

Stat3340 Final Project

Abstract

It is strongly suggested that the selling price of a vehicle tends to be determined through certain factors of the vehicle. This study investigates the relationship between the selling price of the vehicles and other factors such as the year it was sold, the number of kilometers driven, the fuel type, transmission, and number of previous owners. Specifically, it hopes to identify which of these factors have the biggest impact on the selling price. To do so, a detailed list of 4340 vehicles was made and along with this included the factors mentioned above of these vehicles to determine if our hypothesis that there is a strong relationship. Our analysis shows a strong correlation between the selling price of vehicles and these other factors. The results show that although there is a relationship between the selling price and other factors it is not as strong as we expected.

Introduction

Question of Interest: We wish to see if which factors have a significant effect on the selling price of these vehicles; such as

- for physical features
 - If transmissions affect the price.
 - If The type of fuel used has an impact on the price.
 - For history
 - If the year the car was sold is of importance.
 - If the kilometers driven affects the price.
 - If the number of previous owners has any significance.
 - For sale
 - Whether an individual or dealer has any affect on the price.

Data Description:

- Data set: We have used the data set “Car details from car dekho.csv” found in <https://www.kaggle.com/nehalbirla/vehicle-dataset-from-cardekho>
- New Observation: The new observation that I introduced into the data set is a “Ford Freestyle Titanium Plus.” It was sold for a price of \$756000 in the year 2017. The number of kilometers the car has driven is 9300 km, The type of fuel it uses is “Petrol”. It uses a “Manual” transmission It was sold by an “Individual”. The owner who bought the car is the “First Owner”

Methods - Indicator variables

- Used to include qualitative variables of our model
- Used x1 for the year in which the car was built, x2 for the amount of km driven, x3P for the fuel type petrol, x3D for the fuel type diesel, x3E for the Electric fuel type, x3L for the LPG fuel type x4T for the seller type of Trademark Dealer, x4I for the seller type of individual, x5M for the transmission type of manual, x6TD for the car being a test drive car, x6S for the buyer being the second owner, x6T for the buyer being the third owner, and x6F for the buyer being the fourth owner

- Variable Selection
 - Used to create the best regression equation possible without having too few or too many variables in the equation.
 - Used stepwise regression because it is a variation of both forward selection and backward elimination
 - Using stepwise regression, the best model given was: $y \sim x1 + x2 + x3D + x4I + x4D + x5M + x6S$
 - It gave an AIC of 112522.3 which gives us the lowest AIC out of all the possible combinations of the full model making it the best model possible.
- Model Fitting
 - Used lm function to fit the model of our data
 - Took a summary of this information
 - Anova table to
 - Prediction to predict how our fitted model worked with our data
 - Plotted the prediction of our selling price

- Leverage o Computed the Hat matrix used to identify any of the influential variables in our data o Computed Hii (diagonal of the Hat matrix) o Used to find the most influential variables by computing hii> 2p/n o Found the largest influential point o Created residual tables with the most influential points 10, 23, 9, 22
- Residual Analysis o Used residuals o Used standardized residuals o Used studentized residuals o Plotted the residuals o Plotted residual table
- Multicollinearity o Created the data into a matrix o Computed the correlation o Found the VIF - x1: 1.525467, x2: 1.468963, x3P: 45.908288, x3D: 45.957606, x3C: 2.651233, x4I: 28.497225, x4D: 8.327203, x5M: 1.068397, x6F: 10.818221, x6S: 9.206707, x6T: 3.841136 o Shows that a lot of the variables are linear dependence
- Variance Stabilizing Transformation o Computed the log of y and refitted the model to adapt to this change o Did a summary of this model o Did an anova table of this model o Plotted the new model to compare to the old one o Used this model in the residual analysis – standardized and studentized o Created a prediction model with the transformed model and plotted the new prediction model with the residual analysis o Computed the VIF and found that the variables were more reasonably sized and not as linear dependent o Created the forward selection and the AIC being -6524.93 and the best model $\log(y) \sim x1 + x5M + x3D + x4I + x4D + x6F + x2 + x6S + x3P$ o and backward elimination for the newer transformed model being $\log(y) \sim x1 + x2 + x3P + x3D + x4I + x4D + x5M + x6F + x6S$ with an AIC=-6524.93
- Variance Stabilizing Transformation o Transformed the model by taking the log of y, x1 and x2. o Transformed the other variables by taking the inverse of them o Plotted the newer transformed model o Used residual analysis studentized and standardized o Prediction with the transformation o Plotted the predictions with the residuals o Took the VIF of the transformed model

Results:

```
library(leaps)

## Warning: package 'leaps' was built under R version 4.0.3

#install.packages("MPV")
#install.packages("faraway")
library(MPV)

## Warning: package 'MPV' was built under R version 4.0.3

## Loading required package: KernSmooth

## KernSmooth 2.23 loaded
## Copyright M. P. Wand 1997-2009

library(faraway)

## Warning: package 'faraway' was built under R version 4.0.3

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

```

## Warning: package 'MASS' was built under R version 4.0.3

##
## Attaching package: 'MASS'

## The following object is masked from 'package:MPV':
##      cement

#This is the imported data set that we will start with
vehics=read.csv("CAR DETAILS FROM CAR DEKHO.CSV",header=T)

#This is the new observation that I will be adding to the data set
Newobservation<- data.frame("Ford Freestyle Titanium Plus", 2017, 756000, 9300, "Petrol", "Individual",
names(Newobservation)<- c("name", "year", "selling_price", "km_driven", "fuel", "seller_type", "transmi

#The completed data set that includes the new observation that will be used throughout the regression a
vehicles<-rbind(vehics, Newobservation)

#The price the vehicle was sold at will be our Response variable
y<-vehicles$selling_price

#These are the Regressor variables we will be using in our Analysis

x1<-vehicles$year #The year of the vehicle when it was sold.

x2<-vehicles$km_driven #The number of kilometers the car has driven.

x3<-vehicles$fuel #The Fuel type of the car.

x4<-vehicles$seller_type #The type of seller who sold the car.

x5<-vehicles$transmission #The Gear transmission of the car.

x6<-vehicles$owner #The number of previous owners of the car.

#This is our Full regression model that uses all Regressor variables
vehicles.out<-lm(y~x1+x2+x3+x4+x5+x6)

#summary statistics of the Full model
summary(vehicles.out)

##
## Call:
## lm(formula = y ~ x1 + x2 + x3 + x4 + x5 + x6)
##
## Residuals:
##      Min        1Q    Median        3Q       Max
## -1185189 -166749 -24012  113992  7547736
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
```

```

## (Intercept)           -6.973e+07  3.871e+06 -18.014 < 2e-16 ***
## x1                   3.527e+04   1.918e+03  18.388 < 2e-16 ***
## x2                  -9.602e-01   1.683e-01 -5.706 1.23e-08 ***
## x3Diesel             2.864e+05   6.817e+04  4.200 2.72e-05 ***
## x3Electric           -6.056e+05   4.324e+05 -1.401 0.161364
## x3LPG                4.706e+04   1.117e+05  0.421 0.673541
## x3Petrol              -4.104e+03   6.823e+04 -0.060 0.952030
## x4Individual          -6.626e+04   1.648e+04 -4.021 5.88e-05 ***
## x4Trustmark Dealer    1.675e+05   4.446e+04  3.767 0.000167 ***
## x5Manual              -8.703e+05   2.201e+04 -39.532 < 2e-16 ***
## x6Fourth & Above Owner -1.477e+03   4.985e+04 -0.030 0.976366
## x6Second Owner        -4.100e+04   1.668e+04 -2.458 0.013993 *
## x6Test Drive Car      1.685e+05   1.048e+05  1.608 0.107974
## x6Third Owner         -3.996e+04   2.778e+04 -1.439 0.150355
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 426100 on 4327 degrees of freedom
## Multiple R-squared:  0.4592, Adjusted R-squared:  0.4576
## F-statistic: 282.6 on 13 and 4327 DF,  p-value: < 2.2e-16

```

#The Analysis of Variance measurement of the full model

```

anova(vehicles.out)

```

```

## Analysis of Variance Table
##
## Response: y
##             Df Sum Sq Mean Sq F value Pr(>F)
## x1          1 2.4889e+14 2.4889e+14 1371.1689 < 2e-16 ***
## x2          1 6.0848e+11 6.0848e+11   3.3521 0.06719 .
## x3          4 9.9192e+13 2.4798e+13  136.6128 < 2e-16 ***
## x4          2 3.3778e+13 1.6889e+13   93.0418 < 2e-16 ***
## x5          1 2.8281e+14 2.8281e+14 1558.0308 < 2e-16 ***
## x6          4 1.6854e+12 4.2134e+11   2.3212 0.05454 .
## Residuals 4327 7.8544e+14 1.8152e+11
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

qf(1-0.05, 1, 4327)

```

```

## [1] 3.843609

```

```

qf(1-0.05, 2, 4327)

```

```

## [1] 2.997807

```

```

qf(1-0.05, 4, 4327)

```

```

## [1] 2.373986

```

```

#Since Our fuel type predictor is a Categorical variable, we must create dummy variables for further use
x3P<-rep(0,length(vehicles$fuel)) #value for cars that use Petrol gas
x3D<-rep(0,length(vehicles$fuel)) #value for cars that use Diesel gas
x3E<-rep(0,length(vehicles$fuel)) #value for cars that use electricity
x3L<-rep(0,length(vehicles$fuel)) #value for cars that use LPG

for(i in
  1:length(vehicles$fuel)) {
  if(vehicles$fuel[i]=="Petrol")
    x3P[i] = 1
  if(vehicles$fuel[i]=="Diesel")
    x3D[i] = 1
  if(vehicles$fuel[i]=="Electric")
    x3E[i] = 1
  if(vehicles$fuel[i]=="LPG")
    x3L[i] = 1
}

x4I<-rep(0,length(vehicles$seller_type))
x4T<-rep(0,length(vehicles$seller_type))

for(i in
  1:length(vehicles$seller_type)) {
  if(vehicles$seller_type[i]=="Individual")
    x4I[i] = 1
  if(vehicles$seller_type[i]=="Trustmark Dealer")
    x4T[i] = 1
}

x5M<-rep(0,length(vehicles$transmission))

for(i in
  1:length(vehicles$transmission)) {
  if(vehicles$transmission[i]=="Manual")
    x5M[i] = 1
}

x6F<-rep(0,length(vehicles$owner))
x6S<-rep(0,length(vehicles$owner))
x6T<-rep(0,length(vehicles$owner))
x6TD<-rep(0, length(vehicles$owner))
for(i in
  1:length(vehicles$owner)) {
  if(vehicles$owner[i]=="Fourth & Above Owner")
    x6F[i] = 1
  if(vehicles$owner[i]=="Second Owner")
    x6S[i] = 1
  if(vehicles$owner[i]=="Third Owner")
    x6T[i] = 1
  if(vehicles$owner[i]=="Test Drive Car")
    x6TD[i]=1
}

```

```

X<-cbind(rep(1,length(vehicles$y)), x1, x2, x3D, x3E, x3L, x3P, x4I, x4T, x5M, x6F, x6S, x6TD, x6T)
H<-X%*%solve(t(X)%*%X)%*%t(X)
hii<-diag(H)
n<-nrow(X)
p<-ncol(X)

vehicles.out2<-lm(y~x1+x2+x3D+x3E+x3L+x3P+x4I+x4T+x5M+x6F+x6S+x6TD+x6T)
summary(vehicles.out2)

## 
## Call:
## lm(formula = y ~ x1 + x2 + x3D + x3E + x3L + x3P + x4I + x4T +
##       x5M + x6F + x6S + x6TD + x6T)
## 
## Residuals:
##      Min        1Q    Median        3Q       Max
## -1185189 -166749   -24012   113992  7547736
## 
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) -6.973e+07 3.871e+06 -18.014 < 2e-16 ***
## x1          3.527e+04 1.918e+03  18.388 < 2e-16 ***
## x2         -9.602e-01 1.683e-01  -5.706 1.23e-08 ***
## x3D         2.864e+05 6.817e+04   4.200 2.72e-05 ***
## x3E         -6.056e+05 4.324e+05  -1.401 0.161364  
## x3L         4.706e+04 1.117e+05   0.421 0.673541  
## x3P         -4.104e+03 6.823e+04  -0.060 0.952030  
## x4I         -6.626e+04 1.648e+04  -4.021 5.88e-05 ***
## x4T         1.675e+05 4.446e+04   3.767 0.000167 *** 
## x5M         -8.703e+05 2.201e+04 -39.532 < 2e-16 ***
## x6F         -1.477e+03 4.985e+04  -0.030 0.976366  
## x6S         -4.100e+04 1.668e+04  -2.458 0.013993 *  
## x6TD        1.685e+05 1.048e+05   1.608 0.107974  
## x6T         -3.996e+04 2.778e+04  -1.439 0.150355  
## ---        
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## Residual standard error: 426100 on 4327 degrees of freedom
## Multiple R-squared:  0.4592, Adjusted R-squared:  0.4576 
## F-statistic: 282.6 on 13 and 4327 DF,  p-value: < 2.2e-16

anova(vehicles.out2)

## Analysis of Variance Table
## 
## Response: y
##              Df     Sum Sq   Mean Sq   F value   Pr(>F)    
## x1            1 2.4889e+14 2.4889e+14 1371.1689 < 2.2e-16 ***
## x2            1 6.0848e+11 6.0848e+11   3.3521  0.067187 .  
## x3D           1 9.8858e+13 9.8858e+13  544.6119 < 2.2e-16 ***
## x3E           1 7.5241e+10 7.5241e+10   0.4145  0.519726  
## x3L           1 1.7758e+08 1.7758e+08   0.0010  0.975049

```

```

## x3P      1 2.5845e+11 2.5845e+11    1.4238  0.232838
## x4I      1 3.2333e+13 3.2333e+13  178.1242 < 2.2e-16 ***
## x4T      1 1.4448e+12 1.4448e+12    7.9593  0.004806 **
## x5M      1 2.8281e+14 2.8281e+14 1558.0308 < 2.2e-16 ***
## x6F      1 5.2450e+10 5.2450e+10    0.2889  0.590922
## x6S      1 8.1022e+11 8.1022e+11    4.4636  0.034682 *
## x6TD     1 4.4707e+11 4.4707e+11    2.4629  0.116635
## x6T      1 3.7563e+11 3.7563e+11    2.0694  0.150355
## Residuals 4327 7.8544e+14 1.8152e+11
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

preds2 <- predict(vehicles.out2, vehicles)
qf(1-0.05, 1, 4327)

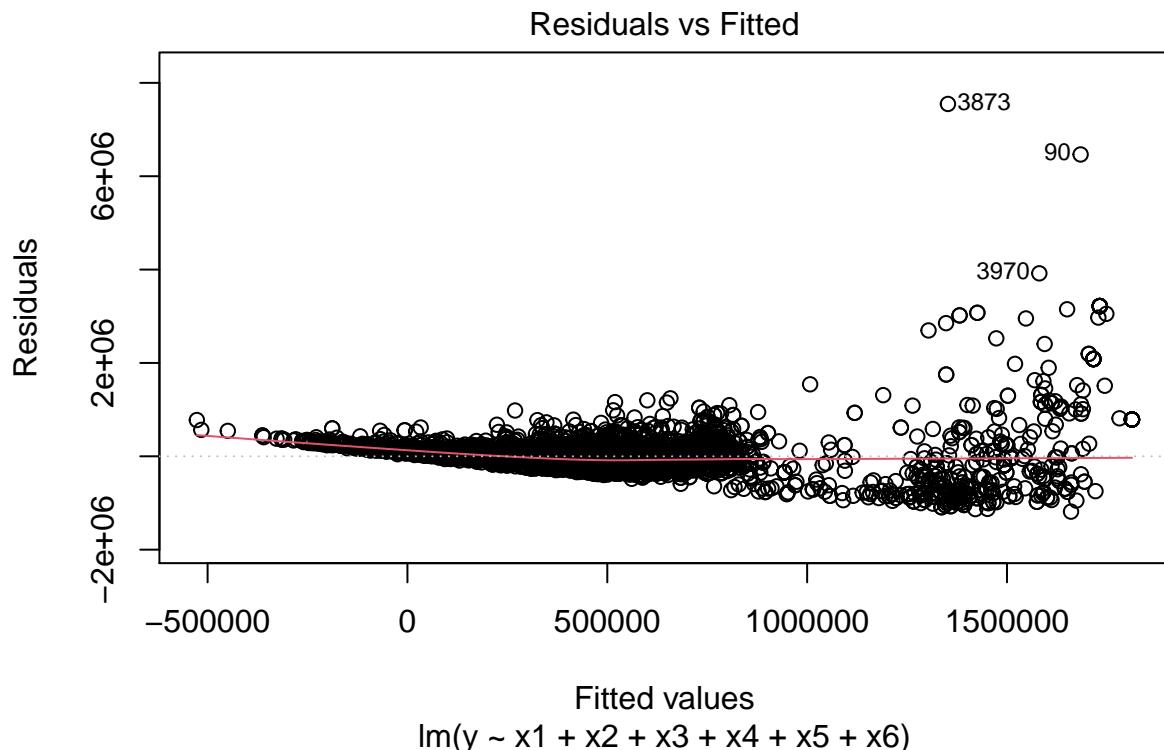
## [1] 3.843609

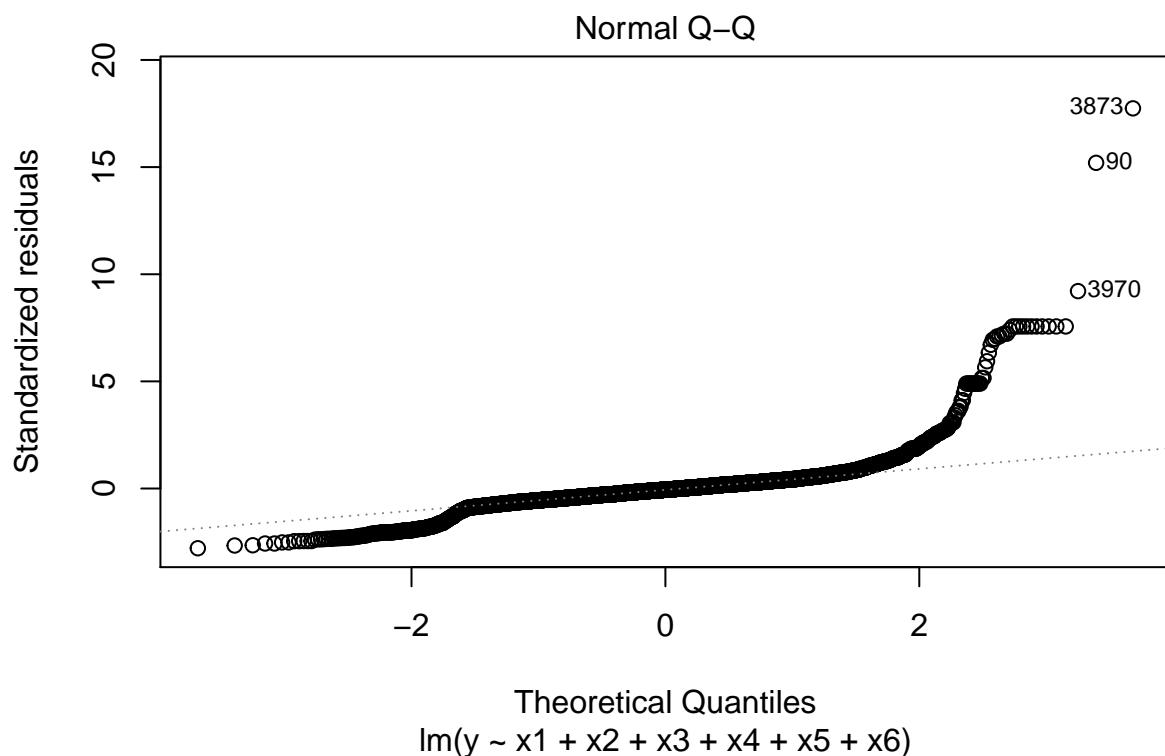
#residual analysis

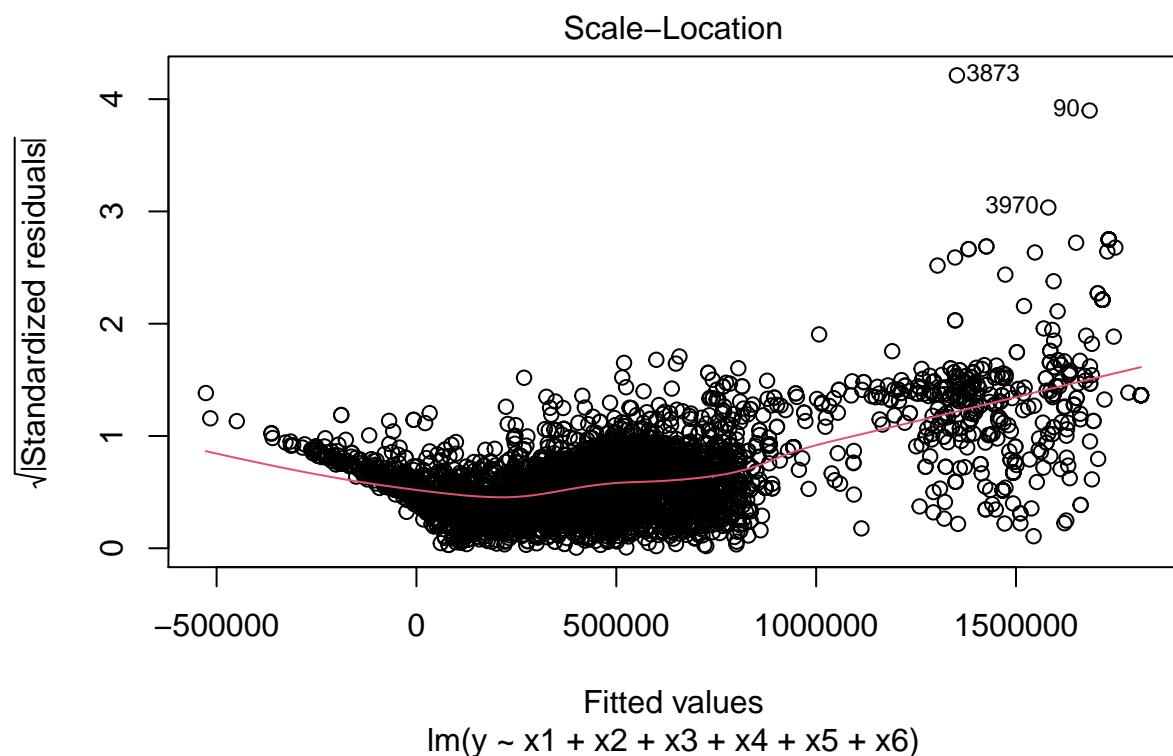
preds<-predict(vehicles.out)
res<-resid(vehicles.out)
rstand<-rstandard(vehicles.out)
rstud<-rstudent(vehicles.out)
plot(vehicles.out)

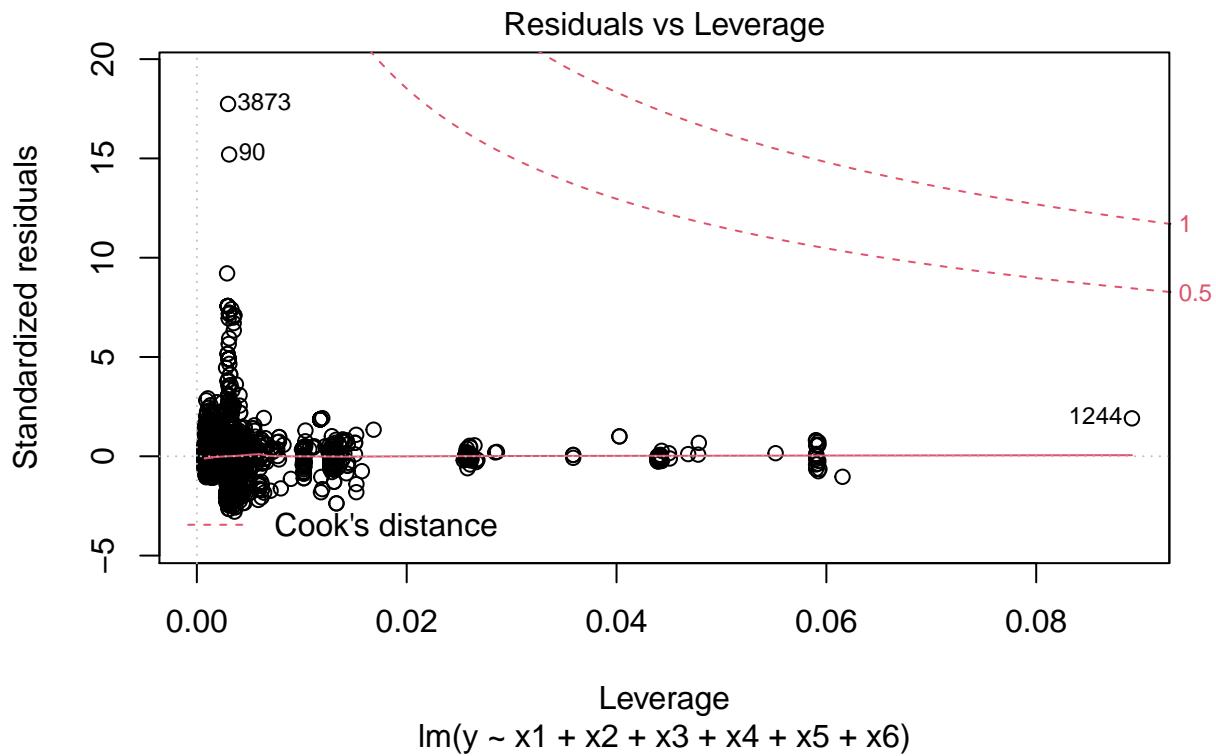
## Warning: not plotting observations with leverage one:
##       4146

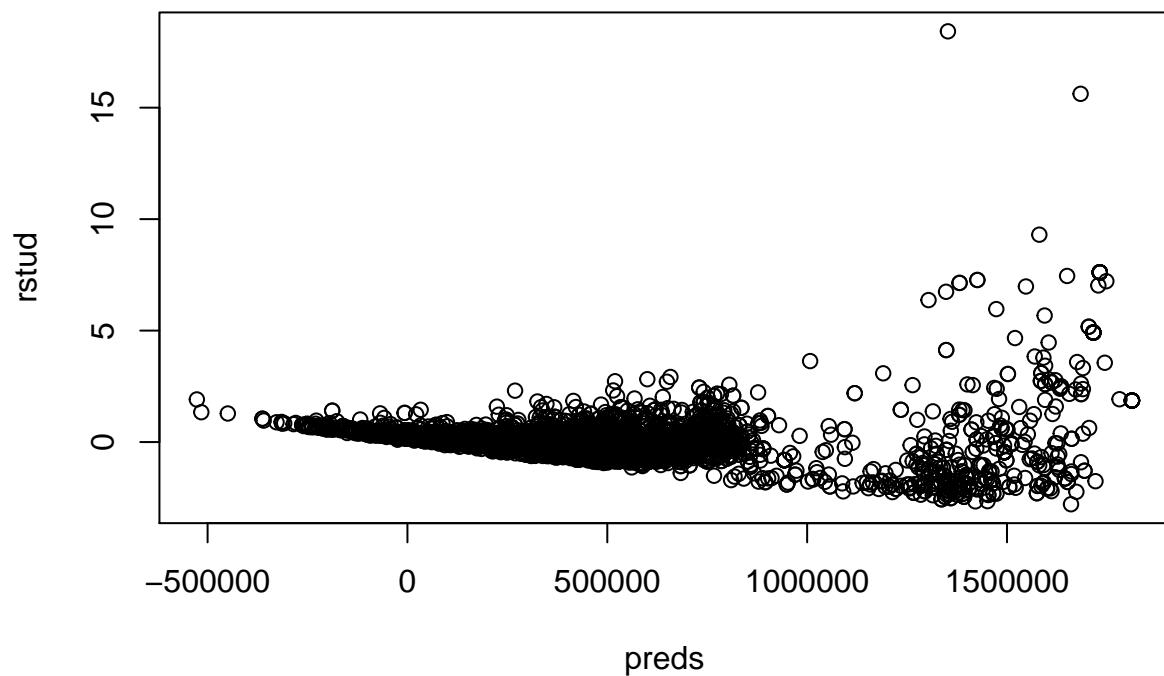
```



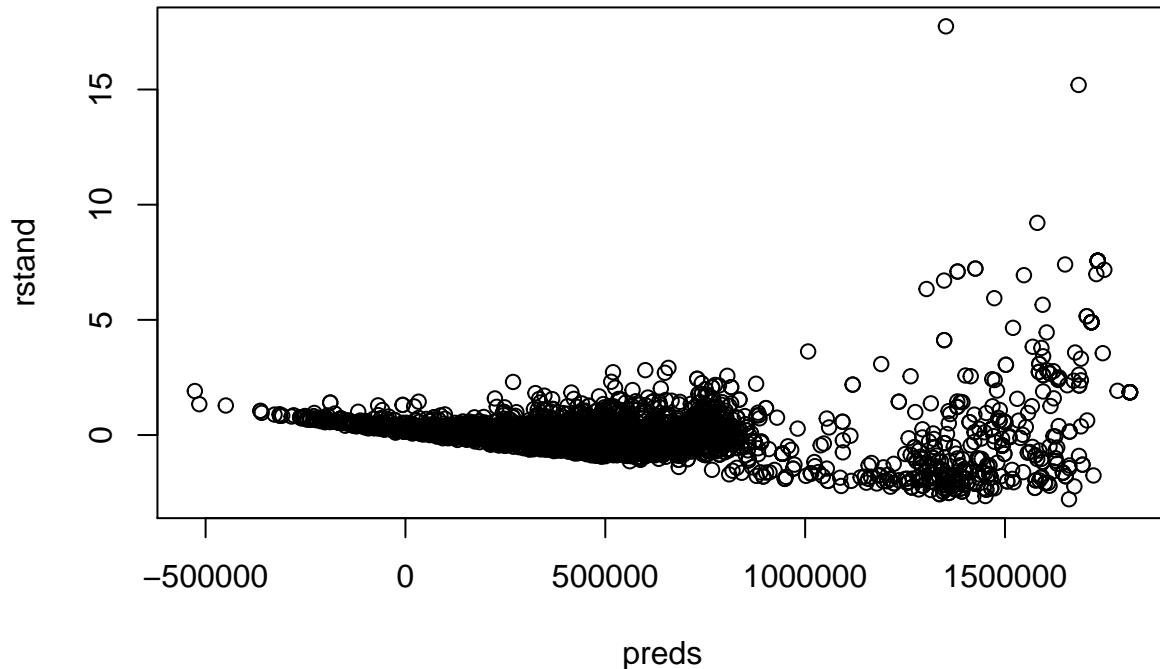








```
plot(preds,rstand)
```



```

residtable<-cbind(res, rstand, rstud)
max(res)

## [1] 7547736

res[c(3873,90,3970)]

##      3873      90     3970
## 7547736 6465766 3919069

res[4146]

##          4146
## 9.066525e-12

res[c(20,3000,400,5,33,333,499,555,456,987,234)]

##        20     3000      400       5      33     333      499
## 145767.03 -148983.82 -25881.26 -21765.55 -119950.93 104716.24 -190746.91
##       555      456      987      234
## 113183.78 -53835.08 -764420.74  97581.80

#multicollinearity

```

```

#When the correlations are large in magnitude, there is near linear dependence
Xv<-cbind(x1, x2, x3D, x3E, x3L, x3P, x4I, x4T, x5M, x6F, x6S, x6TD, x6T)
Xveh=as.matrix(scale(Xv,center=TRUE,scale=TRUE))
Xvehcorr=t(Xveh) %*% Xveh/(length(Xv[,1])-1)
print(Xvehcorr)

```

```

##          x1          x2          x3D          x3E          x3L
## x1 1.00000000 -0.419835270 0.121186705 -0.0255404493 -0.051276878
## x2 -0.41983527 1.000000000 0.285593691 -0.0013677568 0.036665952
## x3D 0.12118670 0.285593691 1.000000000 -0.0150575215 -0.072397064
## x3E -0.02554045 -0.001367757 -0.015057521 1.000000000 -0.001107842
## x3L -0.05127688 0.036665952 -0.072397064 -0.0011078418 1.000000000
## x3P -0.11466487 -0.291341194 -0.970940833 -0.0148576302 -0.071435980
## x4I -0.17355520 0.182460816 -0.035441845 -0.0261190399 0.035110915
## x4T 0.10018141 -0.089798325 -0.007874293 -0.0023546346 -0.011321161
## x5M -0.14371179 0.120108659 -0.048169534 -0.0447464236 0.024758219
## x6F -0.18637135 0.097371176 -0.021019656 -0.0020931138 0.013385936
## x6S -0.29243313 0.195326195 0.003657093 0.0259605993 0.030149247
## x6TD 0.09577193 -0.083413418 -0.010559863 -0.0009517804 -0.004576192
## x6T -0.24434010 0.194754904 0.009434259 -0.0041654560 0.004840780
##          x3P          x4I          x4T          x5M          x6F
## x1 -0.114664871 -0.17355520 0.100181413 -0.143711793 -0.186371352
## x2 -0.291341194 0.18246082 -0.089798325 0.120108659 0.097371176
## x3D -0.970940833 -0.03544184 -0.007874293 -0.048169534 -0.021019656
## x3E -0.014857630 -0.02611904 -0.002354635 -0.044746424 -0.002093114
## x3L -0.071435980 0.03511092 -0.011321161 0.024758219 0.013385936
## x3P 1.000000000 0.02997691 0.012450814 0.039688812 0.011468596
## x4I 0.029976911 1.000000000 -0.266913445 0.214197569 0.072300291
## x4T 0.012450814 -0.26691345 1.000000000 -0.042357873 -0.021389769
## x5M 0.039688812 0.21419757 -0.042357873 1.000000000 0.035585655
## x6F 0.011468596 0.07230029 -0.021389769 0.035585655 1.000000000
## x6S -0.012852536 0.18647965 -0.076739742 0.068019071 -0.080626560
## x6TD 0.012411219 -0.10789062 -0.009726352 0.009146665 -0.008646082
## x6T -0.008565885 0.14077916 -0.042567270 0.030779688 -0.037839477
##          x6S          x6TD          x6T
## x1 -0.292433126 0.0957719335 -0.244340102
## x2 0.195326195 -0.0834134175 0.194754904
## x3D 0.003657093 -0.0105598627 0.009434259
## x3E 0.025960599 -0.0009517804 -0.004165456
## x3L 0.030149247 -0.0045761918 0.004840780
## x3P -0.012852536 0.0124112185 -0.008565885
## x4I 0.186479646 -0.1078906207 0.140779163
## x4T -0.076739742 -0.0097263523 -0.042567270
## x5M 0.068019071 0.0091466654 0.030779688
## x6F -0.080626560 -0.0086460816 -0.037839477
## x6S 1.000000000 -0.0366624969 -0.160452999
## x6TD -0.036662497 1.0000000000 -0.017206361
## x6T -0.160452999 -0.0172063612 1.000000000

```

```

#from the Xvehcorr matrix it shows that the correlation between x3D and x3P are significantly large so
#If one, or more, of the VIFs are large (say great than 5 or 10), then there must be a multicollinearity
vif(vehicles.out)

```

```

##          x1          x2          x3Diesel
##      1.563013    1.473159    27.784539
##      x3Electric          x3LPG      x3Petrol
##      1.029589    1.572107    27.816128
##      x4Individual   x4Trustmark Dealer      x5Manual
##      1.225162        1.084705    1.072591
## x6Fourth & Above Owner   x6Second Owner   x6Test Drive Car
##      1.088385        1.262827    1.024933
##      x6Third Owner
##      1.202032

```

#The predictors whose VIF are suspiciously large are x3P, x3D

*#So we therefore conclude that there is indeed a multicollinearity
#between the Diesel(x3D) and Petrol(x3P) fuel types.*

#leverages and influences

*#if $h_{ii} > 2*p/n$ than the i th observation is a leverage point.
#observations with large h_{ii} and large residuals are likely to be influential
which(hii>2*p/n)*

```

## [1] 10 23 43 45 62 70 76 114 126 138 158 177 223 237 341
## [16] 352 353 362 484 496 526 541 542 543 545 546 547 548 549 550
## [31] 560 561 564 565 570 571 579 580 583 584 589 590 598 599 602
## [46] 603 608 609 617 618 621 622 627 628 658 660 665 667 674 704
## [61] 713 819 825 864 905 906 909 910 915 916 924 925 928 929 934
## [76] 935 956 958 987 1025 1029 1032 1035 1036 1038 1041 1054 1102 1139 1140
## [91] 1141 1142 1168 1185 1216 1244 1299 1315 1356 1415 1427 1434 1436 1444 1446
## [106] 1483 1532 1558 1569 1580 1595 1596 1599 1609 1616 1617 1618 1619 1620 1621
## [121] 1622 1623 1624 1625 1626 1627 1634 1660 1670 1671 1675 1687 1695 1700 1703
## [136] 1715 1716 1717 1727 1775 1776 1777 1778 1779 1780 1781 1782 1792 1796 1811
## [151] 1813 1815 1831 1841 1842 1845 1846 1851 1852 1934 1943 1999 2014 2045 2057
## [166] 2061 2093 2098 2150 2180 2181 2182 2184 2185 2186 2187 2188 2189 2195 2219
## [181] 2244 2245 2248 2249 2254 2255 2263 2264 2267 2268 2273 2274 2279 2338 2343
## [196] 2360 2361 2363 2381 2395 2494 2496 2547 2662 2735 2744 2745 2748 2749 2754
## [211] 2755 2783 2786 2803 2805 2824 2832 2879 2905 2909 2911 2925 2956 2962 2965
## [226] 2973 2975 2999 3013 3015 3021 3032 3042 3049 3091 3108 3112 3113 3115 3116
## [241] 3191 3238 3321 3335 3342 3388 3395 3405 3408 3465 3478 3483 3504 3551 3616
## [256] 3625 3647 3676 3680 3719 3724 3753 3774 3779 3782 3831 3836 3850 3899 3903
## [271] 3980 3983 3993 3995 4002 4007 4029 4030 4064 4077 4095 4097 4098 4099 4100
## [286] 4101 4133 4141 4146 4153 4185 4209

```

max(hii)

[1] 1

which(hii>0.4352625)

[1] 4146

```
hii[4146]
```

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

```
#From our analysis it seems that we have many leverage points but only one, influential point which app  
#That being said it was discovered that observation[4146] is actually the only observation that has ele  
#which is what I have decided to do in he end since in the anova(vehicles.out2)  
#the electricity fuel type is not significant to the response.
```

```
influence<-influence.measures(vehicles.out)  
print(influence)
```

```
## Influence measures of  
## lm(formula = y ~ x1 + x2 + x3 + x4 + x5 + x6) :  
##  
##      dfb.1_    dfb.x1    dfb.x2   dfb.x3Ds   dfb.x3El   dfb.x3LP   dfb.x3Pt  
## 1  1.03e-03 -1.04e-03 -8.02e-05 -2.15e-05 -7.34e-06 -5.73e-05  5.28e-05  
## 2  5.05e-03 -5.05e-03 -1.69e-03 -4.31e-05 -4.58e-05 -2.41e-04  1.78e-04  
## 3  2.35e-03 -2.37e-03  1.53e-03  6.69e-04  1.39e-04 -2.06e-04 -1.39e-04  
## 4  5.84e-03 -5.83e-03 -2.02e-03  3.41e-05 -4.63e-04 -2.04e-04 -1.39e-03  
## 5  9.35e-04 -9.30e-04 -1.11e-03 -1.50e-04 -1.44e-05  1.64e-06 -1.02e-04  
## 6  6.58e-03 -6.60e-03  6.89e-03 -4.87e-04  9.99e-06 -5.88e-04  7.88e-04  
## 7 -2.43e-03  2.43e-03 -1.67e-03  7.57e-05  3.20e-04  1.34e-04  9.97e-04  
## 8  6.71e-04 -6.69e-04 -1.01e-04 -3.53e-05 -5.05e-06 -1.59e-05 -1.93e-04  
## 9 -2.95e-03  2.93e-03 -7.39e-03  2.38e-04  8.94e-04  2.27e-04  3.01e-03  
## 10 5.12e-04 -6.95e-04 -7.52e-04  1.05e-02  1.58e-03  6.37e-03  1.04e-02  
## 11 9.51e-04 -9.46e-04  6.05e-04 -1.38e-05 -1.94e-04 -3.89e-05 -6.58e-04  
## 12 2.49e-04 -2.48e-04 -5.88e-04  2.57e-05 -2.59e-05  6.82e-06 -9.89e-05  
## 13 -7.23e-03  7.40e-03  2.78e-03 -8.93e-04 -1.17e-03  6.12e-04  1.44e-03  
## 14 1.03e-03 -1.04e-03 -8.02e-05 -2.15e-05 -7.34e-06 -5.73e-05  5.28e-05  
## 15 5.05e-03 -5.05e-03 -1.69e-03 -4.31e-05 -4.58e-05 -2.41e-04  1.78e-04  
## 16 2.35e-03 -2.37e-03  1.53e-03  6.69e-04  1.39e-04 -2.06e-04 -1.39e-04  
## 17 5.84e-03 -5.83e-03 -2.02e-03  3.41e-05 -4.63e-04 -2.04e-04 -1.39e-03  
## 18 9.35e-04 -9.30e-04 -1.11e-03 -1.50e-04 -1.44e-05  1.64e-06 -1.02e-04  
## 19 6.58e-03 -6.60e-03  6.89e-03 -4.87e-04  9.99e-06 -5.88e-04  7.88e-04  
## 20 -2.43e-03  2.43e-03 -1.67e-03  7.57e-05  3.20e-04  1.34e-04  9.97e-04  
## 21 6.71e-04 -6.69e-04 -1.01e-04 -3.53e-05 -5.05e-06 -1.59e-05 -1.93e-04  
## 22 -2.95e-03  2.93e-03 -7.39e-03  2.38e-04  8.94e-04  2.27e-04  3.01e-03  
## 23 5.12e-04 -6.95e-04 -7.52e-04  1.05e-02  1.58e-03  6.37e-03  1.04e-02  
## 24 9.51e-04 -9.46e-04  6.05e-04 -1.38e-05 -1.94e-04 -3.89e-05 -6.58e-04  
## 25 2.49e-04 -2.48e-04 -5.88e-04  2.57e-05 -2.59e-05  6.82e-06 -9.89e-05  
## 26 -7.23e-03  7.40e-03  2.78e-03 -8.93e-04 -1.17e-03  6.12e-04  1.44e-03  
## 27 -1.22e-03  1.23e-03 -1.28e-03  1.37e-04 -2.24e-05  3.85e-04  1.16e-03  
## 28 -7.38e-03  7.43e-03 -1.24e-02  2.97e-03  2.08e-04  1.32e-03  2.96e-04  
## 29 -7.25e-04  7.36e-04  8.00e-03 -1.61e-03  1.04e-04 -5.23e-05 -5.85e-06  
## 30 1.27e-02 -1.24e-02 -1.26e-02  1.61e-03 -2.69e-03  1.95e-04 -1.92e-03  
## 31 -2.11e-03  2.06e-03  4.04e-04 -1.92e-04  4.52e-04  1.51e-05  2.80e-04  
## 32 2.31e-03 -2.85e-03  2.77e-02 -3.66e-03  4.09e-03 -1.85e-03  2.41e-03  
## 33 -1.44e-03  1.38e-03 -1.14e-02  1.66e-04  7.52e-04  2.49e-04  1.12e-04  
## 34 -1.39e-02  1.39e-02 -2.16e-03  5.06e-04  2.97e-04  1.52e-03  3.48e-03  
## 35 -1.40e-03  1.40e-03 -5.25e-04  3.76e-05  1.13e-04  7.73e-05  3.11e-04  
## 36 7.99e-03 -7.83e-03 -3.35e-03  7.37e-04 -1.58e-03 -3.49e-05 -1.05e-03
```

