04 5.04e-02  
## 1919 1.90e-05 -1.56e-03 -6.13e-04 2.15e-03 -1.27e-05 1.64e-04 -4.46e-03  
## 1920 2.89e-02 -5.65e-03 3.44e-02 -2.90e-02 1.31e-02 1.00e-03 9.00e-02  
## 1921 2.49e-03 1.43e-03 -1.31e-03 -1.34e-03 -5.89e-04 3.76e-04 6.50e-03  
## 1922 8.39e-03 2.92e-02 6.48e-03 -1.36e-02 2.28e-03 -9.35e-03 -7.63e-02  
## 1923 6.00e-03 4.02e-02 6.18e-03 2.69e-02 3.38e-03 -1.06e-02 -9.35e-02  
## 1924 1.24e-02 5.59e-02 4.07e-02 -3.32e-02 3.56e-02 3.38e-03 -1.11e-01  
## 1925 -3.13e-02 7.92e-03 -1.26e-02 1.63e-03 3.33e-02 -1.37e-02 8.61e-02  
## 1926 -3.16e-03 -4.90e-03 -1.10e-02 -2.89e-03 -1.60e-02 1.09e-02 2.70e-02  
## 1927 -9.94e-04 -7.91e-04 -2.89e-03 -9.66e-03 -8.31e-04 3.95e-03 3.23e-02  
## 1928 -2.47e-03 -4.67e-03 4.28e-03 3.28e-03 -1.07e-02 9.11e-03 2.15e-02  
## 1929 -1.02e-03 2.41e-03 -7.47e-03 4.46e-03 -5.47e-03 2.61e-03 1.53e-02  
## 1930 -1.12e-02 -5.42e-03 1.26e-02 -1.91e-03 -2.43e-02 1.77e-02 -6.75e-02  
## 1931 -4.09e-04 -1.12e-03 -1.99e-03 -2.00e-03 -7.99e-04 -1.49e-03 5.52e-03  
## 1932 -3.56e-04 2.37e-04 7.69e-04 8.08e-04 1.85e-04 2.41e-04 -3.00e-03  
## 1933 1.20e-04 3.71e-03 5.95e-04 1.44e-03 -6.80e-04 1.84e-03 6.61e-03  
## 1934 -2.36e-03 -4.85e-03 4.67e-03 3.71e-03 -1.09e-02 9.56e-03 2.25e-02  
## 1935 -2.89e-03 -5.30e-03 -1.13e-02 4.08e-03 -1.39e-02 1.10e-02 3.04e-02  
## 1936 -2.44e-03 3.03e-03 -3.23e-03 -2.81e-03 9.77e-04 1.43e-03 -1.31e-02  
## 1937 -2.90e-02 6.77e-04 1.66e-02 1.17e-02 -6.67e-03 5.50e-03 5.36e-02  
## 1938 5.72e-05 -1.34e-03 -6.64e-04 7.00e-04 -2.36e-04 8.93e-04 -4.08e-03  
## 1939 2.76e-03 6.72e-03 -1.32e-02 -1.53e-02 -1.76e-02 1.25e-02 5.68e-02  
## 1940 -1.42e-02 7.17e-04 -2.42e-02 -1.79e-02 -2.91e-03 -3.28e-02 -1.03e-01  
## 1941 7.80e-05 4.56e-04 -2.55e-03 4.29e-03 -3.83e-03 8.13e-03 -1.72e-02  
## 1942 2.24e-02 -1.74e-02 -4.46e-03 -2.33e-03 5.93e-04 1.04e-02 4.93e-02  
## 1943 4.71e-03 -1.25e-03 -1.61e-03 -2.46e-03 1.03e-03 2.95e-03 1.27e-02  
## 1944 1.90e-02 -4.49e-03 -2.10e-02 -6.48e-04 -2.36e-02 8.33e-03 -4.98e-02  
## 1945 -3.06e-05 6.05e-04 1.04e-03 -7.54e-04 5.23e-04 1.10e-03 3.44e-03  
## 1946 -4.36e-02 3.57e-02 4.50e-03 2.53e-02 3.75e-03 -2.70e-02 -1.11e-01  
## 1947 4.64e-03 -4.71e-03 1.08e-02 -7.94e-03 -4.31e-03 3.13e-03 4.06e-02  
## 1948 -1.92e-02 -1.62e-02 -8.32e-03 -2.43e-02 1.31e-02 -1.54e-02 8.12e-02  
## 1949 -1.21e-02 -7.67e-03 1.01e-02 -2.97e-04 -2.44e-02 9.12e-03 -6.11e-02  
## 1950 -1.02e-02 -8.43e-03 6.59e-03 -8.82e-04 -1.45e-02 4.22e-03 -3.59e-02  
## 1951 -8.91e-03 -1.86e-02 -2.83e-03 -1.75e-02 -7.13e-04 1.13e-02 5.84e-02  
## 1952 4.62e-03 2.77e-03 -1.30e-03 -1.73e-03 4.38e-04 3.01e-03 9.23e-03  
## 1953 9.16e-04 -8.08e-03 5.74e-03 3.22e-03 -2.58e-03 -1.15e-03 2.20e-02  
## 1954 1.66e-02 -4.84e-03 -8.16e-03 -2.40e-02 1.04e-02 -9.37e-03 6.57e-02  
## 1955 5.40e-03 -4.48e-03 1.05e-02 -4.50e-04 -1.59e-04 6.01e-03 4.65e-02  
## 1956 1.18e-02 -1.43e-02 1.48e-02 -3.84e-03 1.08e-02 -7.13e-03 4.66e-02  
## 1957 1.40e-03 2.40e-03 -4.72e-03 -6.06e-03 -2.77e-03 -1.59e-03 2.00e-02  
## 1958 -7.68e-03 1.52e-02 -1.02e-02 -8.61e-03 1.68e-02 -1.39e-02 6.39e-02  
## 1959 1.63e-02 4.19e-03 2.52e-02 -3.13e-02 2.87e-02 2.11e-03 6.12e-02  
## 1960 6.29e-05 -5.61e-05 -1.75e-04 3.01e-04 3.23e-05 -1.29e-04 7.62e-04  
## 1961 -3.57e-03 1.82e-02 2.68e-02 4.35e-02 1.95e-02 -8.76e-03 -1.03e-01  
## 1962 1.00e-03 -4.10e-03 1.60e-02 -7.51e-03 -1.12e-02 -2.19e-04 5.03e-02  
## 1963 6.06e-02 4.23e-02 3.48e-02 -1.42e-03 4.95e-02 1.08e-02 -1.54e-01  
## 1964 -2.23e-03 3.61e-03 -4.71e-03 1.76e-02 5.69e-03 3.46e-03 4.30e-02  
## 1965 -1.75e-03 3.02e-03 3.10e-03 2.39e-03 1.69e-03 -1.80e-03 1.45e-02  
## 1966 -1.97e-02 -4.33e-03 5.59e-03 -2.25e-03 -1.64e-02 5.77e-03 -4.80e-02  
## 1967 -9.92e-04 1.94e-03 -6.44e-03 -4.20e-03 -5.85e-03 3.21e-03 1.38e-02  
## 1968 -2.38e-02 -9.01e-03 2.90e-02 6.80e-03 2.39e-02 -6.22e-03 7.25e-02  
## 1969 2.31e-03 -8.69e-04 4.28e-03 -3.88e-03 2.13e-03 -1.21e-03 -1.60e-02  
## 1970 -1.27e-02 -4.91e-03 7.55e-03 -3.28e-03 -1.50e-02 2.46e-03 -4.64e-02  
## 1971 4.34e-05 3.44e-03 6.83e-04 1.55e-03 -4.25e-04 8.74e-04 5.78e-03  
## 1972 6.95e-03 -3.91e-03 1.24e-03 -8.23e-04 -3.24e-03 9.21e-03 -2.60e-02  
## 1973 2.80e-02 -3.14e-03 -3.48e-03 8.70e-03 4.34e-03 -5.46e-03 7.48e-02  
## 1974 -2.28e-03 -1.45e-03 -1.46e-03 -2.43e-03 -3.91e-04 5.99e-04 -6.72e-03  
## 1975 3.83e-06 -1.70e-04 2.55e-04 2.27e-04 2.38e-05 8.41e-05 -5.91e-04  
## 1976 -3.01e-02 1.41e-03 -9.67e-03 6.00e-03 1.78e-02 -3.33e-02 9.22e-02  
## 1977 8.00e-03 5.11e-02 6.79e-03 2.65e-03 1.60e-02 -1.71e-02 -1.01e-01  
## 1978 -1.83e-03 -6.24e-03 2.85e-03 3.19e-03 -5.31e-03 3.19e-03 1.61e-02  
## 1979 -1.01e-02 1.68e-03 9.65e-03 1.09e-02 -3.41e-03 -6.25e-03 3.77e-02  
## 1980 2.18e-02 9.62e-04 5.26e-03 2.20e-02 -1.20e-02 1.25e-02 -6.32e-02  
## 1981 -1.19e-02 5.87e-03 -2.67e-02 -2.28e-02 -1.89e-03 -1.68e-02 -1.09e-01  
## 1982 -1.55e-03 2.75e-03 -1.45e-03 -1.99e-03 1.45e-03 2.94e-03 1.06e-02  
## 1983 -3.20e-02 1.36e-02 8.95e-03 2.85e-02 -1.35e-02 1.08e-02 -8.62e-02  
## 1984 9.40e-03 -3.80e-03 1.02e-02 -2.06e-02 1.58e-02 -1.51e-02 -9.64e-02  
## 1985 7.94e-03 8.66e-03 -5.47e-03 -2.00e-03 3.69e-03 -2.82e-04 2.48e-02  
## 1986 -1.64e-02 -3.07e-03 2.74e-03 -3.40e-03 -5.60e-03 4.28e-03 -4.18e-02  
## 1987 -6.32e-03 -7.35e-04 7.50e-03 -1.88e-03 -6.19e-03 -1.06e-03 2.36e-02  
## 1988 2.56e-02 -4.12e-04 -7.57e-03 4.91e-03 1.89e-02 -1.41e-02 6.73e-02  
## 1989 -6.29e-03 -4.89e-03 2.07e-02 1.06e-03 1.34e-02 -2.27e-02 -7.70e-02  
## 1990 -6.06e-04 7.13e-04 1.69e-03 2.73e-03 -2.06e-03 1.07e-03 8.36e-03  
## 1991 -1.06e-02 -1.02e-02 6.31e-03 -6.67e-04 -1.35e-02 -3.70e-04 -4.09e-02  
## 1992 7.55e-03 -1.37e-03 -4.30e-03 -1.09e-02 -1.77e-03 9.29e-04 -2.67e-02  
## 1993 1.28e-03 4.92e-03 -2.65e-03 -4.32e-03 1.83e-03 6.38e-03 1.99e-02  
## 1994 2.06e-02 -4.49e-04 -2.47e-02 1.78e-03 1.04e-02 -1.20e-02 -8.43e-02  
## 1995 -1.55e-02 2.10e-04 8.43e-03 -5.50e-03 -1.67e-02 -5.72e-04 -4.70e-02  
## 1996 2.09e-02 3.27e-03 2.88e-02 -1.46e-02 2.57e-02 -6.77e-03 8.03e-02  
## 1997 -2.30e-03 -5.48e-03 4.27e-03 3.79e-03 -9.74e-03 7.66e-03 2.01e-02  
## 1998 1.47e-03 1.01e-03 8.98e-04 -2.09e-04 1.07e-03 -5.29e-04 4.55e-03  
## 1999 -3.55e-03 -5.01e-02 1.57e-02 -2.02e-02 -2.29e-02 -2.96e-02 -1.16e-01  
## 2000 -2.58e-02 5.27e-03 6.51e-03 -1.98e-02 -1.04e-02 8.82e-03 -5.76e-02  
## 2001 9.70e-03 -8.80e-03 -3.97e-02 -3.77e-02 -1.91e-02 -1.16e-02 -1.00e-01  
## 2002 -3.13e-03 -1.77e-03 -2.50e-02 1.14e-03 1.82e-02 -1.54e-02 -7.80e-02  
## 2003 1.76e-02 -6.13e-03 6.44e-03 -6.50e-04 -1.61e-02 6.84e-03 -4.07e-02  
## 2004 -1.73e-02 3.03e-03 9.65e-03 -1.70e-02 -2.39e-02 1.94e-02 -7.34e-02  
## 2005 -8.22e-03 -2.15e-03 5.69e-03 4.66e-03 5.65e-03 -1.79e-03 -2.11e-02  
## 2006 -1.13e-02 -7.21e-03 6.53e-03 2.26e-02 -1.39e-02 2.46e-03 -4.48e-02  
## 2007 -2.76e-03 -6.72e-03 3.16e-03 1.67e-03 -3.30e-03 -5.20e-04 1.15e-02  
## 2008 -3.88e-02 3.21e-02 1.12e-02 -1.71e-02 -1.12e-04 8.30e-03 -1.01e-01  
## 2009 -2.44e-04 -3.61e-04 6.80e-04 -9.34e-04 -5.13e-04 2.93e-05 3.70e-03  
## 2010 2.99e-03 -7.02e-03 7.26e-03 -1.12e-02 -1.36e-03 -3.69e-03 3.12e-02  
## 2011 3.03e-03 -8.27e-03 1.16e-02 1.26e-02 -2.91e-03 2.89e-03 4.03e-02  
## 2012 1.80e-02 -1.62e-03 -2.15e-02 -2.70e-03 -1.87e-02 9.34e-03 -4.89e-02  
## 2013 -1.22e-06 -5.88e-04 -2.34e-04 7.01e-04 1.92e-05 1.10e-04 -1.63e-03  
## 2014 -5.77e-03 -8.76e-03 1.93e-02 -1.74e-02 1.37e-02 -2.01e-02 -6.61e-02  
## 2015 3.55e-03 6.65e-03 -4.80e-02 -2.40e-02 3.74e-03 -3.81e-02 -1.15e-01  
## 2016 -5.88e-03 -1.47e-04 -3.72e-03 7.32e-03 -3.64e-03 -1.48e-03 2.08e-02  
## 2017 -8.99e-05 -9.69e-04 -1.54e-03 -2.21e-03 -1.15e-03 -1.10e-03 -5.56e-03  
## 2018 -2.78e-02 1.18e-03 -8.27e-03 5.49e-03 2.34e-02 -1.51e-02 7.20e-02  
## 2019 -8.51e-03 -8.22e-03 4.12e-03 -2.79e-03 -9.75e-03 9.72e-03 -4.64e-02  
## 2020 -7.58e-03 2.67e-02 2.83e-02 3.96e-03 3.30e-02 -1.97e-02 7.67e-02  
## 2021 -1.66e-04 -5.33e-04 4.62e-04 6.45e-04 2.38e-04 -1.48e-03 -2.85e-03  
## 2022 -1.25e-03 -2.05e-03 9.80e-03 -5.19e-03 -1.71e-03 8.15e-03 2.58e-02  
## 2023 -4.99e-04 4.36e-04 1.88e-03 3.26e-03 -1.96e-03 7.06e-04 1.03e-02  
## 2024 1.29e-04 5.14e-03 9.16e-04 1.91e-03 -1.03e-03 2.18e-03 8.27e-03  
## 2025 3.10e-02 2.17e-03 1.96e-02 1.54e-03 -2.00e-02 -2.88e-02 -1.41e-01  
## 2026 -3.69e-04 -2.07e-03 1.12e-02 -1.98e-02 -5.82e-03 -2.72e-03 5.13e-02  
## 2027 8.22e-03 4.74e-04 1.36e-02 1.03e-02 2.11e-05 2.02e-02 5.73e-02  
## 2028 1.24e-02 4.15e-03 -2.58e-02 -3.39e-03 -1.69e-02 8.19e-03 -5.95e-02  
## 2029 1.02e-02 1.38e-02 3.68e-02 -1.41e-02 5.18e-02 -3.67e-02 -9.10e-02  
## 2030 9.00e-04 1.62e-04 -2.02e-03 -2.20e-03 -5.64e-04 -5.49e-04 7.26e-03  
## 2031 -1.14e-02 -8.18e-03 -4.59e-03 2.77e-03 -4.19e-03 -2.22e-03 2.54e-02  
## 2032 1.86e-02 1.53e-02 3.57e-02 1.82e-03 2.61e-02 -7.48e-03 9.21e-02  
## 2033 2.07e-02 2.00e-02 -1.22e-02 2.28e-02 2.85e-02 -1.36e-03 8.09e-02  
## 2034 1.11e-02 8.95e-03 5.55e-03 -6.17e-03 -1.44e-02 2.73e-03 -5.82e-02  
## 2035 -1.40e-02 -1.24e-04 8.30e-03 -5.84e-03 -1.57e-02 7.41e-03 -5.50e-02  
## 2036 3.58e-03 -1.58e-03 -5.98e-03 4.63e-03 6.18e-03 -2.22e-03 -1.88e-02  
## 2037 1.38e-04 7.33e-03 1.03e-03 1.90e-03 -1.89e-03 3.91e-03 1.13e-02  
## 2038 2.90e-03 -9.37e-03 1.07e-02 -1.13e-02 -9.25e-03 -3.93e-03 4.07e-02  
## 2039 1.66e-02 3.07e-03 2.75e-02 3.07e-03 2.57e-02 9.95e-04 6.52e-02  
## 2040 -7.90e-04 3.54e-03 2.24e-03 2.79e-03 -4.74e-03 5.23e-03 1.37e-02  
## 2041 7.05e-04 4.18e-03 -1.61e-03 -3.23e-03 -4.23e-04 5.30e-03 1.41e-02  
## 2042 8.10e-03 2.60e-03 1.36e-02 9.06e-03 -1.14e-03 2.35e-02 6.06e-02  
## 2043 -2.35e-02 -5.63e-03 -1.32e-02 9.24e-04 -1.31e-02 -1.93e-02 7.01e-02  
## 2044 8.14e-03 3.31e-03 2.77e-03 2.02e-02 -4.74e-03 8.31e-03 -5.41e-02  
## 2045 9.78e-03 -1.27e-02 -2.87e-03 -6.39e-03 1.89e-04 5.93e-03 3.31e-02  
## 2046 -2.72e-03 -1.30e-03 2.50e-03 1.59e-03 -2.34e-03 2.81e-03 -1.09e-02  
## 2047 6.64e-05 2.97e-05 -1.74e-03 -6.24e-03 -3.69e-03 7.14e-03 -1.44e-02  
## 2048 -4.64e-03 -2.21e-02 -3.74e-03 8.99e-03 -2.76e-03 2.03e-03 5.03e-02  
## 2049 -2.68e-02 2.50e-02 1.12e-02 2.76e-02 -3.24e-03 -6.12e-03 -9.59e-02  
## 2050 -3.73e-03 -7.51e-03 1.62e-02 1.01e-04 2.04e-02 -1.45e-02 -6.65e-02  
## 2051 -5.48e-03 -1.99e-02 -4.75e-03 -3.38e-03 -3.78e-03 -6.33e-04 4.34e-02  
## 2052 1.02e-02 -1.09e-02 1.66e-02 -1.21e-02 9.08e-03 3.65e-03 4.13e-02  
## 2053 3.55e-02 2.87e-02 1.59e-02 -8.92e-03 3.09e-02 2.10e-02 -1.06e-01  
## 2054 5.00e-03 -1.17e-03 -6.64e-03 5.56e-03 7.92e-03 -1.62e-03 -2.29e-02  
## 2055 2.39e-02 -1.46e-02 -6.23e-03 8.07e-03 4.07e-03 -6.29e-03 5.80e-02  
## 2056 3.67e-03 -8.57e-04 -5.70e-03 -5.14e-03 4.65e-03 -1.30e-03 -1.88e-02  
## 2057 -1.05e-02 1.01e-02 -2.43e-02 3.33e-05 9.98e-03 -1.18e-02 -9.85e-02  
## 2058 -2.04e-05 1.76e-04 -4.64e-04 -2.49e-05 -2.84e-05 -5.33e-04 1.36e-03  
## 2059 -1.91e-03 -1.11e-03 -1.49e-03 -2.05e-03 -1.35e-03 3.09e-04 7.30e-03  
## 2060 -1.78e-04 -2.66e-04 4.93e-04 -1.42e-03 -5.36e-04 1.65e-04 2.64e-03  
## 2061 2.65e-02 -1.04e-02 2.80e-02 7.22e-03 1.58e-02 1.95e-03 6.22e-02  
## 2062 -1.73e-05 1.30e-04 -4.51e-04 5.33e-04 5.85e-05 -5.32e-04 1.28e-03  
## 2063 -2.43e-03 1.19e-03 -2.09e-03 -9.34e-03 -9.40e-03 1.32e-02 3.61e-02  
## 2064 1.31e-02 -1.36e-02 1.28e-02 1.24e-02 6.18e-03 -2.90e-03 3.95e-02  
## 2065 1.18e-02 -1.75e-03 5.57e-03 -1.38e-03 -1.53e-02 1.97e-02 -4.96e-02  
## 2066 -2.86e-03 4.32e-02 2.42e-02 7.18e-03 2.92e-02 1.15e-02 -1.22e-01  
## 2067 2.90e-03 1.45e-03 1.86e-03 -2.35e-05 1.41e-03 1.54e-03 5.98e-03  
## 2068 6.65e-05 1.58e-04 -1.51e-04 4.11e-04 9.83e-05 7.59e-05 -9.04e-04  
## 2069 -2.13e-03 -6.40e-03 3.62e-03 3.84e-03 -6.96e-03 3.61e-03 1.62e-02  
## 2070 1.55e-02 3.05e-02 5.24e-03 7.32e-03 -2.29e-03 5.91e-03 -1.07e-01  
## 2071 -5.87e-03 -1.92e-02 -1.95e-03 1.14e-02 -9.51e-03 1.25e-02 6.31e-02  
## 2072 -1.49e-02 7.31e-03 9.11e-03 -6.38e-03 -3.18e-04 5.21e-04 3.44e-02  
## 2073 -1.49e-02 -7.83e-03 -2.19e-02 -8.35e-05 -2.92e-02 1.19e-03 -4.75e-02  
## 2074 2.23e-03 8.83e-03 -8.87e-03 8.36e-03 5.10e-04 -1.37e-03 3.05e-02  
## 2075 -3.54e-03 -1.27e-02 -2.03e-03 5.22e-03 -4.55e-03 1.02e-02 3.01e-02  
## 2076 -7.44e-04 8.62e-04 -6.46e-04 8.24e-05 -1.48e-03 2.93e-04 3.72e-03  
## 2077 1.86e-02 -7.52e-03 -1.04e-02 -8.42e-03 1.97e-02 -8.84e-04 6.01e-02  
## 2078 -2.70e-03 -9.27e-03 4.22e-03 5.10e-03 -7.48e-03 4.91e-04 2.35e-02  
## 2079 9.81e-03 1.40e-02 3.62e-02 -1.49e-02 5.19e-02 -3.72e-02 -9.07e-02  
## 2080 -1.53e-02 -4.93e-03 -2.38e-02 3.32e-02 -3.01e-02 -2.23e-03 -7.11e-02  
## 2081 1.09e-02 5.44e-03 1.67e-03 -7.07e-03 1.62e-03 1.92e-03 -4.76e-02  
## 2082 -2.81e-02 5.61e-03 -2.74e-02 -3.36e-03 -2.89e-02 3.09e-03 -6.98e-02  
## 2083 -7.38e-03 -3.11e-03 2.30e-02 1.57e-03 1.40e-02 -1.55e-02 -1.02e-01  
## 2084 5.43e-03 4.39e-03 8.09e-03 3.92e-03 -2.49e-04 -1.81e-04 3.04e-02  
## 2085 1.43e-03 1.59e-03 1.13e-03 -2.20e-04 1.54e-03 -1.08e-03 5.82e-03  
## 2086 4.52e-03 -1.30e-02 -5.79e-03 -1.77e-03 2.90e-03 -3.45e-03 3.44e-02  
## 2087 3.04e-05 -1.49e-03 -1.04e-03 9.32e-04 -1.02e-03 1.86e-03 -7.56e-03  
## 2088 8.08e-03 -2.07e-03 -5.94e-03 -5.63e-04 4.00e-03 -6.60e-04 -2.41e-02  
## 2089 -3.02e-03 -7.75e-03 4.69e-03 -7.53e-03 -1.10e-02 5.01e-03 2.66e-02  
## 2090 -1.95e-03 -6.79e-03 3.50e-03 4.07e-03 -6.20e-03 2.64e-03 1.54e-02  
## 2091 -1.74e-02 -6.49e-03 5.79e-03 -2.62e-04 -1.56e-02 7.07e-03 -4.00e-02  
## 2092 1.11e-02 2.11e-02 -1.89e-02 1.17e-02 5.02e-02 -4.23e-02 -9.27e-02  
## 2093 -1.61e-02 -2.12e-03 -9.40e-03 4.23e-03 2.09e-02 -2.99e-02 7.98e-02  
## 2094 -3.37e-02 2.97e-03 3.09e-02 2.22e-02 3.56e-02 -3.29e-02 9.95e-02  
## 2095 1.42e-02 -1.39e-02 -6.22e-03 -3.60e-03 9.75e-03 1.57e-03 5.17e-02  
## 2096 -3.13e-04 -2.31e-03 1.12e-02 -6.60e-03 -4.40e-04 1.08e-02 2.86e-02  
## 2097 2.10e-02 -5.42e-03 1.82e-02 -1.64e-02 -1.85e-02 9.54e-03 -1.03e-01  
## 2098 2.02e-02 -4.49e-03 -1.11e-02 -1.14e-02 1.95e-02 -6.87e-03 7.63e-02  
## 2099 1.92e-02 1.05e-02 -1.06e-02 3.86e-03 2.10e-02 3.60e-03 7.42e-02  
## 2100 1.64e-02 -3.33e-03 4.48e-03 7.56e-03 -1.03e-02 7.96e-03 -4.37e-02  
## 2101 -1.26e-02 -6.43e-03 -2.09e-02 -1.17e-03 -2.15e-02 4.08e-03 -4.58e-02  
## 2102 -1.63e-03 -4.17e-04 8.81e-04 -2.04e-04 1.15e-04 -1.29e-04 3.86e-03  
## 2103 -2.05e-02 -1.16e-02 -7.05e-03 9.01e-03 4.18e-03 -9.99e-03 6.50e-02  
## 2104 1.76e-03 -7.26e-03 6.64e-03 -6.98e-03 -9.57e-04 1.74e-03 2.24e-02  
## 2105 -1.13e-05 2.42e-03 9.29e-04 -2.53e-03 -7.85e-04 1.03e-04 5.89e-03  
## 2106 -2.35e-03 -5.07e-03 4.34e-03 -2.36e-03 -1.05e-02 8.61e-03 2.01e-02  
## 2107 2.38e-05 4.18e-04 1.08e-04 2.98e-04 3.39e-05 4.74e-05 8.86e-04  
## 2108 1.72e-03 6.69e-04 3.43e-03 1.72e-03 1.24e-04 -9.52e-04 1.38e-02  
## 2109 -1.01e-02 5.78e-03 -6.38e-03 -2.76e-03 6.03e-03 3.07e-03 4.35e-02  
## 2110 9.32e-04 -5.08e-03 -3.20e-03 4.71e-03 -1.31e-03 -1.56e-03 1.38e-02  
## 2111 3.20e-04 1.14e-03 -6.65e-04 1.06e-03 -1.69e-04 2.09e-03 4.54e-03  
## 2112 -7.59e-03 -8.12e-04 -2.32e-02 9.38e-04 1.57e-02 -4.62e-03 -8.47e-02  
## 2113 1.97e-03 6.78e-05 -4.04e-03 3.13e-03 -1.44e-03 3.22e-03 -1.60e-02  
## 2114 -2.31e-02 -6.00e-03 -9.38e-03 6.09e-03 2.10e-02 -9.32e-05 6.69e-02  
## 2115 -3.29e-04 -9.19e-04 -1.76e-03 -1.77e-03 -6.20e-04 -1.00e-03 4.42e-03  
## 2116 -1.19e-04 -1.13e-03 -9.58e-04 -3.10e-03 -1.48e-03 2.32e-03 -6.96e-03  
## 2117 -2.45e-03 -4.68e-03 4.34e-03 3.33e-03 -1.07e-02 9.14e-03 2.17e-02  
## 2118 -1.86e-02 1.68e-02 -1.09e-02 1.80e-02 -9.23e-03 -1.10e-02 6.66e-02  
## 2119 1.46e-02 -4.23e-03 -7.42e-03 7.45e-03 1.50e-02 -4.60e-03 5.33e-02  
## 2120 -1.20e-02 -7.31e-03 1.82e-02 1.62e-03 1.12e-02 -3.18e-02 -8.85e-02  
## 2121 -1.34e-03 1.60e-03 -1.35e-03 1.37e-03 -1.22e-03 1.17e-03 6.84e-03  
## 2122 3.24e-03 3.06e-03 1.30e-02 9.46e-03 -4.49e-03 1.18e-02 3.99e-02  
## 2123 -2.45e-02 -1.22e-02 3.10e-02 -1.70e-02 -1.28e-02 2.01e-02 -1.35e-01  
## 2124 5.38e-03 -1.08e-02 -5.21e-03 -2.24e-03 -9.24e-03 -4.49e-03 2.99e-02  
## 2125 -1.02e-02 -8.42e-03 6.64e-03 -8.72e-04 -1.45e-02 4.17e-03 -3.59e-02  
## 2126 -4.39e-02 -1.32e-02 1.44e-02 -1.75e-02 -1.44e-02 -7.89e-03 -1.04e-01  
## 2127 1.59e-03 9.93e-04 7.51e-04 -3.29e-04 8.12e-04 -5.35e-04 4.41e-03  
## 2128 -4.11e-04 5.09e-06 1.12e-03 2.08e-03 -1.20e-03 6.91e-04 6.44e-03  
## 2129 -1.07e-02 -1.03e-02 6.13e-03 -7.09e-04 -1.39e-02 -1.19e-04 -4.06e-02  
## 2130 -2.43e-03 -4.82e-03 4.47e-03 3.57e-03 -1.10e-02 9.47e-03 2.21e-02  
## 2131 -7.63e-03 -1.57e-02 -2.61e-03 -2.22e-03 -4.28e-03 6.64e-03 4.42e-02  
## 2132 2.82e-02 -2.31e-04 -7.46e-03 4.96e-03 1.93e-02 -1.72e-02 8.61e-02  
## 2133 -1.21e-04 1.13e-02 -7.59e-03 -9.31e-03 -6.06e-03 5.05e-03 2.34e-02  
## 2134 5.04e-03 -2.56e-03 -3.16e-03 4.24e-03 -6.49e-04 -2.03e-04 -1.65e-02  
## 2135 -2.58e-02 -4.29e-04 -1.06e-02 1.07e-03 -1.60e-02 -1.78e-03 6.37e-02  
## 2136 2.37e-02 1.55e-02 -3.13e-02 8.40e-03 -2.14e-02 -9.25e-04 -7.75e-02  
## 2137 -1.62e-03 -6.13e-03 2.71e-03 -6.61e-04 -5.11e-03 2.80e-03 1.35e-02  
## 2138 -1.16e-02 3.53e-03 5.70e-03 8.02e-03 9.00e-04 -2.72e-03 3.18e-02  
## 2139 -1.01e-02 2.80e-02 1.45e-02 5.56e-03 -7.29e-03 -2.69e-03 6.00e-02  
## 2140 4.17e-03 -1.15e-03 -1.18e-02 1.09e-02 -5.76e-03 4.95e-03 4.29e-02  
## 2141 1.76e-02 -1.59e-03 2.16e-02 1.99e-03 2.50e-02 -5.09e-03 5.75e-02  
## 2142 -7.04e-04 -2.43e-03 -2.11e-03 -3.65e-04 -2.07e-03 3.95e-03 1.50e-02  
## 2143 -1.98e-03 -6.22e-03 3.13e-03 -6.89e-04 -6.05e-03 2.41e-03 1.34e-02  
## 2144 -2.06e-03 -5.54e-03 3.08e-03 2.87e-03 -7.30e-03 6.08e-03 1.87e-02  
## 2145 -2.46e-03 8.90e-03 -5.61e-03 9.93e-03 4.79e-03 7.61e-03 4.94e-02  
## 2146 -2.87e-02 -1.80e-03 -8.64e-03 6.68e-03 1.54e-02 -6.64e-03 6.67e-02  
## 2147 1.63e-05 -4.51e-05 1.56e-04 1.13e-04 5.95e-06 2.16e-04 -4.94e-04  
## 2148 3.42e-03 7.15e-03 -1.36e-02 -2.30e-04 -1.65e-02 1.21e-02 5.65e-02  
## 2149 1.94e-02 -6.18e-03 -1.03e-02 6.98e-03 1.93e-02 -2.91e-03 6.13e-02  
## 2150 2.97e-05 1.20e-03 2.60e-04 6.72e-04 -4.85e-05 3.30e-04 2.54e-03  
## 2151 2.06e-02 5.99e-03 6.11e-03 -8.02e-03 -9.53e-03 -1.42e-03 -5.78e-02  
## 2152 1.92e-02 -4.50e-03 -2.11e-02 -6.01e-04 -2.34e-02 7.84e-03 -5.00e-02  
## 2153 -2.57e-03 5.24e-03 -3.61e-03 -1.32e-02 -1.54e-03 7.85e-03 4.11e-02  
## 2154 -2.86e-04 2.95e-04 -4.19e-04 3.52e-04 -3.75e-04 4.53e-05 1.56e-03  
## 2155 -7.27e-05 8.05e-03 1.99e-03 -6.93e-03 -3.40e-03 3.12e-03 1.59e-02  
## 2156 4.53e-03 -9.99e-04 6.31e-03 5.35e-03 6.89e-03 -2.64e-03 -2.29e-02  
## 2157 -1.57e-02 -5.85e-03 9.45e-03 -1.55e-03 -2.03e-02 7.04e-03 -4.93e-02  
## 2158 2.74e-02 -1.08e-02 2.77e-02 -7.75e-03 1.32e-02 -1.29e-02 7.06e-02  
## 2159 8.57e-03 6.69e-03 2.77e-03 -6.58e-03 3.90e-03 4.73e-03 -4.89e-02  
## 2160 -5.20e-03 -1.67e-03 1.83e-03 -2.94e-05 -1.90e-03 -2.29e-03 -9.41e-03  
## 2161 -6.23e-04 2.40e-03 2.28e-03 3.19e-03 -3.65e-03 3.67e-03 1.20e-02  
## 2162 7.55e-03 -8.89e-04 -3.55e-03 4.99e-03 1.67e-03 6.74e-04 2.35e-02  
## 2163 7.98e-03 -2.07e-03 1.29e-03 -2.69e-03 -3.15e-03 8.33e-03 -3.35e-02  
## 2164 -9.55e-03 -7.58e-03 5.26e-03 -1.27e-02 -9.33e-03 2.93e-03 -4.28e-02  
## 2165 1.44e-03 -1.37e-03 -2.44e-03 -4.48e-03 3.33e-04 -4.25e-05 -1.08e-02  
## 2166 3.53e-03 2.76e-03 -6.61e-03 1.86e-03 -4.76e-04 -2.11e-03 2.05e-02  
## 2167 -2.67e-02 -2.12e-03 1.68e-02 -2.29e-04 -7.19e-03 -1.17e-03 5.75e-02  
## 2168 2.82e-03 2.30e-03 1.31e-02 -1.25e-02 -6.83e-03 1.33e-02 3.96e-02  
## 2169 -2.50e-02 1.05e-03 3.02e-02 1.92e-03 3.49e-02 -2.29e-02 8.31e-02  
## 2170 -5.66e-04 9.73e-04 1.87e-03 -3.08e-03 -2.74e-03 2.09e-03 8.64e-03  
## 2171 -3.75e-02 2.22e-02 -3.50e-02 -8.30e-03 -3.09e-02 4.26e-03 -9.36e-02  
## 2172 1.68e-04 -4.63e-04 3.32e-03 2.07e-04 -1.07e-03 4.01e-03 -8.54e-03  
## 2173 -1.92e-03 6.19e-03 -2.37e-03 3.12e-04 -3.17e-04 6.66e-03 1.81e-02  
## 2174 2.03e-05 -1.39e-03 -9.84e-04 6.79e-04 -6.41e-04 1.88e-03 -6.23e-03  
## 2175 -7.64e-04 3.81e-03 2.41e-03 -1.40e-03 -5.45e-03 6.26e-03 1.41e-02  
## 2176 -1.09e-03 3.48e-03 -1.63e-03 2.29e-04 1.44e-03 3.06e-03 1.34e-02  
## 2177 -4.39e-03 -2.52e-03 -3.08e-03 -7.20e-04 -6.30e-03 -1.43e-03 1.68e-02  
## 2178 1.02e-03 9.25e-03 -4.46e-03 5.53e-03 3.14e-03 6.85e-03 2.70e-02  
## 2179 3.61e-03 -1.16e-03 -1.09e-02 -1.14e-02 -7.94e-03 6.77e-03 4.16e-02  
## 2180 1.24e-02 -4.00e-03 3.46e-03 -1.82e-03 -5.04e-03 1.12e-02 -3.81e-02  
## 2181 -4.22e-03 2.57e-02 -2.78e-02 -7.40e-03 1.07e-02 -9.04e-04 -1.07e-01  
## 2182 2.77e-05 -1.51e-03 -8.37e-04 9.02e-04 -6.56e-04 1.34e-03 -5.40e-03  
## 2183 5.98e-05 2.45e-04 -1.64e-04 2.35e-04 -1.03e-04 5.11e-04 1.01e-03  
## 2184 7.37e-03 -9.72e-03 -8.67e-03 3.61e-03 1.26e-03 2.38e-03 4.52e-02  
## 2185 2.44e-04 -5.64e-05 -1.87e-03 3.04e-03 -1.02e-03 5.12e-03 -1.16e-02  
## 2186 1.65e-03 -1.30e-03 -3.26e-03 -1.19e-04 2.68e-03 -9.24e-04 -1.03e-02  
## 2187 7.13e-03 -4.71e-03 1.69e-03 -8.87e-04 -7.41e-03 9.01e-03 -3.03e-02  
## 2188 2.22e-05 -2.89e-05 2.36e-05 2.79e-05 3.35e-05 1.67e-06 -1.22e-04  
## 2189 -2.02e-04 -9.74e-04 -1.39e-03 1.46e-03 3.73e-06 -1.28e-03 4.19e-03  
## 2190 -1.74e-02 -6.45e-03 5.92e-03 -2.26e-04 -1.54e-02 6.95e-03 -4.03e-02  
## 2191 -9.00e-04 1.86e-04 3.26e-03 5.42e-03 -3.85e-03 -7.39e-04 1.71e-02  
## 2192 -1.59e-03 -6.84e-03 2.86e-03 3.74e-03 -4.58e-03 1.91e-03 1.45e-02  
## 2193 -5.00e-03 -6.92e-03 3.78e-03 2.39e-03 -2.26e-03 -2.44e-04 1.47e-02  
## 2194 7.85e-03 7.89e-03 -1.06e-02 1.27e-02 -1.51e-03 -2.00e-03 4.50e-02  
## 2195 -2.13e-06 -1.42e-04 -1.03e-04 -2.93e-04 -5.49e-05 2.08e-04 -7.02e-04  
## 2196 8.10e-03 1.04e-02 1.05e-02 1.71e-03 -1.72e-03 -7.44e-04 3.76e-02  
## 2197 -2.85e-03 -9.70e-04 3.01e-03 -3.43e-03 -1.53e-03 -2.51e-03 1.03e-02  
## 2198 -1.19e-02 -8.44e-03 7.05e-03 -1.40e-02 -1.52e-02 6.31e-04 -4.93e-02  
## 2199 -5.77e-05 -8.10e-05 -5.85e-05 3.68e-06 -9.31e-06 1.01e-04 3.51e-04  
## 2200 4.88e-03 1.18e-02 1.57e-02 -2.57e-02 1.11e-02 -4.07e-02 -1.15e-01  
## 2201 -7.15e-03 1.76e-02 -5.90e-03 8.35e-03 8.20e-03 -8.05e-03 6.65e-02  
## 2202 2.43e-02 2.79e-02 4.81e-03 2.33e-02 1.35e-02 -1.38e-02 -9.58e-02  
## 2203 -2.22e-02 -1.49e-03 6.34e-03 -2.97e-03 -1.61e-02 1.23e-02 -5.39e-02  
## 2204 4.76e-03 -2.26e-03 1.17e-03 -1.62e-03 -3.53e-03 1.18e-02 -2.71e-02  
## 2205 -2.99e-03 -6.00e-03 -9.08e-03 -1.44e-02 -1.46e-02 8.35e-03 2.95e-02  
## 2206 9.30e-04 3.29e-03 5.06e-03 3.11e-03 1.94e-03 4.79e-03 1.50e-02  
## 2207 -2.97e-03 2.42e-03 -6.46e-03 1.94e-02 1.86e-03 4.22e-03 4.58e-02  
## 2208 -7.27e-04 2.81e-03 2.10e-03 2.77e-03 -4.14e-03 4.35e-03 1.22e-02  
## 2209 4.27e-05 7.61e-03 1.65e-03 -3.53e-03 -2.80e-03 3.28e-03 1.51e-02  
## 2210 2.16e-02 -1.88e-03 6.42e-03 -3.89e-03 -1.84e-02 1.24e-02 -5.57e-02  
## 2211 2.05e-04 -8.42e-05 2.09e-04 1.43e-04 -1.34e-04 2.07e-04 -9.58e-04  
## 2212 -2.70e-03 -1.68e-02 -1.96e-03 -7.82e-03 -9.95e-03 1.01e-02 3.80e-02  
## 2213 3.35e-03 -1.34e-03 -5.06e-03 3.49e-05 4.48e-03 -1.28e-03 -1.58e-02  
## 2214 2.17e-03 -1.18e-03 4.36e-03 -2.11e-04 3.12e-03 -3.33e-03 -1.67e-02  
## 2215 -1.72e-02 -4.02e-03 3.78e-02 5.05e-03 2.05e-02 -1.33e-02 8.49e-02  
## 2216 4.26e-03 -2.49e-03 4.17e-03 4.07e-03 4.26e-03 -1.76e-03 -1.97e-02  
## 2217 -8.16e-03 -1.48e-03 -6.45e-03 -9.25e-04 -4.77e-03 4.77e-03 -3.31e-02  
## 2218 -7.62e-03 -1.80e-02 -5.00e-03 -6.38e-03 7.74e-04 2.72e-03 5.90e-02  
## 2219 2.36e-02 4.69e-03 5.72e-03 -7.43e-03 -8.84e-03 5.44e-03 -5.93e-02  
## 2220 -1.35e-02 -5.05e-03 6.84e-03 -4.73e-03 -1.70e-02 6.67e-03 -6.13e-02  
## 2221 1.31e-02 1.03e-02 -8.33e-03 3.92e-03 1.28e-04 -7.62e-04 4.83e-02  
## 2222 3.57e-03 7.33e-03 2.27e-03 4.25e-03 4.69e-03 9.13e-04 1.75e-02  
## 2223 -1.21e-04 -5.25e-04 -6.41e-04 2.93e-04 -3.70e-05 -6.93e-04 1.70e-03  
## 2224 -2.17e-04 8.03e-03 -1.58e-03 -4.73e-03 -2.22e-03 9.83e-03 2.52e-02  
## 2225 1.79e-02 7.11e-03 2.60e-02 8.76e-04 3.33e-02 -7.72e-04 6.62e-02  
## 2226 -3.90e-05 -1.13e-03 -5.18e-04 -1.64e-03 -5.95e-04 8.81e-04 -3.92e-03  
## 2227 -1.49e-02 -5.91e-03 9.92e-03 -1.85e-03 -2.17e-02 -1.96e-03 -4.33e-02  
## 2228 4.05e-06 -1.41e-03 -4.94e-04 7.95e-04 -1.53e-05 6.75e-05 -3.47e-03  
## 2229 1.46e-03 -3.67e-03 -1.38e-03 2.71e-03 -1.56e-03 -8.16e-04 8.36e-03  
## 2230 3.04e-03 1.03e-02 3.82e-03 5.67e-03 2.32e-03 -7.92e-04 2.17e-02  
## 2231 6.85e-03 7.59e-04 -5.10e-03 -1.57e-03 -4.73e-03 -2.49e-03 2.42e-02  
## 2232 2.07e-02 1.71e-02 -1.17e-02 2.26e-02 2.86e-02 -9.49e-04 7.83e-02  
## 2233 -1.48e-02 8.22e-03 -9.54e-03 -5.82e-03 -4.32e-04 -1.69e-03 5.01e-02  
## 2234 -1.87e-02 -1.45e-03 -8.21e-03 3.28e-03 3.22e-02 -3.87e-02 9.39e-02  
## 2235 -2.69e-03 -1.35e-03 -2.07e-03 -1.45e-04 -4.70e-03 2.28e-03 -1.20e-02  
## 2236 1.89e-03 -1.12e-03 2.10e-03 -2.96e-04 4.39e-03 -1.27e-03 -1.07e-02  
## 2237 -1.89e-05 3.39e-04 -7.05e-04 -1.08e-04 -1.20e-04 -4.92e-04 1.75e-03  
## 2238 -4.72e-04 -1.39e-03 1.23e-03 7.59e-04 -7.58e-04 -1.64e-03 6.01e-03  
## 2239 -6.97e-03 -1.70e-02 -1.41e-05 1.10e-02 -1.16e-02 1.72e-02 5.45e-02  
## 2240 -1.08e-02 -1.02e-02 3.21e-02 -4.48e-02 9.02e-03 2.42e-02 -1.25e-01  
## 2241 9.37e-04 2.76e-03 4.45e-03 -2.63e-03 1.00e-03 5.06e-03 1.28e-02  
## 2242 1.10e-02 3.35e-03 6.19e-03 -2.68e-03 -9.92e-03 2.68e-02 -5.72e-02  
## 2243 2.04e-06 -7.12e-04 -2.91e-04 3.45e-04 -1.60e-05 1.64e-04 -1.74e-03  
## 2244 9.19e-04 -8.47e-03 -7.81e-03 -1.19e-02 -7.23e-03 4.24e-04 3.45e-02  
## 2245 -1.78e-02 -1.02e-02 1.76e-02 1.32e-02 -6.18e-03 -6.39e-03 5.39e-02  
## 2246 -6.23e-04 1.59e-03 2.03e-03 -3.66e-03 -3.42e-03 3.07e-03 1.00e-02  
## 2247 -2.18e-02 -6.72e-03 -1.12e-02 1.84e-03 -1.81e-02 -8.44e-03 6.14e-02  
## 2248 6.00e-04 3.81e-03 -1.67e-03 2.71e-03 -5.12e-04 3.82e-03 -9.47e-03  
## 2249 -9.17e-03 -2.62e-03 -6.49e-03 5.25e-03 3.50e-03 2.65e-04 -2.92e-02  
## 2250 -2.95e-04 -1.96e-04 1.38e-04 1.39e-04 -4.28e-05 -1.73e-04 -8.14e-04  
## 2251 1.97e-03 -1.47e-03 9.25e-03 8.34e-03 -2.20e-04 4.47e-03 4.01e-02  
## 2252 1.48e-03 1.01e-03 2.14e-03 -1.91e-03 6.98e-04 -2.08e-03 1.19e-02  
## 2253 -2.07e-03 -2.21e-03 3.63e-03 -3.25e-04 -2.83e-03 6.79e-04 1.10e-02  
## 2254 -1.65e-04 1.12e-04 -2.19e-04 -4.38e-04 -7.04e-05 1.13e-04 -1.19e-03  
## 2255 3.17e-04 8.40e-03 1.32e-03 2.40e-03 -1.71e-03 4.15e-03 1.29e-02  
## 2256 -2.15e-02 5.37e-03 -2.50e-02 1.49e-02 -3.37e-02 1.76e-02 -7.99e-02  
## 2257 3.51e-03 -1.10e-02 -6.23e-03 -1.86e-03 -6.41e-03 1.65e-03 3.75e-02  
## 2258 -1.77e-02 -6.03e-03 5.50e-03 -8.38e-04 -1.57e-02 6.77e-03 -3.99e-02  
## 2259 2.79e-02 1.24e-02 1.24e-02 2.99e-02 -2.07e-02 4.30e-02 -1.01e-01  
## 2260 5.98e-05 8.13e-04 -5.57e-04 -8.31e-04 -1.59e-04 1.08e-03 3.39e-03  
## 2261 8.30e-03 6.45e-03 3.52e-03 -1.63e-02 -1.25e-02 3.11e-02 -5.89e-02  
## 2262 -1.62e-03 -1.58e-03 -3.93e-03 -8.65e-03 -5.86e-04 4.16e-03 3.46e-02  
## 2263 2.05e-05 1.43e-04 -1.12e-04 1.41e-05 -6.95e-05 2.73e-04 6.29e-04  
## 2264 -1.14e-05 1.65e-03 -1.73e-03 -1.72e-03 -4.04e-04 -2.67e-04 4.21e-03  
## 2265 -1.47e-02 -7.88e-03 -2.13e-02 -1.42e-02 -2.96e-02 1.97e-03 -4.88e-02  
## 2266 -1.68e-02 -4.68e-03 3.83e-03 -1.65e-03 -1.08e-02 1.10e-02 -4.40e-02  
## 2267 -1.15e-02 -1.09e-02 -2.71e-03 9.59e-03 4.82e-03 7.36e-03 7.31e-02  
## 2268 5.26e-03 2.33e-04 -1.36e-02 -1.04e-03 -9.05e-03 7.54e-03 5.35e-02  
## 2269 -4.04e-04 -2.37e-04 1.17e-03 -1.52e-03 -1.23e-03 2.17e-05 5.84e-03  
## 2270 1.57e-02 2.35e-02 1.10e-02 -7.25e-03 -1.99e-02 2.02e-02 -8.95e-02  
## 2271 -1.09e-02 -6.45e-03 8.01e-03 -1.18e-03 -1.61e-02 3.83e-03 -4.55e-02  
## 2272 -5.60e-03 -2.25e-02 2.65e-02 9.55e-03 -7.63e-04 -1.97e-03 6.41e-02  
## 2273 8.53e-03 5.85e-02 6.40e-03 -2.23e-02 2.04e-02 -2.08e-02 -1.13e-01  
## 2274 7.14e-04 1.20e-03 -1.22e-02 4.50e-04 -1.39e-02 6.61e-03 5.20e-02  
## 2275 -1.80e-04 6.76e-04 -1.75e-03 1.79e-05 -3.41e-04 -2.65e-03 6.71e-03  
## 2276 -2.14e-02 -1.85e-03 -3.44e-03 -1.62e-02 1.11e-02 -3.35e-02 1.09e-01  
## 2277 3.78e-02 8.58e-03 1.44e-02 1.30e-02 2.54e-02 3.67e-03 -8.27e-02  
## 2278 7.31e-03 4.13e-02 3.97e-03 2.62e-03 2.55e-02 -4.14e-02 -1.12e-01  
## 2279 -1.28e-02 -9.56e-03 8.63e-03 -1.27e-02 -2.20e-02 2.01e-03 -3.99e-02  
## 2280 3.26e-03 -4.14e-03 7.96e-03 8.22e-03 -6.23e-04 -9.63e-04 4.13e-02  
## 2281 2.79e-02 4.46e-02 -3.79e-02 -1.84e-02 -9.09e-03 -8.70e-03 -1.20e-01  
## 2282 -2.62e-02 -7.13e-03 -1.07e-02 -1.07e-02 -1.82e-02 -4.57e-03 7.02e-02  
## 2283 -2.54e-03 -3.83e-02 1.14e-02 2.62e-02 1.62e-02 -4.07e-02 -1.22e-01  
## 2284 2.98e-02 9.03e-03 -9.24e-03 2.31e-02 2.89e-02 -2.41e-02 8.51e-02  
## 2285 -1.02e-04 -2.47e-04 -6.93e-04 -1.04e-03 -2.83e-04 -7.54e-04 -2.47e-03  
## 2286 1.93e-02 8.45e-03 1.14e-02 3.13e-02 2.09e-02 -3.46e-03 -8.92e-02  
## 2287 -1.48e-02 -4.95e-03 3.73e-03 -1.63e-03 -1.09e-02 8.50e-03 -3.56e-02  
## 2288 1.37e-03 -1.27e-03 -1.97e-03 2.45e-04 1.28e-03 2.07e-04 -6.41e-03  
## 2289 1.64e-03 -1.41e-03 -3.67e-03 2.45e-03 3.00e-03 -1.51e-03 -1.15e-02  
## 2290 8.69e-03 1.05e-03 2.79e-03 -3.51e-03 -8.00e-03 2.22e-02 -4.47e-02  
## 2291 -1.17e-02 -1.07e-02 1.80e-02 3.80e-03 1.22e-02 -3.59e-02 -8.05e-02  
## 2292 3.17e-03 6.00e-03 1.68e-02 -1.96e-03 -1.00e-02 1.44e-02 5.49e-02  
## 2293 2.58e-03 7.68e-03 -4.54e-02 -2.14e-02 -8.81e-03 -9.26e-03 -1.02e-01  
## 2294 8.69e-03 7.37e-03 -3.97e-03 3.67e-04 6.27e-03 5.09e-03 2.17e-02  
## 2295 -4.42e-04 -1.34e-03 -6.29e-04 2.01e-04 -5.19e-04 1.49e-04 -3.12e-03  
## 2296 1.56e-02 -6.60e-03 1.24e-02 6.10e-03 -2.52e-03 -9.98e-03 -9.35e-02  
## 2297 -2.90e-02 -3.19e-03 -9.42e-03 6.55e-03 2.33e-02 -2.44e-02 9.58e-02  
## 2298 2.28e-03 -1.41e-03 3.57e-03 -6.89e-03 4.45e-03 -1.87e-03 -1.39e-02  
## 2299 -1.51e-03 -2.03e-03 2.62e-02 2.04e-03 1.97e-02 -1.31e-02 -8.09e-02  
## 2300 -1.89e-03 -6.41e-04 -2.34e-03 -4.75e-04 6.07e-04 6.11e-03 2.17e-02  
## 2301 -1.46e-02 -1.36e-02 -3.77e-03 -2.26e-02 -1.56e-03 -2.23e-03 6.23e-02  
## 2302 1.88e-02 1.20e-02 -1.28e-02 1.34e-03 2.90e-02 2.20e-04 5.61e-02  
## 2303 1.06e-02 1.12e-02 -9.53e-03 1.13e-02 -1.36e-03 -4.94e-03 4.75e-02  
## 2304 -4.50e-04 -1.40e-03 -1.21e-03 -2.04e-03 -3.27e-04 2.71e-03 9.02e-03  
## 2305 1.64e-02 1.32e-02 -4.24e-03 -1.02e-03 7.37e-03 8.09e-03 3.32e-02  
## 2306 8.57e-04 -4.75e-04 1.32e-03 1.21e-03 1.27e-04 1.34e-03 -6.34e-03  
## 2307 -4.28e-03 -1.97e-02 -4.46e-03 6.84e-03 -1.20e-03 1.32e-03 5.04e-02  
## 2308 -5.95e-04 1.38e-03 1.89e-03 2.84e-03 -2.67e-03 2.17e-03 9.61e-03  
## 2309 -2.04e-03 4.54e-06 -5.66e-03 -3.10e-03 4.56e-03 9.89e-04 4.10e-02  
## 2310 2.38e-03 -1.36e-03 3.52e-03 3.29e-03 5.46e-03 -2.89e-03 -1.35e-02  
## 2311 -9.89e-03 7.52e-04 -5.87e-03 -1.12e-02 -9.61e-03 6.58e-04 3.56e-02  
## 2312 -2.37e-03 -5.24e-03 4.29e-03 3.58e-03 -9.70e-03 7.68e-03 2.04e-02  
## 2313 1.91e-06 1.87e-04 1.22e-04 3.40e-04 4.69e-05 -2.19e-04 8.24e-04  
## 2314 -6.62e-04 -2.96e-04 -3.74e-04 2.56e-04 -2.06e-04 -3.77e-04 -1.30e-03  
## 2315 -1.59e-02 -5.23e-03 3.30e-02 2.89e-03 3.01e-02 -1.54e-02 7.99e-02  
## 2316 1.88e-03 -1.29e-03 2.33e-03 5.42e-05 2.97e-03 -1.45e-04 -8.04e-03  
## 2317 1.98e-02 -1.55e-02 -1.38e-03 -1.06e-02 -8.23e-03 1.14e-02 5.02e-02  
## 2318 -7.07e-06 -1.57e-03 -1.02e-03 9.61e-04 -9.02e-04 1.53e-03 -7.34e-03  
## 2319 9.33e-03 1.05e-02 4.22e-03 7.17e-03 -3.77e-04 5.61e-03 -4.95e-02  
## 2320 -1.73e-02 5.01e-03 7.99e-03 -6.34e-03 -9.60e-03 1.29e-02 -7.32e-02  
## 2321 -2.74e-03 -6.17e-03 -1.01e-02 -2.07e-03 -1.37e-02 9.76e-03 2.67e-02  
## 2322 3.98e-05 -2.15e-03 4.28e-03 3.46e-05 -8.15e-04 3.75e-03 1.03e-02  
## 2323 3.36e-02 -6.57e-03 -6.33e-03 -9.05e-03 1.17e-02 -8.05e-03 8.21e-02  
## 2324 -9.37e-03 -1.56e-02 3.67e-02 -2.43e-02 2.43e-03 -4.43e-03 7.90e-02  
## 2325 -5.44e-03 -4.50e-04 9.55e-03 4.68e-03 5.18e-03 4.01e-03 2.71e-02  
## 2326 -2.15e-02 -9.71e-03 1.32e-02 3.44e-03 -7.71e-03 -3.17e-03 4.52e-02  
## 2327 -1.07e-03 2.50e-03 -9.43e-03 7.76e-03 -8.48e-03 1.06e-03 2.61e-02  
## 2328 5.73e-03 -1.07e-04 -4.40e-03 -1.04e-03 -2.39e-03 -9.67e-04 1.99e-02  
## 2329 -2.94e-04 2.95e-03 -1.37e-03 1.23e-03 6.57e-04 5.91e-04 -5.38e-03  
## 2330 3.33e-02 5.73e-03 -5.43e-03 -1.44e-02 8.90e-03 -7.18e-03 8.96e-02  
## 2331 3.89e-03 -1.94e-03 -1.34e-02 1.12e-02 -6.55e-03 -1.43e-03 4.66e-02  
## 2332 -1.70e-02 -1.63e-03 9.91e-03 2.81e-02 -2.07e-02 -4.95e-03 -6.36e-02  
## 2333 7.33e-03 -8.90e-03 4.12e-03 2.28e-02 9.08e-03 -9.36e-03 -8.28e-02  
## 2334 3.16e-04 7.15e-04 -2.48e-03 4.31e-03 -4.33e-03 9.58e-03 -1.80e-02  
## 2335 9.45e-03 1.95e-04 1.39e-03 -4.00e-03 -1.65e-03 5.77e-03 -3.78e-02  
## 2336 -6.03e-03 -1.68e-03 4.31e-03 -1.18e-03 2.49e-03 -2.25e-03 2.07e-02  
## 2337 -1.08e-04 -6.14e-04 -1.12e-03 7.33e-04 1.73e-06 -1.18e-03 -3.08e-03  
## 2338 -1.01e-02 -1.84e-02 2.38e-02 -1.96e-02 9.51e-03 -9.50e-03 6.40e-02  
## 2339 4.65e-03 5.06e-03 -1.34e-02 1.35e-02 -8.84e-03 1.28e-02 5.41e-02  
## 2340 7.69e-03 1.73e-02 4.90e-03 7.34e-03 4.20e-03 2.17e-03 3.87e-02  
## 2341 -2.78e-03 -5.74e-03 -9.01e-03 -1.45e-02 -1.35e-02 9.99e-03 2.91e-02  
## 2342 -1.83e-03 5.92e-03 -2.63e-03 3.61e-04 2.05e-03 6.31e-03 1.84e-02  
## 2343 -1.19e-03 3.34e-03 2.96e-03 4.02e-03 -6.81e-03 5.02e-03 2.12e-02  
## 2344 1.50e-03 -6.11e-03 2.53e-03 -2.55e-03 1.45e-03 -2.69e-03 1.31e-02  
## 2345 -3.24e-03 -1.49e-03 -2.13e-03 1.47e-03 -2.12e-03 -2.04e-03 -7.90e-03  
## 2346 3.32e-02 9.94e-03 -9.10e-03 3.71e-03 2.16e-02 -1.69e-02 8.06e-02  
## 2347 -3.67e-03 -4.52e-03 -3.15e-03 4.40e-03 -1.99e-03 1.59e-03 -1.58e-02  
## 2348 -3.05e-03 -5.79e-03 -9.02e-03 -1.46e-02 -1.42e-02 8.47e-03 2.66e-02  
## 2349 -3.19e-02 1.06e-02 -1.17e-02 1.49e-03 2.95e-02 -1.23e-02 7.43e-02  
## 2350 1.23e-04 4.52e-03 6.16e-04 1.42e-03 -9.67e-04 2.49e-03 7.83e-03  
## 2351 -2.29e-03 -4.29e-03 4.60e-03 3.52e-03 -9.16e-04 1.19e-05 -1.66e-02  
## 2352 2.28e-03 -8.76e-03 -6.03e-03 -2.73e-03 -2.76e-03 8.91e-04 2.88e-02  
## 2353 4.63e-04 2.18e-04 -3.20e-04 -5.41e-04 2.23e-04 5.93e-05 -1.36e-03  
## 2354 3.68e-05 1.80e-04 -1.17e-04 -1.03e-04 -5.43e-06 2.24e-04 -6.12e-04  
## 2355 5.96e-03 -1.05e-02 -6.24e-03 -1.10e-02 -1.40e-02 -5.80e-03 3.98e-02  
## 2356 8.83e-05 -8.47e-04 -1.75e-03 7.87e-04 -2.51e-03 5.18e-03 -1.16e-02  
## 2357 -7.18e-03 -2.31e-03 -2.39e-02 -1.81e-02 3.03e-03 -2.23e-02 -8.72e-02  
## 2358 -1.54e-02 -1.47e-02 -7.31e-03 5.25e-03 7.80e-04 -5.99e-03 4.25e-02  
## 2359 3.33e-03 5.68e-03 -1.31e-02 -1.56e-03 -1.10e-02 1.44e-02 4.31e-02  
## 2360 1.74e-02 -2.12e-04 -1.09e-02 6.10e-03 1.41e-02 -1.81e-02 7.78e-02  
## 2361 2.99e-02 -1.22e-02 3.10e-02 -2.77e-02 1.05e-02 -1.67e-02 9.15e-02  
## 2362 -1.07e-02 -1.02e-02 6.25e-03 -6.81e-04 -1.36e-02 -2.86e-04 -4.08e-02  
## 2363 -1.99e-02 -3.62e-03 5.97e-03 1.01e-02 -1.47e-02 1.24e-02 -4.82e-02  
## 2364 9.12e-05 3.30e-04 -2.13e-04 2.39e-05 -1.33e-04 7.01e-04 1.36e-03  
## 2365 -1.48e-04 3.31e-04 3.92e-04 -2.88e-05 2.81e-04 4.15e-04 1.51e-03  
## 2366 8.02e-06 1.99e-04 -1.48e-04 -2.08e-04 -1.09e-04 3.32e-04 8.37e-04  
## 2367 -4.48e-03 -5.33e-03 -1.33e-02 -3.10e-03 -2.39e-02 1.22e-02 4.05e-02  
## 2368 3.92e-03 -7.69e-04 -6.04e-03 -1.53e-04 5.21e-03 -1.46e-03 -1.88e-02  
## 2369 -9.24e-05 1.12e-04 1.36e-04 -4.83e-06 -4.01e-05 3.38e-05 -6.21e-04  
## 2370 -2.49e-03 -4.77e-03 4.02e-03 3.19e-03 -1.05e-02 8.60e-03 2.06e-02  
## 2371 3.53e-05 2.89e-04 -1.68e-04 -2.60e-04 -1.13e-04 5.05e-04 1.35e-03  
## 2372 1.17e-02 2.09e-02 -1.04e-02 1.26e-03 -5.27e-03 4.98e-04 5.21e-02  
## 2373 4.38e-04 -5.12e-03 -3.21e-03 1.83e-03 -1.26e-03 -1.13e-03 1.48e-02  
## 2374 -2.18e-02 9.58e-03 1.11e-02 -1.04e-02 -2.58e-02 -6.13e-03 -7.11e-02  
## 2375 1.08e-02 1.22e-02 -3.31e-02 2.31e-02 1.37e-03 8.54e-03 -7.32e-02  
## 2376 -5.13e-03 -1.77e-02 -1.70e-03 -9.18e-03 -3.61e-03 4.93e-03 3.74e-02  
## 2377 -7.32e-04 2.61e-03 2.08e-03 2.81e-03 -3.93e-03 3.97e-03 1.19e-02  
## 2378 2.41e-03 1.20e-03 3.50e-03 -2.08e-03 2.56e-03 -1.75e-03 1.62e-02  
## 2379 7.79e-03 -4.60e-03 -1.13e-02 2.12e-03 -3.71e-04 1.15e-02 5.21e-02  
## 2380 -1.63e-02 -1.52e-02 -4.45e-03 -3.35e-03 -2.35e-03 7.37e-03 6.49e-02  
## 2381 6.06e-03 1.43e-03 1.33e-02 9.19e-03 -7.86e-04 1.38e-02 5.79e-02  
## 2382 1.38e-03 -6.90e-03 5.81e-03 7.24e-03 3.49e-04 -1.04e-03 2.16e-02  
## 2383 -2.00e-02 -1.97e-03 4.09e-02 4.51e-03 2.66e-02 -5.44e-02 1.09e-01  
## 2384 -3.36e-02 4.47e-03 -1.31e-02 -6.62e-04 -1.40e-02 7.63e-03 5.89e-02  
## 2385 2.49e-03 4.98e-03 -3.71e-03 -2.86e-03 4.05e-03 -2.17e-03 -1.35e-02  
## 2386 -5.39e-04 1.92e-03 1.74e-03 -8.18e-04 -3.57e-03 4.37e-03 1.14e-02  
## 2387 1.21e-02 1.11e-03 -1.15e-02 9.99e-04 -1.99e-02 2.11e-03 6.51e-02  
## 2388 3.43e-02 -5.03e-03 -7.86e-03 -1.19e-02 1.35e-02 -1.35e-02 7.50e-02  
## 2389 8.54e-03 -1.08e-02 1.31e-02 -3.04e-02 -1.33e-02 1.03e-02 -8.26e-02  
## 2390 7.96e-03 8.86e-04 -3.26e-03 1.39e-04 4.85e-03 5.15e-03 2.50e-02  
## 2391 3.69e-02 2.44e-02 -7.56e-03 1.08e-02 1.12e-02 -1.30e-03 7.81e-02  
## 2392 -1.55e-02 1.06e-02 1.90e-02 -3.82e-03 9.65e-03 -2.77e-03 5.65e-02  
## 2393 1.00e-02 -3.84e-03 4.05e-03 -4.71e-04 -1.10e-02 1.16e-02 -3.51e-02  
## 2394 7.32e-03 4.47e-03 -1.31e-02 1.18e-02 -6.11e-03 1.66e-02 6.65e-02  
## 2395 -1.74e-02 -6.83e-03 -1.03e-02 -2.92e-02 -1.84e-02 3.55e-03 8.27e-02  
## 2396 -1.78e-02 -1.45e-02 1.72e-02 -2.23e-02 2.04e-02 -2.04e-02 7.34e-02  
## 2397 1.72e-03 -4.21e-03 -8.97e-03 1.01e-03 -8.65e-03 -6.47e-04 5.35e-02  
## 2398 -2.08e-03 -5.61e-03 3.14e-03 2.92e-03 -7.29e-03 6.02e-03 1.89e-02  
## 2399 3.18e-03 4.63e-03 2.78e-03 3.04e-03 5.50e-03 -7.99e-04 -1.38e-02  
## 2400 1.72e-02 5.81e-03 -6.18e-03 -2.92e-03 7.84e-03 -3.54e-04 4.18e-02  
## 2401 8.70e-03 3.25e-03 5.77e-03 -2.93e-03 -1.29e-02 1.59e-02 -5.01e-02  
## 2402 1.07e-02 -3.22e-03 3.14e-03 -1.86e-03 -1.29e-02 1.74e-02 -4.35e-02  
## 2403 -1.33e-02 -8.54e-03 8.56e-03 -1.42e-03 -2.02e-02 4.70e-04 -4.67e-02  
## 2404 -4.93e-05 -8.20e-04 -3.99e-04 -1.23e-03 -4.81e-04 6.76e-04 -2.89e-03  
## 2405 -7.46e-03 1.68e-03 -7.40e-03 -4.94e-03 -2.92e-03 -6.80e-03 4.27e-02  
## 2406 1.25e-02 -1.04e-02 1.99e-02 7.72e-03 1.37e-02 2.63e-05 4.85e-02  
## 2407 7.26e-05 -6.68e-05 1.04e-04 -8.44e-05 8.35e-05 -2.96e-06 -4.43e-04  
## 2408 -2.42e-02 -2.87e-03 -3.27e-02 -4.62e-02 -2.87e-02 1.92e-02 -1.49e-01  
## 2409 -7.75e-03 1.51e-02 4.56e-03 -5.45e-03 4.89e-03 -6.44e-04 3.67e-02  
## 2410 -8.34e-04 8.95e-04 -5.66e-03 -7.02e-03 -4.92e-03 1.75e-03 1.49e-02  
## 2411 1.17e-02 1.30e-02 1.98e-03 5.25e-03 1.67e-03 -3.30e-03 -6.36e-02  
## 2412 -7.16e-03 2.10e-02 -7.30e-03 -2.59e-02 1.13e-02 -8.28e-03 6.75e-02  
## 2413 5.76e-03 -4.10e-03 1.15e-02 -1.85e-04 5.78e-04 4.13e-03 4.43e-02  
## 2414 1.89e-02 -3.11e-03 -6.11e-03 -2.47e-02 5.81e-03 -6.22e-03 7.61e-02  
## 2415 4.42e-03 5.41e-03 5.76e-03 -1.07e-02 -6.90e-04 1.89e-03 2.65e-02  
## 2416 1.15e-02 -4.17e-03 1.29e-02 -1.25e-02 -4.43e-03 9.07e-03 5.95e-02  
## 2417 -1.17e-02 -1.70e-02 -4.92e-03 -7.15e-03 -9.04e-04 -6.69e-03 4.22e-02  
## 2418 1.93e-02 1.91e-02 -1.20e-02 5.01e-04 2.51e-02 1.99e-05 7.53e-02  
## 2419 -5.61e-04 1.40e-03 2.02e-03 3.06e-03 -2.80e-03 2.37e-03 1.01e-02  
## 2420 1.57e-04 -5.08e-02 1.56e-02 2.92e-02 -4.26e-03 -2.92e-02 -1.16e-01  
## 2421 -2.54e-03 -8.65e-03 -7.61e-03 2.32e-04 -8.20e-03 4.99e-04 1.87e-02  
## 2422 8.51e-03 -3.77e-03 -1.05e-02 -8.84e-03 -6.52e-03 3.81e-03 5.90e-02  
## 2423 3.29e-02 -4.72e-03 -2.38e-02 3.81e-03 6.13e-03 -2.30e-02 -8.50e-02  
## 2424 1.03e-02 2.08e-02 5.56e-03 2.51e-02 9.31e-04 -1.48e-03 -7.80e-02  
## 2425 7.07e-03 9.92e-04 -4.02e-03 -4.47e-04 3.22e-03 1.51e-03 2.46e-02  
## 2426 3.98e-03 1.16e-02 -6.55e-03 6.51e-03 1.94e-03 -3.45e-04 2.24e-02  
## 2427 -9.79e-03 -1.24e-02 1.49e-02 -1.37e-02 1.60e-02 -3.16e-02 -8.30e-02  
## 2428 -9.82e-04 -2.30e-03 3.27e-03 2.15e-03 -2.99e-03 -3.71e-03 1.54e-02  
## 2429 -1.25e-02 7.09e-03 8.10e-03 9.24e-03 4.19e-03 -3.48e-03 4.55e-02  
## 2430 -2.05e-03 -5.63e-03 3.45e-03 3.31e-03 -8.60e-03 7.59e-03 2.04e-02  
## 2431 1.24e-02 -7.27e-03 -1.03e-02 -9.90e-03 -1.15e-02 1.02e-03 5.71e-02  
## 2432 1.20e-02 -6.57e-03 -8.71e-03 -6.99e-03 1.34e-02 -2.19e-03 5.99e-02  
## 2433 2.29e-03 -3.80e-03 8.81e-03 6.50e-04 -2.44e-03 -5.55e-03 3.66e-02  
## 2434 1.47e-02 8.20e-03 5.70e-03 2.29e-02 -9.88e-03 2.71e-02 -7.02e-02  
## 2435 -4.17e-04 3.71e-04 1.11e-03 -4.03e-03 -1.91e-03 1.72e-03 7.08e-03  
## 2436 -1.81e-03 -7.59e-03 -5.24e-03 -3.05e-03 -5.23e-03 -2.40e-04 1.43e-02  
## 2437 3.46e-02 1.29e-02 3.94e-02 2.28e-02 3.53e-02 -1.51e-02 1.00e-01  
## 2438 -1.30e-02 -5.32e-03 2.60e-03 -1.62e-03 -6.19e-03 6.98e-03 -3.61e-02  
## 2439 1.07e-05 1.66e-04 2.44e-04 -4.44e-07 2.55e-05 3.08e-04 7.39e-04  
## 2440 1.23e-02 4.14e-03 9.00e-04 -6.78e-03 2.26e-03 5.20e-03 -5.12e-02  
## 2441 1.10e-02 -9.28e-03 1.44e-02 1.50e-02 2.16e-02 -2.17e-03 4.82e-02  
## 2442 -1.97e-02 -3.24e-05 4.07e-03 8.52e-03 -1.02e-02 1.26e-02 -5.29e-02  
## 2443 2.12e-02 4.67e-03 -1.34e-02 2.62e-03 2.65e-02 -8.99e-03 6.64e-02  
## 2444 8.61e-03 8.38e-05 1.50e-03 -3.74e-03 -1.58e-03 1.72e-02 -4.28e-02  
## 2445 1.22e-02 -6.40e-03 -1.05e-02 -2.21e-02 -1.34e-02 2.08e-03 5.80e-02  
## 2446 7.84e-05 2.00e-04 -2.04e-04 -2.62e-04 -5.07e-05 6.30e-04 1.27e-03  
## 2447 1.49e-02 -1.57e-02 -3.15e-02 -9.42e-03 -2.81e-02 2.26e-02 -9.29e-02  
## 2448 -1.13e-02 -5.38e-03 5.56e-03 9.18e-03 -8.13e-03 -6.65e-04 -4.52e-02  
## 2449 1.96e-02 1.84e-02 -1.04e-02 3.63e-03 1.90e-02 -5.16e-03 8.16e-02  
## 2450 9.85e-05 -2.63e-04 -1.09e-03 -1.49e-03 -8.07e-04 3.30e-03 -6.89e-03  
## 2451 2.30e-02 1.47e-03 7.70e-03 -2.93e-03 -2.08e-02 2.32e-02 -6.84e-02  
## 2452 -2.75e-06 1.05e-04 5.89e-05 1.67e-04 1.34e-05 -1.02e-04 4.20e-04  
## 2453 2.06e-02 4.75e-03 -4.19e-03 7.83e-03 3.90e-03 6.24e-03 4.46e-02  
## 2454 -1.28e-03 2.39e-02 -6.40e-03 -1.67e-03 2.27e-03 5.88e-03 5.00e-02  
## 2455 -3.04e-03 -5.96e-03 -9.72e-03 -8.77e-03 -1.42e-02 8.31e-03 2.51e-02  
## 2456 -1.30e-05 -1.08e-03 -6.11e-04 -1.98e-03 -7.75e-04 1.34e-03 -4.60e-03  
## 2457 5.81e-04 3.29e-03 -1.55e-03 2.09e-03 -6.65e-04 4.22e-03 -9.00e-03  
## 2458 -2.35e-02 -6.60e-03 -9.77e-03 -1.90e-02 -6.83e-03 -1.03e-02 5.36e-02  
## 2459 -3.35e-02 6.81e-03 -8.87e-03 -3.75e-02 1.93e-02 -1.46e-02 9.54e-02  
## 2460 -1.04e-02 -8.29e-03 5.81e-03 -1.35e-03 -1.52e-02 4.37e-03 -3.47e-02  
## 2461 3.22e-02 -6.74e-03 1.38e-02 3.66e-02 1.64e-02 -2.51e-02 -8.68e-02  
## 2462 -3.35e-05 -9.26e-04 -1.20e-03 -4.08e-03 -2.29e-03 4.00e-03 -9.34e-03  
## 2463 -3.52e-03 2.72e-04 -4.84e-03 7.13e-03 3.75e-03 7.39e-03 4.06e-02  
## 2464 2.32e-02 -1.86e-03 1.04e-02 6.72e-04 1.76e-02 -1.72e-03 -8.35e-02  
## 2465 -4.59e-04 -7.76e-05 1.53e-03 2.71e-03 -1.26e-03 6.46e-05 7.15e-03  
## 2466 -1.07e-05 1.29e-04 -3.78e-04 -3.85e-06 -2.64e-05 -4.46e-04 1.11e-03  
## 2467 1.52e-02 2.62e-02 2.99e-03 4.13e-03 9.02e-03 -1.07e-02 -7.80e-02  
## 2468 -5.29e-03 -3.27e-03 -4.81e-03 -4.23e-04 -3.62e-04 2.41e-03 -2.15e-02  
## 2469 -1.96e-03 -6.00e-03 3.37e-03 3.47e-03 -7.74e-03 6.34e-03 1.92e-02  
## 2470 -7.43e-03 -1.75e-02 -2.87e-03 1.03e-02 -2.56e-03 -9.78e-04 5.24e-02  
## 2471 -5.74e-04 1.34e-03 1.13e-03 1.71e-03 1.57e-03 2.68e-04 4.87e-03  
## 2472 2.68e-03 -1.96e-03 4.01e-03 -7.29e-03 3.39e-03 -2.86e-04 -1.61e-02  
## 2473 -3.20e-02 5.25e-03 -1.41e-02 2.16e-02 3.27e-02 -2.49e-02 8.89e-02  
## 2474 3.25e-03 1.77e-03 1.26e-02 9.60e-03 -4.15e-03 1.12e-02 3.84e-02  
## 2475 1.61e-03 -1.09e-03 1.09e-03 9.01e-05 4.23e-04 1.07e-04 -4.25e-03  
## 2476 1.27e-02 2.50e-02 1.03e-03 2.23e-02 1.66e-02 -2.51e-02 -8.57e-02  
## 2477 -5.77e-05 3.82e-04 4.35e-04 -6.23e-04 -1.35e-04 -7.74e-04 2.50e-03  
## 2478 3.92e-03 4.87e-03 -1.29e-02 -2.68e-04 -1.11e-02 1.43e-02 5.13e-02  
## 2479 -3.65e-02 2.81e-02 9.09e-03 -1.51e-02 1.81e-03 6.24e-03 -1.05e-01  
## 2480 -1.78e-03 -6.38e-03 3.07e-03 3.48e-03 -5.96e-03 3.95e-03 1.65e-02  
## 2481 -1.60e-02 -8.04e-04 8.21e-03 -4.56e-03 -1.54e-02 8.30e-03 -5.09e-02  
## 2482 -1.48e-02 1.19e-02 -8.95e-03 7.98e-03 2.01e-02 -3.93e-03 6.34e-02  
## 2483 5.02e-04 -4.42e-03 3.67e-03 -5.50e-03 -9.50e-04 -1.87e-03 1.43e-02  
## 2484 -1.58e-02 3.60e-02 2.63e-02 -1.13e-02 1.42e-02 6.04e-03 -1.13e-01  
## 2485 4.04e-03 3.27e-03 2.53e-03 -2.55e-03 3.02e-03 6.36e-04 -1.06e-02  
## 2486 -1.20e-03 2.10e-02 1.53e-02 1.57e-02 1.83e-02 1.26e-03 5.42e-02  
## 2487 -1.02e-03 -5.65e-03 2.01e-03 -1.44e-03 -1.88e-03 -1.69e-03 9.41e-03  
## 2488 2.67e-02 1.92e-02 1.67e-02 -2.89e-03 1.42e-02 9.52e-03 -1.08e-01  
## 2489 -3.63e-02 8.90e-03 -8.64e-03 6.43e-03 2.39e-02 -3.23e-02 1.02e-01  
## 2490 -2.12e-02 1.19e-02 -3.21e-02 1.01e-02 -2.52e-02 -6.31e-03 -7.12e-02  
## 2491 -6.19e-04 -7.38e-04 -4.17e-03 -1.76e-03 -2.48e-03 -8.55e-04 9.93e-03  
## 2492 3.34e-05 3.08e-03 6.40e-04 -1.50e-03 -7.30e-04 1.28e-03 5.16e-03  
## 2493 -2.29e-03 -5.48e-03 4.22e-03 3.95e-03 -1.04e-02 8.01e-03 2.39e-02  
## 2494 1.70e-03 -7.20e-03 -6.30e-03 2.67e-03 -4.13e-03 -2.75e-03 2.98e-02  
## 2495 2.29e-03 -2.00e-04 1.95e-03 2.84e-03 -1.12e-04 -1.19e-03 9.72e-03  
## 2496 -2.44e-04 -1.70e-04 2.50e-04 1.33e-04 -8.90e-05 4.69e-05 9.44e-04  
## 2497 1.23e-04 4.45e-04 -2.01e-03 -3.41e-03 -4.45e-03 8.71e-03 -1.55e-02  
## 2498 5.47e-05 3.51e-04 -1.96e-04 1.94e-05 9.05e-06 4.31e-04 -9.84e-04  
## 2499 9.16e-05 3.43e-04 -2.66e-04 6.33e-04 9.39e-05 2.43e-04 -1.36e-03  
## 2500 -1.29e-02 -6.41e-03 1.24e-02 -7.35e-04 -2.49e-02 8.25e-03 -5.70e-02  
## 2501 -5.29e-04 -6.78e-04 -3.35e-03 -3.76e-03 -2.03e-03 -4.23e-05 8.01e-03  
## 2502 7.11e-05 -1.53e-04 -5.04e-04 5.54e-04 3.31e-05 1.15e-03 -2.89e-03  
## 2503 1.09e-05 -5.43e-05 2.33e-04 -1.58e-04 -6.67e-06 3.14e-04 -7.09e-04  
## 2504 8.86e-04 6.51e-03 -2.32e-03 -1.43e-04 6.17e-05 6.34e-03 1.84e-02  
## 2505 2.75e-05 -1.25e-04 6.38e-04 4.13e-04 2.77e-05 8.65e-04 -2.05e-03  
## 2506 -1.00e-02 -8.38e-03 7.06e-03 -1.19e-02 -1.45e-02 4.54e-03 -3.75e-02  
## 2507 -1.28e-02 1.09e-02 1.70e-02 -1.75e-02 1.45e-02 -3.49e-03 6.27e-02  
## 2508 -9.44e-03 1.43e-03 -6.21e-03 -8.07e-03 -3.92e-03 -2.30e-03 2.55e-02  
## 2509 2.06e-05 -1.38e-03 -9.23e-04 -3.14e-03 -1.26e-03 2.33e-03 -7.24e-03  
## 2510 2.11e-02 3.67e-04 3.32e-03 -6.20e-03 -4.73e-03 8.66e-03 -5.46e-02  
## 2511 1.34e-04 2.31e-03 -1.29e-03 -2.03e-03 -3.55e-04 2.54e-03 7.92e-03  
## 2512 7.82e-03 -1.71e-03 9.99e-04 -3.02e-03 -3.41e-03 6.70e-03 -3.28e-02  
## 2513 -1.07e-02 -1.05e-02 6.50e-03 2.40e-02 -1.18e-02 -2.00e-03 -4.96e-02  
## 2514 -1.88e-02 -6.13e-03 -3.31e-03 -2.98e-02 3.75e-03 -1.49e-02 7.40e-02  
## 2515 4.01e-02 7.93e-03 -1.06e-02 5.06e-03 2.67e-02 -3.57e-02 1.09e-01  
## 2516 -1.09e-03 1.53e-03 1.11e-03 1.80e-03 1.58e-04 -1.29e-03 5.29e-03  
## 2517 2.08e-02 6.08e-03 4.00e-03 6.07e-03 -2.02e-03 -5.36e-03 -6.02e-02  
## 2518 -5.08e-03 -3.71e-03 -4.42e-03 9.54e-03 -5.73e-03 -2.26e-03 2.41e-02  
## 2519 -8.24e-06 -1.33e-03 -8.15e-04 7.45e-04 -6.85e-04 1.32e-03 -5.04e-03  
## 2520 2.43e-04 4.73e-04 -2.47e-03 4.94e-04 -4.43e-03 8.93e-03 -2.01e-02  
## 2521 6.25e-04 -7.35e-04 6.70e-04 -4.95e-05 -4.35e-04 -9.88e-04 -3.61e-03  
## 2522 1.11e-02 2.02e-02 -1.78e-02 -1.37e-02 4.71e-02 -3.93e-02 -9.20e-02  
## 2523 1.78e-02 -3.28e-03 5.29e-03 -2.56e-03 -9.63e-03 6.38e-03 -3.99e-02  
## 2524 -2.06e-02 -3.85e-03 5.67e-03 2.41e-02 -1.43e-02 2.89e-03 -5.13e-02  
## 2525 5.50e-02 -3.74e-05 -3.26e-02 1.10e-02 1.92e-02 7.92e-03 -1.50e-01  
## 2526 -1.29e-02 -1.02e-02 -8.72e-03 5.31e-03 2.50e-02 -3.92e-02 8.81e-02  
## 2527 5.73e-06 -2.04e-05 9.69e-05 -4.43e-06 -1.79e-06 1.40e-04 -3.01e-04  
## 2528 -2.30e-03 5.18e-03 -4.54e-03 -1.63e-02 5.97e-03 3.58e-04 5.80e-02  
## 2529 -1.50e-03 1.68e-03 2.26e-03 -8.16e-05 2.14e-03 -1.27e-03 1.03e-02  
## 2530 -1.34e-03 -1.38e-03 -1.30e-03 9.17e-05 -8.27e-05 2.16e-03 8.56e-03  
## 2531 8.12e-04 -8.69e-04 8.76e-04 9.70e-04 2.20e-03 -7.50e-04 -4.86e-03  
## 2532 7.75e-03 -4.08e-03 -2.18e-02 5.57e-02 3.57e-02 -9.15e-03 -1.10e-01  
## 2533 -1.95e-04 -1.44e-03 -3.05e-03 2.13e-03 2.77e-04 -3.61e-03 -8.95e-03  
## 2534 1.25e-02 1.50e-02 -7.55e-03 3.46e-03 6.30e-03 3.85e-04 3.76e-02  
## 2535 1.02e-05 -3.86e-04 -1.16e-03 1.94e-04 -7.88e-04 2.88e-03 -6.62e-03  
## 2536 9.67e-06 3.26e-04 -2.52e-04 6.51e-06 -1.44e-04 5.21e-04 1.39e-03  
## 2537 -9.73e-04 1.01e-03 -1.72e-03 1.87e-04 4.38e-04 -9.01e-04 8.27e-03  
## 2538 -8.58e-03 1.52e-03 -6.56e-03 1.11e-02 -2.11e-03 -1.08e-03 3.70e-02  
## 2539 1.49e-02 5.49e-03 -2.32e-02 -1.67e-02 -1.60e-02 2.21e-02 -6.54e-02  
## 2540 -1.61e-02 1.06e-02 1.42e-02 3.39e-03 -7.86e-03 -1.41e-02 6.14e-02  
## 2541 -2.36e-03 1.96e-03 1.69e-03 1.63e-03 9.06e-04 3.13e-04 -7.48e-03  
## 2542 -1.37e-02 -1.26e-02 -6.83e-03 -5.65e-03 -9.87e-03 -4.66e-03 3.92e-02  
## 2543 -3.18e-04 -4.40e-04 -2.86e-04 -5.85e-04 -5.56e-04 3.99e-04 -1.74e-03  
## 2544 1.83e-02 1.26e-02 -1.04e-02 -1.71e-02 2.07e-02 3.21e-03 7.11e-02  
## 2545 -2.47e-03 -4.85e-03 4.20e-03 3.34e-03 -1.04e-02 8.57e-03 2.10e-02  
## 2546 -3.48e-05 -1.03e-03 -9.84e-04 -3.28e-03 -1.62e-03 2.85e-03 -7.45e-03  
## 2547 -2.06e-03 -5.70e-03 3.55e-03 -9.99e-03 -7.85e-03 4.81e-03 1.74e-02  
## 2548 -4.61e-04 -1.78e-03 2.11e-03 1.41e-03 -1.14e-03 -2.49e-03 9.45e-03  
## 2549 -3.54e-03 -4.60e-03 5.95e-03 -3.24e-03 -1.61e-02 1.13e-02 3.20e-02  
## 2550 5.56e-03 -4.57e-03 -1.12e-02 1.34e-02 -7.07e-03 2.69e-03 4.45e-02  
## 2551 9.01e-03 -2.71e-03 -1.15e-02 7.09e-04 -1.08e-02 -3.36e-04 5.14e-02  
## 2552 1.38e-02 -1.40e-02 -8.35e-03 1.92e-02 8.62e-03 -2.61e-03 5.31e-02  
## 2553 3.59e-03 2.44e-03 1.32e-02 9.88e-03 -3.33e-03 1.09e-02 3.96e-02  
## 2554 -3.89e-04 -7.34e-04 1.21e-03 2.35e-03 -3.71e-04 -1.17e-03 5.79e-03  
## 2555 5.23e-05 2.38e-04 -1.71e-04 2.52e-04 -8.92e-05 4.70e-04 1.02e-03  
## 2556 3.37e-02 2.54e-02 1.11e-02 -1.44e-02 -6.63e-03 6.57e-03 -9.43e-02  
## 2557 2.96e-03 1.56e-03 -9.87e-04 7.99e-05 4.03e-04 1.78e-03 5.63e-03  
## 2558 -8.44e-04 9.70e-04 1.91e-03 -1.51e-03 1.41e-03 -5.14e-04 7.82e-03  
## 2559 1.00e-02 6.60e-03 -2.70e-02 -1.90e-02 -6.17e-03 1.78e-02 -6.37e-02  
## 2560 2.22e-02 -1.50e-02 1.56e-02 1.26e-02 1.82e-02 1.93e-02 -8.90e-02  
## 2561 -1.05e-04 1.09e-02 -7.42e-03 -8.97e-03 -6.04e-03 4.92e-03 2.28e-02  
## 2562 3.05e-03 -1.53e-03 -5.01e-03 4.23e-03 4.28e-03 -1.65e-03 -1.56e-02  
## 2563 -4.61e-02 3.55e-02 7.35e-03 -1.98e-02 4.15e-03 -1.51e-02 -1.03e-01  
## 2564 6.06e-05 2.91e-03 4.64e-04 1.18e-03 -4.69e-04 1.26e-03 5.22e-03  
## 2565 7.08e-05 -2.11e-04 -1.45e-03 -4.57e-05 -7.30e-04 3.90e-03 -8.45e-03  
## 2566 1.17e-02 7.68e-03 3.43e-03 7.25e-03 -2.36e-03 1.33e-03 -5.08e-02  
## 2567 1.31e-03 1.60e-02 -6.43e-03 6.12e-03 1.18e-02 3.03e-03 3.86e-02  
## 2568 1.09e-04 -2.36e-04 -1.46e-03 1.91e-03 -6.33e-04 3.86e-03 -8.56e-03  
## 2569 3.86e-02 -5.19e-03 1.55e-02 -1.64e-02 1.55e-02 -7.94e-03 -6.96e-02  
## 2570 1.13e-02 8.62e-03 8.97e-04 2.07e-02 4.73e-03 -6.48e-03 -5.89e-02  
## 2571 -1.28e-03 -5.57e-03 2.18e-03 -4.54e-03 -2.76e-03 -8.94e-04 1.00e-02  
## 2572 -1.81e-03 -1.60e-02 -2.27e-03 -9.31e-03 -9.46e-04 6.25e-03 3.60e-02  
## 2573 7.67e-03 -3.32e-03 2.12e-03 -1.20e-03 -7.07e-03 1.14e-02 -2.82e-02  
## 2574 9.16e-03 2.28e-02 6.00e-03 -9.63e-03 -7.32e-03 1.40e-02 -8.52e-02  
## 2575 2.31e-05 -1.27e-03 -6.90e-04 6.52e-04 -3.72e-04 1.02e-03 -4.13e-03  
## 2576 -1.30e-02 -1.70e-02 -3.14e-03 9.46e-03 6.39e-03 -9.43e-03 9.55e-02  
## 2577 -2.17e-03 -5.63e-03 3.69e-03 -6.37e-03 -8.17e-03 5.32e-03 1.69e-02  
## 2578 -1.82e-02 -6.71e-03 -6.92e-03 7.17e-03 1.63e-02 -4.19e-02 1.03e-01  
## 2579 -2.92e-03 -1.75e-03 -1.94e-03 2.01e-03 4.89e-04 -2.02e-05 -9.71e-03  
## 2580 2.58e-03 -6.31e-03 -2.36e-03 -5.02e-04 -3.46e-03 -9.20e-04 1.59e-02  
## 2581 7.54e-06 3.03e-04 1.00e-04 2.61e-04 2.34e-05 -4.50e-05 6.94e-04  
## 2582 -8.67e-04 -5.12e-03 1.46e-03 2.62e-03 -8.05e-04 -2.08e-03 8.11e-03  
## 2583 -2.83e-04 -1.95e-04 7.27e-04 -1.19e-03 -7.43e-04 3.61e-04 4.15e-03  
## 2584 3.19e-03 -4.47e-03 1.00e-02 1.81e-04 -2.36e-03 4.14e-03 3.20e-02  
## 2585 -8.75e-03 -8.73e-03 4.48e-03 -1.21e-03 -9.61e-03 3.11e-03 -3.59e-02  
## 2586 -2.09e-02 -8.67e-03 2.69e-02 -2.30e-02 9.78e-03 -1.07e-02 7.77e-02  
## 2587 -7.59e-03 -1.81e-02 -2.22e-03 9.53e-03 -2.15e-03 8.57e-03 4.95e-02  
## 2588 -2.17e-03 -6.32e-03 3.78e-03 3.95e-03 -7.75e-03 4.61e-03 1.71e-02  
## 2589 4.68e-05 -8.13e-04 -1.96e-03 4.02e-03 -2.27e-03 4.92e-03 -1.27e-02  
## 2590 4.22e-04 4.61e-03 -1.89e-03 -3.49e-03 -1.10e-03 5.31e-03 1.44e-02  
## 2591 -2.82e-04 3.48e-04 -4.01e-04 -4.24e-04 -6.41e-04 3.43e-04 2.24e-03  
## 2592 8.64e-03 1.01e-02 -8.07e-03 -5.97e-03 -4.88e-03 7.04e-04 4.03e-02  
## 2593 -7.97e-04 -1.73e-03 -2.22e-03 4.12e-03 -3.18e-03 7.00e-03 1.78e-02  
## 2594 2.19e-02 4.69e-03 -1.31e-02 3.26e-03 2.65e-02 -7.83e-03 6.71e-02  
## 2595 8.07e-03 -2.38e-03 6.70e-03 -5.93e-04 3.13e-03 9.62e-04 -2.45e-02  
## 2596 1.79e-02 9.29e-03 2.69e-02 -6.25e-05 3.45e-02 -6.73e-04 5.81e-02  
## 2597 -3.15e-04 6.89e-04 -5.09e-04 -6.11e-04 2.15e-04 1.10e-03 3.32e-03  
## 2598 2.08e-04 -2.98e-03 -2.27e-03 5.04e-03 -1.64e-03 7.84e-03 2.16e-02  
## 2599 7.85e-06 3.81e-05 -2.69e-05 3.90e-05 -1.72e-05 8.12e-05 1.69e-04  
## 2600 -9.99e-03 -1.51e-02 3.25e-02 -2.56e-02 8.76e-03 -8.37e-03 7.04e-02  
## 2601 2.61e-04 1.12e-02 -7.39e-03 3.81e-03 -3.53e-03 4.56e-03 1.79e-02  
## 2602 -1.44e-02 -1.38e-02 2.59e-02 6.67e-03 8.61e-03 -1.39e-02 6.42e-02  
## 2603 -1.06e-02 -1.05e-02 6.65e-03 -2.51e-04 -1.36e-02 -1.38e-04 -4.14e-02  
## 2604 -1.36e-02 1.50e-02 2.84e-02 2.76e-04 6.21e-03 -1.71e-02 -1.20e-01  
## 2605 9.11e-03 3.71e-02 4.60e-03 -1.90e-02 1.37e-02 -1.56e-02 -8.83e-02  
## 2606 -2.05e-02 3.87e-02 -3.09e-02 1.28e-02 -1.32e-02 4.72e-03 -1.35e-01  
## 2607 -1.52e-02 -5.59e-03 9.78e-03 -2.56e-03 -2.15e-02 -1.45e-03 -5.14e-02  
## 2608 -1.90e-02 -1.33e-02 1.82e-02 -8.42e-03 -1.08e-02 -1.33e-02 5.96e-02  
## 2609 -9.24e-03 -8.58e-03 6.32e-03 -1.30e-02 -1.55e-02 1.19e-02 -4.56e-02  
## 2610 2.70e-02 2.11e-02 2.13e-02 -2.39e-04 -1.33e-02 -3.76e-02 -1.44e-01  
## 2611 2.46e-03 -1.85e-03 3.19e-03 3.22e-03 6.04e-03 -2.90e-03 -1.38e-02  
## 2612 -5.34e-03 -1.20e-04 2.19e-02 4.32e-02 1.89e-02 -2.51e-02 -9.19e-02  
## 2613 1.02e-02 1.44e-02 3.66e-02 -1.49e-02 5.33e-02 -3.79e-02 -9.18e-02  
## 2614 -3.39e-04 -1.49e-04 9.49e-04 5.34e-05 -1.02e-03 5.30e-04 4.83e-03  
## 2615 9.77e-03 1.73e-02 2.30e-03 -9.84e-03 3.54e-03 1.62e-02 -6.98e-02  
## 2616 7.68e-03 -1.03e-02 -8.13e-03 1.86e-03 -7.79e-03 -6.22e-03 3.60e-02  
## 2617 1.45e-03 -1.35e-03 1.91e-03 -1.41e-04 2.07e-03 -4.29e-04 -9.17e-03  
## 2618 5.49e-03 1.47e-02 -1.03e-02 4.97e-03 -6.21e-03 5.22e-03 5.34e-02  
## 2619 1.38e-02 1.15e-03 2.41e-02 -1.55e-02 3.07e-02 -1.30e-02 8.18e-02  
## 2620 4.56e-03 -9.69e-03 -9.51e-03 1.31e-02 -6.43e-03 -9.77e-03 4.98e-02  
## 2621 8.65e-03 -1.08e-02 -4.75e-03 6.39e-03 4.56e-03 3.52e-03 3.60e-02  
## 2622 -4.13e-03 -1.74e-03 3.10e-03 2.48e-03 1.55e-03 -3.57e-03 1.42e-02  
## 2623 -9.72e-06 3.47e-03 1.29e-03 -1.47e-03 -8.79e-04 -1.82e-04 7.69e-03  
## 2624 1.15e-02 -1.39e-03 -1.28e-02 1.73e-02 2.66e-02 -2.67e-02 7.52e-02  
## 2625 -1.50e-02 -7.35e-03 -2.29e-02 1.53e-02 -2.85e-02 5.39e-05 -5.14e-02  
## 2626 4.09e-03 3.68e-03 -2.27e-03 2.12e-05 3.32e-03 2.24e-03 1.15e-02  
## 2627 6.36e-03 -1.35e-03 1.77e-03 -2.28e-03 -2.83e-03 1.33e-02 -3.37e-02  
## 2628 -4.05e-03 5.02e-03 -3.02e-03 5.08e-03 -3.85e-04 -3.05e-04 1.47e-02  
## 2629 5.84e-03 -1.18e-03 -1.51e-03 -2.85e-03 -5.98e-05 3.47e-03 1.30e-02  
## 2630 -2.13e-02 -5.87e-04 7.05e-03 -1.56e-03 -1.98e-02 1.55e-02 -6.25e-02  
## 2631 1.88e-05 -2.90e-04 -3.52e-04 -9.67e-04 -2.50e-04 9.76e-04 -2.38e-03  
## 2632 1.03e-04 2.23e-03 -1.14e-03 1.37e-04 -1.62e-03 3.38e-03 8.53e-03  
## 2633 1.16e-03 1.35e-03 6.46e-04 -3.67e-04 1.20e-03 -2.14e-04 4.45e-03  
## 2634 4.71e-03 3.25e-03 1.18e-02 3.21e-02 -6.79e-03 -1.02e-02 -1.05e-01  
## 2635 -2.39e-03 1.29e-02 2.31e-02 -6.60e-03 2.00e-02 1.65e-03 -8.91e-02  
## 2636 -1.74e-02 -1.23e-02 -7.14e-03 -2.15e-02 1.17e-02 -1.56e-02 6.65e-02  
## 2637 4.55e-04 -4.03e-03 9.75e-03 -7.64e-03 -5.05e-03 -4.45e-03 4.10e-02  
## 2638 2.07e-02 2.54e-02 1.06e-02 -1.49e-02 -1.32e-02 -8.37e-03 -9.36e-02  
## 2639 2.27e-02 8.27e-03 6.70e-03 -8.29e-03 -8.91e-03 -1.68e-03 -5.75e-02  
## 2640 -1.36e-02 8.29e-03 2.05e-02 1.81e-02 1.37e-02 -5.43e-03 -1.03e-01  
## 2641 -2.41e-03 -4.63e-03 4.28e-03 -8.28e-03 -1.12e-02 9.50e-03 2.15e-02  
## 2642 -7.54e-04 1.34e-03 -9.63e-04 -1.74e-04 -7.22e-04 -3.28e-05 4.56e-03  
## 2643 -3.20e-03 -4.85e-03 -1.16e-02 4.93e-03 -1.66e-02 1.16e-02 2.90e-02  
## 2644 2.74e-03 -9.67e-03 -8.08e-03 3.98e-03 -7.81e-03 -2.92e-03 3.45e-02  
## 2645 3.63e-05 -4.28e-04 -7.27e-04 1.14e-04 -2.50e-04 1.73e-03 -4.15e-03  
## 2646 1.68e-02 -4.40e-03 -1.23e-02 -1.05e-02 1.55e-02 -1.36e-02 7.11e-02  
## 2647 1.12e-02 4.54e-03 4.88e-03 -4.52e-03 -1.17e-02 3.14e-03 -4.89e-02  
## 2648 -3.00e-02 1.93e-03 1.74e-02 1.19e-02 -5.86e-03 5.06e-03 5.58e-02  
## 2649 3.97e-03 -1.50e-03 -5.34e-03 1.28e-04 8.39e-04 -3.46e-03 -2.25e-02  
## 2650 8.61e-03 -3.83e-03 3.47e-03 -1.04e-03 -1.19e-02 1.18e-02 -3.81e-02  
## 2651 -1.79e-02 -1.78e-03 -2.22e-02 -1.42e-02 -2.07e-02 1.88e-02 -6.62e-02  
## 2652 -7.81e-03 2.21e-04 5.22e-03 2.37e-03 6.27e-04 -6.54e-04 1.93e-02  
## 2653 -2.46e-02 -9.92e-03 -9.22e-03 4.81e-03 -1.20e-02 -2.58e-03 4.86e-02  
## 2654 6.70e-05 3.13e-03 5.05e-04 1.27e-03 -6.11e-04 1.49e-03 5.65e-03  
## 2655 7.46e-04 -7.47e-04 -1.29e-03 8.42e-05 7.49e-04 -1.94e-04 -4.53e-03  
## 2656 1.81e-03 -3.81e-03 -1.02e-02 -8.21e-03 -3.91e-03 3.77e-03 3.82e-02  
## 2657 -1.07e-03 -7.24e-04 1.04e-03 -1.70e-03 -1.09e-03 1.13e-03 -4.48e-03  
## 2658 1.73e-02 6.17e-05 1.13e-02 1.35e-03 1.59e-02 -3.29e-03 -7.00e-02  
## 2659 -2.13e-03 -4.90e-04 -3.48e-03 -7.04e-04 -3.64e-03 6.75e-03 2.57e-02  
## 2660 1.05e-02 -2.05e-04 -3.36e-03 -6.00e-04 2.48e-03 4.46e-03 2.40e-02  
## 2661 -1.37e-02 7.48e-03 -7.19e-03 6.15e-03 1.04e-02 -8.12e-03 5.42e-02  
## 2662 1.41e-03 -1.30e-03 1.88e-03 1.24e-04 1.46e-03 -3.29e-04 -9.33e-03  
## 2663 -3.34e-04 -1.28e-03 -2.51e-03 4.41e-05 1.19e-04 -3.32e-03 -7.31e-03  
## 2664 1.12e-02 2.54e-02 -1.69e-02 -1.36e-02 4.39e-02 -4.13e-02 -1.07e-01  
## 2665 2.64e-02 4.18e-03 8.15e-03 -6.24e-03 -1.33e-02 2.04e-02 -6.94e-02  
## 2666 1.46e-02 -7.84e-04 -5.02e-03 1.24e-02 6.18e-03 4.27e-03 3.39e-02  
## 2667 -3.18e-03 -1.43e-02 1.32e-02 5.07e-03 -1.36e-03 7.48e-03 3.37e-02  
## 2668 -4.16e-04 8.16e-06 1.17e-03 -3.40e-03 -1.45e-03 5.77e-04 5.79e-03  
## 2669 1.38e-02 6.82e-03 5.05e-03 2.32e-02 -6.13e-03 1.06e-02 -6.27e-02  
## 2670 -3.33e-03 -5.25e-03 6.38e-03 4.84e-03 -1.55e-02 1.05e-02 3.33e-02  
## 2671 -3.15e-05 -8.08e-04 -3.26e-04 -1.01e-03 -3.58e-04 4.83e-04 -2.47e-03  
## 2672 -4.40e-04 -5.67e-05 1.58e-03 2.77e-03 -1.25e-03 9.61e-05 7.30e-03  
## 2673 -1.35e-02 -7.96e-03 8.84e-03 1.25e-02 -1.98e-02 -1.15e-03 -4.23e-02  
## 2674 -4.56e-04 -1.45e-04 1.30e-03 2.33e-03 -1.09e-03 -8.55e-05 6.25e-03  
## 2675 -1.10e-02 -7.24e-03 7.08e-03 -1.88e-03 -1.40e-02 3.66e-03 -4.36e-02  
## 2676 5.11e-03 -4.80e-04 -7.62e-03 7.02e-03 4.49e-03 -2.25e-03 -2.73e-02  
## 2677 5.50e-04 5.62e-04 3.37e-04 -1.09e-04 6.02e-04 -3.19e-04 2.17e-03  
## 2678 -5.00e-03 -4.11e-03 -2.41e-02 -1.82e-02 1.08e-02 -1.20e-02 -7.53e-02  
## 2679 -1.16e-02 -3.93e-03 1.04e-02 -1.67e-02 -1.85e-02 1.03e-02 -5.65e-02  
## 2680 -1.14e-03 -1.74e-03 -1.38e-03 -5.22e-03 -2.52e-03 9.02e-03 2.21e-02  
## 2681 -4.45e-05 -2.26e-05 -2.57e-05 1.67e-05 -8.79e-06 -3.00e-05 -8.88e-05  
## 2682 -1.49e-02 -1.08e-03 6.63e-03 -4.92e-03 -9.08e-03 5.96e-03 -5.38e-02  
## 2683 -1.27e-02 -1.49e-02 1.93e-02 4.97e-03 1.77e-02 -6.79e-03 5.69e-02  
## 2684 -1.01e-02 -7.13e-03 7.27e-03 -2.49e-03 -1.38e-02 1.09e-02 -5.37e-02  
## 2685 4.24e-04 2.64e-03 -1.19e-03 2.51e-04 -1.42e-03 4.13e-03 9.95e-03  
## 2686 -1.82e-02 -3.69e-03 4.76e-03 9.85e-03 -1.23e-02 4.79e-03 -5.48e-02  
## 2687 -2.31e-02 1.76e-02 -1.27e-02 1.07e-03 -4.66e-03 4.26e-04 4.90e-02  
## 2688 1.53e-03 -5.28e-03 -9.26e-03 2.30e-03 -4.70e-03 1.44e-03 3.12e-02  
## 2689 3.66e-04 -1.04e-04 -2.41e-03 4.04e-03 -3.09e-03 8.17e-03 -1.69e-02  
## 2690 -1.84e-03 -5.45e-03 2.91e-03 -5.60e-03 -7.03e-03 5.35e-03 1.63e-02  
## 2691 -2.17e-03 -7.22e-04 -1.27e-03 -1.76e-04 -1.60e-03 -4.79e-04 5.40e-03  
## 2692 -2.67e-03 -1.05e-03 -1.66e-03 -4.24e-03 -3.73e-03 2.99e-03 -1.15e-02  
## 2693 4.23e-03 -1.36e-03 -6.42e-03 4.94e-03 7.78e-03 -2.80e-03 -2.08e-02  
## 2694 -2.46e-03 -4.80e-03 4.13e-03 3.27e-03 -1.04e-02 8.66e-03 2.08e-02  
## 2695 2.67e-02 -1.21e-02 -2.90e-03 9.47e-03 5.63e-03 -9.86e-03 7.53e-02  
## 2696 5.63e-03 -9.15e-03 1.21e-02 3.63e-03 4.58e-03 1.54e-03 4.10e-02  
## 2697 4.77e-04 2.65e-03 -1.18e-03 4.34e-04 -4.44e-04 2.94e-03 -6.60e-03  
## 2698 2.84e-03 2.65e-03 1.28e-02 -1.94e-03 -5.77e-03 1.24e-02 3.76e-02  
## 2699 -4.12e-03 -8.46e-03 1.59e-02 -1.68e-02 1.73e-02 -1.25e-02 -6.65e-02  
## 2700 -4.30e-03 -9.94e-04 3.22e-03 -6.22e-04 -2.37e-04 6.20e-04 1.30e-02  
## 2701 5.18e-05 -2.19e-04 -1.58e-03 2.00e-03 -6.88e-04 3.94e-03 -9.03e-03  
## 2702 -1.81e-02 -3.77e-03 -2.14e-02 -1.28e-03 -2.90e-02 9.53e-03 -6.53e-02  
## 2703 9.04e-03 4.97e-03 5.90e-03 -2.16e-03 -1.49e-02 2.63e-02 -5.52e-02  
## 2704 1.07e-02 -1.40e-04 2.78e-03 -3.35e-03 -5.00e-03 1.44e-02 -4.67e-02  
## 2705 -1.54e-02 -1.63e-02 -6.27e-03 7.52e-03 -1.62e-02 -9.89e-03 6.74e-02  
## 2706 -4.61e-04 2.90e-04 1.69e-03 -2.35e-03 -2.10e-03 1.03e-03 8.49e-03  
## 2707 9.28e-03 -2.01e-02 8.64e-03 2.70e-02 -1.96e-02 -4.95e-03 -7.50e-02  
## 2708 5.16e-03 -1.49e-03 1.05e-02 9.01e-03 1.03e-04 9.92e-03 4.65e-02  
## 2709 -3.24e-03 -4.42e-03 -1.18e-02 4.57e-03 -1.66e-02 1.18e-02 2.93e-02  
## 2710 -3.28e-03 1.22e-02 -4.92e-03 -7.39e-03 6.43e-03 5.37e-03 3.30e-02  
## 2711 -2.89e-03 -1.14e-02 -6.40e-03 -8.54e-03 -8.74e-03 -3.76e-03 2.35e-02  
## 2712 3.36e-03 -4.12e-03 1.14e-02 1.13e-02 -1.70e-03 5.50e-03 3.86e-02  
## 2713 3.52e-03 -9.52e-04 -6.85e-03 5.24e-03 6.42e-03 -4.64e-03 -2.09e-02  
## 2714 -1.60e-03 -1.27e-03 1.87e-03 1.42e-03 -1.40e-03 2.17e-03 -7.59e-03  
## 2715 -8.97e-04 9.04e-04 -8.41e-04 -1.12e-04 -6.89e-04 1.62e-04 4.48e-03  
## 2716 -6.31e-03 3.93e-03 -2.73e-02 -2.66e-03 9.92e-03 -1.01e-02 -7.75e-02  
## 2717 1.80e-02 -5.04e-03 5.08e-03 -1.93e-03 -1.04e-02 4.11e-03 -4.57e-02  
## 2718 -1.91e-06 -3.62e-04 -9.63e-05 -2.91e-04 -2.10e-05 9.64e-06 -8.31e-04  
## 2719 -1.82e-03 -6.45e-03 3.24e-03 -4.45e-03 -5.36e-03 1.65e-03 1.35e-02  
## 2720 5.86e-04 3.33e-03 -1.50e-03 2.64e-03 -4.70e-04 3.51e-03 -8.56e-03  
## 2721 8.14e-03 4.14e-03 1.50e-02 -2.56e-03 -3.86e-03 2.39e-02 5.54e-02  
## 2722 2.21e-05 7.44e-04 1.71e-04 4.50e-04 2.98e-05 1.30e-04 1.63e-03  
## 2723 9.18e-03 -2.58e-03 2.21e-03 1.61e-02 -6.36e-03 1.11e-02 -3.63e-02  
## 2724 -8.96e-03 5.24e-03 1.13e-02 2.96e-03 2.17e-04 -7.86e-03 4.53e-02  
## 2725 1.44e-02 -5.28e-03 4.12e-03 -1.53e-03 -1.09e-02 8.70e-03 -3.46e-02  
## 2726 -3.94e-03 2.86e-03 -2.92e-03 -1.26e-02 2.24e-03 4.33e-03 4.03e-02  
## 2727 -3.21e-03 -1.28e-02 1.04e-02 -1.03e-03 -3.64e-03 4.85e-03 2.71e-02  
## 2728 -1.98e-03 -5.29e-03 3.41e-03 -6.78e-03 -8.17e-03 7.36e-03 1.99e-02  
## 2729 1.37e-02 4.57e-03 -1.28e-02 1.50e-02 -1.39e-02 6.73e-03 6.93e-02  
## 2730 -2.22e-03 -6.20e-03 3.87e-03 3.85e-03 -7.71e-03 4.63e-03 1.75e-02  
## 2731 1.34e-02 -1.16e-02 -4.63e-03 -1.60e-02 2.55e-03 9.83e-03 5.59e-02  
## 2732 -1.42e-02 -1.50e-02 2.11e-02 9.34e-03 1.11e-03 6.84e-03 5.33e-02  
## 2733 1.84e-04 -2.77e-03 -2.79e-03 -7.90e-04 -2.53e-03 1.08e-02 2.72e-02  
## 2734 -1.53e-03 2.49e-03 1.77e-03 -2.29e-03 -2.84e-04 1.17e-04 8.22e-03  
## 2735 -7.58e-04 -1.99e-03 1.18e-02 -7.18e-03 1.55e-03 1.10e-02 3.11e-02  
## 2736 -6.20e-03 -5.36e-03 -2.41e-02 -1.80e-02 8.42e-03 -2.21e-02 -7.37e-02  
## 2737 8.82e-03 -4.24e-03 2.36e-03 -1.01e-03 -6.83e-03 8.68e-03 -3.52e-02  
## 2738 -5.05e-03 -3.41e-03 -5.13e-03 5.40e-03 3.40e-04 2.95e-03 -2.41e-02  
## 2739 9.21e-05 5.76e-04 -4.29e-04 5.37e-04 2.50e-04 6.17e-04 2.40e-03  
## 2740 7.41e-04 1.79e-02 -6.24e-03 -2.27e-03 1.03e-02 1.76e-03 4.02e-02  
## 2741 -1.10e-02 -5.99e-03 2.13e-03 -1.20e-03 -6.14e-03 7.30e-03 -3.34e-02  
## 2742 2.81e-05 4.61e-04 1.29e-04 3.57e-04 4.51e-05 3.38e-05 1.01e-03  
## 2743 -3.15e-03 -5.81e-03 -1.06e-02 4.81e-03 -1.44e-02 8.61e-03 2.55e-02  
## 2744 1.99e-02 -2.55e-03 1.03e-02 1.68e-03 1.46e-02 -1.05e-02 -6.83e-02  
## 2745 -8.87e-03 2.56e-03 1.21e-02 -1.27e-02 -7.36e-03 1.19e-03 3.97e-02  
## 2746 -1.23e-03 7.31e-03 -1.01e-02 3.91e-03 -1.01e-02 9.47e-03 2.33e-02  
## 2747 7.92e-03 -4.10e-03 -1.20e-02 1.42e-02 -5.11e-04 1.18e-02 5.61e-02  
## 2748 -1.69e-02 4.98e-02 -3.10e-02 4.59e-02 -1.32e-02 4.06e-03 -1.48e-01  
## 2749 8.30e-03 -2.58e-03 -1.62e-02 -9.59e-03 -1.30e-02 1.43e-02 -3.77e-02  
## 2750 7.53e-03 -5.95e-03 8.87e-03 8.40e-03 1.60e-03 8.06e-04 4.69e-02  
## 2751 -9.95e-04 -5.37e-03 1.72e-03 8.49e-04 -1.25e-03 -2.42e-03 8.77e-03  
## 2752 9.31e-03 1.92e-02 -1.85e-02 -1.47e-02 4.31e-02 -3.79e-02 -8.91e-02  
## 2753 2.80e-03 -1.10e-03 2.28e-03 -1.66e-03 1.82e-03 1.85e-03 8.31e-03  
## 2754 -2.35e-03 -5.33e-03 4.11e-03 3.53e-03 -9.47e-03 7.29e-03 1.97e-02  
## 2755 -2.42e-03 -4.36e-03 3.97e-03 -1.32e-02 -1.09e-02 9.08e-03 2.26e-02  
## 2756 -8.32e-04 9.97e-04 -5.74e-03 -3.48e-03 -4.33e-03 1.51e-03 1.20e-02  
## 2757 3.03e-02 -4.11e-03 1.11e-02 -5.04e-04 1.61e-02 -1.67e-02 -7.89e-02  
## 2758 -7.72e-04 2.54e-02 1.57e-02 -1.67e-02 2.00e-02 -6.33e-03 5.40e-02  
## 2759 3.36e-03 -6.12e-03 4.32e-03 2.46e-03 4.35e-03 1.15e-03 1.53e-02  
## 2760 8.12e-04 -5.69e-03 2.96e-03 1.34e-03 -1.90e-03 -3.41e-03 1.39e-02  
## 2761 1.78e-02 5.12e-03 -1.14e-02 2.92e-03 2.55e-02 2.38e-03 5.11e-02  
## 2762 -4.51e-04 -2.52e-03 -2.06e-03 3.67e-03 -2.05e-03 4.11e-03 1.44e-02  
## 2763 1.32e-02 -1.59e-02 -5.46e-03 -1.16e-02 5.79e-03 3.16e-03 4.91e-02  
## 2764 -6.60e-04 2.49e-03 2.21e-03 3.06e-03 -3.89e-03 3.97e-03 1.20e-02  
## 2765 1.28e-02 3.91e-02 -2.27e-02 6.13e-02 4.66e-02 -2.55e-02 -1.08e-01  
## 2766 1.17e-02 3.90e-03 4.37e-03 -3.86e-03 -7.47e-03 1.01e-02 -4.56e-02  
## 2767 -2.22e-02 -9.02e-03 -1.19e-02 1.25e-02 -8.92e-03 -5.45e-03 5.12e-02  
## 2768 -6.42e-03 -2.41e-03 -5.04e-03 -1.00e-04 8.72e-04 5.54e-04 -2.01e-02  
## 2769 8.04e-03 -7.83e-03 1.17e-02 2.43e-03 6.42e-04 3.48e-03 4.78e-02  
## 2770 3.49e-03 -3.74e-03 1.04e-02 8.76e-03 -1.15e-03 3.33e-03 3.51e-02  
## 2771 -1.58e-02 3.98e-03 2.94e-02 -2.53e-02 2.01e-02 6.40e-03 -1.44e-01  
## 2772 -1.29e-02 -4.87e-03 7.32e-03 1.07e-02 -1.35e-02 4.50e-03 -6.41e-02  
## 2773 -2.23e-03 -5.86e-03 3.79e-03 -1.57e-03 -8.11e-03 5.15e-03 1.65e-02  
## 2774 1.79e-02 3.32e-02 -1.22e-02 1.95e-02 3.03e-02 -5.37e-03 6.53e-02  
## 2775 -1.67e-02 -3.80e-03 4.35e-03 -2.07e-03 -1.12e-02 7.76e-03 -3.89e-02  
## 2776 -3.55e-02 -3.33e-03 -3.03e-02 -4.04e-02 2.36e-03 3.60e-02 -1.37e-01  
## 2777 -2.88e-02 -1.85e-03 -1.03e-02 3.10e-04 -1.37e-02 2.96e-04 8.06e-02  
## 2778 -3.21e-03 5.10e-03 -3.98e-03 -4.78e-03 -3.09e-03 -1.21e-03 1.65e-02  
## 2779 -1.80e-02 -1.29e-02 -5.95e-03 8.27e-03 2.55e-03 -1.45e-03 5.24e-02  
## 2780 1.05e-02 9.31e-03 6.66e-03 2.46e-02 -1.50e-02 2.56e-02 -7.30e-02  
## 2781 -2.32e-03 2.96e-02 1.89e-02 6.44e-03 1.87e-02 -1.52e-02 6.04e-02  
## 2782 1.30e-03 2.56e-03 3.09e-03 4.39e-03 1.73e-03 -6.03e-04 1.55e-02  
## 2783 -9.26e-06 6.11e-06 -1.29e-03 -4.02e-03 -1.65e-03 4.43e-03 -9.23e-03  
## 2784 3.73e-03 -6.12e-04 -2.12e-03 -2.33e-05 2.46e-03 2.74e-03 1.41e-02  
## 2785 3.22e-02 -8.10e-03 -7.42e-03 -9.89e-03 9.58e-03 -9.93e-03 7.03e-02  
## 2786 6.92e-03 -4.86e-02 1.73e-02 -2.09e-02 -1.57e-02 -1.06e-02 -1.16e-01  
## 2787 -1.05e-03 1.59e-03 -1.26e-03 -1.39e-03 -9.91e-04 4.21e-04 5.71e-03  
## 2788 1.45e-03 -2.64e-03 1.08e-02 9.50e-04 -3.76e-03 2.37e-03 3.25e-02  
## 2789 1.51e-02 7.25e-03 -1.41e-02 2.64e-03 2.53e-02 -1.58e-02 7.59e-02  
## 2790 7.49e-04 -5.41e-03 6.31e-03 1.85e-03 -7.33e-04 -2.18e-03 2.16e-02  
## 2791 -9.84e-03 -7.05e-03 4.93e-03 -2.54e-03 -9.26e-03 2.23e-03 -3.92e-02  
## 2792 1.72e-02 -1.50e-02 -4.11e-03 -1.16e-02 6.62e-05 8.05e-03 4.78e-02  
## 2793 6.38e-03 -1.42e-03 2.69e-03 -1.65e-03 -7.55e-03 1.57e-02 -3.28e-02  
## 2794 8.38e-03 1.18e-03 5.09e-03 -2.39e-03 -1.11e-02 1.41e-02 -4.35e-02  
## 2795 5.04e-04 2.06e-03 -1.07e-03 2.23e-03 -9.42e-05 2.13e-03 -6.76e-03  
## 2796 -1.52e-03 -6.77e-03 2.79e-03 3.69e-03 -4.39e-03 1.83e-03 1.41e-02  
## 2797 -1.41e-03 -1.95e-03 -2.14e-03 -6.02e-04 -6.52e-04 9.15e-03 2.63e-02  
## 2798 7.92e-03 1.63e-02 3.23e-03 -9.03e-03 1.84e-03 1.11e-02 -6.56e-02  
## 2799 -4.23e-05 1.05e-03 -1.23e-03 -1.18e-03 -2.30e-04 -4.13e-04 3.01e-03  
## 2800 -1.96e-02 -4.24e-02 -2.50e-02 4.66e-02 -1.46e-03 -4.27e-02 -1.26e-01  
## 2801 -3.75e-03 -4.77e-03 -4.57e-03 5.11e-03 -3.36e-03 2.58e-03 -2.20e-02  
## 2802 -2.30e-03 3.62e-03 -2.42e-03 2.30e-03 -2.88e-03 -3.22e-04 1.12e-02  
## 2803 -6.50e-04 2.25e-03 1.62e-03 2.18e-03 -3.41e-03 4.44e-03 1.25e-02  
## 2804 -1.96e-02 -4.28e-03 3.12e-02 1.77e-03 3.88e-02 -3.57e-02 9.97e-02  
## 2805 6.96e-03 -9.84e-03 1.38e-02 4.55e-03 6.13e-04 -5.52e-03 5.19e-02  
## 2806 -2.93e-04 -3.86e-03 -2.40e-03 -7.35e-03 -4.88e-03 1.15e-02 3.53e-02  
## 2807 -1.96e-05 -6.57e-04 -2.43e-04 -7.42e-04 -1.82e-04 2.42e-04 -1.85e-03  
## 2808 7.27e-03 7.87e-03 9.24e-03 -2.47e-02 6.99e-03 -3.49e-02 -1.14e-01  
## 2809 7.12e-05 -3.67e-04 -7.53e-04 -2.15e-03 -6.22e-04 2.38e-03 -5.30e-03  
## 2810 -3.71e-03 -1.45e-03 -2.50e-03 2.44e-03 -2.54e-03 2.31e-03 -1.22e-02  
## 2811 -2.45e-02 3.48e-03 8.78e-03 -1.57e-02 -1.98e-02 2.27e-02 -6.60e-02  
## 2812 2.29e-04 3.36e-03 -1.58e-03 2.45e-03 -1.08e-03 5.14e-03 1.09e-02  
## 2813 -1.60e-05 -4.72e-04 -2.06e-04 2.10e-04 -3.46e-05 1.42e-04 -1.28e-03  
## 2814 1.76e-02 2.33e-02 -3.26e-02 1.22e-02 -2.38e-02 1.09e-02 -9.30e-02  
## 2815 4.15e-04 -1.17e-03 9.52e-03 -2.37e-04 -2.87e-03 -1.11e-03 3.44e-02  
## 2816 -2.61e-04 -7.75e-04 6.37e-04 -1.11e-03 -4.77e-04 -9.05e-04 3.10e-03  
## 2817 -8.34e-03 -8.80e-03 4.75e-03 -1.30e-03 -8.20e-03 3.16e-03 -3.91e-02  
## 2818 6.17e-02 7.46e-02 -3.79e-02 1.03e-02 3.37e-02 2.73e-02 -1.51e-01  
## 2819 -1.44e-05 1.68e-03 -1.77e-03 -1.74e-03 -4.62e-04 -2.78e-04 4.51e-03  
## 2820 5.76e-05 -8.96e-04 -1.17e-03 -3.82e-03 -1.76e-03 4.05e-03 -9.27e-03  
## 2821 -3.95e-03 -9.12e-03 -1.12e-02 -7.97e-04 -1.73e-02 4.03e-03 3.22e-02  
## 2822 4.49e-03 1.33e-02 8.62e-03 1.10e-03 1.92e-04 8.27e-03 3.49e-02  
## 2823 1.92e-03 5.79e-03 -1.25e-02 1.15e-02 -9.36e-03 5.03e-03 4.84e-02  
## 2824 2.98e-04 1.05e-02 1.32e-03 2.11e-03 -2.69e-03 6.06e-03 1.58e-02  
## 2825 -1.21e-02 -8.41e-03 7.17e-03 -1.48e-03 -1.45e-02 -1.28e-03 -4.53e-02  
## 2826 -2.62e-03 -3.83e-03 -2.42e-03 -2.50e-03 -2.04e-03 1.44e-03 -1.34e-02  
## 2827 -1.65e-02 -2.16e-03 2.25e-03 -4.20e-03 -7.34e-03 1.76e-02 -4.89e-02  
## 2828 5.31e-03 5.06e-04 6.24e-03 -1.75e-03 -2.51e-03 -1.00e-03 2.11e-02  
## 2829 -2.38e-03 -3.31e-03 3.30e-03 2.49e-03 -2.83e-04 7.33e-04 -1.27e-02  
## 2830 -1.03e-04 -3.80e-04 3.06e-04 6.86e-04 -1.39e-05 -3.80e-04 1.68e-03  
## 2831 5.66e-05 -8.31e-05 -1.21e-04 7.55e-06 -1.27e-04 -6.48e-05 6.60e-04  
## 2832 -9.05e-03 -1.52e-02 2.33e-02 7.06e-03 9.01e-04 5.19e-03 5.07e-02  
## 2833 9.68e-03 1.95e-02 -1.84e-02 -1.47e-02 4.42e-02 -3.84e-02 -8.99e-02  
## 2834 1.01e-06 5.10e-05 1.95e-05 5.24e-05 1.13e-05 -2.21e-05 1.33e-04  
## 2835 3.61e-05 -1.64e-03 -7.91e-04 2.47e-03 -1.44e-04 5.62e-04 -5.42e-03  
## 2836 8.41e-03 -1.05e-02 1.17e-02 1.21e-02 1.76e-02 -9.59e-03 4.41e-02  
## 2837 8.09e-03 3.91e-03 1.48e-02 -2.71e-03 -2.89e-03 2.26e-02 5.42e-02  
## 2838 -1.80e-02 -9.27e-03 1.09e-02 1.00e-02 -2.36e-03 -3.56e-03 5.49e-02  
## 2839 -4.52e-05 -1.21e-03 -8.53e-04 -2.80e-03 -1.16e-03 1.98e-03 -6.37e-03  
## 2840 9.54e-03 -2.01e-03 2.52e-03 -2.33e-03 -5.13e-03 1.62e-02 -4.23e-02  
## 2841 -2.25e-02 -9.03e-03 -9.59e-03 5.39e-03 2.10e-02 -3.13e-02 8.10e-02  
## 2842 -3.17e-02 2.76e-04 -1.41e-02 1.47e-02 -8.65e-03 -3.20e-03 6.69e-02  
## 2843 1.29e-02 -5.42e-03 2.41e-02 -2.14e-02 1.58e-02 -3.99e-03 6.08e-02  
## 2844 3.59e-03 4.10e-03 -7.25e-03 -3.42e-03 -9.21e-04 9.44e-04 2.36e-02  
## 2845 -2.13e-03 -6.48e-03 4.00e-03 4.15e-03 -7.68e-03 4.62e-03 1.76e-02  
## 2846 -5.90e-03 -2.04e-02 -1.42e-03 9.74e-03 -8.65e-03 1.33e-02 5.72e-02  
## 2847 1.28e-03 -1.05e-03 1.82e-03 -3.45e-03 2.00e-03 -2.17e-04 -7.03e-03  
## 2848 2.65e-03 -2.10e-03 3.54e-03 3.42e-03 3.62e-03 -3.77e-04 -1.39e-02  
## 2849 1.32e-02 2.26e-03 -5.24e-03 -8.54e-03 6.34e-03 7.49e-03 3.58e-02  
## 2850 1.09e-02 8.50e-03 -1.03e-02 -1.60e-02 -8.30e-03 -4.00e-03 5.04e-02  
## 2851 -1.18e-05 -1.22e-03 -4.80e-04 -1.53e-03 -4.00e-04 6.27e-04 -3.78e-03  
## 2852 3.17e-03 7.26e-03 -1.38e-02 -7.51e-04 -1.62e-02 1.15e-02 5.58e-02  
## 2853 1.33e-03 -1.11e-03 -8.75e-04 1.02e-03 -2.32e-04 3.09e-05 -4.02e-03  
## 2854 -2.75e-03 -6.87e-03 -1.05e-02 5.97e-03 -1.38e-02 7.52e-03 2.93e-02  
## 2855 1.36e-03 -1.14e-03 1.40e-03 -1.25e-04 3.29e-03 -7.60e-04 -7.02e-03  
## 2856 -3.45e-03 -1.95e-02 -1.08e-03 -1.30e-03 -1.26e-02 2.00e-02 5.66e-02  
## 2857 1.58e-02 -6.35e-03 5.55e-03 -1.01e-03 -1.67e-02 7.35e-03 -3.87e-02  
## 2858 -1.40e-02 -6.54e-03 9.77e-03 -1.93e-03 -2.07e-02 1.31e-04 -4.97e-02  
## 2859 3.29e-03 3.11e-03 1.31e-02 9.51e-03 -4.36e-03 1.17e-02 4.00e-02  
## 2860 8.14e-03 -4.22e-03 -8.70e-03 -2.22e-02 -1.23e-02 -5.65e-03 5.53e-02  
## 2861 -5.10e-05 1.76e-03 2.27e-03 -1.59e-03 4.83e-04 2.04e-03 6.71e-03  
## 2862 -2.97e-02 3.08e-03 -9.03e-03 4.45e-03 2.22e-02 -1.62e-02 7.33e-02  
## 2863 -4.67e-04 3.50e-04 1.61e-03 -2.37e-03 -1.99e-03 1.17e-03 7.03e-03  
## 2864 2.53e-02 -4.23e-03 -6.47e-03 5.84e-03 1.77e-02 -8.76e-03 6.23e-02  
## 2865 8.96e-03 -2.63e-03 3.39e-03 -1.68e-03 -1.29e-02 1.16e-02 -3.53e-02  
## 2866 2.08e-03 9.77e-03 1.05e-02 5.74e-03 7.25e-03 5.59e-03 2.95e-02  
## 2867 -1.90e-02 -2.08e-03 4.46e-03 -3.48e-03 -1.12e-02 6.14e-03 -4.59e-02  
## 2868 -7.45e-06 1.24e-04 6.12e-05 5.17e-05 -2.47e-05 -6.17e-05 4.05e-04  
## 2869 1.16e-02 4.79e-03 2.88e-03 2.11e-02 -3.72e-03 4.01e-03 -4.81e-02  
## 2870 9.50e-05 -8.34e-04 -1.55e-03 3.69e-04 -1.74e-03 4.59e-03 -1.01e-02  
## 2871 1.94e-02 1.69e-03 5.87e-03 -5.52e-03 -1.09e-02 4.03e-03 -5.16e-02  
## 2872 -1.05e-03 2.21e-03 -6.65e-03 -4.50e-03 -5.87e-03 3.19e-03 1.42e-02  
## 2873 1.46e-02 3.79e-02 4.55e-03 -1.88e-02 8.87e-03 -2.22e-02 -9.77e-02  
## 2874 3.23e-02 -6.70e-03 -7.76e-03 -2.71e-02 1.69e-02 -7.53e-03 7.71e-02  
## 2875 1.07e-02 4.21e-02 2.59e-03 -2.20e-02 3.08e-02 -2.77e-02 -1.02e-01  
## 2876 -2.78e-02 2.94e-03 -9.34e-03 -3.36e-02 1.93e-02 -1.79e-03 7.26e-02  
## 2877 -1.00e-02 1.25e-03 -5.88e-03 2.73e-03 -1.67e-03 -2.21e-03 2.34e-02  
## 2878 -2.46e-02 -3.18e-03 -1.02e-02 1.63e-03 -1.74e-02 -2.67e-04 6.00e-02  
## 2879 1.60e-05 -2.31e-04 -1.00e-03 -3.10e-03 -1.18e-03 3.33e-03 -7.14e-03  
## 2880 2.23e-03 -1.45e-03 2.53e-03 2.59e-03 6.06e-03 -2.81e-03 -1.36e-02  
## 2881 2.91e-04 3.96e-03 -1.65e-03 -1.08e-04 -1.64e-03 4.84e-03 1.36e-02  
## 2882 -1.86e-03 -1.36e-02 -2.55e-03 -6.38e-03 -1.65e-03 4.41e-03 2.78e-02  
## 2883 -5.38e-03 -8.93e-03 1.99e-02 -1.69e-02 1.41e-02 -1.99e-02 -6.62e-02  
## 2884 -1.15e-02 -8.84e-03 7.09e-03 -5.31e-04 -1.67e-02 -4.93e-04 -5.47e-02  
## 2885 3.14e-03 -1.46e-03 2.29e-03 3.70e-03 1.43e-03 -2.44e-03 1.12e-02  
## 2886 -2.61e-02 2.50e-02 -3.81e-02 2.95e-02 -2.88e-02 -1.62e-02 -1.15e-01  
## 2887 1.73e-02 -6.14e-03 6.20e-03 -8.75e-04 -1.55e-02 6.81e-03 -3.98e-02  
## 2888 -2.45e-03 -4.68e-03 4.34e-03 3.33e-03 -1.07e-02 9.14e-03 2.17e-02  
## 2889 5.64e-05 1.92e-02 -2.97e-02 -6.55e-03 1.57e-02 1.37e-02 -1.06e-01  
## 2890 -2.55e-02 1.39e-02 3.99e-02 7.41e-03 4.84e-03 1.24e-02 -1.35e-01  
## 2891 -6.78e-04 -6.89e-04 -3.94e-03 -4.40e-03 -2.64e-03 -7.16e-04 1.03e-02  
## 2892 -1.12e-03 4.01e-03 -8.19e-03 -8.56e-04 -7.28e-03 5.11e-03 1.70e-02  
## 2893 -1.49e-05 1.09e-03 5.60e-04 -1.30e-03 -1.92e-04 -4.48e-04 3.27e-03  
## 2894 -8.51e-03 2.78e-02 -1.20e-02 1.18e-02 1.51e-03 -1.28e-02 6.13e-02  
## 2895 -6.93e-03 -1.18e-03 -4.07e-03 3.63e-03 -2.92e-03 4.33e-03 -1.98e-02  
## 2896 -1.14e-02 -8.36e-03 7.63e-03 -9.69e-04 -1.51e-02 -1.05e-03 -5.24e-02  
## 2897 5.00e-03 3.31e-03 -1.66e-03 2.32e-03 1.62e-03 3.31e-03 1.10e-02  
## 2898 1.46e-02 8.01e-03 -1.29e-02 2.61e-03 2.13e-02 -7.37e-03 7.78e-02  
## 2899 5.48e-03 -6.10e-03 1.00e-02 8.82e-03 2.48e-03 2.56e-03 4.43e-02  
## 2900 -2.10e-02 5.07e-03 -2.83e-02 -2.37e-02 -3.64e-02 -2.66e-03 -6.87e-02  
## 2901 1.69e-02 9.52e-03 1.36e-02 4.40e-03 2.25e-02 -3.75e-03 4.99e-02  
## 2902 3.55e-03 -4.57e-03 -1.09e-02 1.04e-02 -5.22e-03 5.03e-03 4.24e-02  
## 2903 1.11e-02 3.02e-03 5.21e-03 -1.75e-02 -1.18e-02 6.70e-03 -5.29e-02  
## 2904 1.34e-02 5.13e-03 5.60e-03 -4.96e-03 -8.25e-03 1.69e-02 -5.85e-02  
## 2905 9.22e-04 1.03e-04 1.72e-03 9.03e-04 5.35e-04 -3.29e-04 6.22e-03  
## 2906 -2.54e-05 4.10e-03 -4.15e-03 -1.59e-03 -1.90e-03 -4.79e-05 1.02e-02  
## 2907 -1.74e-02 -3.26e-03 -2.31e-02 3.06e-02 -2.47e-02 5.79e-03 -6.81e-02  
## 2908 -2.40e-02 -9.06e-03 -5.85e-03 1.03e-02 -4.27e-04 -1.22e-02 7.59e-02  
## 2909 -2.21e-04 3.07e-04 3.71e-04 -8.56e-05 1.09e-04 -3.25e-04 1.56e-03  
## 2910 -1.33e-02 8.43e-03 -7.41e-03 -1.56e-02 -8.37e-03 2.36e-03 4.41e-02  
## 2911 1.32e-03 -3.80e-04 2.34e-03 1.98e-03 2.98e-04 1.47e-03 -1.02e-02  
## 2912 -1.10e-02 -1.31e-02 -5.11e-03 -1.64e-03 -2.58e-04 -5.66e-03 3.22e-02  
## 2913 1.85e-04 -4.03e-04 3.59e-03 2.42e-03 -1.14e-03 4.43e-03 -9.83e-03  
## 2914 -2.99e-02 1.15e-03 -1.25e-02 1.71e-02 -1.94e-02 6.47e-04 9.15e-02  
## 2915 -5.08e-03 1.18e-02 8.22e-03 -1.84e-03 3.64e-03 -2.43e-03 3.31e-02  
## 2916 3.80e-03 -1.46e-03 -6.21e-03 -1.15e-02 3.28e-03 -1.08e-03 -2.53e-02  
## 2917 8.67e-03 -1.90e-03 2.50e-03 -2.01e-03 -7.93e-03 1.13e-02 -3.21e-02  
## 2918 1.60e-02 1.37e-02 9.14e-03 -2.47e-02 -1.13e-02 9.86e-03 -7.83e-02  
## 2919 1.43e-02 -1.37e-02 1.11e-02 1.22e-02 7.85e-03 2.62e-04 3.95e-02  
## 2920 -1.37e-02 -5.45e-03 9.88e-03 -2.60e-03 -2.21e-02 7.17e-03 -5.40e-02  
## 2921 7.11e-04 -2.49e-03 1.18e-02 1.27e-02 1.02e-02 3.83e-03 3.53e-02  
## 2922 2.36e-04 1.13e-03 -7.19e-04 1.09e-03 -3.15e-04 1.95e-03 4.36e-03  
## 2923 1.86e-02 1.37e-02 -1.34e-02 1.44e-04 2.96e-02 -5.45e-04 5.69e-02  
## 2924 2.33e-03 -2.98e-03 -4.19e-03 3.57e-03 -4.50e-03 -4.91e-03 -1.74e-02  
## 2925 1.35e-03 -3.29e-04 1.70e-03 2.72e-03 2.28e-03 -1.68e-03 9.57e-03  
## 2926 4.30e-05 3.14e-03 9.84e-04 2.42e-03 -3.18e-04 -3.15e-04 7.59e-03  
## 2927 -1.30e-02 -1.43e-02 -2.30e-03 -2.49e-02 -5.74e-03 -9.44e-03 8.88e-02  
## 2928 1.69e-03 1.78e-02 -3.60e-03 8.08e-03 1.16e-03 7.87e-03 3.99e-02  
## 2929 1.38e-04 -2.65e-04 1.74e-03 1.20e-03 7.99e-05 2.01e-03 -4.94e-03  
## 2930 -1.71e-03 -5.63e-03 2.80e-03 -8.37e-03 -6.20e-03 4.04e-03 1.58e-02  
## 2931 3.23e-03 -1.98e-03 4.51e-03 4.13e-03 4.98e-03 -1.34e-03 -1.79e-02  
## 2932 -1.04e-02 -1.60e-02 -4.64e-03 2.40e-02 -2.84e-03 -7.01e-03 5.89e-02  
## 2933 -5.70e-03 -7.97e-04 -4.01e-03 6.43e-03 1.36e-03 6.28e-03 2.90e-02  
## 2934 -6.33e-03 3.96e-04 1.18e-02 -7.99e-03 7.27e-03 2.93e-03 3.31e-02  
## 2935 -1.79e-02 3.57e-03 1.02e-02 -2.09e-02 -1.84e-02 2.22e-02 -8.60e-02  
## 2936 2.53e-02 3.62e-02 9.74e-03 -1.56e-02 2.43e-02 1.96e-02 -1.18e-01  
## 2937 3.51e-03 2.07e-03 -1.16e-03 8.74e-05 1.85e-04 2.08e-03 6.84e-03  
## 2938 9.75e-06 -8.89e-04 -4.19e-04 -3.42e-04 -2.73e-04 6.55e-04 -2.61e-03  
## 2939 -1.68e-04 5.13e-03 -5.11e-03 4.48e-03 -1.69e-03 -1.85e-03 1.32e-02  
## 2940 1.04e-02 -7.67e-03 -8.48e-03 -1.91e-02 -6.04e-03 -4.38e-03 5.61e-02  
## 2941 1.33e-02 -9.82e-05 2.00e-02 1.42e-03 2.97e-02 -7.58e-03 5.71e-02  
## 2942 1.28e-02 -1.58e-02 -5.29e-03 7.76e-03 9.62e-03 4.56e-03 4.58e-02  
## 2943 1.87e-02 -1.40e-02 -4.47e-03 -3.01e-03 4.38e-03 3.20e-03 4.40e-02  
## 2944 8.01e-03 1.33e-02 2.74e-03 -9.82e-03 8.02e-03 -4.66e-03 -5.85e-02  
## 2945 -4.95e-04 4.48e-04 7.49e-04 6.53e-05 5.31e-05 3.23e-04 -2.68e-03  
## 2946 -3.23e-03 -5.21e-03 -1.08e-02 -2.70e-03 -1.55e-02 1.00e-02 2.64e-02  
## 2947 -1.39e-02 4.69e-03 -8.43e-03 9.28e-03 -1.72e-03 -3.36e-03 3.38e-02  
## 2948 -2.09e-03 -8.43e-03 -6.54e-03 -4.13e-03 -6.89e-03 9.09e-04 1.76e-02  
## 2949 1.06e-02 8.37e-03 3.67e-03 2.11e-02 -4.15e-03 1.67e-02 -6.10e-02  
## 2950 -1.33e-02 -4.96e-03 -2.13e-02 -1.53e-02 -2.36e-02 5.37e-03 -4.89e-02  
## 2951 9.20e-03 -2.17e-03 2.74e-03 -1.69e-03 -7.08e-03 1.16e-02 -3.23e-02  
## 2952 -5.95e-03 -1.61e-02 -3.70e-03 7.38e-03 -6.90e-04 2.78e-03 4.61e-02  
## 2953 1.71e-02 1.34e-02 -1.13e-02 2.42e-02 2.74e-02 -1.99e-02 8.08e-02  
## 2954 -2.43e-03 -4.61e-03 4.21e-03 -8.20e-03 -1.12e-02 9.45e-03 2.13e-02  
## 2955 1.71e-02 -1.48e-02 1.76e-02 4.83e-03 1.34e-02 -1.29e-02 5.62e-02  
## 2956 1.33e-02 6.43e-03 5.45e-03 -5.30e-03 -9.58e-03 1.60e-02 -5.64e-02  
## 2957 1.93e-03 -4.27e-03 -8.96e-03 9.96e-03 -5.59e-03 -1.86e-03 3.69e-02  
## 2958 -1.60e-02 3.61e-03 2.15e-02 -1.93e-02 4.10e-03 -2.63e-02 -1.06e-01  
## 2959 -9.95e-04 -9.02e-04 -5.99e-03 -2.74e-03 -4.98e-03 -4.90e-04 1.50e-02  
## 2960 2.62e-03 4.12e-03 -7.59e-03 2.71e-03 -2.69e-03 -2.07e-03 2.80e-02  
## 2961 -3.25e-02 3.19e-02 -3.77e-02 7.03e-03 -1.96e-02 -1.56e-02 -1.04e-01  
## 2962 -2.32e-02 3.96e-04 -8.92e-03 1.97e-03 -1.99e-02 9.56e-03 8.93e-02  
## 2963 3.80e-06 2.24e-03 2.91e-03 1.80e-03 1.13e-03 9.35e-04 8.19e-03  
## 2964 -2.70e-02 1.29e-03 2.98e-02 2.05e-03 3.24e-02 -3.30e-02 9.05e-02  
## 2965 1.09e-04 3.58e-04 6.39e-04 4.29e-04 2.24e-04 8.06e-04 2.11e-03  
## 2966 -1.13e-02 -9.38e-03 6.88e-03 -1.28e-02 -1.54e-02 6.61e-04 -4.41e-02  
## 2967 2.15e-03 -1.39e-03 -3.01e-03 1.86e-04 2.03e-03 5.02e-04 -9.61e-03  
## 2968 8.23e-04 -2.96e-04 1.51e-03 -1.74e-04 -3.17e-04 1.58e-03 -6.48e-03  
## 2969 8.91e-03 4.86e-02 8.37e-03 -2.05e-02 5.69e-03 -2.60e-02 -1.17e-01  
## 2970 3.02e-02 1.05e-02 9.32e-03 9.53e-03 -9.42e-03 1.45e-02 -7.83e-02  
## 2971 -2.44e-02 -4.93e-03 1.45e-02 1.09e-02 -3.00e-03 -1.80e-03 5.05e-02  
## 2972 -3.65e-03 -9.78e-03 -9.09e-03 -6.95e-03 -1.36e-02 2.77e-03 2.97e-02  
## 2973 -3.35e-03 -4.45e-03 -1.16e-02 4.39e-03 -1.67e-02 1.17e-02 2.88e-02  
## 2974 1.57e-02 -9.73e-03 -8.29e-03 5.20e-03 1.67e-02 -1.14e-02 5.59e-02  
## 2975 2.31e-03 -9.74e-04 -2.88e-03 2.48e-03 -1.09e-03 -1.10e-03 1.51e-02  
## 2976 7.11e-05 -2.69e-04 -1.39e-03 3.60e-05 -8.47e-04 3.73e-03 -8.15e-03  
## 2977 1.36e-04 -8.46e-04 -2.06e-03 3.76e-03 -2.28e-03 5.68e-03 -1.35e-02  
## 2978 -2.14e-04 -8.60e-04 -1.31e-03 -3.60e-04 -2.53e-04 -1.01e-03 3.20e-03  
## 2979 4.15e-03 -8.75e-04 -6.43e-03 -5.08e-05 6.39e-03 -2.99e-03 -2.04e-02  
## 2980 -8.36e-04 6.41e-04 3.40e-03 5.48e-03 -4.26e-03 3.69e-05 1.79e-02  
## 2981 -2.47e-03 1.99e-02 -7.51e-03 1.63e-02 9.44e-03 -1.11e-02 4.57e-02  
## 2982 1.04e-02 1.41e-02 -5.70e-03 -8.50e-04 1.33e-02 6.44e-03 3.00e-02  
## 2983 7.91e-07 1.96e-05 5.79e-06 1.68e-05 2.38e-06 -8.35e-07 4.58e-05  
## 2984 1.32e-04 3.84e-03 -1.87e-03 2.82e-03 -7.09e-04 4.77e-03 1.21e-02  
## 2985 -3.06e-03 -5.24e-03 -1.08e-02 3.74e-03 -1.41e-02 1.08e-02 2.90e-02  
## 2986 3.31e-02 -1.26e-03 1.52e-02 -1.70e-02 1.07e-02 -1.59e-02 -8.05e-02  
## 2987 2.47e-02 -1.65e-02 2.14e-02 7.02e-03 1.01e-02 -2.24e-03 6.43e-02  
## 2988 5.20e-03 -4.80e-03 1.07e-02 8.83e-03 5.01e-04 3.05e-03 4.32e-02  
## 2989 -5.80e-04 3.78e-03 1.98e-03 2.46e-03 -4.72e-03 6.75e-03 1.60e-02  
## 2990 -5.07e-04 -5.98e-04 6.89e-04 -1.63e-05 -6.81e-04 7.87e-04 -2.89e-03  
## 2991 7.93e-03 4.29e-03 1.54e-02 -2.70e-02 -5.59e-03 2.56e-02 6.10e-02  
## 2992 3.95e-03 -6.61e-03 -1.17e-02 1.41e-02 -1.01e-02 -3.41e-03 4.93e-02  
## 2993 -4.01e-02 3.30e-02 2.99e-03 -2.16e-02 1.01e-02 -2.36e-02 -1.09e-01  
## 2994 1.54e-02 1.23e-02 -1.20e-02 9.50e-04 2.78e-02 -1.19e-02 6.62e-02  
## 2995 -1.56e-03 -6.61e-03 2.74e-03 3.52e-03 -4.40e-03 1.88e-03 1.41e-02  
## 2996 -1.81e-02 -2.76e-03 4.80e-03 -2.52e-03 -1.04e-02 6.07e-03 -4.13e-02  
## 2997 -2.25e-03 -5.94e-03 3.98e-03 3.77e-03 -8.27e-03 5.52e-03 1.82e-02  
## 2998 -5.89e-03 -1.82e-04 6.22e-03 2.06e-03 -1.21e-03 -5.13e-03 2.24e-02  
## 2999 -2.12e-02 1.56e-02 1.20e-02 -7.97e-03 -2.31e-02 2.52e-03 -8.70e-02  
## 3000 1.12e-02 -4.40e-04 -2.00e-02 -1.21e-02 -2.09e-02 1.51e-02 -5.32e-02  
## 3001 -3.68e-03 -9.97e-03 -9.85e-03 8.09e-03 -1.39e-02 1.40e-03 3.33e-02  
## 3002 -1.11e-02 -5.89e-03 5.42e-03 -3.11e-03 -9.80e-03 1.16e-03 -4.23e-02  
## 3003 -1.65e-02 3.64e-03 7.87e-03 -8.78e-03 -1.66e-02 2.83e-03 -7.13e-02  
## 3004 -6.71e-04 2.80e-03 2.34e-03 3.17e-03 -4.04e-03 4.21e-03 1.27e-02  
## 3005 -4.67e-03 -5.17e-03 -1.38e-02 6.26e-03 -2.34e-02 1.14e-02 4.11e-02  
## 3006 1.34e-02 -9.82e-03 -8.57e-03 2.10e-02 1.06e-02 2.73e-03 7.35e-02  
## 3007 1.76e-04 4.85e-03 7.04e-04 1.60e-03 -1.05e-03 2.76e-03 8.47e-03  
## 3008 -1.19e-03 -2.13e-03 2.06e-03 1.70e-04 -4.63e-05 4.54e-04 -6.93e-03  
## 3009 -1.66e-02 1.32e-02 -8.27e-03 -6.82e-03 -1.38e-02 2.12e-03 5.35e-02  
## 3010 2.99e-02 -1.38e-02 -4.61e-03 1.07e-02 -2.99e-03 6.07e-03 6.80e-02  
## 3011 1.81e-03 -1.79e-03 2.76e-03 -2.14e-03 1.66e-03 -2.41e-05 -9.41e-03  
## 3012 3.94e-02 -3.96e-03 1.53e-02 3.21e-04 1.69e-02 -9.52e-03 -6.92e-02  
## 3013 2.18e-03 3.55e-03 -6.22e-03 6.42e-03 1.08e-03 -2.87e-03 2.13e-02  
## 3014 -1.54e-05 7.23e-05 1.12e-04 -1.70e-05 5.46e-07 -2.45e-04 6.60e-04  
## 3015 -8.74e-03 3.35e-02 -3.28e-02 -7.93e-03 1.92e-03 6.64e-03 -1.19e-01  
## 3016 2.17e-03 4.16e-05 2.49e-03 -1.70e-03 2.74e-03 -3.66e-04 1.37e-02  
## 3017 -2.37e-03 -5.31e-03 4.03e-03 3.48e-03 -9.49e-03 7.25e-03 1.95e-02  
## 3018 -2.42e-03 -5.00e-03 4.38e-03 3.60e-03 -1.07e-02 8.94e-03 2.15e-02  
## 3019 4.22e-03 -5.39e-04 -6.34e-03 -2.21e-04 5.73e-03 -1.60e-03 -1.99e-02  
## 3020 -1.95e-03 -5.98e-03 3.16e-03 3.14e-03 -6.48e-03 5.00e-03 1.82e-02  
## 3021 -1.42e-05 -2.82e-04 -8.95e-04 -2.72e-03 -1.05e-03 2.85e-03 -6.26e-03  
## 3022 -1.97e-02 -9.12e-04 4.58e-03 -4.28e-03 -1.03e-02 5.19e-03 -4.73e-02  
## 3023 -3.01e-03 -6.38e-03 -1.09e-02 5.63e-03 -1.41e-02 8.00e-03 2.64e-02  
## 3024 -1.38e-02 1.43e-02 2.83e-02 -2.35e-02 1.11e-02 9.85e-03 -1.26e-01  
## 3025 -1.02e-02 -2.91e-02 2.52e-02 1.51e-02 1.22e-02 -1.40e-02 -9.80e-02  
## 3026 -1.74e-02 -6.45e-03 5.90e-03 -2.30e-04 -1.54e-02 6.96e-03 -4.02e-02  
## 3027 -2.35e-02 1.61e-02 8.37e-03 -1.52e-02 -2.01e-02 -9.42e-03 -8.79e-02  
## 3028 1.20e-05 2.98e-03 5.97e-04 -1.46e-03 -8.01e-04 1.33e-03 5.01e-03  
## 3029 1.51e-04 5.17e-03 -2.08e-03 -3.30e-03 -1.04e-03 5.98e-03 1.49e-02  
## 3030 -1.65e-02 -4.64e-03 -1.95e-02 -4.44e-04 -1.63e-02 1.08e-02 -4.58e-02  
## 3031 1.77e-02 4.08e-04 -8.59e-03 7.00e-03 1.57e-02 6.96e-03 6.52e-02  
## 3032 1.85e-03 -1.36e-03 -1.10e-03 -1.11e-03 1.79e-04 -1.19e-03 6.12e-03  
## 3033 -3.39e-04 -2.58e-04 1.03e-03 -1.33e-03 -9.46e-04 3.43e-05 4.40e-03  
## 3034 -3.51e-03 1.05e-03 -2.47e-03 7.61e-03 -5.23e-03 1.20e-02 3.62e-02  
## 3035 -3.07e-04 2.90e-04 -4.42e-04 6.74e-05 -2.16e-04 -4.22e-04 2.52e-03  
## 3036 -5.83e-03 -3.45e-02 1.64e-02 -1.41e-03 8.51e-03 -5.08e-02 -1.21e-01  
## 3037 1.49e-03 2.93e-03 -1.19e-02 -1.28e-03 -8.30e-03 6.08e-03 4.93e-02  
## 3038 -1.27e-02 3.63e-02 -3.67e-02 3.68e-02 -1.24e-02 1.43e-02 -1.31e-01  
## 3039 -1.34e-02 -8.31e-03 1.51e-02 1.40e-03 1.75e-02 -2.45e-02 -8.74e-02  
## 3040 -5.81e-03 -8.79e-03 1.92e-02 -1.74e-02 1.36e-02 -2.00e-02 -6.60e-02  
## 3041 -9.32e-03 1.08e-03 -5.01e-03 4.26e-03 -3.23e-03 -1.93e-03 2.57e-02  
## 3042 -1.58e-04 -2.88e-03 -2.84e-03 -7.35e-03 -3.50e-03 1.05e-02 2.86e-02  
## 3043 2.97e-02 1.55e-02 -3.53e-02 3.00e-02 -2.26e-02 5.74e-03 -9.55e-02  
## 3044 3.20e-03 2.25e-03 1.32e-02 -1.34e-03 -5.33e-03 1.23e-02 3.83e-02  
## 3045 1.09e-02 2.31e-02 -1.93e-02 1.07e-02 4.79e-02 -3.89e-02 -9.05e-02  
## 3046 2.00e-02 1.27e-03 7.46e-03 1.13e-02 -2.02e-02 1.35e-02 -6.02e-02  
## 3047 4.17e-03 -6.44e-04 -6.59e-03 5.21e-03 6.45e-03 -2.62e-03 -2.07e-02  
## 3048 1.70e-03 -9.11e-03 -8.26e-03 1.28e-02 -6.23e-03 -1.75e-03 3.78e-02  
## 3049 9.49e-04 4.79e-03 -2.64e-03 -4.34e-03 8.85e-04 6.63e-03 1.84e-02  
## 3050 -9.50e-04 -2.20e-03 -1.49e-03 -5.28e-03 -1.32e-03 9.09e-03 2.50e-02  
## 3051 -2.65e-02 2.91e-02 -3.71e-02 8.25e-03 -2.99e-02 -1.44e-02 -1.08e-01  
## 3052 1.66e-03 1.55e-03 -1.33e-03 -2.26e-04 -2.68e-04 -1.10e-05 5.39e-03  
## 3053 -3.92e-04 -1.84e-04 9.92e-04 6.90e-05 -1.01e-03 3.43e-04 5.06e-03  
## 3054 -1.56e-02 -2.93e-02 2.49e-02 -2.81e-02 6.80e-03 -4.47e-03 -1.10e-01  
## 3055 -9.36e-06 6.79e-05 -2.45e-04 2.95e-04 1.68e-05 -2.72e-04 6.97e-04  
## 3056 1.74e-02 1.15e-02 -1.05e-02 -7.29e-03 -3.55e-03 3.58e-03 5.62e-02  
## 3057 8.99e-03 2.87e-03 1.59e-03 -5.20e-03 -5.29e-04 1.51e-02 -4.74e-02  
## 3058 8.56e-03 -1.04e-02 1.23e-02 1.26e-02 -9.57e-04 -4.19e-04 5.59e-02  
## 3059 -8.68e-03 -1.56e-02 -4.74e-03 9.81e-03 -1.36e-04 4.25e-04 5.90e-02  
## 3060 1.63e-02 -3.88e-04 -1.02e-02 4.70e-03 2.05e-02 5.02e-03 4.78e-02  
## 3061 4.04e-03 6.45e-03 -1.37e-02 1.19e-02 -9.03e-03 1.35e-02 4.60e-02  
## 3062 2.04e-02 9.39e-03 -1.16e-02 2.48e-02 2.68e-02 -4.55e-03 6.72e-02  
## 3063 2.17e-02 -4.96e-03 6.83e-03 -1.66e-03 -1.63e-02 1.34e-02 -5.31e-02  
## 3064 -1.04e-02 4.69e-03 -5.36e-03 -1.68e-03 5.17e-03 3.54e-03 3.81e-02  
## 3065 -2.96e-03 -6.79e-03 -1.06e-02 5.71e-03 -1.34e-02 7.05e-03 2.55e-02  
## 3066 -1.94e-02 -7.03e-03 1.21e-02 -9.54e-03 -1.42e-03 -4.16e-03 5.25e-02  
## 3067 -1.40e-03 1.88e-03 -1.76e-03 2.81e-03 -1.40e-03 -8.50e-04 6.87e-03  
## 3068 1.53e-03 9.94e-04 9.54e-04 -8.85e-04 1.02e-03 3.75e-04 -3.89e-03  
## 3069 -3.28e-03 6.37e-03 -4.07e-03 -4.90e-03 -6.33e-04 -2.92e-03 2.15e-02  
## 3070 4.16e-04 -7.89e-03 -6.06e-03 -2.77e-03 -6.39e-03 -1.81e-03 2.73e-02  
## 3071 -6.16e-04 -1.23e-03 -1.98e-03 -6.35e-03 -4.46e-03 1.15e-02 2.61e-02  
## 3072 -2.15e-03 4.29e-03 -2.66e-02 -1.16e-04 6.50e-03 2.47e-03 -9.37e-02  
## 3073 -1.11e-04 -2.24e-04 -9.63e-05 3.84e-05 -7.85e-05 3.67e-05 -6.01e-04  
## 3074 -1.14e-02 -6.00e-03 2.10e-03 -1.21e-03 -6.02e-03 6.62e-03 -3.21e-02  
## 3075 3.25e-02 5.86e-04 1.08e-02 3.45e-02 2.52e-02 8.84e-03 -8.47e-02  
## 3076 8.08e-03 4.47e-03 1.46e-02 9.45e-03 -2.79e-03 2.28e-02 5.60e-02  
## 3077 -2.12e-02 -3.37e-03 -2.30e-02 1.45e-05 -2.21e-02 7.36e-03 -5.28e-02  
## 3078 1.73e-04 -1.40e-04 3.31e-04 -8.07e-05 4.12e-06 -8.60e-05 1.31e-03  
## 3079 1.39e-04 6.50e-04 -3.39e-04 1.27e-04 1.23e-04 6.78e-04 -1.75e-03  
## 3080 -1.13e-03 5.60e-03 -9.44e-03 4.40e-03 -8.20e-03 6.59e-03 2.05e-02  
## 3081 9.00e-03 -1.10e-03 2.37e-03 1.61e-02 -6.57e-03 2.27e-02 -4.65e-02  
## 3082 -2.15e-02 -1.19e-02 -8.36e-03 -2.78e-02 1.37e-02 -2.00e-02 8.31e-02  
## 3083 -1.65e-02 -4.29e-03 3.70e-03 -2.23e-03 -1.15e-02 6.78e-03 -3.71e-02  
## 3084 3.11e-04 -4.24e-04 -4.09e-04 -7.18e-04 -3.92e-05 7.90e-05 -1.91e-03  
## 3085 3.56e-03 -2.04e-03 4.47e-03 -3.06e-07 4.88e-03 -4.81e-04 -1.68e-02  
## 3086 -1.44e-02 -5.23e-03 1.56e-02 -1.57e-02 1.81e-02 -8.82e-03 -7.14e-02  
## 3087 -6.63e-04 3.68e-03 2.56e-03 -9.37e-03 -5.94e-03 6.67e-03 1.85e-02  
## 3088 -1.20e-02 -1.06e-02 1.77e-02 -1.48e-02 1.05e-02 -3.44e-02 -8.07e-02  
## 3089 1.98e-03 2.38e-03 -4.59e-03 -2.53e-03 -2.91e-04 -2.87e-04 1.84e-02  
## 3090 6.84e-03 4.71e-03 -5.55e-03 -2.98e-03 -4.10e-03 -4.81e-04 2.97e-02  
## 3091 -2.27e-02 -3.63e-03 2.75e-02 3.08e-03 2.85e-02 -1.64e-02 7.36e-02  
## 3092 -7.36e-04 1.28e-03 -1.48e-03 2.87e-04 2.57e-04 -1.35e-03 8.82e-03  
## 3093 -2.14e-03 -5.23e-03 3.44e-03 2.84e-03 -8.35e-03 7.84e-03 2.12e-02  
## 3094 -2.03e-02 6.09e-03 9.69e-03 -2.66e-02 -1.50e-02 9.36e-03 -8.33e-02  
## 3095 -5.91e-04 1.60e-03 2.11e-03 3.15e-03 -2.94e-03 2.51e-03 1.05e-02  
## 3096 2.11e-02 -1.60e-02 -3.35e-03 -1.44e-03 -1.71e-03 3.35e-03 4.68e-02  
## 3097 9.22e-03 -1.30e-02 -4.91e-03 -9.66e-03 4.98e-03 4.92e-03 3.93e-02  
## 3098 -5.86e-03 1.73e-02 -2.57e-02 1.23e-04 6.26e-03 -9.56e-04 -9.72e-02  
## 3099 1.12e-02 9.55e-03 3.14e-02 8.80e-03 6.10e-02 -3.85e-02 -1.06e-01  
## 3100 1.86e-02 1.38e-02 -1.02e-02 3.98e-03 1.65e-02 -2.87e-03 7.57e-02  
## 3101 1.94e-03 -6.74e-03 6.79e-03 -9.43e-03 -1.55e-03 1.22e-03 2.36e-02  
## 3102 3.90e-05 -1.36e-03 -8.40e-04 6.77e-04 -4.20e-04 1.30e-03 -4.98e-03  
## 3103 -2.26e-05 -1.63e-04 1.25e-04 1.73e-04 1.05e-04 -3.45e-04 -7.55e-04  
## 3104 -3.71e-03 -1.06e-04 -4.35e-03 -2.55e-03 6.59e-03 -1.05e-03 3.40e-02  
## 3105 -6.61e-05 1.04e-03 -1.59e-03 -1.39e-03 -3.83e-04 -1.23e-03 4.53e-03  
## 3106 -2.51e-03 -4.76e-03 4.20e-03 3.38e-03 -1.11e-02 9.33e-03 2.14e-02  
## 3107 -2.36e-03 -4.00e-02 1.68e-02 -2.89e-02 3.53e-05 -4.79e-02 -1.23e-01  
## 3108 8.89e-05 -1.53e-04 9.59e-05 1.17e-04 -4.48e-05 -2.11e-04 -6.29e-04  
## 3109 -1.27e-02 -1.21e-02 -4.13e-03 9.77e-03 3.84e-03 2.09e-03 6.40e-02  
## 3110 -1.67e-02 -1.12e-02 1.72e-02 -2.32e-02 -9.69e-03 -1.15e-02 5.86e-02  
## 3111 -1.47e-02 -9.93e-04 8.27e-03 -4.90e-03 -1.45e-02 1.64e-02 -5.96e-02  
## 3112 -9.82e-03 6.99e-03 1.64e-02 -3.38e-03 8.91e-03 2.22e-03 4.87e-02  
## 3113 -5.66e-04 -3.63e-03 -1.85e-03 5.62e-03 -4.57e-03 7.67e-03 2.54e-02  
## 3114 -1.28e-04 -3.15e-04 3.23e-04 -2.95e-04 -1.32e-04 -3.72e-04 1.47e-03  
## 3115 -2.27e-02 3.73e-03 2.54e-03 5.69e-03 -4.38e-03 -2.52e-04 -5.49e-02  
## 3116 -6.07e-06 4.14e-05 -1.49e-04 2.61e-06 -3.71e-06 -1.94e-04 4.49e-04  
## 3117 -2.07e-02 1.63e-02 -3.27e-02 -3.41e-03 1.87e-02 -1.87e-03 -1.12e-01  
## 3118 2.95e-04 1.33e-03 -6.80e-04 8.99e-04 -9.18e-05 1.77e-03 -4.24e-03  
## 3119 1.69e-02 2.86e-03 -1.04e-02 -1.30e-02 2.15e-02 5.60e-03 5.05e-02  
## 3120 4.89e-03 -2.61e-03 -6.68e-03 6.11e-03 2.04e-03 -3.81e-03 -2.53e-02  
## 3121 -2.47e-03 -5.08e-03 3.85e-03 3.26e-03 -9.85e-03 7.56e-03 1.94e-02  
## 3122 1.97e-03 -6.71e-03 4.64e-03 -2.85e-03 1.04e-03 -1.73e-03 2.15e-02  
## 3123 -1.14e-02 1.14e-02 1.79e-02 -7.67e-03 1.23e-03 -1.72e-03 -9.49e-02  
## 3124 -1.96e-03 -5.16e-03 3.17e-03 -6.53e-03 -7.64e-03 6.65e-03 1.88e-02  
## 3125 1.34e-02 -6.02e-04 -2.51e-03 -5.65e-03 -6.66e-04 7.67e-03 2.60e-02  
## 3126 -7.72e-03 9.70e-04 6.76e-03 -9.10e-03 -2.11e-03 -3.56e-03 2.73e-02  
## 3127 6.43e-03 -2.12e-03 -5.08e-03 3.63e-03 4.95e-03 -4.74e-04 -2.10e-02  
## 3128 1.82e-02 3.79e-03 -1.32e-02 1.85e-02 3.08e-02 -1.10e-02 6.99e-02  
## 3129 -2.78e-03 -2.22e-03 -1.72e-03 -1.84e-03 2.21e-04 -2.22e-03 1.13e-02  
## 3130 -7.79e-04 -3.90e-03 1.29e-03 -2.81e-03 -1.61e-03 -4.64e-04 6.59e-03  
## 3131 1.10e-02 1.66e-02 2.04e-03 -9.75e-03 1.49e-03 1.96e-03 -7.00e-02  
## 3132 -1.65e-02 -2.15e-03 9.99e-03 -4.14e-03 -2.33e-02 -1.96e-03 -4.74e-02  
## 3133 -3.21e-03 4.37e-04 -4.53e-03 -1.29e-02 2.15e-03 -2.74e-03 3.99e-02  
## 3134 -5.58e-03 -8.52e-03 1.91e-02 1.58e-03 1.57e-02 -2.17e-02 -6.46e-02  
## 3135 -1.57e-02 4.19e-03 -2.74e-02 4.92e-02 6.83e-03 -3.41e-02 -1.17e-01  
## 3136 1.98e-02 -1.96e-03 2.28e-02 2.92e-03 2.87e-02 -4.75e-03 6.02e-02  
## 3137 1.87e-02 5.37e-04 5.80e-03 9.95e-03 -1.36e-02 2.81e-02 -7.22e-02  
## 3138 1.07e-02 1.99e-02 -1.79e-02 -1.38e-02 4.60e-02 -3.88e-02 -9.13e-02  
## 3139 9.97e-03 -1.17e-02 -9.17e-03 2.94e-03 -1.40e-02 -1.36e-02 5.75e-02  
## 3140 -2.42e-03 -5.38e-03 3.76e-03 3.37e-03 -9.24e-03 6.63e-03 1.86e-02  
## 3141 -1.27e-02 -8.46e-03 7.92e-03 2.68e-02 -2.05e-02 6.48e-03 -5.79e-02  
## 3142 1.30e-02 5.69e-03 5.69e-03 -1.64e-02 -1.93e-02 2.96e-02 -6.91e-02  
## 3143 -1.16e-02 -1.17e-02 2.76e-02 5.36e-03 2.28e-02 -2.40e-02 8.23e-02  
## 3144 8.44e-03 -1.02e-02 1.12e-02 -2.85e-03 1.20e-02 2.74e-03 3.44e-02  
## 3145 -2.01e-02 -9.22e-03 1.25e-02 1.14e-02 -4.49e-03 -6.31e-03 4.81e-02  
## 3146 8.50e-03 -2.93e-04 -1.23e-02 1.40e-02 -2.06e-03 1.39e-02 5.51e-02  
## 3147 1.24e-02 -5.26e-03 1.67e-02 1.54e-02 2.72e-02 -4.81e-03 5.64e-02  
## 3148 -1.05e-02 5.93e-03 -8.89e-03 -1.55e-02 1.54e-02 -8.80e-03 5.16e-02  
## 3149 1.26e-03 -6.65e-03 9.72e-03 2.41e-03 -4.57e-03 9.14e-05 3.34e-02  
## 3150 1.38e-02 9.88e-03 2.92e-02 1.11e-03 2.38e-02 -8.26e-03 7.63e-02  
## 3151 -3.52e-04 -3.40e-04 8.89e-04 1.70e-03 -5.58e-04 -6.20e-05 5.49e-03  
## 3152 -1.83e-03 -7.07e-03 3.08e-03 4.05e-03 -4.59e-03 3.27e-04 1.38e-02  
## 3153 -6.87e-03 4.61e-04 -2.56e-02 -2.10e-02 6.11e-03 -1.89e-02 -7.66e-02  
## 3154 -1.09e-02 9.72e-03 2.31e-02 -2.71e-02 1.53e-02 -4.30e-03 -9.68e-02  
## 3155 -2.77e-02 1.56e-02 -4.64e-03 4.15e-03 1.45e-02 -3.57e-02 1.07e-01  
## 3156 -5.41e-03 -1.25e-03 -3.85e-03 3.68e-03 -6.95e-03 6.30e-03 -2.16e-02  
## 3157 -6.75e-04 1.95e-03 1.90e-03 2.71e-03 -3.40e-03 3.19e-03 1.05e-02  
## 3158 -2.26e-02 -8.45e-03 2.19e-02 1.65e-02 -1.49e-02 -2.96e-03 6.38e-02  
## 3159 -2.24e-02 -9.79e-03 2.94e-02 8.48e-03 9.26e-03 -3.68e-03 6.99e-02  
## 3160 -9.99e-03 -1.20e-02 -5.30e-03 7.43e-03 8.82e-03 -1.23e-02 6.13e-02  
## 3161 -3.99e-04 -5.91e-05 1.19e-03 2.23e-03 -1.06e-03 4.89e-04 6.66e-03  
## 3162 2.40e-03 -5.76e-03 8.50e-03 -1.32e-02 -3.21e-03 3.15e-03 3.27e-02  
## 3163 4.67e-03 -2.50e-03 4.17e-03 -6.70e-03 9.97e-04 1.35e-03 -1.58e-02  
## 3164 -5.22e-04 -1.43e-03 -3.05e-03 3.15e-03 -8.13e-04 -2.29e-03 7.97e-03  
## 3165 1.86e-03 -8.42e-04 -1.32e-03 1.05e-03 -7.43e-04 -7.93e-04 6.13e-03  
## 3166 -1.07e-02 1.95e-02 2.84e-02 6.89e-03 1.98e-02 -1.26e-02 6.67e-02  
## 3167 1.15e-04 7.13e-03 -5.18e-03 -2.91e-03 -2.39e-03 2.35e-03 1.22e-02  
## 3168 1.41e-02 8.24e-03 5.48e-03 -5.27e-03 -1.42e-02 9.93e-03 -7.02e-02  
## 3169 -6.16e-04 1.41e-03 2.03e-03 3.26e-03 -3.11e-03 2.28e-03 1.22e-02  
## 3170 -8.42e-03 -3.25e-04 -5.84e-03 -1.46e-03 -2.71e-04 -2.31e-03 4.39e-02  
## 3171 2.08e-02 5.00e-05 -2.62e-02 2.47e-02 -1.73e-02 2.87e-03 -7.00e-02  
## 3172 1.62e-05 8.11e-04 5.23e-04 1.36e-03 1.17e-04 -9.55e-04 3.41e-03  
## 3173 -5.13e-03 -2.43e-04 -2.39e-03 -5.43e-03 -3.73e-03 3.34e-03 -1.46e-02  
## 3174 -4.34e-02 4.09e-02 -3.98e-02 -1.64e-02 -2.66e-02 -9.47e-03 -1.28e-01  
## 3175 5.79e-05 5.73e-03 -4.74e-03 3.18e-03 -1.47e-03 8.92e-04 1.06e-02  
## 3176 -2.38e-03 -5.16e-03 4.34e-03 3.66e-03 -1.04e-02 8.50e-03 2.10e-02  
## 3177 2.04e-03 -1.29e-03 1.71e-03 -3.08e-03 9.53e-04 4.49e-04 -6.91e-03  
## 3178 -5.09e-04 1.94e-02 -5.50e-03 -2.28e-03 1.18e-02 5.81e-03 4.33e-02  
## 3179 -1.78e-02 -8.42e-03 9.82e-03 -1.32e-02 1.39e-02 -1.68e-02 -7.88e-02  
## 3180 5.48e-04 -5.26e-04 6.26e-04 -1.00e-04 1.17e-03 -2.95e-04 -3.18e-03  
## 3181 -1.15e-02 -1.08e-02 -2.36e-02 -1.42e-02 9.87e-03 -3.46e-02 -9.19e-02  
## 3182 3.83e-06 -1.10e-03 -1.46e-03 7.36e-04 -1.84e-03 3.67e-03 -9.17e-03  
## 3183 2.36e-02 -1.25e-02 -6.73e-03 6.55e-03 1.04e-02 -5.03e-03 5.69e-02  
## 3184 -3.36e-03 2.21e-03 2.49e-02 -1.18e-03 1.49e-02 -9.17e-03 -7.95e-02  
## 3185 -1.75e-03 -6.70e-03 2.99e-03 3.70e-03 -5.46e-03 2.96e-03 1.57e-02  
## 3186 -2.48e-04 2.74e-04 7.80e-04 -6.43e-04 4.29e-04 -3.05e-04 3.16e-03  
## 3187 5.79e-03 4.14e-03 -1.05e-02 -1.32e-02 -1.32e-02 1.36e-02 6.76e-02  
## 3188 8.23e-05 -5.55e-04 1.15e-03 9.37e-04 -7.70e-05 1.08e-03 -3.07e-03  
## 3189 1.81e-04 6.45e-03 7.89e-04 1.68e-03 -1.75e-03 4.15e-03 1.11e-02  
## 3190 2.43e-02 3.29e-02 -3.78e-02 8.15e-03 1.83e-02 1.64e-02 -1.19e-01  
## 3191 1.75e-02 -2.19e-05 2.40e-02 3.07e-03 2.95e-02 -1.75e-02 6.91e-02  
## 3192 -6.89e-04 4.88e-03 2.65e-03 3.04e-03 -5.78e-03 7.28e-03 1.66e-02  
## 3193 3.35e-02 -2.25e-02 1.75e-02 3.72e-02 1.95e-02 4.28e-03 -1.10e-01  
## 3194 -5.14e-03 1.08e-02 -4.81e-03 -1.78e-02 2.81e-03 -2.25e-03 5.24e-02  
## 3195 7.22e-05 -5.30e-04 -1.37e-03 2.00e-03 -4.21e-04 2.98e-03 -7.80e-03  
## 3196 1.10e-02 3.07e-02 4.69e-03 -1.64e-02 7.29e-03 7.94e-04 -7.70e-02  
## 3197 -4.46e-03 7.65e-03 -3.67e-03 7.96e-03 -3.64e-03 -2.68e-04 2.20e-02  
## 3198 -3.35e-02 4.50e-03 -1.32e-02 -1.20e-03 -1.40e-02 7.23e-03 5.81e-02  
## 3199 4.36e-03 -1.30e-03 -6.79e-03 5.18e-03 8.50e-03 -3.67e-03 -2.20e-02  
## 3200 -3.96e-04 -7.42e-04 -2.24e-03 -2.48e-03 -1.08e-03 -4.62e-04 6.03e-03  
## 3201 -5.25e-05 -1.69e-04 1.43e-04 1.99e-04 3.84e-05 -4.11e-04 -8.76e-04  
## 3202 -2.33e-03 -5.68e-03 4.23e-03 3.86e-03 -9.42e-03 7.01e-03 1.97e-02  
## 3203 -3.15e-03 -5.50e-03 -1.00e-02 -9.23e-03 -1.57e-02 1.01e-02 2.66e-02  
## 3204 -1.13e-02 1.65e-03 -5.38e-03 -1.35e-03 -7.46e-03 -1.21e-03 2.95e-02  
## 3205 8.01e-03 -3.28e-03 2.26e-03 -1.18e-03 -6.78e-03 1.15e-02 -2.88e-02  
## 3206 -2.79e-03 2.55e-03 -2.31e-03 -3.97e-03 -7.15e-04 7.30e-04 -1.07e-02  
## 3207 -6.03e-04 1.25e-03 1.93e-03 -3.34e-03 -3.07e-03 2.54e-03 9.24e-03  
## 3208 1.43e-02 -1.02e-02 -7.10e-03 7.16e-03 1.16e-02 -2.77e-03 4.96e-02  
## 3209 3.86e-03 -1.53e-04 3.70e-03 -1.54e-03 3.93e-03 -1.73e-03 1.92e-02  
## 3210 1.34e-02 1.13e-02 -5.01e-03 -1.33e-02 7.26e-03 5.37e-03 4.83e-02  
## 3211 1.38e-02 -8.13e-03 -6.17e-03 8.29e-03 8.96e-03 3.12e-03 5.00e-02  
## 3212 -1.12e-02 3.63e-03 -2.27e-02 -2.05e-02 5.53e-03 -1.10e-02 -9.57e-02  
## 3213 -3.14e-03 -4.84e-03 -1.17e-02 5.02e-03 -1.65e-02 1.16e-02 2.92e-02  
## 3214 4.13e-03 -4.56e-04 3.67e-03 -2.10e-04 3.59e-03 1.93e-03 1.23e-02  
## 3215 3.46e-05 4.67e-03 1.22e-03 2.87e-03 -1.06e-03 6.35e-04 1.03e-02  
## 3216 4.73e-03 -1.85e-03 -3.95e-03 -2.97e-04 1.30e-03 -1.48e-03 -1.73e-02  
## 3217 8.46e-03 -7.30e-05 -1.21e-02 -1.52e-03 -5.96e-03 1.63e-02 5.62e-02  
## 3218 2.75e-03 1.97e-03 1.29e-02 -2.29e-02 -6.73e-03 1.31e-02 4.26e-02  
## 3219 5.98e-03 2.97e-03 1.45e-02 -1.31e-02 -4.57e-03 1.46e-02 5.95e-02  
## 3220 2.71e-02 8.86e-03 1.03e-02 -2.69e-03 2.16e-02 1.38e-02 -7.53e-02  
## 3221 -2.27e-02 -6.73e-03 -1.06e-02 2.29e-03 -1.25e-02 -7.40e-03 5.83e-02  
## 3222 -2.28e-03 -5.71e-03 4.16e-03 3.75e-03 -8.81e-03 6.38e-03 1.92e-02  
## 3223 1.22e-02 -3.39e-03 -1.14e-02 1.44e-02 -8.00e-03 3.63e-03 5.70e-02  
## 3224 -2.54e-03 2.26e-03 -4.51e-03 8.06e-03 8.19e-04 6.19e-03 3.71e-02  
## 3225 9.41e-03 -6.75e-04 2.64e-03 -2.80e-03 -7.25e-03 1.10e-02 -3.38e-02  
## 3226 5.90e-05 -7.03e-04 -1.42e-03 -5.04e-03 -2.78e-03 5.27e-03 -1.16e-02  
## 3227 -1.29e-02 -1.25e-02 1.07e-02 1.02e-02 -5.66e-03 -1.60e-02 4.15e-02  
## 3228 5.86e-04 5.73e-04 1.54e-03 2.52e-03 6.74e-04 -6.09e-04 7.29e-03  
## 3229 1.20e-02 5.97e-03 -1.41e-02 -5.81e-04 -1.61e-02 2.02e-02 8.28e-02  
## 3230 4.36e-05 1.39e-03 3.07e-04 8.36e-04 -6.00e-05 3.27e-04 2.76e-03  
## 3231 -1.29e-03 1.51e-03 -1.43e-03 8.77e-05 -1.22e-03 2.09e-03 -7.01e-03  
## 3232 1.55e-03 -2.70e-03 1.42e-02 1.69e-03 -6.56e-03 -4.25e-04 4.28e-02  
## 3233 1.15e-04 -5.72e-04 2.92e-03 2.47e-04 -8.84e-04 3.28e-03 -7.33e-03  
## 3234 1.85e-06 1.23e-04 3.26e-05 -6.39e-05 -1.55e-05 3.33e-05 2.52e-04  
## 3235 3.41e-03 -5.60e-03 -9.48e-03 1.07e-02 -4.56e-03 2.51e-03 3.60e-02  
## 3236 1.26e-02 -3.73e-03 -4.50e-02 3.05e-02 -8.02e-03 -2.02e-02 -1.15e-01  
## 3237 1.05e-02 1.97e-02 -1.79e-02 -1.38e-02 4.53e-02 -3.84e-02 -9.07e-02  
## 3238 1.82e-04 6.26e-03 7.90e-04 1.55e-03 -1.25e-03 3.68e-03 1.08e-02  
## 3239 -2.67e-02 -3.85e-03 -1.00e-02 2.61e-03 -7.51e-03 1.90e-03 6.33e-02  
## 3240 8.30e-04 -1.64e-03 -1.19e-02 -1.02e-02 -1.26e-02 2.81e-03 4.68e-02  
## 3241 -2.80e-02 2.72e-02 -3.24e-02 -9.42e-03 -3.95e-02 2.30e-02 -1.12e-01  
## 3242 -1.70e-02 -1.35e-03 -2.57e-02 -1.69e-02 9.20e-03 -7.32e-03 -7.93e-02  
## 3243 7.51e-04 3.02e-03 -1.17e-03 -2.39e-03 -6.92e-04 5.20e-03 1.12e-02  
## 3244 1.38e-02 -4.57e-03 2.87e-03 -2.66e-03 -6.93e-03 6.49e-03 -3.82e-02  
## 3245 4.28e-03 -3.43e-03 -1.13e-02 1.25e-02 -6.54e-03 -1.88e-03 4.98e-02  
## 3246 -9.88e-04 5.04e-03 -9.39e-03 4.92e-03 -7.81e-03 5.57e-03 2.30e-02  
## 3247 1.61e-02 1.26e-02 2.41e-03 2.36e-02 7.15e-03 3.16e-03 -7.73e-02  
## 3248 3.96e-03 6.30e-03 -9.36e-03 9.78e-03 -1.40e-04 -1.84e-03 3.44e-02  
## 3249 -9.65e-03 -2.00e-02 -6.77e-03 -5.27e-03 1.47e-03 -7.35e-03 6.04e-02  
## 3250 -1.62e-02 -2.07e-03 -4.77e-03 7.02e-03 1.19e-02 -3.12e-02 9.25e-02  
## 3251 -1.84e-03 -2.52e-03 -1.85e-03 -1.34e-04 -2.72e-03 6.47e-03 2.36e-02  
## 3252 4.03e-03 5.61e-03 -4.74e-03 4.55e-03 4.12e-03 5.05e-06 -1.62e-02  
## 3253 -1.72e-02 -4.95e-03 -6.30e-03 2.29e-02 1.24e-02 -1.40e-02 6.98e-02  
## 3254 8.65e-03 7.92e-03 -1.39e-02 -2.98e-03 -1.02e-02 2.78e-02 6.17e-02  
## 3255 1.73e-02 5.67e-03 2.60e-02 -1.57e-02 3.11e-02 1.63e-03 5.71e-02  
## 3256 -2.24e-02 1.85e-02 1.36e-02 -9.83e-03 -2.70e-02 9.27e-03 -8.99e-02  
## 3257 3.25e-03 -1.41e-03 4.58e-03 -2.04e-04 3.50e-03 3.27e-05 -1.58e-02  
## 3258 -3.50e-02 2.25e-02 -3.18e-02 -1.02e-02 -1.66e-02 5.78e-03 -8.49e-02  
## 3259 6.11e-03 -9.02e-03 6.50e-03 -5.06e-03 5.26e-03 4.31e-04 2.22e-02  
## 3260 3.23e-02 -1.06e-02 -1.01e-02 4.19e-03 2.58e-02 -2.06e-02 8.57e-02  
## 3261 -2.07e-02 8.57e-03 1.24e-02 -7.78e-03 -2.96e-02 -4.19e-03 -6.81e-02  
## 3262 1.64e-04 6.95e-04 -2.60e-03 4.29e-03 -4.05e-03 8.83e-03 -1.79e-02  
## 3263 -5.81e-06 -2.55e-05 1.65e-05 3.86e-05 2.56e-06 -2.78e-05 9.36e-05  
## 3264 -1.34e-02 5.59e-03 1.12e-02 1.22e-02 -4.10e-03 -4.26e-03 4.53e-02  
## 3265 -1.64e-05 -7.53e-05 4.43e-05 -1.10e-05 -9.03e-06 -9.83e-05 2.25e-04  
## 3266 -2.04e-02 -2.49e-03 -7.11e-03 2.89e-02 2.87e-02 -4.70e-02 1.07e-01  
## 3267 9.07e-03 -2.59e-03 8.18e-04 -2.96e-03 -3.68e-03 1.39e-02 -3.87e-02  
## 3268 -1.03e-02 -6.49e-03 9.12e-03 -1.45e-03 -1.90e-02 1.25e-02 -5.19e-02  
## 3269 -2.19e-02 1.32e-02 -3.14e-02 -8.04e-03 -3.52e-02 -4.00e-03 -7.41e-02  
## 3270 -6.81e-03 -1.77e-02 -4.60e-03 7.18e-03 5.38e-03 -1.06e-02 5.35e-02  
## 3271 2.51e-04 6.10e-03 1.09e-03 2.33e-03 -1.15e-03 2.50e-03 1.08e-02  
## 3272 1.83e-02 -5.17e-03 6.61e-03 -1.33e-03 -1.55e-02 6.09e-03 -4.17e-02  
## 3273 -5.36e-04 1.27e-03 1.57e-03 2.51e-03 -2.49e-03 2.70e-03 1.02e-02  
## 3274 -3.23e-04 3.11e-04 -2.63e-04 -3.27e-04 -3.61e-04 1.23e-04 1.54e-03  
## 3275 1.48e-03 9.17e-04 2.17e-03 -1.71e-03 1.21e-03 3.48e-04 9.77e-03  
## 3276 -1.82e-03 -3.18e-03 -1.80e-03 -1.93e-03 -1.40e-03 1.77e-03 -1.06e-02  
## 3277 -2.24e-03 2.37e-02 -5.43e-03 6.82e-03 1.02e-02 6.48e-03 4.54e-02  
## 3278 -1.94e-03 -7.67e-04 1.22e-02 -7.86e-03 -1.12e-03 6.72e-03 2.80e-02  
## 3279 1.77e-04 1.13e-03 9.60e-04 4.58e-05 -7.14e-05 1.37e-03 -3.04e-03  
## 3280 2.68e-02 -1.09e-02 -5.39e-03 8.66e-03 8.60e-03 4.54e-03 5.87e-02  
## 3281 6.40e-03 -3.20e-03 4.50e-03 -1.17e-04 1.04e-03 5.00e-04 -1.79e-02  
## 3282 1.04e-02 5.63e-03 1.56e-03 -6.69e-03 1.83e-03 -3.42e-03 -5.02e-02  
## 3283 8.07e-03 -1.59e-02 7.45e-03 -6.60e-03 -2.10e-02 1.59e-02 -6.74e-02  
## 3284 2.15e-04 4.45e-03 7.42e-04 1.73e-03 -6.05e-04 2.10e-03 7.81e-03  
## 3285 2.03e-02 -1.26e-02 -4.10e-03 -1.81e-02 3.05e-03 2.91e-03 6.10e-02  
## 3286 7.75e-03 -2.40e-03 1.06e-02 9.69e-03 -1.00e-03 7.15e-03 5.29e-02  
## 3287 1.24e-03 -6.02e-03 3.90e-03 1.22e-03 1.86e-04 -7.27e-04 1.62e-02  
## 3288 -2.37e-02 2.08e-03 -9.62e-03 -1.71e-02 -1.61e-02 1.51e-03 8.24e-02  
## 3289 -3.73e-02 2.39e-03 -1.14e-02 1.48e-03 -2.10e-02 -4.95e-03 7.03e-02  
## 3290 -1.35e-02 -6.83e-03 1.05e-02 -1.45e-02 -2.27e-02 2.13e-04 -5.08e-02  
## 3291 -1.08e-02 -1.06e-03 -6.92e-03 5.68e-03 3.64e-03 -7.70e-04 -2.66e-02  
## 3292 4.49e-03 -6.42e-03 -9.14e-03 -6.29e-03 -8.08e-03 3.52e-03 3.76e-02  
## 3293 -1.86e-03 2.76e-03 2.46e-03 -6.01e-04 -1.35e-03 -8.23e-04 9.73e-03  
## 3294 -2.36e-03 -5.34e-03 4.31e-03 3.73e-03 -1.00e-02 8.03e-03 2.06e-02  
## 3295 -1.07e-04 -1.84e-03 -1.31e-03 -2.01e-04 -1.74e-03 4.20e-03 1.04e-02  
## 3296 -2.94e-04 -6.30e-04 9.17e-04 1.90e-03 -3.60e-04 -5.02e-04 4.85e-03  
## 3297 -1.06e-02 -1.02e-02 6.41e-03 -6.42e-04 -1.32e-02 -5.20e-04 -4.11e-02  
## 3298 9.00e-03 -1.77e-02 7.35e-03 -9.24e-03 -9.38e-03 1.62e-02 -6.28e-02  
## 3299 -1.11e-02 -5.40e-03 -2.48e-02 2.79e-02 -1.89e-02 1.07e-02 -6.57e-02  
## 3300 9.99e-04 7.34e-03 -2.17e-03 5.15e-03 -2.36e-03 8.47e-03 2.27e-02  
## 3301 -1.31e-02 -1.24e-02 3.49e-02 8.38e-03 3.41e-03 4.18e-03 7.38e-02  
## 3302 1.52e-02 -1.29e-03 -1.12e-02 2.80e-03 2.83e-02 -1.76e-02 7.55e-02  
## 3303 -2.20e-03 3.06e-03 2.92e-03 1.65e-03 -8.64e-04 -8.09e-05 1.05e-02  
## 3304 1.85e-04 1.02e-02 2.20e-03 4.21e-03 -3.19e-03 2.97e-03 1.97e-02  
## 3305 -4.74e-04 2.02e-04 1.48e-03 -2.15e-03 -1.85e-03 9.37e-04 6.47e-03  
## 3306 -1.72e-02 -6.30e-03 -2.06e-02 -1.71e-04 -1.50e-02 6.22e-03 -5.10e-02  
## 3307 7.86e-03 -1.25e-02 -5.90e-03 5.05e-03 -1.63e-03 -7.37e-03 4.15e-02  
## 3308 -2.46e-03 -4.67e-03 4.30e-03 3.30e-03 -1.07e-02 9.13e-03 2.16e-02  
## 3309 -2.52e-03 -4.52e-03 3.98e-03 -2.75e-03 -1.09e-02 9.01e-03 2.00e-02  
## 3310 1.33e-02 7.89e-03 1.24e-02 4.93e-03 1.66e-02 -4.21e-04 3.85e-02  
## 3311 -1.25e-03 -2.55e-03 -1.74e-03 -6.47e-03 -6.90e-03 7.97e-03 2.66e-02  
## 3312 8.65e-03 3.36e-03 7.29e-03 -1.03e-02 -3.97e-04 -3.70e-03 3.59e-02  
## 3313 -3.82e-03 3.14e-03 -3.83e-03 3.76e-04 8.15e-04 9.44e-04 -1.46e-02  
## 3314 -1.72e-02 4.12e-03 -2.37e-02 -2.00e-02 1.37e-03 -1.85e-02 -9.74e-02  
## 3315 3.08e-02 2.42e-03 1.44e-02 -2.29e-04 1.69e-02 1.13e-02 -7.72e-02  
## 3316 -2.84e-02 -5.42e-03 -1.03e-02 -8.78e-03 -1.57e-02 -9.67e-04 6.06e-02  
## 3317 -1.39e-05 -2.89e-04 -4.04e-04 -1.13e-03 -2.34e-04 1.01e-03 -2.64e-03  
## 3318 1.49e-02 -4.71e-03 3.09e-03 -2.37e-03 -5.83e-03 5.87e-03 -3.69e-02  
## 3319 -1.39e-03 -6.62e-03 2.40e-03 3.41e-03 -2.72e-03 -2.36e-04 1.31e-02  
## 3320 2.13e-02 5.13e-03 2.60e-02 9.94e-04 3.43e-02 -1.05e-02 7.05e-02  
## 3321 1.53e-02 -5.01e-03 4.51e-03 -1.50e-03 -1.13e-02 8.83e-03 -3.63e-02  
## 3322 -3.42e-02 -7.13e-03 2.11e-02 1.05e-02 2.41e-02 1.97e-02 -1.36e-01  
## 3323 -4.26e-03 -6.71e-04 9.17e-03 5.29e-03 3.15e-03 5.56e-03 2.60e-02  
## 3324 1.93e-02 1.38e-02 -1.30e-02 8.86e-04 3.03e-02 -2.57e-04 5.79e-02  
## 3325 4.04e-03 -6.49e-03 -9.26e-03 1.19e-02 -4.21e-03 2.14e-03 4.09e-02  
## 3326 9.73e-03 2.17e-02 3.24e-03 -1.26e-02 1.19e-02 -7.97e-03 -7.24e-02  
## 3327 -6.87e-03 -6.29e-03 -2.39e-02 -1.73e-02 4.94e-03 -1.97e-02 -7.13e-02  
## 3328 -7.84e-06 1.81e-03 3.22e-04 -1.78e-03 -5.39e-04 1.07e-03 3.76e-03  
## 3329 9.51e-03 1.76e-02 3.73e-03 -1.11e-02 2.82e-03 2.06e-03 -6.20e-02  
## 3330 -3.26e-03 -7.93e-03 5.61e-03 -1.41e-03 -1.25e-02 4.53e-03 2.54e-02  
## 3331 -4.99e-05 -1.05e-03 -9.18e-04 -3.03e-03 -1.49e-03 2.54e-03 -6.87e-03  
## 3332 1.97e-02 1.11e-02 -1.15e-02 3.82e-03 2.48e-02 -3.63e-03 6.35e-02  
## 3333 1.89e-02 8.77e-03 9.65e-03 -4.76e-03 -1.98e-02 1.88e-02 -6.95e-02  
## 3334 4.24e-03 -1.08e-03 -5.98e-03 9.48e-06 6.52e-03 -2.52e-03 -1.94e-02  
## 3335 -1.29e-02 -5.57e-03 2.57e-03 7.52e-03 -4.07e-03 5.41e-03 -3.78e-02  
## 3336 2.10e-03 -9.63e-03 9.76e-03 1.15e-02 -1.41e-03 -9.15e-04 3.69e-02  
## 3337 -5.98e-03 4.07e-04 8.36e-03 -3.06e-03 -1.03e-05 -5.09e-03 3.12e-02  
## 3338 -6.03e-04 1.25e-03 1.89e-03 -6.09e-03 -3.25e-03 2.78e-03 1.03e-02  
## 3339 -1.23e-02 -5.74e-03 7.96e-03 -1.52e-02 -1.52e-02 1.86e-03 -4.21e-02  
## 3340 -1.21e-03 -1.92e-03 -2.42e-03 6.36e-03 -4.59e-03 9.54e-03 2.51e-02  
## 3341 -4.05e-02 1.80e-02 -8.62e-03 4.08e-03 1.68e-02 -2.02e-02 1.01e-01  
## 3342 7.72e-05 1.86e-03 3.88e-04 1.02e-03 -1.25e-05 4.33e-04 3.54e-03  
## 3343 -9.08e-04 5.51e-04 -1.82e-03 8.52e-03 -7.36e-03 1.54e-02 3.92e-02  
## 3344 7.34e-03 1.44e-03 3.21e-03 -3.62e-03 -6.34e-03 1.56e-02 -4.05e-02  
## 3345 -4.95e-03 -8.67e-03 2.04e-02 -1.69e-02 1.57e-02 -2.08e-02 -6.72e-02  
## 3346 -5.82e-03 1.52e-02 2.33e-02 -2.91e-02 1.39e-02 6.48e-03 -9.96e-02  
## 3347 1.38e-02 -5.48e-03 4.19e-03 -1.01e-02 -1.12e-02 9.17e-03 -3.48e-02  
## 3348 -2.94e-02 2.58e-03 -8.77e-03 -1.35e-02 2.08e-02 -1.64e-02 8.16e-02  
## 3349 -3.37e-03 -1.51e-03 2.41e-03 -2.49e-03 1.40e-03 -1.55e-03 1.09e-02  
## 3350 3.81e-04 2.34e-04 2.57e-04 1.33e-05 2.38e-04 2.17e-04 9.12e-04  
## 3351 -6.09e-03 -2.33e-04 -2.41e-02 -2.00e-02 8.89e-03 -1.40e-02 -8.62e-02  
## 3352 4.18e-02 6.84e-03 -2.40e-02 1.36e-03 1.12e-02 -6.95e-04 -9.88e-02  
## 3353 1.02e-03 -5.74e-03 3.93e-03 4.99e-03 -2.67e-04 -1.21e-03 1.63e-02  
## 3354 -2.74e-03 -8.31e-03 -8.71e-03 5.72e-03 -9.57e-03 2.01e-03 2.12e-02  
## 3355 -2.47e-02 1.59e-03 8.13e-03 -3.04e-03 -1.48e-02 1.07e-02 -5.52e-02  
## 3356 -4.75e-03 -6.64e-03 4.13e-03 -1.61e-04 -4.47e-03 -3.34e-04 1.49e-02  
## 3357 -2.44e-04 -3.37e-03 2.39e-02 5.79e-04 1.65e-02 1.31e-03 -8.71e-02  
## 3358 -1.86e-03 3.30e-03 -2.70e-03 -3.29e-03 -4.66e-04 -2.43e-03 1.51e-02  
## 3359 1.13e-02 1.04e-02 6.76e-03 -6.80e-03 -4.72e-03 1.89e-02 -6.34e-02  
## 3360 5.77e-05 3.96e-03 7.48e-04 1.65e-03 -5.71e-04 1.19e-03 6.51e-03  
## 3361 -5.06e-03 1.50e-02 -8.50e-03 7.70e-03 1.37e-02 -3.10e-03 5.84e-02  
## 3362 -1.07e-03 1.39e-03 -1.24e-03 2.11e-03 -1.29e-03 -5.58e-04 5.11e-03  
## 3363 -1.09e-02 7.98e-03 -6.36e-03 8.45e-03 5.62e-03 2.51e-03 4.59e-02  
## 3364 1.15e-03 6.01e-04 -1.23e-02 2.50e-03 -1.70e-02 1.72e-03 6.27e-02  
## 3365 -9.81e-03 -1.19e-02 -4.65e-03 -6.07e-03 -2.30e-03 -6.12e-03 2.97e-02  
## 3366 1.13e-02 3.16e-02 3.98e-02 -2.14e-02 4.69e-02 -2.48e-02 -1.02e-01  
## 3367 -7.25e-03 -1.81e-02 -3.09e-04 -1.31e-02 -9.76e-03 8.27e-03 5.29e-02  
## 3368 -8.45e-03 -8.65e-03 4.42e-03 -1.06e-02 -9.59e-03 3.33e-03 -3.59e-02  
## 3369 3.01e-05 -3.19e-03 -2.56e-02 -2.07e-02 1.35e-02 3.09e-03 -1.05e-01  
## 3370 2.02e-04 5.48e-04 -2.50e-03 4.22e-03 -3.88e-03 8.59e-03 -1.73e-02  
## 3371 -2.89e-03 -5.63e-03 -1.10e-02 4.46e-03 -1.47e-02 1.12e-02 2.94e-02  
## 3372 8.66e-05 -3.79e-04 -1.01e-03 9.80e-05 -5.56e-04 2.87e-03 -6.04e-03  
## 3373 4.14e-03 -1.39e-03 -6.15e-03 -1.15e-02 3.14e-03 -9.53e-05 -2.56e-02  
## 3374 -2.46e-03 -4.94e-03 4.20e-03 3.47e-03 -1.07e-02 8.90e-03 2.11e-02  
## 3375 6.12e-03 -3.68e-03 1.02e-03 -1.11e-03 -3.58e-03 9.02e-03 -2.58e-02  
## 3376 -3.89e-03 -1.47e-03 -3.42e-03 -4.86e-03 -3.96e-03 -1.18e-03 1.51e-02  
## 3377 9.68e-05 1.35e-04 -1.80e-03 7.67e-05 -1.54e-03 5.37e-03 -1.10e-02  
## 3378 -1.15e-02 -6.69e-03 6.95e-03 -2.30e-03 -1.49e-02 3.86e-03 -4.38e-02  
## 3379 -1.72e-02 -1.91e-03 1.18e-02 -2.25e-03 -2.15e-02 5.47e-03 -6.13e-02  
## 3380 8.80e-03 -1.22e-03 2.53e-03 -2.45e-03 -8.04e-03 1.04e-02 -3.33e-02  
## 3381 -3.73e-03 -1.31e-03 -2.00e-03 1.87e-03 -1.76e-03 -3.59e-04 9.42e-03  
## 3382 -2.22e-03 -5.85e-03 4.32e-03 4.00e-03 -9.08e-03 6.78e-03 1.96e-02  
## 3383 1.10e-03 -4.76e-03 -2.11e-03 3.93e-03 -9.27e-04 -9.84e-04 1.12e-02  
## 3384 1.96e-02 1.47e-02 -1.39e-02 1.99e-02 3.32e-02 -2.48e-03 6.20e-02  
## 3385 1.32e-04 6.01e-04 -3.80e-04 1.89e-04 -9.83e-06 7.52e-04 -1.97e-03  
## 3386 -2.48e-03 -5.09e-03 3.86e-03 3.27e-03 -9.85e-03 7.53e-03 1.94e-02  
## 3387 2.33e-03 -3.29e-04 -4.30e-03 7.50e-03 2.04e-03 -1.31e-03 1.91e-02  
## 3388 2.06e-03 8.68e-03 -3.01e-03 -6.01e-03 5.92e-04 1.10e-02 2.59e-02  
## 3389 1.98e-03 6.00e-03 6.45e-03 2.19e-03 -1.82e-05 -2.38e-03 2.54e-02  
## 3390 5.38e-03 -8.42e-03 6.66e-03 -4.84e-03 2.04e-03 1.89e-03 2.12e-02  
## 3391 -1.94e-03 -1.00e-03 6.19e-03 -9.54e-04 2.82e-03 3.77e-03 1.83e-02  
## 3392 1.45e-03 -1.49e-03 2.08e-03 -2.30e-03 3.31e-03 -1.33e-03 -8.32e-03  
## 3393 -4.93e-03 -1.18e-03 -3.78e-03 -1.83e-04 1.64e-03 3.53e-03 2.30e-02  
## 3394 -4.52e-03 9.57e-03 -5.18e-03 -1.62e-03 -5.80e-03 1.81e-05 2.53e-02  
## 3395 2.74e-02 -3.40e-03 3.18e-02 -3.06e-02 1.77e-02 -4.26e-03 7.43e-02  
## 3396 3.39e-05 -3.99e-04 7.34e-04 6.07e-04 -1.01e-05 5.78e-04 -1.93e-03  
## 3397 1.85e-02 -4.92e-03 4.52e-03 -2.21e-03 -1.05e-02 1.53e-02 -4.54e-02  
## 3398 -2.29e-03 -5.14e-03 4.30e-03 -7.78e-03 -1.02e-02 8.21e-03 2.03e-02  
## 3399 6.40e-04 6.76e-04 1.65e-03 -9.31e-04 5.06e-04 -7.12e-05 7.42e-03  
## 3400 6.26e-03 -1.14e-02 -2.99e-03 -4.82e-03 3.62e-03 2.82e-03 2.55e-02  
## 3401 -3.86e-04 -2.13e-04 1.57e-03 2.78e-03 -1.00e-03 -1.55e-04 7.14e-03  
## 3402 -4.63e-05 2.53e-04 -6.04e-04 -4.39e-04 4.33e-06 -8.30e-04 2.19e-03  
## 3403 -3.88e-03 -2.66e-03 -2.80e-02 2.29e-02 9.63e-03 -8.84e-03 -8.58e-02  
## 3404 1.42e-04 3.23e-03 -1.66e-03 3.13e-03 -1.42e-03 3.50e-03 1.23e-02  
## 3405 -1.64e-02 1.42e-05 -2.74e-02 2.30e-02 1.67e-02 -1.28e-02 -8.52e-02  
## 3406 1.20e-02 1.76e-02 4.87e-04 -1.35e-02 1.21e-02 -1.62e-02 -7.44e-02  
## 3407 2.13e-03 1.08e-02 2.34e-03 3.80e-03 3.29e-03 -1.50e-03 1.98e-02  
## 3408 -1.30e-02 -1.24e-02 -6.16e-03 -9.11e-03 9.12e-03 1.75e-03 6.18e-02  
## 3409 1.73e-03 1.73e-03 1.01e-03 2.21e-03 2.24e-03 -1.20e-03 6.73e-03  
## 3410 -5.30e-02 1.33e-03 1.29e-02 -2.45e-02 -1.48e-02 -3.47e-02 -1.18e-01  
## 3411 -2.20e-02 -8.29e-03 -1.15e-02 1.35e-02 -1.07e-02 -6.97e-03 6.23e-02  
## 3412 2.03e-03 -5.30e-03 8.88e-03 -1.37e-02 -1.46e-03 -4.79e-04 3.46e-02  
## 3413 -4.35e-03 -1.49e-02 1.39e-02 5.62e-03 -3.09e-03 4.13e-03 3.57e-02  
## 3414 4.12e-03 2.25e-03 -1.17e-03 3.15e-03 2.33e-03 2.32e-03 9.02e-03  
## 3415 5.84e-03 -8.40e-03 -7.11e-03 -1.54e-02 -1.46e-02 -5.34e-03 4.75e-02  
## 3416 -2.68e-03 -1.48e-03 1.19e-03 1.11e-03 -9.14e-04 -1.88e-03 -6.29e-03  
## 3417 8.35e-05 -6.45e-05 1.62e-04 1.46e-04 6.36e-06 7.98e-05 -7.80e-04  
## 3418 -4.09e-03 3.68e-03 -2.21e-02 -1.95e-02 1.51e-03 -1.08e-02 -9.78e-02  
## 3419 1.05e-02 -1.29e-03 4.29e-03 -1.85e-03 -1.22e-02 1.03e-02 -3.90e-02  
## 3420 1.65e-02 1.69e-02 -9.54e-03 -1.87e-02 2.21e-02 8.03e-03 5.15e-02  
## 3421 -1.26e-02 -9.34e-03 9.15e-03 -8.86e-05 -2.01e-02 3.24e-04 -3.88e-02  
## 3422 -1.81e-02 -5.03e-03 -5.33e-03 8.93e-03 1.05e-02 -1.37e-02 7.60e-02  
## 3423 -3.82e-02 3.00e-02 8.37e-03 2.54e-02 1.02e-02 -7.81e-03 -1.05e-01  
## 3424 3.12e-04 1.46e-03 -8.15e-04 1.61e-03 2.61e-05 1.39e-03 -4.33e-03  
## 3425 -3.79e-03 -5.79e-04 5.34e-03 2.80e-03 5.68e-03 7.57e-04 2.09e-02  
## 3426 7.62e-03 6.47e-03 3.80e-03 -5.97e-03 -5.56e-03 1.16e-02 -4.68e-02  
## 3427 1.38e-03 -1.74e-03 2.25e-03 -2.25e-04 3.92e-03 -2.52e-03 -9.19e-03  
## 3428 -2.50e-03 -8.85e-04 -3.66e-03 5.49e-03 -2.71e-03 4.82e-03 2.56e-02  
## 3429 3.33e-03 7.93e-03 -9.06e-03 7.98e-03 -3.30e-05 2.10e-04 2.81e-02  
## 3430 1.91e-02 1.32e-02 -1.24e-02 -1.86e-02 2.96e-02 5.30e-04 6.05e-02  
## 3431 -9.32e-04 8.78e-04 -5.20e-03 -6.64e-03 -4.53e-03 1.68e-03 1.24e-02  
## 3432 3.39e-03 6.13e-03 -6.20e-03 -2.45e-03 -3.65e-03 8.39e-04 2.90e-02  
## 3433 9.92e-03 1.37e-03 3.04e-03 -4.01e-03 -6.56e-03 9.00e-03 -4.12e-02  
## 3434 -1.98e-03 -4.82e-02 9.93e-03 2.56e-02 2.17e-02 -6.00e-02 -1.27e-01  
## 3435 2.50e-03 -1.07e-03 3.33e-03 -3.96e-04 4.46e-03 -8.65e-04 -1.17e-02  
## 3436 2.27e-03 1.54e-03 -4.95e-03 5.97e-03 -7.26e-05 -2.29e-03 1.75e-02  
## 3437 -7.89e-03 -1.84e-02 -6.08e-03 -7.79e-03 8.24e-03 -1.18e-02 5.90e-02  
## 3438 1.53e-02 2.12e-03 -5.16e-03 -2.51e-03 3.14e-03 -2.55e-03 3.83e-02  
## 3439 5.51e-03 2.15e-03 5.04e-03 8.29e-03 5.01e-03 -1.97e-03 2.84e-02  
## 3440 -5.38e-03 3.13e-03 -4.05e-03 8.58e-03 3.65e-03 -1.26e-03 4.33e-02  
## 3441 -2.71e-03 -2.73e-04 -3.92e-03 5.95e-03 -3.01e-03 5.42e-03 2.77e-02  
## 3442 1.35e-02 1.18e-02 1.65e-02 -4.44e-03 1.71e-02 2.58e-03 4.24e-02  
## 3443 4.67e-02 1.54e-02 -2.79e-02 2.21e-02 5.61e-03 1.25e-03 -1.06e-01  
## 3444 2.06e-02 3.12e-03 -4.76e-03 -1.51e-03 4.55e-03 5.25e-03 3.84e-02  
## 3445 -1.36e-03 4.09e-04 -2.14e-03 8.63e-03 -7.54e-03 1.36e-02 3.61e-02  
## 3446 1.23e-02 3.94e-03 -4.44e-03 -8.49e-03 1.00e-02 8.36e-03 4.12e-02  
## 3447 3.66e-03 6.11e-03 -1.37e-02 1.16e-02 -9.81e-03 1.37e-02 4.55e-02  
## 3448 -5.00e-04 -1.75e-03 -3.26e-03 7.79e-03 -3.79e-03 1.42e-02 3.38e-02  
## 3449 8.30e-03 -8.63e-03 -9.90e-03 1.67e-02 -4.15e-03 -2.75e-03 6.62e-02  
## 3450 8.93e-03 -4.06e-03 3.53e-03 -5.98e-04 -1.21e-02 1.17e-02 -3.38e-02  
## 3451 3.15e-04 -3.23e-04 4.92e-04 -9.54e-04 5.20e-04 -1.65e-04 -2.19e-03  
## 3452 -3.28e-03 -4.60e-03 -1.17e-02 4.74e-03 -1.70e-02 1.21e-02 2.93e-02  
## 3453 1.28e-02 7.25e-03 4.50e-03 2.44e-02 -8.51e-03 1.71e-03 -5.76e-02  
## 3454 3.14e-05 6.46e-03 -5.95e-03 4.59e-03 -2.41e-03 1.97e-04 1.51e-02  
## 3455 -3.15e-03 -1.97e-02 -3.75e-03 -2.74e-03 9.44e-04 3.73e-03 4.72e-02  
## 3456 1.05e-04 -9.68e-04 5.16e-04 3.35e-04 -5.23e-06 -1.90e-04 2.10e-03  
## 3457 1.58e-02 -4.33e-03 4.96e-03 -1.21e-02 -1.19e-02 8.67e-03 -3.91e-02  
## 3458 2.33e-02 -1.16e-02 -6.95e-03 7.58e-03 9.08e-03 -9.59e-04 6.06e-02  
## 3459 -2.11e-02 -7.65e-03 -5.92e-03 -2.09e-02 8.71e-03 -5.06e-04 6.25e-02  
## 3460 3.80e-03 4.50e-03 -1.27e-02 -8.48e-04 -9.38e-03 1.32e-02 4.20e-02  
## 3461 8.12e-05 -1.24e-04 1.60e-03 -2.51e-05 -2.01e-04 2.15e-03 -4.55e-03  
## 3462 7.90e-03 -4.30e-03 1.99e-03 -1.09e-03 -7.88e-03 9.10e-03 -3.35e-02  
## 3463 -2.13e-03 -5.20e-03 3.35e-03 2.96e-03 -8.92e-03 8.14e-03 2.09e-02  
## 3464 -1.91e-02 4.14e-03 -4.52e-03 6.17e-03 1.65e-02 -1.34e-02 8.70e-02  
## 3465 1.76e-03 -2.67e-03 -1.11e-02 -9.07e-03 -5.38e-03 4.75e-03 3.91e-02  
## 3466 -3.51e-04 -5.30e-04 1.42e-03 2.63e-03 -5.95e-04 -7.13e-04 6.51e-03  
## 3467 -5.91e-03 -1.79e-02 2.44e-02 8.96e-03 -6.40e-03 7.17e-03 5.50e-02  
## 3468 7.15e-03 3.09e-02 5.03e-03 2.52e-02 3.90e-03 -1.62e-03 -8.18e-02  
## 3469 7.64e-03 -1.18e-02 -3.65e-03 6.60e-03 9.33e-04 5.82e-03 3.69e-02  
## 3470 -5.40e-04 3.59e-03 2.08e-03 2.70e-03 -4.68e-03 6.63e-03 1.60e-02  
## 3471 -3.44e-03 1.81e-03 -3.46e-03 8.35e-03 -4.00e-03 1.56e-02 4.46e-02  
## 3472 1.80e-02 2.43e-03 -1.01e-02 5.91e-03 1.92e-02 2.72e-04 5.53e-02  
## 3473 -1.48e-02 8.18e-03 -1.04e-02 4.56e-03 -1.36e-02 -8.10e-03 5.07e-02  
## 3474 -6.03e-03 -6.79e-03 1.96e-02 -1.87e-02 1.36e-02 -1.96e-02 -6.75e-02  
## 3475 1.31e-04 -3.84e-04 -2.00e-03 2.49e-04 -2.71e-03 6.75e-03 -1.36e-02  
## 3476 3.56e-03 2.53e-03 1.70e-02 -1.77e-04 -8.43e-03 9.47e-03 5.01e-02  
## 3477 2.72e-03 -2.72e-03 -9.33e-03 -1.85e-02 -8.28e-03 8.62e-03 3.86e-02  
## 3478 1.45e-02 -4.94e-03 2.02e-02 3.86e-03 2.08e-02 -1.06e-02 5.66e-02  
## 3479 -2.07e-02 -1.14e-02 -7.32e-03 8.37e-03 7.00e-03 -2.08e-05 6.65e-02  
## 3480 -1.02e-02 -7.92e-03 7.25e-03 1.11e-02 -1.25e-02 2.80e-03 -3.94e-02  
## 3481 1.30e-02 3.36e-03 1.16e-02 -9.82e-03 6.08e-03 2.63e-03 3.40e-02  
## 3482 1.67e-05 -1.58e-03 -1.37e-03 3.44e-03 -9.97e-04 2.25e-03 -8.75e-03  
## 3483 -3.19e-02 -1.75e-03 1.95e-02 1.49e-02 -1.05e-02 7.29e-04 6.29e-02  
## 3484 -1.02e-02 1.12e-03 -6.84e-03 -3.31e-03 -9.79e-03 -1.20e-02 3.64e-02  
## 3485 -1.07e-02 5.04e-03 2.32e-02 -1.63e-03 1.35e-02 -9.96e-03 -8.95e-02  
## 3486 5.09e-03 -3.20e-04 -3.20e-03 2.38e-03 -2.37e-03 -1.26e-03 1.59e-02  
## 3487 6.31e-03 3.55e-03 1.46e-02 9.92e-03 -2.93e-03 1.44e-02 5.60e-02  
## 3488 3.62e-03 5.14e-03 -1.20e-02 -2.66e-02 -1.11e-02 1.48e-02 4.96e-02  
## 3489 -1.85e-02 -1.17e-03 4.72e-03 2.08e-02 -1.14e-02 6.24e-03 -5.23e-02  
## 3490 -8.27e-03 -9.06e-03 4.52e-03 -8.93e-04 -9.06e-03 3.24e-03 -3.54e-02  
## 3491 1.02e-02 -6.65e-03 1.54e-02 -1.85e-02 1.67e-02 1.18e-03 4.61e-02  
## 3492 1.95e-02 1.72e-02 -1.17e-02 2.35e-03 2.26e-02 1.43e-03 8.17e-02  
## 3493 -2.37e-02 2.26e-02 1.68e-02 -1.31e-02 -2.98e-02 -3.56e-03 -9.46e-02  
## 3494 9.35e-03 1.93e-02 -1.85e-02 -1.47e-02 4.32e-02 -3.79e-02 -8.92e-02  
## 3495 -7.32e-03 2.64e-03 -4.72e-03 8.01e-03 1.64e-03 7.36e-03 3.68e-02  
## 3496 -6.36e-04 -3.11e-04 4.32e-04 -7.06e-04 1.16e-04 9.96e-06 -1.73e-03  
## 3497 -7.40e-03 3.07e-04 -7.63e-03 4.75e-03 -2.68e-03 -4.26e-03 3.87e-02  
## 3498 -1.78e-03 -1.67e-03 -2.12e-03 5.46e-03 -1.23e-03 7.92e-03 2.66e-02  
## 3499 2.15e-04 -6.04e-06 -2.35e-03 4.53e-03 -3.41e-03 7.59e-03 -1.63e-02  
## 3500 8.35e-03 3.44e-03 -1.29e-02 -8.19e-04 -6.28e-03 2.02e-02 5.61e-02  
## 3501 1.68e-02 -5.76e-03 -1.22e-02 5.78e-03 1.60e-02 -1.26e-02 6.75e-02  
## 3502 -2.43e-03 -5.15e-03 4.04e-03 3.40e-03 -9.80e-03 7.63e-03 1.99e-02  
## 3503 2.16e-05 2.60e-04 -1.82e-04 -2.69e-04 -1.23e-04 4.59e-04 1.12e-03  
## 3504 3.64e-03 6.09e-03 -1.37e-02 1.16e-02 -9.86e-03 1.37e-02 4.55e-02  
## 3505 1.95e-02 1.01e-02 -1.14e-02 4.18e-03 2.52e-02 -4.94e-03 6.30e-02  
## 3506 -1.51e-05 2.89e-04 1.93e-04 5.07e-04 5.87e-05 -4.14e-04 1.29e-03  
## 3507 -9.97e-04 -1.99e-03 2.68e-03 -4.06e-03 -2.65e-03 -2.98e-03 1.31e-02  
## 3508 -1.63e-03 -5.54e-03 2.93e-03 -8.98e-03 -6.30e-03 4.62e-03 1.66e-02  
## 3509 6.19e-04 4.31e-03 -3.10e-03 3.51e-03 1.87e-03 4.06e-03 1.61e-02  
## 3510 3.61e-04 -3.48e-03 -8.53e-03 -6.62e-03 -5.85e-03 -1.50e-03 3.22e-02  
## 3511 -4.42e-03 -6.71e-03 2.08e-02 1.99e-03 1.89e-02 -2.24e-02 -6.73e-02  
## 3512 3.99e-03 3.13e-02 1.91e-02 3.27e-02 1.09e-02 -3.94e-02 -1.40e-01  
## 3513 -2.53e-03 -4.63e-03 4.08e-03 3.16e-03 -1.08e-02 9.02e-03 2.11e-02  
## 3514 2.81e-02 -9.98e-03 -3.69e-03 1.00e-02 2.40e-03 7.56e-03 6.96e-02  
## 3515 -2.00e-03 -6.94e-03 3.68e-03 4.39e-03 -6.90e-03 3.03e-03 1.88e-02  
## 3516 -5.78e-04 6.96e-04 -1.45e-03 -1.21e-03 -5.91e-04 7.27e-04 -6.30e-03  
## 3517 -1.14e-04 -2.78e-04 2.89e-04 -3.42e-04 -1.55e-04 -1.87e-04 1.39e-03  
## 3518 -1.30e-04 -1.02e-03 -2.34e-03 -6.79e-05 9.41e-05 -2.34e-03 -6.32e-03  
## 3519 1.56e-02 -4.18e-03 2.95e-03 6.98e-03 -5.42e-03 5.33e-03 -3.94e-02  
## 3520 -3.66e-02 2.02e-02 4.11e-03 -1.52e-02 8.53e-03 -8.02e-03 -8.49e-02  
## 3521 -8.76e-03 -1.45e-03 -2.50e-02 6.01e-04 1.54e-02 -9.74e-03 -9.26e-02  
## 3522 -1.04e-02 -8.00e-03 6.63e-03 2.20e-02 -1.21e-02 2.65e-03 -4.95e-02  
## 3523 1.17e-02 3.06e-02 3.80e-02 -2.21e-02 4.57e-02 -1.74e-02 -9.09e-02  
## 3524 2.25e-02 1.21e-02 -1.31e-02 2.77e-03 2.16e-02 -1.06e-02 9.26e-02  
## 3525 1.36e-02 -1.21e-02 -9.97e-03 1.63e-02 -1.42e-02 -1.02e-02 6.08e-02  
## 3526 -6.56e-04 1.30e-03 1.87e-03 -3.36e-03 -3.24e-03 2.66e-03 9.23e-03  
## 3527 4.04e-02 9.45e-03 1.81e-02 -4.16e-03 2.06e-02 5.85e-04 -8.48e-02  
## 3528 -1.07e-03 5.21e-03 -9.23e-03 4.63e-03 -8.21e-03 6.53e-03 2.01e-02  
## 3529 1.41e-02 3.91e-03 1.58e-02 3.52e-02 -1.86e-02 -2.75e-03 -1.31e-01  
## 3530 4.60e-04 4.63e-03 -2.35e-03 -7.11e-05 9.05e-04 3.87e-03 1.49e-02  
## 3531 1.63e-02 1.53e-02 -1.19e-02 2.36e-02 2.66e-02 -2.11e-02 8.29e-02  
## 3532 3.08e-03 3.76e-03 4.70e-03 6.53e-03 8.96e-04 -9.48e-04 2.26e-02  
## 3533 -1.12e-02 -2.62e-03 -5.31e-03 1.74e-04 -5.00e-03 -5.83e-03 -2.07e-02  
## 3534 -6.15e-03 -4.27e-03 2.06e-02 -1.99e-02 1.41e-02 -1.98e-02 -6.99e-02  
## 3535 -2.51e-04 -1.29e-03 1.72e-03 2.06e-03 -2.98e-04 -3.37e-03 -9.29e-03  
## 3536 7.56e-03 -1.21e-02 9.14e-03 -8.58e-03 7.01e-04 -2.49e-03 3.68e-02  
## 3537 -8.19e-03 1.14e-04 -6.11e-03 -2.76e-03 8.59e-05 -4.74e-03 2.72e-02  
## 3538 1.10e-03 -1.88e-03 -3.17e-03 2.19e-03 -1.26e-03 -3.40e-03 -1.10e-02  
## 3539 -3.31e-02 1.57e-02 -3.30e-02 -9.11e-03 -1.19e-02 1.13e-02 -8.50e-02  
## 3540 -9.13e-03 -1.68e-02 -2.77e-03 1.05e-02 2.40e-04 1.06e-02 5.84e-02  
## 3541 2.62e-03 -1.14e-03 -4.29e-03 -3.91e-03 4.22e-03 -2.52e-03 -1.67e-02  
## 3542 2.30e-03 -1.65e-03 -3.85e-03 -1.14e-04 4.57e-03 -1.24e-03 -1.30e-02  
## 3543 -1.67e-03 -1.56e-03 3.20e-03 -5.85e-05 1.97e-03 2.49e-03 1.08e-02  
## 3544 -5.09e-03 -3.95e-03 6.43e-03 4.82e-03 -1.22e-03 1.30e-03 -2.04e-02  
## 3545 1.08e-02 1.86e-02 6.13e-03 -7.91e-03 -1.38e-02 2.97e-03 -7.30e-02  
## 3546 1.86e-02 -4.40e-03 7.34e-03 -6.67e-04 -1.81e-02 6.69e-03 -5.10e-02  
## 3547 -1.36e-03 3.95e-03 -1.84e-03 -2.40e-03 5.89e-04 4.10e-03 1.19e-02  
## 3548 2.06e-04 -6.95e-04 -1.02e-03 1.82e-03 -1.14e-04 2.39e-03 -6.23e-03  
## 3549 1.85e-02 5.96e-03 -1.26e-02 2.02e-03 3.12e-02 9.21e-04 6.75e-02  
## 3550 -2.12e-02 2.32e-04 5.01e-03 -4.16e-03 -1.10e-02 3.80e-03 -4.58e-02  
## 3551 -6.11e-04 2.41e-03 1.68e-03 2.37e-03 -3.75e-03 4.75e-03 1.27e-02  
## 3552 -1.60e-02 -1.47e-02 -6.92e-03 -1.77e-02 -1.63e-02 -1.11e-02 6.68e-02  
## 3553 -9.64e-03 1.36e-02 2.48e-02 -2.27e-02 1.49e-02 -6.97e-04 6.32e-02  
## 3554 -5.02e-06 1.30e-03 3.45e-04 -6.39e-04 -1.66e-04 1.90e-04 2.39e-03  
## 3555 2.89e-03 2.78e-04 1.22e-02 9.77e-03 -3.68e-03 9.11e-03 3.68e-02  
## 3556 -2.02e-02 1.05e-02 1.00e-02 -7.77e-03 -2.10e-02 4.61e-03 -7.01e-02  
## 3557 1.63e-02 -6.09e-03 2.86e-03 -1.84e-03 -6.13e-03 1.24e-02 -4.25e-02  
## 3558 -2.73e-02 -7.69e-03 -7.28e-03 -8.48e-03 6.72e-03 -7.51e-03 7.82e-02  
## 3559 -6.46e-03 1.35e-03 1.10e-02 -1.07e-03 4.61e-03 7.98e-03 3.00e-02  
## 3560 -3.09e-03 -8.99e-03 1.91e-02 1.64e-03 1.56e-02 -8.91e-03 -7.37e-02  
## 3561 -3.92e-03 -2.49e-03 -2.87e-03 3.07e-03 -5.44e-03 -1.04e-03 1.77e-02  
## 3562 2.61e-02 1.07e-02 9.33e-03 1.13e-02 -2.32e-02 2.12e-02 -8.52e-02  
## 3563 -1.46e-02 -1.28e-02 -4.46e-03 -2.54e-02 1.20e-02 -2.12e-02 7.29e-02  
## 3564 -6.66e-04 1.56e-03 1.97e-03 2.95e-03 -2.79e-03 2.16e-03 1.01e-02  
## 3565 1.15e-04 3.33e-03 5.66e-04 1.40e-03 -3.43e-04 1.28e-03 5.93e-03  
## 3566 -1.89e-02 -1.15e-02 -8.26e-03 5.22e-03 -7.91e-03 -1.66e-03 4.55e-02  
## 3567 -2.35e-02 -5.15e-03 -6.36e-03 7.87e-03 9.98e-03 