```

## 37 -1.50e-03 1.46e-03 2.71e-03 -4.17e-04 5.80e-04 -4.14e-05 1.67e-04
## 38 -7.82e-05 -3.86e-04 -3.86e-02 -2.48e-03 7.14e-03 5.22e-04 -4.31e-04
## 39 5.37e-03 -5.55e-03 -6.78e-03 1.78e-03 1.18e-03 2.27e-04 -1.48e-03
## 40 -3.45e-03 3.39e-03 4.22e-03 4.46e-03 1.39e-03 -1.58e-04 -1.09e-04
## 41 -3.79e-02 3.79e-02 -1.20e-02 9.89e-04 2.70e-03 2.10e-03 7.05e-03
## 42 -4.17e-03 4.07e-03 -1.28e-02 1.38e-03 1.28e-03 3.41e-04 -9.12e-04
## 43 4.58e-03 -4.57e-03 -1.64e-04 -8.32e-04 -3.06e-04 -4.78e-04 -1.39e-03
## 44 -2.61e-04 3.30e-04 2.00e-04 5.57e-04 -9.26e-04 8.47e-05 -4.21e-05
## 45 -1.20e-03 1.17e-03 9.06e-04 -1.32e-04 3.25e-04 1.87e-05 1.92e-04
## 46 3.48e-03 -3.48e-03 -3.67e-03 6.68e-04 5.27e-05 -1.08e-04 -2.94e-04
## 47 7.16e-03 -7.19e-03 -1.15e-02 3.36e-03 6.25e-04 -1.96e-04 -8.41e-04
## 48 -4.75e-04 4.72e-04 -2.70e-04 2.21e-04 8.17e-07 1.11e-05 5.17e-05
## 49 -1.27e-03 1.26e-03 3.14e-04 5.94e-05 1.05e-05 2.79e-05 3.57e-04
## 50 -1.21e-03 1.20e-03 -2.17e-04 1.56e-04 -3.61e-05 -5.61e-06 7.72e-04
## 51 1.64e-03 -1.66e-03 1.13e-03 7.15e-04 -1.18e-04 -2.06e-04 8.94e-05
## 52 -4.27e-05 3.68e-05 -4.66e-04 -5.13e-05 6.16e-05 -7.76e-05 5.18e-04
## 53 8.84e-04 -8.84e-04 1.77e-04 -1.87e-05 -6.14e-05 -4.62e-05 -1.62e-04
## 54 7.11e-03 -7.12e-03 4.87e-05 -1.71e-04 -7.04e-05 -4.08e-04 3.04e-04
## 55 5.70e-04 -5.80e-04 2.75e-03 -7.02e-04 -9.18e-06 -2.54e-04 -2.18e-05
## 56 5.43e-03 -5.45e-03 1.49e-03 -2.30e-04 -1.15e-04 -6.24e-04 -1.39e-03
## 57 1.67e-03 -1.68e-03 1.69e-03 -6.77e-04 -4.33e-05 -2.83e-04 -9.82e-05
## 58 9.43e-03 -9.45e-03 -1.56e-03 -1.95e-04 -2.08e-04 -8.91e-04 -2.21e-03
## 59 4.73e-04 -4.81e-04 1.05e-03 -6.11e-04 -2.64e-06 -1.97e-04 -5.47e-05
## 60 -1.21e-03 1.20e-03 -1.08e-04 -1.30e-03 7.70e-05 -2.74e-04 -8.03e-05
## 61 3.99e-04 -3.96e-04 7.17e-05 -5.14e-05 1.19e-05 1.85e-06 -2.55e-04
## 62 5.76e-02 -5.77e-02 -3.69e-02 3.19e-03 -2.03e-03 -2.29e-03 -3.11e-03
## 63 -1.10e-05 1.31e-05 9.01e-04 3.03e-04 -1.11e-05 6.32e-05 5.59e-05
## 64 7.48e-05 -7.54e-05 -4.22e-04 1.33e-05 3.66e-06 -1.46e-05 -1.03e-04
## 65 -1.86e-02 1.86e-02 6.08e-03 -1.14e-03 2.57e-04 8.71e-04 1.12e-03
## 66 3.06e-03 -3.06e-03 -1.84e-03 -1.29e-04 1.17e-04 -2.06e-04 -8.84e-04
## 67 9.33e-05 -9.76e-05 -2.12e-03 -6.44e-04 2.19e-05 -1.34e-04 -1.28e-04
## 68 1.11e-04 -1.11e-04 -2.26e-06 1.60e-05 -2.87e-05 5.39e-06 7.64e-05
## 69 1.72e-03 -1.73e-03 1.68e-03 -1.27e-04 2.81e-05 -1.55e-04 3.02e-04
## 70 -1.10e-02 1.09e-02 3.47e-02 -1.01e-04 1.90e-04 -5.40e-04 1.54e-03
## 71 -4.09e-04 4.01e-04 3.71e-03 2.86e-05 5.86e-05 -9.27e-05 8.86e-05
## 72 2.43e-03 -2.42e-03 5.88e-04 -9.09e-04 -3.16e-04 -1.05e-04 -3.46e-05
## 73 6.75e-03 -6.74e-03 -3.25e-04 -6.03e-05 -4.96e-04 -3.00e-04 -1.39e-03
## 74 -2.48e-02 2.48e-02 1.67e-02 -2.03e-03 2.90e-04 9.24e-04 1.69e-03
## 75 1.01e-03 -1.03e-03 5.44e-04 1.07e-03 1.38e-04 -2.76e-04 -1.51e-04
## 76 3.02e-02 -3.01e-02 -2.61e-02 -5.91e-03 -1.85e-03 -2.12e-03 -5.72e-03
## 77 4.12e-03 -4.14e-03 2.31e-03 -3.58e-04 -1.02e-06 -5.05e-04 1.10e-03
## 78 -2.18e-03 2.17e-03 -5.70e-03 1.65e-03 4.65e-04 2.12e-04 -1.35e-04
## 79 -5.48e-04 5.47e-04 -1.37e-05 1.33e-04 5.23e-05 2.36e-05 1.59e-05
## 80 -3.52e-02 3.49e-02 1.38e-02 1.94e-03 5.50e-03 2.51e-03 -1.51e-03
## 81 8.16e-04 -8.33e-04 -1.00e-03 2.18e-04 -1.42e-04 -1.31e-04 1.04e-03
## 82 1.50e-03 -1.49e-03 -1.32e-03 -3.19e-04 -1.95e-05 -3.97e-06 -1.63e-04
## 83 5.41e-03 -5.44e-03 3.30e-03 -4.23e-04 -4.93e-05 -5.96e-04 1.03e-03
## 84 -1.65e-02 1.65e-02 8.19e-03 5.21e-04 1.68e-04 2.87e-04 4.35e-03
## 85 7.79e-04 -7.64e-04 -9.52e-04 -1.01e-03 -3.15e-04 3.57e-05 2.45e-05
## 86 4.27e-03 -4.26e-03 4.41e-03 -1.28e-03 -4.30e-04 -3.04e-04 -2.16e-05
## 87 -1.75e-04 1.77e-04 -1.90e-04 1.65e-05 9.32e-07 3.75e-05 9.49e-05
## 88 4.70e-04 -4.78e-04 8.50e-04 -7.34e-05 1.30e-05 -1.81e-04 -5.26e-04
## 89 -1.22e-02 1.23e-02 -7.41e-03 7.59e-04 1.97e-04 1.82e-03 4.23e-03
## 90 4.53e-02 -4.05e-02 -2.60e-01 3.19e-02 -3.85e-02 1.33e-02 -2.49e-02

```

```

## 91 -2.05e-04 1.94e-04 -4.28e-04 9.08e-04 2.56e-04 -1.97e-05 -7.10e-05
## 92 2.47e-04 -2.61e-04 3.62e-03 5.08e-04 1.74e-04 -1.49e-04 1.65e-05
## 93 -1.40e-05 1.40e-05 6.10e-06 -8.02e-07 1.56e-06 7.38e-08 -2.81e-06
## 94 -5.86e-03 5.84e-03 3.11e-03 -2.18e-03 2.46e-04 -3.29e-04 1.30e-04
## 95 -6.32e-05 3.64e-05 1.36e-03 -2.62e-04 3.34e-04 -6.28e-05 5.52e-05
## 96 5.61e-03 -5.59e-03 6.49e-03 -2.42e-03 -4.32e-05 -2.63e-04 -4.75e-04
## 97 4.49e-02 -4.40e-02 -1.98e-02 4.15e-03 -8.78e-03 -1.83e-04 -5.86e-03
## 98 1.42e-02 -1.43e-02 4.51e-03 -1.04e-03 3.00e-04 -1.23e-03 -3.11e-03
## 99 1.13e-03 -1.14e-03 1.41e-06 -7.81e-05 2.48e-04 -1.11e-04 1.05e-03
## 100 -1.16e-02 1.13e-02 4.02e-03 -1.06e-03 2.34e-03 6.05e-05 1.52e-03
## 101 -4.39e-02 4.34e-02 -1.03e-02 4.53e-03 6.47e-03 1.53e-03 -1.82e-03
## 102 -7.75e-02 7.97e-02 -7.68e-03 -9.89e-03 -1.56e-02 8.31e-03 1.69e-02
## 103 7.94e-03 -7.30e-03 -4.65e-02 4.77e-03 -4.25e-03 -1.74e-04 -5.77e-03
## 104 -2.37e-03 2.56e-03 -5.85e-03 1.16e-03 -1.43e-03 6.31e-04 -7.03e-04
## 105 -5.98e-04 5.97e-04 2.91e-04 -5.22e-06 2.32e-05 5.69e-06 -3.58e-05
## 106 4.70e-02 -4.63e-02 -2.08e-02 3.31e-03 -7.34e-03 -6.03e-04 -5.31e-03
## 107 4.28e-04 -4.27e-04 -5.48e-04 -5.44e-05 -3.29e-05 -3.74e-06 -2.71e-05
## 108 7.75e-03 -7.77e-03 9.63e-04 1.06e-03 9.34e-05 -4.99e-04 -4.45e-04
## 109 1.04e-03 -1.03e-03 1.04e-04 -1.31e-05 -9.23e-05 -4.75e-05 -2.72e-04
## 110 -1.73e-03 1.73e-03 1.08e-03 2.77e-04 1.37e-04 4.72e-05 8.30e-05
## 111 -1.04e-02 1.04e-02 -2.08e-03 2.19e-04 7.20e-04 5.42e-04 1.90e-03
## 112 3.22e-03 -3.22e-03 2.12e-03 -1.15e-04 -3.27e-04 -1.92e-04 -9.44e-04
## 113 2.69e-03 -2.70e-03 -1.94e-03 5.66e-04 6.41e-05 -1.13e-04 -2.14e-04
## 114 1.38e-03 -1.36e-03 7.73e-04 -6.91e-04 -1.77e-04 -2.96e-04 -1.03e-03
## 115 -4.66e-03 4.64e-03 4.48e-03 -2.39e-04 2.45e-04 -3.85e-05 1.22e-03
## 116 2.44e-03 -2.44e-03 6.76e-04 -4.88e-05 -2.27e-04 -1.23e-04 -6.65e-04
## 117 -1.03e-03 1.02e-03 -1.02e-03 8.53e-04 2.57e-04 4.56e-05 -3.75e-05
## 118 2.10e-03 -2.09e-03 6.13e-04 -8.79e-04 -8.16e-06 -4.10e-05 -2.29e-04
## 119 1.36e-02 -1.39e-02 -2.51e-02 3.27e-03 1.64e-03 4.74e-04 -2.84e-03
## 120 -8.69e-04 8.65e-04 1.22e-04 2.97e-04 6.30e-06 1.16e-05 9.47e-05
## 121 3.91e-03 -3.93e-03 7.90e-04 8.29e-05 -2.51e-04 -3.50e-04 9.70e-04
## 122 -2.88e-04 2.87e-04 2.53e-04 6.15e-05 3.75e-06 7.63e-07 3.14e-05
## 123 1.56e-03 -1.52e-03 9.85e-03 -3.40e-03 1.53e-04 -4.53e-05 -3.67e-04
## 124 1.40e-02 -1.41e-02 -4.86e-03 -9.30e-05 -2.29e-04 -6.47e-04 9.67e-05
## 125 -2.55e-03 2.54e-03 -5.83e-04 5.27e-05 2.00e-04 1.31e-04 5.52e-04
## 126 -2.15e-03 2.20e-03 1.61e-03 -3.52e-03 -4.19e-04 -6.04e-04 -1.84e-03
## 127 1.03e-03 -1.02e-03 1.16e-03 -2.12e-04 5.01e-05 -1.56e-06 -8.39e-04
## 128 3.66e-04 -3.68e-04 2.38e-04 1.04e-04 2.16e-05 -3.20e-05 -2.17e-05
## 129 -7.52e-03 7.49e-03 -1.36e-03 1.79e-03 1.29e-04 2.65e-04 6.05e-04
## 130 -9.10e-03 9.08e-03 -1.65e-03 2.17e-03 1.56e-04 3.21e-04 7.33e-04
## 131 -2.78e-03 2.77e-03 1.29e-03 -4.05e-05 2.67e-04 7.90e-05 8.53e-04
## 132 -5.28e-03 5.31e-03 5.38e-03 -2.34e-03 3.33e-04 3.66e-04 -1.75e-05
## 133 5.90e-04 -5.88e-04 -3.30e-04 -1.33e-04 -3.98e-05 3.45e-06 -2.14e-05
## 134 4.81e-03 -4.77e-03 -1.45e-02 2.42e-03 -1.78e-04 6.33e-04 -3.70e-04
## 135 -4.09e-04 4.19e-04 -1.49e-03 1.07e-04 -2.04e-05 2.25e-04 6.26e-04
## 136 -1.20e-03 1.21e-03 -4.67e-04 5.35e-04 2.72e-05 2.03e-04 9.60e-05
## 137 1.41e-03 -1.40e-03 1.81e-04 4.85e-06 -2.49e-04 -4.37e-05 -8.48e-04
## 138 3.20e-02 -3.21e-02 -2.29e-02 3.57e-03 -3.57e-04 -4.49e-05 2.87e-03
## 139 -5.36e-04 5.44e-04 -1.92e-03 1.23e-04 -1.08e-04 1.06e-04 -5.25e-04
## 140 2.72e-03 -2.71e-03 -3.32e-03 1.39e-04 -2.86e-04 -1.36e-05 -9.98e-04
## 141 -1.45e-02 1.45e-02 6.69e-03 -2.38e-03 -1.97e-04 6.92e-04 1.03e-03
## 142 1.76e-02 -1.76e-02 -5.22e-03 -1.52e-04 -3.10e-04 -8.32e-04 5.96e-05
## 143 1.04e-02 -1.03e-02 -1.67e-02 -1.78e-03 -9.64e-04 3.59e-05 -6.82e-04
## 144 8.68e-03 -8.69e-03 -4.42e-03 5.61e-06 -1.33e-04 -3.61e-04 4.79e-05

```

```

## 145 -8.44e-06 8.35e-06 -8.62e-05 6.46e-06 -1.02e-06 1.42e-06 1.24e-05
## 146 1.14e-04 -1.16e-04 -5.15e-03 1.83e-04 2.54e-04 9.62e-05 8.35e-04
## 147 -6.89e-03 6.89e-03 -3.70e-03 2.33e-04 5.78e-04 4.10e-04 1.57e-03
## 148 7.40e-04 -7.33e-04 -1.54e-03 -3.57e-04 -1.37e-04 2.43e-05 -3.69e-05
## 149 3.29e-03 -3.27e-03 -2.12e-03 -1.37e-03 -4.98e-04 -4.70e-05 -9.17e-05
## 150 2.30e-02 -2.30e-02 -4.84e-03 -2.84e-04 -4.26e-04 -1.14e-03 5.33e-05
## 151 -9.41e-04 9.40e-04 -1.06e-03 3.60e-04 1.16e-04 6.59e-05 -3.20e-06
## 152 2.33e-03 -2.35e-03 3.22e-03 -2.83e-05 -1.85e-04 -3.16e-04 9.18e-04
## 153 6.70e-03 -6.71e-03 -1.85e-03 -8.16e-05 -2.98e-05 -3.37e-04 3.70e-04
## 154 4.44e-03 -4.40e-03 -8.73e-03 -1.42e-03 6.28e-06 2.01e-04 -7.16e-04
## 155 3.15e-03 -3.13e-03 -7.27e-03 -8.43e-04 -4.01e-04 9.28e-05 -2.25e-04
## 156 -8.07e-04 8.12e-04 -3.20e-04 4.92e-05 -6.92e-05 6.91e-05 -3.45e-04
## 157 2.99e-03 -2.99e-03 2.05e-03 -9.31e-05 -3.94e-04 -1.65e-04 -1.23e-03
## 158 2.71e-03 -2.71e-03 -2.41e-03 2.01e-04 -2.29e-04 -4.59e-02 -2.06e-05
## 159 1.97e-02 -1.96e-02 -1.98e-02 5.91e-04 -9.54e-04 -4.19e-04 -2.74e-03
## 160 8.12e-03 -8.08e-03 -2.03e-02 -6.59e-04 -6.25e-04 2.15e-04 -7.33e-04
## 161 4.89e-04 -4.88e-04 -3.70e-04 2.21e-05 -2.72e-05 3.15e-06 -1.37e-04
## 162 1.95e-04 -2.11e-04 -2.69e-03 2.31e-05 4.81e-04 -1.99e-05 1.80e-03
## 163 -2.81e-03 2.81e-03 4.05e-03 -6.86e-04 -7.25e-05 6.09e-05 2.70e-04
## 164 3.73e-02 -3.66e-02 -3.30e-02 -3.46e-03 -1.10e-02 -3.36e-03 5.31e-03
## 165 -1.28e-03 1.28e-03 4.89e-04 6.73e-05 7.87e-07 1.39e-05 4.53e-04
## 166 -5.67e-03 5.66e-03 3.59e-03 -1.01e-04 4.13e-04 1.57e-04 1.26e-03
## 167 -2.76e-03 2.80e-03 -1.47e-02 -8.88e-04 -3.29e-04 6.42e-04 -7.55e-05
## 168 -6.90e-03 6.58e-03 5.57e-03 1.76e-03 4.55e-03 1.23e-03 -3.01e-03
## 169 1.53e-03 -1.52e-03 -1.72e-04 9.52e-07 -1.63e-04 -5.59e-05 -5.17e-04
## 170 7.56e-03 -7.55e-03 -1.16e-03 -9.90e-04 -3.85e-04 -2.01e-04 -2.91e-04
## 171 -1.51e-04 1.51e-04 3.32e-05 -2.62e-06 8.15e-06 1.97e-06 3.67e-05
## 172 6.14e-05 -6.07e-05 -9.58e-05 -3.16e-06 2.13e-06 3.39e-06 -4.23e-05
## 173 2.45e-03 -2.42e-03 5.74e-05 -1.43e-03 2.60e-05 1.87e-05 -3.60e-04
## 174 2.89e-03 -2.90e-03 1.62e-03 -2.51e-04 -7.17e-07 -3.53e-04 7.73e-04
## 175 -1.31e-02 1.31e-02 -2.62e-03 2.76e-04 9.08e-04 6.83e-04 2.39e-03
## 176 3.05e-03 -3.07e-03 1.83e-03 3.04e-05 -2.12e-04 -3.20e-04 9.06e-04
## 177 9.51e-03 -1.12e-02 -7.57e-04 9.55e-02 1.43e-02 5.77e-02 9.51e-02
## 178 1.23e-02 -1.23e-02 -5.87e-03 2.78e-04 -5.46e-04 -6.37e-04 7.31e-04
## 179 -3.40e-03 3.41e-03 5.25e-03 -1.00e-04 -2.66e-04 9.69e-05 -1.15e-03
## 180 -3.27e-03 3.26e-03 -2.24e-03 1.02e-04 4.30e-04 1.80e-04 1.34e-03
## 181 -1.46e-03 1.45e-03 -4.64e-03 1.52e-04 4.95e-04 1.31e-04 1.66e-03
## 182 3.60e-03 -3.59e-03 6.13e-04 -6.55e-05 -2.78e-04 -1.80e-04 -7.72e-04
## 183 -1.17e-02 1.16e-02 8.33e-03 -2.25e-04 7.21e-04 3.19e-04 2.12e-03
## 184 1.19e-03 -1.20e-03 -9.58e-04 1.16e-04 -9.68e-05 -9.52e-05 4.81e-04
## 185 1.34e-04 -1.77e-04 7.89e-03 -1.33e-05 -2.38e-04 -4.46e-04 2.22e-03
## 186 1.58e-03 -1.58e-03 -3.98e-05 -1.57e-05 -1.17e-04 -7.12e-05 -3.28e-04
## 187 2.52e-04 -2.52e-04 3.90e-04 -8.94e-05 -2.80e-05 -2.12e-05 2.33e-06
## 188 -4.22e-03 4.23e-03 1.46e-03 -3.88e-04 1.67e-04 2.26e-04 1.62e-04
## 189 1.82e-03 -2.25e-03 -7.24e-03 -1.86e-03 3.08e-03 9.29e-04 3.07e-03
## 190 1.36e-03 -1.36e-03 4.28e-04 -2.93e-05 -1.28e-04 -6.96e-05 -3.73e-04
## 191 8.52e-03 -8.56e-03 5.58e-03 -1.10e-04 -4.84e-04 -8.00e-04 1.52e-03
## 192 2.11e-03 -2.08e-03 -1.82e-03 1.67e-04 -2.47e-04 -1.08e-04 -3.33e-04
## 193 8.39e-03 -8.40e-03 4.03e-04 -2.24e-04 -5.15e-05 -4.97e-04 4.93e-04
## 194 -4.45e-05 4.38e-05 5.73e-05 3.17e-05 -1.24e-06 -2.90e-06 9.34e-06
## 195 -1.10e-03 1.12e-03 4.43e-03 -1.46e-03 -1.71e-04 1.71e-04 2.86e-04
## 196 1.21e-03 -1.20e-03 3.86e-03 -1.57e-03 -2.61e-04 8.18e-05 1.73e-04
## 197 1.84e-04 -1.79e-04 -1.17e-03 -1.81e-04 -3.90e-05 6.62e-05 -1.15e-05
## 198 -6.18e-04 6.14e-04 2.01e-03 3.67e-05 3.39e-05 -4.57e-05 6.30e-05

```

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## 199  5.91e-03 -5.92e-03 -4.40e-03 -6.23e-05 -6.52e-05 -3.78e-04  6.90e-04
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## 201 -5.96e-03  5.94e-03  4.86e-03 -2.27e-04  2.83e-04  2.54e-05  1.26e-03
## 202 -1.24e-02  1.25e-02  8.96e-03 -2.62e-03 -2.97e-04  5.24e-04  9.90e-04
## 203 -1.32e-02  1.27e-02  1.22e-02 -2.41e-03  3.48e-03  1.16e-03  4.16e-03
## 204  1.93e-03 -1.92e-03  9.05e-04 -1.75e-04 -5.29e-06 -6.81e-05 -6.39e-04
## 205 -3.08e-03  3.78e-03 -2.06e-02  4.24e-03 -4.57e-03 -4.89e-04 -5.33e-03
## 206 -8.10e-03  8.07e-03  1.17e-02 -2.09e-03  2.89e-04 -3.43e-04  4.75e-04
## 207  8.79e-04 -8.87e-04 -1.73e-03  2.20e-05  2.14e-05 -2.00e-04 -8.86e-04
## 208 -1.05e-02  1.05e-02 -5.90e-03  5.90e-04  2.15e-04  1.34e-03  2.83e-03
## 209  6.71e-05 -6.49e-05  3.60e-04 -6.78e-06 -1.58e-05  4.17e-05  2.26e-04
## 210  1.35e-04 -1.38e-04 -1.67e-04 -7.17e-06  1.02e-05 -6.47e-05 -2.58e-04
## 211 -2.07e-04  2.06e-04 -2.05e-04  1.71e-04  5.18e-05  9.17e-06 -7.55e-06
## 212 -1.09e-03  1.10e-03 -4.03e-03  8.41e-04  2.71e-05  3.35e-04  2.42e-05
## 213 -3.52e-03  3.50e-03 -6.60e-03  2.25e-03  6.59e-04  2.83e-04 -1.35e-04
## 214 -2.68e-02  2.68e-02 -7.43e-04  7.58e-04  6.37e-04  2.52e-03  5.53e-03
## 215  6.46e-03 -6.44e-03 -4.13e-03 -9.09e-04 -1.29e-04 -1.20e-04 -5.72e-04
## 216  2.15e-04 -2.22e-04  1.34e-05 -7.16e-04  1.25e-05 -1.94e-04 -8.20e-05
## 217 -1.04e-03  1.04e-03 -1.96e-03  6.68e-04  1.96e-04  8.40e-05 -4.01e-05
## 218 -6.49e-03  6.47e-03  3.73e-03 -1.53e-03  2.47e-04 -1.43e-04  2.42e-04
## 219  2.59e-02 -2.56e-02 -2.90e-02  2.13e-03 -2.70e-03 -1.05e-03 -3.91e-03
## 220 -8.80e-04  8.76e-04 -5.00e-04  1.48e-05  5.94e-05 -6.59e-05 -4.75e-04
## 221  2.56e-03 -2.57e-03  8.49e-05 -9.78e-04 -5.93e-05 -3.76e-04 -2.13e-04
## 222  2.26e-03 -2.28e-03  2.75e-03 -2.82e-04  1.17e-05 -3.43e-04  7.76e-04
## 223 -6.09e-05  6.16e-05  1.82e-04 -2.06e-05  3.50e-05 -1.02e-02 -9.48e-06
## 224  6.78e-04 -6.73e-04 -2.64e-04 -5.63e-05  1.26e-05  5.68e-06 -3.62e-04
## 225  1.82e-03 -1.84e-03  9.82e-04  6.40e-05 -1.52e-04 -2.14e-04  7.79e-04
## 226 -3.31e-03  3.35e-03 -1.45e-02 -2.18e-04 -1.24e-04  6.34e-04 -9.88e-05
## 227 -3.67e-03  3.71e-03 -8.89e-03 -1.39e-03 -3.85e-04  5.37e-04  1.21e-04
## 228 -4.20e-03  4.18e-03 -3.20e-02  6.60e-03  1.63e-03  8.86e-04 -9.37e-04
## 229 -5.44e-03  5.44e-03 -5.28e-03  2.65e-04  5.90e-04  3.68e-04  1.69e-03
## 230  1.36e-04 -1.13e-04  2.37e-03 -1.57e-03  1.03e-04  8.43e-05 -2.11e-04
## 231 -2.38e-03  2.37e-03  3.75e-03 -1.52e-04  2.06e-04 -4.47e-06  7.25e-04
## 232  2.73e-03 -2.74e-03  4.63e-04 -9.14e-05 -7.26e-07 -1.74e-04  2.33e-04
## 233  5.03e-03 -5.05e-03 -3.22e-03  3.02e-04 -3.16e-04 -3.31e-04  1.17e-03
## 234 -2.99e-03  2.97e-03  6.53e-03 -1.01e-04 -1.88e-06 -1.13e-04  1.10e-03
## 235 -1.29e-02  1.27e-02  4.13e-02  4.45e-03 -1.34e-04 -1.15e-03  2.63e-03
## 236  3.78e-03 -3.74e-03 -1.37e-02 -8.01e-04 -4.75e-04  2.54e-04 -3.83e-04
## 237 -1.39e-02  1.37e-02  1.87e-02  5.72e-03  1.30e-03  1.42e-03  4.65e-03
## 238 -1.41e-02  1.41e-02 -9.14e-03 -1.75e-03  5.53e-04  3.83e-04  2.12e-04
## 239  1.06e-03 -1.01e-03 -5.24e-03 -2.01e-03  1.49e-04  3.34e-04 -5.63e-04
## 240  1.69e-03 -1.66e-03 -1.11e-03 -1.83e-03  8.92e-05  1.42e-04 -4.32e-04
## 241  8.84e-03 -8.84e-03 -2.19e-02 -1.48e-03 -1.81e-04 -4.39e-04 -1.15e-03
## 242 -4.19e-03  4.19e-03  1.93e-03 -2.44e-03  8.63e-04 -1.79e-04 -4.99e-04
## 243  3.98e-05 -3.18e-05 -1.58e-03  9.85e-05 -1.36e-04  6.75e-05 -5.76e-04
## 244  1.67e-04 -1.67e-04  2.49e-07 -8.84e-06 -2.03e-06 -5.41e-06 -4.09e-05
## 245  4.24e-03 -4.28e-03 -3.33e-03  3.17e-03  7.39e-04 -2.80e-04 -5.26e-04
## 246  3.78e-03 -3.74e-03 -1.37e-02 -8.01e-04 -4.75e-04  2.54e-04 -3.83e-04
## 247  5.34e-03 -5.33e-03  9.98e-03 -2.54e-03 -7.56e-04 -4.70e-04  1.34e-04
## 248 -2.89e-03  2.93e-03  5.14e-03 -2.64e-03  2.75e-04  2.75e-04 -1.82e-04
## 249  1.77e-03 -1.77e-03  9.51e-04 -5.98e-05 -1.48e-04 -1.05e-04 -4.04e-04
## 250 -1.29e-03  1.29e-03  9.11e-05  1.03e-05  9.41e-05  5.64e-05  2.65e-04
## 251  9.46e-03 -9.45e-03  5.08e-03 -3.19e-04 -7.92e-04 -5.62e-04 -2.16e-03
## 252 -5.66e-03  5.67e-03  3.66e-03 -3.59e-06  1.15e-04  4.73e-04  1.45e-03

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## 253 -3.76e-03 3.77e-03 8.86e-04 -5.82e-04 2.76e-05 2.88e-04 2.62e-04
## 254 -1.21e-02 1.21e-02 -3.46e-03 3.00e-04 8.56e-04 6.60e-04 2.24e-03
## 255 6.33e-03 -6.35e-03 -2.30e-03 -1.97e-03 -1.50e-04 -7.71e-04 -5.50e-04
## 256 -2.79e-03 2.80e-03 8.19e-04 9.03e-04 6.59e-05 3.52e-04 2.41e-04
## 257 9.88e-05 -9.98e-05 -1.34e-05 -5.99e-06 2.05e-05 -9.10e-06 8.73e-05
## 258 -6.31e-03 6.33e-03 2.08e-03 -9.18e-04 2.77e-04 3.78e-04 1.79e-04
## 259 4.35e-03 -4.35e-03 2.55e-04 -5.86e-05 -3.28e-04 -2.05e-04 -9.15e-04
## 260 2.09e-02 -2.09e-02 -1.20e-03 3.33e-05 -9.24e-04 -1.31e-03 1.21e-03
## 261 1.70e-03 -1.71e-03 -9.37e-04 -4.73e-04 -4.09e-05 -1.88e-04 -1.51e-04
## 262 8.12e-03 -8.13e-03 -2.61e-03 -9.11e-05 7.87e-06 -4.05e-04 6.08e-04
## 263 1.58e-03 -1.59e-03 1.16e-03 -7.99e-04 -3.50e-05 -3.00e-04 -1.21e-04
## 264 -1.61e-02 1.61e-02 -4.33e-03 3.39e-03 3.19e-04 6.66e-04 1.18e-03
## 265 -1.15e-03 1.16e-03 7.41e-05 -4.55e-05 1.99e-05 6.22e-05 6.15e-05
## 266 -6.82e-03 6.86e-03 -7.32e-03 -1.01e-03 -1.72e-04 6.41e-04 2.74e-04
## 267 5.37e-03 -5.35e-03 -1.09e-03 -1.62e-03 -6.15e-04 -1.78e-04 -1.53e-04
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## 269 -7.31e-03 7.34e-03 8.47e-03 -1.86e-03 3.48e-04 3.23e-04 2.53e-04
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## 271 -9.70e-05 9.22e-05 5.39e-04 2.10e-05 -2.52e-05 -3.72e-05 2.73e-04
## 272 5.30e-03 -5.31e-03 -2.80e-03 -1.23e-04 -4.90e-05 -3.91e-04 7.52e-04
## 273 -4.88e-04 4.77e-04 5.11e-03 -2.41e-04 9.75e-05 -1.36e-04 4.99e-04
## 274 -2.20e-03 2.19e-03 -1.38e-03 5.62e-04 2.04e-04 1.34e-04 3.58e-05
## 275 -1.35e-02 1.35e-02 -3.42e-03 7.14e-04 2.65e-04 6.26e-04 2.32e-03
## 276 3.51e-07 -5.21e-07 9.85e-06 1.24e-06 -1.09e-06 -1.35e-06 1.02e-05
## 277 4.15e-03 -4.14e-03 1.98e-03 -1.17e-04 -4.04e-04 -2.29e-04 -1.18e-03
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## 279 -2.01e-03 1.97e-03 7.22e-03 -5.74e-06 -1.26e-04 -2.74e-04 1.92e-03
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## 281 -1.15e-04 1.22e-04 -1.69e-03 -2.37e-04 -8.12e-05 6.92e-05 -7.68e-06
## 282 -5.48e-05 5.53e-05 1.11e-04 -3.85e-05 4.24e-06 3.52e-06 -1.01e-06
## 283 6.50e-04 -6.54e-04 -6.12e-04 -5.91e-06 8.68e-05 -3.62e-05 3.72e-04
## 284 2.41e-03 -2.41e-03 1.15e-03 -6.82e-05 -2.35e-04 -1.33e-04 -6.83e-04
## 285 7.22e-05 -7.19e-05 2.70e-05 -7.46e-06 5.81e-07 -1.59e-06 -3.13e-05
## 286 -1.05e-03 1.07e-03 -1.32e-06 7.32e-05 -2.32e-04 1.04e-04 -9.87e-04
## 287 -2.00e-03 1.98e-03 -2.49e-03 4.29e-04 -1.02e-04 4.70e-06 1.67e-03
## 288 -1.53e-02 1.50e-02 1.26e-02 -3.03e-03 4.47e-03 1.46e-03 2.18e-03
## 289 -4.13e-04 4.22e-04 5.30e-04 -5.59e-04 5.44e-05 6.58e-05 -6.45e-05
## 290 -2.06e-02 2.07e-02 -8.83e-03 4.44e-03 5.99e-04 2.28e-03 1.14e-03
## 291 4.13e-03 -4.13e-03 3.12e-03 -1.78e-04 -3.62e-04 -2.69e-04 -9.76e-04
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## 295 2.41e-04 -2.47e-04 -2.27e-04 -2.02e-05 2.31e-05 -1.39e-04 -5.44e-04
## 296 -3.32e-03 3.33e-03 3.29e-03 -4.22e-05 -1.17e-04 1.22e-04 -6.21e-04
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## 298 3.58e-03 -3.57e-03 -4.37e-03 1.83e-04 -3.78e-04 -1.79e-05 -1.32e-03
## 299 -2.64e-04 2.65e-04 -1.38e-04 1.53e-05 4.34e-06 3.82e-05 9.01e-05
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## 304 5.74e-05 -5.84e-05 -3.09e-04 6.15e-06 3.30e-05 -3.91e-07 1.23e-04
## 305 -4.57e-04 4.49e-04 -1.41e-03 -9.70e-04 4.69e-05 -2.03e-04 -1.16e-04
## 306 -3.03e-03 3.03e-03 1.32e-03 -2.91e-05 2.34e-04 9.89e-05 7.07e-04

```

```

## 307  2.85e-03 -2.83e-03 -7.22e-03 -1.33e-04 -1.93e-04  7.37e-05 -2.67e-04
## 308 -8.74e-06  8.61e-06 -3.07e-06 -2.27e-07  9.26e-07 -2.18e-06 -1.05e-05
## 309 -1.13e-04  1.11e-04 -3.42e-03  1.20e-04  2.00e-04  6.92e-05  6.63e-04
## 310  4.20e-03 -4.20e-03  4.28e-04 -7.11e-05 -2.86e-04 -2.09e-04 -7.59e-04
## 311  7.98e-03 -8.00e-03 -5.78e-03  2.78e-04 -3.56e-04 -3.64e-04  4.83e-04
## 312 -1.85e-02  1.85e-02  1.45e-02 -2.87e-03 -1.43e-04  6.94e-04  1.41e-03
## 313  2.17e-03 -2.17e-03 -8.12e-04 -1.87e-05  7.26e-07 -1.05e-04  1.53e-04
## 314  2.47e-03 -2.46e-03  5.94e-04 -1.65e-04 -2.66e-05 -9.20e-05 -6.33e-04
## 315 -4.31e-03  4.32e-03  1.10e-03 -7.32e-04 -7.49e-05  2.34e-04  2.91e-04
## 316  2.07e-02 -2.07e-02 -5.62e-03  2.04e-04 -8.86e-04 -1.15e-03  9.21e-04
## 317 -2.33e-03  2.33e-03 -4.57e-03  1.14e-03  3.36e-04  2.11e-04 -6.48e-05
## 318  8.27e-04 -8.40e-04  3.30e-03 -8.96e-04 -1.43e-05 -3.25e-04 -3.82e-05
## 319 -3.81e-03  4.13e-03  5.80e-02 -6.25e-04 -3.46e-03 -6.73e-04 -4.86e-05
## 320 -3.52e-03  3.50e-03 -6.60e-03  2.25e-03  6.59e-04  2.83e-04 -1.35e-04
## 321  1.09e-03 -1.08e-03 -4.12e-04  4.72e-05 -1.07e-04 -6.49e-05 -1.37e-04
## 322 -4.51e-02  4.51e-02  8.62e-02  5.38e-03  1.07e-03  2.11e-03  4.95e-03
## 323 -2.30e-03  2.31e-03  4.19e-04 -4.99e-04 -5.86e-06  2.07e-04  1.72e-04
## 324  1.98e-03 -2.18e-03 -4.36e-02  4.18e-03  1.94e-03  1.59e-03 -2.61e-03
## 325 -8.79e-03  8.75e-03  5.16e-02  8.35e-04  9.53e-05 -2.26e-04  1.90e-03
## 326 -1.29e-04  1.29e-04 -1.06e-04  3.58e-05  1.25e-05  8.50e-06  1.42e-06
## 327  1.11e-03 -1.11e-03 -1.04e-03 -2.31e-04 -2.72e-05 -9.50e-05 -1.02e-04
## 328 -6.18e-04  6.17e-04 -1.16e-03  2.94e-04  8.76e-05  5.45e-05 -1.55e-05
## 329 -9.12e-03  9.11e-03 -3.45e-03  5.76e-04  1.57e-04  4.31e-04  1.78e-03
## 330  8.99e-04 -8.86e-04 -1.16e-03 -6.41e-04  2.52e-05  5.87e-05 -1.89e-04
## 331 -5.04e-04  5.08e-04  2.98e-05 -1.83e-04 -1.28e-05  6.14e-05  4.43e-05
## 332 -2.92e-03  2.91e-03  9.69e-03  1.21e-03 -4.02e-04  1.07e-04  8.45e-04
## 333  3.52e-03 -3.53e-03 -2.46e-03  6.82e-04 -1.25e-05 -2.35e-04 -2.88e-04
## 334  2.74e-03 -2.76e-03  3.33e-03 -3.43e-04  1.41e-05 -4.16e-04  9.41e-04
## 335 -4.36e-03  4.37e-03  6.27e-04 -3.96e-04  1.77e-04  2.62e-04  1.41e-04
## 336 -2.40e-03  2.39e-03 -4.48e-03  1.14e-03  3.39e-04  2.11e-04 -6.02e-05
## 337 -4.49e-04  4.47e-04 -3.03e-04  4.63e-05  5.20e-07  1.75e-05  1.55e-04
## 338  2.90e-02 -2.90e-02 -1.20e-02 -8.45e-05 -5.58e-04 -1.26e-03 -1.96e-04
## 339  2.43e-03 -2.42e-03  1.93e-03 -9.27e-04 -2.31e-05 -9.77e-05 -2.11e-04
## 340 -1.80e-03  1.82e-03  7.81e-03 -1.90e-03  1.64e-04  4.52e-05 -1.61e-05
## 341  1.06e-02 -1.06e-02  8.34e-03 -3.23e-03 -9.17e-04 -1.65e-03 -4.45e-03
## 342  9.06e-04 -9.04e-04  6.21e-04 -2.82e-05 -1.19e-04 -5.00e-05 -3.71e-04
## 343  1.39e-03 -1.39e-03  2.79e-03 -5.63e-04 -1.67e-04 -1.33e-04  3.05e-05
## 344 -4.55e-04  4.53e-04 -1.10e-04  1.70e-04  5.92e-05  1.97e-05  6.48e-06
## 345  9.31e-04 -9.51e-04  6.31e-03  2.81e-04  4.58e-05 -3.37e-04  3.91e-05
## 346 -5.30e-03  5.29e-03 -1.25e-02  2.85e-03  8.16e-04  5.30e-04 -2.09e-04
## 347 -1.87e-03  1.85e-03  8.06e-03 -3.86e-04  3.26e-04 -1.80e-04  1.37e-03
## 348  6.55e-03 -6.52e-03  2.50e-03 -2.12e-03 -7.60e-05 -2.14e-04 -5.87e-04
## 349 -1.20e-02  1.19e-02  3.81e-03 -3.01e-03  4.71e-04 -2.61e-04  3.42e-04
## 350 -1.94e-03  1.94e-03  6.93e-04  2.69e-05  3.76e-05  1.91e-04  5.38e-04
## 351 -3.69e-03  3.67e-03 -1.59e-03 -1.81e-03  1.79e-04 -2.61e-04 -6.02e-05
## 352 -2.39e-03  1.21e-03 -3.01e-03  6.58e-02  1.05e-02  3.98e-02  6.55e-02
## 353 -1.91e-03  1.53e-03 -6.73e-04  2.10e-02  3.39e-03  1.28e-02  2.10e-02
## 354  6.54e-04 -6.68e-04 -8.08e-04 -3.46e-05  4.95e-05 -3.12e-04 -1.25e-03
## 355  5.40e-03 -5.45e-03  9.94e-03 -1.36e-04 -4.61e-04 -8.28e-04  2.43e-03
## 356  2.22e-03 -2.20e-03 -4.62e-03 -1.07e-03 -4.12e-04  7.31e-05 -1.11e-04
## 357  4.97e-04 -4.93e-04 -1.72e-03 -7.49e-05 -5.30e-05  2.92e-05 -5.11e-05
## 358  2.92e-02 -2.97e-02 -4.12e-03  4.32e-03  3.05e-03 -4.78e-04 -4.66e-03
## 359 -3.00e-03  3.00e-03  2.57e-03 -3.26e-05 -4.10e-05  1.10e-04 -3.23e-04
## 360  3.33e-03 -3.35e-03  6.74e-04  7.07e-05 -2.15e-04 -2.98e-04  8.28e-04