6.59e-03 7.11e-02  
## 3568 -1.95e-03 -7.76e-03 -5.60e-03 -7.47e-03 -6.38e-03 7.72e-04 1.68e-02  
## 3569 -3.18e-03 -4.58e-03 -1.19e-02 4.91e-03 -1.69e-02 1.22e-02 2.97e-02  
## 3570 -8.78e-03 -1.94e-02 -4.46e-03 6.69e-03 -1.92e-03 -5.91e-03 4.68e-02  
## 3571 -2.20e-05 -1.05e-04 -7.74e-05 -5.58e-05 -2.39e-05 -1.29e-04 2.81e-04  
## 3572 5.10e-02 -1.17e-02 2.61e-02 -4.08e-02 1.02e-02 6.48e-03 -1.26e-01  
## 3573 3.82e-03 -7.49e-03 6.48e-03 7.24e-03 -2.32e-03 -2.86e-03 2.44e-02  
## 3574 1.82e-02 -1.31e-02 -8.21e-03 8.48e-03 1.22e-02 3.06e-03 5.57e-02  
## 3575 2.84e-02 2.17e-02 1.74e-02 -2.29e-02 2.00e-02 1.96e-02 -1.01e-01  
## 3576 -1.00e-02 -2.56e-03 -5.72e-03 5.16e-04 -2.75e-04 1.82e-03 -2.54e-02  
## 3577 3.33e-02 1.07e-02 -1.01e-02 1.86e-03 2.95e-02 -1.21e-02 7.44e-02  
## 3578 -4.31e-03 -2.18e-03 7.61e-03 8.93e-03 1.46e-03 -5.30e-03 2.90e-02  
## 3579 1.50e-02 3.34e-03 -1.41e-02 1.92e-02 2.66e-02 -7.84e-03 7.17e-02  
## 3580 1.91e-02 5.61e-03 1.45e-02 1.47e-02 1.55e-02 -2.66e-03 5.41e-02  
## 3581 -1.90e-02 1.80e-02 -2.29e-02 -2.25e-02 -1.66e-03 -3.12e-03 -1.23e-01  
## 3582 1.01e-02 -3.17e-03 9.18e-04 6.45e-03 -2.46e-03 1.40e-02 -3.89e-02  
## 3583 -3.19e-02 -3.69e-03 -1.12e-02 -1.11e-02 -2.19e-02 -1.12e-02 7.44e-02  
## 3584 -2.05e-02 -1.10e-02 1.33e-02 -1.48e-02 -8.08e-03 1.92e-03 4.58e-02  
## 3585 -4.43e-04 -1.26e-03 -2.28e-03 -2.23e-03 -9.68e-04 -1.72e-03 6.50e-03  
## 3586 -1.42e-02 1.42e-03 1.33e-02 -2.94e-03 -3.20e-02 2.99e-02 -8.34e-02  
## 3587 -5.74e-03 -8.62e-03 1.89e-02 1.52e-03 1.51e-02 -2.14e-02 -6.42e-02  
## 3588 -1.42e-02 -6.84e-03 9.78e-03 -1.55e-02 -2.27e-02 4.95e-04 -4.39e-02  
## 3589 -2.56e-02 -8.41e-04 1.86e-02 -1.94e-04 -3.41e-03 5.81e-03 6.47e-02  
## 3590 -1.10e-02 -9.94e-03 6.03e-03 2.30e-02 -1.23e-02 -1.74e-03 -4.88e-02  
## 3591 -1.15e-03 2.22e-03 -2.58e-02 9.67e-04 7.59e-03 2.94e-03 -9.35e-02  
## 3592 -1.12e-02 -1.44e-02 -5.47e-03 -9.17e-03 1.42e-02 -1.10e-02 7.06e-02  
## 3593 3.65e-03 6.43e-03 1.74e-02 -1.89e-03 -9.05e-03 1.42e-02 5.59e-02  
## 3594 2.89e-03 -6.52e-03 3.34e-03 4.37e-03 -2.11e-03 -2.89e-03 1.35e-02  
## 3595 -2.52e-02 2.55e-02 9.69e-03 -1.70e-02 -6.13e-03 9.94e-04 -1.00e-01  
## 3596 -1.74e-04 -1.15e-03 3.10e-04 -1.47e-04 -1.20e-04 -5.39e-04 1.67e-03  
## 3597 1.85e-03 -8.46e-03 -5.69e-03 -8.46e-03 -7.71e-03 -3.50e-03 2.91e-02  
## 3598 -6.69e-03 -5.36e-03 -2.41e-02 -1.77e-02 5.40e-03 -1.95e-02 -7.20e-02  
## 3599 -9.15e-04 -4.79e-03 1.47e-03 4.67e-04 -1.38e-03 -1.22e-03 7.33e-03  
## 3600 1.59e-03 -6.09e-03 -6.83e-03 3.23e-03 -4.77e-03 9.71e-06 3.00e-02  
## 3601 5.20e-04 -1.14e-03 -3.11e-03 8.84e-03 -1.79e-03 1.55e-02 3.77e-02  
## 3602 2.65e-03 4.58e-03 4.32e-03 5.77e-03 2.16e-03 -8.48e-05 1.99e-02  
## 3603 -2.28e-02 1.46e-02 -3.29e-02 -1.02e-02 -2.60e-02 -8.96e-03 -7.58e-02  
## 3604 -1.87e-03 1.22e-03 -3.32e-03 7.70e-03 -3.22e-03 1.02e-02 3.40e-02  
## 3605 8.01e-03 1.86e-03 2.84e-03 1.72e-02 -5.41e-03 1.45e-02 -4.27e-02  
## 3606 -1.94e-03 1.96e-02 -5.08e-03 -3.23e-03 9.91e-03 2.27e-03 3.95e-02  
## 3607 1.70e-02 5.07e-04 -1.00e-02 5.68e-03 1.76e-02 7.73e-04 5.29e-02  
## 3608 -8.42e-03 5.57e-04 -5.96e-03 -1.21e-02 -6.37e-03 -3.46e-03 5.33e-02  
## 3609 5.11e-04 -2.99e-04 -1.26e-03 1.03e-03 -5.94e-04 8.59e-04 -5.36e-03  
## 3610 1.09e-02 1.10e-02 -2.88e-02 -6.76e-03 -6.75e-03 1.80e-02 -7.17e-02  
## 3611 -3.57e-03 -6.79e-04 4.79e-03 -1.04e-04 1.62e-03 2.96e-03 1.60e-02  
## 3612 1.81e-02 7.21e-03 9.07e-03 -4.02e-03 2.08e-02 1.14e-03 -8.05e-02  
## 3613 1.11e-03 -8.27e-03 6.88e-03 3.30e-03 -2.19e-03 -1.59e-03 2.35e-02  
## 3614 5.06e-03 -1.71e-04 -7.89e-03 6.83e-03 4.88e-03 -2.91e-03 -2.79e-02  
## 3615 1.46e-02 -1.39e-02 -6.75e-03 5.19e-03 -9.61e-03 -7.37e-03 6.04e-02  
## 3616 -1.25e-02 -6.23e-03 1.99e-02 -1.64e-02 9.59e-03 -3.59e-02 -9.28e-02  
## 3617 3.78e-03 -8.17e-04 -6.62e-03 -2.98e-04 6.43e-03 -3.98e-03 -2.04e-02  
## 3618 1.70e-02 -5.53e-03 -6.21e-03 -2.11e-02 1.48e-02 6.78e-03 6.46e-02  
## 3619 -1.08e-02 -1.67e-02 -2.76e-03 -5.79e-04 -5.49e-03 1.05e-02 5.14e-02  
## 3620 1.09e-04 -1.90e-04 -1.97e-03 4.89e-05 -2.77e-03 6.81e-03 -1.33e-02  
## 3621 1.53e-03 -6.60e-03 -5.77e-03 -1.05e-02 -3.71e-03 -3.71e-04 2.96e-02  
## 3622 -6.31e-04 1.79e-03 2.18e-03 3.22e-03 -3.08e-03 2.64e-03 1.10e-02  
## 3623 9.80e-03 -9.60e-03 -1.06e-02 1.11e-02 -7.55e-03 -1.04e-02 4.76e-02  
## 3624 -3.77e-06 1.12e-02 -8.28e-03 4.91e-03 -4.53e-03 2.96e-03 2.21e-02  
## 3625 1.09e-02 2.47e-02 -2.13e-02 6.39e-02 5.01e-02 -4.07e-02 -1.10e-01  
## 3626 -2.04e-03 -6.45e-03 2.02e-02 -3.76e-05 2.26e-02 -1.18e-02 -9.34e-02  
## 3627 2.16e-02 -5.11e-03 -1.07e-02 2.56e-02 1.69e-02 -5.74e-03 7.27e-02  
## 3628 2.07e-02 1.98e-02 -1.14e-02 1.46e-03 2.76e-02 -3.22e-04 7.76e-02  
## 3629 4.64e-06 1.98e-04 3.66e-04 -2.24e-04 -5.53e-05 3.02e-04 1.09e-03  
## 3630 7.30e-05 -1.70e-04 -1.13e-03 -1.64e-03 -8.20e-04 3.51e-03 -7.13e-03  
## 3631 -1.80e-03 -5.68e-03 2.93e-03 -5.21e-03 -6.30e-03 4.55e-03 1.62e-02  
## 3632 1.10e-02 2.87e-02 -1.91e-02 -1.82e-02 4.02e-02 -2.67e-02 -8.78e-02  
## 3633 -2.77e-03 -7.36e-03 -2.80e-02 2.07e-02 1.87e-02 -1.14e-02 -1.01e-01  
## 3634 -1.48e-03 4.02e-03 -3.04e-03 -7.52e-04 -5.76e-03 1.63e-02 4.83e-02  
## 3635 1.90e-02 5.29e-03 4.41e-03 -8.19e-03 -2.81e-03 1.22e-02 -6.31e-02  
## 3636 -1.94e-03 3.81e-03 -2.59e-03 -3.36e-03 -1.95e-03 7.10e-04 1.25e-02  
## 3637 -1.49e-02 -1.03e-02 -2.71e-03 1.05e-02 -5.38e-03 -1.74e-02 7.65e-02  
## 3638 5.74e-05 2.30e-04 -1.56e-04 8.20e-05 2.01e-05 2.82e-04 -7.92e-04  
## 3639 -1.55e-05 1.13e-03 4.45e-04 1.14e-03 -2.94e-05 -3.91e-04 3.63e-03  
## 3640 -2.32e-03 -5.99e-03 3.86e-03 3.82e-03 -8.59e-03 5.61e-03 1.80e-02  
## 3641 1.32e-02 2.91e-03 1.01e-02 4.32e-03 1.63e-02 4.01e-04 3.43e-02  
## 3642 1.86e-02 1.30e-02 -1.10e-02 2.25e-03 2.21e-02 2.29e-03 6.96e-02  
## 3643 -8.65e-03 3.69e-03 -6.94e-03 9.12e-03 8.71e-03 6.81e-03 4.67e-02  
## 3644 1.06e-04 3.73e-05 -1.76e-03 1.29e-04 -1.40e-03 5.12e-03 -1.07e-02  
## 3645 -2.21e-04 1.05e-03 -2.51e-03 3.56e-03 -2.54e-04 -3.79e-03 9.86e-03  
## 3646 -6.11e-06 3.14e-05 -9.15e-05 1.02e-06 3.38e-06 -1.26e-04 3.22e-04  
## 3647 -1.15e-02 -1.07e-02 -2.43e-02 3.71e-03 1.14e-02 -3.61e-02 -9.19e-02  
## 3648 -4.48e-03 8.82e-03 -4.83e-03 -6.73e-03 6.05e-04 -3.88e-03 2.72e-02  
## 3649 -1.71e-02 -1.11e-02 2.25e-02 -6.83e-03 1.58e-02 -1.06e-02 6.34e-02  
## 3650 -1.29e-03 -5.75e-03 2.34e-03 -4.97e-03 -3.41e-03 -2.41e-04 1.15e-02  
## 3651 2.33e-03 7.75e-03 3.68e-03 5.74e-03 1.96e-03 -5.96e-04 1.86e-02  
## 3652 -1.61e-04 2.98e-03 -3.28e-03 -3.22e-03 -1.64e-03 -3.97e-04 8.61e-03  
## 3653 4.47e-03 -6.65e-03 8.86e-03 7.96e-04 -2.88e-03 1.80e-04 3.31e-02  
## 3654 -7.84e-04 -1.72e-03 5.85e-03 -3.31e-04 -8.82e-04 4.55e-03 1.48e-02  
## 3655 1.13e-02 1.45e-02 -1.18e-02 -9.58e-03 -3.56e-04 8.54e-03 5.14e-02  
## 3656 -4.05e-03 3.20e-03 1.60e-02 -3.22e-03 9.16e-03 8.32e-03 4.08e-02  
## 3657 -7.02e-03 1.02e-03 -2.66e-02 8.10e-05 7.74e-03 -2.05e-02 -7.47e-02  
## 3658 -2.01e-02 2.90e-03 -8.59e-03 2.52e-02 2.32e-02 -2.00e-02 7.75e-02  
## 3659 4.27e-03 -1.49e-03 -1.16e-02 1.10e-02 -5.39e-03 4.68e-03 4.26e-02  
## 3660 5.42e-03 3.32e-03 -1.78e-03 2.35e-03 7.61e-04 2.75e-03 1.07e-02  
## 3661 -3.57e-02 2.63e-02 6.63e-03 2.50e-02 -7.03e-03 -1.40e-02 -8.93e-02  
## 3662 -1.95e-03 5.26e-02 -1.03e-02 8.79e-03 2.58e-02 -6.95e-03 9.20e-02  
## 3663 7.85e-03 8.37e-03 -8.23e-03 -1.32e-02 -5.13e-03 1.94e-03 3.90e-02  
## 3664 -8.09e-03 -1.68e-02 -4.72e-03 8.10e-03 -2.76e-03 -4.03e-03 5.04e-02  
## 3665 -1.80e-03 -7.91e-03 3.09e-03 -6.17e-03 -5.15e-03 -6.38e-04 1.53e-02  
## 3666 -1.02e-02 -8.21e-03 6.42e-03 -1.24e-03 -1.41e-02 3.75e-03 -3.55e-02  
## 3667 2.99e-02 -3.16e-03 1.51e-02 3.81e-03 3.05e-02 -7.85e-03 -1.10e-01  
## 3668 1.28e-02 1.38e-02 2.75e-03 -1.00e-02 -1.24e-03 -8.74e-04 -6.18e-02  
## 3669 -6.71e-03 -5.56e-03 -2.49e-02 2.62e-03 7.91e-03 -2.24e-02 -7.10e-02  
## 3670 -2.40e-03 -4.84e-03 4.56e-03 3.63e-03 -1.09e-02 9.52e-03 2.23e-02  
## 3671 2.95e-03 5.04e-04 3.21e-03 1.11e-03 1.46e-04 -2.46e-03 1.25e-02  
## 3672 8.67e-03 -9.85e-04 1.32e-02 9.32e-03 1.14e-04 1.49e-02 5.42e-02  
## 3673 -1.63e-02 -1.34e-02 1.28e-02 2.37e-03 -8.04e-03 -1.48e-02 4.82e-02  
## 3674 1.03e-02 1.39e-02 3.69e-02 -1.41e-02 5.21e-02 -3.68e-02 -9.12e-02  
## 3675 -2.77e-02 1.12e-02 -2.78e-02 -2.03e-02 4.70e-04 -8.04e-03 -1.11e-01  
## 3676 7.33e-03 1.62e-02 2.43e-03 -1.14e-02 7.93e-03 -6.68e-03 -6.21e-02  
## 3677 -1.25e-02 -9.27e-03 9.40e-03 -2.00e-05 -1.96e-02 -1.34e-05 -3.89e-02  
## 3678 -4.85e-03 -3.07e-03 -5.03e-03 5.14e-03 -5.21e-03 2.44e-03 -2.67e-02  
## 3679 1.53e-02 -9.83e-03 -6.62e-03 -4.99e-03 1.24e-02 5.55e-03 4.86e-02  
## 3680 5.98e-03 -1.68e-03 -4.05e-03 -5.19e-03 9.61e-04 -2.84e-03 2.26e-02  
## 3681 -1.31e-02 -4.51e-03 7.56e-03 -1.64e-02 -1.62e-02 1.88e-03 -4.31e-02  
## 3682 1.29e-02 -1.53e-02 -3.37e-02 3.32e-02 -3.54e-02 2.38e-02 -1.04e-01  
## 3683 -7.84e-03 -1.84e-02 2.62e-02 -1.92e-02 1.10e-03 1.67e-03 5.79e-02  
## 3684 -1.07e-02 -1.03e-02 5.95e-03 -7.49e-04 -1.42e-02 1.26e-04 -4.03e-02  
## 3685 2.32e-02 1.63e-02 1.15e-02 1.30e-02 1.96e-02 1.14e-02 -9.14e-02  
## 3686 6.40e-03 3.18e-03 8.91e-03 -8.52e-03 -4.94e-03 5.49e-04 3.04e-02  
## 3687 1.18e-02 -3.50e-03 -1.09e-02 -2.67e-02 -2.14e-02 -9.98e-03 7.98e-02  
## 3688 5.85e-03 2.29e-03 7.26e-03 -8.43e-03 -3.10e-03 2.60e-05 2.75e-02  
## 3689 -4.77e-03 -2.52e-02 2.40e-02 -8.70e-04 -4.63e-03 -4.37e-02 -1.26e-01  
## 3690 -1.54e-02 -1.33e-02 -4.30e-03 9.19e-03 4.96e-03 -9.80e-03 6.51e-02  
## 3691 -7.83e-03 6.53e-03 2.24e-02 -1.92e-03 1.56e-02 -1.06e-02 -9.32e-02  
## 3692 2.04e-02 -1.37e-02 2.05e-02 6.07e-03 1.39e-02 -2.64e-03 5.89e-02  
## 3693 1.15e-02 -1.34e-02 -4.54e-03 7.87e-03 2.26e-03 3.48e-03 3.99e-02  
## 3694 -6.60e-03 5.22e-04 4.72e-03 -5.74e-03 -1.53e-03 -1.87e-03 1.91e-02  
## 3695 1.33e-02 4.24e-02 4.07e-02 2.63e-03 4.38e-02 -1.37e-02 -1.08e-01  
## 3696 1.11e-05 2.99e-03 8.86e-04 3.16e-04 -9.18e-04 5.89e-04 6.63e-03  
## 3697 -1.22e-02 8.12e-05 8.72e-03 -5.83e-03 -1.16e-02 6.70e-03 -6.30e-02  
## 3698 -5.86e-04 2.01e-03 1.65e-03 2.28e-03 -3.03e-03 3.97e-03 1.21e-02  
## 3699 -8.68e-04 6.28e-04 6.69e-04 -1.69e-05 1.03e-03 -1.04e-04 -3.18e-03  
## 3700 -3.69e-03 -2.25e-03 -3.74e-03 -4.58e-04 -3.08e-03 1.08e-03 -1.77e-02  
## 3701 1.91e-02 -1.18e-02 -9.61e-03 2.10e-02 1.46e-02 -8.00e-03 6.52e-02  
## 3702 2.49e-04 1.77e-04 -2.38e-03 4.48e-03 -3.64e-03 8.11e-03 -1.67e-02  
## 3703 1.82e-04 6.70e-03 1.06e-03 2.04e-03 -1.30e-03 3.01e-03 1.04e-02  
## 3704 3.59e-03 4.55e-03 1.71e-02 1.24e-02 -7.59e-03 8.88e-03 5.38e-02  
## 3705 -4.85e-04 1.82e-03 1.67e-03 2.50e-03 -3.01e-03 3.82e-03 1.14e-02  
## 3706 -6.60e-04 -2.34e-04 -3.28e-04 -3.80e-04 -3.63e-04 -1.77e-05 1.54e-03  
## 3707 1.74e-03 -4.72e-04 1.61e-03 8.22e-04 2.20e-04 -5.92e-04 6.40e-03  
## 3708 2.34e-02 1.43e-02 6.31e-03 -1.21e-02 -1.08e-02 -7.56e-03 -8.22e-02  
## 3709 -3.50e-03 -3.72e-03 5.46e-03 3.71e-03 -7.82e-04 1.67e-03 -1.91e-02  
## 3710 -3.26e-02 8.00e-03 -9.29e-03 3.59e-03 1.71e-02 -6.22e-03 8.15e-02  
## 3711 9.57e-03 -1.41e-03 1.84e-03 -3.47e-03 -8.09e-03 1.62e-02 -4.24e-02  
## 3712 3.08e-03 -7.40e-03 8.19e-03 -1.13e-02 -3.03e-03 6.90e-04 2.99e-02  
## 3713 -7.80e-03 -1.87e-02 -3.85e-03 9.43e-03 -2.37e-03 7.09e-03 5.13e-02  
## 3714 -4.37e-04 -9.24e-05 9.64e-04 -1.45e-03 -1.29e-03 3.14e-04 4.44e-03  
## 3715 1.33e-03 -5.20e-03 3.19e-03 -1.31e-03 -1.23e-03 -2.05e-04 1.33e-02  
## 3716 9.63e-03 2.05e-02 -1.86e-02 -1.52e-02 4.32e-02 -3.68e-02 -8.91e-02  
## 3717 2.20e-03 1.32e-03 3.01e-03 -5.47e-03 2.29e-03 -4.19e-04 1.68e-02  
## 3718 -1.62e-03 -6.92e-03 2.97e-03 3.82e-03 -4.77e-03 2.16e-03 1.50e-02  
## 3719 1.73e-04 8.53e-04 -4.43e-04 6.76e-04 1.10e-04 9.35e-04 -2.33e-03  
## 3720 -1.28e-02 -9.28e-03 8.57e-03 -1.31e-02 -2.13e-02 1.32e-03 -3.98e-02  
## 3721 2.16e-02 6.39e-03 6.87e-03 9.87e-03 -1.28e-02 1.18e-02 -6.29e-02  
## 3722 7.08e-03 -3.13e-03 1.87e-03 -1.46e-03 -7.90e-03 1.11e-02 -2.77e-02  
## 3723 1.37e-03 1.53e-03 1.01e-03 1.28e-03 2.59e-03 -1.04e-04 -5.10e-03  
## 3724 5.24e-05 -4.88e-04 1.19e-03 1.63e-04 -2.45e-04 1.28e-03 -3.12e-03  
## 3725 1.01e-02 3.46e-02 4.12e-03 2.96e-03 1.58e-02 -1.48e-02 -8.26e-02  
## 3726 1.84e-02 1.29e-02 -1.32e-02 3.72e-04 2.89e-02 -5.53e-05 5.60e-02  
## 3727 8.83e-03 1.17e-02 -6.84e-03 -8.33e-03 -1.18e-03 -3.46e-03 3.05e-02  
## 3728 2.49e-03 5.11e-03 1.85e-03 -3.95e-03 3.07e-03 8.77e-04 1.34e-02  
## 3729 4.64e-04 4.81e-03 -1.45e-03 -3.47e-03 -2.80e-03 7.02e-03 1.77e-02  
## 3730 3.42e-02 1.20e-02 -9.51e-03 4.19e-03 2.32e-02 -2.14e-02 9.59e-02  
## 3731 -1.14e-03 4.96e-03 -8.16e-03 -1.17e-02 -9.06e-03 7.55e-03 2.18e-02  
## 3732 -4.63e-03 -6.25e-03 1.60e-02 -1.84e-02 1.64e-02 -1.14e-02 -6.73e-02  
## 3733 -1.19e-02 -1.60e-02 1.71e-02 4.26e-03 -4.30e-03 -4.43e-03 5.51e-02  
## 3734 -1.12e-03 8.28e-04 2.93e-03 1.80e-04 -4.59e-03 7.06e-04 1.39e-02  
## 3735 1.98e-02 9.44e-03 -1.33e-02 1.81e-03 3.37e-02 -6.28e-04 6.90e-02  
## 3736 7.88e-04 -1.37e-03 1.50e-03 -1.02e-04 -3.63e-04 -2.79e-03 -7.48e-03  
## 3737 1.91e-02 -1.67e-02 -5.11e-03 7.08e-03 3.57e-03 -8.56e-03 4.73e-02  
## 3738 -3.31e-03 7.58e-03 -2.33e-02 2.98e-03 6.02e-03 -1.37e-02 -9.98e-02  
## 3739 1.31e-02 1.59e-02 1.58e-02 -1.76e-02 2.14e-02 1.44e-03 4.71e-02  
## 3740 1.24e-02 -2.37e-03 3.94e-03 -1.74e-03 -1.21e-02 1.79e-02 -4.68e-02  
## 3741 -1.28e-02 -8.68e-03 9.10e-03 -1.10e-03 -1.88e-02 -1.93e-04 -4.70e-02  
## 3742 1.84e-03 -4.16e-03 -1.11e-02 1.28e-02 -9.81e-03 -4.41e-03 5.63e-02  
## 3743 -3.70e-04 5.65e-04 5.41e-04 -1.42e-04 -1.57e-04 -1.48e-04 1.96e-03  
## 3744 7.02e-03 -3.84e-03 1.23e-03 -9.22e-04 -3.31e-03 9.14e-03 -2.64e-02  
## 3745 -1.45e-02 8.58e-03 -1.06e-02 3.70e-03 -1.11e-02 -1.43e-02 6.09e-02  
## 3746 -2.45e-03 -1.63e-02 -2.73e-03 -7.49e-03 -5.62e-03 6.07e-03 3.15e-02  
## 3747 -1.91e-03 -2.19e-03 2.73e-03 -1.65e-03 -7.99e-04 9.87e-04 -8.62e-03  
## 3748 7.72e-03 -1.16e-03 1.23e-02 8.44e-03 -1.04e-03 1.45e-02 5.16e-02  
## 3749 -2.48e-03 -4.66e-03 4.24e-03 3.26e-03 -1.07e-02 9.09e-03 2.14e-02  
## 3750 -1.10e-02 -7.72e-03 6.68e-03 -1.39e-03 -1.52e-02 3.68e-03 -3.68e-02  
## 3751 -1.15e-02 -1.07e-02 1.85e-02 -1.43e-02 1.15e-02 -3.48e-02 -8.15e-02  
## 3752 -2.53e-03 3.18e-03 2.06e-03 -6.59e-04 8.31e-04 -1.03e-04 9.33e-03  
## 3753 1.13e-03 -5.92e-04 9.76e-03 -1.91e-02 -5.16e-03 6.37e-03 3.81e-02  
## 3754 -1.87e-02 -1.56e-03 5.11e-03 8.78e-03 -9.16e-03 1.29e-02 -4.69e-02  
## 3755 2.01e-02 6.46e-03 -1.36e-02 -1.67e-02 2.31e-02 -7.14e-03 6.86e-02  
## 3756 9.23e-04 -8.49e-04 9.32e-04 -1.19e-04 1.60e-03 -3.30e-04 -4.27e-03  
## 3757 2.69e-03 -7.46e-04 -1.15e-02 2.01e-03 -1.36e-02 7.50e-03 4.64e-02  
## 3758 -1.85e-02 -5.32e-03 5.86e-03 -1.31e-03 -1.59e-02 7.02e-03 -4.72e-02  
## 3759 -1.30e-03 4.11e-03 3.96e-03 -8.59e-04 -7.79e-03 4.64e-03 2.09e-02  
## 3760 -3.45e-03 -6.95e-03 6.45e-03 5.60e-03 -1.50e-02 7.61e-03 3.13e-02  
## 3761 -5.86e-03 -2.68e-03 2.09e-02 -3.87e-04 2.08e-02 -8.16e-04 -9.51e-02  
## 3762 3.13e-04 9.39e-04 -7.05e-04 2.38e-05 -2.93e-04 2.32e-03 4.52e-03  
## 3763 1.05e-02 -1.22e-02 -4.43e-03 -1.38e-03 4.18e-03 3.93e-03 4.06e-02  
## 3764 -2.40e-03 -1.21e-02 -6.87e-03 2.18e-03 -7.43e-03 -3.40e-03 2.25e-02  
## 3765 5.13e-05 -1.26e-03 -1.30e-03 2.65e-03 -8.95e-04 2.76e-03 -8.22e-03  
## 3766 -1.74e-02 -6.40e-03 6.05e-03 -1.89e-04 -1.51e-02 6.82e-03 -4.05e-02  
## 3767 1.22e-02 -1.48e-03 6.00e-03 -1.49e-03 -1.48e-02 2.04e-02 -5.54e-02  
## 3768 -1.35e-02 -7.96e-03 -2.34e-02 -1.52e-02 3.67e-03 -3.68e-02 -8.89e-02  
## 3769 -9.42e-03 4.65e-04 -4.97e-03 6.61e-03 -1.36e-02 -1.78e-03 4.00e-02  
## 3770 9.18e-03 1.38e-02 3.08e-03 -9.21e-03 8.78e-03 -4.32e-03 -6.06e-02  
## 3771 9.98e-03 5.07e-03 -7.01e-03 1.27e-02 -1.29e-03 1.27e-03 3.79e-02  
## 3772 6.75e-05 -1.69e-03 -1.10e-03 3.08e-03 -5.35e-04 1.48e-03 -7.27e-03  
## 3773 2.70e-03 2.43e-03 1.66e-02 -2.60e-02 -1.05e-02 1.04e-02 5.45e-02  
## 3774 -5.68e-02 -2.06e-02 -4.13e-02 -4.27e-04 2.77e-02 6.58e-03 -1.82e-01  
## 3775 -8.96e-04 -9.35e-04 1.01e-03 8.71e-05 -3.50e-04 -2.58e-05 -3.60e-03  
## 3776 -5.26e-04 -1.06e-04 1.32e-03 2.37e-03 -1.19e-03 -1.44e-04 6.45e-03  
## 3777 3.09e-02 5.56e-04 -9.10e-03 4.74e-03 2.10e-02 -1.13e-02 8.51e-02  
## 3778 -3.32e-03 -1.77e-02 -1.83e-03 8.93e-03 -8.40e-03 1.18e-02 4.10e-02  
## 3779 7.58e-03 8.53e-03 2.15e-03 -7.48e-03 1.53e-03 3.81e-03 -5.05e-02  
## 3780 1.36e-02 -2.25e-03 3.94e-03 -3.23e-03 -5.22e-03 1.08e-02 -4.46e-02  
## 3781 1.64e-02 -6.06e-03 -8.59e-03 -2.42e-02 1.74e-02 2.20e-03 6.10e-02  
## 3782 -3.43e-03 -1.67e-02 -2.61e-03 6.48e-03 3.38e-04 1.18e-02 4.47e-02  
## 3783 -7.61e-04 -3.88e-02 -4.44e-02 3.87e-02 -2.58e-02 -2.24e-02 -1.44e-01  
## 3784 -2.28e-03 -5.87e-03 3.84e-03 3.67e-03 -8.32e-03 5.49e-03 1.79e-02  
## 3785 6.09e-03 -2.86e-02 -1.60e-02 4.04e-02 4.18e-02 -4.82e-02 -1.06e-01  
## 3786 1.76e-02 9.48e-03 -1.26e-02 1.23e-03 2.61e-02 1.52e-03 5.26e-02  
## 3787 9.89e-03 2.34e-03 2.34e-03 -5.08e-03 -6.87e-03 2.58e-03 -4.96e-02  
## 3788 -2.21e-03 -6.10e-03 4.13e-03 4.02e-03 -8.52e-03 5.83e-03 1.86e-02  
## 3789 4.11e-03 -8.42e-04 -1.18e-02 1.28e-02 -9.34e-03 -2.25e-03 5.42e-02  
## 3790 3.20e-02 4.39e-03 -9.12e-03 3.45e-03 2.76e-02 -9.03e-03 6.87e-02  
## 3791 -4.31e-03 1.42e-03 1.72e-02 -3.92e-03 1.99e-02 -1.00e-02 -7.11e-02  
## 3792 -8.44e-03 7.09e-04 -6.58e-03 4.92e-03 -1.05e-02 -9.59e-04 3.24e-02  
## 3793 -8.48e-03 -1.90e-02 -3.56e-03 8.55e-03 2.38e-03 1.78e-03 5.77e-02  
## 3794 -1.32e-02 5.05e-02 -3.17e-02 1.41e-02 1.68e-02 1.91e-02 -1.29e-01  
## 3795 1.48e-03 8.16e-04 -7.67e-04 3.50e-05 1.03e-03 7.17e-04 3.98e-03  
## 3796 -1.42e-02 2.09e-03 6.04e-03 -6.29e-03 -1.32e-02 1.46e-02 -7.08e-02  
## 3797 -2.49e-03 -4.66e-03 4.22e-03 3.25e-03 -1.07e-02 9.09e-03 2.14e-02  
## 3798 -6.41e-02 -4.89e-02 1.70e-02 -2.61e-02 -2.56e-02 -2.06e-02 -1.33e-01  
## 3799 1.46e-02 4.25e-03 2.84e-02 2.96e-03 2.66e-02 -1.37e-02 6.82e-02  
## 3800 -1.07e-02 -1.05e-02 6.08e-03 -3.99e-04 -1.48e-02 6.39e-04 -4.04e-02  
## 3801 1.46e-02 4.65e-03 -8.41e-03 5.10e-03 1.55e-02 -3.59e-03 6.68e-02  
## 3802 1.04e-02 7.41e-03 3.85e-03 -6.63e-03 -3.06e-03 1.78e-02 -5.51e-02  
## 3803 -2.07e-03 -5.59e-03 3.37e-03 3.25e-03 -8.61e-03 7.51e-03 2.02e-02  
## 3804 -9.87e-06 -3.39e-05 2.72e-05 -1.97e-05 -3.32e-06 -4.23e-05 1.28e-04  
## 3805 3.01e-03 4.82e-04 1.16e-02 -1.52e-03 -3.89e-03 1.18e-02 4.06e-02  
## 3806 1.89e-03 -3.37e-03 -1.14e-02 9.12e-03 -4.68e-03 -8.78e-04 3.80e-02  
## 3807 -1.07e-03 2.42e-03 -6.44e-03 -8.71e-03 -6.37e-03 3.94e-03 1.59e-02  
## 3808 6.46e-04 7.75e-03 -2.88e-03 4.85e-03 2.87e-04 8.85e-03 2.18e-02  
## 3809 2.67e-03 -1.44e-03 3.25e-03 -3.48e-04 5.33e-03 -8.45e-04 -1.23e-02  
## 3810 -1.06e-02 -7.58e-03 6.83e-03 -1.54e-03 -1.39e-02 3.36e-03 -3.65e-02  
## 3811 -5.07e-03 5.31e-03 -3.18e-03 -3.44e-03 -3.32e-03 -2.05e-04 1.66e-02  
## 3812 -1.44e-05 -8.20e-04 -5.28e-04 -1.52e-03 -6.16e-04 1.23e-03 -3.66e-03  
## 3813 -8.24e-04 6.33e-03 -2.60e-03 -3.25e-04 8.54e-04 3.98e-03 1.77e-02  
## 3814 4.22e-03 2.24e-03 -6.38e-03 -7.82e-03 3.65e-03 -1.08e-03 2.80e-02  
## 3815 -1.92e-03 -1.16e-02 -1.21e-03 -8.78e-06 -7.53e-03 5.91e-03 2.16e-02  
## 3816 -8.25e-03 -8.88e-03 4.57e-03 -1.17e-03 -8.22e-03 2.62e-03 -3.57e-02  
## 3817 3.30e-02 -4.80e-04 -1.04e-02 2.69e-02 2.29e-02 -4.05e-02 1.07e-01  
## 3818 8.80e-03 -1.97e-03 -6.37e-03 5.48e-03 4.96e-03 -8.91e-04 -2.62e-02  
## 3819 -3.27e-02 3.14e-03 -1.33e-02 1.41e-02 -1.24e-02 6.03e-03 5.88e-02  
## 3820 -1.27e-05 -1.22e-03 -8.69e-04 -2.89e-03 -1.17e-03 2.11e-03 -6.59e-03  
## 3821 -6.88e-04 5.26e-03 2.75e-03 3.06e-03 -5.98e-03 7.67e-03 1.74e-02  
## 3822 1.39e-04 -8.39e-04 -1.92e-03 3.39e-03 -1.72e-03 5.12e-03 -1.25e-02  
## 3823 1.25e-02 1.08e-02 8.32e-04 -1.03e-02 6.27e-03 -2.67e-03 -6.15e-02  
## 3824 9.68e-03 -2.95e-03 2.13e-03 -2.07e-03 -7.63e-03 1.78e-02 -4.10e-02  
## 3825 2.22e-02 -2.43e-02 1.01e-02 -8.12e-03 -1.38e-02 7.91e-03 -7.75e-02  
## 3826 -6.73e-03 -1.37e-03 -3.31e-03 -8.94e-04 -7.77e-03 -1.16e-03 2.31e-02  
## 3827 -2.19e-02 -9.56e-03 2.26e-02 -2.65e-02 -1.85e-02 -1.06e-02 7.15e-02  
## 3828 3.88e-02 1.43e-02 2.62e-02 3.47e-02 2.53e-02 -6.76e-03 -1.43e-01  
## 3829 -3.41e-04 -7.14e-05 1.15e-03 2.16e-03 -1.20e-03 8.22e-04 6.42e-03  
## 3830 -3.90e-04 4.32e-04 -5.29e-04 4.22e-04 1.42e-04 9.90e-05 -2.16e-03  
## 3831 7.67e-03 -1.99e-02 7.59e-03 -4.15e-03 -2.47e-02 3.60e-02 -7.21e-02  
## 3832 -1.22e-02 -1.17e-02 -4.71e-03 -2.87e-02 3.54e-03 -1.14e-02 7.14e-02  
## 3833 -1.73e-03 -6.74e-03 3.04e-03 3.73e-03 -5.45e-03 3.02e-03 1.58e-02  
## 3834 -2.23e-05 2.44e-04 3.05e-04 -5.30e-05 -5.40e-05 -5.56e-04 1.71e-03  
## 3835 1.50e-02 8.66e-03 1.86e-03 -8.54e-03 6.46e-03 5.80e-03 -5.85e-02  
## 3836 -1.44e-02 -1.13e-02 3.52e-02 -9.64e-03 1.38e-02 -7.89e-03 7.36e-02  
## 3837 -1.26e-02 -9.31e-03 -2.02e-02 -1.30e-02 -2.17e-02 1.90e-03 -5.55e-02  
## 3838 2.86e-02 2.65e-03 2.31e-02 1.02e-02 3.35e-02 1.45e-02 -1.06e-01  
## 3839 -1.59e-02 -4.82e-03 1.07e-02 -1.36e-03 -1.96e-02 6.95e-03 -5.14e-02  
## 3840 3.75e-03 -2.11e-04 -1.18e-02 5.96e-04 -7.47e-03 1.22e-02 4.38e-02  
## 3841 -3.02e-03 -6.31e-03 -9.32e-03 -8.19e-03 -1.35e-02 7.29e-03 2.38e-02  
## 3842 1.76e-03 2.22e-03 1.29e-02 9.77e-03 -4.61e-03 4.53e-03 4.21e-02  
## 3843 3.43e-03 -4.69e-02 1.69e-02 2.76e-02 -2.47e-03 -1.83e-02 -1.12e-01  
## 3844 4.57e-04 -5.02e-04 5.31e-04 8.27e-05 3.85e-04 3.24e-04 -1.99e-03  
## 3845 -4.86e-06 4.45e-04 -7.00e-04 6.26e-04 4.63e-05 -3.45e-04 1.57e-03  
## 3846 -3.29e-03 -4.40e-03 -1.01e-02 -1.69e-02 -1.70e-02 1.21e-02 3.08e-02  
## 3847 1.14e-02 -1.18e-02 1.82e-02 -1.49e-02 1.15e-02 4.44e-03 4.49e-02  
## 3848 -6.77e-03 -1.71e-02 -2.64e-03 -1.07e-02 -4.03e-03 5.30e-04 4.06e-02  
## 3849 1.44e-03 -3.54e-03 2.08e-03 -4.38e-04 -6.63e-04 -6.40e-04 7.53e-03  
## 3850 -1.19e-03 -1.73e-02 -1.67e-03 7.30e-03 -6.02e-03 1.03e-02 3.71e-02  
## 3851 -2.26e-03 -5.02e-03 4.04e-03 -1.25e-02 -9.67e-03 7.44e-03 2.12e-02  
## 3852 -1.81e-03 -8.86e-04 -1.47e-03 -2.15e-03 -2.02e-03 -7.38e-04 6.68e-03  
## 3853 1.99e-02 3.97e-03 -4.07e-03 -1.07e-02 1.84e-03 6.22e-03 3.91e-02  
## 3854 7.06e-03 -3.60e-03 -1.09e-02 -1.03e-02 -2.64e-03 1.44e-02 5.41e-02  
## 3855 -1.49e-03 2.75e-02 -8.38e-03 6.11e-03 2.05e-02 -1.28e-02 6.03e-02  
## 3856 3.10e-05 -1.19e-04 -1.22e-03 -3.83e-03 -1.42e-03 4.10e-03 -8.80e-03  
## 3857 -1.80e-02 -7.50e-03 -6.49e-03 8.20e-03 5.77e-03 -3.51e-02 8.74e-02  
## 3858 1.29e-02 6.94e-03 2.64e-03 -7.18e-03 -4.14e-03 9.14e-03 -5.12e-02  
## 3859 -3.44e-03 -6.71e-03 5.22e-03 4.34e-03 -1.42e-02 9.04e-03 3.29e-02  
## 3860 1.52e-04 6.55e-03 1.52e-03 3.32e-03 -1.55e-03 1.67e-03 1.34e-02  
## 3861 -8.70e-03 2.21e-02 -8.04e-03 -4.22e-03 -5.54e-03 -3.75e-03 4.42e-02  
## 3862 -1.71e-02 4.88e-03 1.14e-02 3.06e-02 -2.26e-02 1.16e-03 -7.77e-02  
## 3863 -6.70e-03 7.87e-03 -4.25e-03 9.03e-03 2.00e-03 5.14e-03 4.54e-02  
## 3864 -3.92e-03 -4.17e-03 -4.18e-03 5.01e-03 -9.68e-04 -3.88e-03 2.52e-02  
## 3865 6.75e-03 -1.25e-03 2.36e-03 1.46e-02 -6.92e-03 1.57e-02 -3.73e-02  
## 3866 -9.29e-03 -1.57e-02 3.02e-02 4.30e-03 3.34e-02 -3.36e-02 8.91e-02  
## 3867 -8.48e-04 -8.96e-04 -6.72e-04 9.54e-04 -1.31e-03 4.31e-04 -4.05e-03  
## 3868 3.05e-03 1.27e-03 -1.17e-02 4.07e-04 -1.00e-02 1.18e-02 3.92e-02  
## 3869 5.10e-03 -6.96e-03 6.77e-03 -1.44e-02 -4.61e-03 7.85e-03 -8.73e-02  
## 3870 -1.84e-02 -3.61e-03 -4.16e-03 7.07e-03 7.39e-03 -1.54e-02 7.06e-02  
## 3871 1.94e-02 -1.50e-02 2.17e-02 -6.98e-03 3.69e-03 7.91e-03 -1.08e-01  
## 3872 -1.20e-04 -5.17e-04 4.59e-04 6.40e-04 2.14e-04 -1.30e-03 -2.66e-03  
## 3873 -6.39e-03 -5.77e-03 -2.47e-02 3.38e-03 7.90e-03 -2.20e-02 -7.06e-02  
## 3874 -1.05e-02 2.72e-03 -8.23e-03 -5.08e-03 -9.09e-03 -7.03e-03 4.43e-02  
## 3875 -4.52e-03 -3.82e-03 -5.76e-03 5.07e-03 -6.61e-04 9.41e-04 -2.50e-02  
## 3876 3.08e-03 3.80e-03 -1.21e-02 -1.31e-02 -1.11e-02 1.37e-02 4.27e-02  
## 3877 1.49e-02 1.68e-03 -1.25e-02 4.70e-03 2.09e-02 -9.58e-03 6.66e-02  
## 3878 2.98e-02 -9.12e-03 -7.34e-03 7.34e-03 1.54e-02 -1.43e-02 8.04e-02  
## 3879 1.96e-02 1.41e-02 -1.22e-02 2.91e-03 2.64e-02 -6.59e-03 6.68e-02  
## 3880 -2.49e-03 -1.96e-04 -1.58e-03 -6.19e-03 -5.84e-03 1.27e-02 3.07e-02  
## 3881 -1.55e-02 -2.93e-03 -2.67e-02 -2.10e-03 -3.16e-02 8.87e-03 -6.44e-02  
## 3882 1.98e-02 -4.60e-03 -2.15e-02 1.25e-02 -2.23e-02 7.56e-03 -5.20e-02  
## 3883 -7.05e-04 1.74e-03 1.83e-03 -3.74e-03 -3.62e-03 3.29e-03 9.87e-03  
## 3884 -1.55e-03 1.95e-02 1.12e-02 -2.96e-02 2.43e-02 -5.75e-02 -1.24e-01  
## 3885 1.99e-03 1.48e-03 4.40e-03 -1.51e-03 -1.08e-04 2.53e-04 1.72e-02  
## 3886 -1.93e-03 -6.27e-03 3.42e-03 -4.94e-03 -6.54e-03 3.12e-03 1.45e-02  
## 3887 2.42e-03 6.23e-03 -1.13e-02 1.45e-02 -1.37e-02 5.74e-03 6.14e-02  
## 3888 2.12e-04 6.75e-04 1.04e-03 1.37e-03 3.30e-04 1.00e-03 3.17e-03  
## 3889 1.36e-04 -8.72e-04 -1.02e-03 2.17e-03 -3.29e-05 1.86e-03 -6.28e-03  
## 3890 -1.91e-04 -6.22e-04 6.35e-04 1.37e-03 -1.29e-04 -5.47e-04 3.36e-03  
## 3891 -9.36e-05 -3.26e-04 3.07e-04 -4.34e-04 1.01e-04 -8.30e-04 -1.73e-03  
## 3892 -5.22e-04 -1.46e-03 1.55e-03 -9.07e-04 -1.07e-03 -1.90e-03 6.80e-03  
## 3893 -8.03e-03 -1.81e-02 -3.16e-03 9.85e-03 -1.15e-02 1.79e-03 5.19e-02  
## 3894 -2.17e-04 -5.44e-04 6.58e-04 1.40e-03 -3.04e-04 -3.32e-04 3.52e-03  
## 3895 8.71e-04 4.57e-03 -1.69e-03 -3.39e-03 -7.95e-04 6.22e-03 1.44e-02  
## 3896 6.05e-03 1.46e-03 1.16e-02 8.91e-03 -1.26e-03 1.47e-02 5.24e-02  
## 3897 9.25e-03 -1.12e-02 -4.26e-03 1.27e-02 8.60e-03 1.51e-03 3.68e-02  
## 3898 -1.19e-03 -6.44e-03 2.10e-03 3.33e-03 -1.79e-03 -1.47e-03 1.08e-02  
## 3899 -2.29e-02 -2.85e-03 -2.63e-02 2.16e-02 9.12e-03 -2.51e-02 -9.13e-02  
## 3900 -2.03e-02 -4.32e-03 -2.18e-02 -6.45e-04 -2.15e-02 7.89e-03 -5.66e-02  
## 3901 2.77e-02 -1.33e-02 2.27e-02 1.83e-02 2.39e-02 -1.59e-02 6.89e-02  
## 3902 1.49e-04 7.14e-03 -2.52e-03 -4.81e-03 -1.81e-03 4.98e-03 2.09e-02  
## 3903 3.39e-05 4.80e-03 8.35e-04 -2.33e-03 -1.43e-03 2.52e-03 7.82e-03  
## 3904 9.11e-03 2.25e-02 3.87e-03 -1.31e-02 6.67e-03 -6.01e-03 -6.93e-02  
## 3905 -4.22e-03 1.66e-02 -2.67e-02 -3.07e-03 6.02e-03 -5.76e-03 -9.17e-02  
## 3906 6.96e-05 9.98e-04 1.58e-03 -8.71e-05 6.90e-04 8.14e-04 4.25e-03  
## 3907 1.12e-04 -2.45e-04 -1.51e-03 2.73e-05 -7.86e-04 4.23e-03 -9.06e-03  
## 3908 -3.16e-04 -6.04e-04 9.08e-04 1.79e-03 -3.41e-04 -8.36e-04 4.46e-03  
## 3909 8.92e-03 2.19e-04 -4.80e-03 -2.61e-04 7.76e-03 2.37e-03 2.56e-02  
## 3910 1.73e-02 5.22e-03 2.41e-02 1.70e-02 3.61e-02 -1.48e-03 6.64e-02  
## 3911 -1.22e-02 -9.44e-03 -2.13e-02 4.14e-04 -2.02e-02 -7.54e-05 -5.16e-02  
## 3912 1.15e-02 5.66e-03 5.69e-03 -4.29e-03 -1.47e-02 6.86e-03 -5.35e-02  
## 3913 9.69e-03 -2.03e-03 2.29e-03 1.64e-02 -5.50e-03 1.07e-02 -3.70e-02  
## 3914 5.51e-03 3.56e-03 -2.13e-03 2.28e-04 3.19e-03 3.49e-03 1.32e-02  
## 3915 2.47e-03 -8.00e-03 9.02e-03 1.11e-02 -4.21e-03 -7.64e-03 3.91e-02  
## 3916 -7.64e-03 -2.00e-02 -5.83e-04 -7.22e-04 -9.15e-03 1.57e-02 5.85e-02  
## 3917 1.64e-02 -6.49e-03 6.23e-03 -1.13e-02 -1.70e-02 8.09e-03 -4.05e-02  
## 3918 2.32e-02 -1.28e-02 1.36e-02 -3.67e-02 -1.89e-02 -1.55e-02 -9.36e-02  
## 3919 -1.10e-02 1.56e-03 8.12e-03 9.79e-03 -1.25e-03 -3.16e-03 3.04e-02  
## 3920 7.69e-03 -2.51e-03 1.28e-02 1.08e-02 -1.10e-03 3.58e-03 5.30e-02  
## 3921 1.05e-02 1.76e-02 3.62e-02 3.35e-02 5.61e-02 -3.70e-02 -1.09e-01  
## 3922 -1.19e-02 -7.74e-03 -7.07e-03 -1.18e-02 1.51e-02 -1.70e-02 7.76e-02  
## 3923 2.23e-03 8.11e-04 -4.20e-03 -5.04e-03 4.10e-04 1.05e-03 1.73e-02  
## 3924 -1.18e-04 -3.45e-03 -2.24e-03 3.44e-03 -8.82e-04 4.81e-03 1.52e-02  
## 3925 -1.60e-02 -9.34e-03 -6.80e-03 1.02e-02 -5.26e-03 -6.70e-03 3.59e-02  
## 3926 -1.04e-02 -6.38e-03 5.48e-03 -1.88e-03 -7.59e-03 7.79e-03 -4.40e-02  
## 3927 -2.20e-03 -5.48e-03 3.66e-03 -6.49e-03 -8.45e-03 5.68e-03 1.71e-02  
## 3928 4.08e-03 5.27e-03 4.85e-03 5.76e-03 4.38e-03 3.36e-04 2.97e-02  
## 3929 1.10e-04 -2.88e-04 -1.87e-03 9.13e-05 -2.63e-03 6.45e-03 -1.26e-02  
## 3930 -1.95e-02 -9.62e-03 -9.71e-03 -1.65e-02 -9.55e-03 -8.20e-03 4.52e-02  
## 3931 -3.14e-03 -5.30e-03 -1.03e-02 -9.62e-03 -1.60e-02 1.07e-02 2.75e-02  
## 3932 2.10e-03 -1.50e-04 1.03e-02 9.14e-03 -1.84e-03 4.49e-03 3.73e-02  
## 3933 2.16e-02 -2.24e-03 -2.16e-02 -8.38e-06 -2.53e-02 7.66e-03 -6.18e-02  
## 3934 7.11e-03 -2.03e-03 -1.06e-02 -2.24e-02 -4.92e-03 1.40e-02 5.38e-02  
## 3935 -2.59e-03 -6.17e-03 -8.56e-03 -1.33e-02 -1.24e-02 8.34e-03 2.62e-02  
## 3936 -4.12e-03 -8.02e-03 2.09e-02 2.70e-03 2.00e-02 -2.37e-02 -6.75e-02  
## 3937 2.68e-03 5.55e-03 1.62e-02 -2.03e-03 -1.11e-02 1.46e-02 5.40e-02  
## 3938 -5.01e-04 2.04e-03 1.85e-03 2.76e-03 -3.31e-03 4.19e-03 1.24e-02  
## 3939 -1.43e-02 1.08e-02 -2.40e-02 -2.08e-02 -3.60e-04 -1.85e-02 -1.16e-01  
## 3940 2.45e-02 2.59e-02 -2.68e-02 -2.26e-02 8.00e-03 1.96e-02 -1.12e-01  
## 3941 3.26e-03 -3.61e-03 9.05e-03 -8.72e-03 -3.68e-03 4.22e-04 3.73e-02  
## 3942 -2.68e-03 -7.03e-05 1.29e-02 -9.40e-03 7.49e-03 9.05e-03 3.61e-02  
## 3943 2.23e-03 -6.59e-03 1.05e-02 1.13e-02 -8.59e-04 -6.13e-04 4.32e-02  
## 3944 1.05e-02 1.39e-02 1.29e-03 -1.07e-02 5.06e-03 -1.23e-02 -6.65e-02  
## 3945 -8.06e-03 -2.20e-03 -5.00e-03 -9.89e-03 2.29e-03 9.96e-04 -2.28e-02  
## 3946 4.23e-04 2.53e-03 -1.20e-03 8.91e-05 -7.71e-04 4.14e-03 9.51e-03  
## 3947 -1.62e-02 -4.06e-03 -2.23e-02 -1.83e-03 -2.06e-02 6.21e-03 -6.29e-02  
## 3948 -2.21e-02 2.44e-03 -3.59e-03 8.62e-03 6.77e-03 -2.02e-02 9.20e-02  
## 3949 -1.76e-02 -1.11e-02 -8.62e-03 4.97e-03 -9.02e-03 1.33e-03 6.95e-02  
## 3950 8.18e-03 -1.59e-04 2.51e-03 -3.23e-03 -7.54e-03 2.30e-02 -4.47e-02  
## 3951 1.87e-03 1.30e-02 1.21e-02 6.75e-03 6.93e-03 1.00e-02 3.47e-02  
## 3952 -1.42e-02 -2.28e-03 8.07e-03 2.50e-02 -1.17e-02 -3.08e-03 -5.72e-02  
## 3953 -6.36e-03 -7.45e-04 -3.59e-03 -4.53e-03 -2.34e-03 8.65e-04 1.96e-02  
## 3954 1.22e-02 -3.13e-03 1.57e-02 -5.92e-04 -1.02e-02 4.97e-04 5.44e-02  
## 3955 6.63e-03 3.74e-03 -1.21e-02 1.27e-02 -6.72e-03 1.29e-02 5.94e-02  
## 3956 1.41e-02 -4.97e-03 2.99e-03 -2.44e-03 -5.36e-03 5.75e-03 -3.78e-02  
## 3957 1.27e-04 -6.65e-04 -1.96e-03 4.13e-04 -2.35e-03 5.77e-03 -1.28e-02  
## 3958 1.05e-04 2.44e-04 5.06e-04 -4.23e-06 2.11e-04 5.96e-04 1.57e-03  
## 3959 -3.02e-03 8.59e-03 -3.05e-03 1.10e-02 -4.89e-03 9.44e-03 4.97e-02  
## 3960 5.98e-05 -4.37e-04 3.41e-04 6.60e-06 9.07e-05 -9.52e-04 -2.15e-03  
## 3961 -4.40e-04 -4.29e-04 1.37e-03 2.64e-03 -1.04e-03 -5.07e-04 7.35e-03  
## 3962 1.42e-04 -3.43e-05 -2.28e-03 3.36e-03 -2.87e-03 7.42e-03 -1.52e-02  
## 3963 1.77e-02 8.97e-03 -1.33e-02 -1.77e-02 2.85e-02 1.27e-03 6.79e-02  
## 3964 -4.16e-04 -1.12e-04 2.16e-04 -9.32e-05 -4.05e-06 -2.40e-05 9.55e-04  
## 3965 4.77e-04 -5.98e-02 -1.76e-02 2.62e-02 2.23e-02 -1.35e-02 -1.19e-01  
## 3966 1.10e-03 -7.00e-03 -4.73e-03 -6.67e-03 -2.48e-03 7.09e-05 2.13e-02  
## 3967 -4.15e-03 -3.26e-03 -5.30e-03 -1.72e-03 -1.14e-03 -3.47e-03 2.54e-02  
## 3968 -8.64e-03 6.91e-04 8.77e-03 1.11e-02 -6.05e-03 -4.42e-03 3.46e-02  
## 3969 1.71e-02 -1.72e-03 3.09e-03 6.88e-03 -5.33e-03 2.35e-03 -4.49e-02  
## 3970 -1.18e-02 -8.14e-03 1.80e-02 2.27e-03 1.21e-02 -3.43e-02 -8.08e-02  
## 3971 8.76e-05 1.47e-03 -1.02e-03 -6.31e-05 6.87e-04 9.37e-04 5.47e-03  
## 3972 -1.97e-02 4.41e-03 3.84e-02 2.24e-02 3.84e-02 -2.87e-02 8.93e-02  
## 3973 2.97e-05 -1.73e-04 7.31e-04 4.10e-05 -2.04e-05 8.10e-04 -1.95e-03  
## 3974 1.03e-02 8.95e-03 3.75e-03 -6.98e-03 -3.13e-03 1.52e-02 -5.30e-02  
## 3975 -3.43e-02 8.21e-03 4.07e-02 4.38e-03 2.38e-02 -1.53e-02 9.66e-02  
## 3976 1.77e-04 -1.59e-05 -1.30e-03 -4.08e-03 -1.67e-03 4.86e-03 -1.10e-02  
## 3977 -1.14e-02 -1.04e-02 1.85e-02 3.97e-03 1.37e-02 -3.69e-02 -8.17e-02  
## 3978 1.38e-04 2.59e-04 -2.05e-03 2.90e-03 -1.29e-03 5.50e-03 -1.23e-02  
## 3979 -3.19e-04 -2.52e-03 -8.85e-03 -1.69e-02 -1.18e-02 -1.23e-03 4.91e-02  
## 3980 -1.90e-03 -1.12e-03 -1.13e-03 -1.92e-03 -1.46e-03 -6.92e-04 -4.85e-03  
## 3981 -1.28e-02 -5.35e-03 6.77e-03 -3.15e-03 -1.63e-02 2.30e-03 -3.92e-02  
## 3982 2.06e-03 -8.07e-04 -1.47e-03 -3.20e-04 -1.82e-03 -8.73e-04 6.60e-03  
## 3983 -2.53e-02 -4.05e-03 -1.31e-02 -3.53e-04 -7.59e-03 8.91e-03 6.67e-02  
## 3984 -1.66e-02 1.34e-03 -6.78e-03 4.68e-03 2.54e-02 -1.51e-02 7.27e-02  
## 3985 2.10e-02 6.29e-04 5.71e-03 -3.19e-03 -1.41e-02 2.46e-02 -6.21e-02  
## 3986 1.41e-03 -1.47e-03 -2.01e-03 -3.32e-03 1.67e-03 -6.36e-04 -8.32e-03  
## 3987 -5.21e-03 -3.74e-03 -5.61e-03 -6.13e-03 -2.08e-03 -7.94e-04 -2.91e-02  
## 3988 8.97e-03 -1.50e-02 2.76e-03 2.64e-03 3.57e-03 -1.58e-02 -7.67e-02  
## 3989 -1.97e-02 1.50e-02 1.68e-02 3.43e-02 -2.91e-02 -1.43e-03 -9.95e-02  
## 3990 9.23e-05 3.19e-03 7.04e-04 1.60e-03 -1.74e-04 5.88e-04 5.49e-03  
## 3991 -1.96e-03 1.84e-03 -1.14e-03 1.23e-04 7.39e-05 4.23e-06 6.40e-03  
## 3992 3.54e-04 -4.09e-03 2.57e-03 3.64e-03 4.54e-06 -1.26e-03 1.10e-02  
## 3993 -1.08e-02 -9.96e-03 6.47e-03 -8.17e-04 -1.34e-02 -5.37e-04 -4.16e-02  
## 3994 -9.85e-03 -1.43e-02 -2.94e-03 1.10e-02 -7.98e-03 3.85e-03 6.96e-02  
## 3995 -2.74e-04 1.42e-02 -4.77e-03 -9.63e-03 4.84e-03 7.54e-04 3.35e-02  
## 3996 -7.92e-03 -1.78e-03 5.22e-03 4.14e-03 4.30e-03 -5.53e-04 -1.97e-02  
## 3997 1.49e-05 5.66e-04 1.96e-04 5.11e-04 9.40e-05 -1.65e-04 1.34e-03  
## 3998 -4.53e-03 -2.70e-03 6.28e-03 4.01e-03 2.75e-03 2.51e-03 -2.19e-02  
## 3999 1.16e-02 1.26e-02 3.27e-02 -1.45e-02 5.67e-02 -2.76e-02 -9.76e-02  
## cov.r cook.d hat inf  
## 1 1.003 2.41e-04 0.00382   
## 2 1.005 1.41e-05 0.00278   
## 3 0.996 4.16e-04 0.00255   
## 4 1.007 5.18e-06 0.00377   
## 5 1.001 7.54e-05 0.00132   
## 6 1.004 6.40e-05 0.00226   
## 7 1.000 2.91e-04 0.00300   
## 8 1.004 1.08e-04 0.00314   
## 9 1.001 2.12e-04 0.00255   
## 10 1.006 7.80e-06 0.00368   
## 11 1.004 7.10e-05 0.00251   
## 12 1.005 1.29e-06 0.00220   
## 13 1.004 7.12e-05 0.00249   
## 14 0.997 3.03e-04 0.00226   
## 15 1.002 1.96e-04 0.00305   
## 16 1.005 2.60e-06 0.00240   
## 17 1.005 2.88e-07 0.00217   
## 18 1.007 4.66e-06 0.00452   
## 19 0.994 6.71e-04 0.00315   
## 20 1.000 2.47e-04 0.00269   
## 21 1.003 3.19e-04 0.00417   
## 22 1.005 8.57e-06 0.00258   
## 23 0.992 4.10e-04 0.00178   
## 24 1.006 6.10e-07 0.00332   
## 25 1.006 2.12e-06 0.00320   
## 26 1.005 3.57e-05 0.00272   
## 27 0.998 2.94e-04 0.00235   
## 28 0.998 5.74e-04 0.00377   
## 29 1.005 6.21e-06 0.00203   
## 30 0.999 3.96e-04 0.00331   
## 31 1.007 1.29e-06 0.00366   
## 32 0.995 6.74e-04 0.00340   
## 33 1.006 1.20e-06 0.00287   
## 34 1.005 2.66e-05 0.00264   
## 35 1.003 1.76e-04 0.00333   
## 36 1.007 7.77e-06 0.00374   
## 37 1.000 8.13e-05 0.00127   
## 38 1.003 1.07e-04 0.00278   
## 39 1.000 1.57e-04 0.00195   
## 40 1.003 9.84e-05 0.00252   
## 41 1.005 5.75e-05 0.00299   
## 42 1.006 1.80e-06 0.00339   
## 43 1.004 4.22e-06 0.00154   
## 44 1.006 3.47e-06 0.00280   
## 45 1.005 1.64e-04 0.00409   
## 46 1.002 1.68e-04 0.00251   
## 47 1.003 8.57e-05 0.00224   
## 48 1.002 7.87e-05 0.00188   
## 49 1.006 5.27e-06 0.00309   
## 50 1.006 1.13e-05 0.00294   
## 51 1.001 2.26e-04 0.00272   
## 52 1.002 2.45e-04 0.00319   
## 53 1.005 1.64e-04 0.00442   
## 54 1.003 1.25e-04 0.00285   
## 55 1.007 6.30e-07 0.00399   
## 56 1.003 6.26e-05 0.00209   
## 57 1.005 5.03e-05 0.00297   
## 58 1.005 4.10e-05 0.00305   
## 59 1.005 6.57e-07 0.00202   
## 60 1.006 1.72e-05 0.00346   
## 61 1.001 1.62e-04 0.00218   
## 62 1.004 1.00e-04 0.00314   
## 63 1.007 3.50e-06 0.00449   
## 64 1.005 3.85e-05 0.00298   
## 65 1.003 9.34e-05 0.00236   
## 66 1.002 2.10e-04 0.00314   
## 67 1.003 8.67e-05 0.00232   
## 68 1.006 2.14e-05 0.00358   
## 69 1.005 2.78e-06 0.00188   
## 70 1.001 2.45e-04 0.00292   
## 71 1.003 6.76e-05 0.00220   
## 72 1.005 8.50e-07 0.00204   
## 73 1.006 2.12e-05 0.00374   
## 74 1.006 1.10e-07 0.00266   
## 75 1.005 1.33e-04 0.00418   
## 76 1.005 7.18e-05 0.00318   
## 77 1.006 2.64e-05 0.00315   
## 78 1.005 5.25e-05 0.00281   
## 79 1.005 1.62e-04 0.00404   
## 80 1.005 6.40e-06 0.00199   
## 81 1.003 1.27e-04 0.00258   
## 82 1.004 2.22e-04 0.00415   
## 83 1.002 2.16e-04 0.00301   
## 84 1.004 1.05e-04 0.00285   
## 85 1.005 7.20e-08 0.00248   
## 86 0.996 4.25e-04 0.00258   
## 87 1.006 4.76e-05 0.00346   
## 88 1.005 2.63e-06 0.00181   
## 89 1.005 1.65e-07 0.00221   
## 90 1.004 1.69e-04 0.00402   
## 91 1.004 1.26e-04 0.00344   
## 92 1.000 3.37e-04 0.00329   
## 93 1.006 2.49e-06 0.00301   
## 94 1.005 5.41e-05 0.00297   
## 95 1.006 1.45e-05 0.00311   
## 96 1.001 1.66e-04 0.00217   
## 97 1.005 7.53e-06 0.00275   
## 98 0.991 3.83e-04 0.00164 \*  
## 99 1.005 2.00e-06 0.00205   
## 100 1.002 1.91e-04 0.00285   
## 101 1.004 2.32e-05 0.00177   
## 102 1.005 2.05e-05 0.00224   
## 103 1.004 1.04e-04 0.00327   
## 104 1.007 4.43e-05 0.00508   
## 105 0.989 7.79e-04 0.00266 \*  
## 106 1.003 1.46e-04 0.00289   
## 107 1.006 2.03e-05 0.00302   
## 108 1.005 4.79e-05 0.00330   
## 109 1.002 1.63e-04 0.00272   
## 110 1.005 1.46e-05 0.00260   
## 111 0.996 5.62e-04 0.00320   
## 112 1.005 4.24e-06 0.00265   
## 113 1.003 1.43e-04 0.00288   
## 114 1.000 1.87e-04 0.00226   
## 115 1.007 1.14e-05 0.00403   
## 116 1.002 3.67e-04 0.00422   
## 117 1.007 2.39e-05 0.00425   
## 118 1.003 1.55e-04 0.00326   
## 119 1.005 1.45e-08 0.00181   
## 120 1.003 1.74e-04 0.00304   
## 121 1.003 7.89e-05 0.00215   
## 122 1.004 2.02e-05 0.00164   
## 123 1.002 6.85e-05 0.00149   
## 124 1.004 6.12e-05 0.00247   
## 125 1.004 2.18e-05 0.00209   
## 126 1.006 8.17e-05 0.00389   
## 127 1.001 1.89e-04 0.00251   
## 128 1.006 6.82e-07 0.00322   
## 129 1.004 2.26e-05 0.00179   
## 130 1.007 5.43e-05 0.00500   
## 131 0.996 2.75e-04 0.00187   
## 132 0.998 6.89e-04 0.00420   
## 133 1.006 8.52e-06 0.00373   
## 134 1.001 2.89e-04 0.00321   
## 135 0.996 2.61e-04 0.00170   
## 136 1.005 4.83e-06 0.00224   
## 137 1.002 1.43e-04 0.00248   
## 138 1.005 6.18e-06 0.00257   
## 139 1.006 6.88e-07 0.00315   
## 140 1.003 1.02e-04 0.00254   
## 141 1.006 7.55e-06 0.00315   
## 142 0.997 5.47e-04 0.00346   
## 143 1.005 7.39e-05 0.00311   
## 144 1.005 2.16e-05 0.00267   
## 145 1.007 6.04e-07 0.00364   
## 146 1.006 1.03e-06 0.00316   
## 147 1.004 1.23e-05 0.00179   
## 148 0.997 2.06e-04 0.00164   
## 149 1.006 3.41e-05 0.00378   
## 150 1.005 1.14e-04 0.00395   
## 151 1.003 1.72e-04 0.00314   
## 152 1.004 9.12e-05 0.00265   
## 153 1.005 7.63e-06 0.00273   
## 154 1.005 1.46e-05 0.00222   
## 155 1.004 1.82e-05 0.00208   
## 156 1.000 3.02e-04 0.00283   
## 157 0.999 2.51e-04 0.00219   
## 158 1.004 2.51e-06 0.00141   
## 159 1.007 4.40e-05 0.00445   
## 160 1.006 1.86e-05 0.00364   
## 161 1.004 6.70e-05 0.00285   
## 162 1.000 2.92e-04 0.00286   
## 163 0.997 1.59e-04 0.00129   
## 164 1.006 2.04e-06 0.00348   
## 165 1.004 6.86e-06 0.00171   
## 166 1.006 6.83e-06 0.00321   
## 167 1.001 1.19e-04 0.00186   
## 168 1.005 8.32e-06 0.00218   
## 169 0.998 8.81e-04 0.00496   
## 170 1.004 1.02e-05 0.00179   
## 171 1.006 3.49e-05 0.00344   
## 172 1.005 1.25e-04 0.00395   
## 173 1.006 1.01e-04 0.00474   
## 174 0.996 4.51e-04 0.00267   
## 175 1.004 1.30e-06 0.00161   
## 176 1.005 2.09e-05 0.00257   
## 177 1.002 1.00e-04 0.00211   
## 178 1.002 3.07e-04 0.00357   
## 179 0.999 4.47e-04 0.00331   
## 180 1.006 5.53e-07 0.00268   
## 181 0.998 5.89e-04 0.00398   
## 182 1.002 8.63e-05 0.00185   
## 183 1.003 1.60e-04 0.00285   
## 184 1.005 2.49e-05 0.00297   
## 185 1.000 2.16e-04 0.00241   
## 186 1.000 3.99e-04 0.00357   
## 187 1.003 7.89e-05 0.00218   
## 188 1.004 1.24e-04 0.00328   
## 189 1.004 5.60e-06 0.00132   
## 190 1.005 4.86e-05 0.00298   
## 191 1.006 1.48e-05 0.00300   
## 192 1.003 1.99e-04 0.00364   
## 193 1.005 1.35e-05 0.00254   
## 194 1.006 4.60e-08 0.00321   
## 195 1.004 5.87e-06 0.00181   
## 196 1.003 2.43e-04 0.00396   
## 197 1.006 1.03e-05 0.00319   
## 198 1.004 7.09e-05 0.00271   
## 199 1.006 2.95e-06 0.00280   
## 200 1.005 2.42e-05 0.00229   
## 201 1.003 1.77e-04 0.00324   
## 202 1.002 1.82e-04 0.00263   
## 203 1.006 4.68e-06 0.00350   
## 204 1.000 2.67e-04 0.00260   
## 205 1.003 8.16e-05 0.00245   
## 206 1.004 8.07e-05 0.00295   
## 207 1.006 9.14e-06 0.00360   
## 208 1.002 1.25e-04 0.00224   
## 209 1.001 3.08e-04 0.00330   
## 210 1.005 1.29e-05 0.00260   
## 211 0.997 2.32e-04 0.00180   
## 212 1.003 1.62e-04 0.00299   
## 213 1.006 6.71e-06 0.00308   
## 214 1.004 9.95e-07 0.00122   
## 215 0.999 3.68e-04 0.00295   
## 216 1.007 5.49e-05 0.00454   
## 217 1.006 2.68e-05 0.00379   
## 218 1.007 1.35e-06 0.00397   
## 219 1.005 1.49e-07 0.00258   
## 220 0.998 2.95e-04 0.00231   
## 221 1.001 7.87e-05 0.00129   
## 222 1.006 4.35e-06 0.00282   
## 223 1.005 2.61e-05 0.00255   
## 224 0.996 5.09e-04 0.00287   
## 225 1.005 1.76e-05 0.00236   
## 226 1.004 1.80e-04 0.00385   
## 227 1.005 3.26e-05 0.00292   
## 228 0.999 3.81e-04 0.00320   
## 229 1.001 2.03e-04 0.00266   
## 230 1.006 2.59e-06 0.00281   
## 231 1.005 2.26e-05 0.00277   
## 232 1.006 4.30e-05 0.00362   
## 233 1.003 1.70e-04 0.00305   
## 234 1.005 1.06e-05 0.00278   
## 235 1.004 2.05e-05 0.00211   
## 236 0.999 2.96e-04 0.00266   
## 237 1.006 1.34e-04 0.00501   
## 238 0.999 1.91e-04 0.00178   
## 239 1.004 1.05e-04 0.00281   
## 240 1.005 3.09e-06 0.00210   
## 241 1.006 7.63e-06 0.00306   
## 242 1.006 1.65e-07 0.00321   
## 243 1.005 1.10e-05 0.00278   
## 244 1.007 4.15e-05 0.00473   
## 245 1.003 1.68e-04 0.00339   
## 246 1.000 3.03e-04 0.00306   
## 247 1.005 6.67e-05 0.00348   
## 248 1.001 1.69e-04 0.00232   
## 249 0.996 3.28e-04 0.00214   
## 250 1.004 8.81e-05 0.00278   
## 251 1.005 4.83e-05 0.00315   
## 252 1.000 1.73e-04 0.00216   
## 253 1.002 4.91e-04 0.00503   
## 254 1.006 4.00e-05 0.00361   
## 255 1.004 3.03e-05 0.00184   
## 256 1.006 2.37e-06 0.00345   
## 257 1.005 2.61e-07 0.00230   
## 258 1.005 1.94e-05 0.00228   
## 259 0.998 3.24e-04 0.00246   
## 260 1.005 2.42e-04 0.00466   
## 261 1.003 3.08e-04 0.00407   
## 262 1.004 8.30e-05 0.00310   
## 263 1.003 1.70e-04 0.00299   
## 264 1.007 3.35e-05 0.00478   
## 265 1.005 4.70e-05 0.00285   
## 266 1.005 9.49e-06 0.00259   
## 267 1.005 3.55e-09 0.00233   
## 268 1.002 4.18e-04 0.00443   
## 269 0.983 9.84e-04 0.00251 \*  
## 270 1.006 4.09e-08 0.00300   
## 271 1.003 1.70e-04 0.00309   
## 272 1.006 7.62e-06 0.00305   
## 273 0.998 5.24e-04 0.00369   
## 274 1.000 4.83e-04 