```

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## 361  7.39e-04 -7.34e-04  5.99e-04 -3.75e-04  1.29e-07 -1.99e-05 -8.04e-05
## 362  9.83e-04 -6.93e-04  4.44e-04 -1.67e-02 -2.71e-03 -1.03e-02 -1.67e-02
## 363 -8.90e-03  8.92e-03  2.20e-03 -1.18e-03 -6.13e-05  4.70e-04  5.72e-04
## 364  3.92e-03 -3.87e-03  3.32e-03 -3.11e-03  8.64e-05  1.11e-05 -6.21e-04
## 365  5.03e-03 -5.02e-03 -9.87e-04 -1.81e-06 -4.16e-04 -1.94e-04 -1.24e-03
## 366 -3.49e-04  3.66e-04 -1.85e-03 -9.79e-04 -2.85e-04  1.23e-04  6.02e-05
## 367 -7.89e-04  7.92e-04  3.27e-04  1.41e-05 -4.44e-05  4.50e-05 -2.26e-04
## 368  1.32e-03 -1.32e-03 -2.78e-04  3.13e-04  4.86e-05 -7.77e-05 -9.47e-05
## 369  5.79e-03 -5.78e-03 -7.90e-04 -3.01e-05 -4.17e-04 -2.44e-04 -1.18e-03
## 370  1.16e-02 -1.19e-02 -1.61e-02 -1.18e-03  2.11e-03  4.88e-04  1.70e-03
## 371 -3.12e-03  3.07e-03  2.27e-02  4.50e-04  4.53e-04 -5.48e-04  5.51e-04
## 372  4.55e-04 -4.56e-04  3.18e-05 -1.37e-05  2.54e-06 -2.82e-05  4.78e-05
## 373  2.98e-02 -2.98e-02 -2.12e-02  1.52e-04 -7.46e-04 -1.28e-03 -1.81e-04
## 374  2.66e-04 -2.60e-04 -3.57e-04 -3.05e-04 -5.67e-05  5.48e-05  1.19e-05
## 375  4.82e-03 -4.83e-03 -5.49e-03  3.37e-06 -2.34e-05 -2.95e-04  7.48e-04
## 376 -6.28e-04  6.42e-04 -2.80e-03 -5.70e-04 -1.73e-04  1.47e-04  2.29e-05
## 377 -5.86e-04  6.08e-04  2.48e-04 -1.24e-03  1.15e-04  1.59e-04 -1.86e-04
## 378  1.01e-03 -1.00e-03  1.01e-04 -1.27e-05 -8.97e-05 -4.62e-05 -2.64e-04
## 379  2.99e-03 -2.99e-03 -1.51e-03 -1.19e-05  2.11e-05 -1.36e-04  2.77e-04
## 380 -3.27e-03  3.27e-03 -1.03e-03  8.53e-05  2.33e-04  1.81e-04  6.08e-04
## 381  3.13e-04 -3.13e-04 -8.21e-05 -4.96e-06  3.40e-06 -1.67e-05  3.60e-05
## 382 -6.06e-03  6.03e-03  1.19e-02  4.26e-04  3.05e-04 -1.75e-04  4.70e-04
## 383  6.27e-02 -6.32e-02  9.36e-03  1.12e-03  4.25e-03 -2.09e-03 -7.82e-03
## 384 -1.55e-03  1.55e-03 -5.89e-04  4.45e-04  1.62e-04  8.02e-05  2.88e-05
## 385 -7.27e-04  7.14e-04  3.04e-04  1.51e-04 -7.06e-05 -6.34e-05  9.26e-04
## 386 -3.27e-03  3.27e-03 -1.03e-03  8.53e-05  2.33e-04  1.81e-04  6.08e-04
## 387  2.00e-03 -1.99e-03 -1.57e-03 -4.14e-04 -1.88e-04 -3.99e-05 -9.43e-05
## 388  5.68e-03 -5.67e-03 -6.38e-04  3.54e-06 -6.08e-04 -2.08e-04 -1.92e-03
## 389  5.61e-03 -5.63e-03 -2.77e-03  1.81e-04 -2.81e-04 -3.20e-04  6.29e-04
## 390 -1.18e-02  1.18e-02 -1.62e-03  5.89e-04  2.12e-04  4.91e-04  2.22e-03
## 391  2.49e-03 -2.49e-03  1.17e-03 -2.26e-04 -6.84e-06 -8.81e-05 -8.26e-04
## 392  3.89e-02 -3.90e-02  8.86e-04 -2.51e-04 -1.62e-03 -2.42e-03  1.33e-03
## 393  3.63e-03 -3.64e-03  2.68e-04 -1.02e-04 -2.16e-05 -2.18e-04  2.19e-04
## 394 -4.22e-03  4.19e-03  2.48e-04  2.38e-03  7.87e-04  1.05e-04  2.04e-05
## 395 -2.22e-03  2.10e-03  4.88e-02 -1.61e-03 -3.84e-04 -1.62e-03  4.53e-03
## 396 -3.44e-03  3.44e-03  2.44e-03 -4.36e-04 -1.58e-06  1.32e-04  2.50e-04
## 397 -2.53e-04  2.53e-04 -2.94e-05  1.50e-05  2.90e-06  8.78e-06  6.33e-05
## 398 -2.16e-03  2.10e-03  1.37e-02  2.44e-03  8.92e-04 -4.21e-04  1.72e-04
## 399 -1.64e-03  1.65e-03  2.69e-03 -7.59e-04 -1.40e-04  4.32e-05  1.93e-04
## 400  2.90e-04 -3.04e-04  4.25e-04 -8.87e-05  8.24e-05 -3.11e-06  9.44e-05
## 401  5.39e-03 -5.37e-03 -8.85e-03 -3.66e-04 -3.46e-04 -2.52e-06 -4.04e-04
## 402 -2.44e-03  2.40e-03  1.39e-02 -7.33e-04  1.71e-04 -4.55e-04  1.50e-03
## 403  3.61e-03 -3.62e-03 -2.05e-03  1.55e-04 -1.97e-04 -2.15e-04  5.55e-04
## 404  2.13e-03 -2.14e-03 -1.12e-03  6.74e-04  3.45e-05 -2.05e-04 -1.95e-04
## 405  1.02e-02 -1.02e-02 -7.39e-03 -9.87e-06 -2.00e-04 -5.22e-04  4.25e-04
## 406  1.83e-03 -1.83e-03  6.78e-04 -3.40e-05 -2.23e-04 -8.76e-05 -6.99e-04
## 407  3.78e-03 -3.76e-03  7.09e-03 -2.42e-03 -7.08e-04 -3.04e-04  1.45e-04
## 408  5.68e-03 -5.70e-03  3.98e-04 -1.71e-04  3.18e-05 -3.52e-04  5.97e-04
## 409 -6.67e-04  6.85e-04 -1.59e-03 -7.58e-04  9.06e-05  1.72e-04 -1.54e-04
## 410  3.08e-03 -3.07e-03  5.53e-03 -1.81e-03 -3.44e-04 -4.19e-05  1.35e-04
## 411 -1.56e-02  1.55e-02  3.60e-02  4.17e-03  1.98e-03 -4.59e-04  1.12e-03
## 412  1.65e-04 -1.65e-04  3.79e-05 -3.42e-06 -1.30e-05 -8.52e-06 -3.58e-05
## 413  9.77e-05 -9.76e-05  1.70e-05 -1.80e-06 -7.57e-06 -4.90e-06 -2.10e-05
## 414  1.30e-04 -1.31e-04 -1.46e-04  9.12e-06 -7.10e-06 -5.87e-06  1.99e-05

```

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## 415  6.45e-03 -6.40e-03 -7.06e-03 -1.95e-03 -3.17e-05  9.13e-05 -8.46e-04
## 416 -2.07e-03  2.07e-03 -7.54e-04  5.84e-05  1.49e-04  1.17e-04  3.88e-04
## 417 -7.38e-03  7.41e-03  1.71e-02 -3.25e-03  4.09e-04  1.91e-04  2.75e-04
## 418 -8.88e-04  8.87e-04 -3.32e-03  6.34e-04  1.67e-04  1.19e-04 -7.09e-05
## 419  7.79e-03 -7.78e-03 -7.62e-04 -6.49e-05 -5.07e-04 -3.47e-04 -1.37e-03
## 420  1.88e-03 -1.90e-03 -4.18e-03  9.94e-04 -1.18e-04 -7.26e-05 -3.56e-05
## 421  2.61e-03 -2.60e-03 -2.47e-03  8.04e-05 -1.72e-04 -5.18e-05 -5.34e-04
## 422 -2.27e-03  2.26e-03 -1.17e-02  2.66e-03  6.86e-04  3.52e-04 -3.26e-04
## 423  5.17e-04 -5.02e-04 -2.10e-03 -5.74e-04  3.85e-05  1.04e-04 -1.89e-04
## 424  2.59e-03 -2.61e-03 -1.31e-03 -5.91e-05 -1.40e-06 -4.53e-04 -1.56e-03
## 425  5.20e-04 -5.19e-04  5.27e-04 -4.14e-06 -4.24e-05 -4.72e-06 -2.26e-04
## 426  1.74e-02 -1.75e-02 -6.59e-03 -9.00e-05 -2.87e-04 -7.88e-04  9.32e-05
## 427 -2.47e-03  2.47e-03  2.21e-03 -2.74e-04  1.43e-04  3.69e-05  1.00e-04
## 428  1.44e-03 -1.43e-03 -4.41e-03 -3.17e-04 -1.72e-07  1.02e-04 -2.55e-04
## 429  1.74e-03 -1.73e-03  5.48e-03 -1.23e-03  4.14e-06 -1.45e-04 -1.26e-04
## 430 -2.70e-07  2.71e-07  3.37e-07 -5.36e-09  2.58e-09  2.91e-08  1.17e-07
## 431 -4.48e-03  4.50e-03  5.87e-03 -1.05e-04  4.62e-05  4.57e-04  1.88e-03
## 432  1.72e-04 -1.59e-04  9.82e-05  1.17e-04 -1.86e-04 -5.71e-05 -5.88e-05
## 433  2.04e-03 -2.05e-03  9.37e-04 -1.58e-03  3.78e-04 -3.48e-04 -5.31e-04
## 434 -2.84e-03  2.86e-03  5.72e-03 -2.00e-03  2.20e-04  1.82e-04 -5.24e-05
## 435 -1.78e-03  1.78e-03  2.06e-03  8.90e-05 -1.53e-04  1.28e-04  8.05e-04
## 436  9.43e-03 -9.41e-03 -1.13e-02  3.75e-04 -5.04e-04 -1.41e-04 -1.55e-03
## 437 -5.96e-04  5.92e-04  1.37e-03  1.59e-04  7.58e-05 -1.75e-05  4.26e-05
## 438  6.94e-03 -7.28e-03 -1.45e-02  2.61e-03  4.62e-03  1.18e-03 -4.51e-03
## 439  6.91e-03 -6.89e-03 -2.21e-04 -6.39e-05 -2.97e-04 -6.05e-05  8.61e-04
## 440 -4.05e-04  4.18e-04  9.47e-03 -2.04e-03 -2.56e-04  5.30e-05  4.02e-04
## 441  1.56e-03 -1.55e-03 -3.82e-04  2.60e-05 -2.45e-04 -3.71e-05 -8.38e-04
## 442  7.61e-04 -7.63e-04  6.39e-04 -6.68e-04  1.60e-04 -1.47e-04 -2.11e-04
## 443 -6.44e-03  6.44e-03  6.55e-03 -1.22e-04 -6.52e-05  2.03e-04 -5.72e-04
## 444 -3.70e-03  3.69e-03 -1.37e-03  6.86e-05  4.50e-04  1.77e-04  1.41e-03
## 445 -9.16e-03  9.19e-03  2.35e-03 -1.56e-03 -1.59e-04  4.98e-04  6.18e-04
## 446 -2.53e-04  2.81e-04 -6.50e-03 -7.31e-04  1.02e-04  3.10e-04 -3.19e-04
## 447  4.10e-03 -4.13e-03  5.08e-03 -9.65e-05 -2.79e-04 -4.93e-04  1.17e-03
## 448  6.96e-03 -6.98e-03 -1.63e-03  1.66e-04 -3.67e-04 -4.63e-04  9.61e-04
## 449 -6.94e-04  7.29e-04 -3.68e-03 -1.95e-03 -5.67e-04  2.44e-04  1.20e-04
## 450  1.30e-03 -1.29e-03  1.30e-04 -1.64e-05 -1.16e-04 -5.95e-05 -3.40e-04
## 451 -1.00e-03  1.01e-03  2.31e-04  2.78e-05 -6.32e-05  6.39e-05 -3.20e-04
## 452  1.08e-04 -9.01e-05  1.89e-03 -1.26e-03  8.27e-05  6.74e-05 -1.69e-04
## 453  5.70e-03 -5.70e-03  4.08e-03 -2.36e-04 -4.95e-04 -3.65e-04 -1.34e-03
## 454  2.55e-02 -2.60e-02 -2.79e-03  3.79e-03  2.71e-03 -4.31e-04 -4.10e-03
## 455 -1.11e-03  1.11e-03 -3.49e-04  2.89e-05  7.87e-05  6.12e-05  2.06e-04
## 456  2.92e-03 -2.92e-03  4.67e-04 -4.05e-04 -1.48e-04 -1.07e-04 -9.38e-05
## 457 -4.95e-04  4.94e-04 -1.88e-04  1.42e-04  5.17e-05  2.56e-05  9.19e-06
## 458  2.49e-02 -2.50e-02 -2.36e-03  2.78e-05 -1.07e-03 -1.50e-03  1.11e-03
## 459  8.30e-03 -8.29e-03  1.90e-03 -1.72e-04 -6.50e-04 -4.28e-04 -1.80e-03
## 460  1.32e-03 -1.32e-03  7.15e-04 -4.73e-05 -9.85e-05 -8.10e-05 -2.54e-04
## 461 -1.20e-05  1.19e-05 -7.93e-05  2.71e-06  6.25e-06  1.87e-06  2.08e-05
## 462 -1.84e-03  1.93e-03 -6.47e-03  7.24e-04 -5.00e-04  1.30e-04 -6.70e-04
## 463 -4.27e-03  4.28e-03  1.30e-03 -9.94e-04 -1.48e-04  2.39e-04  3.13e-04
## 464 -4.35e-03  4.36e-03  2.27e-03 -9.74e-04  2.12e-04  2.70e-04  8.86e-05
## 465 -9.35e-04  9.22e-04  1.10e-03  9.67e-05 -5.19e-05 -6.15e-05  8.26e-04
## 466  9.34e-05 -1.32e-04 -3.95e-03  3.51e-03  9.43e-04 -5.40e-05 -3.62e-04
## 467 -1.24e-02  1.24e-02  3.18e-03 -2.11e-03 -2.15e-04  6.75e-04  8.37e-04
## 468 -1.53e-03  1.53e-03  2.40e-03 -4.76e-05 -1.16e-04  4.17e-05 -5.00e-04

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## 469 -2.73e-03 2.73e-03 -6.44e-03 1.47e-03 4.20e-04 2.73e-04 -1.08e-04
## 470 1.09e-03 -1.07e-03 -5.22e-03 -6.63e-04 -2.72e-04 1.33e-04 -9.98e-05
## 471 -2.75e-04 2.57e-04 3.93e-03 -3.89e-05 -8.34e-05 -1.80e-04 8.93e-04
## 472 -9.15e-05 8.98e-05 1.12e-04 1.18e-04 3.70e-05 -4.20e-06 -2.88e-06
## 473 1.18e-02 -1.19e-02 -5.03e-04 -2.52e-04 -1.52e-04 -6.56e-04 3.54e-04
## 474 1.67e-04 -1.68e-04 1.09e-04 4.75e-05 9.88e-06 -1.46e-05 -9.89e-06
## 475 -3.33e-04 3.11e-04 4.76e-03 -4.71e-05 -1.01e-04 -2.18e-04 1.08e-03
## 476 2.56e-03 -2.52e-03 -8.54e-03 -1.19e-03 5.26e-05 2.73e-04 -5.87e-04
## 477 8.94e-03 -8.96e-03 -3.87e-03 2.21e-04 -4.22e-04 -4.99e-04 7.64e-04
## 478 -1.44e-03 1.45e-03 4.01e-04 -4.90e-04 8.53e-05 1.19e-04 -1.12e-05
## 479 -2.08e-03 2.10e-03 4.36e-03 -1.32e-03 1.49e-04 1.13e-04 -7.97e-06
## 480 1.07e-02 -1.07e-02 2.90e-03 -5.79e-04 -2.11e-04 -5.04e-04 -1.86e-03
## 481 9.14e-06 -1.36e-05 2.57e-04 3.24e-05 -2.84e-05 -3.52e-05 2.65e-04
## 482 7.00e-04 -6.96e-04 9.57e-04 -2.82e-05 -1.70e-04 -3.85e-05 -5.74e-04
## 483 -2.03e-03 2.04e-03 -2.57e-03 -6.44e-04 -1.52e-04 2.19e-04 1.02e-04
## 484 1.41e-04 -1.42e-04 -9.52e-04 1.32e-04 -9.52e-05 -2.93e-02 7.54e-05
## 485 -1.64e-04 1.70e-04 -1.69e-03 9.60e-05 -7.32e-05 7.12e-05 -3.51e-04
## 486 -2.08e-03 2.10e-03 4.36e-03 -1.32e-03 1.49e-04 1.13e-04 -7.97e-06
## 487 -6.08e-04 6.18e-04 -3.92e-04 -4.76e-04 6.00e-05 9.83e-05 -6.97e-05
## 488 -4.02e-03 4.03e-03 -7.28e-04 -2.94e-04 2.08e-05 2.54e-04 2.06e-04
## 489 -1.06e-04 1.07e-04 1.85e-04 -4.54e-05 -7.88e-06 2.29e-06 1.24e-05
## 490 -4.61e-03 4.59e-03 6.56e-03 -2.69e-04 4.36e-04 5.02e-06 1.53e-03
## 491 -1.26e-02 1.26e-02 -9.02e-03 5.20e-04 1.09e-03 8.06e-04 2.95e-03
## 492 -6.70e-03 6.68e-03 5.05e-03 -1.75e-04 5.84e-04 1.45e-04 1.89e-03
## 493 1.30e-04 -1.37e-04 4.98e-05 3.69e-04 -3.33e-05 -4.89e-05 6.11e-05
## 494 6.50e-03 -6.51e-03 -4.19e-03 2.87e-05 -1.86e-05 -2.59e-04 3.24e-04
## 495 -1.09e-04 1.14e-04 7.16e-04 -4.02e-04 -5.53e-05 5.46e-05 5.99e-05
## 496 -4.28e-05 4.28e-05 1.77e-04 -1.71e-05 1.10e-05 3.13e-03 -5.07e-06
## 497 -5.21e-03 5.22e-03 -3.98e-04 1.60e-04 1.24e-04 5.01e-04 1.09e-03
## 498 4.17e-03 -4.19e-03 2.26e-03 -1.42e-03 -1.09e-04 -6.02e-04 -2.71e-04
## 499 -6.27e-03 6.25e-03 3.98e-03 -1.46e-03 2.37e-04 -1.38e-04 2.46e-04
## 500 -3.34e-03 3.34e-03 -5.01e-04 -9.41e-04 1.40e-04 -7.18e-05 4.27e-05
## 501 1.58e-03 -1.58e-03 -3.15e-03 -1.50e-04 -3.80e-05 -6.18e-05 -1.73e-04
## 502 9.61e-05 -9.57e-05 1.91e-04 6.58e-05 -5.69e-06 9.05e-06 7.54e-06
## 503 -2.50e-04 2.53e-04 -3.42e-03 -5.13e-05 2.15e-05 5.62e-05 -8.77e-05
## 504 -2.24e-03 2.23e-03 -1.23e-03 -6.86e-04 9.82e-05 -4.75e-05 -1.71e-06
## 505 -5.58e-04 5.62e-04 3.97e-03 8.04e-04 -1.70e-05 1.66e-04 2.16e-04
## 506 -1.99e-03 1.99e-03 1.01e-03 -1.14e-03 4.02e-04 -8.39e-05 -2.27e-04
## 507 -5.32e-03 5.33e-03 9.44e-04 3.17e-03 -7.58e-04 6.98e-04 1.22e-03
## 508 6.07e-03 -6.08e-03 1.77e-03 1.56e-04 -6.96e-04 -1.53e-04 1.35e-03
## 509 5.57e-03 -5.56e-03 -9.76e-03 -8.81e-04 2.02e-04 -1.91e-04 -8.56e-04
## 510 -2.43e-03 2.42e-03 3.33e-03 6.42e-04 -1.51e-04 1.41e-04 4.18e-04
## 511 -5.38e-03 5.37e-03 4.21e-04 9.65e-04 4.24e-04 2.31e-04 1.93e-04
## 512 6.67e-03 -6.68e-03 -8.45e-04 4.40e-04 -6.96e-05 -3.56e-04 -3.78e-04
## 513 5.49e-03 -5.47e-03 1.91e-03 -1.45e-03 -3.79e-04 -1.12e-04 -8.63e-05
## 514 -1.56e-03 1.57e-03 -1.07e-03 -6.78e-04 1.12e-04 1.95e-04 -8.49e-05
## 515 -2.43e-04 2.47e-04 -1.99e-04 -3.13e-04 -8.34e-05 3.43e-05 3.32e-05
## 516 1.31e-03 -1.30e-03 1.29e-03 -1.08e-03 -3.27e-04 -5.79e-05 4.77e-05
## 517 -2.16e-03 2.16e-03 -2.98e-05 2.84e-05 1.45e-04 1.03e-04 3.86e-04
## 518 2.51e-03 -2.47e-03 -1.21e-02 -1.54e-03 -6.29e-04 3.08e-04 -2.31e-04
## 519 -5.53e-03 5.51e-03 2.32e-03 -2.13e-03 2.36e-04 -3.20e-04 9.82e-05
## 520 -4.77e-03 4.75e-03 2.00e-03 -1.84e-03 2.04e-04 -2.76e-04 8.47e-05
## 521 -1.58e-03 1.59e-03 3.17e-03 1.21e-03 8.92e-06 3.34e-04 2.81e-04
## 522 -3.99e-03 3.97e-03 -3.40e-04 -1.79e-03 1.84e-04 -2.61e-04 -9.76e-06

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## 523 -1.71e-02 1.70e-02 8.83e-03 -1.50e-03 5.83e-04 2.89e-04 8.64e-04
## 524 -1.90e-03 1.90e-03 5.38e-04 3.41e-05 -5.02e-05 1.05e-04 -3.32e-04
## 525 6.78e-04 -6.77e-04 -1.67e-04 -1.71e-06 -2.64e-05 -1.22e-05 3.99e-05
## 526 -7.96e-02 7.94e-02 2.01e-01 -4.44e-03 2.10e-03 -6.77e-04 8.68e-03
## 527 8.30e-04 -8.51e-04 2.99e-03 -2.15e-04 4.10e-05 -4.54e-04 -1.26e-03
## 528 -3.13e-03 3.75e-03 -1.72e-02 3.72e-03 -4.04e-03 -4.42e-04 -4.68e-03
## 529 -2.50e-03 2.49e-03 1.05e-03 -9.63e-04 1.07e-04 -1.44e-04 4.43e-05
## 530 2.70e-04 -2.79e-04 1.69e-05 -9.00e-04 1.57e-05 -2.44e-04 -1.03e-04
## 531 -3.97e-03 3.95e-03 2.27e-03 -1.46e-03 1.66e-04 -2.20e-04 9.45e-05
## 532 6.87e-03 -6.91e-03 -2.45e-03 2.52e-03 4.93e-04 -4.18e-04 -5.85e-04
## 533 -2.64e-04 2.64e-04 5.23e-05 -6.85e-05 1.06e-05 -5.74e-06 6.47e-06
## 534 -1.06e-03 1.05e-03 5.14e-04 -9.32e-04 5.96e-05 -1.96e-04 -3.22e-05
## 535 -1.76e-02 1.77e-02 -1.41e-03 6.86e-03 4.06e-04 2.63e-03 1.46e-03
## 536 3.58e-03 -3.59e-03 1.99e-03 -3.77e-04 1.82e-04 -3.82e-04 -1.11e-03
## 537 -7.97e-03 8.54e-03 1.74e-02 -2.55e-03 -7.61e-03 5.80e-04 6.69e-03
## 538 -1.31e-03 1.35e-03 -3.65e-05 -1.66e-04 -2.57e-04 1.36e-04 2.81e-04
## 539 2.72e-03 -2.84e-03 3.12e-03 8.12e-04 7.61e-04 -2.87e-05 -7.41e-04
## 540 -5.72e-02 5.85e-02 6.21e-02 1.11e-02 -1.68e-02 -3.38e-03 -1.32e-03
## 541 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 542 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 543 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 544 2.23e-02 -2.27e-02 2.37e-03 4.68e-04 3.38e-03 -1.60e-03 -4.11e-03
## 545 -5.08e-03 5.14e-03 -3.90e-04 -1.95e-03 -4.16e-04 2.23e-04 1.69e-03
## 546 3.03e-02 -3.07e-02 -1.36e-02 5.10e-03 6.09e-03 -1.47e-04 -4.28e-03
## 547 -1.70e-03 1.72e-03 4.36e-04 3.69e-04 -8.39e-05 5.67e-05 -4.31e-04
## 548 1.08e-04 -9.23e-05 -9.23e-04 -4.92e-04 -1.52e-04 5.58e-06 3.49e-04
## 549 2.40e-03 -2.63e-03 3.27e-03 -1.28e-03 3.61e-03 3.77e-04 2.36e-03
## 550 -2.36e-03 2.33e-03 7.49e-03 -8.43e-04 2.76e-04 -5.47e-05 1.09e-03
## 551 -2.37e-03 2.41e-03 -1.70e-03 4.34e-04 -4.35e-04 2.16e-04 4.07e-05
## 552 2.59e-03 -2.22e-03 -4.87e-03 1.87e-03 -3.11e-03 6.76e-04 -1.59e-03
## 553 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 554 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 555 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 556 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 557 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 558 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 559 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 560 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 561 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 562 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 563 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 564 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 565 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 566 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 567 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 568 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 569 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 570 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 571 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 572 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 573 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 574 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 575 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 576 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05

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## 577 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 578 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 579 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 580 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 581 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 582 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 583 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 584 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 585 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 586 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 587 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 588 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 589 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 590 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 591 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 592 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 593 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 594 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 595 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 596 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 597 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 598 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 599 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 600 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 601 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 602 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 603 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 604 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 605 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 606 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 607 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 608 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 609 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 610 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 611 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 612 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 613 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 614 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 615 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 616 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 617 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 618 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 619 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 620 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 621 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 622 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 623 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 624 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 625 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 626 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 627 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 628 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 629 -2.46e-03 2.45e-03 -9.19e-04 2.54e-04 -1.98e-05 5.43e-05 1.07e-03
## 630 -5.82e-04 5.92e-04 3.13e-03 -6.23e-05 -3.34e-04 3.97e-06 -1.25e-03

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## 631 -3.10e-03 3.08e-03 -1.16e-03 3.20e-04 -2.49e-05 6.83e-05 1.34e-03
## 632 8.32e-02 -8.33e-02 -1.74e-02 -2.90e-05 -3.19e-03 -4.40e-03 2.18e-04
## 633 -1.44e-05 5.52e-06 -6.83e-03 1.73e-03 4.15e-04 1.26e-04 -2.69e-04
## 634 -1.00e-03 9.97e-04 1.05e-03 3.03e-05 -5.64e-06 -1.27e-05 4.15e-04
## 635 -1.06e-03 1.07e-03 3.72e-03 -1.11e-04 -1.62e-04 -1.53e-05 -6.01e-04
## 636 -1.34e-03 1.34e-03 1.05e-04 2.40e-04 1.06e-04 5.74e-05 4.81e-05
## 637 7.19e-03 -7.14e-03 -1.59e-02 -1.27e-03 -5.96e-05 2.72e-04 -1.03e-03
## 638 3.92e-03 -3.92e-03 9.84e-05 -9.51e-04 -3.75e-04 -1.69e-04 -1.14e-04
## 639 -2.82e-03 2.83e-03 -1.17e-03 -1.36e-04 2.73e-05 1.95e-04 1.26e-04
## 640 -1.64e-02 1.64e-02 7.85e-03 -1.75e-03 4.25e-05 7.28e-04 1.09e-03
## 641 6.20e-03 -6.20e-03 2.73e-03 -1.95e-04 -4.53e-04 -3.63e-04 -1.17e-03
## 642 5.17e-03 -5.18e-03 -2.18e-03 1.55e-04 -2.63e-04 -3.08e-04 6.16e-04
## 643 8.45e-03 -8.48e-03 -5.56e-03 3.85e-04 -4.51e-04 -4.73e-04 1.20e-03
## 644 -4.38e-03 4.39e-03 4.14e-03 -4.48e-05 -1.62e-04 1.68e-04 -8.56e-04
## 645 3.13e-04 -3.16e-04 -4.89e-02 7.84e-03 1.68e-03 1.10e-03 -1.58e-03
## 646 -7.78e-03 7.82e-03 3.13e-04 -1.92e-03 -3.22e-04 5.03e-04 5.41e-04
## 647 -3.30e-03 3.31e-03 2.59e-03 -5.13e-04 -2.55e-05 1.24e-04 2.52e-04
## 648 -1.66e-03 1.70e-03 -3.96e-03 -1.88e-03 2.25e-04 4.28e-04 -3.83e-04
## 649 7.58e-04 -7.68e-04 9.60e-05 -1.23e-04 5.90e-05 -1.76e-04 7.16e-04
## 650 7.04e-03 -7.39e-03 9.73e-03 2.19e-03 2.10e-03 -8.88e-05 -1.99e-03
## 651 -7.90e-03 7.45e-03 1.91e-02 2.90e-03 3.30e-03 6.10e-04 -1.65e-03
## 652 7.37e-03 -7.36e-03 -3.21e-03 7.07e-05 -5.70e-04 -2.40e-04 -1.72e-03
## 653 2.24e-03 -2.24e-03 1.54e-03 -6.98e-05 -2.95e-04 -1.24e-04 -9.18e-04
## 654 -3.08e-03 3.08e-03 2.27e-03 -2.71e-05 1.22e-05 1.14e-04 -1.32e-04
## 655 -2.05e-03 2.05e-03 -6.15e-04 4.86e-05 1.63e-04 1.09e-04 4.49e-04
## 656 1.56e-03 -1.56e-03 -9.80e-04 7.27e-06 -1.21e-05 -6.14e-05 4.87e-05
## 657 1.50e-03 -1.48e-03 -6.33e-03 -1.03e-04 -1.37e-04 1.18e-04 -1.86e-04
## 658 4.82e-04 -4.82e-04 -6.15e-04 6.79e-05 -6.42e-05 -1.57e-02 1.88e-05
## 659 -1.05e-02 1.05e-02 2.21e-03 -2.49e-03 -3.86e-04 6.17e-04 7.53e-04
## 660 -3.44e-04 3.67e-04 1.22e-03 -1.65e-03 -2.14e-04 -3.25e-04 -8.61e-04
## 661 4.61e-03 -4.57e-03 -1.40e-02 -8.98e-04 -1.02e-05 3.09e-04 -7.93e-04
## 662 -6.59e-04 6.61e-04 4.64e-05 1.67e-05 -9.15e-06 3.92e-05 -8.77e-05
## 663 -1.75e-02 1.75e-02 -5.11e-03 4.39e-04 1.24e-03 9.58e-04 3.25e-03
## 664 -2.18e-03 2.18e-03 -7.96e-03 2.02e-03 5.45e-04 2.63e-04 -2.08e-04
## 665 4.52e-03 -3.91e-03 -2.60e-03 -3.48e-02 -5.55e-03 -2.14e-02 -3.51e-02
## 666 2.31e-02 -2.31e-02 -1.38e-02 -3.38e-05 -5.54e-04 -1.11e-03 1.74e-04
## 667 -2.17e-03 2.21e-03 2.63e-03 -2.75e-03 -3.07e-04 -4.75e-04 -1.35e-03
## 668 -2.24e-03 2.24e-03 -3.47e-03 7.96e-04 2.49e-04 1.89e-04 -2.08e-05
## 669 -4.21e-04 4.24e-04 -8.93e-04 5.84e-05 -3.36e-05 5.65e-05 -1.93e-04
## 670 -5.73e-05 5.61e-05 4.93e-04 -2.39e-05 1.39e-05 -1.33e-05 6.49e-05
## 671 -3.49e-04 3.46e-04 1.71e-04 1.59e-04 -1.22e-06 -3.71e-06 4.87e-05
## 672 -7.31e-05 6.01e-05 1.98e-03 5.24e-04 9.26e-05 -1.66e-04 -1.47e-05
## 673 -1.25e-03 1.25e-03 5.33e-05 -3.12e-04 6.68e-05 1.01e-04 1.09e-06
## 674 1.36e-02 -1.36e-02 -8.68e-03 -1.38e-03 -7.44e-04 -9.60e-04 -3.21e-03
## 675 -2.25e-03 1.93e-03 -7.35e-03 2.31e-03 4.55e-03 1.38e-03 -3.62e-03
## 676 2.93e-03 -2.92e-03 -3.58e-03 1.50e-04 -3.09e-04 -1.47e-05 -1.08e-03
## 677 -1.62e-03 1.63e-03 -4.47e-03 -4.07e-04 -1.17e-04 2.44e-04 2.61e-05
## 678 8.09e-03 -8.09e-03 -6.40e-03 9.29e-05 -3.73e-05 -2.86e-04 3.11e-04
## 679 -4.35e-03 4.35e-03 -9.97e-04 9.01e-05 3.41e-04 2.24e-04 9.43e-04
## 680 8.99e-03 -9.01e-03 2.06e-04 9.71e-04 2.68e-05 -5.39e-04 -5.13e-04
## 681 6.92e-03 -7.21e-03 -2.03e-02 3.46e-03 2.10e-03 7.51e-04 -2.61e-03
## 682 9.26e-03 -9.26e-03 6.64e-03 -3.83e-04 -8.05e-04 -5.93e-04 -2.17e-03
## 683 -3.32e-03 3.33e-03 4.85e-03 -8.03e-05 -2.86e-04 1.07e-04 -1.23e-03
## 684 1.19e-02 -1.19e-02 -2.85e-03 -1.03e-05 -8.38e-04 -4.72e-04 -2.38e-03

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## 685  3.63e-03 -3.64e-03  2.68e-04 -1.02e-04 -2.16e-05 -2.18e-04  2.19e-04
## 686 -3.79e-04  3.81e-04  4.00e-04  6.65e-07 -4.66e-05  1.92e-05 -2.00e-04
## 687 -3.79e-04  3.81e-04  4.00e-04  6.65e-07 -4.66e-05  1.92e-05 -2.00e-04
## 688  7.60e-05 -8.00e-05 -7.59e-04  8.61e-06  1.22e-04 -4.48e-06  4.58e-04
## 689 -4.22e-04  4.29e-04  2.22e-03 -6.69e-04  5.37e-05  2.21e-05 -3.17e-05
## 690 -1.35e-03  1.35e-03  1.48e-04 -1.42e-04  5.67e-05  8.48e-05  3.87e-05
## 691  1.92e-02 -1.96e-02  1.93e-03  2.92e-03  2.24e-03 -3.87e-04 -3.16e-03
## 692 -2.09e-03  2.09e-03 -4.60e-03  1.91e-04  3.73e-04  1.89e-04  1.14e-03
## 693 -1.28e-02  1.28e-02 -3.82e-04  1.90e-03  6.75e-04  3.87e-04  4.29e-04
## 694 -1.04e-03  1.04e-03  5.07e-05  2.19e-04  1.86e-05  3.18e-05  8.61e-05
## 695  4.88e-03 -4.88e-03  7.50e-03 -1.48e-03 -4.72e-04 -4.21e-04  2.38e-05
## 696 -8.27e-04  8.30e-04 -5.03e-05  2.92e-05 -2.82e-05  5.52e-05 -1.78e-04
## 697  5.96e-04 -5.94e-04  6.04e-04 -4.74e-06 -4.85e-05 -5.41e-06 -2.59e-04
## 698  9.32e-04 -9.33e-04 -2.51e-04 -1.28e-05  1.47e-06 -4.80e-05  7.35e-05
## 699 -8.79e-03  8.78e-03 -2.91e-03 -1.36e-03  3.42e-04  1.22e-04  1.81e-04
## 700  6.83e-04 -6.84e-04  3.52e-05 -1.20e-03  3.31e-04 -2.05e-04 -3.91e-04
## 701 -7.42e-04  7.35e-04  1.54e-03  3.58e-04  1.38e-04 -2.44e-05  3.70e-05
## 702 -1.49e-04  1.52e-04  3.27e-03 -7.41e-04 -1.69e-04 -5.63e-05  1.29e-04
## 703  3.94e-04 -4.12e-04  6.48e-03 -3.38e-04  1.57e-04 -2.38e-04  8.44e-04
## 704 -2.27e-04  2.27e-04 -7.20e-04  5.09e-05 -2.49e-05  1.04e-02  1.12e-05
## 705  1.08e-02 -1.08e-02  8.52e-03 -3.36e-03 -1.63e-04 -5.16e-04 -8.09e-04
## 706 -8.91e-05  9.22e-05 -3.31e-04 -1.25e-04  1.47e-05  2.96e-05 -2.85e-05
## 707 -1.14e-03  1.14e-03  7.43e-04 -3.69e-05  5.62e-05  7.63e-06  2.51e-04
## 708 -1.72e-03  1.71e-03  4.26e-04 -3.08e-06  1.40e-04  6.40e-05  4.18e-04
## 709  3.11e-03 -3.08e-03 -6.47e-03 -1.50e-03 -5.77e-04  1.02e-04 -1.55e-04
## 710 -3.47e-03  3.49e-03 -1.36e-04  1.37e-04  3.94e-05  5.15e-04  1.46e-03
## 711  2.13e-02 -2.20e-02 -1.42e-02  3.85e-03  4.95e-03 -1.96e-03 -5.46e-03
## 712 -3.96e-03  3.67e-03  9.01e-03 -1.68e-03  2.53e-03 -5.83e-04  1.47e-03
## 713  5.61e-03 -4.35e-03 -3.23e-04 -7.03e-02 -1.13e-02 -4.27e-02 -7.04e-02
## 714  7.61e-05 -6.96e-05  1.53e-03 -3.60e-05 -4.68e-05  1.30e-04  7.39e-04
## 715  1.93e-04 -1.98e-04  9.55e-04 -3.98e-04  1.25e-06 -1.27e-04 -2.30e-05
## 716 -2.71e-04  2.68e-04  1.77e-04 -1.39e-05  2.16e-05 -4.74e-05 -2.09e-04
## 717  1.60e-04 -1.59e-04  9.43e-06 -1.07e-06 -8.14e-06  3.63e-06  4.19e-05
## 718 -2.22e-02  2.17e-02 -2.70e-02  4.86e-03  5.78e-03  8.53e-04 -3.23e-03
## 719 -6.22e-03  6.20e-03  6.52e-03 -1.92e-03  2.39e-04 -3.01e-04  2.67e-04
## 720  4.99e-03 -5.02e-03  3.26e-03 -2.45e-03 -1.11e-04 -9.23e-04 -3.86e-04
## 721 -8.38e-04  8.35e-04  2.48e-04 -6.23e-06  4.02e-05 -1.91e-05 -1.80e-04
## 722  1.28e-04 -1.25e-04 -8.60e-05  1.68e-05 -3.16e-05  1.78e-06 -2.03e-05
## 723 -2.63e-04  2.63e-04 -4.21e-05  2.83e-06  1.37e-05 -5.98e-06 -7.27e-05
## 724 -4.66e-04  4.64e-04 -2.09e-04  5.80e-06  3.08e-05 -3.40e-05 -2.40e-04
## 725  7.64e-05 -7.58e-05 -6.99e-05  5.54e-05 -3.85e-06  1.17e-05  2.41e-07
## 726  5.90e-04 -5.95e-04 -1.15e-03  1.39e-05  1.49e-05 -1.37e-04 -6.05e-04
## 727  6.24e-04 -6.21e-04 -9.76e-04  1.78e-04 -2.21e-04  8.53e-05  6.09e-04
## 728  1.24e-04 -1.23e-04 -2.05e-04  3.33e-05 -4.04e-05  1.57e-05  1.09e-04
## 729  9.82e-03 -1.02e-02 -1.02e-02  1.42e-03  4.41e-03 -6.23e-04 -4.25e-03
## 730 -9.71e-05  1.21e-04 -7.73e-03 -3.72e-04 -9.19e-05  3.60e-04 -9.66e-05
## 731 -7.98e-04  8.01e-04  1.29e-03 -3.75e-04 -6.97e-05  2.19e-05  9.37e-05
## 732 -5.46e-02  5.58e-02  3.45e-02  5.43e-03 -6.94e-03 -3.55e-04 -5.82e-03
## 733 -8.65e-04  8.89e-04 -2.06e-03 -9.83e-04  1.18e-04  2.23e-04 -2.00e-04
## 734  6.93e-04 -6.93e-04  6.49e-05 -1.15e-05 -4.71e-05 -3.43e-05 -1.25e-04
## 735 -2.15e-03  2.16e-03  1.45e-03 -9.08e-06 -9.61e-06  8.70e-05 -1.67e-04
## 736 -5.31e-03  5.33e-03  4.67e-03 -1.63e-03 -2.63e-04  2.23e-04  4.80e-04
## 737 -1.78e-03  1.78e-03  1.03e-03 -1.17e-04  1.41e-04 -6.67e-05  8.54e-04
## 738  1.64e-03 -1.66e-03  8.85e-04  5.77e-05 -1.37e-04 -1.93e-04  7.03e-04

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## 739 -1.13e-02 1.13e-02 -1.17e-02 3.39e-03 1.14e-03 8.06e-04 5.73e-05
## 740 6.33e-03 -6.32e-03 -1.24e-03 -2.28e-06 -5.23e-04 -2.44e-04 -1.56e-03
## 741 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 742 1.13e-02 -1.13e-02 1.05e-02 -7.66e-04 -4.51e-05 -9.62e-04 1.07e-03
## 743 2.29e-02 -2.36e-02 1.25e-03 2.92e-03 4.54e-03 -2.41e-03 -4.95e-03
## 744 8.54e-03 -8.57e-03 2.62e-07 -2.46e-04 -1.85e-04 -8.73e-04 -2.08e-03
## 745 -2.00e-02 2.00e-02 -7.61e-03 5.75e-03 2.09e-03 1.04e-03 3.71e-04
## 746 -1.82e-03 1.37e-03 2.64e-03 3.66e-03 3.25e-03 7.81e-04 -2.40e-03
## 747 -3.78e-03 3.79e-03 5.35e-03 -1.12e-04 4.38e-05 3.49e-04 1.50e-03
## 748 2.00e-02 -2.00e-02 -6.38e-03 -1.52e-04 -3.54e-04 -9.32e-04 4.69e-05
## 749 5.47e-03 -5.45e-03 -2.60e-03 2.08e-03 -2.32e-04 3.12e-04 -1.09e-04
## 750 -7.02e-05 6.99e-05 -1.70e-05 2.62e-05 9.13e-06 3.04e-06 9.99e-07
## 751 4.31e-04 -4.14e-04 -2.32e-03 1.49e-03 -4.76e-05 4.00e-04 6.78e-05
## 752 5.59e-05 -7.22e-05 1.08e-03 -1.53e-03 3.67e-05 -4.14e-04 -1.28e-04
## 753 -3.22e-03 3.23e-03 4.59e-03 -9.73e-05 3.78e-05 2.95e-04 1.27e-03
## 754 -1.18e-05 1.14e-05 -6.96e-05 1.35e-06 2.94e-06 -7.81e-06 -4.25e-05
## 755 1.70e-04 -1.70e-04 4.38e-05 -1.22e-04 2.91e-05 -2.68e-05 -4.25e-05
## 756 6.73e-04 -6.76e-04 2.83e-04 -2.18e-04 -1.75e-05 -9.29e-05 -4.49e-05
## 757 1.37e-03 -1.38e-03 2.25e-04 -1.10e-04 5.68e-05 -1.25e-04 -3.94e-04
## 758 -2.13e-03 2.20e-03 2.49e-03 2.92e-04 -4.65e-04 -9.68e-05 -4.05e-04
## 759 3.40e-04 -3.41e-04 1.85e-05 -1.31e-04 -7.85e-06 -5.02e-05 -2.82e-05
## 760 -2.82e-03 2.80e-03 2.98e-03 -1.91e-03 1.37e-04 -4.04e-04 1.58e-05
## 761 3.85e-03 -3.84e-03 -9.79e-04 2.41e-05 -3.95e-04 -1.28e-04 -1.25e-03
## 762 -1.24e-04 1.16e-04 1.78e-03 -1.76e-05 -3.77e-05 -8.15e-05 4.03e-04
## 763 3.94e-03 -3.94e-03 1.88e-03 -1.12e-04 -3.85e-04 -2.18e-04 -1.12e-03
## 764 -1.87e-03 1.86e-03 3.42e-03 -7.63e-04 7.22e-05 -1.63e-04 1.01e-04
## 765 2.40e-03 -2.40e-03 8.74e-04 -6.77e-05 -1.73e-04 -1.36e-04 -4.49e-04
## 766 2.17e-03 -2.17e-03 -1.25e-03 4.56e-06 -1.57e-05 -8.90e-05 7.56e-05
## 767 5.40e-03 -5.41e-03 -1.42e-03 -3.55e-04 2.64e-04 -4.43e-04 -1.72e-03
## 768 5.28e-03 -5.28e-03 -6.31e-04 -9.57e-05 -5.65e-05 -2.83e-04 1.88e-04
## 769 -1.12e-02 1.12e-02 -9.63e-03 5.32e-04 1.00e-03 7.60e-04 2.70e-03
## 770 1.06e-02 -1.06e-02 -4.37e-03 5.46e-05 -6.43e-04 -3.85e-04 -1.78e-03
## 771 5.45e-03 -4.79e-03 -4.10e-02 4.71e-03 -4.38e-03 -2.50e-04 -5.74e-03
## 772 -1.94e-02 1.94e-02 1.91e-02 3.87e-03 4.77e-04 1.60e-03 1.80e-03
## 773 -1.33e-02 1.33e-02 5.58e-03 -2.39e-03 4.93e-04 -6.76e-05 5.13e-04
## 774 -7.04e-03 7.06e-03 6.19e-03 -2.17e-03 -3.49e-04 2.95e-04 6.36e-04
## 775 -3.36e-03 3.37e-03 2.70e-03 1.46e-03 6.34e-05 4.90e-04 3.74e-04
## 776 -1.04e-03 1.04e-03 4.37e-03 -1.47e-04 -1.25e-05 9.24e-05 7.91e-04
## 777 -3.21e-03 3.21e-03 3.10e-03 -6.32e-04 -5.60e-05 1.09e-04 2.67e-04
## 778 7.91e-04 -1.08e-03 9.26e-03 1.89e-03 1.94e-03 1.68e-04 -1.41e-03
## 779 5.96e-03 -5.95e-03 -2.89e-03 -1.06e-03 -4.93e-04 -1.82e-04 -2.62e-04
## 780 -2.49e-04 2.62e-04 -9.51e-05 -7.04e-04 6.36e-05 9.34e-05 -1.17e-04
## 781 1.29e-03 -1.29e-03 -1.55e-03 9.80e-06 1.41e-04 -5.66e-05 6.05e-04
## 782 2.17e-02 -2.21e-02 -1.95e-02 4.22e-03 2.53e-03 1.64e-04 -4.02e-03
## 783 1.05e-03 -1.04e-03 3.35e-03 -1.37e-03 -2.26e-04 7.09e-05 1.50e-04
## 784 -1.84e-04 1.83e-04 3.82e-04 4.82e-05 4.69e-07 -7.78e-06 2.84e-05
## 785 -1.15e-02 1.15e-02 9.46e-03 2.65e-04 6.51e-05 5.04e-05 3.54e-03
## 786 2.40e-03 -2.38e-03 3.87e-03 -1.56e-03 1.54e-05 -9.25e-05 -2.62e-04
## 787 1.96e-03 -1.92e-03 -1.28e-03 -2.12e-03 1.03e-04 1.65e-04 -5.00e-04
## 788 -4.16e-03 4.13e-03 5.19e-03 5.66e-05 -6.46e-06 -5.82e-05 1.56e-03
## 789 -1.38e-03 1.37e-03 1.93e-04 4.71e-04 9.97e-06 1.83e-05 1.50e-04
## 790 -1.83e-04 1.81e-04 3.88e-04 -1.87e-05 2.84e-05 -5.47e-06 1.08e-04
## 791 4.83e-03 -4.87e-03 6.94e-03 -3.05e-03 -1.02e-04 -1.13e-03 -3.38e-04
## 792 8.16e-04 -8.15e-04 1.57e-03 -6.55e-05 -1.39e-04 -6.85e-05 -4.24e-04

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## 793  1.41e-03 -1.44e-03  1.05e-02 -2.39e-03 -1.73e-05 -8.55e-04 -1.96e-05