0.00413   
## 275 1.001 1.20e-04 0.00172   
## 276 1.003 2.50e-04 0.00367   
## 277 0.997 3.03e-04 0.00224   
## 278 1.005 1.65e-04 0.00450   
## 279 1.002 2.19e-04 0.00333   
## 280 1.004 9.01e-05 0.00271   
## 281 1.004 6.19e-05 0.00245   
## 282 1.003 6.82e-05 0.00207   
## 283 1.005 5.81e-05 0.00300   
## 284 1.007 6.36e-06 0.00466   
## 285 1.001 2.41e-04 0.00302   
## 286 1.000 1.75e-04 0.00204   
## 287 1.003 6.38e-05 0.00175   
## 288 1.001 1.59e-04 0.00219   
## 289 1.002 1.46e-04 0.00238   
## 290 0.996 2.56e-04 0.00174   
## 291 1.001 1.14e-04 0.00192   
## 292 1.006 7.98e-06 0.00296   
## 293 1.005 1.18e-04 0.00396   
## 294 0.995 4.41e-04 0.00236   
## 295 1.004 1.51e-05 0.00159   
## 296 1.004 2.33e-05 0.00177   
## 297 1.007 3.85e-06 0.00446   
## 298 0.998 2.70e-04 0.00217   
## 299 1.004 1.21e-04 0.00320   
## 300 1.001 2.41e-04 0.00294   
## 301 1.004 1.27e-04 0.00304   
## 302 1.005 3.28e-05 0.00248   
## 303 0.999 3.84e-04 0.00325   
## 304 1.006 1.35e-07 0.00344   
## 305 1.003 1.90e-04 0.00313   
## 306 1.005 3.57e-08 0.00227   
## 307 1.001 1.59e-04 0.00211   
## 308 1.006 3.17e-05 0.00355   
## 309 1.001 2.87e-04 0.00341   
## 310 1.006 3.50e-05 0.00359   
## 311 1.005 4.78e-05 0.00289   
## 312 1.003 1.92e-04 0.00319   
## 313 1.005 3.16e-05 0.00277   
## 314 0.997 3.13e-04 0.00226   
## 315 1.002 8.77e-05 0.00183   
## 316 1.005 2.09e-05 0.00277   
## 317 1.006 2.51e-06 0.00315   
## 318 0.988 8.94e-04 0.00281 \*  
## 319 1.002 1.51e-04 0.00258   
## 320 1.002 2.07e-04 0.00299   
## 321 0.989 1.29e-03 0.00412 \*  
## 322 1.006 1.19e-06 0.00356   
## 323 1.001 9.29e-05 0.00166   
## 324 1.005 3.75e-05 0.00268   
## 325 1.007 5.45e-08 0.00395   
## 326 1.003 1.04e-04 0.00270   
## 327 1.000 4.32e-04 0.00363   
## 328 1.002 8.50e-05 0.00192   
## 329 1.003 2.97e-04 0.00437   
## 330 0.998 3.52e-04 0.00260   
## 331 1.005 1.33e-06 0.00214   
## 332 1.004 2.16e-05 0.00194   
## 333 1.003 9.74e-05 0.00242   
## 334 1.001 7.31e-05 0.00141   
## 335 1.003 1.52e-04 0.00283   
## 336 0.985 1.22e-03 0.00331 \*  
## 337 0.997 4.17e-04 0.00279   
## 338 1.005 5.51e-06 0.00240   
## 339 1.001 1.57e-04 0.00221   
## 340 0.996 4.65e-04 0.00264   
## 341 1.006 4.02e-05 0.00405   
## 342 1.005 2.12e-05 0.00223   
## 343 1.007 1.00e-06 0.00387   
## 344 1.006 4.12e-07 0.00292   
## 345 1.005 2.24e-06 0.00219   
## 346 0.995 3.34e-04 0.00200   
## 347 1.003 5.69e-05 0.00193   
## 348 1.006 1.03e-05 0.00296   
## 349 1.001 2.33e-04 0.00301   
## 350 1.007 1.65e-05 0.00430   
## 351 1.006 1.66e-06 0.00329   
## 352 1.005 5.08e-05 0.00276   
## 353 0.995 4.39e-04 0.00237   
## 354 1.003 2.53e-04 0.00390   
## 355 1.001 4.93e-04 0.00429   
## 356 1.002 1.38e-04 0.00230   
## 357 1.003 1.65e-04 0.00316   
## 358 1.006 2.87e-05 0.00315   
## 359 0.997 7.15e-04 0.00406   
## 360 1.004 9.38e-05 0.00281   
## 361 1.005 1.95e-05 0.00220   
## 362 1.005 8.44e-05 0.00344   
## 363 1.006 3.59e-06 0.00325   
## 364 1.005 1.22e-06 0.00232   
## 365 1.002 1.78e-04 0.00264   
## 366 1.003 1.64e-04 0.00326   
## 367 1.005 1.02e-04 0.00358   
## 368 1.004 2.31e-05 0.00184   
## 369 1.004 5.00e-05 0.00260   
## 370 1.005 7.43e-07 0.00221   
## 371 1.004 8.72e-07 0.00140   
## 372 1.003 6.22e-05 0.00209   
## 373 1.007 1.65e-05 0.00468   
## 374 1.005 3.39e-05 0.00277   
## 375 1.001 1.59e-04 0.00225   
## 376 1.005 1.96e-05 0.00269   
## 377 1.003 1.67e-04 0.00302   
## 378 1.001 2.30e-04 0.00296   
## 379 1.005 3.51e-06 0.00239   
## 380 1.003 2.11e-04 0.00338   
## 381 1.005 6.78e-05 0.00340   
## 382 0.996 3.42e-04 0.00224   
## 383 1.007 5.02e-07 0.00412   
## 384 1.004 1.02e-04 0.00304   
## 385 1.004 1.13e-04 0.00288   
## 386 0.993 6.56e-04 0.00301   
## 387 0.997 4.60e-04 0.00309   
## 388 1.006 2.26e-05 0.00366   
## 389 1.002 1.98e-04 0.00287   
## 390 1.003 8.40e-05 0.00235   
## 391 0.998 2.42e-04 0.00197   
## 392 1.004 2.12e-04 0.00434   
## 393 1.001 1.79e-04 0.00256   
## 394 1.004 1.20e-05 0.00160   
## 395 0.999 2.50e-04 0.00227   
## 396 1.005 2.87e-06 0.00216   
## 397 1.002 2.65e-04 0.00366   
## 398 0.997 2.66e-04 0.00198   
## 399 1.004 2.32e-04 0.00422   
## 400 1.004 2.66e-06 0.00142   
## 401 1.004 1.08e-06 0.00162   
## 402 1.004 6.69e-06 0.00160   
## 403 0.995 6.83e-04 0.00351   
## 404 1.006 1.60e-05 0.00339   
## 405 1.005 8.63e-06 0.00240   
## 406 1.006 3.45e-06 0.00314   
## 407 1.006 3.78e-05 0.00328   
## 408 1.001 3.39e-04 0.00347   
## 409 0.993 4.16e-04 0.00206   
## 410 0.993 4.25e-04 0.00207   
## 411 1.004 9.39e-05 0.00268   
## 412 1.005 1.02e-05 0.00254   
## 413 1.000 1.69e-04 0.00187   
## 414 1.005 6.85e-05 0.00321   
## 415 1.003 1.64e-04 0.00317   
## 416 1.003 1.61e-04 0.00290   
## 417 1.006 4.03e-06 0.00324   
## 418 1.005 5.45e-06 0.00251   
## 419 0.999 3.56e-04 0.00306   
## 420 1.003 1.55e-04 0.00322   
## 421 1.004 7.43e-05 0.00298   
## 422 0.999 1.92e-04 0.00180   
## 423 1.005 1.54e-04 0.00409   
## 424 1.005 2.81e-06 0.00204   
## 425 1.006 1.07e-04 0.00430   
## 426 1.006 7.36e-05 0.00404   
## 427 1.002 1.15e-04 0.00223   
## 428 0.999 3.63e-04 0.00288   
## 429 0.999 1.94e-04 0.00183   
## 430 1.006 7.83e-06 0.00330   
## 431 0.989 1.35e-03 0.00428 \*  
## 432 1.006 3.29e-06 0.00290   
## 433 1.004 6.75e-05 0.00254   
## 434 0.996 3.28e-04 0.00215   
## 435 1.005 9.41e-07 0.00217   
## 436 1.005 1.43e-04 0.00385   
## 437 1.005 9.77e-07 0.00194   
## 438 1.005 1.24e-06 0.00247   
## 439 1.002 2.10e-04 0.00326   
## 440 1.004 8.50e-05 0.00271   
## 441 1.001 3.97e-04 0.00380   
## 442 1.004 1.99e-04 0.00378   
## 443 1.004 3.70e-05 0.00240   
## 444 1.005 1.27e-04 0.00382   
## 445 1.003 1.74e-04 0.00299   
## 446 0.996 4.07e-04 0.00258   
## 447 1.001 1.20e-04 0.00170   
## 448 1.005 4.93e-07 0.00244   
## 449 0.997 3.82e-04 0.00267   
## 450 1.007 1.27e-05 0.00390   
## 451 1.006 4.43e-07 0.00314   
## 452 1.006 1.34e-04 0.00442   
## 453 1.007 5.04e-05 0.00450   
## 454 1.000 2.36e-04 0.00252   
## 455 1.006 4.62e-08 0.00291   
## 456 0.998 2.57e-04 0.00214   
## 457 1.005 7.83e-05 0.00374   
## 458 1.006 1.42e-05 0.00365   
## 459 1.005 3.08e-05 0.00241   
## 460 0.996 2.35e-04 0.00155   
## 461 1.005 1.79e-05 0.00220   
## 462 1.004 1.66e-04 0.00355   
## 463 1.004 1.27e-04 0.00353   
## 464 1.004 7.91e-05 0.00265   
## 465 1.006 2.40e-06 0.00308   
## 466 1.008 1.99e-05 0.00540   
## 467 1.006 3.47e-05 0.00359   
## 468 1.006 3.44e-05 0.00334   
## 469 1.005 8.08e-07 0.00230   
## 470 0.997 4.44e-04 0.00288   
## 471 1.005 2.33e-05 0.00244   
## 472 0.999 2.36e-04 0.00226   
## 473 1.001 2.68e-04 0.00327   
## 474 1.006 1.94e-05 0.00302   
## 475 1.001 1.73e-04 0.00248   
## 476 1.000 1.55e-04 0.00181   
## 477 1.006 1.22e-04 0.00433   
## 478 1.005 1.09e-04 0.00403   
## 479 1.003 1.26e-04 0.00272   
## 480 0.999 3.27e-04 0.00284   
## 481 1.005 2.47e-06 0.00249   
## 482 0.996 9.71e-04 0.00471   
## 483 0.998 3.15e-04 0.00244   
## 484 1.005 9.25e-06 0.00266   
## 485 1.002 1.90e-04 0.00279   
## 486 1.006 3.61e-05 0.00389   
## 487 0.996 3.55e-04 0.00227   
## 488 1.006 2.12e-07 0.00271   
## 489 1.002 1.14e-04 0.00230   
## 490 1.005 3.18e-05 0.00273   
## 491 1.002 1.78e-04 0.00272   
## 492 1.001 2.04e-04 0.00268   
## 493 1.007 2.75e-05 0.00422   
## 494 1.004 2.34e-05 0.00177   
## 495 0.998 6.86e-04 0.00421   
## 496 1.006 1.20e-05 0.00322   
## 497 1.006 1.05e-05 0.00289   
## 498 0.999 5.09e-04 0.00394   
## 499 1.003 3.07e-04 0.00416   
## 500 1.004 8.57e-05 0.00280   
## 501 1.006 3.73e-05 0.00404   
## 502 1.007 1.35e-07 0.00383   
## 503 1.007 2.69e-05 0.00417   
## 504 1.006 2.13e-05 0.00338   
## 505 1.003 1.62e-04 0.00312   
## 506 1.000 3.49e-04 0.00311   
## 507 1.004 1.51e-04 0.00337   
## 508 1.002 2.12e-04 0.00302   
## 509 1.004 2.40e-05 0.00181   
## 510 1.006 2.05e-04 0.00500   
## 511 1.004 1.02e-04 0.00318   
## 512 1.003 8.08e-05 0.00231   
## 513 1.004 9.29e-05 0.00303   
## 514 1.004 1.25e-04 0.00339   
## 515 0.998 4.35e-04 0.00307   
## 516 1.005 5.42e-06 0.00234   
## 517 0.999 3.16e-04 0.00263   
## 518 1.000 3.60e-04 0.00327   
## 519 1.004 1.28e-05 0.00173   
## 520 1.004 3.98e-05 0.00238   
## 521 1.002 1.68e-04 0.00290   
## 522 1.005 1.17e-04 0.00371   
## 523 0.999 2.18e-04 0.00222   
## 524 1.001 1.50e-04 0.00197   
## 525 1.006 4.21e-05 0.00354   
## 526 1.006 9.79e-07 0.00332   
## 527 1.005 3.70e-05 0.00287   
## 528 1.005 7.89e-08 0.00169   
## 529 1.006 5.91e-05 0.00406   
## 530 1.005 3.60e-06 0.00226   
## 531 1.005 1.19e-05 0.00244   
## 532 0.996 2.72e-04 0.00185   
## 533 1.006 5.98e-05 0.00368   
## 534 1.003 5.98e-05 0.00211   
## 535 0.997 3.48e-04 0.00242   
## 536 1.004 8.11e-05 0.00297   
## 537 1.006 1.25e-05 0.00318   
## 538 1.006 4.50e-05 0.00340   
## 539 1.006 9.20e-07 0.00283   
## 540 1.005 1.19e-06 0.00243   
## 541 1.001 2.25e-04 0.00279   
## 542 1.004 2.36e-05 0.00182   
## 543 1.003 1.04e-04 0.00239   
## 544 0.998 6.36e-04 0.00399   
## 545 1.003 1.47e-04 0.00292   
## 546 0.999 3.95e-04 0.00310   
## 547 1.005 3.60e-05 0.00280   
## 548 1.004 1.01e-04 0.00333   
## 549 1.004 1.25e-05 0.00157   
## 550 1.006 2.13e-06 0.00295   
## 551 1.005 2.45e-07 0.00238   
## 552 1.005 6.04e-06 0.00191   
## 553 1.005 1.51e-05 0.00278   
## 554 0.999 2.36e-04 0.00213   
## 555 1.006 9.09e-06 0.00342   
## 556 1.005 2.72e-05 0.00264   
## 557 1.006 2.64e-06 0.00314   
## 558 1.000 1.35e-04 0.00157   
## 559 1.003 8.37e-05 0.00206   
## 560 1.004 6.59e-05 0.00251   
## 561 1.004 9.45e-05 0.00327   
## 562 1.004 1.50e-04 0.00357   
## 563 1.004 6.04e-05 0.00272   
## 564 1.005 1.13e-04 0.00366   
## 565 1.006 2.09e-05 0.00312   
## 566 1.004 2.12e-04 0.00383   
## 567 1.006 2.74e-05 0.00316   
## 568 1.000 1.38e-04 0.00181   
## 569 1.005 1.09e-04 0.00403   
## 570 1.005 1.23e-06 0.00229   
## 571 1.007 6.69e-06 0.00456   
## 572 1.005 6.86e-05 0.00309   
## 573 0.995 5.02e-04 0.00271   
## 574 1.000 3.23e-04 0.00304   
## 575 1.006 7.36e-07 0.00350   
## 576 1.004 1.51e-04 0.00368   
## 577 0.998 1.43e-04 0.00130   
## 578 1.002 2.48e-04 0.00327   
## 579 1.004 4.00e-05 0.00203   
## 580 0.990 5.23e-04 0.00198 \*  
## 581 1.000 2.14e-04 0.00247   
## 582 1.005 7.75e-05 0.00315   
## 583 1.005 4.24e-05 0.00258   
## 584 1.004 4.04e-05 0.00199   
## 585 1.004 4.87e-05 0.00262   
## 586 1.007 6.31e-07 0.00371   
## 587 1.005 9.40e-06 0.00196   
## 588 1.006 2.83e-06 0.00362   
## 589 1.004 2.26e-05 0.00215   
## 590 1.006 2.29e-06 0.00298   
## 591 1.005 1.12e-06 0.00181   
## 592 1.006 3.77e-06 0.00280   
## 593 1.004 1.18e-04 0.00298   
## 594 1.002 8.31e-05 0.00180   
## 595 0.996 6.56e-04 0.00356   
## 596 1.008 4.73e-05 0.00519   
## 597 1.003 2.03e-04 0.00342   
## 598 1.003 9.84e-05 0.00255   
## 599 1.006 1.15e-06 0.00266   
## 600 1.001 1.57e-04 0.00223   
## 601 1.004 1.35e-05 0.00183   
## 602 1.005 4.86e-05 0.00294   
## 603 1.005 4.85e-05 0.00280   
## 604 1.003 1.25e-04 0.00266   
## 605 1.005 9.10e-06 0.00255   
## 606 1.006 5.47e-07 0.00270   
## 607 1.006 3.39e-12 0.00335   
## 608 1.005 6.72e-06 0.00271   
## 609 0.996 8.34e-04 0.00416   
## 610 0.998 4.81e-04 0.00341   
## 611 0.992 8.85e-04 0.00355   
## 612 1.006 1.02e-05 0.00335   
## 613 1.003 1.33e-04 0.00265   
## 614 1.006 2.75e-06 0.00363   
## 615 1.003 1.05e-04 0.00231   
## 616 1.002 1.67e-04 0.00281   
## 617 1.005 6.32e-05 0.00331   
## 618 1.006 2.90e-05 0.00342   
## 619 0.999 2.92e-04 0.00245   
## 620 1.003 3.96e-04 0.00504   
## 621 1.005 2.66e-05 0.00300   
## 622 1.003 1.21e-04 0.00282   
## 623 1.005 2.12e-06 0.00198   
## 624 0.991 6.02e-04 0.00238 \*  
## 625 1.001 2.48e-04 0.00278   
## 626 1.002 2.12e-04 0.00305   
## 627 1.005 5.90e-05 0.00285   
## 628 1.007 1.33e-05 0.00401   
## 629 0.998 4.56e-04 0.00331   
## 630 0.999 4.35e-04 0.00342   
## 631 1.006 2.47e-05 0.00335   
## 632 1.004 2.27e-05 0.00197   
## 633 1.004 8.39e-06 0.00146   
## 634 1.006 5.61e-05 0.00379   
## 635 0.995 5.80e-04 0.00305   
## 636 1.005 1.06e-04 0.00359   
## 637 1.005 2.57e-05 0.00256   
## 638 0.996 5.88e-04 0.00329   
## 639 1.003 9.75e-05 0.00240   
## 640 1.005 4.78e-06 0.00255   
## 641 0.994 8.11e-04 0.00356   
## 642 1.003 5.91e-05 0.00194   
## 643 1.004 1.34e-04 0.00353   
## 644 1.004 4.95e-05 0.00255   
## 645 1.003 7.45e-05 0.00223   
## 646 0.998 2.14e-04 0.00175   
## 647 1.006 1.98e-05 0.00323   
## 648 1.005 1.30e-04 0.00378   
## 649 1.001 1.87e-04 0.00246   
## 650 1.001 1.20e-04 0.00183   
## 651 1.002 1.27e-04 0.00224   
## 652 1.005 2.24e-08 0.00169   
## 653 1.004 3.16e-05 0.00217   
## 654 0.993 5.80e-04 0.00266   
## 655 0.998 3.31e-04 0.00266   
## 656 1.005 8.13e-06 0.00195   
## 657 1.006 4.99e-06 0.00334   
## 658 0.990 5.83e-04 0.00214 \*  
## 659 1.005 5.56e-06 0.00270   
## 660 0.999 3.34e-04 0.00293   
## 661 1.003 7.07e-05 0.00186   
## 662 1.004 2.30e-05 0.00178   
## 663 1.007 6.21e-08 0.00401   
## 664 1.005 6.15e-06 0.00199   
## 665 0.998 2.72e-04 0.00222   
## 666 1.000 1.16e-04 0.00155   
## 667 1.006 9.87e-05 0.00404   
## 668 0.996 2.72e-04 0.00184   
## 669 1.007 2.22e-07 0.00377   
## 670 1.005 2.01e-07 0.00234   
## 671 1.005 3.80e-07 0.00188   
## 672 1.002 6.75e-05 0.00172   
## 673 1.004 4.14e-05 0.00232   
## 674 0.999 6.61e-04 0.00454   
## 675 1.006 2.80e-05 0.00372   
## 676 1.005 1.59e-06 0.00222   
## 677 1.001 2.95e-04 0.00322   
## 678 0.997 7.60e-04 0.00422   
## 679 1.004 1.05e-04 0.00294   
## 680 1.002 1.76e-04 0.00282   
## 681 1.006 1.12e-07 0.00315   
## 682 1.004 1.17e-04 0.00315   
## 683 1.002 1.66e-04 0.00258   
## 684 0.998 2.01e-04 0.00178   
## 685 1.002 8.79e-05 0.00206   
## 686 1.005 6.14e-06 0.00249   
## 687 0.998 3.95e-04 0.00295   
## 688 1.006 3.70e-05 0.00387   
## 689 1.004 1.32e-04 0.00321   
## 690 1.004 4.28e-05 0.00202   
## 691 1.006 2.54e-05 0.00353   
## 692 1.005 1.87e-07 0.00208   
## 693 1.002 7.44e-05 0.00161   
## 694 1.005 3.60e-05 0.00262   
## 695 1.004 6.01e-05 0.00268   
## 696 1.006 1.94e-06 0.00272   
## 697 0.997 3.95e-04 0.00276   
## 698 1.005 1.41e-04 0.00382   
## 699 1.005 1.61e-05 0.00293   
## 700 1.007 3.79e-06 0.00385   
## 701 1.001 1.73e-04 0.00244   
## 702 0.999 1.96e-04 0.00190   
## 703 1.004 4.29e-05 0.00199   
## 704 1.003 8.05e-05 0.00223   
## 705 0.998 3.86e-04 0.00274   
## 706 1.006 1.35e-05 0.00355   
## 707 1.001 2.98e-04 0.00346   
## 708 1.002 1.62e-04 0.00252   
## 709 1.004 1.26e-04 0.00361   
## 710 0.991 4.21e-04 0.00180 \*  
## 711 1.002 2.41e-04 0.00349   
## 712 1.005 6.92e-07 0.00243   
## 713 1.003 3.04e-04 0.00399   
## 714 1.006 1.66e-06 0.00346   
## 715 1.003 1.29e-04 0.00292   
## 716 1.007 3.73e-07 0.00376   
## 717 1.000 2.14e-04 0.00227   
## 718 1.002 2.17e-04 0.00318   
## 719 1.005 1.17e-04 0.00367   
## 720 1.005 1.18e-05 0.00213   
## 721 1.005 6.04e-06 0.00187   
## 722 1.003 9.48e-05 0.00264   
## 723 0.997 2.11e-04 0.00163   
## 724 1.002 1.16e-04 0.00213   
## 725 1.004 8.77e-05 0.00317   
## 726 1.005 1.13e-05 0.00250   
## 727 0.998 3.25e-04 0.00239   
## 728 0.999 4.77e-04 0.00372   
## 729 1.006 2.02e-07 0.00324   
## 730 0.997 4.94e-04 0.00321   
## 731 1.004 1.96e-05 0.00165   
## 732 1.001 1.43e-04 0.00225   
## 733 1.007 1.99e-07 0.00376   
## 734 1.001 2.68e-04 0.00321   
## 735 1.004 1.51e-04 0.00380   
## 736 1.003 1.39e-04 0.00269   
## 737 1.006 1.07e-05 0.00359   
## 738 1.002 1.70e-04 0.00261   
## 739 1.006 4.70e-06 0.00298   
## 740 1.006 2.95e-06 0.00360   
## 741 1.000 3.01e-04 0.00292   
## 742 1.003 1.94e-04 0.00329   
## 743 1.006 1.13e-07 0.00284   
## 744 1.002 8.95e-05 0.00181   
## 745 1.005 1.99e-05 0.00296   
## 746 1.006 7.64e-07 0.00331   
## 747 0.999 3.93e-04 0.00315   
## 748 1.005 3.39e-07 0.00222   
## 749 1.006 2.74e-05 0.00368   
## 750 1.004 4.53e-05 0.00253   
## 751 1.006 6.59e-06 0.00297   
## 752 1.005 1.14e-04 0.00381   
## 753 1.002 4.40e-04 0.00440   
## 754 1.003 8.46e-05 0.00236   
## 755 1.005 8.35e-06 0.00270   
## 756 1.004 2.19e-05 0.00174   
## 757 1.002 2.93e-04 0.00359   
## 758 1.006 2.37e-06 0.00338   
## 759 1.004 2.39e-05 0.00175   
## 760 1.001 1.76e-04 0.00224   
## 761 1.001 1.14e-04 0.00191   
## 762 1.005 3.10e-05 0.00291   
## 763 1.005 7.60e-06 0.00259   
## 764 1.002 2.60e-04 0.00324   
## 765 0.999 1.99e-04 0.00206   
## 766 1.005 5.97e-06 0.00197   
## 767 1.004 9.58e-05 0.00279   
## 768 1.006 6.40e-05 0.00388   
## 769 1.004 2.78e-05 0.00195   
## 770 1.002 6.72e-05 0.00168   
## 771 0.992 4.15e-04 0.00180   
## 772 1.003 2.60e-04 0.00403   
## 773 0.999 2.37e-04 0.00234   
## 774 1.006 6.27e-06 0.00289   
## 775 1.004 2.62e-04 0.00438   
## 776 1.003 1.00e-04 0.00224   
## 777 1.005 1.81e-05 0.00263   
## 778 0.996 2.54e-04 0.00169   
## 779 1.006 5.42e-06 0.00331   
## 780 1.003 8.58e-05 0.00234   
## 781 1.005 2.89e-05 0.00264   
## 782 0.997 2.90e-04 0.00203   
## 783 1.008 7.74e-08 0.00469   
## 784 0.998 3.68e-04 0.00271   
## 785 1.006 9.30e-06 0.00332   
## 786 1.006 4.34e-05 0.00339   
## 787 1.005 8.07e-05 0.00367   
## 788 1.005 3.90e-05 0.00282   
## 789 1.006 9.84e-08 0.00327   
## 790 1.006 1.37e-06 0.00320   
## 791 1.006 1.56e-05 0.00316   
## 792 1.007 1.92e-07 0.00365   
## 793 1.002 2.79e-04 0.00349   
## 794 1.004 2.04e-04 0.00395   
## 795 1.003 1.11e-04 0.00282   
## 796 1.005 4.57e-05 0.00302   
## 797 1.005 2.13e-05 0.00221   
## 798 0.995 4.39e-04 0.00241   
## 799 1.006 7.52e-05 0.00399   
## 800 1.003 1.17e-04 0.00257   
## 801 1.005 5.03e-06 0.00254   
## 802 1.007 4.85e-06 0.00371   
## 803 1.002 1.34e-04 0.00244   
## 804 1.006 5.26e-06 0.00350   
## 805 1.005 3.90e-05 0.00269   
## 806 1.006 2.07e-06 0.00268   
## 807 1.000 1.96e-04 0.00213   
## 808 1.001 7.54e-05 0.00128   
## 809 0.994 4.01e-04 0.00215   
## 810 0.989 1.06e-03 0.00348 \*  
## 811 1.005 1.21e-06 0.00216   
## 812 1.006 2.83e-05 0.00351   
## 813 1.006 5.37e-05 0.00352   
## 814 0.998 2.49e-04 0.00212   
## 815 1.003 1.09e-04 0.00271   
## 816 1.005 2.54e-05 0.00257   
## 817 1.002 2.26e-04 0.00320   
## 818 1.006 1.24e-09 0.00312   
## 819 1.005 9.31e-05 0.00334   
## 820 1.006 6.91e-07 0.00266   
## 821 1.002 8.66e-05 0.00184   
## 822 1.003 1.45e-04 0.00313   
## 823 1.005 6.95e-07 0.00259   
## 824 1.001 2.77e-04 0.00318   
## 825 1.005 5.76e-05 0.00312   
## 826 1.005 3.40e-05 0.00249   
## 827 0.992 9.17e-04 0.00352   
## 828 1.006 1.20e-04 0.00427   
## 829 0.992 6.87e-04 0.00285   
## 830 1.005 1.92e-07 0.00193   
## 831 1.005 3.61e-05 0.00302   
## 832 1.001 1.67e-04 0.00247   
## 833 1.003 8.70e-05 0.00242   
## 834 1.006 1.01e-04 0.00413   
## 835 1.006 1.11e-05 0.00309   
## 836 0.996 2.68e-04 0.00181   
## 837 1.005 3.76e-05 0.00314   
## 838 1.004 3.66e-07 0.00161   
## 839 0.998 3.28e-04 0.00262   
## 840 1.006 1.56e-05 0.00324   
## 841 0.988 6.90e-04 0.00228 \*  
## 842 1.004 1.41e-04 0.00351   
## 843 1.003 5.84e-05 0.00195   
## 844 1.004 5.14e-06 0.00157   
## 845 1.005 9.40e-06 0.00252   
## 846 1.006 3.15e-05 0.00379   
## 847 1.005 7.46e-06 0.00205   
## 848 1.004 2.11e-05 0.00197   
## 849 1.005 7.64e-07 0.00260   
## 850 1.007 1.51e-06 0.00388   
## 851 1.004 5.15e-05 0.00241   
## 852 1.004 1.10e-04 0.00294   
## 853 1.005 6.98e-06 0.00255   
## 854 0.996 6.64e-04 0.00355   
## 855 1.006 1.84e-05 0.00300   
## 856 0.996 3.31e-04 0.00213   
## 857 1.006 5.56e-07 0.00326   
## 858 1.006 3.74e-06 0.00292   
## 859 1.004 1.90e-06 0.00122   
## 860 1.006 5.57e-06 0.00359   
## 861 1.001 2.13e-04 0.00255   
## 862 1.003 9.35e-05 0.00261   
## 863 1.002 8.52e-05 0.00167   
## 864 1.002 2.88e-04 0.00370   
## 865 1.007 1.99e-05 0.00477   
## 866 1.004 3.83e-05 0.00191   
## 867 0.995 6.21e-04 0.00328   
## 868 1.006 5.77e-05 0.00433   
## 869 1.006 1.51e-07 0.00351   
## 870 1.004 4.04e-05 0.00242   
## 871 1.006 1.23e-05 0.00294   
## 872 0.997 7.96e-04 0.00442   
## 873 1.005 1.11e-04 0.00402   
## 874 1.002 2.80e-04 0.00343   
## 875 1.000 3.97e-04 0.00370   
## 876 1.007 7.09e-06 0.00432   
## 877 1.006 2.81e-06 0.00304   
## 878 1.004 7.90e-05 0.00274   
## 879 1.002 3.65e-04 0.00435   
## 880 1.005 1.01e-05 0.00234   
## 881 1.002 1.80e-04 0.00267   
## 882 1.005 1.79e-05 0.00284   
## 883 1.006 1.07e-05 0.00357   
## 884 1.004 4.22e-05 0.00204   
## 885 0.997 4.56e-04 0.00296   
## 886 1.001 3.35e-04 0.00369   
## 887 1.003 1.37e-04 0.00279   
## 888 0.994 8.11e-04 0.00356   
## 889 1.005 9.74e-05 0.00374   
## 890 0.997 3.51e-04 0.00245   
## 891 1.000 2.43e-04 0.00256   
## 892 0.998 4.01e-04 0.00300   
## 893 1.005 4.79e-05 0.00316   
## 894 1.002 2.03e-04 0.00289   
## 895 1.005 1.19e-08 0.00254   
## 896 1.005 6.45e-05 0.00309   
## 897 1.002 3.18e-04 0.00372   
## 898 1.004 9.57e-05 0.00304   
## 899 1.004 2.25e-05 0.00178   
## 900 1.003 1.25e-04 0.00275   
## 901 1.001 2.72e-04 0.00296   
## 902 1.005 3.41e-05 0.00264   
## 903 1.006 1.15e-05 0.00293   
## 904 1.004 5.35e-05 0.00269   
## 905 1.001 1.60e-04 0.00221   
## 906 1.005 6.87e-05 0.00344   
## 907 1.005 1.78e-05 0.00221   
## 908 1.006 9.24e-06 0.00298   
## 909 1.001 1.57e-04 0.00233   
## 910 0.999 4.28e-04 0.00340   
## 911 1.006 1.72e-05 0.00347   
## 912 1.004 5.72e-06 0.00157   
## 913 1.006 1.65e-06 0.00292   
## 914 1.003 7.92e-05 0.00242   
## 915 1.002 2.38e-04 0.00312   
## 916 1.006 2.33e-06 0.00328   
## 917 1.000 1.91e-04 0.00209   
## 918 1.002 2.22e-04 0.00305   
## 919 1.006 1.51e-08 0.00274   
## 920 1.004 1.47e-05 0.00156   
## 921 0.998 2.19e-04 0.00186   
## 922 1.006 1.22e-05 0.00304   
## 923 1.003 2.04e-04 0.00337   
## 924 1.007 8.32e-06 0.00390   
## 925 1.003 9.73e-05 0.00262   
## 926 1.001 2.07e-04 0.00253   
## 927 1.006 1.12e-05 0.00297   
## 928 1.003 1.55e-04 0.00315   
## 929 1.002 1.68e-04 0.00255   
## 930 1.006 5.21e-05 0.00417   
## 931 1.006 1.04e-05 0.00297   
## 932 1.004 5.71e-05 0.00248   
## 933 1.005 7.80e-05 0.00366   
## 934 0.995 5.47e-04 0.00283   
## 935 1.001 1.49e-04 0.00229   
## 936 1.004 1.94e-05 0.00211   
## 937 1.004 1.35e-05 0.00159   
## 938 1.005 1.74e-06 0.00219   
## 939 1.005 1.24e-04 0.00366   
## 940 1.000 1.80e-04 0.00199   
## 941 1.006 1.04e-05 0.00321   
## 942 1.004 8.60e-05 0.00308   
## 943 1.002 1.49e-04 0.00235   
## 944 1.004 3.88e-05 0.00238   
## 945 1.000 3.99e-04 0.00359   
## 946 1.002 1.37e-04 0.00219   
## 947 1.005 6.89e-07 0.00191   
## 948 0.998 3.47e-04 0.00275   
## 949 1.000 1.91e-04 0.00216   
## 950 1.005 2.00e-05 0.00248   
## 951 1.005 2.43e-05 0.00265   
## 952 0.997 2.26e-04 0.00162   
## 953 0.997 3.92e-04 0.00255   
## 954 1.005 6.39e-06 0.00259   
## 955 1.004 7.34e-05 0.00249   
## 956 1.006 5.23e-05 0.00407   
## 957 1.002 1.80e-04 0.00268   
## 958 1.005 2.10e-04 0.00494   
## 959 1.004 1.43e-05 0.00163   
## 960 1.005 2.14e-04 0.00469   
## 961 1.007 5.48e-08 0.00429   
## 962 0.998 2.14e-04 0.00175   
## 963 1.003 3.52e-04 0.00478   
## 964 0.990 3.98e-04 0.00161 \*  
## 965 1.005 2.23e-05 0.00223   
## 966 1.005 4.17e-05 0.00295   
## 967 1.004 3.81e-05 0.00213   
## 968 1.003 9.49e-05 0.00243   
## 969 1.004 1.00e-04 0.00323   
## 970 1.006 7.07e-06 0.00355   
## 971 0.998 6.26e-04 0.00393   
## 972 1.006 5.97e-08 0.00317   
## 973 0.988 9.39e-04 0.00296 \*  
## 974 1.001 7.52e-05 0.00129   
## 975 0.998 1.90e-04 0.00176   
## 976 0.996 3.76e-04 0.00229   
## 977 1.005 3.35e-06 0.00267   
## 978 1.005 2.27e-05 0.00233   
## 979 1.005 4.10e-07 0.00169   
## 980 1.005 1.43e-05 0.00233   
## 981 1.004 5.83e-05 0.00218   
## 982 1.005 8.06e-06 0.00275   
## 983 1.000 2.34e-04 0.00257   
## 984 1.004 6.61e-05 0.00231   
## 985 1.005 2.58e-05 0.00266   
## 986 1.005 6.69e-06 0.00232   
## 987 1.004 1.46e-07 0.00131   
## 988 1.007 7.15e-06 0.00401   
## 989 1.005 3.05e-07 0.00222   
## 990 1.005 4.35e-06 0.00249   
## 991 1.006 1.49e-05 0.00323   
## 992 1.005 2.67e-06 0.00235   
## 993 0.997 4.85e-04 0.00300   
## 994 0.998 2.21e-04 0.00182   
## 995 1.004 3.59e-05 0.00245   
## 996 1.006 1.20e-05 0.00298   
## 997 1.002 1.70e-04 0.00291   
## 998 1.003 8.37e-05 0.00221   
## 999 1.001 1.35e-04 0.00209   
## 1000 0.999 2.25e-04 0.00202   
## 1001 1.005 4.09e-08 0.00176   
## 1002 1.004 1.06e-05 0.00160   
## 1003 1.001 1.69e-04 0.00247   
## 1004 1.002 1.87e-04 0.00266   
## 1005 1.000 1.15e-04 0.00152   
## 1006 1.000 2.71e-04 0.00271   
## 1007 1.005 3.31e-05 0.00267   
## 1008 1.003 8.88e-05 0.00210   
## 1009 1.007 6.18e-06 0.00430   
## 1010 0.999 3.84e-04 0.00306   
## 1011 1.003 8.35e-05 0.00215   
## 1012 0.996 5.86e-04 0.00323   
## 1013 0.995 6.04e-04 0.00322   
## 1014 1.006 1.03e-05 0.00332   
## 1015 1.006 2.36e-06 0.00305   
## 1016 1.003 2.29e-04 0.00354   
## 1017 1.004 2.19e-05 0.00189   
## 1018 1.005 1.14e-05 0.00272   
## 1019 1.005 7.12e-06 0.00277   
## 1020 0.997 4.71e-04 0.00302   
## 1021 1.002 2.32e-04 0.00333   
## 1022 1.002 1.35e-04 0.00219   
## 1023 1.006 1.06e-05 0.00344   
## 1024 1.005 5.11e-05 0.00274   
## 1025 1.005 6.57e-05 0.00312   
## 1026 1.001 1.69e-04 0.00221   
## 1027 1.004 3.65e-04 0.00521   
## 1028 1.004 9.50e-05 0.00304   
## 1029 1.006 1.00e-04 0.00405   
## 1030 1.004 8.98e-05 0.00269   
## 1031 1.005 1.31e-06 0.00265   
## 1032 1.005 2.44e-05 0.00298   
## 1033 1.006 9.50e-07 0.00298   
## 1034 1.005 2.85e-09 0.00236   
## 1035 1.002 2.31e-04 0.00334   
## 1036 1.004 1.00e-04 0.00325   
## 1037 0.996 4.83e-04 0.00283   
## 1038 1.003 1.48e-04 0.00293   
## 1039 1.005 1.12e-05 0.00276   
## 1040 1.001 1.56e-04 0.00212   
## 1041 0.998 3.26e-04 0.00244   
## 1042 1.005 2.15e-05 0.00279   
## 1043 1.001 1.69e-04 0.00244   
## 1044 1.006 2.35e-07 0.00308   
## 1045 1.003 9.13e-05 0.00216   
## 1046 1.004 8.20e-06 0.00158   
## 1047 0.992 4.19e-04 0.00181   
## 1048 1.001 5.17e-04 0.00447   
## 1049 1.003 2.27e-04 0.00364   
## 1050 1.004 6.99e-05 0.00290   
## 1051 1.000 4.20e-04 0.00355   
## 1052 1.000 1.86e-04 0.00227   
## 1053 1.004 1.76e-06 0.00144   
## 1054 1.002 8.77e-05 0.00184   
## 1055 1.002 2.02e-04 0.00287   
## 1056 1.004 1.22e-04 0.00301   
## 1057 1.001 2.10e-04 0.00266   
## 1058 1.005 5.45e-06 0.00208   
## 1059 1.006 2.72e-05 0.00339   
## 1060 1.006 2.28e-05 0.00334   
## 1061 1.006 6.00e-05 0.00360   
## 1062 1.005 1.97e-05 0.00235   
## 1063 1.001 2.59e-04 0.00294   
## 1064 1.005 3.74e-07 0.00215   
## 1065 1.003 1.95e-04 0.00359   
## 1066 0.998 3.08e-04 0.00244   
## 1067 1.006 3.36e-05 0.00354   
## 1068 1.000 1.71e-04 0.00215   
## 1069 0.997 3.16e-04 0.00222   
## 1070 1.006 1.01e-04 0.00451   
## 1071 1.004 9.22e-05 0.00276   
## 1072 1.004 2.43e-05 0.00174   
## 1073 1.006 7.56e-05 0.00382   
## 1074 1.005 2.01e-06 0.00240   
## 1075 0.997 4.61e-04 0.00286   
## 1076 1.005 8.99e-05 0.00374   
## 1077 0.998 2.10e-04 0.00187   
## 1078 1.005 2.09e-06 0.00239   
## 1079 1.000 2.04e-04 0.00230   
## 1080 1.002 8.13e-05 0.00192   
## 1081 1.005 4.19e-07 0.00178   
## 1082 1.002 1.64e-04 0.00256   
## 1083 1.003 1.62e-04 0.00332   
## 1084 1.004 1.19e-04 0.00352   
## 1085 1.004 7.94e-05 0.00260   
## 1086 0.998 1.67e-04 0.00146   
## 1087 1.005 3.66e-05 0.00269   
## 1088 1.004 5.64e-05 0.00278   
## 1089 1.005 4.74e-05 0.00270   
## 1090 1.007 1.66e-06 0.00377   
## 1091 1.006 2.51e-05 0.00360   
## 1092 0.996 2.88e-04 0.00189   
## 1093 1.005 1.52e-04 0.00437   
## 1094 1.000 2.14e-04 0.00241   
## 1095 1.006 1.34e-07 0.00327   
## 1096 1.003 1.62e-04 0.00320   
## 1097 1.005 5.27e-05 0.00284   
## 1098 1.004 7.97e-06 0.00179   
## 1099 0.998 4.76e-04 0.00329   
## 1100 1.004 5.70e-05 0.00244   
## 1101 1.005 4.69e-06 0.00189   
## 1102 0.998 3.05e-04 0.00233   
## 1103 1.006 3.44e-05 0.00370   
## 1104 1.006 3.20e-06 0.00285   
## 1105 1.006 2.35e-06 0.00271   
## 1106 1.005 5.39e-05 0.00307   
## 1107 1.007 5.66e-07 0.00428   
## 1108 1.002 3.92e-04 0.00446   
## 1109 1.007 7.39e-06 0.00393   
## 1110 0.999 2.70e-04 0.00241   
## 1111 0.999 2.11e-04 0.00215   
## 1112 1.006 1.90e-05 0.00332   
## 1113 1.004 1.32e-05 0.00190   
## 1114 1.004 9.92e-05 0.00326   
## 1115 1.003 1.12e-04 0.00272   
## 1116 1.006 5.86e-06 0.00346   
## 1117 1.001 1.20e-04 0.00179   
## 1118 1.005 9.08e-06 0.00256   
## 1119 1.000 3.91e-04 0.00337   
## 1120 1.006 2.07e-05 0.00331   
## 1121 1.003 8.68e-05 0.00252   
## 1122 1.000 1.77e-04 0.00220   
## 1123 1.000 2.01e-04 0.00238   
## 1124 1.006 1.34e-05 0.00315   
## 1125 1.004 1.60e-05 0.00180   
## 1126 1.001 2.33e-04 0.00275   
## 1127 1.005 1.51e-06 0.00222   
## 1128 0.999 5.34e-04 0.00394   
## 1129 1.005 1.55e-04 0.00407   
## 1130 1.005 2.06e-05 0.00233   
## 1131 1.004 1.12e-04 0.00303   
## 1132 1.006 2.07e-06 0.00302   
## 1133 1.005 6.48e-06 0.00206   
## 1134 1.006 1.24e-05 0.00304   
## 1135 1.004 1.96e-04 0.00393   
## 1136 1.005 2.74e-05 0.00285   
## 1137 1.007 6.82e-05 0.00510   
## 1138 1.004 3.72e-05 0.00247   
## 1139 0.998 3.72e-04 0.00270   
## 1140 1.004 1.05e-04 0.00296   
## 1141 1.001 2.88e-04 0.00321   
## 1142 1.003 1.38e-04 0.00289   
## 1143 1.006 2.50e-05 0.00339   
## 1144 1.000 2.46e-04 0.00264   
## 1145 1.004 4.00e-05 0.00210   
## 1146 1.003 1.39e-04 0.00284   
## 1147 1.004 1.43e-04 0.00371   
## 1148 1.004 2.06e-05 0.00183   
## 1149 1.002 1.34e-04 0.00253   
## 1150 1.007 1.49e-05 0.00387   
## 1151 1.005 1.35e-06 0.00245   
## 1152 1.006 7.66e-06 0.00329   
## 1153 1.005 1.17e-06 0.00219   
## 1154 1.004 9.89e-05 0.00289   
## 1155 1.005 7.31e-05 0.00320   
## 1156 1.004 9.07e-05 0.00285   
## 1157 1.000 3.64e-04 0.00327   
## 1158 1.000 4.81e-04 0.00390   
## 1159 1.006 4.38e-06 0.00352   
## 1160 1.003 1.50e-04 0.00280   
## 1161 1.006 3.79e-06 0.00338   
## 1162 1.004 1.90e-06 0.00124   
## 1163 1.002 1.26e-04 0.00245   
## 1164 1.003 8.14e-05 0.00233   
## 1165 1.005 1.19e-05 0.00221   
## 1166 1.007 6.67e-05 0.00509   
## 1167 1.005 9.60e-08 0.00234   
## 1168 0.995 5.60e-04 0.00289   
## 1169 0.999 3.24e-04 0.00279   
## 1170 0.993 4.24e-04 0.00203   
## 1171 1.004 1.28e-04 0.00304   
## 1172 0.999 2.21e-04 0.00224   
## 1173 1.004 1.72e-04 0.00393   
## 1174 1.006 2.19e-05 0.00379   
## 1175 1.002 1.79e-04 0.00262   
## 1176 1.003 2.10e-04 0.00346   
## 1177 1.006 7.33e-06 0.00337   
## 1178 0.999 5.23e-04 0.00398   
## 1179 1.006 8.12e-05 0.00450   
## 1180 1.004 7.70e-05 0.00295   
## 1181 1.002 2.77e-04 0.00367   
## 1182 1.001 2.16e-04 0.00267   
## 1183 1.006 1.10e-06 0.00302   
## 1184 1.007 6.87e-05 0.00474   
## 1185 1.002 1.08e-04 0.00222   
## 1186 0.999 3.52e-04 0.00291   
## 1187 1.002 1.40e-04 0.00253   
## 1188 1.006 5.67e-07 0.00333   
## 1189 1.003 9.71e-05 0.00258   
## 1190 1.006 6.09e-06 0.00341   
## 1191 1.003 5.75e-05 0.00209   
## 1192 1.003 2.10e-04 0.00368   
## 1193 1.006 6.39e-06 0.00297   
## 1194 1.005 2.91e-05 0.00245   
## 1195 1.005 7.29e-07 0.00225   
## 1196 1.001 2.03e-04 0.00277   
## 1197 1.002 1.22e-04 0.00226   
## 1198 1.003 7.77e-05 0.00198   
## 1199 0.996 4.94e-04 0.00280   
## 1200 1.006 4.41e-08 0.00273   
## 1201 1.004 1.07e-04 0.00318   
## 1202 1.002 6.52e-05 0.00154   
## 1203 0.997 1.60e-04 0.00130   
## 1204 1.003 1.84e-04 0.00345   
## 1205 1.002 7.76e-05 0.00187   
## 1206 1.005 4.12e-05 0.00290   
## 1207 0.999 1.70e-04 0.00180   
## 1208 0.999 4.41e-04 0.00347   
## 1209 0.998 1.39e-04 0.00126   
## 1210 1.005 1.31e-05 0.00252   
## 1211 1.002 1.28e-04 0.00226   
## 1212 1.003 1.24e-04 0.00249   
## 1213 1.004 3.20e-06 0.00166   
## 1214 1.006 3.51e-06 0.00286   
## 1215 1.001 1.65e-04 0.00217   
## 1216 1.006 7.41e-05 0.00394   
## 1217 1.004 1.32e-04 0.00358   
## 1218 1.002 1.70e-04 0.00274   
## 1219 1.006 2.62e-05 0.00345   
## 1220 1.002 6.31e-05 0.00155   
## 1221 0.998 3.03e-04 0.00231   
## 1222 1.000 4.34e-04 0.00383   
## 1223 1.006 4.75e-06 0.00289   
## 1224 1.005 9.65e-05 0.00343   
## 1225 1.003 1.91e-04 0.00322   
## 1226 1.006 6.44e-06 0.00297   
## 1227 1.004 1.10e-04 0.00305   
## 1228 1.005 6.20e-05 0.00316   
## 1229 0.998 3.81e-04 0.00282   
## 1230 1.005 6.06e-06 0.00262   
## 1231 1.006 2.40e-05 0.00363   
## 1232 1.006 6.80e-05 0.00370   
## 1233 1.002 6.48e-05 0.00157   
## 1234 1.004 6.11e-06 0.00141   
## 1235 1.004 5.38e-05 0.00213   
## 1236 1.003 1.82e-04 0.00332   
## 1237 1.004 2.05e-05 0.00189   
## 1238 1.004 1.25e-04 0.00336   
## 1239 1.005 8.21e-05 0.00341   
## 1240 0.996 2.53e-04 0.00170   
## 1241 0.990 5.91e-04 0.00220 \*  
## 1242 0.997 3.37e-04 0.00245   
## 1243 1.003 1.31e-04 0.00275   
## 1244 1.004 1.52e-04 0.00347   
## 1245 1.002 2.32e-04 0.00319   
## 1246 0.996 2.63e-04 0.00180   
## 1247 1.005 2.92e-05 0.00300   
## 1248 1.001 1.72e-04 0.00226   
## 1249 1.004 2.04e-05 0.00180   
## 1250 1.002 9.33e-05 0.00182   
## 1251 1.007 4.17e-05 0.00457   
## 1252 0.999 4.35e-04 0.00326   
## 1253 1.005 4.99e-06 0.00242   
## 1254 1.006 1.35e-04 0.00439   
## 1255 1.005 2.71e-07 0.00192   
## 1256 0.998 5.30e-04 0.00350   
## 1257 1.002 1.15e-04 0.00216   
## 1258 1.002 2.93e-04 0.00351   
## 1259 1.003 1.07e-04 0.00249   
## 1260 0.997 6.14e-04 0.00359   
## 1261 1.007 1.05e-05 0.00400   
## 1262 1.007 9.07e-05 0.00527   
## 1263 0.998 4.30e-04 0.00296   
## 1264 1.006 3.38e-08 0.00332   
## 1265 0.993 4.69e-04 0.00221   
## 1266 1.005 7.26e-13 0.00252   
## 1267 1.005 2.67e-06 0.00211   
## 1268 1.007 7.94e-06 0.00385   
## 1269 1.004 1.76e-05 0.00209   
## 1270 1.004 1.25e-04 0.00334   
## 1271 1.006 3.71e-05 0.00389   
## 1272 1.006 1.79e-05 0.00329   
## 1273 1.007 2.60e-09 0.00433   
## 1274 1.006 4.39e-06 0.00300   
## 1275 1.006 2.61e-05 0.00343   
## 1276 1.005 1.16e-05 0.00232   
## 1277 1.006 2.28e-06 0.00300   
## 1278 1.005 4.36e-06 0.00191   
## 1279 1.000 2.30e-04 0.00254   
## 1280 1.006 2.03e-05 0.00337   
## 1281 1.005 4.55e-06 0.00223   
## 1282 1.004 7.54e-05 0.00267   
## 1283 1.004 1.46e-04 0.00335   
## 1284 1.002 1.95e-04 0.00280   
## 1285 1.006 4.46e-06 0.00280   
## 1286 1.006 1.16e-05 0.00298   
## 1287 1.006 4.91e-07 0.00358   
## 1288 1.000 2.96e-04 0.00278   
## 1289 1.006 5.50e-07 0.00296   
## 1290 1.005 6.28e-06 0.00266   
## 1291 0.995 2.67e-04 0.00167   
## 1292 1.006 2.19e-06 0.00308   
## 1293 1.000 3.42e-04 0.00338   
## 1294 0.998 2.25e-04 0.00183   
## 1295 1.006 8.07e-05 0.00405   
## 1296 0.997 3.22e-04 0.00221   
## 1297 1.005 5.55e-06 0.00257   
## 1298 1.005 2.38e-05 0.00272   
## 1299 1.006 3.76e-06 0.00306   
## 1300 1.005 1.37e-05 0.00252   
## 1301 1.004 1.16e-04 0.00291   
## 1302 1.004 1.12e-04 0.00329   
## 1303 0.986 9.71e-04 0.00281 \*  
## 1304 1.006 1.20e-05 0.00313   
## 1305 1.003 8.15e-05 0.00235   
## 1306 1.002 9.69e-05 0.00183   
## 1307 1.001 1.24e-04 0.00198   
## 1308 1.006 6.81e-05 0.00378   
## 1309 1.006 9.86e-06 0.00320   
## 1310 0.997 3.64e-04 0.00245   
## 1311 0.995 5.67e-04 0.00302   
## 1312 1.005 2.45e-06 0.00257   
## 1313 1.004 3.35e-05 0.00189   
## 1314 1.004 5.09e-05 0.00240   
## 1315 1.003 1.51e-04 0.00305   
## 1316 0.993 5.81e-04 0.00265   
## 1317 1.005 8.87e-05 0.00376   
## 1318 1.005 1.14e-05 0.00282   
## 1319 1.005 4.25e-05 0.00302   
## 1320 1.006 1.08e-07 0.00315   
## 1321 0.991 5.20e-04 0.00212 \*  
## 1322 1.002 8.54e-05 0.00190   
## 1323 1.007 1.99e-05 0.00407   
## 1324 0.995 4.04e-04 0.00235   
## 1325 1.005 4.15e-05 0.00318   
## 1326 1.006 1.33e-05 0.00295   
## 1327 1.005 2.20e-05 0.00272   
## 1328 1.002 2.14e-04 0.00301   
## 1329 1.006 4.65e-06 0.00285   
## 1330 1.007 2.12e-05 0.00397   
## 1331 1.001 3.35e-04 0.00364   
## 1332 0.997 2.22e-04 0.00176   
## 1333 1.002 2.10e-04 0.00303   
## 1334 1.005 1.15e-08 0.00205   
## 1335 0.992 4.10e-04 0.00178   
## 1336 0.995 5.29e-04 0.00278   
## 1337 0.999 3.75e-04 0.00307   
## 1338 1.005 7.41e-06 0.00252   
## 1339 1.006 6.41e-07 0.00327   
## 1340 1.005 1.25e-05 0.00219   
## 1341 1.003 8.50e-05 0.00225   
## 1342 1.002 1.70e-04 0.00280   
## 1343 1.005 9.77e-06 0.00242   
## 1344 1.002 1.32e-04 0.00230   
## 1345 1.005 1.52e-04 0.00414   
## 1346 1.007 6.00e-06 0.00376   
## 1347 1.004 2.59e-05 0.00212   
## 1348 1.006 8.31e-06 0.00344   
## 1349 1.006 5.70e-08 0.00293   
## 1350 1.001 1.95e-04 0.00259   
## 1351 1.004 2.86e-05 0.00180   
## 1352 0.997 2.00e-04 0.00152   
## 1353 1.003 1.11e-04 0.00269   
## 1354 0.999 1.56e-04 0.00173   
## 1355 1.003 5.16e-05 0.00182   
## 1356 1.004 5.10e-05 0.00217   
## 1357 1.001 1.68e-04 0.00241   
## 1358 1.001 7.92e-05 0.00129   
## 1359 1.005 1.50e-05 0.00218   
## 1360 1.005 5.72e-06 0.00222   
## 1361 0.996 9.56e-04 0.00473   
## 1362 1.003 9.54e-05 0.00240   
## 1363 1.003 1.32e-04 0.00297   
## 1364 1.006 5.27e-06 0.00336   
## 1365 1.005 6.36e-05 0.00289   
## 1366 1.005 4.04e-06 0.00251   
## 1367 1.004 7.86e-05 0.00247   
## 1368 1.001 2.61e-04 0.00288   
## 1369 1.005 2.27e-05 0.00233   
## 1370 1.006 5.57e-08 0.00288   
## 1371 1.005 2.65e-08 0.00221   
## 1372 1.000 3.34e-04 0.00315   
## 1373 1.005 3.26e-05 0.00256   
## 1374 1.006 4.41e-05 0.00386   
## 1375 1.007 7.27e-06 0.00419   
## 1376 1.006 1.94e-05 0.00322   
## 1377 0.998 1.87e-04 0.00173   
## 1378 1.005 2.24e-06 0.00213   
## 1379 0.999 2.92e-04 0.00270   
## 1380 0.999 1.75e-04 0.00185   
## 1381 1.005 2.55e-05 0.00280   
## 1382 1.006 8.70e-07 0.00276   
## 1383 1.005 7.79e-06 0.00279   
## 1384 1.004 1.49e-04 0.00326   
## 1385 1.001 2.30e-04 0.00285   
## 1386 1.006 3.02e-05 0.00334   
## 1387 1.001 2.09e-04 0.00266   
## 1388 1.004 3.16e-07 0.00130   
## 1389 1.004 2.46e-05 0.00178   
## 1390 1.004 2.72e-05 0.00225   
## 1391 0.996 5.15e-04 0.00292   
## 1392 0.995 4.22e-04 0.00239   
## 1393 0.998 3.27e-04 0.00247   
## 1394 1.002 1.69e-04 0.00284   
## 1395 1.004 4.71e-06 0.00163   
## 1396 1.005 2.08e-05 0.00226   
## 1397 1.005 1.09e-04 0.00362   
## 1398 1.000 4.58e-04 0.00380   
## 1399 1.000 1.91e-04 0.00227   
## 1400 1.005 1.10e-06 0.00243   
## 1401 1.002 9.96e-05 0.00191   
## 1402 1.006 3.15e-07 0.00328   
## 1403 1.007 1.32e-04 0.00588   
## 1404 1.005 2.74e-05 0.00289   
## 1405 1.002 1.90e-04 0.00306   
## 1406 1.005 3.29e-05 0.00256   
## 1407 1.000 3.09e-04 0.00301   
## 1408 1.002 1.85e-04 0.00270   
## 1409 1.006 4.40e-06 0.00297   
## 1410 1.003 1.66e-04 0.00331   
## 1411 1.006 2.57e-05 0.00337   
## 1412 1.006 1.96e-05 0.00353   
## 1413 1.003 1.29e-04 0.00287   
## 1414 1.006 6.50e-05 0.00388   
## 1415 1.006 1.40e-06 0.00290   
## 1416 1.003 1.18e-04 0.00270   
## 1417 1.004 7.65e-05 0.00246   
## 1418 1.005 3.46e-08 0.00212   
## 1419 1.003 8.81e-05 0.00241   
## 1420 1.005 1.72e-09 0.00246   
## 1421 1.003 1.88e-04 0.00336   
## 1422 1.006 3.83e-06 0.00357   
## 1423 1.004 1.53e-04 0.00348   
## 1424 0.999 2.11e-04 0.00207   
## 1425 1.005 7.22e-08 0.00215   
## 1426 1.004 1.02e-05 0.00179   
## 1427 1.006 4.41e-05 0.00347   
## 1428 1.005 5.05e-06 0.00230   
## 1429 1.005 1.22e-04 0.00410   
## 1430 1.003 1.25e-04 0.00288   
## 1431 1.005 7.46e-05 0.00312   
## 1432 1.004 7.99e-05 0.00276   
## 1433 1.003 7.92e-05 0.00246   
## 1434 1.005 4.22e-05 0.00303   
## 1435 1.003 1.40e-04 0.00274   
## 1436 1.005 5.80e-06 0.00199   
## 1437 1.003 1.15e-04 0.00251   
## 1438 1.005 3.99e-05 0.00311   
## 1439 1.004 1.43e-04 0.00337   
## 1440 1.006 4.19e-05 0.00359   
## 1441 0.999 3.08e-04 0.00259   
## 1442 1.002 1.87e-04 0.00278   
## 1443 1.002 3.19e-04 0.00367   
## 1444 1.004 8.70e-06 0.00148   
## 1445 1.006 5.21e-05 0.00350   
## 1446 1.004 3.12e-05 0.00231   
## 1447 1.005 1.42e-04 0.00380   
## 1448 1.006 1.74e-04 0.00496   
## 1449 1.000 1.80e-04 0.00213   
## 1450 1.005 1.64e-05 0.00224   
## 1451 1.005 8.25e-05 0.00377   
## 1452 1.003 1.09e-04 0.00261   
## 1453 1.002 1.19e-04 0.00218   
## 1454 0.991 4.09e-04 0.00175 \*  
## 1455 1.005 4.61e-05 0.00322   
## 1456 1.003 1.57e-04 0.00290   
## 1457 1.004 2.35e-04 0.00400   
## 1458 1.005 2.05e-06 0.00175   
## 1459 1.000 1.20e-04 0.00158   
## 1460 1.005 7.87e-05 0.00312   
## 1461 1.001 2.49e-04 0.00288   
## 1462 1.004 6.13e-05 0.00234   
## 1463 1.003 1.39e-04 0.00312   
## 1464 1.005 3.07e-05 0.00309   
## 1465 0.999 4.03e-04 0.00320   
## 1466 1.004 1.70e-05 0.00166   
## 1467 1.002 2.16e-04 0.00293   
## 1468 1.001 1.36e-04 0.00197   
## 1469 1.001 1.01e-04 0.00180   
## 1470 1.003 1.39e-04 0.00303   
## 1471 1.006 2.69e-05 0.00387   
## 1472 1.004 2.22e-05 0.00174   
## 1473 0.993 6.15e-04 0.00275   
## 1474 0.999 2.01e-04 0.00193   
## 1475 1.004 1.13e-04 0.00325   
## 1476 1.006 3.62e-05 0.00379   
## 1477 1.006 3.67e-06 0.00291   
## 1478 0.996 4.46e-04 0.00261   
## 1479 1.006 3.74e-08 0.00290   
## 1480 1.006 3.89e-05 0.00401   
## 1481 1.003 6.82e-05 0.00206   
## 1482 0.996 4.22e-04 0.00256   
## 1483 1.003 7.70e-05 0.00202   
## 1484 1.003 7.08e-05 0.00205   
## 1485 1.006 1.04e-05 0.00286   
## 1486 1.006 2.95e-05 0.00391   
## 1487 1.004 2.36e-05 0.00182   
## 1488 1.002 1.41e-04 0.00264   
## 1489 1.002 2.45e-04 0.00321   
## 1490 0.991 5.55e-04 0.00222 \*  
## 1491 1.006 5.18e-05 0.00371   
## 1492 1.004 3.62e-05 0.00194   
## 1493 1.005 4.41e-05 0.00329   
## 1494 1.002 1.44e-04 0.00231   
## 1495 1.004 1.22e-04 0.00335   
## 1496 1.004 1.59e-04 0.00363   
## 1497 1.005 4.24e-06 0.00224   
## 1498 1.005 2.31e-05 0.00280   
## 1499 1.001 1.96e-04 0.00259   
## 1500 0.999 1.34e-04 0.00142   
## 1501 1.003 6.42e-05 0.00205   
## 1502 1.007 9.06e-06 0.00410   
## 1503 1.005 1.88e-06 0.00189   
## 1504 1.002 3.50e-04 0.00407   
## 1505 1.000 1.72e-04 0.00204   
## 1506 1.005 2.50e-05 0.00260   
## 1507 1.005 5.05e-06 0.00271   
## 1508 0.998 3.06e-04 0.00230   
## 1509 1.002 3.27e-04 0.00373   
## 1510 1.005 9.81e-06 0.00277   
## 1511 1.005 4.16e-05 0.00307   
## 1512 0.998 3.30e-04 0.00256   
## 1513 1.004 9.07e-05 0.00273   
## 1514 1.004 1.98e-05 0.00188   
## 1515 1.000 5.16e-04 0.00408   
## 1516 1.004 5.35e-05 0.00265   
## 1517 1.006 9.38e-07 0.00281   
## 1518 0.994 8.15e-04 0.00372   
## 1519 1.003 6.50e-05 0.00180   
## 1520 1.005 5.18e-05 0.00289   
## 1521 1.004 1.85e-05 0.00203   
## 1522 0.998 4.47e-04 0.00313   
## 1523 1.005 1.57e-05 0.00268   
## 1524 1.002 1.24e-04 0.00233   
## 1525 1.005 4.93e-06 0.00244   
## 1526 1.002 3.71e-04 0.00427   
## 1527 1.005 2.90e-05 0.00256   
## 1528 1.004 1.12e-05 0.00172   
## 1529 1.000 2.20e-04 0.00226   
## 1530 1.005 1.13e-05 0.00231   
## 1531 