## 794  1.79e-02 -1.83e-02 -1.11e-02  3.73e-03  2.48e-03  9.16e-05 -3.53e-03
## 795 -4.92e-05  5.10e-05  3.22e-04 -1.84e-04 -4.71e-05  1.72e-06  2.34e-05
## 796 -1.88e-03  1.90e-03  1.50e-02 -2.72e-03  1.90e-04 -1.02e-04  6.46e-05
## 797 -6.61e-03  6.65e-03 -7.75e-03  2.82e-03  1.71e-04  1.17e-03  3.74e-04
## 798 -3.31e-04  3.35e-04 -3.17e-04  3.54e-05 -5.71e-06  1.02e-04  3.07e-04
## 799 -1.00e-03  1.00e-03  6.19e-04 -2.03e-05  4.53e-05 -2.30e-05 -1.72e-04
## 800 -1.33e-03  1.32e-03  5.74e-03 -2.75e-04  2.32e-04 -1.28e-04  9.74e-04
## 801  2.99e-03 -2.98e-03 -3.26e-03  9.04e-04 -1.14e-04  1.43e-04 -1.33e-04
## 802 -2.04e-03  2.04e-03  1.01e-03 -2.08e-05  8.21e-05  6.51e-06 -1.72e-04
## 803  1.43e-02 -1.50e-02  8.75e-03  3.28e-03  5.66e-03 -2.35e-03 -4.99e-03
## 804  2.26e-03 -2.28e-03  3.65e-03 -1.50e-03 -4.71e-05 -5.54e-04 -1.55e-04
## 805  5.13e-03 -5.16e-03  1.10e-03 -2.18e-04 -8.97e-05 -6.60e-04 -1.64e-03
## 806 -1.26e-03  1.25e-03 -1.60e-04  7.49e-07  7.81e-05 -8.55e-05 -5.69e-04
## 807 -1.04e-02  9.73e-03  3.41e-04  3.85e-03  6.04e-03 -7.04e-04 -3.68e-03
## 808  1.15e-02 -1.15e-02  5.79e-03 -2.70e-03 -2.21e-04 -5.33e-04 -8.05e-04
## 809  3.97e-03 -3.96e-03 -2.66e-03  9.12e-04 -1.49e-04  8.75e-05 -1.61e-04
## 810  2.59e-04 -2.46e-04 -1.63e-03  1.19e-03 -3.58e-05  3.19e-04  6.39e-05
## 811  7.39e-04 -7.45e-04 -3.21e-03  7.80e-05  2.52e-04  3.64e-06  9.41e-04
## 812 -1.74e-03  1.75e-03  1.11e-03 -2.97e-04  7.68e-05  9.15e-05  5.82e-05
## 813  9.53e-03 -9.51e-03 -4.15e-03  9.13e-05 -7.36e-04 -3.11e-04 -2.22e-03
## 814  1.10e-03 -1.10e-03  3.11e-03 -6.08e-04 -8.75e-06 -9.84e-05 -6.05e-05
## 815  1.36e-03 -1.36e-03  9.76e-04 -5.64e-05 -1.18e-04 -8.73e-05 -3.20e-04
## 816 -3.22e-03  3.21e-03  3.49e-03  5.11e-04  2.70e-04  4.24e-05  1.83e-04
## 817  3.13e-04 -3.24e-04  1.11e-03 -1.52e-04  6.42e-05 -1.69e-04  6.95e-04
## 818  7.55e-03 -7.55e-03 -4.70e-04 -2.74e-05 -3.26e-04 -2.65e-04 -1.06e-03
## 819 -8.76e-04  8.71e-04  3.99e-04  3.42e-04  7.59e-05  1.01e-04  2.45e-04
## 820  3.27e-02 -3.32e-02 -4.70e-02  5.48e-03  2.41e-03  4.03e-04 -5.32e-03
## 821 -1.44e-02  1.44e-02  1.18e-02 -1.36e-03  5.34e-04  5.46e-04  7.57e-04
## 822  2.73e-05 -2.72e-05 -8.37e-05  3.47e-06 -1.66e-06  1.10e-06 -6.87e-06
## 823  2.13e-03 -2.12e-03 -1.89e-03 -7.00e-04 -1.81e-04  7.90e-05 -6.71e-05
## 824  4.63e-03 -4.60e-03 -1.09e-02 -9.72e-04 -5.17e-04  1.32e-04 -3.58e-04
## 825  1.06e-05  7.36e-05  2.20e-04 -4.85e-03 -7.77e-04 -2.98e-03 -4.83e-03
## 826 -4.73e-03  4.72e-03  3.13e-03  6.84e-05  7.48e-05  8.81e-05  9.99e-04
## 827  1.01e-03 -1.01e-03 -3.86e-03  1.16e-05  9.16e-05 -1.27e-04  9.00e-04
## 828 -8.88e-03  8.91e-03  7.82e-03 -2.73e-03 -4.40e-04  3.72e-04  8.03e-04
## 829 -1.16e-02  1.15e-02 -1.30e-02  4.42e-03  1.42e-03  8.09e-04 -3.93e-05
## 830 -1.94e-03  1.93e-03  1.06e-05  2.38e-05  1.29e-04  9.08e-05  3.44e-04
## 831  1.17e-03 -1.17e-03  8.26e-04 -4.42e-05 -1.20e-04 -7.13e-05 -3.46e-04
## 832 -4.27e-03  4.27e-03  4.02e-03 -6.43e-05 -5.05e-05  1.45e-04 -4.17e-04
## 833 -4.27e-03  4.27e-03  4.02e-03 -6.43e-05 -5.05e-05  1.45e-04 -4.17e-04
## 834  3.93e-03 -3.94e-03  8.59e-04 -1.55e-04  7.22e-05 -2.69e-04  6.26e-04
## 835  2.22e-03 -2.21e-03 -2.78e-03  1.02e-04 -1.59e-04 -2.25e-05 -5.27e-04
## 836 -4.01e-03  3.99e-03  2.58e-03  1.67e-03  6.07e-04  5.72e-05  1.12e-04
## 837 -1.29e-02  1.34e-02  1.53e-03  4.81e-03 -6.29e-03 -1.04e-03 -1.32e-03
## 838 -9.12e-04  8.99e-04 -2.18e-03  1.08e-03 -3.97e-05  5.61e-06  1.64e-04
## 839 -9.98e-03  9.98e-03 -4.75e-02  8.41e-03  2.14e-03  1.58e-03 -1.10e-03
## 840 -5.70e-03  5.70e-03 -2.14e-03  1.53e-04  4.62e-04  3.15e-04  1.27e-03
## 841  1.76e-04 -1.85e-04 -1.76e-03  2.00e-05  2.83e-04 -1.04e-05  1.06e-03
## 842 -1.13e-03  1.14e-03 -7.78e-04 -4.91e-04  8.13e-05  1.41e-04 -6.14e-05
## 843 -9.06e-03  9.05e-03 -1.09e-02  2.48e-03  1.83e-04  5.94e-04  5.01e-04
## 844  2.79e-04 -2.78e-04 -2.63e-04  1.15e-05 -3.35e-05 -2.90e-06 -1.16e-04
## 845 -1.15e-04  1.22e-04 -1.69e-03 -2.37e-04 -8.12e-05  6.92e-05 -7.68e-06
## 846  5.36e-03 -5.33e-03 -5.44e-03 -1.72e-03 -6.90e-04 -3.98e-05 -2.28e-04

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## 847 -2.66e-03 2.65e-03 4.20e-03 -1.70e-04 2.30e-04 -5.00e-06 8.12e-04
## 848 9.46e-03 -9.45e-03 5.08e-03 -3.19e-04 -7.92e-04 -5.62e-04 -2.16e-03
## 849 -3.77e-03 3.78e-03 3.65e-03 -1.03e-03 1.89e-04 1.98e-04 9.61e-05
## 850 -2.68e-02 2.66e-02 6.40e-02 -1.64e-03 2.77e-04 -8.60e-04 7.13e-03
## 851 4.39e-02 -4.39e-02 -1.61e-02 4.08e-04 -1.74e-03 -2.19e-03 5.97e-04
## 852 2.27e-02 -2.28e-02 -1.54e-02 5.38e-05 -5.49e-04 -1.04e-03 7.47e-05
## 853 2.18e-03 -2.37e-03 2.40e-03 -1.08e-03 1.27e-03 1.70e-04 1.38e-03
## 854 2.94e-03 -3.25e-03 4.47e-03 2.64e-03 2.63e-03 7.09e-04 -1.74e-03
## 855 -6.65e-03 6.64e-03 1.59e-03 5.73e-06 4.67e-04 2.63e-04 1.33e-03
## 856 -4.83e-04 4.91e-04 2.54e-03 -7.66e-04 6.15e-05 2.53e-05 -3.63e-05
## 857 -2.21e-03 2.22e-03 2.08e-03 2.01e-05 -2.95e-04 1.23e-04 -1.26e-03
## 858 -9.89e-04 9.88e-04 -1.01e-03 5.02e-05 1.08e-04 6.79e-05 3.10e-04
## 859 -3.26e-03 3.24e-03 7.97e-04 -5.42e-05 5.12e-04 7.76e-05 1.75e-03
## 860 -1.74e-05 1.76e-05 -4.37e-05 2.64e-06 -9.44e-07 2.45e-06 -6.45e-06
## 861 2.76e-04 -2.68e-04 -1.97e-03 1.07e-04 -1.19e-04 6.16e-05 -5.03e-04
## 862 -2.34e-04 2.47e-04 -8.95e-05 -6.63e-04 5.98e-05 8.79e-05 -1.10e-04
## 863 7.17e-03 -7.15e-03 -5.62e-03 -1.49e-03 -6.76e-04 -1.43e-04 -3.39e-04
## 864 2.53e-03 -1.99e-03 -2.44e-03 -3.09e-02 -4.89e-03 -1.90e-02 -3.11e-02
## 865 2.16e-03 -2.16e-03 -1.32e-03 -7.35e-05 5.86e-06 -1.94e-04 5.28e-04
## 866 3.60e-03 -3.58e-03 -2.47e-03 -8.89e-04 -4.14e-05 -1.96e-05 -3.92e-04
## 867 5.56e-04 -5.55e-04 -2.42e-04 5.33e-06 -4.30e-05 -1.81e-05 -1.30e-04
## 868 -4.96e-04 4.96e-04 -3.56e-04 2.05e-05 4.31e-05 3.18e-05 1.17e-04
## 869 8.21e-04 -8.32e-04 1.04e-04 -1.34e-04 6.39e-05 -1.90e-04 7.75e-04
## 870 1.08e-03 -1.09e-03 2.17e-03 -1.33e-04 3.08e-05 -1.32e-04 2.75e-04
## 871 -1.39e-03 1.40e-03 1.49e-04 -5.49e-04 -1.14e-04 9.71e-05 1.15e-04
## 872 -8.29e-04 8.28e-04 -4.73e-05 3.79e-05 1.51e-05 3.31e-05 1.55e-04
## 873 1.82e-03 -1.83e-03 3.65e-03 -2.24e-04 5.19e-05 -2.21e-04 4.63e-04
## 874 -1.10e-02 1.11e-02 8.98e-05 -1.95e-03 -2.42e-04 6.88e-04 6.98e-04
## 875 9.17e-03 -9.15e-03 -4.00e-03 8.79e-05 -7.08e-04 -2.99e-04 -2.14e-03
## 876 6.34e-03 -6.33e-03 -4.64e-03 1.60e-04 -5.57e-04 -1.41e-04 -1.80e-03
## 877 -4.40e-04 4.36e-04 2.16e-04 2.00e-04 -1.53e-06 -4.68e-06 6.15e-05
## 878 -7.40e-03 7.41e-03 7.08e-03 -1.17e-04 -8.50e-05 2.48e-04 -7.10e-04
## 879 5.83e-05 -5.95e-05 3.95e-04 1.76e-05 2.87e-06 -2.11e-05 2.45e-06
## 880 1.01e-02 -1.01e-02 3.86e-03 -3.28e-03 -1.18e-04 -3.31e-04 -9.07e-04
## 881 -3.39e-03 3.41e-03 7.63e-03 -1.69e-03 2.04e-04 1.16e-04 8.49e-05
## 882 -7.71e-06 1.28e-05 2.95e-03 -2.37e-04 5.83e-05 -1.94e-05 -5.39e-04
## 883 3.49e-03 -3.48e-03 1.29e-03 -6.48e-05 -4.25e-04 -1.67e-04 -1.33e-03
## 884 8.31e-04 -8.42e-04 3.30e-04 7.74e-05 -9.58e-05 -1.21e-04 6.05e-04
## 885 -8.16e-03 8.10e-03 1.92e-02 1.79e-03 9.34e-04 -2.34e-04 6.22e-04
## 886 3.46e-03 -3.48e-03 -3.71e-04 1.37e-03 2.84e-04 -2.41e-04 -2.86e-04
## 887 2.84e-04 -2.83e-04 -3.62e-04 -7.29e-05 -3.22e-05 -7.61e-07 -1.50e-05
## 888 -9.91e-04 1.00e-03 4.03e-03 -1.39e-03 -3.21e-04 -2.63e-06 2.37e-04
## 889 -3.99e-03 3.99e-03 3.18e-03 -8.21e-04 -8.70e-05 1.58e-04 3.22e-04
## 890 1.38e-02 -1.38e-02 2.68e-03 -2.66e-04 -1.08e-03 -7.01e-04 -2.98e-03
## 891 6.20e-03 -6.20e-03 3.23e-03 -2.05e-04 -5.18e-04 -3.66e-04 -1.41e-03
## 892 -7.58e-04 7.72e-04 -2.57e-03 -5.97e-04 -1.74e-04 1.48e-04 3.58e-05
## 893 6.60e-04 -6.71e-04 -9.50e-04 1.61e-04 -1.01e-04 -8.88e-05 7.13e-04
## 894 4.92e-03 -4.96e-03 5.07e-03 -8.29e-05 -3.25e-04 -5.55e-04 1.30e-03
## 895 2.27e-03 -2.28e-03 4.96e-04 -8.95e-05 4.17e-05 -1.56e-04 3.62e-04
## 896 2.70e-03 -2.70e-03 4.03e-06 -1.43e-04 -3.27e-05 -8.74e-05 -6.60e-04
## 897 4.33e-04 -4.26e-04 1.03e-03 -5.12e-04 1.88e-05 -2.66e-06 -7.79e-05
## 898 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 899 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 900 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04

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## 901 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 902 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 903 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 904 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 905 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 906 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 907 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 908 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 909 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 910 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 911 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 912 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 913 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 914 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 915 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 916 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 917 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 918 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 919 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 920 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 921 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 922 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 923 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 924 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 925 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 926 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 927 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 928 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 929 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 930 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 931 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 932 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 933 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 934 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 935 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 936 -3.12e-02 3.07e-02 9.68e-03 -2.14e-03 5.12e-03 4.67e-04 3.54e-03
## 937 -7.57e-03 7.55e-03 9.31e-04 -2.00e-03 3.06e-04 -1.64e-04 1.66e-04
## 938 4.12e-03 -4.12e-03 -5.88e-04 -9.98e-06 -1.85e-04 1.51e-05 6.56e-04
## 939 -5.68e-02 5.61e-02 -9.52e-03 -1.86e-03 7.95e-03 1.93e-03 5.18e-03
## 940 3.67e-03 -4.19e-03 5.91e-03 -2.75e-03 4.17e-03 -1.32e-03 1.89e-03
## 941 2.99e-03 -2.99e-03 -2.79e-03 9.85e-05 -1.27e-04 6.89e-05 3.85e-04
## 942 2.32e-03 -2.33e-03 1.48e-03 -1.48e-04 -3.72e-05 -3.49e-04 -8.10e-04
## 943 1.25e-02 -1.31e-02 5.59e-03 2.79e-03 4.68e-03 -1.94e-03 -4.21e-03
## 944 -7.23e-04 7.27e-04 -4.15e-04 4.38e-05 1.18e-05 1.07e-04 2.49e-04
## 945 -5.29e-04 5.26e-04 -1.01e-04 1.58e-06 3.32e-05 -3.65e-05 -2.46e-04
## 946 -1.22e-02 1.23e-02 -1.93e-02 5.90e-03 3.14e-04 2.43e-03 6.25e-04
## 947 -6.44e-04 6.50e-04 -1.23e-04 4.05e-05 -5.11e-06 1.53e-04 4.88e-04
## 948 2.93e-04 -3.05e-04 -1.45e-05 -5.26e-05 4.66e-05 -2.59e-04 -9.84e-04
## 949 -2.37e-03 2.35e-03 2.58e-03 -1.58e-03 1.14e-04 -3.33e-04 1.84e-05
## 950 -4.95e-03 4.94e-03 -6.35e-04 6.75e-05 2.31e-04 -7.67e-06 -9.29e-04
## 951 1.25e-04 -1.26e-04 1.34e-04 -1.42e-05 2.33e-06 -3.96e-05 -1.19e-04
## 952 1.65e-03 -1.66e-03 1.18e-03 -1.42e-03 -2.01e-05 -4.64e-04 -1.87e-04
## 953 -1.63e-02 1.57e-02 -3.71e-03 3.87e-03 5.81e-03 -1.82e-04 -3.18e-03
## 954 -7.62e-03 7.61e-03 6.31e-03 -1.68e-03 2.80e-04 -1.69e-04 3.49e-04

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## 955 -1.37e-02 1.31e-02 9.10e-03 -3.24e-03 5.95e-03 -7.59e-04 3.33e-03
## 956 4.76e-04 -4.89e-04 -1.47e-03 6.96e-04 1.19e-04 2.20e-04 9.40e-04
## 957 2.58e-03 -2.57e-03 1.77e-03 -8.01e-05 -3.39e-04 -1.42e-04 -1.05e-03
## 958 -5.49e-03 5.46e-03 1.49e-03 2.37e-03 5.02e-04 6.98e-04 1.61e-03
## 959 2.46e-04 -2.64e-04 4.88e-03 3.33e-04 -6.20e-05 -2.12e-04 1.99e-04
## 960 -8.27e-03 8.86e-03 -2.74e-02 4.03e-03 -3.49e-03 2.14e-04 -4.29e-03
## 961 9.26e-04 -9.29e-04 3.58e-04 -4.06e-05 1.64e-06 -6.52e-05 9.27e-05
## 962 7.45e-03 -7.45e-03 3.28e-03 -2.34e-04 -5.44e-04 -4.36e-04 -1.41e-03
## 963 -2.87e-04 2.98e-04 1.88e-03 -1.08e-03 -2.75e-04 1.00e-05 1.37e-04
## 964 -6.24e-02 6.41e-02 -1.19e-01 1.40e-02 -8.41e-03 3.87e-03 -1.11e-02
## 965 6.36e-03 -6.35e-03 2.42e-03 -1.83e-03 -6.64e-04 -3.29e-04 -1.18e-04
## 966 2.31e-03 -2.27e-03 -1.11e-02 -1.41e-03 -5.78e-04 2.83e-04 -2.12e-04
## 967 -4.44e-03 4.45e-03 2.82e-04 -5.51e-04 1.94e-04 2.95e-04 1.06e-04
## 968 7.45e-03 -7.45e-03 3.28e-03 -2.34e-04 -5.44e-04 -4.36e-04 -1.41e-03
## 969 6.86e-02 -6.73e-02 -5.31e-02 7.35e-03 -1.13e-02 -4.52e-03 -1.41e-02
## 970 -9.12e-03 9.44e-03 -2.71e-03 -2.33e-03 -1.93e-03 2.74e-05 2.16e-03
## 971 8.32e-03 -8.36e-03 5.45e-03 -1.08e-04 -4.73e-04 -7.81e-04 1.49e-03
## 972 -5.65e-04 5.80e-04 3.12e-03 -1.57e-03 -3.93e-04 1.10e-05 2.13e-04
## 973 -6.25e-03 6.23e-03 -7.05e-03 2.39e-03 7.69e-04 4.37e-04 -2.12e-05
## 974 3.33e-03 -3.32e-03 3.34e-04 -4.21e-05 -2.97e-04 -1.53e-04 -8.74e-04
## 975 -4.29e-03 4.29e-03 -8.01e-03 1.67e-03 5.04e-04 3.96e-04 -7.74e-05
## 976 -7.49e-03 7.47e-03 -3.86e-02 8.79e-03 2.27e-03 1.16e-03 -1.08e-03
## 977 -2.89e-03 2.89e-03 -6.82e-03 1.56e-03 4.45e-04 2.89e-04 -1.14e-04
## 978 -2.31e-04 2.31e-04 -8.80e-05 6.65e-05 2.42e-05 1.20e-05 4.29e-06
## 979 1.37e-04 -1.31e-04 3.41e-04 1.32e-05 -1.63e-04 1.12e-05 -6.13e-04
## 980 -4.65e-03 4.63e-03 -4.10e-03 2.22e-03 7.09e-04 2.69e-04 -2.95e-05
## 981 -6.71e-04 6.69e-04 8.24e-04 9.07e-05 5.28e-05 6.64e-06 4.13e-05
## 982 -1.52e-03 1.51e-03 3.17e-03 7.36e-04 2.83e-04 -5.01e-05 7.61e-05
## 983 -6.99e-03 6.96e-03 7.83e-03 -3.33e-04 7.74e-04 4.85e-05 2.69e-03
## 984 -3.92e-05 3.70e-05 -5.68e-05 1.46e-04 2.35e-05 -2.29e-05 -1.42e-05
## 985 -2.31e-03 2.33e-03 1.82e-03 -1.73e-03 -4.03e-04 1.53e-04 2.87e-04
## 986 6.18e-04 -6.41e-04 -4.04e-03 2.32e-03 5.91e-04 -2.16e-05 -2.93e-04
## 987 -1.63e-02 1.60e-02 4.80e-04 -1.03e-02 2.84e-03 -1.33e-03 -4.48e-03
## 988 -9.18e-03 9.19e-03 1.83e-02 -3.13e-03 -4.33e-04 8.75e-05 1.05e-03
## 989 -1.16e-01 1.17e-01 1.19e-01 -1.53e-02 -6.81e-03 2.95e-04 1.65e-02
## 990 -7.92e-04 7.96e-04 3.07e-03 -8.31e-05 -1.89e-04 -8.00e-06 -7.03e-04
## 991 -8.60e-04 8.53e-04 1.67e-03 -1.41e-07 -1.21e-05 -3.84e-05 4.26e-04
## 992 7.10e-04 -7.09e-04 1.24e-03 -3.28e-04 -9.86e-05 -6.06e-05 1.54e-05
## 993 1.37e-03 -1.38e-03 2.14e-04 3.53e-04 6.36e-05 -9.76e-05 -9.12e-05
## 994 -1.18e-03 1.18e-03 -8.11e-04 3.68e-05 1.56e-04 6.52e-05 4.84e-04
## 995 5.92e-04 -5.90e-04 7.43e-05 -4.12e-05 -3.20e-06 -1.71e-05 -1.82e-04
## 996 4.61e-03 -4.62e-03 -2.42e-03 1.53e-04 -2.29e-04 -2.58e-04 5.02e-04
## 997 5.84e-04 -5.83e-04 4.26e-05 4.21e-06 -3.34e-05 -1.01e-05 -1.51e-04
## 998 -4.68e-03 4.56e-03 1.70e-04 -1.12e-03 1.89e-03 6.80e-04 7.36e-04
## 999 2.99e-02 -2.99e-02 -6.71e-03 -3.46e-04 -5.90e-04 -1.47e-03 -7.59e-05
## 1000 -1.72e-03 1.72e-03 -3.82e-04 3.05e-05 1.58e-04 8.42e-05 4.64e-04
## 1001 -8.88e-03 8.91e-03 7.82e-03 -2.73e-03 -4.40e-04 3.72e-04 8.03e-04
## 1002 -1.16e-02 1.15e-02 -1.30e-02 4.42e-03 1.42e-03 8.09e-04 -3.93e-05
## 1003 -6.75e-03 6.75e-03 -7.86e-03 1.81e-03 6.12e-04 5.17e-04 3.43e-05
## 1004 8.09e-03 -8.09e-03 -6.40e-03 9.29e-05 -3.73e-05 -2.86e-04 3.11e-04
## 1005 -3.27e-03 3.26e-03 -2.24e-03 1.02e-04 4.30e-04 1.80e-04 1.34e-03
## 1006 -3.07e-03 3.06e-03 -2.70e-03 1.47e-03 4.68e-04 1.77e-04 -1.95e-05
## 1007 -1.94e-03 1.93e-03 1.06e-05 2.38e-05 1.29e-04 9.08e-05 3.44e-04
## 1008 3.34e-03 -3.35e-03 -2.36e-03 1.57e-04 -1.76e-04 -1.80e-04 4.55e-04

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## 1009  1.17e-03 -1.17e-03  8.26e-04 -4.42e-05 -1.20e-04 -7.13e-05 -3.46e-04
## 1010 -4.27e-03  4.27e-03  4.02e-03 -6.43e-05 -5.05e-05  1.45e-04 -4.17e-04
## 1011 -2.88e-03  2.91e-03 -1.71e-03 -1.37e-03 -3.22e-04  2.74e-04  2.18e-04
## 1012 -5.07e-03  5.10e-03  1.09e-02 -2.94e-03  3.40e-04  2.34e-04  3.95e-05
## 1013 -1.46e-03  1.45e-03 -4.64e-03  1.52e-04  4.95e-04  1.31e-04  1.66e-03
## 1014  3.60e-03 -3.59e-03  6.13e-04 -6.55e-05 -2.78e-04 -1.80e-04 -7.72e-04
## 1015 -4.27e-03  4.27e-03  4.02e-03 -6.43e-05 -5.05e-05  1.45e-04 -4.17e-04
## 1016 -1.17e-02  1.16e-02  8.33e-03 -2.25e-04  7.21e-04  3.19e-04  2.12e-03
## 1017  1.19e-03 -1.20e-03 -9.58e-04  1.16e-04 -9.68e-05 -9.52e-05  4.81e-04
## 1018 -3.50e-03  3.50e-03  4.78e-04  1.82e-05  2.52e-04  1.48e-04  7.12e-04
## 1019  2.04e-03 -2.04e-03 -4.66e-04  5.26e-04 -8.14e-05  4.44e-05 -5.21e-05
## 1020 -1.95e-02  1.95e-02  4.43e-02  3.66e-03 -1.03e-03  5.32e-04  3.54e-03
## 1021 -4.71e-03  4.72e-03 -1.37e-02 -1.38e-03  2.43e-04  1.03e-04 -3.00e-04
## 1022 -1.04e-02  1.19e-02 -6.67e-02  9.84e-03 -1.13e-02  5.08e-03 -6.31e-03
## 1023 -7.90e-04  7.76e-04  4.96e-04 -7.37e-05  1.44e-04  1.43e-06  1.02e-04
## 1024 -7.28e-02  7.51e-02 -3.05e-02  1.30e-02 -1.58e-02  8.81e-03 -5.44e-03
## 1025  7.92e-03 -8.13e-03 -6.21e-03  3.12e-03  1.73e-03 -3.59e-05 -7.31e-04
## 1026 -1.55e-02  1.55e-02  7.16e-03 -2.54e-03 -2.11e-04  7.41e-04  1.10e-03
## 1027  1.61e-03 -8.22e-04 -3.64e-02  5.21e-03 -5.20e-03 -4.23e-04 -6.45e-03
## 1028  1.49e-02 -1.55e-02 -2.48e-03  2.98e-03  4.41e-03 -1.79e-03 -4.36e-03
## 1029  7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05  7.64e-06  1.83e-06  2.97e-05
## 1030  1.28e-02 -1.34e-02  4.99e-03  2.83e-03  4.69e-03 -1.94e-03 -4.26e-03
## 1031  5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 1032  3.65e-03 -3.28e-03  2.26e-03  5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 1033 -1.11e-03  1.10e-03 -2.75e-04  5.59e-06  7.04e-05 -7.74e-05 -5.27e-04
## 1034 -6.04e-03  5.91e-03  1.24e-03 -5.51e-04  1.29e-03  4.21e-05  8.03e-04
## 1035  1.73e-03 -1.72e-03 -1.53e-03  2.18e-04 -1.25e-04 -5.90e-05 -3.83e-04
## 1036  1.06e-02 -1.10e-02 -2.30e-03  5.11e-03  3.10e-03 -1.37e-04 -9.29e-04
## 1037 -8.18e-03  8.15e-03  6.99e-03 -2.72e-03  3.25e-04 -4.20e-04  2.88e-04
## 1038 -1.74e-03  1.73e-03  2.54e-03 -3.67e-04  1.63e-04  3.72e-05  5.58e-04
## 1039  2.50e-03 -2.47e-03 -4.56e-03 -1.81e-03 -6.25e-04  9.18e-05 -6.46e-05
## 1040 -1.06e-03  1.06e-03  1.30e-03 -5.44e-05  1.12e-04  5.33e-06  3.91e-04
## 1041  1.74e-02 -1.75e-02 -5.55e-03  4.61e-03  4.08e-04  7.33e-04  6.37e-03
## 1042 -2.20e-03  2.19e-03  4.18e-03  1.88e-04  1.15e-04 -6.46e-05  1.65e-04
## 1043 -6.71e-03  6.92e-03  1.93e-02  3.92e-04 -1.48e-03 -6.28e-04 -1.00e-03
## 1044  4.64e-05 -3.85e-05  8.10e-04 -5.37e-04  3.54e-05  2.88e-05 -7.23e-05
## 1045 -4.31e-04  4.29e-04 -1.12e-04  1.78e-04  1.77e-06  8.22e-06  4.70e-05
## 1046  7.57e-03 -7.57e-03  1.74e-03 -1.57e-04 -5.94e-04 -3.90e-04 -1.64e-03
## 1047 -1.38e-03  1.36e-03  1.77e-03  9.82e-04 -3.85e-05 -8.99e-05  2.89e-04
## 1048  6.38e-05 -6.23e-05  4.02e-04 -1.39e-04  6.25e-06 -1.85e-06 -1.50e-05
## 1049 -1.07e-02  1.04e-02 -2.66e-02 -2.01e-03  5.37e-03  2.57e-03  1.36e-03
## 1050  4.46e-03 -4.45e-03  6.22e-04 -6.37e-05 -4.01e-04 -2.09e-04 -1.18e-03
## 1051  9.70e-04 -1.00e-03  1.51e-02 -7.46e-04  1.40e-04 -5.17e-04  1.10e-03
## 1052 -1.79e-02  1.80e-02  2.27e-03 -1.18e-03  1.87e-04  9.56e-04  1.01e-03
## 1053  2.48e-04 -2.44e-04 -2.34e-04  2.51e-05 -1.04e-04  1.08e-05 -3.94e-04
## 1054  3.58e-03 -3.55e-03 -5.76e-03 -1.12e-03 -2.89e-04 -2.80e-04 -1.05e-03
## 1055 -7.66e-03  7.68e-03  2.46e-03 -1.38e-03  3.57e-04  4.90e-04  1.68e-04
## 1056 -1.01e-02  1.01e-02  1.12e-02  1.75e-03  1.50e-04 -6.61e-06  1.10e-03
## 1057  9.37e-03 -9.36e-03  1.06e-02 -2.34e-03 -5.91e-04 -4.87e-04 -2.73e-05
## 1058  6.36e-03 -6.43e-03 -6.58e-03 -1.10e-04  4.78e-04  1.11e-04  1.31e-04
## 1059 -1.37e-02  1.37e-02  1.24e-02 -2.75e-03 -2.62e-04  4.94e-04  1.13e-03
## 1060  8.55e-04 -8.61e-04  1.43e-03 -4.23e-04 -2.19e-05 -1.74e-04 -4.26e-05
## 1061 -2.78e-02  2.79e-02  5.53e-03  5.29e-04  6.14e-04  2.58e-03  6.48e-03
## 1062 -2.00e-04  2.01e-04 -1.04e-04  1.17e-05 -8.86e-06  1.64e-05 -5.39e-05

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## 1063 3.00e-03 -3.39e-03 2.43e-02 -2.88e-03 2.34e-03 -1.96e-04 3.06e-03
## 1064 8.33e-03 -8.32e-03 -3.43e-03 4.28e-05 -5.05e-04 -3.02e-04 -1.39e-03
## 1065 -2.73e-04 2.71e-04 -4.02e-03 7.44e-04 1.74e-04 1.02e-04 -1.23e-04
## 1066 -4.71e-02 4.81e-02 2.02e-03 -7.06e-03 -5.17e-03 8.46e-04 7.63e-03
## 1067 1.04e-03 -1.05e-03 1.32e-03 -4.56e-04 -2.68e-05 -1.89e-04 -5.74e-05
## 1068 8.71e-04 -1.19e-03 -4.31e-03 3.31e-03 2.94e-03 1.15e-03 -1.98e-03
## 1069 -7.33e-03 7.34e-03 2.77e-03 7.52e-05 1.64e-04 6.20e-04 1.64e-03
## 1070 3.61e-03 -3.60e-03 -2.64e-03 9.10e-05 -3.17e-04 -8.03e-05 -1.02e-03
## 1071 5.24e-04 -5.26e-04 6.01e-05 -1.48e-04 -1.37e-05 -6.41e-05 -3.71e-05
## 1072 -7.83e-03 7.84e-03 4.20e-03 1.97e-05 1.78e-04 6.04e-04 1.69e-03
## 1073 -7.26e-03 7.26e-03 -2.75e-03 4.58e-04 1.25e-04 3.43e-04 1.42e-03
## 1074 -3.47e-04 3.46e-04 -2.38e-04 1.08e-05 4.56e-05 1.91e-05 1.42e-04
## 1075 3.84e-03 -3.86e-03 4.96e-03 -3.34e-04 3.94e-05 -3.76e-04 6.20e-04
## 1076 -9.15e-03 9.14e-03 -7.51e-03 2.53e-03 8.85e-04 6.01e-04 1.01e-04
## 1077 6.85e-04 -6.88e-04 -2.33e-03 5.24e-04 1.04e-04 8.83e-06 -1.20e-04
## 1078 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 1079 -3.48e-03 3.63e-03 1.66e-02 1.11e-04 -1.35e-03 3.13e-05 -9.66e-05
## 1080 5.63e-03 -5.63e-03 -1.67e-03 -1.85e-04 3.10e-05 -3.46e-04 -9.99e-04
## 1081 1.46e-03 -1.30e-03 1.01e-02 3.47e-04 -1.56e-03 -3.23e-05 -5.07e-04
## 1082 -4.55e-04 8.52e-04 1.88e-02 -3.18e-03 -3.65e-03 2.82e-04 3.11e-03
## 1083 6.44e-03 -6.45e-03 7.70e-04 1.29e-04 -6.15e-04 -1.85e-04 1.02e-03
## 1084 -2.18e-03 2.19e-03 -3.32e-03 1.03e-03 5.60e-05 4.26e-04 1.13e-04
## 1085 1.32e-03 -1.33e-03 6.38e-05 -7.21e-05 8.17e-06 -2.96e-04 -9.55e-04
## 1086 1.66e-02 -1.66e-02 -1.37e-02 1.36e-03 -5.47e-04 -2.22e-04 -9.89e-04
## 1087 2.65e-03 -2.69e-03 9.97e-03 -2.76e-03 -4.67e-05 -1.00e-03 -1.28e-04
## 1088 -5.44e-05 5.45e-05 3.64e-05 -9.60e-08 1.11e-06 4.48e-06 1.39e-05
## 1089 2.61e-03 -1.35e-03 3.97e-04 5.94e-03 -1.08e-02 2.24e-03 -4.92e-03
## 1090 6.51e-03 -6.54e-03 1.83e-03 -2.77e-04 -1.37e-04 -7.51e-04 -1.67e-03
## 1091 -1.64e-04 1.68e-04 -1.12e-03 2.60e-04 2.16e-06 9.34e-05 3.20e-06
## 1092 -5.89e-03 5.90e-03 2.89e-03 4.22e-05 1.17e-04 5.40e-04 1.58e-03
## 1093 -1.04e-04 1.03e-04 1.67e-04 -5.03e-05 4.30e-06 -1.07e-05 4.19e-06
## 1094 1.08e-02 -1.12e-02 -1.52e-02 -1.63e-03 3.47e-03 -9.84e-04 8.38e-04
## 1095 1.36e-03 -1.32e-03 -5.37e-03 3.23e-04 -1.57e-04 6.19e-04 1.96e-03
## 1096 -4.35e-03 4.36e-03 -9.18e-04 1.84e-04 7.60e-05 5.58e-04 1.38e-03
## 1097 -1.33e-03 1.35e-03 -3.63e-03 1.14e-03 2.55e-05 4.18e-04 7.72e-05
## 1098 8.96e-04 -8.91e-04 1.22e-03 -3.61e-05 -2.17e-04 -4.93e-05 -7.35e-04
## 1099 4.17e-04 -4.08e-04 4.25e-03 -1.32e-03 -3.36e-04 -8.90e-05 1.67e-04
## 1100 1.06e-04 -1.04e-04 -6.76e-04 -1.20e-04 -4.39e-05 2.07e-05 -8.48e-06
## 1101 -1.27e-02 1.27e-02 1.95e-03 -7.38e-04 1.63e-04 6.60e-04 7.16e-04
## 1102 -6.30e-04 6.11e-04 8.08e-03 4.89e-05 -2.80e-05 -2.40e-04 2.85e-04
## 1103 -1.75e-03 1.77e-03 1.24e-03 -1.22e-03 -1.29e-04 2.80e-04 2.35e-04
## 1104 -2.55e-03 2.57e-03 -2.80e-03 1.06e-03 6.59e-05 4.42e-04 1.47e-04
## 1105 -2.69e-03 2.67e-03 3.28e-03 -1.37e-04 2.83e-04 1.34e-05 9.86e-04
## 1106 -1.28e-03 1.27e-03 -1.44e-03 2.63e-04 -6.22e-05 1.94e-06 1.04e-03
## 1107 -8.31e-04 8.40e-04 3.38e-03 -1.17e-03 -2.69e-04 -2.21e-06 1.99e-04
## 1108 2.78e-02 -2.73e-02 -2.22e-02 2.98e-03 -4.52e-03 -1.80e-03 -5.69e-03
## 1109 7.59e-03 -7.62e-03 -1.10e-03 1.83e-03 2.93e-04 -4.64e-04 -5.39e-04
## 1110 9.54e-03 -9.51e-03 -1.48e-02 5.52e-04 -5.96e-04 -2.98e-05 -2.01e-03
## 1111 3.60e-03 -3.61e-03 -1.90e-03 -8.36e-05 -3.33e-05 -2.65e-04 5.11e-04
## 1112 -1.58e-03 1.58e-03 -3.45e-04 6.21e-05 -2.90e-05 1.08e-04 -2.51e-04
## 1113 -3.93e-03 3.93e-03 -9.28e-03 2.12e-03 6.06e-04 3.94e-04 -1.55e-04
## 1114 6.85e-03 -6.81e-03 -1.32e-02 -6.17e-04 -1.13e-04 1.30e-04 -8.18e-04
## 1115 2.19e-03 -2.20e-03 2.56e-03 4.56e-04 9.49e-05 -2.18e-04 -9.46e-05
## 1116 5.04e-03 -5.33e-03 1.12e-02 -1.91e-03 1.71e-03 -8.53e-05 2.04e-03

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## 1117 4.31e-03 -4.34e-03 8.34e-03 9.18e-05 -4.98e-06 -4.92e-04 -5.86e-05
## 1118 1.18e-03 -1.17e-03 1.17e-03 -9.76e-04 -2.94e-04 -5.22e-05 4.30e-05
## 1119 -2.41e-03 2.40e-03 2.71e-04 -1.50e-06 2.58e-04 8.82e-05 8.15e-04
## 1120 -4.85e-03 4.83e-03 9.51e-03 3.97e-04 3.46e-04 -4.85e-05 3.87e-04
## 1121 4.01e-04 -4.04e-04 -1.54e-03 4.63e-06 3.65e-05 -5.07e-05 3.59e-04
## 1122 -9.30e-03 9.31e-03 5.48e-03 -7.55e-04 1.03e-04 3.71e-04 6.20e-04
## 1123 1.35e-03 -1.35e-03 9.15e-04 -5.36e-05 -1.16e-04 -8.50e-05 -3.14e-04
## 1124 1.12e-03 -1.13e-03 -5.11e-04 1.08e-04 -1.02e-04 -1.11e-04 5.59e-04
## 1125 -7.41e-03 7.44e-03 2.98e-04 -1.83e-03 -3.06e-04 4.79e-04 5.15e-04
## 1126 -4.18e-02 4.14e-02 9.26e-03 -1.64e-03 4.31e-03 2.73e-03 5.31e-03
## 1127 4.06e-02 -4.06e-02 -2.35e-02 7.24e-04 -1.56e-03 -1.75e-03 9.95e-05
## 1128 -2.56e-03 2.59e-03 5.31e-04 -1.56e-03 2.06e-04 2.94e-04 -1.48e-04
## 1129 1.57e-03 -1.56e-03 -3.49e-03 -5.52e-04 -2.36e-04 4.84e-05 -9.93e-05
## 1130 7.08e-03 -7.32e-03 -7.18e-02 -1.19e-04 4.62e-03 2.84e-03 -5.91e-04
## 1131 9.33e-04 -9.30e-04 8.61e-05 -5.41e-05 -1.08e-05 -3.19e-05 -2.32e-04
## 1132 1.24e-03 -1.24e-03 -7.94e-04 7.43e-05 -7.79e-05 -8.16e-05 2.87e-04
## 1133 5.84e-03 -5.83e-03 -2.02e-03 3.41e-05 -4.63e-04 -2.04e-04 -1.39e-03
## 1134 -1.97e-03 1.98e-03 7.09e-03 -1.89e-03 -4.02e-04 -1.92e-05 3.84e-04
## 1135 -3.25e-02 3.22e-02 -6.24e-03 2.72e-03 5.26e-03 2.89e-03 -1.94e-03
## 1136 -4.87e-04 4.60e-04 -1.73e-03 1.72e-03 -1.06e-04 -1.02e-04 2.72e-04
## 1137 3.27e-04 -3.26e-04 -1.83e-04 -7.36e-05 -2.21e-05 1.91e-06 -1.18e-05
## 1138 -2.25e-03 2.26e-03 1.09e-03 -7.92e-04 -1.49e-04 1.26e-04 1.94e-04
## 1139 -2.75e-05 2.42e-04 -1.20e-04 -1.23e-02 -1.97e-03 -7.52e-03 -1.23e-02
## 1140 -3.85e-03 3.82e-03 3.72e-03 1.28e-03 4.04e-04 5.38e-04 2.42e-03
## 1141 -2.75e-05 2.42e-04 -1.20e-04 -1.23e-02 -1.97e-03 -7.52e-03 -1.23e-02
## 1142 7.80e-03 -7.73e-03 -8.43e-03 -4.03e-03 -8.34e-04 -9.97e-04 -2.97e-03
## 1143 7.57e-03 -7.60e-03 -1.15e-03 -1.83e-04 -1.42e-04 -8.28e-04 -2.21e-03
## 1144 2.52e-03 -2.51e-03 -7.40e-05 -2.99e-05 -1.01e-04 -5.45e-05 1.85e-04
## 1145 -1.87e-03 1.88e-03 6.48e-03 -1.56e-03 -3.19e-04 -2.19e-05 3.40e-04
## 1146 -1.46e-03 1.46e-03 1.53e-03 4.42e-05 -8.23e-06 -1.85e-05 6.06e-04
## 1147 4.13e-03 -4.15e-03 2.45e-03 -1.43e-03 -1.07e-04 -6.08e-04 -2.66e-04
## 1148 1.06e-02 -1.06e-02 -2.19e-03 -1.97e-04 -2.33e-04 -9.77e-04 -2.46e-03
## 1149 2.10e-02 -2.15e-02 -8.62e-03 2.59e-03 3.36e-03 -1.75e-03 -4.16e-03
## 1150 -3.32e-03 3.34e-03 1.40e-04 1.17e-04 3.93e-05 4.76e-04 1.37e-03
## 1151 -1.43e-03 1.44e-03 -4.36e-04 7.62e-05 1.40e-05 2.36e-04 6.46e-04
## 1152 -1.35e-03 1.35e-03 4.11e-04 -2.07e-05 7.68e-05 -8.28e-05 -4.96e-04
## 1153 -1.90e-03 1.89e-03 3.48e-03 -7.69e-04 7.30e-05 -1.64e-04 1.04e-04
## 1154 -6.84e-03 6.82e-03 2.75e-03 -1.69e-03 2.66e-04 -1.49e-04 2.14e-04
## 1155 2.01e-03 -2.03e-03 2.16e-04 -1.17e-04 1.39e-05 -4.62e-04 -1.48e-03
## 1156 1.27e-03 -1.28e-03 6.01e-04 -1.01e-03 -1.68e-05 -3.31e-04 -1.44e-04
## 1157 8.91e-04 -4.54e-04 -2.01e-02 2.88e-03 -2.87e-03 -2.34e-04 -3.56e-03
## 1158 -5.64e-05 5.55e-05 -1.74e-04 -1.20e-04 5.79e-06 -2.51e-05 -1.43e-05
## 1159 -2.16e-03 2.16e-03 3.46e-04 1.57e-04 -1.12e-04 1.86e-04 7.06e-04
## 1160 1.36e-03 -1.34e-03 -5.03e-03 2.86e-04 -1.32e-04 4.97e-04 1.52e-03
## 1161 -3.11e-03 3.10e-03 1.36e-03 -4.07e-05 1.45e-04 -7.10e-05 -6.08e-04
## 1162 5.00e-03 -5.00e-03 9.30e-05 -1.49e-03 2.51e-04 -4.66e-04 -6.58e-04
## 1163 1.60e-02 -1.60e-02 -4.22e-03 -1.68e-04 -2.55e-04 -7.75e-04 1.75e-04
## 1164 8.57e-03 -8.59e-03 -4.50e-03 2.85e-04 -4.26e-04 -4.79e-04 9.33e-04
## 1165 -1.18e-03 1.19e-03 -1.60e-03 -3.81e-04 -9.14e-05 1.31e-04 5.78e-05
## 1166 -7.18e-04 7.51e-04 6.15e-03 -2.52e-03 1.84e-04 1.08e-04 -2.25e-04
## 1167 9.49e-04 -9.26e-04 5.98e-03 -2.06e-03 9.29e-05 -2.75e-05 -2.23e-04
## 1168 5.93e-03 -5.87e-03 2.69e-03 -4.54e-03 -8.01e-04 -1.22e-03 -2.65e-03
## 1169 1.71e-02 -1.71e-02 -4.08e-03 2.38e-04 -7.92e-04 -1.03e-03 1.33e-03
## 1170 -1.43e-02 1.42e-02 6.75e-03 4.06e-03 1.40e-04 1.22e-04 1.56e-03

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## 1171  4.79e-03 -4.78e-03  3.07e-03 -1.53e-03 -5.31e-04 -2.78e-04 -5.22e-05
## 1172  1.38e-02 -1.38e-02 -5.37e-03 -7.46e-05 -1.71e-04 -6.28e-04  2.84e-04
## 1173 -4.44e-03  4.42e-03  5.68e-03  5.64e-04  3.41e-04  3.88e-05  2.80e-04
## 1174  8.81e-03 -8.84e-03 -3.62e-04  9.85e-05 -4.47e-04 -6.13e-04  1.05e-03
## 1175  2.29e-03 -2.31e-03  4.22e-03 -5.78e-05 -1.96e-04 -3.51e-04  1.03e-03
## 1176 -1.51e-03  1.51e-03  2.69e-03 -6.78e-05 -8.49e-05  2.66e-05 -3.69e-04
## 1177  2.30e-03 -2.30e-03  2.23e-03 -1.12e-04 -2.49e-04 -1.55e-04 -7.14e-04
## 1178  1.82e-04 -1.82e-04  1.29e-04 -5.88e-06 -9.10e-06 -8.91e-06 -3.06e-05
## 1179  1.31e-03 -1.31e-03  7.70e-04 -4.70e-05 -1.11e-04 -7.94e-05 -3.01e-04
## 1180 -2.76e-03  2.79e-03 -6.68e-03 -1.05e-03 -2.89e-04  4.04e-04  9.10e-05
## 1181 -3.08e-03  3.12e-03 -7.47e-03 -1.17e-03 -3.23e-04  4.52e-04  1.02e-04
## 1182 -4.18e-04  4.10e-04  4.71e-04 -9.61e-05  7.95e-05 -9.62e-05  6.24e-04
## 1183  1.64e-03 -1.66e-03  8.85e-04  5.77e-05 -1.37e-04 -1.93e-04  7.03e-04
## 1184  1.80e-04 -1.81e-04 -3.69e-04  3.15e-05 -1.64e-05 -1.03e-05  8.95e-05
## 1185  3.00e-02 -3.00e-02 -1.91e-02  4.24e-03 -1.32e-04  2.13e-04  4.31e-03
## 1186  2.69e-03 -2.68e-03  2.79e-03 -7.82e-04 -4.80e-05 -1.56e-04 -1.71e-04
## 1187 -8.82e-03  8.85e-03  7.67e-03 -2.73e-03 -4.41e-04  3.73e-04  7.97e-04
## 1188 -7.92e-03  7.95e-03  6.67e-03 -1.63e-03  3.62e-04  3.92e-04  2.64e-04
## 1189 -2.88e-03  2.91e-03 -1.71e-03 -1.37e-03 -3.22e-04  2.74e-04  2.18e-04
## 1190  5.32e-04 -5.12e-04  3.21e-04 -1.61e-03 -4.63e-04  3.92e-05  1.09e-04
## 1191 -1.74e-03  1.75e-03 -1.03e-03 -8.23e-04 -1.94e-04  1.65e-04  1.31e-04
## 1192 -3.23e-03  3.23e-03 -3.14e-03  1.58e-04  3.50e-04  2.18e-04  1.00e-03
## 1193  2.03e-03 -2.02e-03  2.38e-03 -2.72e-04  5.51e-06 -9.81e-05 -7.72e-04
## 1194 -2.60e-03  2.61e-03  2.12e-03 -7.49e-04  1.36e-04  1.54e-04  4.71e-05
## 1195  1.75e-03 -1.74e-03  1.69e-03 -8.51e-05 -1.89e-04 -1.18e-04 -5.42e-04
## 1196 -6.69e-03  6.69e-03 -2.37e-03  1.94e-04  4.40e-04  3.84e-04  1.09e-03
## 1197 -9.70e-04  9.68e-04  1.90e-04  3.50e-07  8.01e-05  3.74e-05  2.39e-04
## 1198  1.75e-03 -1.74e-03  1.69e-03 -8.51e-05 -1.89e-04 -1.18e-04 -5.42e-04
## 1199  2.99e-05 -3.06e-05 -1.79e-04  3.22e-06  2.14e-05 -4.14e-07  7.99e-05
## 1200  9.52e-03 -9.47e-03 -5.93e-03 -2.46e-03 -1.05e-04 -6.04e-05 -1.04e-03
## 1201  1.20e-02 -1.25e-02  8.07e-03  3.30e-03  2.91e-03 -7.60e-05 -3.04e-03
## 1202  2.97e-04 -2.94e-04  3.32e-04 -6.07e-05  1.44e-05 -4.48e-07 -2.41e-04
## 1203 -4.10e-02  4.09e-02  4.04e-02  7.18e-03  3.58e-03  6.34e-04  2.20e-03
## 1204  1.40e-03 -1.38e-03  1.38e-03 -1.16e-03 -3.49e-04 -6.18e-05  5.08e-05
## 1205 -3.16e-03  3.14e-03  2.68e-03  1.15e-03  4.39e-04  3.32e-05  1.13e-04
## 1206 -2.05e-03  2.05e-03 -9.64e-04  1.86e-04  5.63e-06  7.25e-05  6.81e-04
## 1207 -6.27e-04  6.18e-04  7.40e-04  6.48e-05 -3.48e-05 -4.12e-05  5.54e-04
## 1208 -2.73e-03  2.74e-03  1.83e-03 -5.89e-04  1.29e-04  1.54e-04  7.19e-05
## 1209  2.04e-03 -2.06e-03 -7.29e-04  1.10e-04 -1.39e-04 -1.60e-04  5.70e-04
## 1210  2.75e-04 -2.81e-04 -1.47e-03 -3.03e-05  6.82e-05 -8.95e-05  6.13e-04
## 1211 -1.37e-03  1.38e-03  1.23e-02 -2.32e-03 -4.83e-04 -1.91e-04  4.89e-04
## 1212  7.39e-04 -7.27e-04  3.54e-03 -3.70e-04  8.95e-05 -1.89e-05 -1.10e-03
## 1213 -1.90e-03  1.90e-03  1.01e-03  4.72e-04  1.96e-04  4.89e-05  7.45e-05
## 1214 -4.76e-03  4.77e-03  2.62e-03  2.15e-05 -9.75e-05  2.22e-04 -6.83e-04
## 1215  5.67e-03 -5.72e-03 -2.16e-02  6.57e-03  1.46e-03  3.72e-05 -1.22e-03
## 1216  3.12e-04 -3.10e-04 -3.08e-04 -1.15e-04 -2.68e-05 -3.15e-05 -9.13e-05
## 1217  2.13e-04 -2.10e-04  7.26e-04 -3.06e-04 -8.42e-05 -1.89e-05  2.81e-05
## 1218 -4.45e-03  4.44e-03 -1.32e-02  2.74e-03  7.52e-04  5.11e-04 -2.55e-04
## 1219 -2.03e-05  2.01e-05 -3.65e-06  2.62e-06 -6.06e-07 -9.43e-08  1.30e-05
## 1220  2.22e-02 -2.26e-02 -3.13e-03  3.29e-03  2.32e-03 -3.64e-04 -3.55e-03
## 1221 -1.42e-03  1.41e-03  6.46e-04 -3.62e-05  7.29e-05  1.36e-05  3.26e-04
## 1222 -7.06e-04  7.09e-04 -4.30e-05  2.49e-05 -2.41e-05  4.72e-05 -1.52e-04
## 1223 -6.20e-03  6.22e-03  4.55e-03 -2.01e-03 -3.45e-04  2.93e-04  5.51e-04
## 1224 -1.94e-03  1.94e-03  1.07e-03  8.76e-06 -3.97e-05  9.06e-05 -2.78e-04

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## 1225 -1.02e-03 1.02e-03 -3.89e-04 2.94e-04 1.07e-04 5.29e-05 1.90e-05
## 1226 3.58e-03 -3.56e-03 6.43e-03 -2.10e-03 -4.01e-04 -4.87e-05 1.57e-04
## 1227 -1.08e-02 1.08e-02 -5.93e-03 -1.72e-03 4.31e-04 1.80e-04 1.55e-04
## 1228 9.77e-03 -9.76e-03 -1.47e-02 -2.23e-03 5.19e-04 -4.86e-04 -1.62e-03
## 1229 -1.68e-04 1.68e-04 1.17e-04 -1.05e-05 1.71e-05 3.27e-07 -2.77e-05
## 1230 -2.80e-03 2.81e-03 2.34e-03 -1.76e-05 4.59e-05 2.61e-04 9.00e-04
## 1231 -1.08e-02 1.08e-02 -2.14e-03 -8.96e-04 3.96e-04 3.27e-04 3.42e-04
## 1232 1.48e-03 -1.46e-03 4.72e-03 -1.92e-03 -3.18e-04 9.98e-05 2.11e-04
## 1233 2.07e-03 -2.07e-03 -1.33e-03 -1.16e-05 9.88e-05 -1.01e-04 5.10e-04
## 1234 1.51e-04 -1.66e-04 2.46e-03 -1.68e-04 2.59e-04 -1.26e-04 1.10e-03
## 1235 3.91e-03 -3.91e-03 3.54e-04 -4.79e-05 -3.48e-04 -1.79e-04 -1.03e-03
## 1236 1.96e-03 -1.94e-03 7.49e-04 -1.33e-03 3.06e-05 1.09e-05 -2.98e-04
## 1237 2.86e-03 -2.86e-03 1.64e-03 -9.96e-05 -1.33e-04 -4.60e-05 5.08e-04
## 1238 1.65e-03 -1.65e-03 6.16e-04 -4.64e-05 -7.16e-05 -3.69e-05 2.07e-04
## 1239 6.51e-04 -6.51e-04 -1.22e-02 -1.23e-03 5.36e-05 -1.42e-04 -4.87e-04
## 1240 2.14e-03 -2.13e-03 -1.13e-03 5.72e-05 -3.03e-04 -3.91e-05 -1.04e-03
## 1241 1.74e-03 -1.74e-03 1.19e-03 -5.42e-05 -2.29e-04 -9.61e-05 -7.13e-04
## 1242 1.08e-03 -1.11e-03 -5.75e-04 -2.81e-03 4.32e-05 -7.64e-04 -3.51e-04
## 1243 -2.32e-03 2.32e-03 8.28e-03 -2.91e-04 1.03e-05 9.67e-05 1.13e-03
## 1244 -1.82e-01 1.82e-01 5.92e-01 -2.31e-02 4.37e-03 -5.49e-03 2.86e-02
## 1245 -2.31e-03 2.30e-03 -5.73e-03 -1.72e-03 1.45e-04 -2.35e-04 -2.27e-04
## 1246 3.49e-03 -3.49e-03 -1.07e-03 -4.76e-05 3.55e-05 -1.81e-04 3.87e-04
## 1247 2.95e-03 -2.96e-03 -2.55e-03 1.91e-04 -1.74e-04 -1.66e-04 5.76e-04
## 1248 5.35e-03 -5.36e-03 -2.81e-03 1.78e-04 -2.66e-04 -2.99e-04 5.83e-04
## 1249 1.74e-03 -1.74e-03 1.87e-03 -2.00e-04 -1.06e-05 -9.50e-05 -5.19e-04
## 1250 -3.03e-04 2.95e-04 -4.60e-03 1.34e-03 3.36e-04 9.25e-05 -1.81e-04
## 1251 1.50e-03 -1.50e-03 5.69e-04 -9.49e-05 -2.59e-05 -7.11e-05 -2.94e-04
## 1252 -3.20e-03 3.21e-03 7.54e-04 -4.95e-04 2.35e-05 2.46e-04 2.23e-04
## 1253 -3.65e-03 3.68e-03 -4.93e-03 -1.17e-03 -2.82e-04 4.04e-04 1.78e-04
## 1254 -1.39e-02 1.38e-02 4.24e-02 2.73e-04 9.10e-04 -5.63e-04 1.47e-03
## 1255 -1.04e-02 1.04e-02 4.81e-03 -1.71e-03 -1.41e-04 4.97e-04 7.37e-04
## 1256 -2.52e-03 2.56e-03 -1.62e-03 -1.97e-03 2.49e-04 4.07e-04 -2.89e-04
## 1257 4.93e-03 -4.95e-03 3.40e-05 1.32e-04 -3.05e-04 -4.04e-04 1.11e-03
## 1258 4.83e-04 -4.60e-04 -8.91e-03 -3.62e-04 -2.10e-04 2.64e-04 -1.65e-04
## 1259 6.65e-03 -6.64e-03 -1.31e-03 -2.40e-06 -5.49e-04 -2.57e-04 -1.64e-03
## 1260 4.92e-03 -4.94e-03 9.87e-04 4.88e-05 -2.82e-04 -4.06e-04 8.94e-04
## 1261 -2.79e-02 2.79e-02 2.58e-02 -2.97e-03 2.10e-04 8.63e-04 2.10e-03
## 1262 4.49e-04 -4.48e-04 7.02e-04 -2.96e-05 -7.12e-05 -3.39e-05 -2.19e-04
## 1263 2.60e-03 -2.60e-03 -8.73e-04 -2.22e-05 -2.36e-05 -1.24e-04 9.19e-05
## 1264 1.12e-04 -1.66e-04 3.14e-03 3.96e-04 -3.48e-04 -4.30e-04 3.24e-03
## 1265 -1.84e-03 1.86e-03 -5.58e-03 -7.60e-04 -2.22e-04 3.07e-04 4.42e-05
## 1266 -6.98e-03 7.01e-03 3.92e-03 -2.40e-03 -4.40e-04 3.73e-04 6.08e-04
## 1267 3.99e-03 -3.95e-03 -7.29e-03 -1.60e-03 2.75e-05 1.97e-04 -6.83e-04
## 1268 -3.83e-03 3.84e-03 -7.50e-04 1.59e-04 6.71e-05 4.88e-04 1.21e-03
## 1269 4.15e-03 -4.15e-03 -2.45e-03 5.94e-05 -1.65e-04 -8.36e-06 3.15e-04
## 1270 3.40e-05 -4.06e-05 1.64e-03 -4.89e-04 6.70e-06 -1.55e-04 -6.09e-06
## 1271 1.41e-03 -1.42e-03 -2.83e-04 -5.70e-05 4.48e-06 -2.85e-04 -9.44e-04
## 1272 -4.26e-04 4.25e-04 -2.00e-04 1.32e-05 3.52e-05 2.46e-05 9.60e-05
## 1273 4.71e-04 -4.65e-04 -5.62e-05 1.79e-05 -4.42e-05 1.01e-04 4.73e-04
## 1274 2.42e-02 -2.48e-02 2.50e-03 1.19e-03 6.47e-03 -1.96e-03 -6.58e-03
## 1275 -2.74e-03 2.75e-03 -3.24e-04 2.52e-04 -1.67e-04 2.70e-04 9.62e-04
## 1276 5.04e-03 -5.03e-03 -2.42e-03 2.94e-04 -5.52e-04 -2.37e-05 9.80e-04
## 1277 -7.87e-04 7.80e-04 2.61e-04 -7.32e-04 4.57e-05 -1.54e-04 -3.14e-05
## 1278 -6.06e-04 5.94e-04 -2.46e-03 -1.49e-03 7.00e-05 -3.13e-04 -1.92e-04

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## 1279  1.83e-03 -1.84e-03 -3.59e-03 -1.48e-03 -8.17e-06 -4.08e-04 -3.32e-04