1.006 1.43e-04 0.00462   
## 1532 1.005 3.35e-05 0.00280   
## 1533 1.006 6.29e-07 0.00327   
## 1534 1.004 1.30e-04 0.00314   
## 1535 1.004 5.89e-05 0.00236   
## 1536 1.006 4.71e-05 0.00365   
## 1537 1.006 1.35e-05 0.00305   
## 1538 1.005 9.61e-07 0.00199   
## 1539 1.001 1.67e-04 0.00214   
## 1540 1.004 8.77e-05 0.00311   
## 1541 1.005 4.26e-05 0.00282   
## 1542 1.005 4.36e-06 0.00239   
## 1543 0.995 4.28e-04 0.00229   
## 1544 1.003 1.77e-04 0.00343   
## 1545 0.998 2.13e-04 0.00175   
## 1546 0.997 5.01e-04 0.00305   
## 1547 1.005 9.47e-06 0.00250   
## 1548 1.006 3.76e-05 0.00412   
## 1549 1.005 1.14e-04 0.00375   
## 1550 1.004 9.99e-06 0.00168   
## 1551 0.993 6.24e-04 0.00280   
## 1552 1.003 2.87e-04 0.00388   
## 1553 1.004 8.84e-05 0.00297   
## 1554 1.002 1.68e-04 0.00281   
## 1555 1.004 2.35e-05 0.00176   
## 1556 1.007 1.53e-05 0.00466   
## 1557 1.002 6.51e-05 0.00154   
## 1558 1.006 8.21e-05 0.00397   
## 1559 0.998 2.59e-04 0.00221   
## 1560 1.004 4.49e-05 0.00231   
## 1561 1.005 8.34e-05 0.00328   
## 1562 1.006 9.97e-07 0.00351   
## 1563 1.002 2.27e-04 0.00322   
## 1564 0.998 6.78e-04 0.00413   
## 1565 1.003 6.28e-05 0.00216   
## 1566 1.005 2.89e-08 0.00233   
## 1567 1.005 2.30e-05 0.00232   
## 1568 0.998 3.45e-04 0.00267   
## 1569 1.005 5.45e-05 0.00319   
## 1570 1.005 5.15e-06 0.00184   
## 1571 0.993 9.65e-04 0.00405   
## 1572 1.007 9.36e-08 0.00426   
## 1573 0.999 4.53e-04 0.00357   
## 1574 0.998 3.77e-04 0.00277   
## 1575 1.003 1.19e-04 0.00268   
## 1576 1.005 2.06e-04 0.00482   
## 1577 1.004 1.15e-04 0.00349   
## 1578 1.006 5.39e-06 0.00352   
## 1579 1.002 1.56e-04 0.00268   
## 1580 1.007 5.59e-05 0.00476   
## 1581 1.006 1.83e-05 0.00310   
## 1582 1.006 1.13e-06 0.00288   
## 1583 1.005 1.26e-07 0.00211   
## 1584 1.003 1.38e-04 0.00289   
## 1585 1.003 2.89e-04 0.00394   
## 1586 1.005 6.58e-06 0.00210   
## 1587 1.004 1.10e-05 0.00164   
## 1588 0.998 3.88e-04 0.00277   
## 1589 1.005 1.75e-05 0.00215   
## 1590 1.006 3.46e-06 0.00302   
## 1591 1.002 1.29e-04 0.00250   
## 1592 0.998 2.44e-04 0.00192   
## 1593 1.006 5.46e-05 0.00362   
## 1594 1.005 1.01e-07 0.00253   
## 1595 1.006 8.03e-06 0.00289   
## 1596 1.005 7.38e-05 0.00328   
## 1597 1.003 1.12e-04 0.00256   
## 1598 1.000 1.50e-04 0.00188   
## 1599 0.998 4.75e-04 0.00345   
## 1600 1.006 1.80e-05 0.00327   
## 1601 1.006 1.05e-06 0.00276   
## 1602 1.007 8.88e-07 0.00428   
## 1603 1.003 3.50e-04 0.00450   
## 1604 1.004 1.44e-05 0.00162   
## 1605 1.004 5.27e-05 0.00235   
## 1606 1.005 1.57e-05 0.00250   
## 1607 1.005 6.96e-06 0.00210   
## 1608 0.991 9.29e-04 0.00339 \*  
## 1609 1.005 6.93e-06 0.00199   
## 1610 1.007 4.89e-07 0.00433   
## 1611 1.005 2.45e-06 0.00240   
## 1612 1.005 1.82e-07 0.00235   
## 1613 1.005 5.40e-05 0.00313   
## 1614 1.002 1.52e-04 0.00259   
## 1615 1.005 8.74e-06 0.00271   
## 1616 1.006 1.33e-04 0.00458   
## 1617 1.000 1.70e-04 0.00206   
## 1618 1.006 2.79e-07 0.00346   
## 1619 1.004 8.66e-05 0.00304   
## 1620 0.996 3.59e-04 0.00225   
## 1621 1.002 2.21e-04 0.00298   
## 1622 1.005 3.94e-05 0.00317   
## 1623 0.999 2.03e-04 0.00201   
## 1624 0.999 3.05e-04 0.00266   
## 1625 1.006 1.75e-05 0.00360   
## 1626 1.000 2.14e-04 0.00227   
## 1627 1.002 2.89e-04 0.00385   
## 1628 0.997 2.55e-04 0.00180   
## 1629 1.002 7.36e-05 0.00175   
## 1630 1.007 2.64e-07 0.00375   
## 1631 1.002 2.28e-04 0.00305   
## 1632 1.005 1.77e-06 0.00225   
## 1633 1.007 6.48e-06 0.00437   
## 1634 1.006 1.42e-05 0.00331   
## 1635 0.998 3.30e-04 0.00247   
## 1636 1.004 9.33e-06 0.00187   
## 1637 1.005 1.10e-05 0.00226   
## 1638 1.005 1.13e-05 0.00223   
## 1639 1.004 1.59e-04 0.00337   
## 1640 1.000 2.96e-04 0.00294   
## 1641 1.001 2.22e-04 0.00267   
## 1642 1.006 3.90e-06 0.00310   
## 1643 1.002 1.95e-04 0.00275   
## 1644 1.005 1.19e-04 0.00401   
## 1645 1.005 5.17e-05 0.00274   
## 1646 1.004 9.88e-05 0.00273   
## 1647 1.003 8.10e-05 0.00247   
## 1648 1.005 1.08e-04 0.00403   
## 1649 1.005 1.69e-06 0.00254   
## 1650 1.005 1.08e-05 0.00223   
## 1651 0.996 3.80e-04 0.00236   
## 1652 1.005 4.77e-05 0.00338   
## 1653 1.004 3.16e-05 0.00235   
## 1654 0.996 5.87e-04 0.00323   
## 1655 1.006 7.40e-06 0.00351   
## 1656 1.006 1.34e-05 0.00299   
## 1657 1.003 1.24e-04 0.00291   
## 1658 1.000 8.15e-05 0.00127   
## 1659 0.999 2.65e-04 0.00239   
## 1660 0.999 3.54e-04 0.00294   
## 1661 0.996 2.08e-04 0.00149   
## 1662 1.005 7.48e-06 0.00253   
## 1663 1.004 3.41e-05 0.00232   
## 1664 1.003 8.94e-05 0.00259   
## 1665 0.997 2.01e-04 0.00152   
## 1666 1.001 5.01e-04 0.00433   
## 1667 1.006 5.52e-06 0.00314   
## 1668 1.004 3.35e-05 0.00238   
## 1669 0.996 4.89e-04 0.00296   
## 1670 1.005 5.73e-06 0.00252   
## 1671 0.999 1.93e-04 0.00203   
## 1672 0.998 2.89e-04 0.00236   
## 1673 1.006 2.10e-05 0.00347   
## 1674 1.006 1.59e-05 0.00319   
## 1675 1.003 2.24e-04 0.00368   
## 1676 1.006 4.31e-06 0.00274   
## 1677 1.006 3.33e-06 0.00274   
## 1678 1.006 2.42e-07 0.00298   
## 1679 1.005 2.82e-08 0.00189   
## 1680 1.005 8.26e-05 0.00350   
## 1681 1.000 2.12e-04 0.00230   
## 1682 0.994 6.27e-04 0.00310   
## 1683 1.005 2.10e-05 0.00224   
## 1684 1.005 1.15e-08 0.00180   
## 1685 1.005 2.35e-04 0.00486   
## 1686 1.006 4.01e-05 0.00382   
## 1687 1.005 5.81e-06 0.00189   
## 1688 1.005 6.98e-05 0.00308   
## 1689 1.005 3.00e-06 0.00267   
## 1690 1.001 3.00e-04 0.00330   
## 1691 1.006 1.16e-05 0.00316   
## 1692 1.003 6.50e-05 0.00208   
## 1693 1.005 2.90e-05 0.00257   
## 1694 1.007 2.11e-06 0.00370   
## 1695 1.005 5.30e-06 0.00186   
## 1696 1.005 1.10e-06 0.00197   
## 1697 0.993 4.67e-04 0.00212   
## 1698 1.002 2.33e-04 0.00331   
## 1699 1.004 1.28e-04 0.00332   
## 1700 1.005 8.43e-05 0.00349   
## 1701 1.006 8.48e-05 0.00422   
## 1702 1.006 4.63e-06 0.00320   
## 1703 0.999 3.45e-04 0.00293   
## 1704 0.999 3.29e-04 0.00289   
## 1705 1.006 1.10e-04 0.00487   
## 1706 1.000 3.40e-04 0.00308   
## 1707 1.006 2.34e-08 0.00300   
## 1708 1.004 6.88e-05 0.00255   
## 1709 1.007 9.77e-06 0.00385   
## 1710 1.006 8.90e-07 0.00330   
## 1711 1.005 1.12e-06 0.00179   
## 1712 1.002 1.46e-04 0.00238   
## 1713 1.006 1.07e-05 0.00287   
## 1714 1.005 4.77e-06 0.00186   
## 1715 0.999 5.80e-04 0.00400   
## 1716 0.998 5.54e-04 0.00361   
## 1717 1.000 1.95e-04 0.00211   
## 1718 1.005 7.79e-05 0.00330   
## 1719 1.006 5.65e-06 0.00282   
## 1720 0.996 5.58e-04 0.00311   
## 1721 0.995 3.78e-04 0.00210   
## 1722 1.004 7.79e-05 0.00263   
## 1723 1.004 9.64e-05 0.00321   
## 1724 1.006 6.11e-08 0.00289   
## 1725 1.006 5.44e-06 0.00309   
## 1726 1.001 2.23e-04 0.00268   
## 1727 1.002 8.46e-05 0.00191   
## 1728 1.005 9.55e-05 0.00358   
## 1729 1.004 2.18e-05 0.00182   
## 1730 1.001 2.42e-04 0.00296   
## 1731 1.005 4.92e-06 0.00255   
## 1732 0.992 4.22e-04 0.00182   
## 1733 1.002 1.25e-04 0.00241   
## 1734 1.006 1.27e-05 0.00321   
## 1735 1.001 7.52e-05 0.00129   
## 1736 1.006 9.10e-06 0.00281   
## 1737 1.003 2.14e-04 0.00369   
## 1738 1.003 1.50e-04 0.00310   
## 1739 1.005 1.60e-06 0.00262   
## 1740 1.004 9.08e-05 0.00288   
## 1741 1.005 6.21e-07 0.00209   
## 1742 1.005 4.28e-07 0.00245   
## 1743 1.004 1.24e-04 0.00312   
## 1744 1.005 1.71e-06 0.00199   
## 1745 1.003 1.38e-04 0.00293   
## 1746 1.006 4.93e-05 0.00372   
## 1747 1.002 1.73e-04 0.00273   
## 1748 1.005 1.33e-05 0.00252   
## 1749 1.007 5.71e-07 0.00375   
## 1750 1.006 2.31e-06 0.00335   
## 1751 1.004 6.29e-05 0.00235   
## 1752 1.006 3.71e-05 0.00403   
## 1753 1.007 1.02e-05 0.00379   
## 1754 1.005 9.21e-06 0.00276   
## 1755 1.004 1.02e-05 0.00161   
## 1756 1.006 1.32e-05 0.00319   
## 1757 1.005 4.50e-07 0.00245   
## 1758 1.002 1.84e-04 0.00272   
## 1759 1.001 9.51e-05 0.00166   
## 1760 1.006 8.56e-06 0.00338   
## 1761 1.004 3.78e-05 0.00212   
## 1762 1.004 7.63e-06 0.00174   
## 1763 1.005 3.24e-07 0.00222   
## 1764 1.007 5.34e-06 0.00382   
## 1765 1.006 5.38e-05 0.00361   
## 1766 1.000 2.84e-04 0.00281   
## 1767 1.003 7.95e-05 0.00228   
## 1768 1.002 1.31e-04 0.00219   
## 1769 1.006 4.83e-06 0.00284   
## 1770 1.003 9.63e-05 0.00262   
## 1771 1.006 2.64e-05 0.00364   
## 1772 1.007 1.43e-06 0.00382   
## 1773 1.004 7.24e-05 0.00263   
## 1774 1.005 6.85e-06 0.00245   
## 1775 0.999 4.32e-04 0.00354   
## 1776 0.987 7.35e-04 0.00234 \*  
## 1777 1.003 8.79e-05 0.00230   
## 1778 1.003 2.17e-04 0.00383   
## 1779 1.001 1.30e-04 0.00212   
## 1780 0.991 3.95e-04 0.00170 \*  
## 1781 1.005 6.27e-06 0.00189   
## 1782 0.996 5.67e-04 0.00309   
## 1783 1.002 1.70e-04 0.00288   
## 1784 1.005 2.63e-07 0.00262   
## 1785 1.006 6.01e-05 0.00423   
## 1786 1.001 2.19e-04 0.00261   
## 1787 1.006 1.04e-05 0.00332   
## 1788 1.006 4.16e-05 0.00372   
## 1789 1.005 8.04e-06 0.00268   
## 1790 1.005 1.67e-05 0.00255   
## 1791 1.002 2.32e-04 0.00325   
## 1792 1.003 1.82e-04 0.00339   
## 1793 1.005 7.83e-08 0.00167   
## 1794 1.005 5.55e-06 0.00202   
## 1795 1.003 1.24e-04 0.00285   
## 1796 1.002 1.17e-04 0.00234   
## 1797 1.000 1.41e-04 0.00165   
## 1798 1.008 6.22e-05 0.00576   
## 1799 1.007 2.24e-05 0.00453   
## 1800 1.005 5.74e-06 0.00219   
## 1801 1.005 2.26e-05 0.00290   
## 1802 1.005 3.44e-07 0.00197   
## 1803 1.001 1.67e-04 0.00237   
## 1804 1.000 1.50e-04 0.00180   
## 1805 1.002 1.51e-04 0.00242   
## 1806 1.006 8.66e-08 0.00304   
## 1807 0.999 3.32e-04 0.00279   
## 1808 1.000 3.43e-04 0.00312   
## 1809 1.002 2.17e-04 0.00292   
## 1810 1.005 2.15e-06 0.00243   
## 1811 1.005 9.36e-06 0.00282   
## 1812 1.004 2.20e-05 0.00182   
## 1813 1.006 3.97e-05 0.00403   
## 1814 1.005 6.82e-05 0.00344   
## 1815 1.007 3.16e-08 0.00403   
## 1816 1.003 1.04e-04 0.00247   
## 1817 1.001 2.29e-04 0.00294   
## 1818 1.001 2.42e-04 0.00284   
## 1819 0.999 1.86e-04 0.00181   
## 1820 1.005 1.62e-05 0.00275   
## 1821 1.003 7.69e-05 0.00242   
## 1822 1.005 1.01e-04 0.00334   
## 1823 1.006 1.22e-04 0.00448   
## 1824 1.004 4.36e-06 0.00176   
## 1825 0.997 1.92e-04 0.00143   
## 1826 1.005 2.86e-09 0.00213   
## 1827 1.006 1.22e-04 0.00436   
## 1828 1.000 6.44e-04 0.00465   
## 1829 1.003 5.47e-05 0.00197   
## 1830 0.998 3.38e-04 0.00265   
## 1831 1.002 1.35e-04 0.00232   
## 1832 1.001 2.03e-04 0.00247   
## 1833 0.992 6.49e-04 0.00264   
## 1834 1.003 1.80e-04 0.00308   
## 1835 1.006 5.41e-05 0.00397   
## 1836 0.986 9.85e-04 0.00284 \*  
## 1837 1.005 1.71e-06 0.00249   
## 1838 1.005 6.04e-05 0.00342   
## 1839 1.005 1.28e-05 0.00249   
## 1840 1.006 2.58e-06 0.00344   
## 1841 1.007 2.20e-05 0.00446   
## 1842 1.004 4.10e-06 0.00127   
## 1843 1.004 3.73e-06 0.00170   
## 1844 1.004 1.14e-06 0.00149   
## 1845 0.996 2.21e-04 0.00158   
## 1846 1.006 5.59e-05 0.00371   
## 1847 1.002 3.46e-04 0.00384   
## 1848 0.996 2.82e-04 0.00189   
## 1849 0.996 2.56e-04 0.00174   
## 1850 1.003 3.97e-04 0.00460   
## 1851 1.005 9.68e-08 0.00219   
## 1852 0.994 7.25e-04 0.00330   
## 1853 1.005 2.83e-05 0.00293   
## 1854 0.999 2.76e-04 0.00242   
## 1855 0.997 4.86e-04 0.00306   
## 1856 1.006 1.28e-05 0.00305   
## 1857 0.997 2.60e-04 0.00184   
## 1858 1.007 1.24e-04 0.00532   
## 1859 1.005 3.83e-05 0.00287   
## 1860 1.005 1.43e-04 0.00425   
## 1861 1.002 1.66e-04 0.00252   
## 1862 1.006 1.95e-05 0.00322   
## 1863 1.002 1.90e-04 0.00285   
## 1864 1.002 1.18e-04 0.00234   
## 1865 1.005 6.87e-06 0.00255   
## 1866 1.001 1.05e-04 0.00176   
## 1867 1.004 1.01e-04 0.00319   
## 1868 1.005 1.39e-06 0.00182   
## 1869 1.006 1.28e-05 0.00340   
## 1870 1.006 5.32e-06 0.00329   
## 1871 1.005 3.20e-08 0.00221   
## 1872 1.002 1.30e-04 0.00214   
## 1873 1.005 2.03e-05 0.00231   
## 1874 1.004 3.91e-05 0.00218   
## 1875 1.001 7.52e-05 0.00130   
## 1876 1.003 6.14e-05 0.00213   
## 1877 1.005 1.38e-04 0.00423   
## 1878 1.005 7.70e-05 0.00342   
## 1879 0.999 5.45e-04 0.00407   
## 1880 1.005 1.05e-05 0.00273   
## 1881 1.006 3.98e-05 0.00352   
## 1882 1.006 2.39e-05 0.00309   
## 1883 1.000 1.43e-04 0.00167   
## 1884 1.005 3.42e-05 0.00316   
## 1885 1.003 1.61e-04 0.00298   
## 1886 0.993 5.22e-04 0.00244   
## 1887 0.999 3.44e-04 0.00281   
## 1888 1.001 4.86e-04 0.00424   
## 1889 1.005 1.65e-04 0.00410   
## 1890 1.004 1.91e-04 0.00391   
## 1891 1.006 8.17e-06 0.00354   
## 1892 1.006 7.44e-06 0.00333   
## 1893 0.996 6.07e-04 0.00344   
## 1894 1.003 1.39e-04 0.00281   
## 1895 1.000 2.71e-04 0.00279   
## 1896 1.006 5.80e-06 0.00296   
## 1897 1.004 6.25e-06 0.00135   
## 1898 1.004 9.29e-06 0.00188   
## 1899 0.995 3.54e-04 0.00197   
## 1900 0.996 6.13e-04 0.00335   
## 1901 1.005 1.66e-05 0.00222   
## 1902 1.006 2.15e-05 0.00345   
## 1903 1.004 1.48e-04 0.00353   
## 1904 1.005 8.64e-06 0.00263   
## 1905 1.004 8.53e-06 0.00186   
## 1906 1.003 1.91e-04 0.00357   
## 1907 1.006 8.24e-06 0.00320   
## 1908 1.005 1.20e-06 0.00206   
## 1909 1.005 5.64e-05 0.00295   
## 1910 1.003 1.91e-04 0.00333   
## 1911 1.004 4.72e-05 0.00226   
## 1912 0.997 4.01e-04 0.00268   
## 1913 1.006 9.93e-06 0.00298   
## 1914 1.005 1.46e-05 0.00231   
## 1915 0.997 3.45e-04 0.00237   
## 1916 1.005 2.62e-05 0.00274   
## 1917 1.005 8.57e-07 0.00241   
## 1918 1.004 1.27e-04 0.00317   
## 1919 1.005 9.97e-07 0.00187   
## 1920 1.001 4.05e-04 0.00380   
## 1921 1.006 2.12e-06 0.00351   
## 1922 0.998 2.91e-04 0.00239   
## 1923 0.997 4.37e-04 0.00294   
## 1924 0.990 6.21e-04 0.00235 \*  
## 1925 0.997 3.71e-04 0.00256   
## 1926 1.004 3.64e-05 0.00193   
## 1927 1.003 5.21e-05 0.00203   
## 1928 1.004 2.32e-05 0.00177   
## 1929 1.004 1.17e-05 0.00160   
## 1930 1.001 2.27e-04 0.00265   
## 1931 1.005 1.52e-06 0.00229   
## 1932 1.006 4.49e-07 0.00280   
## 1933 1.005 2.18e-06 0.00239   
## 1934 1.004 2.53e-05 0.00176   
## 1935 1.004 4.62e-05 0.00257   
## 1936 1.005 8.57e-06 0.00279   
## 1937 1.002 1.44e-04 0.00251   
## 1938 1.004 8.32e-07 0.00164   
## 1939 1.001 1.61e-04 0.00225   
## 1940 0.998 5.28e-04 0.00353   
## 1941 1.005 1.48e-05 0.00260   
## 1942 1.004 1.22e-04 0.00315   
## 1943 1.006 8.03e-06 0.00339   
## 1944 1.002 1.24e-04 0.00227   
## 1945 1.006 5.92e-07 0.00358   
## 1946 0.996 6.12e-04 0.00335   
## 1947 1.004 8.25e-05 0.00284   
## 1948 1.002 3.29e-04 0.00376   
## 1949 1.002 1.87e-04 0.00267   
## 1950 1.002 6.43e-05 0.00156   
## 1951 1.002 1.70e-04 0.00267   
## 1952 1.007 4.26e-06 0.00373   
## 1953 1.006 2.42e-05 0.00319   
## 1954 1.001 2.16e-04 0.00271   
## 1955 1.005 1.08e-04 0.00405   
## 1956 1.005 1.08e-04 0.00361   
## 1957 1.005 1.99e-05 0.00279   
## 1958 1.002 2.04e-04 0.00285   
## 1959 1.000 1.87e-04 0.00213   
## 1960 1.007 2.91e-08 0.00367   
## 1961 0.993 5.28e-04 0.00250   
## 1962 1.004 1.26e-04 0.00330   
## 1963 0.983 1.18e-03 0.00295 \*  
## 1964 1.004 9.23e-05 0.00277   
## 1965 1.007 1.06e-05 0.00412   
## 1966 1.002 1.15e-04 0.00238   
## 1967 1.004 9.53e-06 0.00163   
## 1968 1.000 2.63e-04 0.00275   
## 1969 1.005 1.28e-05 0.00281   
## 1970 1.002 1.07e-04 0.00190   
## 1971 1.005 1.67e-06 0.00192   
## 1972 1.005 3.38e-05 0.00262   
## 1973 0.999 2.80e-04 0.00256   
## 1974 1.007 2.26e-06 0.00389   
## 1975 1.005 1.75e-08 0.00218   
## 1976 0.998 4.24e-04 0.00303   
## 1977 0.996 5.13e-04 0.00287   
## 1978 1.005 1.30e-05 0.00211   
## 1979 1.005 7.09e-05 0.00366   
## 1980 1.003 2.00e-04 0.00327   
## 1981 0.997 5.95e-04 0.00359   
## 1982 1.006 5.64e-06 0.00361   
## 1983 1.000 3.71e-04 0.00329   
## 1984 0.995 4.64e-04 0.00251   
## 1985 1.007 3.07e-05 0.00440   
## 1986 1.003 8.73e-05 0.00231   
## 1987 1.005 2.79e-05 0.00299   
## 1988 0.999 2.27e-04 0.00223   
## 1989 0.997 2.96e-04 0.00223   
## 1990 1.004 3.49e-06 0.00125   
## 1991 1.002 8.38e-05 0.00192   
## 1992 1.006 3.56e-05 0.00347   
## 1993 1.005 1.98e-05 0.00278   
## 1994 1.002 3.55e-04 0.00397   
## 1995 1.000 1.11e-04 0.00143   
## 1996 1.000 3.22e-04 0.00303   
## 1997 1.004 2.03e-05 0.00169   
## 1998 1.007 1.04e-06 0.00425   
## 1999 0.995 6.68e-04 0.00338   
## 2000 1.002 1.66e-04 0.00250   
## 2001 0.997 5.01e-04 0.00306   
## 2002 0.997 3.04e-04 0.00218   
## 2003 1.002 8.29e-05 0.00189   
## 2004 1.004 2.69e-04 0.00429   
## 2005 1.005 2.24e-05 0.00265   
## 2006 1.002 1.00e-04 0.00201   
## 2007 1.006 6.56e-06 0.00371   
## 2008 0.997 5.06e-04 0.00312   
## 2009 1.005 6.86e-07 0.00174   
## 2010 1.006 4.87e-05 0.00379   
## 2011 1.004 8.10e-05 0.00287   
## 2012 1.002 1.20e-04 0.00238   
## 2013 1.005 1.33e-07 0.00221   
## 2014 0.998 2.18e-04 0.00180   
## 2015 0.992 6.65e-04 0.00278   
## 2016 1.006 2.16e-05 0.00362   
## 2017 1.006 1.55e-06 0.00316   
## 2018 0.999 2.59e-04 0.00235   
## 2019 1.004 1.08e-04 0.00292   
## 2020 1.000 2.94e-04 0.00282   
## 2021 1.005 4.05e-07 0.00259   
## 2022 1.007 3.33e-05 0.00425   
## 2023 1.004 5.26e-06 0.00170   
## 2024 1.005 3.42e-06 0.00218   
## 2025 0.991 9.95e-04 0.00359 \*  
## 2026 1.005 1.31e-04 0.00416   
## 2027 1.004 1.64e-04 0.00351   
## 2028 1.002 1.77e-04 0.00259   
## 2029 0.993 4.14e-04 0.00204   
## 2030 1.006 2.64e-06 0.00301   
## 2031 1.007 3.24e-05 0.00414   
## 2032 0.997 4.24e-04 0.00282   
## 2033 0.996 3.27e-04 0.00211   
## 2034 1.001 1.69e-04 0.00224   
## 2035 1.000 1.51e-04 0.00178   
## 2036 1.005 1.77e-05 0.00225   
## 2037 1.005 6.43e-06 0.00260   
## 2038 1.006 8.28e-05 0.00456   
## 2039 1.000 2.13e-04 0.00225   
## 2040 1.004 9.36e-06 0.00160   
## 2041 1.005 9.96e-06 0.00265   
## 2042 1.004 1.84e-04 0.00376   
## 2043 1.002 2.46e-04 0.00322   
## 2044 1.003 1.46e-04 0.00285   
## 2045 1.005 5.48e-05 0.00347   
## 2046 1.007 5.91e-06 0.00408   
## 2047 1.006 1.04e-05 0.00293   
## 2048 1.003 1.27e-04 0.00254   
## 2049 0.996 4.60e-04 0.00282   
## 2050 0.999 2.21e-04 0.00210   
## 2051 1.004 9.44e-05 0.00276   
## 2052 1.004 8.54e-05 0.00293   
## 2053 0.998 5.61e-04 0.00366   
## 2054 1.005 2.63e-05 0.00250   
## 2055 1.002 1.68e-04 0.00271   
## 2056 1.004 1.77e-05 0.00208   
## 2057 0.995 4.85e-04 0.00269   
## 2058 1.006 9.26e-08 0.00274   
## 2059 1.006 2.67e-06 0.00309   
## 2060 1.005 3.47e-07 0.00172   
## 2061 1.001 1.94e-04 0.00251   
## 2062 1.006 8.18e-08 0.00303   
## 2063 1.004 6.51e-05 0.00248   
## 2064 1.006 7.79e-05 0.00405   
## 2065 1.004 1.23e-04 0.00308   
## 2066 0.991 7.45e-04 0.00292 \*  
## 2067 1.007 1.79e-06 0.00372   
## 2068 1.005 4.09e-08 0.00222   
## 2069 1.004 1.32e-05 0.00156   
## 2070 0.998 5.68e-04 0.00376   
## 2071 1.002 1.99e-04 0.00282   
## 2072 1.005 5.92e-05 0.00290   
## 2073 1.001 1.13e-04 0.00164   
## 2074 1.005 4.66e-05 0.00300   
## 2075 1.006 4.52e-05 0.00388   
## 2076 1.006 6.93e-07 0.00344   
## 2077 1.001 1.80e-04 0.00256   
## 2078 1.005 2.76e-05 0.00276   
## 2079 0.993 4.11e-04 0.00204   
## 2080 1.001 2.53e-04 0.00289   
## 2081 1.002 1.13e-04 0.00214   
## 2082 1.000 2.44e-04 0.00265   
## 2083 0.998 5.19e-04 0.00342   
## 2084 1.005 4.62e-05 0.00282   
## 2085 1.007 1.69e-06 0.00408   
## 2086 1.006 5.91e-05 0.00420   
## 2087 1.005 2.86e-06 0.00220   
## 2088 1.005 2.90e-05 0.00262   
## 2089 1.005 3.53e-05 0.00294   
## 2090 1.004 1.19e-05 0.00161   
## 2091 1.002 8.01e-05 0.00187   
## 2092 0.991 4.29e-04 0.00181 \*  
## 2093 0.997 3.18e-04 0.00214   
## 2094 0.999 4.95e-04 0.00368   
## 2095 1.003 1.33e-04 0.00282   
## 2096 1.005 4.09e-05 0.00315   
## 2097 0.996 5.31e-04 0.00310   
## 2098 1.000 2.91e-04 0.00297   
## 2099 0.998 2.76e-04 0.00222   
## 2100 1.003 9.56e-05 0.00252   
## 2101 1.001 1.05e-04 0.00184   
## 2102 1.006 7.47e-07 0.00328   
## 2103 1.001 2.12e-04 0.00270   
## 2104 1.005 2.50e-05 0.00306   
## 2105 1.005 1.74e-06 0.00243   
## 2106 1.004 2.01e-05 0.00171   
## 2107 1.005 3.92e-08 0.00175   
## 2108 1.005 9.55e-06 0.00248   
## 2109 1.003 9.46e-05 0.00258   
## 2110 1.006 9.50e-06 0.00303   
## 2111 1.006 1.03e-06 0.00285   
## 2112 0.998 3.59e-04 0.00280   
## 2113 1.006 1.27e-05 0.00313   
## 2114 1.000 2.24e-04 0.00241   
## 2115 1.005 9.77e-07 0.00213   
## 2116 1.005 2.42e-06 0.00205   
## 2117 1.004 2.35e-05 0.00176   
## 2118 1.002 2.22e-04 0.00330   
## 2119 1.000 1.42e-04 0.00183   
## 2120 1.000 3.92e-04 0.00335   
## 2121 1.007 2.34e-06 0.00369   
## 2122 1.002 7.96e-05 0.00181   
## 2123 0.993 9.14e-04 0.00385   
## 2124 1.006 4.47e-05 0.00366   
## 2125 1.002 6.46e-05 0.00155   
## 2126 0.995 5.38e-04 0.00281   
## 2127 1.007 9.73e-07 0.00392   
## 2128 1.004 2.07e-06 0.00140   
## 2129 1.002 8.24e-05 0.00194   
## 2130 1.004 2.43e-05 0.00179   
## 2131 1.004 9.76e-05 0.00281   
## 2132 0.999 3.71e-04 0.00307   
## 2133 1.006 2.74e-05 0.00398   
## 2134 1.006 1.36e-05 0.00301   
## 2135 1.000 2.03e-04 0.00227   
## 2136 1.000 3.00e-04 0.00284   
## 2137 1.004 9.11e-06 0.00178   
## 2138 1.006 5.06e-05 0.00383   
## 2139 1.005 1.80e-04 0.00475   
## 2140 1.003 9.22e-05 0.00216   
## 2141 1.001 1.65e-04 0.00212   
## 2142 1.005 1.13e-05 0.00205   
## 2143 1.004 8.94e-06 0.00150   
## 2144 1.005 1.75e-05 0.00222   
## 2145 1.001 1.22e-04 0.00194   
## 2146 0.998 2.23e-04 0.00183   
## 2147 1.006 1.22e-08 0.00320   
## 2148 1.001 1.59e-04 0.00209   
## 2149 1.001 1.88e-04 0.00247   
## 2150 1.005 3.23e-07 0.00226   
## 2151 1.001 1.67e-04 0.00222   
## 2152 1.002 1.25e-04 0.00225   
## 2153 1.003 8.44e-05 0.00206   
## 2154 1.005 1.22e-07 0.00254   
## 2155 1.006 1.27e-05 0.00328   
## 2156 1.005 2.63e-05 0.00233   
## 2157 1.002 1.22e-04 0.00209   
## 2158 1.002 2.49e-04 0.00325   
## 2159 1.002 1.19e-04 0.00220   
## 2160 1.006 4.43e-06 0.00334   
## 2161 1.004 7.20e-06 0.00141   
## 2162 1.006 2.75e-05 0.00338   
## 2163 1.004 5.62e-05 0.00243   
## 2164 1.003 9.17e-05 0.00248   
## 2165 1.006 5.84e-06 0.00323   
## 2166 1.005 2.10e-05 0.00254   
## 2167 1.002 1.65e-04 0.00279   
## 2168 1.003 7.84e-05 0.00194   
## 2169 0.999 3.45e-04 0.00280   
## 2170 1.004 3.74e-06 0.00133   
## 2171 0.998 4.38e-04 0.00316   
## 2172 1.005 3.65e-06 0.00260   
## 2173 1.007 1.65e-05 0.00391   
## 2174 1.005 1.94e-06 0.00195   
## 2175 1.004 9.89e-06 0.00166   
## 2176 1.007 8.93e-06 0.00425   
## 2177 1.005 1.41e-05 0.00248   
## 2178 1.005 3.65e-05 0.00264   
## 2179 1.003 8.64e-05 0.00220   
## 2180 1.005 7.28e-05 0.00316   
## 2181 0.993 5.69e-04 0.00268   
## 2182 1.004 1.46e-06 0.00152   
## 2183 1.006 5.12e-08 0.00277   
## 2184 1.004 1.02e-04 0.00321   
## 2185 1.005 6.70e-06 0.00253   
## 2186 1.005 5.33e-06 0.00273   
## 2187 1.004 4.60e-05 0.00254   
## 2188 1.006 7.41e-10 0.00348   
## 2189 1.006 8.79e-07 0.00314   
## 2190 1.002 8.10e-05 0.00185   
## 2191 1.005 1.46e-05 0.00215   
## 2192 1.004 1.05e-05 0.00190   
## 2193 1.008 1.07e-05 0.00494   
## 2194 1.005 1.01e-04 0.00361   
## 2195 1.005 2.46e-08 0.00222   
## 2196 1.005 7.07e-05 0.00309   
## 2197 1.006 5.33e-06 0.00281   
## 2198 1.002 1.22e-04 0.00244   
## 2199 1.006 6.16e-09 0.00303   
## 2200 0.991 6.64e-04 0.00256 \*  
## 2201 1.001 2.21e-04 0.00283   
## 2202 0.998 4.59e-04 0.00313   
## 2203 1.003 1.45e-04 0.00293   
## 2204 1.006 3.67e-05 0.00344   
## 2205 1.005 4.35e-05 0.00316   
## 2206 1.006 1.13e-05 0.00336   
## 2207 1.003 1.05e-04 0.00273   
## 2208 1.004 7.48e-06 0.00151   
## 2209 1.006 1.13e-05 0.00310   
## 2210 1.001 1.55e-04 0.00237   
## 2211 1.007 4.59e-08 0.00427   
## 2212 1.006 7.21e-05 0.00428   
## 2213 1.004 1.25e-05 0.00196   
## 2214 1.005 1.40e-05 0.00272   
## 2215 0.999 3.60e-04 0.00285   
## 2216 1.006 1.93e-05 0.00317   
## 2217 1.004 5.47e-05 0.00249   
## 2218 1.000 1.74e-04 0.00212   
## 2219 1.000 1.76e-04 0.00216   
## 2220 1.001 1.88e-04 0.00265   
## 2221 1.005 1.17e-04 0.00354   
## 2222 1.007 1.53e-05 0.00438   
## 2223 1.005 1.45e-07 0.00242   
## 2224 1.006 3.17e-05 0.00370   
## 2225 0.999 2.19e-04 0.00217   
## 2226 1.005 7.67e-07 0.00175   
## 2227 1.000 9.36e-05 0.00128   
## 2228 1.004 6.01e-07 0.00152   
## 2229 1.007 3.50e-06 0.00413   
## 2230 1.007 2.35e-05 0.00419   
## 2231 1.005 2.94e-05 0.00303   
## 2232 0.997 3.06e-04 0.00210   
## 2233 1.005 1.26e-04 0.00399   
## 2234 0.997 4.40e-04 0.00281   
## 2235 1.007 7.23e-06 0.00395   
## 2236 1.006 5.70e-06 0.00308   
## 2237 1.005 1.53e-07 0.00221   
## 2238 1.005 1.81e-06 0.00180   
## 2239 1.003 1.49e-04 0.00318   
## 2240 0.991 7.79e-04 0.00294 \*  
## 2241 1.006 8.18e-06 0.00337   
## 2242 1.005 1.64e-04 0.00432   
## 2243 1.004 1.51e-07 0.00158   
## 2244 1.005 5.97e-05 0.00304   
## 2245 1.003 1.45e-04 0.00303   
## 2246 1.004 5.00e-06 0.00144   
## 2247 1.001 1.89e-04 0.00258   
## 2248 1.005 4.49e-06 0.00266   
## 2249 1.006 4.27e-05 0.00398   
## 2250 1.007 3.31e-08 0.00370   
## 2251 1.004 8.03e-05 0.00266   
## 2252 1.006 7.10e-06 0.00331   
## 2253 1.006 6.08e-06 0.00303   
## 2254 1.006 7.04e-08 0.00338   
## 2255 1.005 8.29e-06 0.00251   
## 2256 1.000 3.19e-04 0.00322   
## 2257 1.004 7.03e-05 0.00290   
## 2258 1.002 7.96e-05 0.00186   
## 2259 1.002 5.12e-04 0.00497   
## 2260 1.005 5.73e-07 0.00239   
## 2261 1.004 1.73e-04 0.00369   
## 2262 1.005 5.97e-05 0.00344   
## 2263 1.005 1.98e-08 0.00221   
## 2264 1.005 8.87e-07 0.00225   
## 2265 1.001 1.19e-04 0.00177   
## 2266 1.004 9.67e-05 0.00313   
## 2267 1.000 2.67e-04 0.00273   
## 2268 1.003 1.43e-04 0.00295   
## 2269 1.004 1.71e-06 0.00159   
## 2270 1.000 4.01e-04 0.00341   
## 2271 1.002 1.03e-04 0.00212   
## 2272 1.003 2.05e-04 0.00346   
## 2273 0.994 6.41e-04 0.00300   
## 2274 1.003 1.35e-04 0.00292   
## 2275 1.007 2.25e-06 0.00396   
## 2276 0.996 5.91e-04 0.00332   
## 2277 0.999 3.42e-04 0.00301   
## 2278 0.998 6.28e-04 0.00387   
## 2279 1.001 7.95e-05 0.00151   
## 2280 1.005 8.52e-05 0.00324   
## 2281 0.995 7.17e-04 0.00363   
## 2282 1.004 2.46e-04 0.00436   
## 2283 0.991 7.50e-04 0.00287 \*  
## 2284 0.998 3.62e-04 0.00263   
## 2285 1.006 3.05e-07 0.00342   
## 2286 1.001 3.97e-04 0.00407   
## 2287 1.003 6.34e-05 0.00203   
## 2288 1.005 2.05e-06 0.00210   
## 2289 1.006 6.56e-06 0.00284   
## 2290 1.004 9.97e-05 0.00277   
## 2291 0.999 3.24e-04 0.00288   
## 2292 1.002 1.51e-04 0.00265   
## 2293 0.993 5.25e-04 0.00242   
## 2294 1.006 2.35e-05 0.00348   
## 2295 1.006 4.88e-07 0.00306   
## 2296 0.995 4.37e-04 0.00238   
## 2297 0.998 4.58e-04 0.00337   
## 2298 1.005 9.63e-06 0.00254   
## 2299 0.996 3.27e-04 0.00203   
## 2300 1.006 2.36e-05 0.00334   
## 2301 1.001 1.94e-04 0.00249   
## 2302 0.997 1.57e-04 0.00129   
## 2303 1.005 1.13e-04 0.00370   
## 2304 1.006 4.07e-06 0.00319   
## 2305 1.006 5.53e-05 0.00366   
## 2306 1.006 2.01e-06 0.00340   
## 2307 1.006 1.27e-04 0.00431   
## 2308 1.004 4.62e-06 0.00130   
## 2309 1.003 8.41e-05 0.00211   
## 2310 1.005 9.16e-06 0.00196   
## 2311 1.005 6.35e-05 0.00323   
## 2312 1.004 2.08e-05 0.00166   
## 2313 1.005 3.40e-08 0.00221   
## 2314 1.006 8.44e-08 0.00356   
## 2315 0.999 3.19e-04 0.00270   
## 2316 1.005 3.24e-06 0.00196   
## 2317 1.005 1.26e-04 0.00380   
## 2318 1.005 2.69e-06 0.00215   
## 2319 1.001 1.23e-04 0.00176   
## 2320 1.003 2.68e-04 0.00375   
## 2321 1.004 3.57e-05 0.00236   
## 2322 1.006 5.26e-06 0.00282   
## 2323 1.000 3.37e-04 0.00307   
## 2324 1.000 3.12e-04 0.00302   
## 2325 1.006 3.68e-05 0.00338   
## 2326 1.005 1.02e-04 0.00350   
## 2327 1.004 3.40e-05 0.00239   
## 2328 1.006 1.99e-05 0.00331   
## 2329 1.007 1.45e-06 0.00370   
## 2330 0.997 4.01e-04 0.00257   
## 2331 1.003 1.09e-04 0.00271   
## 2332 1.000 2.02e-04 0.00227   
## 2333 0.997 3.43e-04 0.00243   
## 2334 1.005 1.62e-05 0.00282   
## 2335 1.003 7.13e-05 0.00206   
## 2336 1.006 2.15e-05 0.00387   
## 2337 1.005 4.73e-07 0.00264   
## 2338 1.003 2.05e-04 0.00362   
## 2339 1.002 1.46e-04 0.00241   
## 2340 1.008 7.50e-05 0.00589   
## 2341 1.005 4.24e-05 0.00332   
## 2342 1.006 1.69e-05 0.00351   
## 2343 1.005 2.25e-05 0.00248   
## 2344 1.008 8.62e-06 0.00506   
## 2345 1.007 3.12e-06 0.00371   
## 2346 0.995 3.25e-04 0.00196   
## 2347 1.005 1.25e-05 0.00283   
## 2348 1.005 3.53e-05 0.00259   
## 2349 0.996 2.76e-04 0.00188   
## 2350 1.005 3.06e-06 0.00262   
## 2351 1.006 1.38e-05 0.00326   
## 2352 1.005 4.15e-05 0.00258   
## 2353 1.007 9.20e-08 0.00382   
## 2354 1.005 1.87e-08 0.00216   
## 2355 1.006 7.92e-05 0.00417   
## 2356 1.005 6.72e-06 0.00194   
## 2357 0.997 3.80e-04 0.00249   
## 2358 1.006 9.02e-05 0.00450   
## 2359 1.001 9.27e-05 0.00166   
## 2360 1.000 3.03e-04 0.00296   
## 2361 1.002 4.19e-04 0.00447   
## 2362 1.002 8.33e-05 0.00193   
## 2363 1.003 1.16e-04 0.00264   
## 2364 1.005 9.28e-08 0.00250   
## 2365 1.006 1.14e-07 0.00355   
## 2366 1.005 3.51e-08 0.00233   
## 2367 1.004 8.20e-05 0.00254   
## 2368 1.004 1.76e-05 0.00192   
## 2369 1.006 1.93e-08 0.00345   
## 2370 1.004 2.11e-05 0.00178   
## 2371 1.007 9.08e-08 0.00365   
## 2372 1.003 1.36e-04 0.00308   
## 2373 1.006 1.10e-05 0.00355   
## 2374 0.998 2.53e-04 0.00216   
## 2375 1.001 2.68e-04 0.00319   
## 2376 1.005 7.01e-05 0.00327   
## 2377 1.004 7.06e-06 0.00146   
## 2378 1.006 1.31e-05 0.00334   
## 2379 1.003 1.36e-04 0.00297   
## 2380 1.001 2.11e-04 0.00281   
## 2381 1.004 1.68e-04 0.00396   
## 2382 1.006 2.34e-05 0.00329   
## 2383 0.998 5.91e-04 0.00373   
## 2384 1.001 1.73e-04 0.00226   
## 2385 1.006 9.11e-06 0.00306   
## 2386 1.004 6.47e-06 0.00178   
## 2387 1.001 2.12e-04 0.00260   
## 2388 0.998 2.81e-04 0.00232   
## 2389 0.999 3.41e-04 0.00286   
## 2390 1.005 3.13e-05 0.00279   
## 2391 1.000 3.05e-04 0.00303   
## 2392 1.004 1.60e-04 0.00363   
## 2393 1.003 6.17e-05 0.00191   
## 2394 1.003 2.21e-04 0.00381   
## 2395 1.002 3.42e-04 0.00406   
## 2396 1.005 2.69e-04 0.00512   
## 2397 1.005 1.43e-04 0.00437   
## 2398 1.005 1.79e-05 0.00220   
## 2399 1.005 9.52e-06 0.00274   
## 2400 1.004 8.72e-05 0.00275   
## 2401 1.003 1.26e-04 0.00265   
## 2402 1.003 9.44e-05 0.00255   
## 2403 1.002 1.09e-04 0.00193   
## 2404 1.005 4.18e-07 0.00180   
## 2405 1.005 9.10e-05 0.00354   
## 2406 1.003 1.18e-04 0.00267   
## 2407 1.006 9.80e-09 0.00330   
## 2408 0.992 1.11e-03 0.00412   
## 2409 1.008 6.72e-05 0.00539   
## 2410 1.005 1.12e-05 0.00232   
## 2411 1.001 2.02e-04 0.00272   
## 2412 0.999 2.28e-04 0.00226   
## 2413 1.005 9.79e-05 0.00345   
## 2414 1.001 2.90e-04 0.00305   
## 2415 1.005 3.51e-05 0.00312   
## 2416 1.005 1.77e-04 0.00442   
## 2417 1.007 8.91e-05 0.00531   
## 2418 0.996 2.83e-04 0.00192   
## 2419 1.004 5.05e-06 0.00132   
## 2420 0.993 6.78e-04 0.00294   
## 2421 1.004 1.74e-05 0.00174   
## 2422 1.004 1.74e-04 0.00386   
## 2423 1.000 3.61e-04 0.00336   
## 2424 1.000 3.04e-04 0.00303   
## 2425 1.006 3.03e-05 0.00347   
## 2426 1.006 2.51e-05 0.00380   
## 2427 1.001 3.44e-04 0.00367   
## 2428 1.005 1.19e-05 0.00285   
## 2429 1.006 1.04e-04 0.00416   
## 2430 1.004 2.09e-05 0.00218   
## 2431 1.004 1.63e-04 0.00352   
## 2432 1.002 1.79e-04 0.00285   
## 2433 1.004 6.69e-05 0.00287   
## 2434 1.003 2.47e-04 0.00405   
## 2435 1.005 2.51e-06 0.00205   
## 2436 1.005 1.02e-05 0.00225   
## 2437 0.997 5.01e-04 0.00315   
## 2438 1.004 6.53e-05 0.00246   
## 2439 1.006 2.73e-08 0.00300   
## 2440 1.002 1.31e-04 0.00225   
## 2441 1.004 1.16e-04 0.00294   
## 2442 1.002 1.40e-04 0.00231   
## 2443 0.999 2.20e-04 0.00200   
## 2444 1.004 9.18e-05 0.00295   
## 2445 1.004 1.68e-04 0.00361   
## 2446 1.006 8.09e-08 0.00313   
## 2447 0.999 4.31e-04 0.00340   
## 2448 1.002 1.02e-04 0.00193   
## 2449 0.995 3.33e-04 0.00198   
## 2450 1.006 2.37e-06 0.00297   
## 2451 1.002 2.34e-04 0.00329   
## 2452 1.005 8.82e-09 0.00216   
## 2453 1.005 9.96e-05 0.00348   
## 2454 1.004 1.25e-04 0.00332   
## 2455 1.004 3.14e-05 0.00202   
## 2456 1.005 1.06e-06 0.00188   
## 2457 1.006 4.05e-06 0.00341   
## 2458 1.006 1.44e-04 0.00470   
## 2459 0.997 4.55e-04 0.00292   
## 2460 1.002 6.01e-05 0.00161   
## 2461 1.001 3.76e-04 0.00391   
## 2462 1.005 4.36e-06 0.00230   
## 2463 1.004 8.26e-05 0.00252   
## 2464 1.002 3.49e-04 0.00408   
## 2465 1.004 2.56e-06 0.00129   
## 2466 1.006 6.20e-08 0.00275   
## 2467 0.998 3.04e-04 0.00229   
## 2468 1.005 2.31e-05 0.00260   
## 2469 1.004 1.83e-05 0.00208   
## 2470 1.001 1.37e-04 0.00203   
## 2471 1.007 1.19e-06 0.00385   
## 2472 1.006 1.29e-05 0.00295   
## 2473 0.999 3.95e-04 0.00306   
## 2474 1.002 7.39e-05 0.00181   
## 2475 1.006 9.03e-07 0.00299   
## 2476 0.999 3.67e-04 0.00304   
## 2477 1.006 3.12e-07 0.00335   
## 2478 1.002 1.31e-04 0.00230   
## 2479 0.998 5.53e-04 0.00382   
## 2480 1.004 1.36e-05 0.00191   
## 2481 1.001 1.29e-04 0.00212   
## 2482 1.002 2.01e-04 0.00307   
## 2483 1.006 1.02e-05 0.00294   
## 2484 0.993 6.34e-04 0.00283   
## 2485 1.006 5.59e-06 0.00297   
## 2486 1.005 1.47e-04 0.00440   
## 2487 1.005 4.43e-06 0.00250   
## 2488 1.000 5.85e-04 0.00434   
## 2489 0.997 5.16e-04 0.00319   
## 2490 0.998 2.53e-04 0.00205   
## 2491 1.005 4.93e-06 0.00184   
## 2492 1.005 1.33e-06 0.00209   
## 2493 1.005 2.86e-05 0.00237   
## 2494 1.005 4.43e-05 0.00296   
## 2495 1.007 4.73e-06 0.00399   
## 2496 1.006 4.46e-08 0.00299   
## 2497 1.005 1.19e-05 0.00277   
## 2498 1.006 4.84e-08 0.00304   
## 2499 1.005 9.23e-08 0.00177   
## 2500 1.001 1.62e-04 0.00216   
## 2501 1.005 3.21e-06 0.00197   
## 2502 1.007 4.17e-07 0.00368   
## 2503 1.006 2.51e-08 0.00309   
## 2504 1.005 1.68e-05 0.00246   
## 2505 1.006 2.10e-07 0.00310   
## 2506 1.002 7.03e-05 0.00169   
## 2507 1.005 1.96e-04 0.00430   
## 2508 1.006 3.25e-05 0.00357   
## 2509 1.005 2.62e-06 0.00192   
## 2510 1.002 1.49e-04 0.00260   
## 2511 1.005 3.14e-06 0.00241   
## 2512 1.004 5.37e-05 0.00212   
## 2513 1.003 1.23e-04 0.00248   
## 2514 0.999 2.74e-04 0.00234   
## 2515 0.996 5.99e-04 0.00332   
## 2516 1.006 1.40e-06 0.00318   
## 2517 1.001 1.81e-04 0.00244   
## 2518 1.006 2.91e-05 0.00320   
## 2519 1.004 1.27e-06 0.00155   
## 2520 1.006 2.02e-05 0.00326   
## 2521 1.006 6.51e-07 0.00327   
## 2522 0.991 4.23e-04 0.00181 \*  
## 2523 1.002 7.95e-05 0.00187   
## 2524 1.002 1.32e-04 0.00230   
## 2525 0.991 1.13e-03 0.00406 \*  
## 2526 0.998 3.88e-04 0.00290   
## 2527 1.006 4.53e-09 0.00304   
## 2528 1.003 1.68e-04 0.00322   
## 2529 1.007 5.35e-06 0.00436   
## 2530 1.006 3.67e-06 0.00288   
## 2531 1.006 1.18e-06 0.00285   
## 2532 0.989 6.07e-04 0.00218 \*  
## 2533 1.006 4.00e-06 0.00287   
## 2534 1.006 7.07e-05 0.00446   
## 2535 1.005 2.19e-06 0.00219   
## 2536 1.005 9.71e-08 0.00229   
## 2537 1.007 3.42e-06 0.00391   
## 2538 1.005 6.86e-05 0.00355   
## 2539 1.003 2.14e-04 0.00342   
## 2540 1.004 1.88e-04 0.00410   
## 2541 1.006 2.80e-06 0.00335   
## 2542 1.004 7.69e-05 0.00298   
## 2543 1.007 1.51e-07 0.00425   
## 2544 0.998 2.53e-04 0.00198   
## 2545 1.004 2.20e-05 0.00174   
## 2546 1.005 2.77e-06 0.00216   
## 2547 1.005 1.52e-05 0.00226   
## 2548 1.005 4.47e-06 0.00202   
## 2549 1.005 5.11e-05 0.00286   
## 2550 1.003 9.90e-05 0.00250   
## 2551 1.003 1.32e-04 0.00269   
## 2552 1.004 1.41e-04 0.00343   
## 2553 1.002 7.86e-05 0.00179   
## 2554 1.004 1.68e-06 0.00150   
## 2555 1.005 5.22e-08 0.00260   
## 2556 0.997 4.44e-04 0.00292   
## 2557 1.006 1.58e-06 0.00324   
## 2558 1.007 3.06e-06 0.00436   
## 2559 1.003 2.03e-04 0.00338   
## 2560 0.998 3.96e-04 0.00291   
## 2561 1.006 2.61e-05 0.00388   
## 2562 1.005 1.22e-05 0.00209   
## 2563 0.996 5.27e-04 0.00307   
## 2564 1.005 1.36e-06 0.00225   
## 2565 1.006 3.57e-06 0.00272   
## 2566 1.001 1.29e-04 0.00192   
## 2567 1.005 7.43e-05 0.00304   
## 2568 1.006 3.66e-06 0.00289   
## 2569 1.000 2.42e-04 0.00241   
## 2570 1.001 1.73e-04 0.00248   
## 2571 1.005 5.05e-06 0.00236   
## 2572 1.005 6.49e-05 0.00338   
## 2573 1.004 3.97e-05 0.00213   
## 2574 1.001 3.63e-04 0.00374   
## 2575 1.005 8.54e-07 0.00168   
## 2576 1.001 4.56e-04 0.00413   
## 2577 1.004 1.42e-05 0.00176   
## 2578 0.998 5.27e-04 0.00352   
## 2579 1.007 4.71e-06 0.00451   
## 2580 1.007 1.26e-05 0.00396   
## 2581 1.005 2.41e-08 0.00176   
## 2582 1.006 3.29e-06 0.00275   
## 2583 1.005 8.60e-07 0.00171   
## 2584 1.004 5.13e-05 0.00210   
## 2585 1.003 6.43e-05 0.00204   
## 2586 1.003 3.02e-04 0.00403   
## 2587 1.003 1.23e-04 0.00270   
## 2588 1.004 1.47e-05 0.00161   
## 2589 1.005 8.03e-06 0.00216   
## 2590 1.005 1.04e-05 0.00246   
## 2591 1.006 2.51e-07 0.00305   
## 2592 1.005 8.13e-05 0.00322   
## 2593 1.005 1.58e-05 0.00266   
## 2594 0.998 2.25e-04 0.00201   
## 2595 1.005 2.99e-05 0.00300   
## 2596 0.998 1.69e-04 0.00158   
## 2597 1.006 5.52e-07 0.00337   
## 2598 1.005 2.33e-05 0.00243   
## 2599 1.006 1.44e-09 0.00285   
## 2600 1.000 2.48e-04 0.00262   
## 2601 1.005 1.60e-05 0.00268   
## 2602 1.002 2.06e-04 0.00307   
## 2603 1.002 8.58e-05 0.00191   
## 2604 0.996 7.25e-04 0.00390   
## 2605 0.996 3.90e-04 0.00246   
## 2606 0.995 9.08e-04 0.00434   
## 2607 1.001 1.32e-04 0.00184   
## 2608 1.004 1.78e-04 0.00407   
## 2609 1.003 1.04e-04 0.00239   
## 2610 0.990 1.03e-03 0.00356 \*  
## 2611 1.005 9.49e-06 0.00233   
## 2612 0.997 4.22e-04 0.00273   
## 2613 0.993 4.22e-04 0.00207   
## 2614 1.004 1.17e-06 0.00123   
## 2615 1.001 2.43e-04 0.00287   
## 2616 1.005 6.49e-05 0.00325   
## 2617 1.006 4.20e-06 0.00287   
## 2618 1.004 1.43e-04 0.00352   
## 2619 1.001 3.35e-04 0.00349   
## 2620 1.005 1.24e-04 0.00389   
## 2621 1.005 6.47e-05 0.00292   
## 2622 1.007 1.01e-05 0.00429   
## 2623 1.005 2.96e-06 0.00209   
## 2624 1.002 2.83e-04 0.00365   
## 2625 1.000 1.32e-04 0.00174   
## 2626 1.006 6.64e-06 0.00352   
## 2627 1.005 5.67e-05 0.00307   
## 2628 1.007 1.08e-05 0.00430   
## 2629 1.006 8.50e-06 0.00327   
## 2630 1.003 1.95e-04 0.00338   
## 2631 1.006 2.82e-07 0.00287   
## 2632 1.006 3.64e-06 0.00278   
## 2633 1.007 9.91e-07 0.00384   
## 2634 0.993 5.46e-04 0.00248   
## 2635 0.996 3.97e-04 0.00235   
## 2636 1.003 2.21e-04 0.00358   
## 2637 1.005 8.40e-05 0.00384   
## 2638 0.998 4.38e-04 0.00315   
## 2639 1.000 1.65e-04 0.00197   
## 2640 0.997 5.33e-04 0.00339   
## 2641 1.004 2.31e-05 0.00207   
## 2642 1.006 1.04e-06 0.00273   
## 2643 1.004 4.20e-05 0.00202   
## 2644 1.005 5.96e-05 0.00304   
## 2645 1.005 8.60e-07 0.00245   
## 2646 1.001 2.53e-04 0.00285   
## 2647 1.001 1.20e-04 0.00177   
## 2648 1.002 1.55e-04 0.00250   
## 2649 1.006 2.54e-05 0.00327   
## 2650 1.004 7.25e-05 0.00256   
## 2651 1.004 2.19e-04 0.00402   
## 2652 1.005 1.87e-05 0.00298   
## 2653 1.004 1.18e-04 0.00301   
## 2654 1.005 1.60e-06 0.00233   
## 2655 1.005 1.03e-06 0.00258   
## 2656 1.004 7.30e-05 0.00268   
## 2657 1.007 1.01e-06 0.00456   
## 2658 1.002 2.45e-04 0.00321   
## 2659 1.004 3.31e-05 0.00213   
## 2660 1.005 2.87e-05 0.00285   
## 2661 1.005 1.47e-04 0.00413   
## 2662 1.006 4.35e-06 0.00348   
## 2663 1.006 2.67e-06 0.00289   
## 2664 0.991 5.75e-04 0.00233 \*  
## 2665 1.001 2.41e-04 0.00304   
## 2666 1.006 5.75e-05 0.00360   
## 2667 1.006 5.68e-05 0.00391   
## 2668 1.004 1.68e-06 0.00165   
## 2669 1.002 1.97e-04 0.00286   
## 2670 1.005 5.55e-05 0.00280   
## 2671 1.005 3.04e-07 0.00172   
## 2672 1.004 2.67e-06 0.00128   
## 2673 1.001 8.95e-05 0.00141   
## 2674 1.004 1.95e-06 0.00128   
## 2675 1.002 9.50e-05 0.00204   
## 2676 1.004 3.73e-05 0.00229   
## 2677 1.007 2.35e-07 0.00394   
## 2678 0.998 2.83e-04 0.00227   
## 2679 1.002 1.60e-04 0.00247   
## 2680 1.006 2.45e-05 0.00316   
## 2681 1.007 3.94e-10 0.00380   
## 2682 1.002 1.45e-04 0.00251   
## 2683 1.003 1.62e-04 0.00327   
## 2684 1.002 1.44e-04 0.00260   
## 2685 1.006 4.95e-06 0.00282   
## 2686 1.003 1.50e-04 0.00322   
## 2687 1.004 1.20e-04 0.00308   
## 2688 1.004 4.88e-05 0.00203   
## 2689 1.006 1.43e-05 0.00306   
## 2690 1.005 1.33e-05 0.00220   
## 2691 1.006 1.46e-06 0.00271   
## 2692 1.008 6.60e-06 0.00472   
## 2693 1.005 2.16e-05 0.00231   
## 2694 1.004 2.17e-05 0.00176   
## 2695 1.001 2.83e-04 0.00338   
## 2696 1.004 8.41e-05 0.00293   
## 2697 1.005 2.18e-06 0.00233   
## 2698 1.002 7.08e-05 0.00171   
## 2699 0.999 2.21e-04 0.00223   
## 2700 1.006 8.50e-06 0.00344   
## 2701 1.006 4.08e-06 0.00285   
## 2702 1.002 2.13e-04 0.00293   
## 2703 1.003 1.52e-04 0.00308   
## 2704 1.004 1.09e-04 0.00326   
## 2705 1.004 2.27e-04 0.00416   
## 2706 1.004 3.60e-06 0.00165   
## 2707 1.000 2.81e-04 0.00271   
## 2708 1.004 1.08e-04 0.00313   
## 2709 1.004 4.28e-05 0.00202   
## 2710 1.005 5.43e-05 0.00347   
## 2711 1.005 2.75e-05 0.00296   
## 2712 1.004 7.47e-05 0.00249   
## 2713 1.004 2.18e-05 0.00209   
## 2714 1.007 2.88e-06 0.00413   
## 2715 1.007 1.01e-06 0.00435   
## 2716 0.997 3.00e-04 0.00207   
## 2717 1.003 1.05e-04 0.00235   
## 2718 1.005 3.45e-08 0.00171   
## 2719 1.004 9.14e-06 0.00164   
## 2720 1.005 3.67e-06 0.00255   
## 2721 1.003 1.54e-04 0.00296   
## 2722 1.005 1.33e-07 0.00217   
## 2723 1.004 6.58e-05 0.00250   
## 2724 1.005 1.03e-04 0.00384   
## 2725 1.003 5.99e-05 0.00210   
## 2726 1.003 8.14e-05 0.00244   
## 2727 1.006 3.68e-05 0.00337   
## 2728 1.005 1.98e-05 0.00251   
## 2729 1.001 2.40e-04 0.00303   
## 2730 1.004 1.52e-05 0.00156   
## 2731 1.003 1.56e-04 0.00284   
## 2732 1.004 1.42e-04 0.00373   
## 2733 1.005 3.70e-05 0.00263   
## 2734 1.006 3.38e-06 0.00350   
## 2735 1.006 4.84e-05 0.00363   
## 2736 0.996 2.72e-04 0.00185   
## 2737 1.004 6.20e-05 0.00239   
## 2738 1.005 2.90e-05 0.00282   
## 2739 1.006 2.88e-07 0.00284   
## 2740 1.004 8.09e-05 0.00298   
## 2741 1.005 5.57e-05 0.00301   
## 2742 1.005 5.15e-08 0.00176   
## 2743 1.004 3.26e-05 0.00193   
## 2744 1.002 2.33e-04 0.00304   
## 2745 1.005 7.89e-05 0.00327   
## 2746 1.004 2.72e-05 0.00216   
## 2747 1.003 1.58e-04 0.00320   
## 2748 0.992 1.10e-03 0.00415   
## 2749 1.004 7.10e-05 0.00288   
## 2750 1.005 1.10e-04 0.00391   
## 2751 1.006 3.85e-06 0.00272   
## 2752 0.992 3.97e-04 0.00176   
## 2753 1.006 3.45e-06 0.00355   
## 2754 1.004 1.94e-05 0.00167   
## 2755 1.005 2.56e-05 0.00266   
## 2756 1.004 7.15e-06 0.00151   
## 2757 1.002 3.11e-04 0.00372   
## 2758 1.005 1.46e-04 0.00382   
## 2759 1.007 1.17e-05 0.00402   
## 2760 1.006 9.70e-06 0.00360   
## 2761 0.998 1.30e-04 0.00131   
## 2762 1.005 1.04e-05 0.00216   
## 2763 1.006 1.21e-04 0.00429   
## 2764 1.004 7.24e-06 0.00145   
## 2765 0.990 5.85e-04 0.00219 \*  
## 2766 1.002 1.04e-04 0.00213   
## 2767 1.005 1.31e-04 0.00372   
## 2768 1.005 2.02e-05 0.00288   
## 2769 1.005 1.14e-04 0.00351   
## 2770 1.003 6.15e-05 0.00219   
## 2771 0.990 1.04e-03 0.00367 \*  
## 2772 1.001 2.05e-04 0.00266   
## 2773 1.004 1.36e-05 0.00152   
## 2774 1.001 2.13e-04 0.00264   
## 2775 1.003 7.58e-05 0.00192   
## 2776 0.990 9.32e-04 0.00327 \*  
## 2777 1.004 3.25e-04 0.00465   
## 2778 1.006 1.36e-05 0.00312   
## 2779 1.003 1.37e-04 0.00297   
## 2780 1.004 2.66e-04 0.00424   
## 2781 1.004 1.83e-04 0.00374   
## 2782 1.006 1.19e-05 0.00307   
## 2783 1.006 4.26e-06 0.00305   
## 2784 1.007 9.91e-06 0.00379   
## 2785 0.999 2.47e-04 0.00227   
## 2786 0.993 6.73e-04 0.00292   
## 2787 1.006 1.63e-06 0.00358   
## 2788 1.004 5.29e-05 0.00210   
## 2789 0.998 2.88e-04 0.00239   
## 2790 1.005 2.34e-05 0.00237   
## 2791 1.002 7.67e-05 0.00192   
## 2792 1.005 1.14e-04 0.00349   
## 2793 1.004 5.37e-05 0.00256   
## 2794 1.002 9.44e-05 0.00206   
## 2795 1.006 2.28e-06 0.00286   
## 2796 1.004 9.97e-06 0.00191   
## 2797 1.005 3.46e-05 0.00268   
## 2798 1.001 2.15e-04 0.00287   
## 2799 1.005 4.53e-07 0.00228   
## 2800 0.997 7.90e-04 0.00448   
## 2801 1.005 2.43e-05 0.00297   
## 2802 1.006 6.29e-06 0.00303   
## 2803 1.005 7.84e-06 0.00205   
## 2804 1.000 4.97e-04 0.00398   
## 2805 1.005 1.35e-04 0.00429   
## 2806 1.005 6.23e-05 0.00355   
## 2807 1.005 1.72e-07 0.00172   
## 2808 0.992 6.47e-04 0.00276   
## 2809 1.006 1.41e-06 0.00317   
## 2810 1.007 7.47e-06 0.00415   
## 2811 1.003 2.18e-04 0.00339   
## 2812 1.006 5.90e-06 0.00315   
## 2813 1.005 8.19e-08 0.00183   
## 2814 0.999 4.33e-04 0.00332   
## 2815 1.004 5.93e-05 0.00232   
## 2816 1.005 4.81e-07 0.00240   
## 2817 1.004 7.64e-05 0.00244   
## 2818 0.989 1.14e-03 0.00372 \*  
## 2819 1.005 1.02e-06 0.00254   
## 2820 1.006 4.30e-06 0.00281   
## 2821 1.004 5.17e-05 0.00214   
## 2822 1.004 6.11e-05 0.00266   
## 2823 1.002 1.17e-04 0.00217   
## 2824 1.006 1.25e-05 0.00299   
## 2825 1.002 1.02e-04 0.00186   
## 2826 1.006 8.97e-06 0.00329   
## 2827 1.005 1.20e-04 0.00372   
## 2828 1.006 2.22e-05 0.00342   
## 2829 1.006 8.13e-06 0.00353   
## 2830 1.004 1.41e-07 0.00161   
## 2831 1.007 2.18e-08 0.00372   
## 2832 1.003 1.28e-04 0.00278   
## 2833 0.992 4.04e-04 0.00178   
## 2834 1.005 8.88e-10 0.00182   
## 2835 1.005 1.47e-06 0.00183   
## 2836 1.005 9.71e-05 0.00378   
## 2837 1.003 1.47e-04 0.00288   
## 2838 1.005 1.50e-04 0.00429   
## 2839 1.005 2.03e-06 0.00196   
## 2840 1.006 8.93e-05 0.00404   
## 2841 1.001 3.28e-04 0.00357   
## 2842 1.003 2.24e-04 0.00343   
## 2843 1.002 1.85e-04 0.00283   
## 2844 1.005 2.79e-05 0.00285   
## 2845 1.004 1.55e-05 0.00158   
## 2846 1.004 1.64e-04 0.00370   
## 2847 1.005 2.47e-06 0.00251   
## 2848 1.005 9.72e-06 0.00245   
## 2849 1.005 6.39e-05 0.00293   
## 2850 1.005 1.27e-04 0.00414   
## 2851 1.005 7.13e-07 0.00170   
## 2852 1.001 1.56e-04 0.00207   
## 2853 1.007 8.09e-07 0.00375   
## 2854 1.004 4.29e-05 0.00242   
## 2855 1.006 2.46e-06 0.00290   
## 2856 1.004 1.60e-04 0.00352   
## 2857 1.003 7.49e-05 0.00196   
## 2858 1.001 1.24e-04 0.00182   
## 2859 1.002 8.00e-05 0.00180   
## 2860 1.004 1.53e-04 0.00364   
## 2861 1.006 2.25e-06 0.00291   
## 2862 0.999 2.68e-04 0.00234   
## 2863 1.004 2.47e-06 0.00125   
## 2864 1.000 1.94e-04 0.00228   
## 2865 1.003 6.24e-05 0.00190   
## 2866 1.005 4.34e-05 0.00307   
## 2867 1.003 1.06e-04 0.00230   
## 2868 1.005 8.21e-09 0.00188   
## 2869 1.002 1.16e-04 0.00199   
## 2870 1.005 5.07e-06 0.00242   
## 2871 1.002 1.33e-04 0.00221   
## 2872 1.004 1.01e-05 0.00165   
## 2873 0.996 4.77e-04 0.00291   
## 2874 1.000 2.97e-04 0.00308   
## 2875 0.996 5.22e-04 0.00305   
## 2876 0.999 2.63e-04 0.00230   
## 2877 1.005 2.74e-05 0.00312   
## 2878 1.001 1.80e-04 0.00233   
## 2879 1.006 2.55e-06 0.00287   
## 2880 1.006 9.21e-06 0.00325   
## 2881 1.006 9.31e-06 0.00317   
## 2882 1.006 3.86e-05 0.00390   
## 2883 0.998 2.19e-04 0.00176   
## 2884 1.003 1.49e-04 0.00313   
## 2885 1.007 6.30e-06 0.00450   
## 2886 0.998 6.57e-04 0.00401   
## 2887 1.002 7.93e-05 0.00188   
## 2888 1.004 2.35e-05 0.00176   
## 2889 0.994 5.65e-04 0.00270   
## 2890 0.986 9.10e-04 0.00265 \*  
## 2891 1.005 5.33e-06 0.00219   
## 2892 1.004 1.44e-05 0.00163   
## 2893 1.005 5.34e-07 0.00229   
## 2894 1.007 1.88e-04 0.00555   
## 2895 1.007 1.95e-05 0.00406   
## 2896 1.003 1.37e-04 0.00271   
## 2897 1.007 6.01e-06 0.00373   
## 2898 0.999 3.03e-04 0.00272   
## 2899 1.006 9.80e-05 0.00404   
## 2900 0.998 2.36e-04 0.00207   
## 2901 1.004 1.24e-04 0.00338   
## 2902 1.004 9.00e-05 0.00276   
## 2903 1.002 1.40e-04 0.00236   
## 2904 1.003 1.71e-04 0.00300   
## 2905 1.005 1.93e-06 0.00262   
## 2906 1.005 5.20e-06 0.00233   
## 2907 1.001 2.32e-04 0.00281   
## 2908 1.000 2.88e-04 0.00290   
## 2909 1.006 1.22e-07 0.00332   
## 2910 1.004 9.73e-05 0.00300   
## 2911 1.006 5.23e-06 0.00304   
## 2912 1.007 5.20e-05 0.00466   
## 2913 1.006 4.83e-06 0.00284   
## 2914 1.003 4.19e-04 0.00492   
## 2915 1.007 5.46e-05 0.00453   
## 2916 1.005 3.21e-05 0.00300   
## 2917 1.003 5.16e-05 0.00189   
## 2918 1.000 3.07e-04 0.00313   
## 2919 1.006 7.79e-05 0.00440   
## 2920 1.000 1.46e-04 0.00177   
## 2921 1.005 6.23e-05 0.00346   
## 2922 1.005 9.53e-07 0.00256   
## 2923 0.997 1.62e-04 0.00129   
## 2924 1.007 1.52e-05 0.00415   
## 2925 1.007 4.58e-06 0.00421   
## 2926 1.005 2.88e-06 0.00225   
## 2927 1.001 3.94e-04 0.00386   
## 2928 1.004 7.95e-05 0.00300   
## 2929 1.006 1.22e-06 0.00279   
## 2930 1.005 1.25e-05 0.00258   
## 2931 1.005 1.60e-05 0.00245   
## 2932 1.001 1.74e-04 0.00228   
## 2933 1.005 4.21e-05 0.00291   
## 2934 1.006 5.47e-05 0.00353   
## 2935 1.002 3.70e-04 0.00413   
## 2936 0.999 6.94e-04 0.00448   
## 2937 1.006 2.34e-06 0.00329   
## 2938 1.004 3.41e-07 0.00163   
## 2939 1.005 8.66e-06 0.00256   
## 2940 1.006 1.57e-04 0.00466   
## 2941 1.001 1.63e-04 0.00226   
## 2942 1.005 1.05e-04 0.00342   
## 2943 1.004 9.69e-05 0.00318   
## 2944 1.001 1.71e-04 0.00221   
## 2945 1.006 3.59e-07 0.00287   
## 2946 1.004 3.48e-05 0.00189   
## 2947 1.005 5.72e-05 0.00352   
## 2948 1.005 1.55e-05 0.00215   
## 2949 1.002 1.86e-04 0.00293   
## 2950 1.001 1.20e-04 0.00200   
## 2951 1.003 5.21e-05 0.00192   
## 2952 1.003 1.06e-04 0.00260   
## 2953 0.997 3.26e-04 0.00230   
## 2954 1.004 2.28e-05 0.00208   
## 2955 1.005 1.58e-04 0.00399   
## 2956 1.002 1.59e-04 0.00258   
## 2957 1.004 6.82e-05 0.00255   
## 2958 0.999 5.61e-04 0.00398   
## 2959 1.005 1.12e-05 0.00196   
## 2960 1.005 3.93e-05 0.00304   
## 2961 0.996 5.39e-04 0.00303   
## 2962 1.000 3.99e-04 0.00358   
## 2963 1.005 3.35e-06 0.00246   
## 2964 1.000 4.09e-04 0.00355   
## 2965 1.006 2.23e-07 0.00307   
## 2966 1.002 9.74e-05 0.00206   
## 2967 1.005 4.62e-06 0.00203   
## 2968 1.006 2.10e-06 0.00301   
## 2969 0.995 6.87e-04 0.00341   
## 2970 1.000 3.07e-04 0.00287   
## 2971 1.003 1.27e-04 0.00286   
## 2972 1.005 4.41e-05 0.00302   
## 2973 1.004 4.14e-05 0.00207   
## 2974 1.003 1.56e-04 0.00305   
## 2975 1.007 1.14e-05 0.00423   
## 2976 1.006 3.32e-06 0.00280   
## 2977 1.005 9.07e-06 0.00265   
## 2978 1.005 5.13e-07 0.00200   
## 2979 1.004 2.07e-05 0.00196   
## 2980 1.005 1.60e-05 0.00216   
## 2981 1.004 1.05e-04 0.00337   
## 2982 1.006 4.50e-05 0.00349   
## 2983 1.005 1.05e-10 0.00173   
## 2984 1.006 7.34e-06 0.00292   
## 2985 1.005 4.21e-05 0.00266   
## 2986 1.000 3.24e-04 0.00318   
## 2987 1.004 2.07e-04 0.00431   
## 2988 1.005 9.34e-05 0.00357   
## 2989 1.005 1.28e-05 0.00219   
## 2990 1.007 4.18e-07 0.00413   
## 2991 1.004 1.86e-04 0.00372   
## 2992 1.004 1.22e-04 0.00313   
## 2993 0.997 5.95e-04 0.00359   
## 2994 0.998 2.19e-04 0.00191   
## 2995 1.004 9.90e-06 0.00187   
## 2996 1.002 8.52e-05 0.00184   
## 2997 1.004 1.66e-05 0.00158   
## 2998 1.005 2.50e-05 0.00258   
## 2999 0.999 3.78e-04 0.00317   
## 3000 1.003 1.42e-04 0.00306   
## 3001 1.005 5.54e-05 0.00280   
## 3002 1.002 8.93e-05 0.00188   
## 3003 0.999 2.54e-04 0.00246   
## 3004 1.004 8.11e-06 0.00146   
## 3005 1.004 8.45e-05 0.00264   
## 3006 1.004 2.70e-04 0.00438   
## 3007 1.005 3.58e-06 0.00264   
## 3008 1.006 2.40e-06 0.00272   
## 3009 1.003 1.43e-04 0.00274   
## 3010 1.001 2.31e-04 0.00287   
## 3011 1.005 4.42e-06 0.00224   
## 3012 0.999 2.39e-04 0.00226   
## 3013 1.005 2.27e-05 0.00294   
## 3014 1.006 2.18e-08 0.00353   
## 3015 0.992 7.12e-04 0.00287   
## 3016 1.006 9.35e-06 0.00372   
## 3017 1.004 1.90e-05 0.00168   
## 3018 1.004 2.30e-05 0.00177   
## 3019 1.004 1.98e-05 0.00194   
## 3020 1.005 1.66e-05 0.00214   
## 3021 1.006 1.96e-06 0.00280   
## 3022 1.002 1.12e-04 0.00224   
## 3023 1.004 3.50e-05 0.00183   
## 3024 0.997 7.88e-04 0.00429   
## 3025 0.995 4.80e-04 0.00265   
## 3026 1.002 8.09e-05 0.00185   
## 3027 0.999 3.86e-04 0.00305   
## 3028 1.005 1.25e-06 0.00215   
## 3029 1.005 1.11e-05 0.00285   
## 3030 1.003 1.05e-04 0.00252   
## 3031 1.000 2.13e-04 0.00226   
## 3032 1.007 1.88e-06 0.00451   
## 3033 1.004 9.67e-07 0.00122   
## 3034 1.005 6.57e-05 0.00319   
## 3035 1.007 3.18e-07 0.00382   
## 3036 0.988 7.31e-04 0.00243 \*  
## 3037 1.003 1.21e-04 0.00269   
## 3038 0.994 8.56e-04 0.00384   
## 3039 1.002 3.82e-04 0.00403   
## 3040 0.998 2.18e-04 0.00179   
## 3041 1.006 3.31e-05 0.00337   
## 3042 1.005 4.08e-05 0.00258   
## 3043 0.999 4.56e-04 0.00341   
## 3044 1.002 7.32e-05 0.00173   
## 3045 0.991 4.10e-04 0.00172 \*  
## 3046 1.002 1.81e-04 0.00280   
## 3047 1.004 2.14e-05 0.00208   
## 3048 1.005 7.15e-05 0.00317   
## 3049 1.005 1.70e-05 0.00281   
## 3050 1.006 3.13e-05 0.00397   
## 3051 0.997 5.83e-04 0.00342   
## 3052 1.006 1.45e-06 0.00325   
## 3053 1.004 1.28e-06 0.00122   
## 3054 0.998 6.01e-04 0.00381   
## 3055 1.006 2.43e-08 0.00301   
## 3056 1.005 1.58e-04 0.00394   
## 3057 1.003 1.12e-04 0.00254   
## 3058 1.006 1.56e-04 0.00491   
## 3059 0.999 1.74e-04 0.00184   
## 3060 1.000 1.14e-04 0.00139   
## 3061 1.001 1.06e-04 0.00175   
## 3062 0.997 2.26e-04 0.00166   
## 3063 1.002 1.41e-04 0.00246   
## 3064 1.004 7.24e-05 0.00283   
## 3065 1.004 3.25e-05 0.00181   
## 3066 1.006 1.38e-04 0.00441   
## 3067 1.006 2.36e-06 0.00281   
## 3068 1.006 7.57e-07 0.00284   
## 3069 1.007 2.32e-05 0.00410   
## 3070 1.005 3.71e-05 0.00285   
## 3071 1.005 3.41e-05 0.00250   
## 3072 0.994 4.39e-04 0.00229   
## 3073 1.006 1.81e-08 0.00328   
## 3074 1.004 5.14e-05 0.00258   
## 3075 1.000 3.59e-04 0.00345   
## 3076 1.003 1.57e-04 0.00298   
## 3077 1.001 1.40e-04 0.00213   
## 3078 1.005 8.53e-08 0.00263   
## 3079 1.005 1.53e-07 0.00231   
## 3080 1.004 2.09e-05 0.00185   
## 3081 1.005 1.08e-04 0.00385   
## 3082 1.000 3.45e-04 0.00340   
## 3083 1.003 6.90e-05 0.00195   
## 3084 1.006 1.83e-07 0.00291   
## 3085 1.005 1.41e-05 0.00245   
## 3086 0.999 2.55e-04 0.00241   
## 3087 1.006 1.72e-05 0.00305   
## 3088 1.000 3.26e-04 0.00301   
## 3089 1.006 1.70e-05 0.00304   
## 3090 1.005 4.42e-05 0.00297   
## 3091 1.000 2.71e-04 0.00264   
## 3092 1.006 3.89e-06 0.00344   
## 3093 1.005 2.25e-05 0.00228   
## 3094 1.000 3.47e-04 0.00338   
## 3095 1.004 5.55e-06 0.00132   
## 3096 1.003 1.10e-04 0.00277   
## 3097 1.005 7.74e-05 0.00319   
## 3098 0.993 4.73e-04 0.00218   
## 3099 0.996 5.58e-04 0.00306   
## 3100 0.996 2.87e-04 0.00190   
## 3101 1.005 2.78e-05 0.00276   
## 3102 1.005 1.24e-06 0.00172   
## 3103 1.005 2.85e-08 0.00238   
## 3104 1.005 5.77e-05 0.00339   
## 3105 1.005 1.02e-06 0.00263   
## 3106 1.004 2.30e-05 0.00184   
## 3107 0.991 7.60e-04 0.00284 \*  
## 3108 1.007 1.98e-08 0.00368   
## 3109 0.999 2.05e-04 0.00198   
## 3110 1.004 1.72e-04 0.00361   
## 3111 1.002 1.77e-04 0.00260   
## 3112 1.005 1.19e-04 0.00365   
## 3113 1.006 3.22e-05 0.00325   
## 3114 1.004 1.08e-07 0.00149   
## 3115 1.002 1.51e-04 0.00245   
## 3116 1.006 1.01e-08 0.00288   
## 3117 0.998 6.31e-04 0.00390   
## 3118 1.007 8.98e-07 0.00427   
## 3119 0.999 1.27e-04 0.00142   
## 3120 1.005 3.20e-05 0.00300   
## 3121 1.004 1.89e-05 0.00174   
## 3122 1.006 2.31e-05 0.00390   
## 3123 0.997 4.50e-04 0.00287   
## 3124 1.005 1.76e-05 0.00246   
## 3125 1.005 3.39e-05 0.00298   
## 3126 1.006 3.71e-05 0.00362   
## 3127 1.006 2.22e-05 0.00357   
## 3128 0.999 2.44e-04 0.00234   
## 3129 1.007 6.38e-06 0.00435   
## 3130 1.005 2.17e-06 0.00254   
## 3131 1.001 2.45e-04 0.00293   
## 3132 1.000 1.12e-04 0.00136   
## 3133 1.003 7.98e-05 0.00226   
## 3134 0.997 2.09e-04 0.00167   
## 3135 0.997 6.83e-04 0.00402   
## 3136 1.001 1.81e-04 0.00227   
## 3137 1.005 2.61e-04 0.00485   
## 3138 0.991 4.16e-04 0.00179 \*  
## 3139 1.005 1.66e-04 0.00417   
## 3140 1.004 1.72e-05 0.00169   
## 3141 1.001 1.68e-04 0.00243   
## 3142 1.004 2.39e-04 0.00407   
## 3143 1.001 3.39e-04 0.00360   
## 3144 1.005 5.93e-05 0.00307   
## 3145 1.004 1.16e-04 0.00323   
## 3146 1.002 1.52e-04 0.00269   
## 3147 1.002 1.59e-04 0.00283   
## 3148 1.004 1.33e-04 0.00353   
## 3149 1.004 5.58e-05 0.00241   
## 3150 1.000 2.91e-04 0.00275   
## 3151 1.005 1.51e-06 0.00175   
## 3152 1.004 9.47e-06 0.00173   
## 3153 0.995 2.94e-04 0.00181   
## 3154 0.997 4.68e-04 0.00294   
## 3155 0.992 5.75e-04 0.00252   
## 3156 1.006 2.34e-05 0.00381   
## 3157 1.004 5.50e-06 0.00140   
## 3158 1.002 2.04e-04 0.00311   
## 3159 1.002 2.44e-04 0.00320   
## 3160 1.000 1.88e-04 0.00222   
## 3161 1.004 2.22e-06 0.00138   
## 3162 1.005 5.35e-05 0.00319   
## 3163 1.006 1.25e-05 0.00348   
## 3164 1.005 3.18e-06 0.00228   
## 3165 1.006 1.88e-06 0.00316   
## 3166 1.001 2.22e-04 0.00272   
## 3167 1.005 7.44e-06 0.00232   
## 3168 1.001 2.46e-04 0.00292   
## 3169 1.004 7.44e-06 0.00183   
## 3170 1.005 9.65e-05 0.00376   
## 3171 1.002 2.45e-04 0.00355   
## 3172 1.005 5.82e-07 0.00255   
## 3173 1.007 1.06e-05 0.00465   
## 3174 0.995 8.18e-04 0.00395   
## 3175 1.005 5.66e-06 0.00222   
## 3176 1.004 2.20e-05 0.00174   
## 3177 1.006 2.39e-06 0.00329   
## 3178 1.005 9.36e-05 0.00342   
## 3179 1.003 3.10e-04 0.00443   
## 3180 1.005 5.05e-07 0.00259   
## 3181 1.001 4.23e-04 0.00389   
## 3182 1.005 4.21e-06 0.00181   
## 3183 1.003 1.62e-04 0.00293   
## 3184 0.995 3.16e-04 0.00193   
## 3185 1.004 1.23e-05 0.00192   
## 3186 1.007 4.99e-07 0.00378   
## 3187 1.003 2.28e-04 0.00369   
## 3188 1.006 4.72e-07 0.00265   
## 3189 1.006 6.16e-06 0.00306   
## 3190 0.999 7.04e-04 0.00454   
## 3191 1.001 2.39e-04 0.00285   
## 3192 1.004 1.38e-05 0.00179   
## 3193 0.997 6.07e-04 0.00355   
## 3194 1.001 1.37e-04 0.00219   
## 3195 1.006 3.05e-06 0.00272   
## 3196 0.997 2.96e-04 0.00222   
## 3197 1.006 2.42e-05 0.00364   
## 3198 1.001 1.69e-04 0.00226   
## 3199 1.005 2.42e-05 0.00232   
## 3200 1.005 1.82e-06 0.00250   
## 3201 1.005 3.84e-08 0.00244   
## 3202 1.004 1.94e-05 0.00166   
## 3203 1.004 3.54e-05 0.00214   
## 3204 1.005 4.34e-05 0.00316   
## 3205 1.004 4.13e-05 0.00212   
## 3206 1.007 5.76e-06 0.00399   
## 3207 1.004 4.27e-06 0.00138   
## 3208 1.003 1.23e-04 0.00286   
## 3209 1.006 1.84e-05 0.00351   
## 3210 1.003 1.17e-04 0.00286   
## 3211 1.002 1.25e-04 0.00222   
## 3212 0.997 4.58e-04 0.00294   
## 3213 1.004 4.27e-05 0.00200   
## 3214 1.006 7.51e-06 0.00357   
## 3215 1.005 5.27e-06 0.00248   
## 3216 1.006 1.49e-05 0.00299   
## 3217 1.003 1.58e-04 0.00323   
## 3218 1.003 9.09e-05 0.00239   
## 3219 1.004 1.77e-04 0.00402   
## 3220 1.001 2.84e-04 0.00304   
## 3221 1.002 1.70e-04 0.00279   
## 3222 1.004 1.84e-05 0.00160   
## 3223 1.002 1.63e-04 0.00281   
## 3224 1.003 6.90e-05 0.00199   
## 3225 1.003 5.71e-05 0.00179   
## 3226 1.005 6.72e-06 0.00246   
## 3227 1.005 8.61e-05 0.00379   
## 3228 1.005 2.66e-06 0.00267   
## 3229 1.003 3.43e-04 0.00433   
## 3230 1.005 3.82e-07 0.00190   
## 3231 1.007 2.46e-06 0.00383   
## 3232 1.003 9.17e-05 0.00245   
## 3233 1.005 2.68e-06 0.00248   
## 3234 1.005 3.18e-09 0.00178   
## 3235 1.004 6.47e-05 0.00227   
## 3236 0.994 6.59e-04 0.00308   
## 3237 0.991 4.11e-04 0.00178   
## 3238 1.006 5.85e-06 0.00305   
## 3239 1.003 2.01e-04 0.00334   
## 3240 1.003 1.09e-04 0.00249   
## 3241 0.997 6.27e-04 0.00369   
## 3242 0.998 3.15e-04 0.00252   
## 3243 1.006 6.23e-06 0.00294   
## 3244 1.004 7.30e-05 0.00267   
## 3245 1.004 1.24e-04 0.00322   
## 3246 1.005 2.64e-05 0.00233   
## 3247 1.001 2.99e-04 0.00316   
## 3248 1.005 5.91e-05 0.00321   
## 3249 1.002 1.83e-04 0.00270   
## 3250 0.998 4.27e-04 0.00296   
## 3251 1.006 2.79e-05 0.00347   
## 3252 1.005 1.31e-05 0.00260   
## 3253 0.999 2.43e-04 0.00232   
## 3254 1.002 1.90e-04 0.00289   
## 3255 0.999 1.63e-04 0.00172   
## 3256 0.997 4.04e-04 0.00260   
## 3257 1.005 1.25e-05 0.00213   
## 3258 0.999 3.60e-04 0.00302   
## 3259 1.007 2.46e-05 0.00426   
## 3260 1.001 3.67e-04 0.00382   
## 3261 0.998 2.32e-04 0.00204   
## 3262 1.005 1.61e-05 0.00271   
## 3263 1.005 4.38e-10 0.00181   
## 3264 1.005 1.03e-04 0.00364   
## 3265 1.006 2.53e-09 0.00277   
## 3266 0.996 5.69e-04 0.00316   
## 3267 1.005 7.47e-05 0.00304   
## 3268 1.002 1.35e-04 0.00254   
## 3269 0.997 2.74e-04 0.00195   
## 3270 1.002 1.43e-04 0.00255   
## 3271 1.005 5.88e-06 0.00273   
## 3272 1.002 8.69e-05 0.00183   
## 3273 1.004 5.17e-06 0.00161   
## 3274 1.006 1.18e-07 0.00314   
## 3275 1.005 4.77e-06 0.00236   
## 3276 1.006 5.67e-06 0.00335   
## 3277 1.005 1.03e-04 0.00351   
## 3278 1.005 3.93e-05 0.00256   
## 3279 1.006 4.62e-07 0.00307   
## 3280 1.000 1.72e-04 0.00215   
## 3281 1.006 1.60e-05 0.00328   
## 3282 1.002 1.26e-04 0.00213   
## 3283 1.001 2.27e-04 0.00295   
## 3284 1.005 3.05e-06 0.00238   
## 3285 1.003 1.86e-04 0.00336   
## 3286 1.004 1.40e-04 0.00367   
## 3287 1.005 1.31e-05 0.00263   
## 3288 1.001 3.39e-04 0.00355   
## 3289 1.001 2.47e-04 0.00312   
## 3290 1.001 1.29e-04 0.00205   
## 3291 1.005 3.53e-05 0.00259   
## 3292 1.004 7.09e-05 0.00245   
## 3293 1.006 4.73e-06 0.00294   
## 3294 1.004 2.12e-05 0.00171   
## 3295 1.005 5.44e-06 0.00240   
## 3296 1.004 1.18e-06 0.00145   
## 3297 1.002 8.46e-05 0.00191   
## 3298 1.000 1.97e-04 0.00213   
## 3299 1.002 2.16e-04 0.00291   
## 3300 1.005 2.57e-05 0.00309   
## 3301 1.000 2.72e-04 0.00283   
## 3302 1.001 2.85e-04 0.00333   
## 3303 1.006 5.57e-06 0.00337   
## 3304 1.006 1.95e-05 0.00326   
## 3305 1.004 2.09e-06 0.00124   
## 3306 1.003 1.30e-04 0.00290   
## 3307 1.006 8.63e-05 0.00435   
## 3308 1.004 2.33e-05 0.00177   
## 3309 1.004 2.01e-05 0.00181   
## 3310 1.004 7.43e-05 0.00286   
## 3311 1.005 3.53e-05 0.00259   
## 3312 1.007 6.45e-05 0.00480   
## 3313 1.006 1.07e-05 0.00328   
## 3314 0.998 4.74e-04 0.00324   
## 3315 1.000 2.98e-04 0.00292   
## 3316 1.004 1.83e-04 0.00392   
## 3317 1.006 3.50e-07 0.00288   
## 3318 1.004 6.83e-05 0.00236   
## 3319 1.005 8.56e-06 0.00238   
## 3320 0.999 2.48e-04 0.00233   
## 3321 1.003 6.59e-05 0.00206   
## 3322 0.994 9.20e-04 0.00395   
## 3323 1.006 3.38e-05 0.00323   
## 3324 0.997 1.68e-04 0.00131   
## 3325 1.004 8.38e-05 0.00287   
## 3326 1.000 2.62e-04 0.00259   
## 3327 0.997 2.54e-04 0.00179   
## 3328 1.006 7.08e-07 0.00329   
## 3329 0.999 1.92e-04 0.00192   
## 3330 1.004 3.24e-05 0.00209   
## 3331 1.005 2.36e-06 0.00211   
## 3332 0.996 2.01e-04 0.00145   
## 3333 1.001 2.42e-04 0.00298   
## 3334 1.004 1.88e-05 0.00201   
## 3335 1.004 7.16e-05 0.00256   
## 3336 1.006 6.80e-05 0.00414   
## 3337 1.006 4.86e-05 0.00362   
## 3338 1.005 5.26e-06 0.00189   
## 3339 1.001 8.86e-05 0.00159   
## 3340 1.005 3.15e-05 0.00249   
## 3341 0.994 5.07e-04 0.00253   
## 3342 1.005 6.27e-07 0.00191   
## 3343 1.005 7.70e-05 0.00314   
## 3344 1.004 8.19e-05 0.00258   
## 3345 0.997 2.26e-04 0.00178   
## 3346 0.995 4.96e-04 0.00258   
## 3347 1.004 6.06e-05 0.00231   
## 3348 0.999 3.33e-04 0.00296   
## 3349 1.007 5.94e-06 0.00423   
## 3350 1.006 4.16e-08 0.00362   
## 3351 0.998 3.71e-04 0.00281   
## 3352 0.999 4.88e-04 0.00354   
## 3353 1.005 1.32e-05 0.00261   
## 3354 1.004 2.25e-05 0.00182   
## 3355 1.001 1.53e-04 0.00226   
## 3356 1.008 1.11e-05 0.00513   
## 3357 0.996 3.79e-04 0.00238   
## 3358 1.006 1.14e-05 0.00371   
## 3359 1.002 2.01e-04 0.00297   
## 3360 1.005 2.12e-06 0.00199   
## 3361 1.001 1.70e-04 0.00230   
## 3362 1.006 1.31e-06 0.00287   
## 3363 1.003 1.05e-04 0.00249   
## 3364 1.002 1.97e-04 0.00315   
## 3365 1.007 4.40e-05 0.00493   
## 3366 0.992 5.20e-04 0.00225   
## 3367 1.004 1.40e-04 0.00351   
## 3368 1.003 6.46e-05 0.00223   
## 3369 0.997 5.54e-04 0.00351   
## 3370 1.005 1.50e-05 0.00268   
## 3371 1.004 4.33e-05 0.00256   
## 3372 1.005 1.83e-06 0.00265   
## 3373 1.005 3.29e-05 0.00298   
## 3374 1.004 2.22e-05 0.00180   
## 3375 1.005 3.34e-05 0.00299   
## 3376 1.005 1.15e-05 0.00270   
## 3377 1.005 6.03e-06 0.00245   
## 3378 1.002 9.61e-05 0.00202   
## 3379 1.001 1.88e-04 0.00256   
## 3380 1.003 5.55e-05 0.00180   
## 3381 1.006 4.43e-06 0.00337   
## 3382 1.004 1.92e-05 0.00163   
## 3383 1.008 6.26e-06 0.00480   
## 3384 0.997 1.92e-04 0.00147   
## 3385 1.005 1.94e-07 0.00219   
## 3386 1.004 1.89e-05 0.00173   
## 3387 1.006 1.82e-05 0.00347   
## 3388 1.005 3.36e-05 0.00310   
## 3389 1.005 3.24e-05 0.00269   
## 3390 1.006 2.26e-05 0.00378   
## 3391 1.006 1.68e-05 0.00332   
## 3392 1.005 3.46e-06 0.00220   
## 3393 1.005 2.65e-05 0.00276   
## 3394 1.005 3.21e-05 0.00300   
## 3395 1.000 2.76e-04 0.00270   
## 3396 1.005 1.86e-07 0.00251   
## 3397 1.003 1.03e-04 0.00270   
## 3398 1.004 2.06e-05 0.00192   
## 3399 1.006 2.76e-06 0.00289   
## 3400 1.007 3.24e-05 0.00418   
## 3401 1.004 2.55e-06 0.00130   
## 3402 1.007 2.40e-07 0.00384   
## 3403 0.996 3.68e-04 0.00226   
## 3404 1.005 7.54e-06 0.00278   
## 3405 0.998 3.63e-04 0.00263   
## 3406 0.999 2.77e-04 0.00256   
## 3407 1.007 1.97e-05 0.00441   
## 3408 1.000 1.91e-04 0.00225   
## 3409 1.007 2.26e-06 0.00426   
## 3410 0.994 6.90e-04 0.00331   
## 3411 1.004 1.94e-04 0.00369   
## 3412 1.005 5.98e-05 0.00343   
## 3413 1.005 6.36e-05 0.00311   
## 3414 1.008 4.07e-06 0.00473   
## 3415 1.005 1.13e-04 0.00361   
## 3416 1.006 1.98e-06 0.00335   
## 3417 1.007 3.04e-08 0.00366   
## 3418 0.995 4.78e-04 0.00263   
## 3419 1.002 7.62e-05 0.00177   
## 3420 1.003 1.33e-04 0.00264   
## 3421 1.001 7.53e-05 0.00129   
## 3422 0.997 2.89e-04 0.00199   
## 3423 0.998 5.49e-04 0.00371   
## 3424 1.005 9.37e-07 0.00211   
## 3425 1.007 2.19e-05 0.00410   
## 3426 1.002 1.10e-04 0.00211   
## 3427 1.005 4.22e-06 0.00201   
## 3428 1.004 3.27e-05 0.00231   
## 3429 1.005 3.95e-05 0.00253   
## 3430 0.997 1.83e-04 0.00148   
## 3431 1.005 7.72e-06 0.00197   
## 3432 1.004 4.19e-05 0.00251   
## 3433 1.003 8.50e-05 0.00206   
## 3434 0.993 8.01e-04 0.00335   
## 3435 1.005 6.89e-06 0.00186   
## 3436 1.006 1.53e-05 0.00316   
## 3437 1.001 1.74e-04 0.00247   
## 3438 1.006 7.33e-05 0.00380   
## 3439 1.006 4.04e-05 0.00392   
## 3440 1.003 9.38e-05 0.00234   
## 3441 1.004 3.85e-05 0.00227   
## 3442 1.003 9.00e-05 0.00248   
## 3443 0.997 5.59e-04 0.00340   
## 3444 1.004 7.38e-05 0.00254   
## 3445 1.004 6.52e-05 0.00262   
## 3446 1.005 8.49e-05 0.00364   
## 3447 1.001 1.04e-04 0.00177   
## 3448 1.005 5.70e-05 0.00283   
## 3449 1.005 2.19e-04 0.00480   
## 3450 1.003 5.70e-05 0.00197   
## 3451 1.006 2.40e-07 0.00322   
## 3452 1.004 4.29e-05 0.00208   
## 3453 1.001 1.66e-04 0.00216   
## 3454 1.005 1.13e-05 0.00267   
## 3455 1.004 1.11e-04 0.00299   
## 3456 1.006 2.21e-07 0.00336   
## 3457 1.003 7.63e-05 0.00218   
## 3458 1.002 1.84e-04 0.00272   
## 3459 1.002 1.95e-04 0.00296   
## 3460 1.001 8.83e-05 0.00161   
## 3461 1.006 1.04e-06 0.00279   
## 3462 1.004 5.62e-05 0.00245   
## 3463 1.005 2.18e-05 0.00223   
## 3464 0.996 3.78e-04 0.00228   
## 3465 1.004 7.65e-05 0.00249   
## 3466 1.004 2.12e-06 0.00138   
## 3467 1.004 1.52e-04 0.00331   
## 3468 0.998 3.35e-04 0.00269   
## 3469 1.006 6.82e-05 0.00403   
## 3470 1.005 1.28e-05 0.00214   
## 3471 1.005 9.95e-05 0.00351   
## 3472 0.998 1.53e-04 0.00139   
## 3473 1.004 1.28e-04 0.00318   
## 3474 0.997 2.27e-04 0.00179   
## 3475 1.005 9.29e-06 0.00269   
## 3476 1.002 1.25e-04 0.00216   
## 3477 1.003 7.45e-05 0.00217   
## 3478 1.002 1.60e-04 0.00263   
## 3479 1.003 2.21e-04 0.00349   
## 3480 1.002 7.77e-05 0.00160   
## 3481 1.005 5.77e-05 0.00331   
## 3482 1.005 3.83e-06 0.00187   
## 3483 1.002 1.98e-04 0.00294   
## 3484 1.005 6.63e-05 0.00325   
## 3485 0.997 4.00e-04 0.00267   
## 3486 1.006 1.27e-05 0.00314   
## 3487 1.003 1.57e-04 0.00332   
## 3488 1.002 1.23e-04 0.00226   
## 3489 1.003 1.37e-04 0.00286   
## 3490 1.003 6.25e-05 0.00207   
## 3491 1.003 1.06e-04 0.00271   
## 3492 0.997 3.34e-04 0.00230   
## 3493 0.996 4.48e-04 0.00266   
## 3494 0.992 3.98e-04 0.00176   
## 3495 1.004 6.78e-05 0.00270   
## 3496 1.006 1.50e-07 0.00352   
## 3497 1.005 7.49e-05 0.00351   
## 3498 1.005 3.53e-05 0.00280   
## 3499 1.005 1.32e-05 0.00245   
## 3500 1.002 1.57e-04 0.00261   
## 3501 1.001 2.28e-04 0.00276   
## 3502 1.004 1.97e-05 0.00170   
## 3503 1.005 6.33e-08 0.00251   
## 3504 1.001 1.03e-04 0.00177   
## 3505 0.996 1.98e-04 0.00145   
## 3506 1.005 8.28e-08 0.00246   
## 3507 1.006 8.55e-06 0.00322   
## 3508 1.005 1.39e-05 0.00260   
## 3509 1.005 1.30e-05 0.00264   
## 3510 1.004 5.19e-05 0.00234   
## 3511 0.997 2.26e-04 0.00166   
## 3512 0.986 9.85e-04 0.00287 \*  
## 3513 1.004 2.23e-05 0.00181   
## 3514 1.000 2.42e-04 0.00267   
## 3515 1.005 1.76e-05 0.00212   
## 3516 1.006 1.98e-06 0.00273   
## 3517 1.004 9.69e-08 0.00134   
## 3518 1.005 2.00e-06 0.00238   
## 3519 1.003 7.74e-05 0.00240   
## 3520 0.999 3.60e-04 0.00296   
## 3521 0.998 4.29e-04 0.00315   
## 3522 1.003 1.23e-04 0.00264   
## 3523 0.992 4.13e-04 0.00181   
## 3524 0.998 4.28e-04 0.00303   
## 3525 1.004 1.85e-04 0.00362   
## 3526 1.004 4.26e-06 0.00142   
## 3527 0.998 3.59e-04 0.00269   
## 3528 1.004 2.03e-05 0.00184   
## 3529 0.993 8.55e-04 0.00363   
## 3530 1.005 1.12e-05 0.00218   
## 3531 0.997 3.43e-04 0.00235   
## 3532 1.006 2.55e-05 0.00315   
## 3533 1.006 2.14e-05 0.00351   
## 3534 0.997 2.45e-04 0.00178   
## 3535 1.006 4.32e-06 0.00280   
## 3536 1.007 6.77e-05 0.00491   
## 3537 1.006 3.69e-05 0.00400   
## 3538 1.006 6.02e-06 0.00330   
## 3539 0.999 3.62e-04 0.00313   
## 3540 1.001 1.70e-04 0.00231   
## 3541 1.005 1.39e-05 0.00281   
## 3542 1.006 8.46e-06 0.00298   
## 3543 1.007 5.83e-06 0.00408   
## 3544 1.005 2.08e-05 0.00273   
## 3545 0.999 2.67e-04 0.00250   
## 3546 1.003 1.30e-04 0.00268   
## 3547 1.007 7.07e-06 0.00379   
## 3548 1.005 1.94e-06 0.00264   
## 3549 0.999 2.28e-04 0.00211   
## 3550 1.001 1.05e-04 0.00182   
## 3551 1.005 8.03e-06 0.00193   
## 3552 1.005 2.23e-04 0.00487   
## 3553 1.002 2.00e-04 0.00285   
## 3554 1.005 2.85e-07 0.00173   
## 3555 1.002 6.76e-05 0.00179   
## 3556 0.999 2.45e-04 0.00235   
## 3557 1.004 9.01e-05 0.00313   
## 3558 1.000 3.06e-04 0.00311   
## 3559 1.005 4.50e-05 0.00331   
## 3560 0.997 2.72e-04 0.00204   
## 3561 1.006 1.57e-05 0.00327   
## 3562 1.001 3.63e-04 0.00365   
## 3563 1.001 2.66e-04 0.00314   
## 3564 1.004 5.12e-06 0.00130   
## 3565 1.005 1.76e-06 0.00219   
## 3566 1.004 1.03e-04 0.00303   
## 3567 1.000 2.53e-04 0.00266   
## 3568 1.005 1.41e-05 0.00260   
## 3569 1.004 4.42e-05 0.00203   
## 3570 1.006 1.10e-04 0.00467   
## 3571 1.006 3.96e-09 0.00356   
## 3572 0.992 7.91e-04 0.00321   
## 3573 1.006 2.98e-05 0.00374   
## 3574 1.002 1.55e-04 0.00267   
## 3575 0.999 5.08e-04 0.00376   
## 3576 1.005 3.22e-05 0.00256   
## 3577 0.996 2.77e-04 0.00186   
## 3578 1.006 4.21e-05 0.00379   
## 3579 1.000 2.57e-04 0.00280   
## 3580 1.006 1.47e-04 0.00466   
## 3581 0.996 7.51e-04 0.00388   
## 3582 1.004 7.58e-05 0.00301   
## 3583 1.003 2.77e-04 0.00408   
## 3584 1.005 1.05e-04 0.00363   
## 3585 1.005 2.11e-06 0.00243   
## 3586 1.001 3.48e-04 0.00353   
## 3587 0.997 2.06e-04 0.00167   
## 3588 1.001 9.65e-05 0.00146   
## 3589 1.003 2.09e-04 0.00361   
## 3590 1.003 1.19e-04 0.00247   
## 3591 0.995 4.37e-04 0.00234   
## 3592 1.001 2.49e-04 0.00284   
## 3593 1.002 1.56e-04 0.00263   
## 3594 1.007 9.17e-06 0.00414   
## 3595 0.998 5.02e-04 0.00344   
## 3596 1.006 1.39e-07 0.00317   
## 3597 1.005 4.24e-05 0.00333   
## 3598 0.996 2.59e-04 0.00179   
## 3599 1.005 2.69e-06 0.00214   
## 3600 1.004 4.51e-05 0.00227   
## 3601 1.004 7.10e-05 0.00286   
## 3602 1.005 1.98e-05 0.00236   
## 3603 0.998 2.87e-04 0.00218   
## 3604 1.004 5.77e-05 0.00220   
## 3605 1.003 9.12e-05 0.00253   
## 3606 1.005 7.79e-05 0.00326   
## 3607 0.998 1.40e-04 0.00138   
## 3608 1.005 1.42e-04 0.00423   
## 3609 1.007 1.44e-06 0.00366   
## 3610 1.002 2.57e-04 0.00362   
## 3611 1.007 1.28e-05 0.00425   
## 3612 1.002 3.24e-04 0.00397   
## 3613 1.006 2.75e-05 0.00316   
## 3614 1.004 3.90e-05 0.00231   
## 3615 1.006 1.82e-04 0.00490   
## 3616 1.000 4.30e-04 0.00358   
## 3617 1.004 2.09e-05 0.00198   
## 3618 1.001 2.09e-04 0.00280   
## 3619 1.005 1.32e-04 0.00381   
## 3620 1.006 8.80e-06 0.00283   
## 3621 1.006 4.38e-05 0.00350   
## 3622 1.004 6.03e-06 0.00133   
## 3623 1.005 1.13e-04 0.00349   
## 3624 1.006 2.45e-05 0.00319   
## 3625 0.991 6.00e-04 0.00246   
## 3626 0.999 4.36e-04 0.00339   
## 3627 1.000 2.64e-04 0.00269   
## 3628 0.996 3.01e-04 0.00196   
## 3629 1.006 5.89e-08 0.00348   
## 3630 1.006 2.54e-06 0.00298   
## 3631 1.005 1.32e-05 0.00234   
## 3632 0.991 3.86e-04 0.00159 \*  
## 3633 0.999 5.07e-04 0.00366   
## 3634 1.003 1.16e-04 0.00243   
## 3635 1.002 1.99e-04 0.00295   
## 3636 1.006 7.81e-06 0.00316   
## 3637 0.998 2.93e-04 0.00238   
## 3638 1.005 3.13e-08 0.00208   
## 3639 1.005 6.60e-07 0.00264   
## 3640 1.004 1.62e-05 0.00164   
## 3641 1.005 5.87e-05 0.00314   
## 3642 0.997 2.42e-04 0.00187   
## 3643 1.003 1.09e-04 0.00277   
## 3644 1.005 5.71e-06 0.00240   
## 3645 1.007 4.86e-06 0.00449   
## 3646 1.007 5.18e-09 0.00374   
## 3647 1.000 4.22e-04 0.00380   
## 3648 1.007 3.70e-05 0.00464   
## 3649 1.003 2.01e-04 0.00336   
## 3650 1.005 6.58e-06 0.00261   
## 3651 1.007 1.72e-05 0.00473   
## 3652 1.005 3.71e-06 0.00263   
## 3653 1.004 5.49e-05 0.00258   
## 3654 1.005 1.10e-05 0.00267   
## 3655 1.005 1.32e-04 0.00394   
## 3656 1.004 8.32e-05 0.00291   
## 3657 0.995 2.79e-04 0.00171   
## 3658 0.996 3.00e-04 0.00194   
## 3659 1.003 9.09e-05 0.00216   
## 3660 1.006 5.69e-06 0.00343   
## 3661 0.998 3.98e-04 0.00295   
## 3662 1.002 4.24e-04 0.00454   
## 3663 1.005 7.61e-05 0.00371   
## 3664 1.002 1.27e-04 0.00245   
## 3665 1.006 1.17e-05 0.00287   
## 3666 1.002 6.31e-05 0.00154   
## 3667 0.995 6.05e-04 0.00306   
## 3668 0.999 1.91e-04 0.00199   
## 3669 0.996 2.52e-04 0.00173   
## 3670 1.004 2.48e-05 0.00178   
## 3671 1.006 7.83e-06 0.00291   
## 3672 1.004 1.47e-04 0.00347   
## 3673 1.005 1.16e-04 0.00419   
## 3674 0.993 4.15e-04 0.00204   
## 3675 0.999 6.21e-04 0.00443   
## 3676 1.000 1.93e-04 0.00228   
## 3677 1.001 7.57e-05 0.00127   
## 3678 1.006 3.56e-05 0.00332   
## 3679 1.001 1.18e-04 0.00190   
## 3680 1.007 2.55e-05 0.00435   
## 3681 1.001 9.29e-05 0.00163   
## 3682 0.999 5.43e-04 0.00401   
## 3683 1.002 1.68e-04 0.00268   
## 3684 1.002 8.11e-05 0.00196   
## 3685 0.999 4.18e-04 0.00346   
## 3686 1.006 4.64e-05 0.00370   
## 3687 1.004 3.19e-04 0.00462   
## 3688 1.006 3.79e-05 0.00345   
## 3689 0.988 7.95e-04 0.00253 \*  
## 3690 1.000 2.12e-04 0.00224   
## 3691 0.996 4.34e-04 0.00268   
## 3692 1.003 1.73e-04 0.00324   
## 3693 1.004 7.98e-05 0.00301   
## 3694 1.006 1.82e-05 0.00364   
## 3695 0.991 5.86e-04 0.00232 \*  
## 3696 1.005 2.20e-06 0.00219   
## 3697 1.001 1.98e-04 0.00267   
## 3698 1.005 7.35e-06 0.00197   
## 3699 1.006 5.07e-07 0.00319   
## 3700 1.005 1.56e-05 0.00291   
## 3701 1.002 2.12e-04 0.00307   
## 3702 1.005 1.39e-05 0.00254   
## 3703 1.005 5.38e-06 0.00235   
## 3704 1.002 1.45e-04 0.00229   
## 3705 1.004 6.50e-06 0.00174   
## 3706 1.006 1.18e-07 0.00302   
## 3707 1.006 2.05e-06 0.00296   
## 3708 1.000 3.38e-04 0.00315   
## 3709 1.006 1.83e-05 0.00331   
## 3710 0.997 3.32e-04 0.00233   
## 3711 1.004 8.98e-05 0.00283   
## 3712 1.005 4.47e-05 0.00291   
## 3713 1.004 1.32e-04 0.00312   
## 3714 1.004 9.88e-07 0.00125   
## 3715 1.006 8.83e-06 0.00307   
## 3716 0.992 3.97e-04 0.00174   
## 3717 1.007 1.40e-05 0.00434   
## 3718 1.004 1.13e-05 0.00189   
## 3719 1.006 2.71e-07 0.00268   
## 3720 1.001 7.93e-05 0.00150   
## 3721 1.001 1.98e-04 0.00272   
## 3722 1.004 3.85e-05 0.00209   
## 3723 1.005 1.30e-06 0.00253   
## 3724 1.005 4.87e-07 0.00256   
## 3725 0.996 3.41e-04 0.00225   
## 3726 0.997 1.57e-04 0.00128   
## 3727 1.007 4.66e-05 0.00432   
## 3728 1.008 8.98e-06 0.00482   
## 3729 1.006 1.57e-05 0.00343   
## 3730 0.995 4.59e-04 0.00260   
## 3731 1.005 2.37e-05 0.00253   
## 3732 0.999 2.26e-04 0.00218   
## 3733 1.004 1.52e-04 0.00357   
## 3734 1.004 9.67e-06 0.00165   
## 3735 0.998 2.38e-04 0.00197   
## 3736 1.006 2.79e-06 0.00309   
## 3737 1.004 1.12e-04 0.00327   
## 3738 0.994 4.98e-04 0.00251   
## 3739 1.004 1.11e-04 0.00289   
## 3740 1.003 1.10e-04 0.00247   
## 3741 1.001 1.10e-04 0.00189   
## 3742 1.004 1.58e-04 0.00364   
## 3743 1.006 1.93e-07 0.00292   
## 3744 1.005 3.49e-05 0.00257   
## 3745 1.005 1.85e-04 0.00441   
## 3746 1.005 4.97e-05 0.00338   
## 3747 1.006 3.71e-06 0.00307   
## 3748 1.004 1.33e-04 0.00342   
## 3749 1.004 2.30e-05 0.00178   
## 3750 1.002 6.76e-05 0.00152   
## 3751 0.999 3.32e-04 0.00297   
## 3752 1.006 4.36e-06 0.00336   
## 3753 1.004 7.27e-05 0.00262   
## 3754 1.003 1.10e-04 0.00262   
## 3755 0.999 2.35e-04 0.00211   
## 3756 1.006 9.14e-07 0.00286   
## 3757 1.002 1.08e-04 0.00198   
## 3758 1.003 1.11e-04 0.00242   
## 3759 1.004 2.19e-05 0.00197   
## 3760 1.004 4.90e-05 0.00230   
## 3761 0.999 4.52e-04 0.00355   
## 3762 1.006 1.02e-06 0.00315   
## 3763 1.003 8.26e-05 0.00243   
## 3764 1.005 2.53e-05 0.00266   
## 3765 1.005 3.38e-06 0.00233   
## 3766 1.002 8.19e-05 0.00184   
## 3767 1.004 1.53e-04 0.00368   
## 3768 0.999 3.95e-04 0.00308   
## 3769 1.005 7.99e-05 0.00361   
## 3770 1.001 1.84e-04 0.00229   
## 3771 1.005 7.20e-05 0.00347   
## 3772 1.005 2.64e-06 0.00183   
## 3773 1.003 1.48e-04 0.00278   
## 3774 0.982 1.65e-03 0.00378 \*  
## 3775 1.006 6.47e-07 0.00327   
## 3776 1.004 2.08e-06 0.00127   
## 3777 0.998 3.62e-04 0.00265   
## 3778 1.004 8.42e-05 0.00281   
## 3779 1.002 1.27e-04 0.00217   
## 3780 1.004 9.94e-05 0.00313   
## 3781 1.000 1.86e-04 0.00225   
## 3782 1.005 9.99e-05 0.00389   
## 3783 0.987 1.04e-03 0.00309 \*  
## 3784 1.004 1.60e-05 0.00160   
## 3785 0.990 5.66e-04 0.00209 \*  
## 3786 0.998 1.38e-04 0.00124   
## 3787 1.002 1.23e-04 0.00234   
## 3788 1.004 1.74e-05 0.00161   
## 3789 1.004 1.47e-04 0.00334   
## 3790 0.997 2.36e-04 0.00184   
## 3791 0.998 2.53e-04 0.00199   
## 3792 1.005 5.26e-05 0.00296   
## 3793 1.002 1.67e-04 0.00249   
## 3794 0.991 8.38e-04 0.00321 \*  
## 3795 1.007 7.92e-07 0.00428   
## 3796 1.002 2.50e-04 0.00328   
## 3797 1.004 2.29e-05 0.00178   
## 3798 0.992 8.78e-04 0.00350   
## 3799 0.999 2.32e-04 0.00231   
## 3800 1.002 8.16e-05 0.00197   
## 3801 1.000 2.23e-04 0.00229   
## 3802 1.002 1.52e-04 0.00243   
## 3803 1.005 2.04e-05 0.00219   
## 3804 1.005 8.15e-10 0.00172   
## 3805 1.003 8.24e-05 0.00222   
## 3806 1.004 7.22e-05 0.00242   
## 3807 1.005 1.27e-05 0.00218   
## 3808 1.005 2.38e-05 0.00290   
## 3809 1.005 7.53e-06 0.00208   
## 3810 1.002 6.68e-05 0.00148   
## 3811 1.007 1.38e-05 0.00465   
## 3812 1.005 6.72e-07 0.00219   
## 3813 1.005 1.56e-05 0.00277   
## 3814 1.006 3.91e-05 0.00351   
## 3815 1.006 2.32e-05 0.00362   
## 3816 1.003 6.36e-05 0.00204   
## 3817 0.999 5.76e-04 0.00395   
## 3818 1.005 3.42e-05 0.00275   
## 3819 1.001 1.73e-04 0.00238   
## 3820 1.005 2.17e-06 0.00197   
## 3821 1.004 1.51e-05 0.00182   
## 3822 1.005 7.80e-06 0.00260   
## 3823 1.000 1.89e-04 0.00230   
## 3824 1.005 8.41e-05 0.00332   
## 3825 1.002 3.01e-04 0.00356   
## 3826 1.005 2.66e-05 0.00290   
## 3827 1.003 2.55e-04 0.00365   
## 3828 0.990 1.02e-03 0.00350 \*  
## 3829 1.004 2.06e-06 0.00143   
## 3830 1.006 2.34e-07 0.00362   
## 3831 1.003 2.60e-04 0.00404   
## 3832 0.998 2.55e-04 0.00210   
## 3833 1.004 1.25e-05 0.00191   
## 3834 1.006 1.46e-07 0.00312   
## 3835 1.001 1.71e-04 0.00234   
## 3836 0.999 2.70e-04 0.00251   
## 3837 1.003 1.54e-04 0.00287   
## 3838 0.993 5.59e-04 0.00251   
## 3839 1.001 1.32e-04 0.00199   
## 3840 1.002 9.59e-05 0.00216   
## 3841 1.004 2.84e-05 0.00198   
## 3842 1.003 8.85e-05 0.00227   
## 3843 0.992 6.26e-04 0.00265   
## 3844 1.005 1.99e-07 0.00262   
## 3845 1.005 1.24e-07 0.00223   
## 3846 1.005 4.74e-05 0.00289   
## 3847 1.003 1.01e-04 0.00257   
## 3848 1.004 8.23e-05 0.00312   
## 3849 1.007 2.83e-06 0.00412   
## 3850 1.004 6.90e-05 0.00290   
## 3851 1.005 2.26e-05 0.00244   
## 3852 1.005 2.23e-06 0.00247   
## 3853 1.004 7.64e-05 0.00270   
## 3854 1.004 1.46e-04 0.00341   
## 3855 1.004 1.82e-04 0.00413   
## 3856 1.006 3.87e-06 0.00294   
## 3857 0.998 3.82e-04 0.00282   
## 3858 1.001 1.31e-04 0.00190   
## 3859 1.005 5.42e-05 0.00307   
## 3860 1.005 8.97e-06 0.00268   
## 3861 1.006 9.76e-05 0.00421   
## 3862 0.999 3.02e-04 0.00258   
## 3863 1.002 1.03e-04 0.00214   
## 3864 1.007 3.18e-05 0.00413   
## 3865 1.005 6.95e-05 0.00307   
## 3866 1.001 3.97e-04 0.00381   
## 3867 1.007 8.21e-07 0.00386   
## 3868 1.002 7.70e-05 0.00166   
## 3869 0.998 3.81e-04 0.00293   
## 3870 0.998 2.49e-04 0.00195   
## 3871 0.998 5.81e-04 0.00383   
## 3872 1.005 3.55e-07 0.00251   
## 3873 0.996 2.49e-04 0.00169   
## 3874 1.004 9.83e-05 0.00288   
## 3875 1.005 3.14e-05 0.00292   
## 3876 1.002 9.10e-05 0.00179   
## 3877 0.999 2.22e-04 0.00217   
## 3878 1.000 3.23e-04 0.00305   
## 3879 0.996 2.23e-04 0.00150   
## 3880 1.006 4.72e-05 0.00342   
## 3881 0.999 2.07e-04 0.00209   
## 3882 1.002 1.35e-04 0.00239   
## 3883 1.004 4.87e-06 0.00154   
## 3884 0.990 7.64e-04 0.00275 \*  
## 3885 1.005 1.47e-05 0.00268   
## 3886 1.004 1.06e-05 0.00168   
## 3887 1.002 1.89e-04 0.00297   
## 3888 1.006 5.02e-07 0.00320   
## 3889 1.005 1.97e-06 0.00217   
## 3890 1.004 5.64e-07 0.00154   
## 3891 1.005 1.49e-07 0.00258   
## 3892 1.005 2.31e-06 0.00193   
## 3893 1.003 1.35e-04 0.00279   
## 3894 1.004 6.19e-07 0.00147   
## 3895 1.005 1.03e-05 0.00267   
## 3896 1.004 1.37e-04 0.00331   
## 3897 1.006 6.76e-05 0.00375   
## 3898 1.005 5.85e-06 0.00217   
## 3899 1.000 4.17e-04 0.00364   
## 3900 1.002 1.60e-04 0.00280   
## 3901 1.003 2.37e-04 0.00351   
## 3902 1.005 2.18e-05 0.00283   
## 3903 1.005 3.06e-06 0.00248   
## 3904 0.998 2.40e-04 0.00204   
## 3905 0.993 4.20e-04 0.00195   
## 3906 1.005 9.01e-07 0.00225   
## 3907 1.005 4.11e-06 0.00271   
## 3908 1.004 9.97e-07 0.00148   
## 3909 1.006 3.29e-05 0.00331   
## 3910 1.000 2.20e-04 0.00226   
## 3911 1.002 1.33e-04 0.00222   
## 3912 1.001 1.43e-04 0.00219   
## 3913 1.004 6.85e-05 0.00240   
## 3914 1.007 8.74e-06 0.00393   
## 3915 1.005 7.63e-05 0.00377   
## 3916 1.003 1.71e-04 0.00316   
## 3917 1.003 8.21e-05 0.00210   
## 3918 0.997 4.38e-04 0.00297   
## 3919 1.006 4.62e-05 0.00380   
## 3920 1.004 1.40e-04 0.00358   
## 3921 0.994 5.95e-04 0.00280   
## 3922 0.998 3.01e-04 0.00239   
## 3923 1.005 1.50e-05 0.00283   
## 3924 1.005 1.15e-05 0.00280   
## 3925 1.006 6.44e-05 0.00378   
## 3926 1.004 9.68e-05 0.00281   
## 3927 1.004 1.46e-05 0.00180   
## 3928 1.007 4.42e-05 0.00434   
## 3929 1.006 7.90e-06 0.00279   
## 3930 1.005 1.02e-04 0.00382   
## 3931 1.004 3.78e-05 0.00214   
## 3932 1.003 6.96e-05 0.00206   
## 3933 1.002 1.91e-04 0.00295   
## 3934 1.003 1.45e-04 0.00302   
## 3935 1.005 3.44e-05 0.00302   
## 3936 0.997 2.28e-04 0.00170   
## 3937 1.002 1.46e-04 0.00267   
## 3938 1.004 7.72e-06 0.00179   
## 3939 0.996 6.69e-04 0.00356   
## 3940 0.998 6.33e-04 0.00418   
## 3941 1.004 6.96e-05 0.00264   
## 3942 1.005 6.52e-05 0.00347   
## 3943 1.004 9.33e-05 0.00323   
## 3944 1.001 2.21e-04 0.00259   
## 3945 1.006 2.59e-05 0.00333   
## 3946 1.005 4.52e-06 0.00266   
## 3947 1.002 1.98e-04 0.00291   
## 3948 0.995 4.23e-04 0.00232   
## 3949 1.002 2.41e-04 0.00343   
## 3950 1.005 9.97e-05 0.00366   
## 3951 1.005 6.01e-05 0.00333   
## 3952 1.001 1.64e-04 0.00223   
## 3953 1.006 1.92e-05 0.00365   
## 3954 1.003 1.48e-04 0.00291   
## 3955 1.003 1.76e-04 0.00310   
## 3956 1.004 7.15e-05 0.00269   
## 3957 1.005 8.14e-06 0.00252   
## 3958 1.006 1.23e-07 0.00297   
## 3959 1.002 1.24e-04 0.00219   
## 3960 1.006 2.32e-07 0.00299   
## 3961 1.004 2.70e-06 0.00171   
## 3962 1.006 1.16e-05 0.00303   
## 3963 0.998 2.30e-04 0.00204   
## 3964 1.006 4.56e-08 0.00290   
## 3965 0.988 7.09e-04 0.00235 \*  
## 3966 1.005 2.26e-05 0.00298   
## 3967 1.006 3.23e-05 0.00331   
## 3968 1.005 5.99e-05 0.00352   
## 3969 1.003 1.01e-04 0.00230   
## 3970 0.999 3.27e-04 0.00281   
## 3971 1.005 1.50e-06 0.00257   
## 3972 0.997 3.98e-04 0.00257   
## 3973 1.005 1.90e-07 0.00250   
## 3974 1.001 1.40e-04 0.00202   
## 3975 0.997 4.67e-04 0.00289   
## 3976 1.007 6.00e-06 0.00392   
## 3977 0.999 3.33e-04 0.00289   
## 3978 1.005 7.52e-06 0.00262   
## 3979 1.005 1.21e-04 0.00392   
## 3980 1.007 1.17e-06 0.00385   
## 3981 1.001 7.69e-05 0.00146   
## 3982 1.006 2.18e-06 0.00271   
## 3983 1.004 2.22e-04 0.00430   
## 3984 0.996 2.64e-04 0.00179   
## 3985 1.003 1.93e-04 0.00362   
## 3986 1.007 3.47e-06 0.00369   
## 3987 1.006 4.23e-05 0.00355   
## 3988 0.998 2.94e-04 0.00235   
## 3989 0.998 4.95e-04 0.00332   
## 3990 1.005 1.51e-06 0.00185   
## 3991 1.007 2.05e-06 0.00413   
## 3992 1.006 6.04e-06 0.00317   
## 3993 1.002 8.65e-05 0.00190   
## 3994 0.999 2.42e-04 0.00226   
## 3995 1.004 5.63e-05 0.00267   
## 3996 1.005 1.94e-05 0.00259   
## 3997 1.005 8.96e-08 0.00178   
## 3998 1.005 2.39e-05 0.00284   
## 3999 0.995 4.76e-04 0.00269   
## [ reached getOption("max.print") -- omitted 3033 rows ]