## 1280  6.56e-03 -6.57e-03  2.87e-03 -3.18e-03  6.52e-04 -8.46e-04 -1.14e-03
## 1281  8.68e-03 -9.19e-03 -7.79e-03  3.05e-03  4.17e-03 -1.21e-03 -3.85e-03
## 1282  8.09e-03 -8.07e-03 -2.61e-02 -6.65e-04 -1.64e-04 -1.23e-04 -1.15e-03
## 1283 -1.40e-02  1.39e-02 -3.50e-04  3.38e-03  1.33e-03  6.01e-04  4.05e-04
## 1284  4.87e-03 -4.88e-03 -8.87e-04 -7.40e-05 -5.41e-05 -2.52e-04  1.57e-04
## 1285  2.09e-02 -2.09e-02 -1.20e-03  3.33e-05 -9.24e-04 -1.31e-03  1.21e-03
## 1286  4.32e-03 -4.29e-03 -4.17e-03 -1.44e-03 -5.68e-04 -3.58e-05 -1.75e-04
## 1287 -2.81e-03  2.79e-03  1.09e-03  1.35e-03  4.68e-04  5.33e-05  5.00e-05
## 1288  1.67e-04 -1.66e-04 -1.83e-04 -5.06e-05 -8.23e-07  2.37e-06 -2.20e-05
## 1289  5.69e-02 -5.63e-02 -4.34e-02  3.56e-03 -5.69e-03 -2.81e-03 -7.82e-03
## 1290 -2.11e-03  2.11e-03  4.31e-04  6.38e-04  2.42e-04  7.02e-05  6.04e-05
## 1291 -1.34e-02  1.42e-02  2.16e-04  4.27e-03 -5.42e-03 -8.31e-04 -5.58e-03
## 1292  1.11e-02 -1.11e-02  3.95e-03 -3.22e-04 -7.29e-04 -6.37e-04 -1.81e-03
## 1293  4.31e-03 -4.28e-03 -4.72e-03 -1.30e-03 -2.12e-05  6.11e-05 -5.66e-04
## 1294  1.77e-03 -1.78e-03 -3.98e-03 -8.08e-04 -2.35e-05 -2.26e-04 -2.72e-04
## 1295  1.03e-03 -1.03e-03 -4.17e-04 -3.36e-04  6.72e-05 -9.04e-05 -1.60e-04
## 1296  4.72e-03 -4.71e-03 -1.21e-03 -9.75e-04 -4.17e-04 -1.71e-04 -1.76e-04
## 1297  4.46e-03 -4.46e-03  7.36e-03 -2.61e-04 -2.92e-04 -2.43e-04 -1.19e-03
## 1298 -4.96e-03  4.96e-03  1.00e-02 -1.51e-03 -3.58e-05  1.93e-04  5.82e-04
## 1299 -1.98e-04  1.76e-04  2.49e-04  9.46e-04  2.03e-04  3.08e-04  1.50e-03
## 1300  9.19e-03 -9.30e-03  3.93e-02 -1.38e-03 -7.50e-04 -1.96e-03  3.87e-03
## 1301 -1.05e-04  1.07e-04 -6.78e-05 -8.23e-05  1.04e-05  1.70e-05 -1.20e-05
## 1302  6.79e-03 -6.83e-03  5.70e-03 -1.32e-04 -3.97e-04 -6.82e-04  1.32e-03
## 1303  8.99e-04 -8.97e-04 -2.31e-04 -1.86e-04 -7.94e-05 -3.25e-05 -3.34e-05
## 1304 -1.16e-02  1.22e-02 -4.08e-02  4.57e-03 -3.16e-03  8.23e-04 -4.23e-03
## 1305  4.64e-03 -4.66e-03 -1.21e-03  1.60e-04 -2.71e-04 -3.32e-04  8.88e-04
## 1306 -1.88e-03  1.88e-03 -7.19e-04  6.10e-04  2.19e-05  6.15e-05  1.69e-04
## 1307  1.99e-03 -1.98e-03 -4.57e-03  2.05e-04 -2.36e-04  5.60e-05 -9.01e-04
## 1308  1.21e-02 -1.21e-02 -7.50e-03  3.36e-04 -5.25e-04 -5.70e-04  5.91e-04
## 1309  2.74e-03 -2.72e-03 -2.30e-03 -1.00e-03 -3.79e-06  3.47e-05 -3.69e-04
## 1310  2.71e-04 -2.25e-04  4.74e-03 -3.14e-03  2.07e-04  1.69e-04 -4.23e-04
## 1311  3.48e-03 -3.45e-03  8.16e-05 -2.04e-03  3.70e-05  2.66e-05 -5.12e-04
## 1312 -1.39e-02  1.39e-02  2.83e-03  4.20e-03  1.59e-03  4.62e-04  3.98e-04
## 1313 -2.00e-03  2.02e-03  2.86e-02 -4.25e-03  2.35e-04 -3.81e-04  2.17e-04
## 1314  3.25e-03 -3.28e-03  1.41e-02  3.75e-04  1.65e-04 -6.24e-04  8.10e-05
## 1315  8.18e-04 -8.15e-04 -1.07e-04 -1.61e-04 -5.79e-05 -8.84e-05 -2.76e-04
## 1316 -7.69e-04  7.72e-04 -8.09e-05 -1.49e-04  3.85e-05  6.13e-05  4.87e-06
## 1317  8.85e-04 -8.83e-04 -1.78e-04 -3.63e-05 -1.17e-05 -2.49e-05 -2.07e-04
## 1318  1.47e-03 -1.46e-03 -2.39e-03 -7.67e-04  2.20e-05  8.17e-05 -2.74e-04
## 1319  1.56e-03 -1.56e-03  2.01e-03 -1.35e-04  1.59e-05 -1.52e-04  2.51e-04
## 1320  2.68e-03 -2.68e-03 -1.98e-03  1.28e-04 -1.40e-04 -1.41e-04  3.54e-04
## 1321 -1.19e-02  1.20e-02 -5.27e-03 -1.30e-03 -9.08e-05  8.67e-04  5.86e-04
## 1322  2.95e-03 -2.96e-03 -3.22e-04  8.85e-05 -1.78e-04 -2.28e-04  6.19e-04
## 1323  1.30e-03 -1.30e-03 -9.13e-04  2.78e-04 -6.11e-05 -7.14e-05 -3.60e-05
## 1324 -2.91e-02  2.87e-02 -7.40e-04 -2.99e-03  6.15e-03  2.87e-03  2.88e-03
## 1325 -2.60e-03  2.60e-03 -9.02e-04  7.45e-05  1.71e-04  1.49e-04  4.25e-04
## 1326 -2.53e-02  2.53e-02 -9.62e-03  7.27e-03  2.64e-03  1.31e-03  4.69e-04
## 1327 -9.71e-03  9.74e-03  3.21e-03 -1.41e-03  4.26e-04  5.82e-04  2.75e-04
## 1328  6.87e-03 -6.88e-03  3.63e-04 -1.80e-04 -6.60e-05 -4.04e-04  3.12e-04
## 1329  3.41e-04 -3.26e-04 -1.69e-03 -6.49e-04  4.81e-05  1.08e-04 -1.82e-04
## 1330  5.90e-03 -5.91e-03  3.12e-04 -1.55e-04 -5.67e-05 -3.47e-04  2.68e-04
## 1331  9.82e-03 -1.00e-02 -2.52e-03 -1.91e-03  2.34e-03  2.18e-04  2.59e-04
## 1332 -5.49e-03  5.48e-03 -9.09e-04  1.13e-03  4.59e-04  2.69e-04  1.60e-04

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## 1333 -1.71e-03 1.72e-03 6.05e-03 -1.53e-03 -3.19e-04 -1.85e-05 3.23e-04
## 1334 -1.01e-03 1.01e-03 2.12e-03 -3.11e-04 -3.71e-05 4.92e-06 1.15e-04
## 1335 -2.48e-02 2.44e-02 -7.16e-03 4.46e-03 4.29e-03 2.77e-03 -1.14e-03
## 1336 -1.53e-04 1.52e-04 -5.23e-04 2.21e-04 6.07e-05 1.36e-05 -2.02e-05
## 1337 -1.33e-03 1.33e-03 -2.95e-04 2.36e-05 1.22e-04 6.52e-05 3.59e-04
## 1338 -1.61e-03 1.62e-03 -9.54e-04 -7.62e-04 -1.80e-04 1.53e-04 1.22e-04
## 1339 3.13e-04 -3.24e-04 1.11e-03 -1.52e-04 6.42e-05 -1.69e-04 6.95e-04
## 1340 7.85e-03 -7.85e-03 -1.07e-03 -4.09e-05 -5.65e-04 -3.31e-04 -1.60e-03
## 1341 6.41e-04 -6.36e-04 9.53e-04 -6.11e-04 -1.79e-04 -3.42e-05 3.59e-05
## 1342 -1.06e-03 1.06e-03 1.30e-03 -5.44e-05 1.12e-04 5.33e-06 3.91e-04
## 1343 1.93e-03 -1.93e-03 -1.01e-03 3.25e-05 -8.04e-05 -4.37e-05 -2.83e-04
## 1344 -4.64e-05 4.36e-05 2.96e-04 1.42e-05 -1.58e-05 -2.25e-05 1.66e-04
## 1345 1.85e-03 -1.85e-03 4.49e-04 -6.93e-04 -2.41e-04 -8.03e-05 -2.64e-05
## 1346 6.44e-04 -6.52e-04 3.19e-05 6.08e-05 -6.79e-05 -8.13e-05 4.08e-04
## 1347 -2.29e-03 2.32e-03 4.75e-04 -1.40e-03 1.85e-04 2.63e-04 -1.32e-04
## 1348 -2.11e-04 2.08e-04 2.72e-04 1.51e-04 -5.91e-06 -1.38e-05 4.43e-05
## 1349 -6.99e-05 5.81e-05 -1.22e-03 8.11e-04 -5.33e-05 -4.35e-05 1.09e-04
## 1350 -1.06e-03 1.05e-03 8.13e-04 5.52e-05 -1.17e-05 -1.15e-05 4.90e-04
## 1351 2.39e-02 -2.39e-02 -1.11e-02 -6.47e-06 -4.88e-04 -9.99e-04 -3.09e-04
## 1352 1.58e-02 -1.64e-02 4.70e-03 4.04e-03 3.35e-03 -4.76e-05 -3.74e-03
## 1353 2.77e-03 -2.77e-03 2.33e-03 -9.59e-04 -3.21e-04 -1.75e-04 -1.39e-05
## 1354 2.58e-03 -2.57e-03 2.01e-03 -6.81e-04 -4.77e-05 -1.35e-04 -1.72e-04
## 1355 -1.21e-02 1.21e-02 -4.23e-03 6.72e-04 2.56e-04 6.11e-04 1.93e-03
## 1356 1.36e-05 -1.36e-05 2.36e-06 -6.39e-07 2.13e-07 -2.05e-04 -9.21e-07
## 1357 -1.76e-03 1.80e-03 2.26e-03 -2.38e-03 2.32e-04 2.81e-04 -2.75e-04
## 1358 -1.52e-02 1.52e-02 2.46e-02 -3.41e-03 -2.77e-04 2.31e-04 1.49e-03
## 1359 4.82e-03 -4.82e-03 -1.97e-03 1.60e-05 -1.77e-04 -1.02e-04 1.15e-04
## 1360 4.14e-04 -4.14e-04 3.87e-04 -2.16e-05 -1.92e-05 -1.27e-05 6.97e-05
## 1361 -8.62e-04 8.38e-04 5.48e-03 9.75e-04 3.56e-04 -1.68e-04 6.87e-05
## 1362 -6.25e-04 6.18e-04 9.75e-04 3.22e-05 -2.17e-05 -3.45e-05 4.31e-04
## 1363 -2.55e-02 2.55e-02 -1.25e-02 4.86e-03 1.46e-03 1.00e-03 5.30e-04
## 1364 1.62e-02 -1.62e-02 -2.25e-03 1.15e-04 -7.30e-04 -9.93e-04 1.08e-03
## 1365 3.46e-03 -3.47e-03 -1.25e-03 1.28e-04 -1.98e-04 -2.33e-04 6.19e-04
## 1366 1.46e-02 -1.46e-02 -2.54e-03 3.21e-04 -7.79e-04 -1.00e-03 2.10e-03
## 1367 4.72e-04 -4.68e-04 -2.31e-04 -2.15e-04 1.64e-06 5.02e-06 -6.59e-05
## 1368 6.81e-04 -6.74e-04 -1.41e-03 -3.29e-04 -1.26e-04 2.24e-05 -3.40e-05
## 1369 -2.30e-04 2.06e-04 7.69e-03 -4.90e-04 1.08e-04 -3.90e-04 1.22e-03
## 1370 -3.35e-03 3.30e-03 1.16e-02 -5.88e-05 -1.66e-04 -4.02e-04 2.79e-03
## 1371 -7.01e-04 7.39e-04 -2.68e-04 -1.98e-03 1.79e-04 2.63e-04 -3.29e-04
## 1372 1.71e-02 -1.71e-02 -9.86e-03 -1.50e-03 -4.20e-04 -4.54e-04 -1.32e-03
## 1373 -6.51e-03 6.52e-03 8.23e-03 -1.72e-03 -2.17e-04 1.83e-04 6.14e-04
## 1374 3.43e-03 -3.42e-03 -9.72e-05 -9.30e-06 -3.75e-04 -1.32e-04 -1.18e-03
## 1375 -9.41e-04 9.40e-04 -1.06e-03 3.60e-04 1.16e-04 6.59e-05 -3.20e-06
## 1376 6.04e-04 -6.02e-04 -5.32e-04 -1.29e-04 -7.86e-06 -1.60e-06 -6.58e-05
## 1377 1.28e-03 -1.27e-03 -5.04e-03 -4.02e-04 -2.02e-04 1.04e-04 -1.27e-04
## 1378 -4.25e-03 4.23e-03 1.55e-03 9.37e-04 6.53e-05 8.09e-05 4.00e-04
## 1379 2.62e-02 -2.66e-02 4.78e-03 2.80e-03 2.13e-03 -8.09e-04 -3.52e-03
## 1380 -1.83e-04 1.82e-04 -9.33e-05 2.93e-06 1.01e-05 6.22e-06 4.11e-05
## 1381 7.71e-03 -7.73e-03 -3.84e-03 2.08e-04 -3.60e-04 -4.13e-04 6.16e-04
## 1382 2.90e-03 -2.91e-03 3.39e-03 6.04e-04 1.26e-04 -2.89e-04 -1.25e-04
## 1383 -5.34e-04 5.26e-04 1.80e-03 -1.52e-05 -2.13e-05 -5.75e-05 3.96e-04
## 1384 -5.02e-04 5.07e-04 3.58e-04 -2.55e-04 3.50e-05 4.34e-05 -1.20e-05
## 1385 1.27e-04 -1.26e-04 -4.68e-04 2.11e-05 -1.49e-05 8.62e-06 -6.22e-05
## 1386 2.11e-02 -2.15e-02 8.59e-03 2.26e-03 1.89e-03 -7.41e-04 -2.88e-03

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## 1387  2.15e-03 -2.13e-03 -8.75e-03 -7.72e-04 -3.69e-04  1.89e-04 -2.11e-04
## 1388  7.07e-05 -7.06e-05  4.85e-05 -2.20e-06 -9.30e-06 -3.90e-06 -2.89e-05
## 1389 -4.30e-03  4.30e-03  2.42e-04  2.65e-05  3.69e-04  1.81e-04  1.09e-03
## 1390  4.23e-03 -4.21e-03 -5.16e-03  2.16e-04 -4.46e-04 -2.12e-05 -1.55e-03
## 1391  4.37e-03 -4.36e-03 -2.29e-03  7.41e-05 -4.12e-04 -1.18e-04 -1.32e-03
## 1392 -1.64e-03  1.64e-03 -4.96e-04  4.56e-04  1.68e-04  8.18e-05  3.42e-05
## 1393  1.99e-04 -1.98e-04  3.99e-04 -1.31e-04 -3.81e-05 -1.66e-05  8.46e-06
## 1394 -1.73e-02  1.73e-02  1.80e-02 -2.57e-03 -5.30e-05  5.08e-04  1.40e-03
## 1395  6.53e-04 -6.49e-04 -9.17e-05 -2.23e-04 -4.73e-06 -8.68e-06 -7.11e-05
## 1396 -9.67e-04  9.50e-04 -3.18e-03 -2.12e-03  1.02e-04 -4.44e-04 -2.58e-04
## 1397 -5.27e-03  5.26e-03 -1.92e-03  1.48e-04  3.79e-04  2.98e-04  9.86e-04
## 1398  1.23e-02 -1.23e-02 -7.94e-03  8.77e-04 -4.46e-04 -5.07e-04 -6.29e-04
## 1399  2.62e-03 -2.63e-03  5.30e-04  5.56e-05 -1.69e-04 -2.34e-04  6.51e-04
## 1400  3.60e-04 -3.87e-04  1.10e-03 -2.55e-03  5.44e-05 -6.89e-04 -2.45e-04
## 1401  4.27e-05 -4.13e-05  1.10e-03 -1.75e-05 -3.09e-05  8.99e-06 -2.18e-04
## 1402  6.51e-04 -6.47e-04 -4.18e-04 -2.71e-04 -9.85e-05 -9.28e-06 -1.81e-05
## 1403  8.32e-04 -8.47e-04  5.93e-03  1.82e-04  9.11e-05 -2.35e-04  5.83e-05
## 1404  2.56e-03 -2.54e-03  4.94e-03 -1.80e-03  2.28e-05 -1.10e-04 -2.79e-04
## 1405  3.43e-02 -3.44e-02 -1.02e-02 -2.76e-04 -7.15e-04 -1.60e-03 -3.14e-04
## 1406  1.38e-02 -1.39e-02  6.05e-03 -1.48e-04 -7.14e-04 -1.15e-03  1.78e-03
## 1407 -1.34e-03  1.43e-03 -4.10e-03  6.20e-04 -5.41e-04  3.19e-05 -6.60e-04
## 1408  2.70e-02 -2.74e-02 -2.36e-03  2.89e-03  1.93e-03 -6.98e-04 -3.58e-03
## 1409  9.70e-03 -9.97e-03 -2.64e-03  2.20e-03  1.62e-03  1.97e-05 -2.06e-03
## 1410 -1.24e-02  1.24e-02 -3.42e-03  3.17e-04  8.02e-04  6.85e-04  2.01e-03
## 1411 -1.54e-02  1.59e-02 -3.70e-02  3.56e-03 -3.12e-03  4.27e-04 -3.32e-03
## 1412  1.71e-05 -6.55e-06  8.10e-03 -2.06e-03 -4.93e-04 -1.49e-04  3.19e-04
## 1413 -5.55e-03  5.54e-03 -1.96e-03  1.29e-04  5.26e-04  2.90e-04  1.53e-03
## 1414 -1.00e-03  1.00e-03 -2.01e-06 -4.85e-05  1.40e-05  5.64e-05  5.28e-05
## 1415  4.44e-03 -4.66e-03 -1.05e-01  2.87e-03  2.74e-03  3.45e-03  2.10e-04
## 1416 -7.02e-05  6.89e-05  3.82e-04 -1.96e-05  1.95e-05 -1.03e-05  8.21e-05
## 1417 -1.19e-02  1.18e-02  4.97e-03  4.31e-04  1.14e-04  2.23e-04  3.19e-03
## 1418  2.60e-03 -2.31e-03 -1.05e-02  3.04e-03 -3.84e-03 -7.88e-04 -1.47e-03
## 1419  4.18e-03 -4.21e-03  2.50e-03  4.17e-05 -2.90e-04 -4.39e-04  1.24e-03
## 1420 -3.63e-03  3.63e-03  4.72e-03 -1.06e-04 -8.62e-05  9.33e-05 -4.82e-04
## 1421 -5.35e-05  5.31e-05 -9.80e-05 -1.18e-06  7.36e-06 -2.84e-06  4.81e-05
## 1422 -6.74e-03  6.76e-03  3.33e-03 -1.50e-03 -2.00e-04  3.35e-04  5.14e-04
## 1423 -1.21e-04  1.20e-04 -1.19e-04  9.98e-05  3.01e-05  5.33e-06 -4.39e-06
## 1424 -8.03e-04  7.90e-04  6.73e-04  1.20e-04 -5.95e-05 -6.05e-05  8.49e-04
## 1425  3.07e-04 -2.92e-04 -1.61e-03 -6.63e-04  4.98e-05  1.09e-04 -1.81e-04
## 1426  2.16e-02 -2.20e-02  1.33e-03  1.58e-03  4.03e-03 -6.10e-05 -4.79e-03
## 1427 -2.26e-02  2.24e-02 -6.02e-02  1.85e-03  3.99e-03  4.12e-03  2.39e-03
## 1428  5.71e-03 -5.77e-03  1.26e-02 -3.11e-04 -4.46e-04 -8.88e-04  2.18e-03
## 1429 -1.85e-03  1.85e-03 -5.11e-04  4.73e-05  1.20e-04  1.02e-04  3.00e-04
## 1430  5.58e-03 -5.57e-03 -2.31e-03 -9.36e-04 -1.07e-04 -1.29e-04 -4.82e-04
## 1431 -3.18e-03  3.15e-03  5.68e-03  6.52e-05 -7.11e-05 -1.55e-04  1.82e-03
## 1432 -3.09e-03  3.09e-03 -2.58e-03  1.43e-04  2.75e-04  2.07e-04  7.38e-04
## 1433  3.33e-02 -3.38e-02  6.17e-03  2.65e-03  1.93e-03 -1.22e-03 -3.87e-03
## 1434 -3.65e-03  3.70e-03  5.69e-04 -3.54e-03 -3.80e-04 -5.13e-04 -1.84e-03
## 1435 -2.30e-03  2.29e-03 -1.47e-03  3.34e-05  4.69e-04  9.41e-05  1.59e-03
## 1436  1.94e-04 -2.02e-04  3.43e-03 -4.34e-05 -1.31e-04 -3.72e-02  2.00e-04
## 1437 -1.85e-03  1.84e-03 -2.53e-03  7.47e-05  4.49e-04  1.02e-04  1.52e-03
## 1438 -3.54e-03  3.58e-03 -8.57e-03 -1.34e-03 -3.71e-04  5.18e-04  1.17e-04
## 1439 -9.54e-05  7.84e-05  3.10e-03 -2.77e-04  1.08e-04 -2.59e-04  1.07e-03
## 1440  2.96e-03 -2.96e-03  2.09e-03 -1.12e-04 -3.03e-04 -1.80e-04 -8.76e-04

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## 1441 -8.80e-03 8.81e-03 3.33e-03 -6.13e-04 1.06e-04 4.03e-04 5.43e-04
## 1442 -1.53e-02 1.59e-02 -1.39e-02 3.83e-03 -3.70e-03 9.40e-05 -4.08e-03
## 1443 4.44e-04 -4.43e-04 4.50e-04 -3.54e-06 -3.62e-05 -4.04e-06 -1.93e-04
## 1444 -1.72e-04 1.57e-04 -1.45e-03 8.14e-04 1.63e-04 2.88e-04 1.14e-03
## 1445 3.96e-04 -3.91e-04 -7.22e-04 -2.86e-04 -9.89e-05 1.45e-05 -1.02e-05
## 1446 -2.90e-04 2.86e-04 -1.39e-04 2.02e-04 4.91e-05 7.99e-05 3.07e-04
## 1447 2.25e-02 -2.25e-02 -8.22e-03 3.03e-04 -9.48e-04 -1.18e-03 8.65e-04
## 1448 2.13e-03 -2.12e-03 1.19e-04 -5.95e-04 -2.83e-05 -5.70e-05 -1.95e-04
## 1449 1.27e-02 -1.27e-02 -5.48e-04 -1.35e-04 -8.36e-04 -5.82e-04 -2.24e-03
## 1450 2.10e-03 -2.11e-03 -1.04e-03 4.67e-04 6.23e-05 -1.04e-04 -1.60e-04
## 1451 2.14e-02 -2.14e-02 -7.48e-03 -1.26e-04 -4.07e-04 -9.71e-04 -8.34e-05
## 1452 9.39e-04 -9.17e-04 -9.19e-03 -2.63e-04 -1.97e-04 2.43e-04 -2.01e-04
## 1453 8.14e-03 -8.09e-03 -1.14e-03 -2.78e-03 -5.89e-05 -1.08e-04 -8.86e-04
## 1454 -1.96e-03 1.95e-03 -2.08e-02 4.04e-03 9.69e-04 5.48e-04 -6.27e-04
## 1455 7.01e-03 -6.98e-03 3.90e-04 -1.95e-03 -9.30e-05 -1.87e-04 -6.42e-04
## 1456 -1.09e-04 9.03e-05 -1.90e-03 1.26e-03 -8.29e-05 -6.76e-05 1.69e-04
## 1457 -4.94e-03 4.94e-03 -2.30e-03 1.61e-04 3.62e-04 2.93e-04 9.37e-04
## 1458 7.74e-04 -7.74e-04 -3.55e-04 -2.67e-06 -4.77e-06 -3.45e-05 3.31e-05
## 1459 -1.13e-03 1.16e-03 -2.69e-03 -1.28e-03 1.54e-04 2.92e-04 -2.61e-04
## 1460 1.27e-02 -1.29e-02 -7.28e-03 1.79e-03 1.05e-03 -1.23e-04 -1.93e-03
## 1461 -3.71e-03 3.73e-03 1.39e-02 -2.67e-03 2.55e-04 2.99e-05 1.20e-04
## 1462 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 1463 -3.62e-03 3.57e-03 2.94e-03 -4.19e-04 7.03e-04 6.00e-05 2.76e-04
## 1464 -7.02e-04 7.09e-04 -8.79e-07 4.87e-05 -1.54e-04 6.89e-05 -6.57e-04
## 1465 -4.72e-03 4.74e-03 3.92e-03 1.92e-05 2.12e-05 6.86e-04 2.49e-03
## 1466 9.84e-05 -9.39e-05 -5.77e-04 3.99e-04 -1.23e-05 1.07e-04 2.02e-05
## 1467 -3.31e-03 3.35e-03 -1.45e-02 -2.18e-04 -1.24e-04 6.34e-04 -9.88e-05
## 1468 3.04e-02 -3.12e-02 -2.66e-03 3.83e-03 5.67e-03 -2.99e-03 -6.39e-03
## 1469 4.48e-03 -4.46e-03 1.16e-02 -9.90e-04 6.13e-05 -3.35e-04 -2.15e-03
## 1470 -1.67e-02 1.62e-02 -1.66e-02 -1.42e-03 5.05e-03 3.61e-04 2.41e-03
## 1471 -2.06e-04 1.92e-04 1.57e-03 -1.29e-03 3.70e-05 -3.47e-04 -7.82e-05
## 1472 -1.30e-03 1.27e-03 6.57e-04 -1.74e-04 3.44e-04 -1.70e-05 2.12e-04
## 1473 -2.02e-03 2.00e-03 -4.93e-04 -2.29e-03 1.33e-04 -4.81e-04 -1.54e-04
## 1474 1.42e-04 -1.66e-04 1.40e-03 -2.20e-03 5.12e-05 -5.95e-04 -1.92e-04
## 1475 9.46e-03 -9.49e-03 -4.93e-03 -2.68e-03 -2.27e-04 -1.06e-03 -8.36e-04
## 1476 9.14e-03 -9.52e-03 -1.28e-02 2.57e-03 3.09e-03 -8.58e-04 -3.20e-03
## 1477 3.53e-03 -3.54e-03 -1.81e-03 -2.17e-05 -7.03e-05 -3.20e-04 -9.41e-04
## 1478 -3.08e-03 3.08e-03 2.27e-03 -2.71e-05 1.22e-05 1.14e-04 -1.32e-04
## 1479 -2.56e-02 2.57e-02 -3.02e-02 8.80e-03 7.19e-04 3.99e-03 1.23e-03
## 1480 -2.72e-02 2.83e-02 -3.26e-02 6.79e-03 -7.59e-03 4.27e-03 -3.28e-03
## 1481 1.57e-04 -1.83e-04 1.54e-03 -2.43e-03 5.64e-05 -6.56e-04 -2.11e-04
## 1482 3.24e-03 -3.20e-03 2.74e-03 -2.57e-03 7.14e-05 9.17e-06 -5.13e-04
## 1483 6.96e-04 -6.78e-04 -2.98e-03 -7.95e-04 -1.44e-04 -1.29e-04 -6.19e-04
## 1484 -5.05e-04 4.88e-04 -5.81e-04 1.08e-03 -6.24e-05 -6.96e-05 1.95e-04
## 1485 -3.17e-04 3.22e-04 1.28e-03 -4.21e-04 -4.93e-05 4.93e-05 8.23e-05
## 1486 6.66e-04 -6.60e-04 -1.50e-03 -2.10e-04 -5.97e-05 5.64e-05 -3.82e-05
## 1487 -5.45e-03 5.42e-03 1.02e-02 5.65e-04 8.61e-05 -1.02e-04 6.55e-04
## 1488 -2.80e-03 2.79e-03 -1.92e-03 -1.46e-03 1.41e-04 -2.09e-04 -7.41e-05
## 1489 1.03e-02 -1.04e-02 -9.39e-03 4.27e-04 -4.45e-04 -4.05e-04 4.63e-04
## 1490 3.06e-03 -3.05e-03 7.01e-04 -6.33e-05 -2.40e-04 -1.58e-04 -6.62e-04
## 1491 1.34e-04 -1.35e-04 3.99e-04 2.27e-05 6.93e-06 -2.05e-05 -7.26e-07
## 1492 1.62e-03 -1.60e-03 -3.36e-03 -7.81e-04 -3.00e-04 5.32e-05 -8.07e-05
## 1493 5.25e-04 -5.30e-04 -1.03e-03 9.72e-05 -5.28e-05 -3.59e-05 3.06e-04
## 1494 1.67e-03 -1.68e-03 -2.06e-03 1.65e-04 -1.15e-04 -9.39e-05 4.79e-04

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## 1495  5.86e-03 -5.87e-03 -4.63e-03  2.45e-04 -2.75e-04 -2.71e-04  4.82e-04
## 1496  3.56e-03 -3.55e-03 -2.74e-03  1.02e-04 -1.48e-04 -5.28e-05 -5.58e-04
## 1497 -1.16e-02  1.16e-02  2.83e-02 -3.93e-03  5.44e-04  1.26e-04  6.87e-04
## 1498 -2.59e-03  2.63e-03  4.62e-03 -2.37e-03  2.47e-04  2.47e-04 -1.64e-04
## 1499  1.77e-03 -1.77e-03  9.51e-04 -5.98e-05 -1.48e-04 -1.05e-04 -4.04e-04
## 1500 -6.20e-03  6.15e-03  2.19e-02  1.12e-03  7.19e-04 -3.90e-04  6.33e-04
## 1501  3.10e-03 -3.19e-03  7.40e-03  3.53e-03 -4.22e-04 -8.01e-04  7.16e-04
## 1502  4.76e-03 -4.79e-03  2.85e-03  4.75e-05 -3.31e-04 -4.99e-04  1.41e-03
## 1503  3.24e-02 -3.24e-02 -1.13e-02  2.38e-03 -1.24e-03 -1.67e-03 -1.35e-03
## 1504  4.88e-03 -4.90e-03  1.52e-03  3.08e-05 -2.85e-04 -4.22e-04  9.40e-04
## 1505  1.19e-04 -1.18e-04  2.15e-05 -1.54e-05  3.56e-06  5.55e-07 -7.63e-05
## 1506  4.48e-04 -4.46e-04  1.63e-03 -4.15e-04 -1.12e-04 -5.40e-05  4.26e-05
## 1507  7.35e-04 -7.25e-04 -4.06e-03 -1.58e-04 -1.08e-04  9.22e-05 -1.01e-04
## 1508  7.45e-04 -7.39e-04 -3.65e-04 -3.39e-04  2.60e-06  7.92e-06 -1.04e-04
## 1509  5.52e-03 -5.56e-03  3.50e-03 -2.23e-05 -3.41e-04 -5.43e-04  1.24e-03
## 1510  3.83e-03 -3.81e-03 -4.93e-03 -3.53e-04 -7.67e-05 -8.47e-06 -3.83e-04
## 1511  3.61e-03 -3.63e-03  3.53e-03 -2.67e-04  5.90e-05 -3.25e-04  6.33e-04
## 1512 -4.52e-03  4.53e-03  8.49e-03 -1.72e-03 -2.68e-04  6.75e-05  5.22e-04
## 1513 -4.05e-03  4.04e-03 -2.18e-03  8.47e-04  8.66e-05  2.04e-04  2.61e-04
## 1514  2.01e-03 -2.01e-03 -4.19e-04 -4.88e-04 -2.94e-05 -4.41e-05 -1.88e-04
## 1515  2.13e-03 -2.10e-03 -3.45e-03 -1.11e-03  3.18e-05  1.18e-04 -3.96e-04
## 1516 -4.16e-04  4.11e-04  6.75e-04  2.16e-04 -6.22e-06 -2.31e-05  7.74e-05
## 1517 -2.06e-02  2.07e-02 -8.83e-03  4.44e-03  5.99e-04  2.28e-03  1.14e-03
## 1518  2.28e-03 -2.28e-03 -7.10e-03  1.15e-03  1.84e-04  3.89e-05 -3.39e-04
## 1519  2.41e-04 -2.47e-04 -2.27e-04 -2.02e-05  2.31e-05 -1.39e-04 -5.44e-04
## 1520 -8.22e-03  8.22e-03 -1.47e-03  1.66e-04  5.69e-04  4.25e-04  1.50e-03
## 1521  1.20e-03 -1.22e-03  1.39e-03 -1.19e-03 -1.23e-05 -3.87e-04 -1.37e-04
## 1522  5.74e-05 -5.84e-05 -3.09e-04  6.15e-06  3.30e-05 -3.91e-07  1.23e-04
## 1523 -4.57e-04  4.49e-04 -1.41e-03 -9.70e-04  4.69e-05 -2.03e-04 -1.16e-04
## 1524 -3.03e-03  3.03e-03  1.32e-03 -2.91e-05  2.34e-04  9.89e-05  7.07e-04
## 1525 -8.74e-06  8.61e-06 -3.07e-06 -2.27e-07  9.26e-07 -2.18e-06 -1.05e-05
## 1526 -1.13e-04  1.11e-04 -3.42e-03  1.20e-04  2.00e-04  6.92e-05  6.63e-04
## 1527  2.25e-03 -2.26e-03 -3.76e-04 -6.43e-05 -2.82e-05 -3.04e-04 -8.95e-04
## 1528  8.13e-04 -8.14e-04 -6.07e-04  6.39e-06  2.68e-06 -3.09e-05  5.74e-05
## 1529  1.70e-03 -1.71e-03 -3.72e-03  8.42e-05  1.39e-05 -2.52e-04 -1.23e-03
## 1530  5.67e-03 -5.68e-03 -2.01e-03 -5.46e-05  3.28e-06 -2.77e-04  4.10e-04
## 1531 -1.41e-02  1.41e-02  2.73e-02  1.56e-03  3.35e-04  6.19e-04  1.54e-03
## 1532  1.47e-02 -1.46e-02 -1.79e-03 -5.51e-03 -1.22e-03 -1.75e-03 -3.74e-03
## 1533  8.66e-03 -8.45e-03 -1.50e-02  2.37e-03 -2.95e-03 -7.10e-04 -1.54e-03
## 1534 -9.16e-04  9.01e-04  8.63e-04 -9.25e-05  3.86e-04 -3.97e-05  1.45e-03
## 1535  5.00e-04 -4.95e-04  1.71e-03 -7.20e-04 -1.98e-04 -4.44e-05  6.60e-05
## 1536 -2.65e-03  2.65e-03 -2.93e-03 -9.04e-04  1.24e-04 -5.52e-05 -5.16e-05
## 1537 -4.87e-05  4.81e-05 -1.66e-04  7.01e-05  1.93e-05  4.32e-06 -6.43e-06
## 1538 -6.91e-03  6.70e-03 -4.31e-03 -7.60e-04  1.82e-03  9.05e-04  1.91e-03
## 1539  4.30e-03 -4.29e-03  6.67e-05 -2.05e-04 -6.77e-05 -1.56e-04 -9.02e-04
## 1540  2.38e-04 -2.40e-04 -4.39e-04  4.71e-05 -2.67e-05 -1.98e-05  1.65e-04
## 1541  1.86e-03 -1.87e-03 -2.51e-03 -4.40e-05  4.28e-05 -1.83e-04  7.34e-04
## 1542 -5.38e-03  5.39e-03  9.91e-03 -2.11e-03 -3.39e-04  8.91e-05  6.22e-04
## 1543 -3.36e-03  3.36e-03  1.06e-02 -1.84e-03 -3.11e-04 -5.50e-05  5.15e-04
## 1544  1.22e-03 -1.22e-03  5.35e-04 -3.82e-05 -8.87e-05 -7.12e-05 -2.30e-04
## 1545  2.63e-03 -2.63e-03  5.27e-03 -1.06e-03 -3.16e-04 -2.52e-04  5.76e-05
## 1546  1.12e-02 -1.12e-02 -2.48e-04 -1.29e-04 -7.40e-04 -5.19e-04 -1.98e-03
## 1547  3.07e-02 -3.12e-02  5.61e-03  3.29e-03  2.50e-03 -9.48e-04 -4.13e-03
## 1548 -8.52e-03  8.53e-03  5.60e-03 -9.11e-04  3.89e-05  3.33e-04  5.97e-04

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## 1549 8.50e-05 -7.82e-05 6.34e-04 7.60e-06 -1.96e-04 1.18e-05 -7.36e-04
## 1550 -1.68e-03 1.69e-03 2.12e-03 -8.91e-04 -7.66e-05 1.83e-04 2.13e-04
## 1551 1.59e-03 -1.61e-03 6.33e-04 1.48e-04 -1.83e-04 -2.31e-04 1.16e-03
## 1552 -5.12e-03 5.17e-03 -6.92e-03 -1.65e-03 -3.96e-04 5.68e-04 2.50e-04
## 1553 -1.46e-03 1.49e-03 -3.34e-03 -8.67e-04 1.37e-04 2.86e-04 -1.92e-04
## 1554 -4.84e-03 4.85e-03 1.02e-03 -1.15e-03 -1.79e-04 2.85e-04 3.48e-04
## 1555 3.74e-04 -3.76e-04 -4.15e-04 3.67e-05 -2.71e-05 -2.36e-05 1.20e-04
## 1556 1.21e-02 -1.21e-02 -6.96e-03 2.55e-05 -8.78e-05 -4.97e-04 4.22e-04
## 1557 1.30e-02 -1.30e-02 -1.73e-02 4.02e-04 2.94e-04 -3.20e-04 1.66e-03
## 1558 8.36e-04 -7.75e-04 4.77e-03 -4.71e-03 -6.61e-04 -1.04e-03 -2.46e-03
## 1559 1.19e-03 -1.18e-03 -2.64e-03 -4.18e-04 -1.78e-04 3.66e-05 -7.52e-05
## 1560 -1.87e-03 1.85e-03 3.03e-03 9.73e-04 -2.79e-05 -1.04e-04 3.48e-04
## 1561 -1.96e-02 1.96e-02 -2.82e-03 3.72e-03 1.15e-03 5.24e-04 5.33e-04
## 1562 -1.36e-03 1.36e-03 -1.46e-03 6.34e-05 1.96e-04 8.75e-05 6.05e-04
## 1563 -1.49e-03 1.53e-03 1.92e-03 -2.02e-03 1.97e-04 2.38e-04 -2.33e-04
## 1564 4.50e-04 -4.55e-04 -8.31e-04 8.92e-05 -5.05e-05 -3.75e-05 3.13e-04
## 1565 1.73e-03 -1.73e-03 5.89e-04 -4.71e-05 -1.24e-04 -9.71e-05 -3.24e-04
## 1566 -4.33e-05 4.25e-05 1.81e-05 8.98e-06 -4.20e-06 -3.77e-06 5.51e-05
## 1567 3.59e-03 -3.58e-03 3.45e-04 -5.41e-05 -2.73e-04 -1.73e-04 -7.60e-04
## 1568 1.92e-03 -1.92e-03 6.07e-04 -5.02e-05 -1.37e-04 -1.06e-04 -3.58e-04
## 1569 8.36e-04 -7.75e-04 4.77e-03 -4.71e-03 -6.61e-04 -1.04e-03 -2.46e-03
## 1570 -2.57e-03 2.58e-03 5.54e-03 -1.49e-03 1.72e-04 1.19e-04 2.00e-05
## 1571 -4.42e-05 3.54e-05 1.76e-03 -1.10e-04 1.51e-04 -7.51e-05 6.40e-04
## 1572 -9.93e-04 1.00e-03 4.31e-03 -1.05e-04 -3.39e-04 -4.89e-06 -1.27e-03
## 1573 1.36e-02 -1.36e-02 -6.10e-03 -1.73e-04 -2.85e-04 -7.89e-04 5.69e-04
## 1574 6.13e-03 -6.51e-03 -1.11e-03 3.54e-03 3.21e-03 9.41e-04 -2.43e-03
## 1575 8.88e-03 -8.87e-03 -5.63e-03 1.58e-04 -6.47e-04 -2.46e-04 -1.97e-03
## 1576 1.43e-02 -1.43e-02 1.16e-04 -2.00e-04 -8.79e-04 -6.91e-04 -2.25e-03
## 1577 -4.05e-03 4.05e-03 2.57e-03 -7.21e-05 2.96e-04 1.12e-04 9.01e-04
## 1578 -1.26e-04 1.26e-04 8.11e-05 5.25e-05 1.91e-05 1.80e-06 3.52e-06
## 1579 5.16e-03 -5.16e-03 2.53e-03 -9.83e-04 -2.95e-04 -2.03e-04 -1.07e-04
## 1580 1.54e-02 -1.54e-02 -1.29e-02 1.08e-03 -5.43e-04 -5.38e-04 -8.85e-04
## 1581 -2.45e-03 2.46e-03 7.88e-04 -4.42e-04 1.14e-04 1.57e-04 5.38e-05
## 1582 1.53e-03 -1.52e-03 1.30e-03 -1.22e-03 3.38e-05 4.35e-06 -2.43e-04
## 1583 -4.32e-04 4.12e-04 2.14e-03 8.21e-04 -6.08e-05 -1.37e-04 2.30e-04
## 1584 3.98e-03 -4.00e-03 3.74e-04 -2.37e-04 -1.64e-05 -4.04e-04 8.51e-04
## 1585 -6.87e-04 6.80e-04 -2.91e-03 1.44e-05 1.35e-04 -4.73e-05 9.07e-04
## 1586 3.33e-04 -3.35e-04 8.36e-04 -5.05e-05 1.80e-05 -4.69e-05 1.23e-04
## 1587 -4.55e-03 4.52e-03 6.39e-04 1.56e-03 3.29e-05 6.04e-05 4.95e-04
## 1588 -5.64e-03 5.65e-03 5.95e-03 -1.08e-03 -8.56e-05 1.75e-04 4.77e-04
## 1589 2.97e-03 -2.99e-03 -2.38e-03 2.88e-04 -2.41e-04 -2.37e-04 1.20e-03
## 1590 2.53e-03 -2.51e-03 -5.27e-04 -1.33e-03 1.87e-05 2.28e-05 -3.64e-04
## 1591 7.97e-04 -8.00e-04 5.09e-04 -4.45e-05 3.30e-06 -6.22e-05 9.34e-05
## 1592 -1.09e-02 1.09e-02 -2.04e-02 5.21e-03 1.55e-03 9.63e-04 -2.75e-04
## 1593 3.68e-03 -3.69e-03 8.97e-04 -1.33e-04 -1.71e-05 -2.40e-04 2.60e-04
## 1594 -5.71e-04 5.56e-04 -8.67e-03 2.52e-03 6.32e-04 1.74e-04 -3.40e-04
## 1595 1.29e-03 -9.53e-04 1.24e-04 -1.95e-02 -3.16e-03 -1.20e-02 -1.95e-02
## 1596 3.51e-02 -3.50e-02 9.27e-03 -4.57e-03 -1.90e-03 -3.24e-03 -6.88e-03
## 1597 -2.74e-04 2.82e-04 6.40e-03 -1.38e-03 -1.73e-04 3.58e-05 2.72e-04
## 1598 -1.27e-02 1.27e-02 -5.98e-04 -6.94e-04 1.49e-04 7.36e-04 6.64e-04
## 1599 2.00e-02 -2.00e-02 -7.16e-03 2.93e-03 -2.61e-05 9.76e-05 3.55e-03
## 1600 4.78e-03 -4.77e-03 -1.79e-03 -1.24e-04 -8.32e-05 -1.33e-04 -9.34e-04
## 1601 3.72e-05 -3.77e-05 2.00e-04 -1.08e-05 3.68e-06 -8.60e-06 2.36e-05
## 1602 -4.32e-03 4.36e-03 -1.05e-02 -1.64e-03 -4.53e-04 6.32e-04 1.42e-04

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## 1603 3.26e-03 -3.26e-03 -9.04e-04 -4.34e-05 4.83e-06 -1.67e-04 2.55e-04
## 1604 -6.32e-02 6.29e-02 9.28e-04 4.56e-03 4.97e-03 4.02e-03 7.12e-04
## 1605 -3.92e-04 4.07e-04 2.57e-03 -1.47e-03 -3.75e-04 1.37e-05 1.86e-04
## 1606 2.28e-03 -2.27e-03 -3.33e-03 -4.75e-04 -2.32e-04 1.83e-06 -1.37e-04
## 1607 2.86e-03 -2.87e-03 7.83e-04 -1.10e-04 2.04e-06 -1.92e-04 2.65e-04
## 1608 -1.52e-03 1.53e-03 -1.97e-03 -2.28e-04 -4.31e-05 1.53e-04 5.49e-05
## 1609 5.57e-03 -5.53e-03 1.81e-03 -3.13e-03 -5.98e-04 -9.14e-04 -1.89e-03
## 1610 -2.24e-03 2.24e-03 6.87e-04 3.05e-05 -2.27e-05 1.16e-04 -2.48e-04
## 1611 3.33e-03 -3.33e-03 1.74e-03 -1.16e-04 -2.47e-04 -2.02e-04 -6.37e-04
## 1612 1.07e-02 -1.07e-02 5.11e-03 -4.89e-04 -1.07e-04 -7.59e-04 6.11e-04
## 1613 8.07e-03 -8.10e-03 -2.91e-03 3.00e-04 -4.61e-04 -5.45e-04 1.44e-03
## 1614 -8.59e-04 8.52e-04 -1.54e-04 1.11e-04 -2.56e-05 -3.99e-06 5.49e-04
## 1615 -2.70e-05 2.44e-05 -1.61e-04 2.19e-04 6.05e-05 -4.18e-06 -1.93e-05
## 1616 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 1617 4.77e-04 -4.74e-04 5.34e-04 7.25e-05 -5.83e-05 -4.68e-05 -1.66e-04
## 1618 5.22e-05 -3.30e-05 3.91e-03 -1.09e-03 -2.69e-04 -1.39e-04 7.32e-04
## 1619 -3.63e-03 3.61e-03 3.73e-04 -2.98e-04 2.56e-04 2.03e-04 6.94e-04
## 1620 5.76e-03 -5.73e-03 6.55e-04 8.01e-04 -5.59e-04 -3.80e-04 -1.64e-03
## 1621 -4.00e-04 4.18e-04 1.03e-04 4.80e-04 -1.73e-04 -1.01e-05 -6.77e-04
## 1622 9.02e-04 -8.67e-04 -3.70e-03 -9.21e-04 -3.25e-04 2.73e-05 6.30e-04
## 1623 -2.27e-03 2.26e-03 1.13e-03 -2.98e-04 1.86e-04 1.06e-04 5.59e-04
## 1624 -5.42e-03 5.78e-03 2.71e-02 -9.45e-04 -3.34e-03 -8.91e-04 -4.36e-03
## 1625 -1.28e-04 1.29e-04 2.03e-05 -4.62e-05 -9.32e-06 4.89e-06 4.03e-05
## 1626 4.68e-04 -4.72e-04 -1.96e-04 1.57e-04 2.92e-05 -1.49e-05 -1.37e-04
## 1627 -1.15e-02 1.15e-02 2.04e-02 -2.12e-03 8.92e-04 1.19e-04 3.09e-03
## 1628 1.10e-03 -1.10e-03 -3.17e-04 -1.19e-05 -9.58e-06 -5.40e-05 4.20e-05
## 1629 -5.63e-03 5.66e-03 -2.73e-03 -1.55e-03 -3.09e-04 4.62e-04 3.47e-04
## 1630 -5.48e-03 5.18e-03 -3.76e-02 3.92e-03 5.12e-03 2.51e-03 -4.48e-03
## 1631 3.50e-02 -3.56e-02 5.08e-04 3.75e-03 2.63e-03 -9.71e-04 -4.66e-03
## 1632 4.03e-02 -4.07e-02 -3.22e-02 4.27e-03 1.79e-03 -4.98e-04 -5.07e-03
## 1633 5.67e-03 -5.69e-03 -4.25e-03 9.99e-06 -9.02e-05 -5.60e-04 -1.88e-03
## 1634 1.68e-03 -1.66e-03 -2.86e-04 -1.46e-03 -2.55e-04 -3.58e-04 -8.99e-04
## 1635 2.00e-02 -2.03e-02 6.77e-03 -3.89e-03 3.97e-03 -8.69e-05 5.72e-04
## 1636 7.48e-03 -7.50e-03 -3.57e-04 -3.15e-04 -9.50e-05 -6.24e-04 9.82e-04
## 1637 -1.60e-02 1.60e-02 8.98e-04 9.86e-05 1.37e-03 6.72e-04 4.06e-03
## 1638 2.05e-03 -2.05e-03 8.24e-05 -1.93e-05 -8.72e-05 -8.09e-05 -2.66e-04
## 1639 8.87e-03 -8.88e-03 -8.05e-03 3.66e-04 -3.81e-04 -3.47e-04 3.96e-04
## 1640 2.46e-03 -2.45e-03 2.47e-04 -3.11e-05 -2.19e-04 -1.13e-04 -6.45e-04
## 1641 7.98e-03 -8.00e-03 -5.78e-03 2.78e-04 -3.56e-04 -3.64e-04 4.83e-04
## 1642 3.13e-04 -3.21e-04 9.77e-04 -8.42e-05 1.58e-04 -7.48e-05 6.71e-04
## 1643 3.30e-04 -3.28e-04 -1.28e-04 -2.74e-05 6.13e-06 2.76e-06 -1.76e-04
## 1644 -1.01e-02 1.02e-02 -4.48e-03 -1.10e-03 -7.72e-05 7.37e-04 4.98e-04
## 1645 2.75e-03 -2.75e-03 1.02e-03 -5.11e-05 -3.35e-04 -1.32e-04 -1.05e-03
## 1646 1.47e-04 -1.22e-04 2.57e-03 -1.71e-03 1.12e-04 9.16e-05 -2.29e-04
## 1647 -1.19e-02 1.24e-02 -3.31e-02 3.99e-03 -2.82e-03 7.12e-04 -3.67e-03
## 1648 3.34e-04 -3.26e-04 -2.38e-03 1.29e-04 -1.45e-04 7.47e-05 -6.10e-04
## 1649 4.33e-03 -4.31e-03 -4.81e-03 1.74e-04 -3.29e-04 -5.80e-05 -1.08e-03
## 1650 -2.05e-04 2.04e-04 -7.98e-04 1.98e-04 5.29e-05 2.59e-05 -2.12e-05
## 1651 -5.47e-03 5.50e-03 -6.40e-03 -1.14e-03 -2.37e-04 5.46e-04 2.36e-04
## 1652 2.79e-04 -2.78e-04 -2.63e-04 1.15e-05 -3.35e-05 -2.90e-06 -1.16e-04
## 1653 -5.30e-03 5.29e-03 -1.25e-02 2.85e-03 8.16e-04 5.30e-04 -2.09e-04
## 1654 2.15e-03 -2.14e-03 1.95e-03 -8.59e-05 -2.98e-04 -1.30e-04 -9.22e-04
## 1655 1.03e-03 -1.04e-03 -2.37e-04 -2.86e-05 6.51e-05 -6.57e-05 3.30e-04
## 1656 -1.22e-02 1.22e-02 1.10e-02 -2.45e-03 -2.33e-04 4.40e-04 1.01e-03

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## 1657 5.16e-03 -5.17e-03 4.94e-04 -1.50e-04 -2.98e-05 -3.13e-04 3.18e-04
## 1658 7.49e-03 -7.50e-03 3.55e-03 -3.45e-04 -5.18e-05 -5.34e-04 5.16e-04
## 1659 -1.87e-03 1.85e-03 8.06e-03 -3.86e-04 3.26e-04 -1.80e-04 1.37e-03
## 1660 2.22e-03 -2.27e-03 2.68e-02 -2.47e-04 1.53e-04 -9.27e-04 4.24e-04
## 1661 -1.37e-03 1.38e-03 1.23e-02 -2.32e-03 -4.83e-04 -1.91e-04 4.89e-04
## 1662 -4.46e-03 4.48e-03 -6.95e-04 -1.15e-03 -2.07e-04 3.17e-04 2.97e-04
## 1663 -4.42e-05 3.54e-05 1.76e-03 -1.10e-04 1.51e-04 -7.51e-05 6.40e-04
## 1664 -1.15e-04 1.22e-04 -1.69e-03 -2.37e-04 -8.12e-05 6.92e-05 -7.68e-06
## 1665 7.35e-03 -7.34e-03 -9.05e-04 -2.93e-04 -1.20e-04 -2.45e-04 -1.50e-03
## 1666 5.36e-03 -5.35e-03 5.38e-04 -6.78e-05 -4.78e-04 -2.46e-04 -1.41e-03
## 1667 -5.06e-03 5.03e-03 5.28e-03 1.53e-04 -2.84e-05 -6.40e-05 2.09e-03
## 1668 -5.06e-03 5.03e-03 5.28e-03 1.53e-04 -2.84e-05 -6.40e-05 2.09e-03
## 1669 -1.21e-02 1.20e-02 3.66e-02 1.37e-04 7.59e-04 -4.75e-04 1.28e-03
## 1670 3.42e-02 -3.42e-02 -1.13e-02 1.43e-03 -8.62e-04 -1.78e-03 -2.04e-03
## 1671 -8.89e-04 8.84e-04 1.60e-03 7.33e-05 -1.04e-04 -4.10e-02 2.24e-04
## 1672 -1.81e-03 1.81e-03 -1.28e-03 6.83e-05 1.86e-04 1.10e-04 5.35e-04
## 1673 1.01e-02 -1.01e-02 4.92e-03 1.29e-03 -4.75e-04 -8.59e-04 -6.12e-05
## 1674 -6.15e-03 6.14e-03 -4.77e-03 1.43e-03 1.29e-04 3.43e-04 3.76e-04
## 1675 -1.21e-02 1.21e-02 2.81e-02 -1.40e-04 4.79e-04 -3.20e-04 1.12e-03
## 1676 1.10e-03 -1.10e-03 -3.17e-04 -1.19e-05 -9.58e-06 -5.40e-05 4.20e-05
## 1677 1.57e-02 -1.57e-02 -2.85e-03 -2.31e-04 -2.13e-04 -8.05e-04 3.55e-04
## 1678 2.66e-03 -2.65e-03 5.00e-03 -1.70e-03 -5.00e-04 -2.15e-04 1.02e-04
## 1679 3.37e-03 -3.38e-03 2.15e-03 -1.88e-04 1.39e-05 -2.63e-04 3.94e-04
## 1680 7.74e-03 -7.71e-03 -3.29e-03 -1.64e-03 -1.21e-04 -1.39e-04 -7.32e-04
## 1681 8.61e-03 -8.62e-03 -3.66e-04 -1.83e-04 -1.10e-04 -4.77e-04 2.57e-04
## 1682 -1.25e-02 1.24e-02 1.54e-02 1.90e-03 1.97e-04 -3.04e-05 1.36e-03
## 1683 -2.85e-03 2.86e-03 3.00e-03 -8.23e-04 -1.21e-04 1.02e-04 2.63e-04
## 1684 6.01e-03 -6.01e-03 2.47e-03 -1.10e-03 -3.39e-04 -2.27e-04 -1.38e-04
## 1685 8.38e-04 -8.27e-04 2.67e-03 -1.09e-03 -1.80e-04 5.64e-05 1.19e-04
## 1686 2.92e-03 -2.91e-03 2.34e-03 -9.30e-04 -2.20e-04 -7.84e-05 -5.35e-06
## 1687 2.72e-03 -2.26e-03 1.68e-03 -2.66e-02 -4.14e-03 -1.63e-02 -2.65e-02
## 1688 1.48e-03 -1.46e-03 4.72e-03 -1.92e-03 -3.18e-04 9.98e-05 2.11e-04
## 1689 -7.03e-03 6.96e-03 3.07e-02 5.92e-04 6.86e-04 -5.87e-04 8.83e-04
## 1690 9.16e-04 -9.16e-04 2.12e-04 -2.17e-05 -5.88e-05 -4.96e-05 -1.48e-04
## 1691 6.81e-03 -6.80e-03 6.84e-04 -8.62e-05 -6.07e-04 -3.13e-04 -1.79e-03
## 1692 1.28e-03 -1.27e-03 -2.95e-03 -3.42e-04 -1.63e-04 3.76e-05 -9.14e-05
## 1693 9.24e-04 -9.32e-04 4.97e-04 3.24e-05 -7.70e-05 -1.08e-04 3.95e-04
## 1694 -1.29e-04 1.29e-04 -2.17e-03 2.90e-04 3.82e-05 3.32e-05 -6.29e-05
## 1695 -2.39e-04 8.71e-05 1.99e-04 8.66e-03 1.40e-03 5.32e-03 8.67e-03
## 1696 1.35e-03 -1.35e-03 9.15e-04 -5.36e-05 -1.16e-04 -8.50e-05 -3.14e-04
## 1697 -9.47e-04 9.49e-04 5.45e-04 5.16e-07 -5.67e-06 4.12e-05 -8.19e-05
## 1698 -4.31e-04 4.26e-04 -1.66e-03 6.68e-04 1.82e-04 4.17e-05 -6.43e-05
## 1699 3.66e-04 -3.64e-04 1.30e-03 -4.32e-05 -1.31e-04 -3.56e-05 -4.41e-04
## 1700 4.04e-02 -4.04e-02 -2.97e-02 7.24e-04 -1.64e-03 1.13e-01 -2.40e-03
## 1701 4.09e-05 -4.09e-05 4.42e-05 -1.25e-05 -4.16e-06 -2.96e-06 -1.55e-07
## 1702 1.45e-03 -1.44e-03 3.41e-03 -7.78e-04 -2.23e-04 -1.45e-04 5.71e-05
## 1703 -9.84e-04 9.82e-04 2.69e-03 -1.35e-04 1.04e-04 -2.38e-02 6.94e-05
## 1704 -7.85e-03 7.80e-03 4.62e-04 4.42e-03 1.46e-03 1.96e-04 3.80e-05
## 1705 -3.72e-03 3.71e-03 2.72e-03 -9.38e-05 3.27e-04 8.27e-05 1.05e-03
## 1706 4.08e-02 -3.98e-02 -5.59e-02 6.65e-03 -8.35e-03 -2.45e-03 -1.08e-02
## 1707 3.16e-03 -3.16e-03 -5.80e-04 -5.24e-05 -1.13e-05 -1.67e-04 1.94e-04
## 1708 -5.88e-03 5.90e-03 5.18e-03 -1.81e-03 -2.92e-04 2.47e-04 5.32e-04
## 1709 2.59e-03 -2.59e-03 6.95e-04 -5.44e-04 -5.13e-05 -1.07e-04 -1.89e-04
## 1710 -5.67e-03 5.65e-03 2.13e-03 1.75e-04 8.06e-05 1.39e-04 1.28e-03