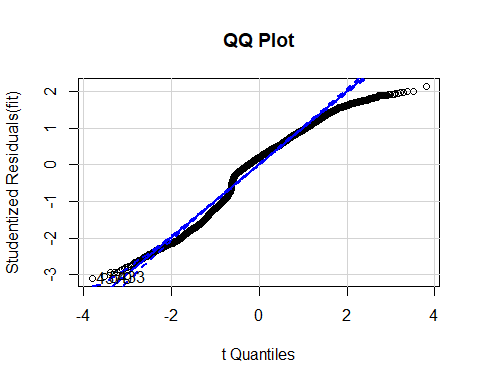
##Diagnostics Plots for visualization  
plot(fit)



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

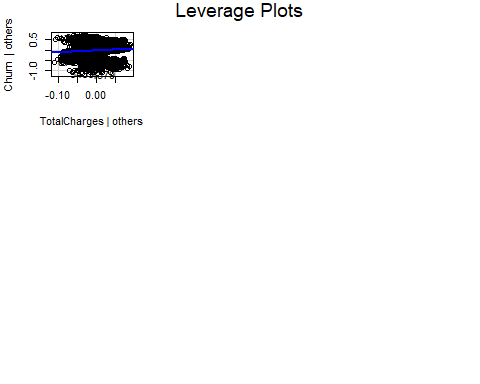
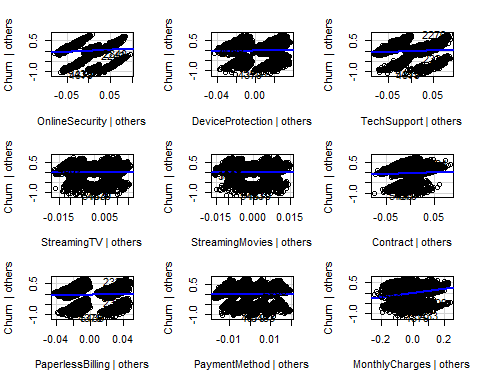
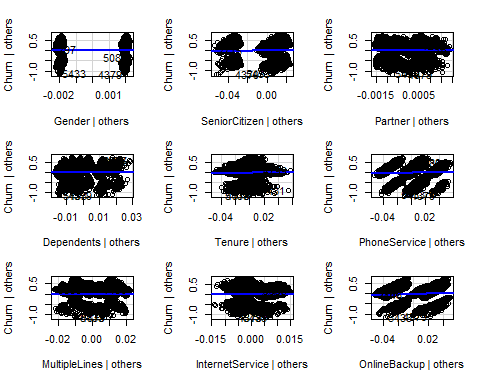
## No Studentized residuals with Bonferonni p < 0.05  
## Largest |rstudent|:  
## rstudent unadjusted p-value Bonferonni p  
## 4379 -3.101834 0.0019309 NA

qqPlot(fit, main="QQ Plot")

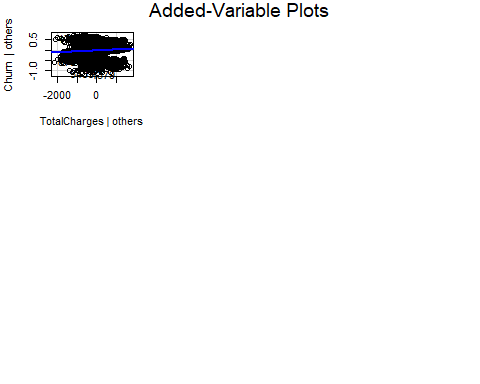
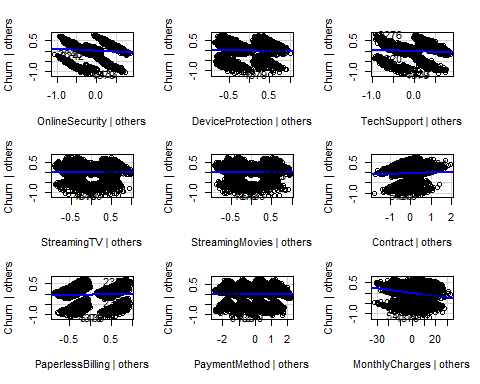
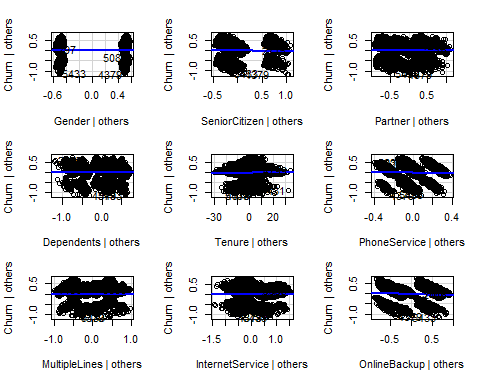


## [1] 4379 5433

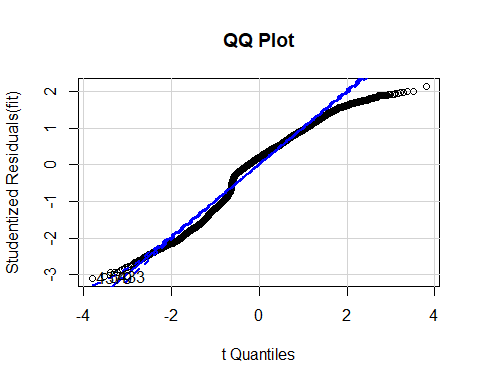
#Plotting leverage plots  
leveragePlots(fit)



# Plotting variable plots for Influential Observations  
  
avPlots(fit)

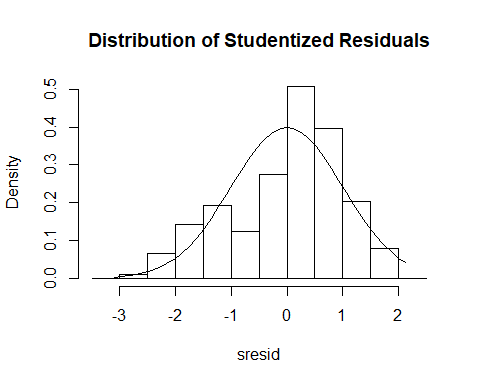


# Normality of Residuals and qqplot for studentized resid  
qqPlot(fit, main="QQ Plot")



## [1] 4379 5433

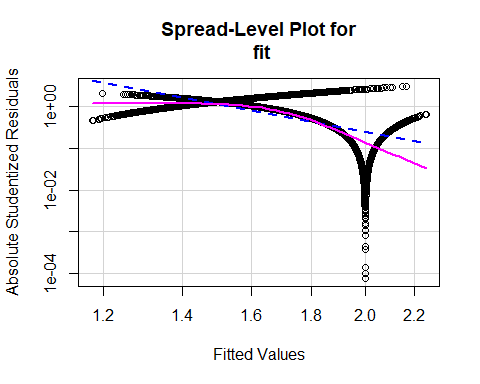
#Distribution of studentized residuals  
sresid <- studres(fit)  
hist(sresid, freq=FALSE,  
 main="Distribution of Studentized Residuals")  
xfit<-seq(min(sresid),max(sresid),length=40)  
yfit<-dnorm(xfit)  
lines(xfit, yfit)



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

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

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



##   
## Suggested power transformation: 6.282503

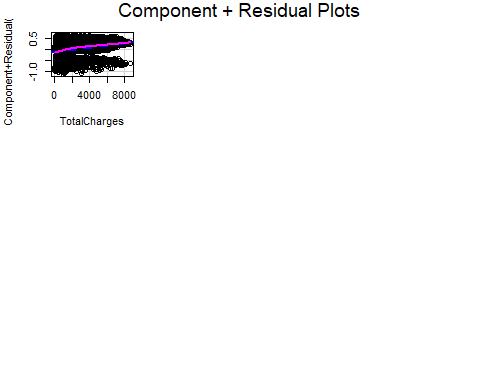
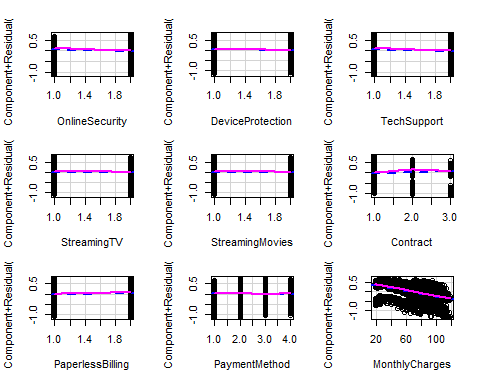
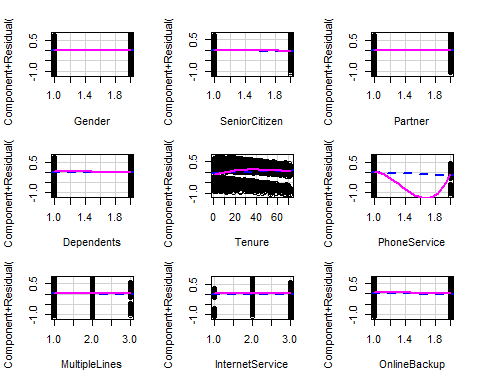
#Multi-collinearity  
# Evaluate Collinearity  
vif(fit) # variance inflation factors

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

sqrt(vif(fit)) > 2

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

#Nonlinearity  
# component + residual plot  
crPlots(fit)



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

##   
## Call:  
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +   
## Tenure + PhoneService + MultipleLines + InternetService +   
## OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +   
## StreamingTV + StreamingMovies + Contract + PaperlessBilling +   
## PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.16590 -0.29353 0.07249 0.26751 0.80298   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.714e+00 9.660e-02 28.098 < 2e-16 \*\*\*  
## Gender 3.950e-03 8.991e-03 0.439 0.660414   
## SeniorCitizen -5.014e-02 1.306e-02 -3.840 0.000124 \*\*\*  
## Partner 1.714e-03 1.086e-02 0.158 0.874621   
## Dependents -2.389e-02 1.153e-02 -2.072 0.038282 \*   
## Tenure 1.677e-03 5.009e-04 3.348 0.000818 \*\*\*  
## PhoneService -1.394e-01 2.904e-02 -4.799 1.63e-06 \*\*\*  
## MultipleLines -2.248e-02 1.131e-02 -1.987 0.046912 \*   
## InternetService 9.770e-03 8.449e-03 1.156 0.247568   
## OnlineBackup -5.578e-02 1.164e-02 -4.792 1.68e-06 \*\*\*  
## OnlineSecurity -9.139e-02 1.214e-02 -7.526 5.88e-14 \*\*\*  
## DeviceProtection -4.199e-02 1.193e-02 -3.518 0.000437 \*\*\*  
## TechSupport -9.267e-02 1.229e-02 -7.541 5.23e-14 \*\*\*  
## StreamingTV -1.756e-02 1.286e-02 -1.366 0.172065   
## StreamingMovies -1.631e-02 1.285e-02 -1.269 0.204469   
## Contract 4.278e-02 8.513e-03 5.025 5.16e-07 \*\*\*  
## PaperlessBilling 5.032e-02 1.002e-02 5.020 5.28e-07 \*\*\*  
## PaymentMethod -7.811e-03 4.582e-03 -1.705 0.088325 .   
## MonthlyCharges -7.487e-03 3.787e-04 -19.771 < 2e-16 \*\*\*  
## TotalCharges 5.178e-05 6.456e-06 8.020 1.23e-15 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.3766 on 7012 degrees of freedom  
## Multiple R-squared: 0.2752, Adjusted R-squared: 0.2733   
## F-statistic: 140.1 on 19 and 7012 DF, p-value: < 2.2e-16  
##   
##   
## ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS  
## USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:  
## Level of Significance = 0.05   
##   
## Call:  
## gvlma(x = fit)   
##   
## Value p-value Decision  
## Global Stat 664.671 0.000e+00 Assumptions NOT satisfied!  
## Skewness 366.591 0.000e+00 Assumptions NOT satisfied!  
## Kurtosis 51.526 7.064e-13 Assumptions NOT satisfied!  
## Link Function 244.686 0.000e+00 Assumptions NOT satisfied!  
## Heteroscedasticity 1.867 1.718e-01 Assumptions acceptable.

fit

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

summary(fit)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

step$anova

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

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

## 1   
## 1.490098

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