```

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## 1711  2.49e-03 -2.53e-03  9.03e-03 -1.89e-04 -2.70e-04 -5.55e-04  1.67e-03
## 1712  2.52e-02 -2.52e-02 -8.71e-03  2.76e-04 -1.04e-03 -1.31e-03  7.47e-04
## 1713 -5.50e-03  5.49e-03 -1.52e-03  1.10e-04  5.12e-04  2.76e-04  1.50e-03
## 1714  7.80e-05 -7.88e-05 -3.17e-04  1.09e-04  2.52e-05  2.07e-07 -1.87e-05
## 1715 -2.52e-03  2.53e-03  6.52e-03 -1.67e-03 -8.26e-05 -5.75e-05  1.53e-03
## 1716  2.23e-03 -2.23e-03 -1.76e-03  5.06e-04 -1.10e-04 -7.72e-05 -6.86e-04
## 1717 -7.66e-04  7.69e-04  1.98e-03 -5.09e-04 -2.51e-05 -1.75e-05  4.66e-04
## 1718 -4.40e-04  4.22e-04  2.43e-03 -1.60e-03  5.05e-05 -4.29e-04 -7.54e-05
## 1719  4.04e-04 -4.05e-04 -5.63e-04  8.08e-06  3.71e-05 -1.42e-05  1.60e-04
## 1720 -6.34e-03  6.67e-03  1.92e-02  9.34e-04 -2.84e-03  4.62e-04 -6.11e-04
## 1721  1.10e-02 -1.09e-02 -1.49e-03 -5.70e-05 -7.88e-04 -4.62e-04 -2.23e-03
## 1722 -5.83e-04  6.04e-04  3.81e-03 -2.19e-03 -5.58e-04  2.04e-05  2.77e-04
## 1723  3.36e-04 -3.33e-04  1.43e-03 -4.79e-05 -1.33e-04 -3.72e-05 -4.46e-04
## 1724  6.06e-03 -6.01e-03 -2.65e-02 -5.11e-04 -5.91e-04  5.06e-04 -7.62e-04
## 1725  1.09e-03 -1.13e-03  7.71e-03  1.16e-03  1.83e-04 -5.62e-04 -3.43e-05
## 1726 -5.04e-03  5.00e-03  1.03e-02 -7.52e-05 -4.12e-05 -2.09e-04  2.22e-03
## 1727  6.69e-05 -6.55e-05  1.84e-04 -8.48e-05 -1.81e-05 -3.27e-05 -1.16e-04
## 1728 -5.89e-03  5.85e-03  1.41e-02  1.10e-03  6.22e-04 -1.66e-04  4.68e-04
## 1729  2.28e-03 -2.29e-03  5.24e-05  2.46e-04  6.79e-06 -1.37e-04 -1.30e-04
## 1730 -1.97e-03  1.96e-03 -3.70e-03  1.26e-03  3.70e-04  1.59e-04 -7.57e-05
## 1731 -8.51e-06  8.59e-06  6.69e-06 -6.37e-06 -1.48e-06  5.63e-07  1.06e-06
## 1732  2.00e-04 -1.95e-04 -7.50e-04 -1.67e-04  1.03e-05  3.22e-05 -6.15e-05
## 1733  1.40e-02 -1.40e-02  3.30e-03 -4.73e-05 -7.01e-04 -1.07e-03  1.59e-03
## 1734  1.44e-02 -1.44e-02 -1.86e-02 -9.54e-04 -6.71e-04  4.73e-05 -9.50e-04
## 1735  3.67e-04 -3.89e-04  5.39e-03  7.56e-04  2.59e-04 -2.21e-04  2.45e-05
## 1736  3.70e-05 -5.49e-05  1.04e-03  1.31e-04 -1.15e-04 -1.42e-04  1.07e-03
## 1737 -1.46e-02  1.42e-02  1.71e-02  3.15e-03  3.56e-03  1.03e-03 -1.40e-03
## 1738  2.33e-02 -2.34e-02 -3.52e-03 -3.77e-04 -3.13e-04 -1.22e-03  5.65e-04
## 1739  1.90e-03 -1.91e-03 -1.93e-03  1.29e-04 -1.07e-04 -9.45e-05  3.24e-04
## 1740  3.14e-03 -3.15e-03  6.88e-04 -1.24e-04  5.78e-05 -2.15e-04  5.02e-04
## 1741  1.10e-05 -7.31e-06  2.06e-03 -1.67e-04  4.11e-05 -1.34e-05 -3.86e-04
## 1742 -2.52e-03  2.50e-03  1.41e-02 -2.29e-03  5.61e-04 -5.08e-04 -7.55e-05
## 1743  4.96e-03 -4.99e-03  5.83e-03 -2.12e-03 -1.28e-04 -8.79e-04 -2.80e-04
## 1744  1.60e-03 -1.64e-03 -1.53e-03 -3.32e-03  4.28e-05 -9.02e-04 -4.51e-04
## 1745 -9.50e-04  9.38e-04 -4.67e-03  1.73e-03  4.63e-04  1.11e-04 -1.82e-04
## 1746  2.05e-02 -2.12e-02 -9.86e-03  3.84e-03  5.23e-03 -2.09e-03 -5.52e-03
## 1747  2.86e-03 -2.88e-03  6.15e-04 -1.39e-04 -2.96e-05 -4.57e-04 -1.27e-03
## 1748 -3.39e-03  3.38e-03  4.03e-03 -9.86e-04  1.27e-04 -1.57e-04  1.64e-04
## 1749 -7.84e-04  7.80e-04  1.42e-03 -3.22e-04  3.03e-05 -6.88e-05  4.19e-05
## 1750  2.26e-03 -2.28e-03  6.05e-03 -1.92e-03 -4.34e-05 -7.03e-04 -1.32e-04
## 1751  8.91e-05 -9.20e-05 -5.07e-05 -1.11e-05  1.09e-05 -6.29e-05 -2.43e-04
## 1752  3.45e-04 -3.77e-04  7.82e-03 -2.45e-03  2.91e-05 -7.75e-04 -4.95e-05
## 1753  2.63e-03 -2.62e-03 -1.09e-03  1.49e-05 -1.03e-04 -2.78e-05  1.72e-04
## 1754 -1.45e-03  1.45e-03  7.82e-04 -1.77e-05  5.79e-05  3.79e-06 -1.16e-04
## 1755  8.50e-03 -8.51e-03  1.72e-03  8.82e-05 -7.44e-04 -2.94e-04  1.13e-03
## 1756 -1.43e-03  1.43e-03  1.46e-03 -4.46e-04  5.54e-05 -6.99e-05  5.99e-05
## 1757  1.72e-04 -1.78e-04 -9.18e-05 -2.20e-05  2.15e-05 -1.24e-04 -4.76e-04
## 1758  8.48e-04 -8.35e-04  4.93e-04  1.71e-05 -9.49e-05  2.26e-04  1.11e-03
## 1759 -7.99e-04  7.84e-04  2.90e-03 -1.62e-04  7.39e-05 -2.73e-04 -8.25e-04
## 1760  6.11e-03 -6.14e-03  3.11e-03 -3.28e-04 -1.26e-04 -7.70e-04 -1.64e-03
## 1761 -1.70e-02  1.69e-02  1.29e-02 -2.86e-03  6.05e-04 -1.33e-04  8.32e-04
## 1762 -2.01e-03  1.97e-03  7.22e-03 -5.74e-06 -1.26e-04 -2.74e-04  1.92e-03
## 1763  1.14e-02 -1.14e-02 -6.64e-03  3.01e-04 -4.99e-04 -5.53e-04  5.91e-04
## 1764  7.68e-04 -7.81e-04 -1.11e-03  1.87e-04 -1.18e-04 -1.03e-04  8.29e-04

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## 1765 3.66e-03 -3.66e-03 2.90e-03 -9.39e-04 -2.41e-04 -1.40e-04 -3.13e-05
## 1766 4.75e-04 -4.72e-04 1.64e-03 -5.42e-05 -1.68e-04 -4.53e-05 -5.63e-04
## 1767 4.36e-04 -4.47e-04 1.15e-03 -1.04e-04 2.01e-04 -9.47e-05 8.54e-04
## 1768 7.95e-04 -8.10e-04 -3.75e-03 1.61e-03 3.90e-04 -5.75e-06 -2.40e-04
## 1769 3.15e-03 -3.16e-03 -8.07e-04 5.35e-04 5.47e-05 -1.71e-04 -2.12e-04
## 1770 3.15e-03 -3.16e-03 -8.07e-04 5.35e-04 5.47e-05 -1.71e-04 -2.12e-04
## 1771 -5.72e-03 5.70e-03 -4.81e-03 1.98e-03 6.63e-04 3.60e-04 2.87e-05
## 1772 3.43e-03 -3.40e-03 -1.16e-02 -4.34e-04 -3.39e-04 1.90e-04 -3.54e-04
## 1773 -2.52e-04 2.49e-04 7.86e-04 6.85e-05 -1.08e-06 -1.98e-05 4.75e-05
## 1774 3.96e-03 -3.97e-03 -3.61e-03 -5.61e-05 -6.39e-06 -2.91e-04 7.67e-04
## 1775 -3.50e-04 3.49e-04 2.93e-04 -7.84e-05 1.70e-05 1.16e-05 1.06e-04
## 1776 -4.28e-03 4.27e-03 3.57e-03 -9.56e-04 2.08e-04 1.42e-04 1.29e-03
## 1777 7.74e-04 -7.72e-04 -6.51e-04 1.73e-04 -3.76e-05 -2.55e-05 -2.34e-04
## 1778 -3.07e-03 3.06e-03 2.57e-03 -6.87e-04 1.49e-04 1.02e-04 9.29e-04
## 1779 1.87e-03 -1.88e-03 -4.83e-03 1.29e-03 6.61e-05 4.27e-05 -1.18e-03
## 1780 -1.20e-04 1.20e-04 1.00e-04 -2.69e-05 5.85e-06 3.99e-06 3.63e-05
## 1781 1.85e-03 -1.85e-03 -4.77e-03 1.27e-03 6.53e-05 4.21e-05 -1.16e-03
## 1782 -6.62e-04 6.60e-04 5.53e-04 -1.48e-04 3.22e-05 2.19e-05 2.00e-04
## 1783 -8.06e-03 8.10e-03 -2.07e-05 -1.22e-03 3.73e-04 5.78e-04 1.37e-04
## 1784 1.49e-03 -1.49e-03 2.11e-03 -5.86e-04 -1.25e-04 -5.32e-05 2.52e-05
## 1785 -5.07e-03 5.10e-03 1.09e-02 -2.94e-03 3.40e-04 2.34e-04 3.95e-05
## 1786 -3.28e-04 3.10e-04 -6.83e-04 1.45e-03 4.10e-04 -3.15e-05 -1.14e-04
## 1787 1.75e-03 -1.76e-03 2.18e-04 6.65e-04 -1.13e-04 -1.76e-04 4.77e-05
## 1788 3.39e-03 -3.38e-03 6.09e-03 -1.99e-03 -3.80e-04 -4.62e-05 1.49e-04
## 1789 6.63e-03 -6.66e-03 -7.25e-04 1.99e-04 -4.00e-04 -5.13e-04 1.39e-03
## 1790 6.17e-03 -6.20e-03 3.91e-03 -2.49e-05 -3.81e-04 -6.06e-04 1.39e-03
## 1791 -2.72e-03 2.71e-03 -4.50e-04 5.59e-04 2.27e-04 1.33e-04 7.93e-05
## 1792 1.12e-02 -1.11e-02 -4.10e-03 -6.06e-03 -1.20e-03 -1.64e-03 -4.04e-03
## 1793 1.27e-04 -1.24e-04 -9.08e-04 4.93e-05 -5.51e-05 2.85e-05 -2.32e-04
## 1794 1.87e-03 -1.87e-03 3.50e-03 -8.91e-04 -2.65e-04 -1.65e-04 4.70e-05
## 1795 2.57e-03 -2.58e-03 -1.52e-03 -5.64e-06 -5.18e-05 -2.22e-04 -6.70e-04
## 1796 -1.29e-03 1.27e-03 3.78e-03 -1.08e-03 1.14e-04 -2.17e-05 1.22e-03
## 1797 2.04e-03 -2.03e-03 -1.10e-04 5.47e-04 -8.30e-05 4.40e-05 -4.00e-05
## 1798 1.52e-02 -1.54e-02 -2.03e-04 -2.43e-03 2.62e-03 -1.70e-05 1.93e-04
## 1799 -3.78e-05 1.45e-05 -1.79e-02 4.55e-03 1.09e-03 3.31e-04 -7.07e-04
## 1800 -2.51e-03 2.02e-03 2.62e-02 -3.33e-03 3.20e-03 2.21e-04 4.09e-03
## 1801 -2.51e-03 2.02e-03 2.62e-02 -3.33e-03 3.20e-03 2.21e-04 4.09e-03
## 1802 1.15e-03 -1.17e-03 2.26e-03 -1.40e-03 -7.72e-06 -4.53e-04 -1.33e-04
## 1803 3.74e-05 -4.53e-05 -3.61e-03 8.91e-04 -4.97e-05 2.13e-05 4.50e-05
## 1804 -7.63e-03 7.63e-03 4.04e-03 -1.41e-03 6.55e-04 9.43e-05 3.42e-05
## 1805 -7.88e-03 7.87e-03 1.10e-03 -1.16e-03 2.92e-04 6.39e-05 2.70e-04
## 1806 -6.29e-03 6.29e-03 7.59e-03 -1.16e-03 -7.08e-05 1.63e-04 5.45e-04
## 1807 -8.72e-03 8.17e-03 5.16e-03 -4.51e-03 7.67e-03 -2.90e-04 9.97e-04
## 1808 -2.30e-03 2.29e-03 3.44e-03 -2.55e-03 7.97e-04 -3.22e-04 -5.54e-04
## 1809 4.70e-03 -4.71e-03 -1.69e-03 1.75e-04 -2.68e-04 -3.17e-04 8.41e-04
## 1810 -5.38e-03 5.12e-03 3.47e-03 -2.50e-03 3.71e-03 1.07e-03 1.37e-03
## 1811 2.79e-04 -2.79e-04 -7.67e-04 4.09e-05 -3.56e-05 8.59e-03 -1.68e-05
## 1812 2.71e-03 -2.73e-03 3.43e-03 -1.53e-03 1.23e-04 -4.50e-04 -1.76e-04
## 1813 -6.93e-03 6.95e-03 4.74e-03 -3.66e-03 1.38e-04 -8.58e-04 -1.76e-03
## 1814 1.56e-02 -1.57e-02 -1.90e-03 3.14e-03 -1.52e-03 -2.99e-04 2.37e-04
## 1815 -2.73e-03 2.75e-03 7.40e-04 -1.22e-03 -8.36e-05 -1.14e-04 -5.53e-04
## 1816 5.98e-04 -6.07e-04 2.15e-03 -1.38e-04 1.21e-04 -1.19e-04 5.86e-04
## 1817 -2.96e-03 2.94e-03 -2.40e-03 1.50e-03 -5.17e-07 7.99e-05 3.22e-04
## 1818 -2.44e-03 2.44e-03 3.13e-03 3.10e-04 1.88e-04 2.14e-05 1.54e-04

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## 1819  9.69e-04 -9.69e-04  7.80e-04 -2.61e-05 -5.62e-05 -3.81e-05 -2.28e-04
## 1820 -4.67e-03  4.66e-03  2.62e-03  1.05e-03  3.15e-04 -2.73e-05  1.69e-04
## 1821  5.57e-03 -5.52e-03 -1.18e-02 -1.30e-03 -2.44e-05  2.27e-04 -8.38e-04
## 1822 -2.01e-04  1.93e-04 -4.83e-04  1.19e-04 -5.04e-05 -3.33e-05  5.46e-04
## 1823 -2.43e-03  2.44e-03  3.41e-04  4.85e-05 -7.56e-06  1.35e-04 -2.16e-04
## 1824 -1.64e-02  1.63e-02  1.73e-04  2.56e-03  3.66e-04  6.19e-04  1.18e-03
## 1825  4.49e-03 -4.49e-03 -9.15e-03  1.46e-03  1.90e-04 -3.31e-05 -5.12e-04
## 1826 -7.31e-03  7.28e-03  4.09e-03  1.64e-03  4.93e-04 -4.27e-05  2.64e-04
## 1827  2.73e-03 -2.72e-03 -3.07e-04  1.70e-06 -2.92e-04 -9.99e-05 -9.24e-04
## 1828  1.29e-03 -1.28e-03  4.12e-03 -1.68e-03 -2.78e-04  8.72e-05  1.84e-04
## 1829  7.40e-04 -7.13e-04  9.91e-04 -1.66e-03  9.69e-05  1.06e-04 -2.95e-04
## 1830 -1.05e-02  1.05e-02 -8.43e-03  3.35e-03  7.91e-04  2.82e-04  1.92e-05
## 1831  1.18e-03 -1.17e-03 -2.38e-03 -4.23e-04 -1.05e-04 -9.31e-05 -3.98e-04
## 1832 -2.90e-05  2.93e-05  1.18e-04 -4.06e-05 -9.37e-06 -7.69e-08  6.93e-06
## 1833  3.06e-03 -3.06e-03  6.20e-03 -1.85e-04 -2.40e-04 -1.41e-04 -1.12e-03
## 1834 -2.52e-03  2.50e-03  1.41e-02 -2.29e-03  5.61e-04 -5.08e-04 -7.55e-05
## 1835 -1.04e-02  1.19e-02 -6.67e-02  9.84e-03 -1.13e-02  5.08e-03 -6.31e-03
## 1836  2.47e-03 -2.40e-03  2.17e-03  2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 1837 -7.28e-02  7.51e-02 -3.05e-02  1.30e-02 -1.58e-02  8.81e-03 -5.44e-03
## 1838  8.15e-04 -8.07e-04  2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05  7.89e-05
## 1839 -2.63e-03  2.62e-03  3.71e-03  1.86e-06  4.26e-06 -3.96e-05  9.12e-04
## 1840  1.49e-02 -1.55e-02 -2.48e-03  2.98e-03  4.41e-03 -1.79e-03 -4.36e-03
## 1841 -1.74e-05  1.63e-05 -2.43e-04 -2.69e-05  1.61e-05  1.01e-05  5.14e-05
## 1842  7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05  7.64e-06  1.83e-06  2.97e-05
## 1843  1.28e-02 -1.34e-02  4.99e-03  2.83e-03  4.69e-03 -1.94e-03 -4.26e-03
## 1844  5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 1845  3.65e-03 -3.28e-03  2.26e-03  5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 1846 -2.00e-03  2.02e-03  1.70e-03 -5.82e-04 -9.13e-05  4.28e-05  5.17e-04
## 1847 -1.11e-03  1.10e-03 -2.75e-04  5.59e-06  7.04e-05 -7.74e-05 -5.27e-04
## 1848 -6.04e-03  5.91e-03  1.24e-03 -5.51e-04  1.29e-03  4.21e-05  8.03e-04
## 1849  2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05  8.63e-05
## 1850 -7.11e-03  7.09e-03  5.00e-03 -1.62e-03  2.66e-04 -1.57e-04  2.95e-04
## 1851 -1.35e-03  1.33e-03  4.63e-03 -6.66e-04  2.23e-04 -3.10e-05  8.75e-04
## 1852  1.81e-03 -1.77e-03  1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04  1.03e-03
## 1853  6.48e-03 -6.47e-03 -8.37e-03 -2.70e-04 -2.77e-04 -8.67e-06 -4.43e-04
## 1854  2.07e-03 -2.08e-03  4.14e-03 -2.55e-04  5.89e-05 -2.51e-04  5.26e-04
## 1855 -1.61e-02  1.61e-02  2.94e-03 -1.45e-03  6.88e-05  8.49e-04  9.59e-04
## 1856 -7.80e-03  7.83e-03  5.72e-03 -2.53e-03 -4.35e-04  3.68e-04  6.93e-04
## 1857 -5.42e-03  5.44e-03  8.73e-03 -2.54e-03 -4.73e-04  1.48e-04  6.36e-04
## 1858 -4.12e-03  4.12e-03  4.73e-03 -7.71e-04 -5.27e-05  1.15e-04  3.54e-04
## 1859 -2.29e-03  2.29e-03  6.51e-05  6.22e-06  2.51e-04  8.84e-05  7.93e-04
## 1860  2.30e-04 -2.30e-04 -1.48e-04 -1.29e-06  1.10e-05 -1.12e-05  5.67e-05
## 1861 -1.71e-03  1.74e-03  8.04e-03 -2.16e-03  1.81e-04  6.13e-05 -5.97e-05
## 1862 -3.93e-03  3.92e-03 -4.94e-03  1.24e-03  6.81e-05  2.47e-04  2.39e-04
## 1863 -3.55e-03  3.53e-03  2.28e-03  1.47e-03  5.36e-04  5.06e-05  9.87e-05
## 1864 -9.88e-03  9.87e-03  2.36e-03  8.50e-06  6.94e-04  3.91e-04  1.97e-03
## 1865  9.38e-03 -9.43e-03  1.10e-02  1.95e-03  4.07e-04 -9.36e-04 -4.05e-04
## 1866  9.01e-03 -9.03e-03 -4.28e-03  2.86e-04 -4.53e-04 -5.20e-04  1.03e-03
## 1867  4.42e-03 -4.43e-03  1.13e-05  6.69e-04 -2.04e-04 -3.17e-04 -7.52e-05
## 1868  6.78e-03 -6.80e-03 -3.24e-04 -2.85e-04 -8.62e-05 -5.67e-04  8.91e-04
## 1869  1.21e-03 -1.21e-03  1.77e-04 -3.53e-04 -1.55e-05 -3.44e-05 -1.10e-04
## 1870  7.27e-04 -7.25e-04  2.69e-04 -1.35e-05 -8.85e-05 -3.48e-05 -2.77e-04
## 1871  1.52e-03 -1.51e-03  1.95e-04  5.24e-06 -2.69e-04 -4.72e-05 -9.16e-04
## 1872  7.74e-03 -7.73e-03 -4.35e-04 -4.77e-05 -6.63e-04 -3.25e-04 -1.97e-03

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## 1873 2.94e-03 -2.94e-03 1.40e-02 -2.47e-03 -6.29e-04 -4.66e-04 3.22e-04
## 1874 -2.41e-05 2.54e-05 2.41e-04 -2.73e-06 -3.88e-05 1.42e-06 -1.45e-04
## 1875 -1.61e-02 1.61e-02 2.94e-03 -1.45e-03 6.88e-05 8.49e-04 9.59e-04
## 1876 -7.80e-03 7.83e-03 5.72e-03 -2.53e-03 -4.35e-04 3.68e-04 6.93e-04
## 1877 2.40e-04 -2.00e-04 4.19e-03 -2.78e-03 1.83e-04 1.49e-04 -3.74e-04
## 1878 -5.42e-03 5.44e-03 8.73e-03 -2.54e-03 -4.73e-04 1.48e-04 6.36e-04
## 1879 -4.12e-03 4.12e-03 4.73e-03 -7.71e-04 -5.27e-05 1.15e-04 3.54e-04
## 1880 -2.29e-03 2.29e-03 6.51e-05 6.22e-06 2.51e-04 8.84e-05 7.93e-04
## 1881 2.30e-04 -2.30e-04 -1.48e-04 -1.29e-06 1.10e-05 -1.12e-05 5.67e-05
## 1882 -1.71e-03 1.74e-03 8.04e-03 -2.16e-03 1.81e-04 6.13e-05 -5.97e-05
## 1883 -7.17e-03 7.17e-03 -5.06e-03 2.71e-04 7.36e-04 4.37e-04 2.12e-03
## 1884 -3.93e-03 3.92e-03 -4.94e-03 1.24e-03 6.81e-05 2.47e-04 2.39e-04
## 1885 -3.55e-03 3.53e-03 2.28e-03 1.47e-03 5.36e-04 5.06e-05 9.87e-05
## 1886 1.20e-02 -1.21e-02 -2.54e-03 2.86e-03 4.44e-04 -7.09e-04 -8.65e-04
## 1887 -9.88e-03 9.87e-03 2.36e-03 8.50e-06 6.94e-04 3.91e-04 1.97e-03
## 1888 9.38e-03 -9.43e-03 1.10e-02 1.95e-03 4.07e-04 -9.36e-04 -4.05e-04
## 1889 3.98e-05 -3.18e-05 -1.58e-03 9.85e-05 -1.36e-04 6.75e-05 -5.76e-04
## 1890 9.01e-03 -9.03e-03 -4.28e-03 2.86e-04 -4.53e-04 -5.20e-04 1.03e-03
## 1891 4.42e-03 -4.43e-03 1.13e-05 6.69e-04 -2.04e-04 -3.17e-04 -7.52e-05
## 1892 -2.53e-04 2.53e-04 -2.94e-05 1.50e-05 2.90e-06 8.78e-06 6.33e-05
## 1893 5.29e-03 -5.30e-03 -4.18e-03 2.22e-04 -2.49e-04 -2.45e-04 4.36e-04
## 1894 6.78e-03 -6.80e-03 -3.24e-04 -2.85e-04 -8.62e-05 -5.67e-04 8.91e-04
## 1895 -3.86e-05 3.17e-05 1.25e-03 -1.12e-04 4.37e-05 -1.05e-04 4.32e-04
## 1896 5.83e-04 -5.63e-04 5.88e-04 -1.19e-03 6.88e-05 7.78e-05 -2.19e-04
## 1897 1.16e-03 -1.16e-03 2.17e-03 -5.52e-04 -1.64e-04 -1.02e-04 2.91e-05
## 1898 1.43e-02 -1.43e-02 -5.28e-03 -8.39e-05 -2.08e-04 -6.52e-04 1.83e-04
## 1899 -2.43e-03 2.43e-03 2.14e-03 -7.47e-04 -1.20e-04 1.02e-04 2.19e-04
## 1900 -7.99e-04 8.21e-04 -1.91e-03 -9.08e-04 1.09e-04 2.06e-04 -1.85e-04
## 1901 -1.16e-02 1.17e-02 -3.33e-03 -1.02e-03 5.03e-08 7.79e-04 5.87e-04
## 1902 3.26e-03 -3.23e-03 -6.42e-03 -1.04e-03 4.61e-06 1.47e-04 -5.26e-04
## 1903 3.15e-03 -3.17e-03 6.14e-03 -1.36e-03 -8.90e-05 -6.04e-04 -1.13e-04
## 1904 7.29e-03 -7.74e-03 8.67e-03 1.83e-03 3.42e-03 -1.44e-03 -2.85e-03
## 1905 1.60e-02 -1.66e-02 7.41e-03 2.10e-03 3.72e-03 -1.99e-03 -3.72e-03
## 1906 2.44e-03 -2.46e-03 3.74e-03 -1.58e-03 -5.11e-05 -5.85e-04 -1.69e-04
## 1907 2.41e-03 -2.42e-03 -5.25e-03 -1.31e-03 -2.67e-05 -3.65e-04 -3.86e-04
## 1908 6.21e-03 -6.21e-03 -4.91e-03 -1.18e-04 1.15e-04 -3.28e-04 -1.41e-03
## 1909 3.65e-03 -3.64e-03 8.13e-03 -1.56e-03 -4.54e-04 -3.70e-04 1.03e-04
## 1910 -4.77e-04 4.83e-04 -5.98e-07 3.31e-05 -1.05e-04 4.69e-05 -4.47e-04
## 1911 2.23e-03 -2.55e-03 -7.73e-03 -1.28e-03 2.25e-03 7.06e-04 2.17e-03
## 1912 1.96e-03 -2.40e-03 1.31e-02 -2.69e-03 2.91e-03 3.10e-04 3.39e-03
## 1913 1.64e-02 -1.70e-02 2.33e-02 -3.72e-03 2.81e-03 -6.42e-04 3.37e-03
## 1914 3.17e-03 -3.20e-03 1.90e-03 3.17e-05 -2.21e-04 -3.33e-04 9.44e-04
## 1915 -1.05e-02 1.05e-02 -4.83e-03 2.50e-03 9.42e-04 5.95e-04 2.21e-04
## 1916 1.22e-03 -6.24e-04 -2.76e-02 3.96e-03 -3.95e-03 -3.21e-04 -4.89e-03
## 1917 2.02e-03 -2.02e-03 1.68e-03 -7.45e-05 -2.75e-04 -1.18e-04 -8.53e-04
## 1918 -2.22e-02 2.22e-02 1.87e-02 -2.36e-03 1.47e-04 7.41e-04 1.63e-03
## 1919 1.20e-03 -1.20e-03 -3.68e-04 -1.64e-05 1.22e-05 -6.22e-05 1.33e-04
## 1920 -3.00e-03 3.03e-03 6.21e-04 -1.83e-03 2.41e-04 3.43e-04 -1.73e-04
## 1921 -7.62e-04 7.47e-04 3.18e-04 1.58e-04 -7.40e-05 -6.63e-05 9.70e-04
## 1922 -3.34e-03 3.33e-03 1.90e-04 2.49e-04 -1.04e-05 5.25e-05 1.30e-03
## 1923 5.75e-03 -5.78e-03 2.75e-04 8.54e-05 -3.20e-04 -4.42e-04 9.57e-04
## 1924 2.22e-05 -3.64e-05 4.85e-03 1.61e-04 -4.08e-05 -1.80e-04 1.77e-04
## 1925 -1.44e-02 1.44e-02 1.52e-02 -2.76e-03 -2.18e-04 4.45e-04 1.21e-03
## 1926 9.88e-03 -9.88e-03 1.98e-03 -2.09e-04 -6.87e-04 -5.17e-04 -1.81e-03

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## 1927 -1.46e-02 1.46e-02 3.49e-03 1.26e-05 1.03e-03 5.78e-04 2.91e-03
## 1928 3.52e-02 -3.53e-02 -1.24e-02 -1.90e-04 -7.39e-04 -1.59e-03 -4.06e-04
## 1929 -5.06e-04 5.11e-04 9.34e-04 -1.00e-04 5.68e-05 4.21e-05 -3.51e-04
## 1930 -2.85e-04 2.85e-04 -1.73e-04 1.05e-05 2.42e-05 1.74e-05 6.57e-05
## 1931 -4.49e-04 4.51e-04 5.40e-04 -3.42e-06 -4.93e-05 1.98e-05 -2.11e-04
## 1932 -8.64e-03 8.65e-03 2.43e-03 -1.14e-03 -5.54e-05 4.47e-04 5.60e-04
## 1933 1.10e-02 -1.11e-02 -6.81e-03 3.44e-04 -5.03e-04 -5.45e-04 7.69e-04
## 1934 1.33e-02 -1.34e-02 -6.42e-03 2.71e-03 1.25e-04 3.26e-04 3.39e-03
## 1935 2.64e-03 -2.65e-03 -2.48e-04 3.53e-04 2.38e-05 -1.52e-04 -1.62e-04
## 1936 7.32e-03 -7.31e-03 7.52e-04 -3.29e-04 -1.47e-04 -3.14e-04 -1.24e-03
## 1937 8.06e-05 -8.35e-05 -2.27e-05 3.01e-05 -2.17e-05 -2.26e-05 1.75e-04
## 1938 -1.20e-02 1.20e-02 7.08e-03 -1.69e-03 5.04e-04 6.09e-04 4.46e-04
## 1939 8.10e-03 -8.10e-03 -2.03e-03 -9.28e-05 -1.13e-04 -3.99e-04 1.54e-04
## 1940 1.46e-02 -1.46e-02 -6.58e-03 -2.05e-05 -2.65e-04 -6.22e-04 -5.60e-05
## 1941 2.42e-03 -2.42e-03 -4.52e-05 -5.92e-05 -4.91e-06 -1.40e-04 1.76e-04
## 1942 1.07e-02 -1.07e-02 -1.32e-03 -3.50e-04 -1.85e-04 -7.90e-04 9.35e-04
## 1943 -1.01e-03 1.00e-03 5.60e-03 -1.73e-04 -1.31e-04 4.66e-02 2.51e-04
## 1944 5.03e-02 -5.04e-02 -1.85e-02 4.20e-04 -1.96e-03 -2.48e-03 4.02e-04
## 1945 1.35e-03 -1.30e-03 1.36e-03 -2.76e-03 1.59e-04 1.80e-04 -5.07e-04
## 1946 -7.20e-03 7.20e-03 1.91e-03 8.38e-06 4.52e-04 2.89e-04 1.23e-03
## 1947 4.88e-04 -4.87e-04 -3.55e-05 -2.08e-05 -7.87e-06 -1.68e-05 -1.01e-04
## 1948 -7.41e-04 7.39e-04 -1.38e-03 1.30e-04 -5.89e-06 4.52e-05 3.18e-04
## 1949 2.40e-03 -2.41e-03 2.91e-03 -3.00e-04 1.24e-05 -3.64e-04 8.23e-04
## 1950 -1.42e-04 1.44e-04 -1.41e-05 -1.48e-04 -3.80e-05 1.53e-05 1.86e-05
## 1951 6.95e-04 -6.91e-04 -4.76e-04 -1.72e-04 -7.98e-06 -3.78e-06 -7.56e-05
## 1952 2.04e-03 -2.02e-03 1.73e-03 -1.62e-03 4.51e-05 5.80e-06 -3.24e-04
## 1953 -3.86e-03 3.90e-03 -9.36e-03 -1.47e-03 -4.05e-04 5.66e-04 1.27e-04
## 1954 7.07e-03 -7.05e-03 -1.13e-02 4.20e-04 -4.33e-04 -1.57e-05 -1.46e-03
## 1955 -1.89e-03 1.88e-03 -1.14e-03 6.92e-05 1.60e-04 1.15e-04 4.35e-04
## 1956 7.18e-04 -7.18e-04 3.15e-04 -2.12e-05 -5.89e-05 -4.09e-05 -1.61e-04
## 1957 4.27e-03 -4.25e-03 7.66e-03 -2.51e-03 -4.78e-04 -5.81e-05 1.87e-04
## 1958 7.29e-03 -7.30e-03 -1.96e-03 -9.14e-05 -3.19e-05 -3.68e-04 4.06e-04
## 1959 -3.37e-03 3.40e-03 6.79e-03 -2.37e-03 2.61e-04 2.16e-04 -6.21e-05
## 1960 6.89e-03 -6.89e-03 -8.65e-03 1.33e-04 -1.05e-04 -2.83e-04 3.97e-04
## 1961 -1.93e-03 1.93e-03 -1.33e-03 6.02e-05 2.54e-04 1.07e-04 7.92e-04
## 1962 1.53e-03 -1.53e-03 1.23e-03 -4.88e-04 -1.15e-04 -4.11e-05 -2.80e-06
## 1963 -3.09e-03 3.10e-03 3.78e-03 -7.65e-04 1.44e-04 1.27e-04 1.17e-04
## 1964 -4.65e-03 4.65e-03 -6.38e-03 1.34e-03 4.37e-04 3.81e-04 -2.27e-06
## 1965 1.43e-06 -1.43e-06 5.22e-06 -1.33e-06 -3.57e-07 -1.73e-07 1.36e-07
## 1966 -6.82e-04 6.83e-04 6.93e-04 -1.02e-04 -2.39e-06 2.06e-05 5.48e-05
## 1967 1.27e-03 -1.27e-03 -3.60e-04 -2.29e-05 3.36e-05 -7.06e-05 2.23e-04
## 1968 1.17e-03 -1.17e-03 1.10e-03 -4.20e-04 -1.39e-04 -7.67e-05 -2.54e-06
## 1969 -2.47e-04 2.46e-04 -5.20e-04 1.01e-05 2.40e-05 4.61e-06 1.31e-04
## 1970 -5.35e-03 5.38e-03 -6.26e-03 -1.12e-03 -2.32e-04 5.34e-04 2.31e-04
## 1971 1.02e-02 -1.03e-02 -4.28e-03 1.00e-03 -1.74e-04 -6.08e-04 -6.86e-04
## 1972 -1.05e-02 1.05e-02 -4.83e-03 2.50e-03 9.42e-04 5.95e-04 2.21e-04
## 1973 2.27e-02 -2.28e-02 -1.54e-02 5.38e-05 -5.49e-04 -1.04e-03 7.47e-05
## 1974 -3.23e-03 3.23e-03 -3.14e-03 1.58e-04 3.50e-04 2.18e-04 1.00e-03
## 1975 -2.05e-02 2.05e-02 -3.83e-02 8.00e-03 2.41e-03 1.89e-03 -3.70e-04
## 1976 1.62e-03 -1.60e-03 -3.36e-03 -7.81e-04 -3.00e-04 5.32e-05 -8.07e-05
## 1977 1.79e-05 -1.79e-05 -1.31e-05 4.52e-07 -1.58e-06 -3.99e-07 -5.09e-06
## 1978 1.22e-03 -6.24e-04 -2.76e-02 3.96e-03 -3.95e-03 -3.21e-04 -4.89e-03
## 1979 2.02e-03 -2.02e-03 1.68e-03 -7.45e-05 -2.75e-04 -1.18e-04 -8.53e-04
## 1980 2.46e-03 -2.45e-03 2.47e-04 -3.11e-05 -2.19e-04 -1.13e-04 -6.45e-04

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## 1981 1.27e-03 -1.27e-03 -3.60e-04 -2.29e-05 3.36e-05 -7.06e-05 2.23e-04
## 1982 2.03e-03 -2.02e-03 2.38e-03 -2.72e-04 5.51e-06 -9.81e-05 -7.72e-04
## 1983 8.84e-04 -8.84e-04 1.77e-04 -1.87e-05 -6.14e-05 -4.62e-05 -1.62e-04
## 1984 -2.22e-02 2.22e-02 1.87e-02 -2.36e-03 1.47e-04 7.41e-04 1.63e-03
## 1985 5.25e-04 -5.30e-04 -1.03e-03 9.72e-05 -5.28e-05 -3.59e-05 3.06e-04
## 1986 1.67e-03 -1.68e-03 -2.06e-03 1.65e-04 -1.15e-04 -9.39e-05 4.79e-04
## 1987 1.20e-03 -1.20e-03 -3.68e-04 -1.64e-05 1.22e-05 -6.22e-05 1.33e-04
## 1988 -1.64e-03 1.64e-03 -4.96e-04 4.56e-04 1.68e-04 8.18e-05 3.42e-05
## 1989 2.18e-03 -2.37e-03 2.40e-03 -1.08e-03 1.27e-03 1.70e-04 1.38e-03
## 1990 1.21e-02 -1.22e-02 -1.36e-02 8.51e-04 -6.62e-04 -5.47e-04 1.85e-03
## 1991 -3.00e-03 3.03e-03 6.21e-04 -1.83e-03 2.41e-04 3.43e-04 -1.73e-04
## 1992 4.52e-04 -4.10e-04 -7.30e-03 -2.01e-03 -6.54e-04 2.96e-04 -7.69e-07
## 1993 1.04e-02 -1.04e-02 1.24e-02 -3.74e-03 -1.41e-04 -5.84e-04 -7.36e-04
## 1994 1.82e-03 -1.82e-03 -2.07e-03 1.27e-06 -8.82e-06 -1.11e-04 2.83e-04
## 1995 1.53e-03 -1.52e-03 -3.30e-03 1.57e-04 -2.28e-04 4.53e-05 -8.65e-04
## 1996 -1.07e-03 1.07e-03 -6.50e-05 3.77e-05 -3.64e-05 7.13e-05 -2.30e-04
## 1997 1.09e-05 -1.21e-05 4.62e-05 9.58e-06 -7.87e-06 -9.25e-06 7.03e-05
## 1998 3.04e-03 -3.02e-03 -1.79e-04 -1.71e-03 -5.68e-04 -7.61e-05 -1.47e-05
## 1999 -1.20e-03 1.20e-03 2.62e-04 2.68e-05 8.43e-07 1.18e-02 8.20e-05
## 2000 -2.42e-02 2.42e-02 3.25e-02 1.46e-03 1.11e-03 -9.64e-05 1.63e-03
## 2001 -2.53e-05 2.66e-05 -1.34e-04 -7.10e-05 -2.07e-05 8.91e-06 4.37e-06
## 2002 3.80e-03 -3.83e-03 2.28e-03 3.80e-05 -2.64e-04 -3.99e-04 1.13e-03
## 2003 1.06e-05 -1.58e-05 2.98e-04 3.76e-05 -3.30e-05 -4.08e-05 3.08e-04
## 2004 -2.25e-04 2.40e-04 -5.02e-03 -3.28e-04 -1.39e-04 1.81e-04 -5.88e-05
## 2005 -6.34e-04 6.45e-04 -2.46e-04 -7.26e-04 -1.89e-04 7.69e-05 8.46e-05
## 2006 6.82e-03 -6.81e-03 -9.31e-04 -3.55e-05 -4.91e-04 -2.88e-04 -1.39e-03
## 2007 8.46e-04 -8.47e-04 -1.58e-05 -2.07e-05 -1.72e-06 -4.91e-05 6.14e-05
## 2008 -2.87e-03 2.86e-03 -1.09e-03 8.24e-04 2.99e-04 1.48e-04 5.32e-05
## 2009 1.43e-03 -1.43e-03 1.48e-03 -4.29e-04 -1.44e-04 -1.02e-04 -7.24e-06
## 2010 -7.42e-04 7.85e-04 -1.09e-02 -1.53e-03 -5.24e-04 4.47e-04 -4.96e-05
## 2011 1.50e-03 -1.50e-03 1.05e-04 -4.51e-05 8.40e-06 -9.30e-05 1.58e-04
## 2012 -7.40e-04 7.33e-04 1.48e-03 -1.18e-04 7.41e-05 -8.58e-05 5.38e-04
## 2013 -6.53e-03 6.50e-03 9.45e-03 -5.29e-04 3.76e-04 -2.07e-04 2.14e-03
## 2014 6.76e-03 -7.57e-03 -9.24e-03 4.68e-02 6.90e-03 2.82e-02 4.59e-02
## 2015 -2.53e-05 2.53e-05 4.57e-05 -1.72e-06 1.39e-06 -6.79e-08 4.77e-06
## 2016 -1.07e-03 1.06e-03 3.61e-03 -3.06e-05 -4.28e-05 -1.15e-04 7.96e-04
## 2017 -1.46e-02 1.46e-02 -2.63e-03 3.12e-04 9.25e-04 7.69e-04 2.34e-03
## 2018 6.77e-04 -6.85e-04 8.48e-07 -4.70e-05 1.49e-04 -6.65e-05 6.34e-04
## 2019 -1.91e-04 1.82e-04 1.06e-03 4.15e-05 -4.97e-05 -7.34e-05 5.39e-04
## 2020 -1.51e-03 1.52e-03 2.83e-05 3.70e-05 3.08e-06 8.78e-05 -1.10e-04
## 2021 -1.15e-02 1.16e-02 5.06e-04 -1.03e-03 3.47e-05 6.57e-04 6.56e-04
## 2022 -1.15e-02 1.16e-02 5.06e-04 -1.03e-03 3.47e-05 6.57e-04 6.56e-04
## 2023 4.46e-03 -4.47e-03 2.58e-03 -2.54e-04 1.07e-04 -3.56e-04 8.59e-04
## 2024 9.31e-03 -9.34e-03 9.36e-04 -3.14e-04 -2.00e-04 -9.95e-04 -2.31e-03
## 2025 1.27e-03 -1.31e-03 7.74e-03 -3.03e-03 1.46e-05 -9.69e-04 -1.53e-04
## 2026 -4.57e-04 4.56e-04 4.00e-05 2.15e-06 2.07e-05 -1.47e-06 -7.54e-05
## 2027 1.28e-03 -1.32e-03 7.82e-03 -3.07e-03 1.47e-05 -9.79e-04 -1.55e-04
## 2028 2.09e-03 -2.11e-03 -2.81e-04 -9.24e-05 8.32e-06 -4.36e-04 -1.43e-03
## 2029 1.67e-02 -1.68e-02 1.46e-03 -6.31e-04 -3.59e-04 -1.24e-03 9.91e-04
## 2030 1.29e-03 -1.33e-03 7.85e-03 -3.08e-03 1.48e-05 -9.82e-04 -1.56e-04
## 2031 -6.11e-04 6.22e-04 -1.67e-03 -3.89e-04 -4.97e-05 1.69e-04 4.01e-05
## 2032 1.79e-04 -1.79e-04 -5.25e-05 -5.79e-05 -4.23e-06 -2.26e-05 -1.54e-05
## 2033 -2.98e-03 2.78e-03 -8.74e-04 -8.90e-04 1.87e-03 -2.10e-04 9.12e-04
## 2034 1.54e-03 -1.55e-03 -3.36e-03 7.41e-05 1.42e-05 -2.37e-04 -1.15e-03

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## 2035 -1.26e-02 1.26e-02 -1.36e-02 3.83e-03 1.28e-03 9.08e-04 4.75e-05
## 2036 -2.76e-03 2.76e-03 -3.03e-03 1.68e-03 -3.48e-04 4.44e-04 5.14e-04
## 2037 -2.72e-03 2.73e-03 -3.00e-03 1.66e-03 -3.44e-04 4.39e-04 5.08e-04
## 2038 6.25e-03 -6.26e-03 -6.66e-03 1.14e-04 -1.11e-04 -4.94e-04 -1.85e-03
## 2039 -7.23e-03 7.22e-03 1.45e-04 -1.40e-03 2.81e-04 -1.34e-05 1.90e-04
## 2040 4.33e-03 -4.35e-03 3.17e-03 -2.19e-03 -9.57e-05 -8.22e-04 -3.31e-04
## 2041 4.72e-03 -4.74e-03 -3.33e-03 -5.31e-05 -1.40e-05 -7.39e-04 -2.62e-03
## 2042 -3.21e-03 3.20e-03 -2.74e-04 -1.44e-03 1.48e-04 -2.10e-04 -7.86e-06
## 2043 -9.85e-04 9.69e-04 4.97e-03 -2.50e-04 2.39e-04 -1.28e-04 1.01e-03
## 2044 -5.65e-03 5.67e-03 3.59e-03 -9.61e-04 2.49e-04 2.97e-04 1.89e-04
## 2045 6.32e-02 -6.30e-02 -3.02e-02 -9.76e-04 -4.64e-03 -3.12e-03 -1.59e-03
## 2046 2.06e-03 -2.05e-03 5.12e-03 -5.06e-04 6.64e-05 -1.10e-04 -1.35e-03
## 2047 -5.84e-04 6.13e-04 -3.10e-03 -1.64e-03 -4.77e-04 2.06e-04 1.01e-04
## 2048 2.06e-03 -2.05e-03 5.12e-03 -5.06e-04 6.64e-05 -1.10e-04 -1.35e-03
## 2049 4.43e-03 -4.42e-03 -1.24e-03 -8.34e-04 -2.68e-04 -5.01e-05 -1.55e-04
## 2050 -1.38e-03 1.38e-03 1.65e-03 -1.05e-05 -1.51e-04 6.05e-05 -6.47e-04
## 2051 9.93e-03 -9.93e-03 3.13e-03 -2.59e-04 -7.07e-04 -5.49e-04 -1.85e-03
## 2052 6.47e-03 -6.47e-03 2.04e-03 -1.69e-04 -4.60e-04 -3.58e-04 -1.20e-03
## 2053 -6.28e-04 6.23e-04 2.44e-04 5.21e-05 -1.17e-05 -5.26e-06 3.35e-04
## 2054 -3.61e-03 3.64e-03 -4.51e-04 -1.37e-03 2.34e-04 3.64e-04 -9.85e-05
## 2055 1.37e-02 -1.37e-02 -1.21e-02 4.81e-04 -5.45e-04 -5.01e-04 2.13e-04
## 2056 2.26e-03 -2.28e-03 2.75e-03 -2.82e-04 1.17e-05 -3.43e-04 7.76e-04
## 2057 -6.09e-05 6.16e-05 1.82e-04 -2.06e-05 3.50e-05 -1.02e-02 -9.48e-06
## 2058 6.78e-04 -6.73e-04 -2.64e-04 -5.63e-05 1.26e-05 5.68e-06 -3.62e-04
## 2059 1.82e-03 -1.84e-03 9.82e-04 6.40e-05 -1.52e-04 -2.14e-04 7.79e-04
## 2060 -3.76e-03 3.77e-03 8.86e-04 -5.82e-04 2.76e-05 2.88e-04 2.62e-04
## 2061 8.08e-03 -8.03e-03 -2.19e-03 -3.48e-03 -7.39e-04 -1.03e-03 -2.37e-03
## 2062 5.89e-03 -5.87e-03 4.63e-03 -1.83e-03 -8.83e-05 -2.81e-04 -4.39e-04
## 2063 -1.21e-02 1.21e-02 -1.08e-03 3.04e-03 1.18e-03 5.41e-04 3.29e-04
## 2064 1.79e-03 -1.79e-03 5.31e-03 -1.10e-03 -3.03e-04 -2.06e-04 1.02e-04
## 2065 -2.58e-04 2.57e-04 5.20e-05 1.06e-05 3.42e-06 7.26e-06 6.04e-05
## 2066 4.55e-03 -4.53e-03 -3.80e-03 1.71e-04 -5.72e-04 -5.66e-05 -1.98e-03
## 2067 7.48e-03 -7.47e-03 6.74e-04 -1.15e-03 -3.99e-04 -2.35e-04 -2.38e-04
## 2068 4.12e-03 -4.11e-03 -3.29e-03 1.02e-04 -2.85e-04 -9.71e-05 -8.78e-04
## 2069 -5.03e-03 4.65e-03 1.80e-02 1.44e-03 5.12e-03 9.39e-04 -3.34e-03
## 2070 -1.36e-03 1.36e-03 2.87e-04 -3.23e-04 -5.02e-05 8.02e-05 9.78e-05
## 2071 6.21e-04 -6.47e-04 3.56e-03 4.70e-05 -1.66e-04 -2.71e-04 1.35e-03
## 2072 -4.52e-03 4.52e-03 1.20e-03 5.26e-06 2.84e-04 1.82e-04 7.74e-04
## 2073 -1.81e-03 1.81e-03 -2.45e-03 1.17e-04 2.11e-04 1.39e-04 5.99e-04
## 2074 -4.09e-04 4.13e-04 -6.85e-04 -1.00e-04 2.57e-05 5.63e-05 -2.09e-05
## 2075 2.88e-03 -2.87e-03 7.53e-03 -2.19e-03 -6.14e-04 -2.80e-04 1.79e-04
## 2076 7.78e-04 -7.72e-04 -1.58e-03 7.97e-05 -1.37e-04 2.41e-05 -5.18e-04
## 2077 1.84e-04 -1.83e-04 4.93e-04 -1.74e-05 -1.72e-05 1.99e-05 1.76e-04
## 2078 -5.73e-03 5.73e-03 -1.34e-03 1.30e-04 4.01e-04 3.05e-04 1.05e-03
## 2079 6.51e-04 -6.55e-04 -1.35e-03 2.37e-05 1.10e-05 -1.24e-04 -5.72e-04
## 2080 2.58e-05 -2.06e-05 -1.02e-03 6.38e-05 -8.82e-05 4.37e-05 -3.73e-04
## 2081 -5.68e-04 5.66e-04 1.97e-04 -9.58e-06 3.19e-05 -3.44e-05 -2.03e-04
## 2082 4.09e-05 -4.67e-05 2.36e-04 -3.29e-05 2.33e-05 -1.18e-04 -4.31e-04
## 2083 -3.69e-04 3.45e-04 -2.31e-03 4.13e-04 -1.70e-04 -1.01e-04 1.73e-03
## 2084 1.83e-04 -1.81e-04 -1.56e-05 6.79e-06 -1.73e-05 3.98e-05 1.86e-04
## 2085 2.10e-03 -2.09e-03 4.10e-04 -3.96e-05 -9.29e-05 -2.41e-05 3.03e-04
## 2086 -7.26e-03 6.72e-03 -2.57e-02 4.53e-03 5.31e-03 1.98e-05 -3.92e-03
## 2087 -3.08e-03 3.06e-03 -1.86e-03 -1.58e-03 1.53e-04 -2.25e-04 -7.13e-05
## 2088 -3.07e-04 3.01e-04 1.82e-04 -3.08e-05 1.53e-04 -1.45e-05 5.76e-04

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## 2089 8.96e-04 -8.91e-04 1.22e-03 -3.61e-05 -2.17e-04 -4.93e-05 -7.35e-04
## 2090 -3.72e-02 3.66e-02 -4.04e-04 -2.37e-03 6.78e-03 7.49e-04 4.24e-03
## 2091 3.40e-03 -3.40e-03 3.30e-03 -1.66e-04 -3.69e-04 -2.30e-04 -1.06e-03
## 2092 -6.82e-03 6.82e-03 -6.57e-04 1.03e-04 5.19e-04 3.28e-04 1.45e-03
## 2093 2.37e-04 -3.20e-04 3.84e-04 4.69e-03 7.48e-04 2.87e-03 4.71e-03
## 2094 5.56e-03 -6.08e-03 -1.81e-02 3.68e-03 4.46e-03 -7.89e-04 -4.06e-03
## 2095 9.35e-03 -9.87e-03 -2.84e-02 4.16e-03 4.49e-03 -7.26e-04 -4.57e-03
## 2096 -7.71e-03 7.72e-03 3.25e-03 -7.04e-04 4.98e-05 3.51e-04 4.96e-04
## 2097 1.59e-04 -1.65e-04 1.64e-03 -9.32e-05 7.11e-05 -6.91e-05 3.41e-04
## 2098 2.66e-02 -2.67e-02 -9.20e-03 3.41e-03 -1.36e-04 -3.51e-05 3.99e-03
## 2099 5.95e-03 -5.96e-03 -1.71e-03 -1.72e-04 -8.34e-05 -4.39e-04 6.52e-04
## 2100 2.75e-03 -2.75e-03 1.02e-03 -5.11e-05 -3.35e-04 -1.32e-04 -1.05e-03
## 2101 4.33e-03 -4.31e-03 -4.81e-03 1.74e-04 -3.29e-04 -5.80e-05 -1.08e-03
## 2102 -5.47e-03 5.50e-03 -6.40e-03 -1.14e-03 -2.37e-04 5.46e-04 2.36e-04
## 2103 2.15e-03 -2.14e-03 1.95e-03 -8.59e-05 -2.98e-04 -1.30e-04 -9.22e-04
## 2104 -1.43e-03 1.42e-03 2.12e-03 1.33e-04 9.92e-05 5.70e-06 9.96e-05
## 2105 3.52e-03 -3.50e-03 9.17e-04 -1.45e-03 -1.45e-05 -6.70e-05 -3.83e-04
## 2106 3.04e-04 -2.96e-04 4.62e-03 -1.34e-03 -3.37e-04 -9.28e-05 1.81e-04
## 2107 2.00e-03 -2.00e-03 -1.41e-03 6.49e-06 3.41e-05 -8.33e-05 2.51e-04
## 2108 7.43e-05 -7.45e-05 -3.75e-05 -2.96e-07 5.26e-07 -3.40e-06 6.91e-06
## 2109 6.20e-03 -6.20e-03 3.23e-03 -2.05e-04 -5.18e-04 -3.66e-04 -1.41e-03
## 2110 -7.58e-04 7.72e-04 -2.57e-03 -5.97e-04 -1.74e-04 1.48e-04 3.58e-05
## 2111 6.60e-04 -6.71e-04 -9.50e-04 1.61e-04 -1.01e-04 -8.88e-05 7.13e-04
## 2112 4.92e-03 -4.96e-03 5.07e-03 -8.29e-05 -3.25e-04 -5.55e-04 1.30e-03
## 2113 2.27e-03 -2.28e-03 4.96e-04 -8.95e-05 4.17e-05 -1.56e-04 3.62e-04
## 2114 2.70e-03 -2.70e-03 4.03e-06 -1.43e-04 -3.27e-05 -8.74e-05 -6.60e-04
## 2115 4.33e-04 -4.26e-04 1.03e-03 -5.12e-04 1.88e-05 -2.66e-06 -7.79e-05
## 2116 -3.99e-03 3.99e-03 -4.84e-03 2.35e-04 4.54e-04 2.93e-04 1.29e-03
## 2117 -4.81e-03 4.81e-03 4.00e-03 -2.42e-03 8.48e-04 -1.90e-04 -3.91e-04
## 2118 4.53e-04 -4.82e-04 7.58e-03 -2.32e-03 2.96e-04 -5.49e-04 -3.62e-05
## 2119 -9.16e-03 9.13e-03 8.82e-03 -3.12e-04 3.86e-04 -2.11e-04 -1.14e-03
## 2120 -4.59e-04 4.60e-04 -1.42e-03 -1.37e-04 2.41e-05 1.07e-05 -3.20e-05
## 2121 7.43e-06 -7.48e-06 8.43e-07 -3.25e-06 4.04e-06 -2.33e-06 -1.43e-05
## 2122 3.11e-03 -3.12e-03 9.03e-04 -2.26e-03 5.41e-04 -4.98e-04 -7.84e-04
## 2123 2.49e-04 -2.49e-04 -8.30e-05 7.84e-07 -1.71e-05 -9.24e-06 -4.88e-05
## 2124 -1.11e-03 1.11e-03 -2.91e-03 8.46e-04 2.38e-04 1.08e-04 -6.92e-05
## 2125 1.18e-03 -1.17e-03 -5.14e-04 -9.76e-06 -1.21e-04 1.90e-05 3.90e-04
## 2126 5.76e-03 -5.75e-03 -8.86e-04 -7.55e-04 -2.94e-04 -1.53e-04 -2.22e-04
## 2127 2.57e-04 -2.69e-04 1.46e-05 6.52e-04 -5.94e-05 -8.55e-05 1.05e-04
## 2128 -3.47e-03 3.48e-03 6.17e-03 -1.31e-03 -6.78e-05 2.13e-04 4.18e-04
## 2129 5.14e-03 -5.18e-03 6.25e-03 -6.43e-04 2.66e-05 -7.81e-04 1.77e-03
## 2130 -3.28e-02 3.29e-02 -6.35e-03 1.15e-03 8.25e-04 3.09e-03 6.08e-03
## 2131 9.25e-03 -9.28e-03 -2.40e-03 -1.74e-04 -1.76e-04 -9.60e-04 -2.63e-03
## 2132 -1.77e-04 1.75e-04 3.05e-05 -1.74e-04 1.06e-05 -3.67e-05 -8.82e-06
## 2133 2.29e-03 -2.29e-03 6.80e-03 -1.41e-03 -3.88e-04 -2.63e-04 1.31e-04
## 2134 -1.46e-02 1.46e-02 8.42e-03 -3.45e-03 5.57e-04 -3.22e-04 5.45e-04
## 2135 -1.03e-02 1.03e-02 1.14e-02 -2.90e-03 -4.10e-04 3.46e-04 9.54e-04
## 2136 -3.76e-03 3.80e-03 7.60e-03 -2.65e-03 2.91e-04 2.42e-04 -6.95e-05
## 2137 -1.24e-03 1.25e-03 1.12e-02 -2.01e-03 -2.18e-04 2.96e-05 4.72e-04
## 2138 1.37e-02 -1.37e-02 -7.80e-03 -1.39e-03 -8.51e-04 -4.34e-04 -7.07e-04
## 2139 -1.72e-02 1.72e-02 -1.45e-02 5.95e-03 1.99e-03 1.08e-03 8.62e-05
## 2140 8.82e-05 -1.31e-04 2.48e-03 3.13e-04 -2.75e-04 -3.39e-04 2.56e-03
## 2141 -1.35e-02 1.34e-02 -2.08e-02 4.78e-03 1.49e-03 1.13e-03 -1.25e-04
## 2142 1.73e-03 -1.72e-03 -4.23e-04 2.88e-05 -2.71e-04 -4.12e-05 -9.29e-04

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## 2143 6.41e-04 -6.24e-04 -2.51e-03 -6.22e-04 4.02e-05 1.16e-04 -2.16e-04
## 2144 4.56e-04 -4.55e-04 -2.21e-04 -8.09e-05 -3.77e-05 -1.39e-05 -2.00e-05
## 2145 1.04e-04 -9.54e-05 7.73e-04 9.27e-06 -2.39e-04 1.43e-05 -8.98e-04
## 2146 2.67e-03 -2.66e-03 -1.42e-03 -6.62e-04 -2.75e-04 -6.86e-05 -1.04e-04
## 2147 1.01e-02 -1.01e-02 -4.17e-03 -1.69e-03 -1.93e-04 -2.33e-04 -8.71e-04
## 2148 2.75e-03 -2.73e-03 -4.34e-03 -4.94e-04 -3.20e-05 4.67e-05 -3.42e-04
## 2149 -2.03e-05 1.53e-05 1.79e-03 9.15e-05 4.52e-05 -5.79e-05 2.78e-05
## 2150 1.68e-02 -1.53e-02 3.20e-04 -8.77e-02 -1.46e-02 -5.45e-02 -8.81e-02
## 2151 9.31e-04 -9.05e-04 -3.72e-04 -1.93e-03 -5.72e-04 5.44e-05 1.02e-04
## 2152 -9.53e-05 9.72e-05 -7.82e-05 -1.23e-04 -3.28e-05 1.35e-05 1.30e-05
## 2153 -2.79e-03 2.79e-03 -4.16e-06 1.47e-04 3.38e-05 9.03e-05 6.82e-04
## 2154 2.46e-05 -2.55e-05 -6.93e-06 9.19e-06 -6.63e-06 -6.90e-06 5.35e-05
## 2155 -2.70e-02 2.70e-02 -9.63e-03 7.84e-04 1.78e-03 1.55e-03 4.42e-03
## 2156 -1.94e-03 1.95e-03 -1.79e-03 -9.87e-05 7.03e-06 1.64e-04 6.87e-05
## 2157 -9.90e-04 1.01e-03 -4.65e-03 -8.20e-04 -1.19e-04 3.80e-04 4.95e-05
## 2158 -3.63e-03 3.63e-03 -5.21e-03 1.25e-03 3.95e-04 2.95e-04 -2.22e-05
## 2159 1.46e-03 -1.45e-03 -5.31e-03 -3.10e-04 -1.84e-04 9.85e-05 -1.48e-04
## 2160 5.30e-04 -5.20e-04 -6.48e-04 -6.86e-04 -2.14e-04 2.43e-05 1.67e-05
## 2161 2.45e-03 -2.49e-03 1.48e-02 -9.22e-04 5.03e-05 -8.07e-04 1.67e-03
## 2162 -3.58e-04 3.80e-04 -5.26e-03 -7.38e-04 -2.53e-04 2.16e-04 -2.40e-05
## 2163 -6.11e-03 6.10e-03 2.79e-03 -1.56e-04 3.14e-04 5.85e-05 1.41e-03
## 2164 -4.44e-04 4.41e-04 2.57e-04 -2.90e-05 3.49e-05 -1.66e-05 2.12e-04
## 2165 8.36e-04 -8.29e-04 -4.10e-04 -3.81e-04 2.91e-06 8.89e-06 -1.17e-04
## 2166 -3.71e-04 3.89e-04 -1.97e-03 -1.04e-03 -3.03e-04 1.30e-04 6.39e-05
## 2167 -2.26e-03 2.30e-03 -9.11e-03 -1.06e-03 -3.31e-04 4.52e-04 2.10e-05
## 2168 4.93e-03 -5.19e-03 -6.86e-02 -3.84e-04 4.92e-03 2.92e-03 -3.47e-04
## 2169 -1.94e-02 1.94e-02 9.13e-03 -2.08e-03 4.83e-05 8.69e-04 1.29e-03
## 2170 4.98e-04 -4.89e-04 -4.69e-04 5.02e-05 -2.09e-04 2.16e-05 -7.89e-04
## 2171 6.02e-03 -5.99e-03 -4.13e-03 -1.49e-03 -6.92e-05 -3.27e-05 -6.55e-04
## 2172 7.30e-03 -7.27e-03 5.80e-03 -2.78e-03 -6.95e-05 -2.93e-04 -6.35e-04
## 2173 2.40e-03 -2.40e-03 -2.70e-04 1.50e-06 -2.57e-04 -8.79e-05 -8.13e-04
## 2174 -1.76e-02 1.77e-02 -1.41e-03 6.86e-03 4.06e-04 2.63e-03 1.46e-03
## 2175 3.58e-03 -3.59e-03 1.99e-03 -3.77e-04 1.82e-04 -3.82e-04 -1.11e-03
## 2176 -7.97e-03 8.54e-03 1.74e-02 -2.55e-03 -7.61e-03 5.80e-04 6.69e-03
## 2177 -1.31e-03 1.35e-03 -3.65e-05 -1.66e-04 -2.57e-04 1.36e-04 2.81e-04
## 2178 2.72e-03 -2.84e-03 3.12e-03 8.12e-04 7.61e-04 -2.87e-05 -7.41e-04
## 2179 -5.72e-02 5.85e-02 6.21e-02 1.11e-02 -1.68e-02 -3.38e-03 -1.32e-03
## 2180 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 2181 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 2182 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 2183 2.23e-02 -2.27e-02 2.37e-03 4.68e-04 3.38e-03 -1.60e-03 -4.11e-03
## 2184 -5.08e-03 5.14e-03 -3.90e-04 -1.95e-03 -4.16e-04 2.23e-04 1.69e-03
## 2185 3.03e-02 -3.07e-02 -1.36e-02 5.10e-03 6.09e-03 -1.47e-04 -4.28e-03
## 2186 -1.70e-03 1.72e-03 4.36e-04 3.69e-04 -8.39e-05 5.67e-05 -4.31e-04
## 2187 1.08e-04 -9.23e-05 -9.23e-04 -4.92e-04 -1.52e-04 5.58e-06 3.49e-04
## 2188 2.40e-03 -2.63e-03 3.27e-03 -1.28e-03 3.61e-03 3.77e-04 2.36e-03
## 2189 -2.36e-03 2.33e-03 7.49e-03 -8.43e-04 2.76e-04 -5.47e-05 1.09e-03
## 2190 2.11e-02 -2.15e-02 8.59e-03 2.26e-03 1.89e-03 -7.41e-04 -2.88e-03
## 2191 -2.37e-03 2.41e-03 -1.70e-03 4.34e-04 -4.35e-04 2.16e-04 4.07e-05
## 2192 -1.63e-03 1.63e-03 -8.75e-04 5.50e-05 1.37e-04 9.68e-05 3.72e-04
## 2193 -1.62e-04 1.61e-04 7.05e-05 -1.55e-06 1.25e-05 5.27e-06 3.77e-05
## 2194 2.56e-02 -2.57e-02 -1.33e-02 -1.44e-04 -6.13e-04 -1.31e-03 3.11e-04
## 2195 7.46e-03 -7.51e-03 -5.21e-03 2.38e-03 2.37e-04 4.81e-04 3.09e-03
## 2196 2.59e-03 -2.58e-03 -1.28e-03 -8.17e-05 -2.64e-05 -4.50e-05 -6.82e-04

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## 2197 3.28e-03 -3.27e-03 -2.89e-03 -7.00e-04 -4.27e-05 -8.70e-06 -3.57e-04
## 2198 1.34e-03 -1.66e-03 -4.46e-02 4.99e-04 3.58e-03 2.56e-03 1.97e-03
## 2199 1.68e-02 -1.68e-02 2.28e-03 -5.40e-05 -7.91e-04 -1.19e-03 1.44e-03
## 2200 5.19e-04 -5.18e-04 -4.20e-04 1.47e-05 -4.44e-05 -1.06e-05 -1.44e-04
## 2201 -6.77e-05 6.72e-05 -1.70e-04 5.46e-06 2.05e-05 5.21e-06 6.90e-05
## 2202 -6.42e-05 5.88e-05 -3.46e-04 -4.85e-05 5.57e-05 -6.99e-05 4.65e-04
## 2203 -2.38e-06 2.47e-06 -2.45e-05 1.40e-06 -1.07e-06 1.04e-06 -5.11e-06
## 2204 -4.53e-04 4.43e-04 4.48e-03 -2.10e-04 8.46e-05 -1.17e-04 4.32e-04
## 2205 2.40e-04 -2.00e-04 4.19e-03 -2.78e-03 1.83e-04 1.49e-04 -3.74e-04
## 2206 5.29e-03 -5.30e-03 -4.18e-03 2.22e-04 -2.49e-04 -2.45e-04 4.36e-04
## 2207 1.62e-03 -1.62e-03 -5.19e-04 2.91e-04 -7.54e-05 -1.04e-04 -3.55e-05
## 2208 4.86e-03 -4.85e-03 -2.12e-03 4.66e-05 -3.76e-04 -1.59e-04 -1.13e-03
## 2209 -4.18e-04 4.19e-04 2.30e-04 1.89e-06 -8.56e-06 1.95e-05 -6.00e-05
## 2210 1.66e-04 -1.67e-04 -2.26e-04 1.65e-05 -1.09e-05 -8.22e-06 4.20e-05
## 2211 1.78e-03 -1.80e-03 3.05e-03 1.84e-05 -1.85e-04 -2.99e-04 1.11e-03
## 2212 -6.75e-03 6.75e-03 -7.86e-03 1.81e-03 6.12e-04 5.17e-04 3.43e-05
## 2213 -2.20e-02 2.21e-02 -3.23e-03 7.93e-04 4.71e-04 2.40e-03 5.52e-03
## 2214 -8.91e-04 9.08e-04 -2.72e-03 1.36e-03 1.71e-06 4.37e-04 1.04e-04
## 2215 -1.19e-02 1.19e-02 -4.71e-03 -1.86e-03 4.68e-04 1.75e-04 2.24e-04
## 2216 1.39e-02 -1.39e-02 -3.51e-03 2.00e-04 -6.44e-04 -8.29e-04 1.07e-03
## 2217 6.36e-03 -6.43e-03 -6.58e-03 -1.10e-04 4.78e-04 1.11e-04 1.31e-04
## 2218 6.20e-03 -6.20e-03 3.23e-03 -2.05e-04 -5.18e-04 -3.66e-04 -1.41e-03
## 2219 4.56e-03 -4.60e-03 -1.38e-03 1.65e-03 1.98e-04 3.31e-04 2.37e-03
## 2220 -5.12e-03 5.17e-03 -6.92e-03 -1.65e-03 -3.96e-04 5.68e-04 2.50e-04
## 2221 -1.37e-02 1.37e-02 1.24e-02 -2.75e-03 -2.62e-04 4.94e-04 1.13e-03
## 2222 -5.03e-03 5.06e-03 5.40e-04 -1.99e-03 -4.13e-04 3.51e-04 4.16e-04
## 2223 8.55e-04 -8.61e-04 1.43e-03 -4.23e-04 -2.19e-05 -1.74e-04 -4.26e-05
## 2224 3.24e-02 -3.25e-02 1.04e-03 -7.69e-04 -5.75e-04 -1.84e-03 4.28e-04
## 2225 -2.78e-02 2.79e-02 5.53e-03 5.29e-04 6.14e-04 2.58e-03 6.48e-03
## 2226 -2.57e-03 2.57e-03 -6.06e-03 1.38e-03 3.96e-04 2.57e-04 -1.01e-04
## 2227 3.49e-03 -3.48e-03 1.29e-03 -6.48e-05 -4.25e-04 -1.67e-04 -1.33e-03
## 2228 -6.04e-04 6.25e-04 -4.26e-03 -6.40e-04 -1.01e-04 3.10e-04 1.89e-05
## 2229 -2.00e-04 2.01e-04 -1.04e-04 1.17e-05 -8.86e-06 1.64e-05 -5.39e-05
## 2230 3.00e-03 -3.39e-03 2.43e-02 -2.88e-03 2.34e-03 -1.96e-04 3.06e-03
## 2231 8.10e-04 -8.07e-04 1.52e-03 -5.18e-04 -1.52e-04 -6.52e-05 3.11e-05
## 2232 -3.73e-03 3.72e-03 1.58e-03 -2.14e-05 2.25e-04 1.34e-04 6.22e-04
## 2233 7.31e-04 -7.49e-04 3.57e-03 -4.14e-05 -1.16e-04 -2.24e-04 8.39e-04
## 2234 8.33e-03 -8.32e-03 -3.43e-03 4.28e-05 -5.05e-04 -3.02e-04 -1.39e-03
## 2235 -2.73e-04 2.71e-04 -4.02e-03 7.44e-04 1.74e-04 1.02e-04 -1.23e-04
## 2236 -2.32e-03 2.32e-03 -2.52e-04 1.89e-05 2.64e-04 9.70e-05 8.32e-04
## 2237 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 2238 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 2239 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 2240 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 2241 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 2242 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 2243 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 2244 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 2245 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 2246 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 2247 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 2248 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 2249 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 2250 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04

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## 2251 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 2252 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 2253 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 2254 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 2255 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 2256 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 2257 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 2258 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 2259 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 2260 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 2261 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 2262 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 2263 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 2264 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 2265 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 2266 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 2267 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 2268 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 2269 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 2270 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 2271 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 2272 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 2273 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 2274 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 2275 8.34e-04 -8.31e-04 -1.70e-04 -2.51e-04 -9.55e-05 -2.77e-05 -2.38e-05
## 2276 4.52e-05 -4.36e-05 8.53e-05 -2.36e-05 1.01e-05 6.84e-06 -1.11e-04
## 2277 -7.17e-04 7.20e-04 -3.73e-04 4.18e-05 -3.17e-05 5.87e-05 -1.93e-04
## 2278 -1.10e-04 1.10e-04 -4.65e-05 6.81e-06 2.12e-06 5.55e-06 1.93e-05
## 2279 -1.04e-03 1.02e-03 4.71e-03 5.44e-04 1.27e-04 6.36e-05 5.74e-04
## 2280 2.32e-04 -2.31e-04 -1.47e-04 4.12e-06 -1.69e-05 -6.42e-06 -5.15e-05
## 2281 1.83e-03 -1.83e-03 6.78e-04 -3.40e-05 -2.23e-04 -8.76e-05 -6.99e-04
## 2282 -9.27e-04 9.28e-04 1.26e-03 -3.02e-05 -2.00e-05 2.18e-05 -1.13e-04
## 2283 1.06e-03 -1.06e-03 3.34e-04 -2.76e-05 -7.53e-05 -5.85e-05 -1.97e-04
## 2284 -3.41e-04 3.42e-04 1.70e-04 -2.52e-05 7.20e-06 1.78e-05 2.25e-05
## 2285 -2.83e-03 2.85e-03 -3.82e-03 -9.10e-04 -2.18e-04 3.13e-04 1.38e-04
## 2286 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 2287 -1.23e-02 1.18e-02 9.33e-03 -2.83e-03 5.12e-03 -6.64e-04 2.91e-03
## 2288 2.41e-03 -2.41e-03 -1.88e-04 -2.68e-05 -9.20e-05 -6.67e-05 1.04e-04
## 2289 3.34e-02 -3.41e-02 2.97e-03 2.95e-03 4.67e-03 -3.12e-03 -5.76e-03
## 2290 -1.72e-03 1.73e-03 2.40e-03 -3.45e-05 -1.59e-04 6.07e-05 -6.81e-04
## 2291 -5.07e-02 5.03e-02 -5.35e-03 4.85e-03 4.79e-03 3.58e-03 -1.93e-04
## 2292 -2.40e-02 2.37e-02 9.75e-03 -1.35e-03 3.22e-03 4.53e-04 2.45e-03
## 2293 5.74e-03 -5.75e-03 -5.07e-03 2.32e-04 -2.48e-04 -2.30e-04 2.69e-04
## 2294 -2.58e-02 2.57e-02 1.35e-02 -8.28e-04 2.09e-03 7.05e-04 2.10e-03
## 2295 -2.25e-03 2.25e-03 8.55e-04 -1.67e-05 9.72e-05 -1.24e-05 -3.02e-04
## 2296 -2.01e-02 2.16e-02 -4.57e-02 9.42e-03 -1.17e-02 5.13e-03 -5.66e-03
## 2297 -1.15e-03 1.15e-03 2.72e-04 -5.84e-06 5.58e-05 -2.62e-05 -2.56e-04
## 2298 4.18e-03 -4.20e-03 2.32e-03 -2.49e-04 -6.83e-05 -6.11e-04 -1.43e-03
## 2299 -1.47e-03 1.45e-03 5.47e-03 -2.01e-03 8.62e-05 -5.37e-04 1.24e-05
## 2300 -9.35e-03 9.71e-03 1.66e-03 -1.86e-03 -2.75e-03 1.12e-03 2.73e-03
## 2301 -3.84e-03 3.81e-03 6.16e-03 -1.86e-03 1.59e-04 -3.95e-04 1.54e-04
## 2302 1.90e-04 -1.82e-04 -1.06e-03 7.08e-04 -2.22e-05 1.90e-04 3.41e-05
## 2303 -2.52e-03 2.52e-03 -3.22e-03 8.21e-04 2.66e-04 1.95e-04 -4.16e-06
## 2304 5.71e-04 -5.77e-04 -4.68e-03 -1.04e-03 2.54e-05 -2.15e-04 -2.59e-04

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## 2305  1.40e-03 -1.41e-03  8.61e-04 -7.89e-05  1.69e-05 -1.10e-04  2.06e-04
## 2306  4.34e-03 -4.34e-03  2.06e-03 -1.43e-04 -3.19e-04 -2.58e-04 -8.24e-04
## 2307 -1.58e-02  1.59e-02  4.45e-03 -2.08e-03 -1.01e-04  8.19e-04  1.03e-03
## 2308 -4.08e-03  4.07e-03  1.74e-03  8.65e-04  6.40e-05  7.32e-05  3.86e-04
## 2309 -1.85e-02  1.86e-02  1.35e-02 -2.91e-03 -1.62e-04  7.28e-04  1.40e-03
## 2310  4.92e-03 -4.92e-03  2.56e-03 -1.48e-04 -4.85e-04 -2.77e-04 -1.41e-03
## 2311  1.90e-03 -1.87e-03 -9.15e-03 -1.16e-03 -4.76e-04  2.33e-04 -1.75e-04
## 2312 -1.47e-04  1.49e-04  7.89e-04 -1.57e-05 -8.43e-05  1.00e-06 -3.15e-04
## 2313 -6.00e-03  5.99e-03  1.71e-03 -2.01e-05  4.83e-04  2.18e-04  1.45e-03
## 2314  3.36e-03 -3.35e-03 -7.83e-04 -1.13e-04 -5.64e-05 -1.04e-04 -6.73e-04
## 2315  4.78e-03 -4.77e-03 -1.79e-03 -1.24e-04 -8.32e-05 -1.33e-04 -9.34e-04
## 2316  6.36e-03 -6.43e-03 -6.58e-03 -1.10e-04  4.78e-04  1.11e-04  1.31e-04
## 2317 -1.37e-02  1.37e-02  1.24e-02 -2.75e-03 -2.62e-04  4.94e-04  1.13e-03
## 2318  8.55e-04 -8.61e-04  1.43e-03 -4.23e-04 -2.19e-05 -1.74e-04 -4.26e-05
## 2319 -2.78e-02  2.79e-02  5.53e-03  5.29e-04  6.14e-04  2.58e-03  6.48e-03
## 2320 -2.00e-04  2.01e-04 -1.04e-04  1.17e-05 -8.86e-06  1.64e-05 -5.39e-05
## 2321  3.00e-03 -3.39e-03  2.43e-02 -2.88e-03  2.34e-03 -1.96e-04  3.06e-03
## 2322  8.33e-03 -8.32e-03 -3.43e-03  4.28e-05 -5.05e-04 -3.02e-04 -1.39e-03
## 2323 -2.73e-04  2.71e-04 -4.02e-03  7.44e-04  1.74e-04  1.02e-04 -1.23e-04
## 2324 -4.71e-02  4.81e-02  2.02e-03 -7.06e-03 -5.17e-03  8.46e-04  7.63e-03
## 2325  1.04e-03 -1.05e-03  1.32e-03 -4.56e-04 -2.68e-05 -1.89e-04 -5.74e-05
## 2326  8.71e-04 -1.19e-03 -4.31e-03  3.31e-03  2.94e-03  1.15e-03 -1.98e-03
## 2327 -7.33e-03  7.34e-03  2.77e-03  7.52e-05  1.64e-04  6.20e-04  1.64e-03
## 2328  3.61e-03 -3.60e-03 -2.64e-03  9.10e-05 -3.17e-04 -8.03e-05 -1.02e-03
## 2329  5.24e-04 -5.26e-04  6.01e-05 -1.48e-04 -1.37e-05 -6.41e-05 -3.71e-05
## 2330 -7.83e-03  7.84e-03  4.20e-03  1.97e-05  1.78e-04  6.04e-04  1.69e-03
## 2331 -7.26e-03  7.26e-03 -2.75e-03  4.58e-04  1.25e-04  3.43e-04  1.42e-03
## 2332 -3.47e-04  3.46e-04 -2.38e-04  1.08e-05  4.56e-05  1.91e-05  1.42e-04
## 2333  3.84e-03 -3.86e-03  4.96e-03 -3.34e-04  3.94e-05 -3.76e-04  6.20e-04
## 2334 -9.15e-03  9.14e-03 -7.51e-03  2.53e-03  8.85e-04  6.01e-04  1.01e-04
## 2335  6.85e-04 -6.88e-04 -2.33e-03  5.24e-04  1.04e-04  8.83e-06 -1.20e-04
## 2336 -9.85e-04  9.69e-04  4.97e-03 -2.50e-04  2.39e-04 -1.28e-04  1.01e-03
## 2337 -5.65e-03  5.67e-03  3.59e-03 -9.61e-04  2.49e-04  2.97e-04  1.89e-04
## 2338  6.32e-02 -6.30e-02 -3.02e-02 -9.76e-04 -4.64e-03 -3.12e-03 -1.59e-03
## 2339  2.06e-03 -2.05e-03  5.12e-03 -5.06e-04  6.64e-05 -1.10e-04 -1.35e-03
## 2340 -5.84e-04  6.13e-04 -3.10e-03 -1.64e-03 -4.77e-04  2.06e-04  1.01e-04
## 2341  2.06e-03 -2.05e-03  5.12e-03 -5.06e-04  6.64e-05 -1.10e-04 -1.35e-03
## 2342  8.85e-04 -8.83e-04  9.50e-04 -4.12e-05 -1.27e-04 -5.68e-05 -3.93e-04
## 2343  3.66e-02 -3.66e-02 -1.78e-02  5.53e-05 -1.58e-03 -1.10e-03  1.45e-04
## 2344  5.77e-05 -5.93e-05 -3.19e-04  1.61e-04  4.02e-05 -1.12e-06 -2.18e-05
## 2345  1.11e-04 -1.14e-04 -8.31e-05 -1.16e-05  1.21e-05 -7.12e-05 -2.77e-04
## 2346  8.10e-03 -8.12e-03 -2.95e-03  1.81e-04 -3.87e-04 -4.72e-04  7.40e-04
## 2347 -3.80e-03  3.79e-03  9.88e-04 -9.71e-04  1.51e-04 -8.27e-05  1.01e-04
## 2348  1.54e-05 -1.58e-05  4.81e-05 -4.15e-06  7.79e-06 -3.69e-06  3.31e-05
## 2349 -8.90e-03  8.89e-03  3.45e-02  2.74e-03  1.05e-04  5.54e-04  1.63e-03
## 2350  3.70e-03 -3.71e-03 -5.25e-03  1.10e-04 -4.31e-05 -3.41e-04 -1.46e-03
## 2351  1.02e-04 -1.08e-04  1.28e-04  2.87e-05  8.05e-05  1.09e-05 -6.92e-05
## 2352 -1.87e-02  1.87e-02  7.06e-04  5.43e-03 -9.11e-04  1.70e-03  2.46e-03
## 2353 -2.46e-03  2.47e-03 -5.31e-03 -3.94e-04 -9.91e-05  3.14e-04  5.00e-05
## 2354  1.77e-03 -1.76e-03 -1.77e-03 -2.77e-04 -1.05e-04  1.68e-05 -9.06e-05
## 2355  2.09e-04 -1.98e-04  4.35e-04 -9.25e-04 -2.61e-04  2.01e-05  7.23e-05
## 2356  1.23e-03 -1.21e-03 -2.37e-03 -4.16e-04  3.35e-06  5.66e-05 -2.01e-04
## 2357 -7.31e-04  7.26e-04  6.15e-04  2.68e-04  1.01e-06 -9.27e-06  9.86e-05
## 2358 -2.77e-03  2.78e-03  1.83e-04  7.88e-05  5.10e-05  3.15e-04  8.27e-04

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## 2359 -1.04e-02 1.05e-02 -1.51e-02 3.91e-03 2.94e-04 1.76e-03 4.57e-04
## 2360 5.15e-03 -5.16e-03 -5.90e-03 1.53e-03 -1.28e-05 -1.00e-04 -1.58e-03
## 2361 3.55e-03 -3.54e-03 -2.96e-03 7.94e-04 -1.73e-04 -1.18e-04 -1.07e-03
## 2362 1.29e-03 -1.29e-03 1.49e-04 -4.44e-05 -2.76e-05 -1.39e-04 -3.21e-04
## 2363 -2.22e-03 2.23e-03 1.89e-03 -7.40e-04 -4.89e-06 6.12e-05 7.66e-04
## 2364 -9.78e-03 9.76e-03 7.83e-03 -2.17e-03 3.61e-04 -2.17e-04 4.38e-04
## 2365 -1.65e-02 1.65e-02 -2.88e-03 3.03e-04 1.28e-03 8.26e-04 3.54e-03
## 2366 -1.19e-02 1.19e-02 -1.20e-03 1.51e-04 1.06e-03 5.46e-04 3.13e-03
## 2367 -1.61e-02 1.61e-02 -3.69e-03 3.33e-04 1.26e-03 8.30e-04 3.49e-03
## 2368 -5.88e-03 5.90e-03 5.18e-03 -1.81e-03 -2.92e-04 2.47e-04 5.32e-04
## 2369 1.43e-02 -1.44e-02 -2.61e-03 7.19e-04 -1.01e-03 -1.23e-03 4.40e-03
## 2370 -1.44e-03 1.43e-03 -4.17e-04 2.92e-05 6.88e-05 -4.20e-07 -2.94e-04
## 2371 1.40e-03 -1.37e-03 -1.71e-03 -1.81e-03 -5.66e-04 6.43e-05 4.41e-05
## 2372 2.00e-03 -1.99e-03 -1.57e-03 -4.14e-04 -1.88e-04 -3.99e-05 -9.43e-05
## 2373 -9.10e-03 9.10e-03 2.29e-04 9.03e-05 6.73e-04 4.10e-04 1.89e-03
## 2374 -4.17e-02 4.15e-02 -1.51e-02 3.11e-03 5.15e-03 3.53e-03 -1.36e-03
## 2375 4.48e-03 -4.49e-03 -3.03e-04 -1.06e-04 -1.07e-04 -4.03e-04 -9.10e-04
## 2376 -1.27e-03 1.29e-03 -2.30e-03 -7.76e-04 -2.07e-04 1.77e-04 8.04e-05
## 2377 -6.24e-04 6.26e-04 1.42e-04 1.10e-05 1.38e-05 5.72e-05 1.45e-04
## 2378 -5.99e-04 5.90e-04 -5.84e-04 -6.14e-06 7.32e-05 -1.78e-04 -8.84e-04
## 2379 -2.71e-03 2.71e-03 -1.35e-03 8.70e-05 2.26e-04 1.59e-04 6.15e-04
## 2380 9.90e-03 -9.92e-03 -3.02e-03 -1.37e-04 -2.21e-04 -8.71e-04 -2.26e-03
## 2381 -1.48e-03 1.47e-03 1.18e-03 6.84e-08 8.60e-05 -1.88e-02 1.02e-04
## 2382 3.86e-06 -3.59e-06 -2.95e-05 2.42e-05 -6.94e-07 6.50e-06 1.47e-06
## 2383 9.94e-03 -9.97e-03 1.51e-04 -2.94e-04 -2.15e-04 -1.02e-03 -2.42e-03
## 2384 -1.39e-03 1.39e-03 8.79e-04 3.66e-04 3.35e-05 1.46e-04 1.24e-04
## 2385 5.56e-04 -5.56e-04 -6.62e-04 1.55e-05 -1.23e-05 -3.06e-05 -1.21e-04
## 2386 -9.04e-03 9.03e-03 9.64e-03 -2.51e-03 9.48e-04 -1.13e-04 -3.46e-05
## 2387 -2.31e-05 1.58e-05 4.87e-04 -4.78e-05 3.05e-05 -1.46e-04 -5.20e-04
## 2388 -2.58e-03 2.57e-03 8.49e-05 -1.12e-03 1.17e-04 -1.64e-04 5.87e-06
## 2389 1.18e-03 -1.19e-03 -3.49e-04 -6.84e-04 -1.97e-05 -2.26e-04 -1.33e-04
## 2390 1.51e-03 -1.51e-03 -4.83e-04 2.11e-04 -3.52e-04 6.92e-05 9.06e-04
## 2391 2.20e-03 -2.19e-03 6.62e-04 -5.75e-05 -9.13e-05 -5.98e-05 2.11e-04
## 2392 -1.10e-03 1.11e-03 -3.51e-04 4.89e-05 -2.20e-05 7.91e-05 -1.86e-04
## 2393 -7.95e-03 7.93e-03 5.10e-03 -1.84e-03 3.00e-04 -1.75e-04 3.14e-04
## 2394 5.34e-03 -5.33e-03 5.27e-03 -5.43e-04 -6.23e-05 -3.08e-04 -1.31e-03
## 2395 -7.45e-03 7.36e-03 5.05e-02 -7.18e-04 5.39e-04 -1.11e-03 1.39e-03
## 2396 -5.15e-03 5.14e-03 1.30e-04 5.11e-05 3.81e-04 2.32e-04 1.07e-03
## 2397 3.22e-04 -3.21e-04 7.59e-04 -1.73e-04 -4.95e-05 -3.22e-05 1.27e-05
## 2398 7.57e-03 -7.57e-03 1.74e-03 -1.57e-04 -5.94e-04 -3.90e-04 -1.64e-03
## 2399 2.92e-03 -2.94e-03 1.75e-03 2.92e-05 -2.03e-04 -3.07e-04 8.69e-04
## 2400 1.13e-04 -1.21e-04 1.25e-03 -8.80e-05 1.39e-04 -6.76e-05 5.91e-04
## 2401 2.97e-03 -2.94e-03 6.95e-05 -1.74e-03 3.15e-05 2.27e-05 -4.36e-04
## 2402 -2.30e-02 2.29e-02 6.59e-02 9.75e-04 3.44e-04 -1.03e-03 3.21e-03
## 2403 1.86e-03 -1.90e-03 1.47e-02 3.47e-04 -1.74e-04 -6.30e-04 4.33e-04
## 2404 1.84e-04 -1.80e-04 -6.47e-04 -1.16e-04 6.28e-06 2.40e-05 -4.85e-05
## 2405 5.53e-03 -5.67e-03 -1.68e-03 6.87e-04 9.35e-04 -4.90e-04 -1.12e-03
## 2406 4.82e-04 -4.79e-04 -2.66e-04 2.16e-04 -3.12e-04 1.15e-04 9.39e-04
## 2407 -1.92e-02 1.93e-02 3.44e-03 3.85e-04 4.23e-04 1.80e-03 4.50e-03
## 2408 1.01e-03 -1.02e-03 8.46e-04 -3.84e-04 -2.62e-05 -1.61e-04 -6.17e-05
## 2409 1.90e-04 -1.90e-04 -1.41e-04 -6.16e-06 6.46e-06 -1.17e-05 -5.28e-05
## 2410 5.28e-03 -5.28e-03 2.16e-03 1.19e-04 -6.23e-04 -1.43e-04 1.25e-03
## 2411 -6.95e-03 6.96e-03 5.58e-03 -7.36e-05 1.62e-04 4.50e-04 1.41e-03
## 2412 3.63e-03 -3.63e-03 -1.70e-03 -2.10e-05 2.78e-05 -1.70e-04 3.49e-04

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## 2413  1.46e-04 -1.45e-04 -2.04e-05 -4.98e-05 -1.05e-06 -1.93e-06 -1.59e-05
## 2414  3.49e-03 -3.48e-03  1.29e-03 -6.48e-05 -4.25e-04 -1.67e-04 -1.33e-03
## 2415  8.31e-04 -8.42e-04  3.30e-04  7.74e-05 -9.58e-05 -1.21e-04  6.05e-04
## 2416 -8.16e-03  8.10e-03  1.92e-02  1.79e-03  9.34e-04 -2.34e-04  6.22e-04
## 2417  3.46e-03 -3.48e-03 -3.71e-04  1.37e-03  2.84e-04 -2.41e-04 -2.86e-04
## 2418  2.84e-04 -2.83e-04 -3.62e-04 -7.29e-05 -3.22e-05 -7.61e-07 -1.50e-05
## 2419 -9.91e-04  1.00e-03  4.03e-03 -1.39e-03 -3.21e-04 -2.63e-06  2.37e-04
## 2420 -3.99e-03  3.99e-03  3.18e-03 -8.21e-04 -8.70e-05  1.58e-04  3.22e-04
## 2421  1.38e-02 -1.38e-02  2.68e-03 -2.66e-04 -1.08e-03 -7.01e-04 -2.98e-03
## 2422 -6.13e-04  6.10e-04  7.80e-04  1.57e-04  6.94e-05  1.64e-06  3.23e-05
## 2423  7.09e-04 -7.07e-04 -3.77e-04 -1.76e-04 -7.31e-05 -1.82e-05 -2.78e-05
## 2424  6.61e-04 -6.66e-04  1.38e-03 -8.67e-05  3.15e-05 -8.44e-05  2.19e-04
## 2425 -3.54e-04  3.54e-04 -1.90e-04  1.19e-05  2.97e-05  2.10e-05  8.07e-05
## 2426 -4.19e-04  3.48e-04 -7.31e-03  4.86e-03 -3.19e-04 -2.61e-04  6.53e-04
## 2427  5.92e-04 -5.95e-04 -7.12e-04  4.51e-06  6.50e-05 -2.60e-05  2.79e-04
## 2428 -1.21e-02  1.21e-02 -3.46e-03  3.00e-04  8.56e-04  6.60e-04  2.24e-03
## 2429  1.24e-03 -1.31e-03  1.81e-02  2.54e-03  8.73e-04 -7.44e-04  8.26e-05
## 2430  5.84e-04 -5.80e-04 -4.02e-04 -2.19e-04 -5.33e-05  2.25e-05 -1.34e-05
## 2431  6.84e-04 -6.79e-04 -4.03e-05 -3.85e-04 -1.28e-04 -1.71e-05 -3.31e-06
## 2432 -1.10e-02  1.10e-02  6.91e-03  1.22e-03  5.53e-04  1.45e-04  5.44e-04
## 2433  1.24e-02 -1.24e-02 -3.27e-03 -1.44e-05 -7.75e-04 -4.96e-04 -2.12e-03
## 2434 -1.17e-03  1.17e-03  2.36e-04  4.81e-05  1.55e-05  3.30e-05  2.74e-04
## 2435  1.13e-03 -1.16e-03  7.84e-03 -4.31e-04  2.11e-04 -3.30e-04  1.16e-03
## 2436 -2.05e-03  2.02e-03  8.58e-03  8.19e-04  3.78e-04 -1.91e-04  1.99e-04
## 2437  7.22e-04 -7.32e-04  2.87e-04  6.73e-05 -8.32e-05 -1.05e-04  5.26e-04
## 2438 -2.85e-03  2.88e-03 -1.96e-03 -1.24e-03  2.05e-04  3.57e-04 -1.55e-04
## 2439  9.89e-03 -9.85e-03 -4.97e-03 -1.99e-03 -1.59e-04 -1.64e-04 -9.41e-04
## 2440 -6.03e-04  5.97e-04  1.08e-03  1.24e-05 -1.35e-05 -2.95e-05  3.46e-04
## 2441  1.79e-02 -1.80e-02  9.38e-03 -3.19e-04 -8.95e-04 -1.50e-03  2.02e-03
## 2442 -1.67e-02  1.66e-02  4.09e-03  3.13e-03  3.11e-04  4.44e-04  1.41e-03
## 2443  3.42e-03 -3.43e-03 -1.94e-03  1.47e-04 -1.86e-04 -2.03e-04  5.25e-04
## 2444  5.77e-04 -5.63e-04 -3.80e-04 -1.06e-03 -3.17e-04  3.14e-05  4.92e-05
## 2445  7.24e-03 -7.25e-03 -5.25e-03 -7.01e-06 -1.42e-04 -3.71e-04  3.02e-04
## 2446  2.48e-03 -2.49e-03 -3.72e-03  2.47e-04 -1.52e-04 -1.04e-04  5.34e-04
## 2447 -1.84e-03  1.86e-03  8.06e-04 -1.04e-03  1.39e-04  1.87e-04 -7.78e-05
## 2448 -6.57e-03  6.56e-03 -2.45e-02  4.69e-03  1.24e-03  8.79e-04 -5.25e-04
## 2449  4.83e-03 -4.87e-03  6.94e-03 -3.05e-03 -1.02e-04 -1.13e-03 -3.38e-04
## 2450  1.41e-03 -1.44e-03  1.05e-02 -2.39e-03 -1.73e-05 -8.55e-04 -1.96e-05
## 2451  1.79e-02 -1.83e-02 -1.11e-02  3.73e-03  2.48e-03  9.16e-05 -3.53e-03
## 2452 -6.61e-03  6.65e-03 -7.75e-03  2.82e-03  1.71e-04  1.17e-03  3.74e-04
## 2453 -3.31e-04  3.35e-04 -3.17e-04  3.54e-05 -5.71e-06  1.02e-04  3.07e-04
## 2454 -1.00e-03  1.00e-03  6.19e-04 -2.03e-05  4.53e-05 -2.30e-05 -1.72e-04
## 2455 -1.33e-03  1.32e-03  5.74e-03 -2.75e-04  2.32e-04 -1.28e-04  9.74e-04
## 2456  2.99e-03 -2.98e-03 -3.26e-03  9.04e-04 -1.14e-04  1.43e-04 -1.33e-04
## 2457 -2.04e-03  2.04e-03  1.01e-03 -2.08e-05  8.21e-05  6.51e-06 -1.72e-04
## 2458  1.43e-02 -1.50e-02  8.75e-03  3.28e-03  5.66e-03 -2.35e-03 -4.99e-03
## 2459  2.26e-03 -2.28e-03  3.65e-03 -1.50e-03 -4.71e-05 -5.54e-04 -1.55e-04
## 2460  5.13e-03 -5.16e-03  1.10e-03 -2.18e-04 -8.97e-05 -6.60e-04 -1.64e-03
## 2461  1.37e-03 -1.39e-03  1.02e-03 -1.30e-04  2.01e-05 -3.96e-04 -1.21e-03
## 2462 -1.04e-02  9.73e-03  3.41e-04  3.85e-03  6.04e-03 -7.04e-04 -3.68e-03
## 2463  3.97e-03 -3.96e-03 -2.66e-03  9.12e-04 -1.49e-04  8.75e-05 -1.61e-04
## 2464  2.59e-04 -2.46e-04 -1.63e-03  1.19e-03 -3.58e-05  3.19e-04  6.39e-05
## 2465 -1.32e-02  1.32e-02  8.05e-03 -2.29e-03  4.78e-04 -8.74e-05  5.87e-04
## 2466  3.71e-05 -4.01e-05  1.76e-03 -5.11e-04  1.24e-04 -1.13e-04 -9.27e-05

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## 2467 -4.12e-03 4.15e-03 1.22e-03 2.38e-03 6.85e-05 7.89e-04 4.62e-04
## 2468 -1.12e-03 1.12e-03 5.87e-04 -2.69e-04 4.31e-05 -2.47e-05 3.98e-05
## 2469 1.52e-03 -1.52e-03 -5.76e-04 -5.90e-05 -1.41e-05 -2.98e-05 -4.14e-04
## 2470 2.04e-03 -2.04e-03 -2.31e-04 6.47e-06 -9.54e-05 -5.72e-05 -3.55e-04
## 2471 -1.08e-03 1.09e-03 3.00e-04 -3.67e-04 6.39e-05 8.93e-05 -8.42e-06
## 2472 -4.70e-03 4.71e-03 -5.24e-04 -4.15e-04 7.49e-06 2.90e-04 2.53e-04
## 2473 -3.29e-03 3.29e-03 -1.01e-03 8.48e-05 2.34e-04 1.81e-04 6.11e-04
## 2474 7.92e-03 -7.89e-03 -6.97e-03 -1.69e-03 -1.03e-04 -2.10e-05 -8.63e-04
## 2475 5.89e-04 -6.07e-04 5.64e-03 4.52e-04 1.71e-04 -2.26e-04 4.30e-05
## 2476 -5.04e-04 5.02e-04 -2.60e-03 5.91e-04 1.53e-04 7.82e-05 -7.26e-05
## 2477 3.36e-03 -3.36e-03 9.28e-04 -8.60e-05 -2.18e-04 -1.86e-04 -5.45e-04
## 2478 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 2479 1.45e-03 -1.45e-03 2.72e-05 -5.54e-05 -1.66e-05 -2.13e-04 -6.06e-04
## 2480 -2.34e-06 2.35e-06 3.77e-06 -1.10e-06 -2.04e-07 6.40e-08 2.75e-07
## 2481 -1.84e-04 1.85e-04 4.42e-05 2.83e-06 4.45e-06 1.52e-05 3.63e-05
## 2482 2.32e-03 -2.32e-03 6.41e-04 -5.93e-05 -1.50e-04 -1.28e-04 -3.76e-04
## 2483 2.19e-03 -2.31e-03 4.86e-03 -8.32e-04 7.45e-04 -3.71e-05 8.85e-04
## 2484 1.67e-02 -1.71e-02 9.33e-03 2.67e-03 2.35e-03 -4.56e-04 -2.90e-03
## 2485 -1.10e-02 1.10e-02 1.07e-02 -3.49e-03 4.28e-04 -5.44e-04 4.39e-04
## 2486 1.91e-02 -1.98e-02 2.73e-02 4.53e-04 7.76e-03 -2.49e-03 -6.65e-03
## 2487 -5.02e-05 4.93e-05 1.81e-04 -1.44e-07 -3.16e-06 -6.85e-06 4.81e-05
## 2488 2.94e-04 -2.97e-04 -1.28e-03 3.11e-05 1.01e-04 1.45e-06 3.75e-04
## 2489 -9.31e-03 9.34e-03 9.35e-03 -2.51e-03 4.62e-04 4.74e-04 2.53e-04
## 2490 -4.48e-03 4.49e-03 4.81e-03 -8.38e-05 7.97e-05 3.51e-04 1.32e-03
## 2491 5.37e-03 -5.37e-03 2.36e-03 -1.69e-04 -3.92e-04 -3.15e-04 -1.02e-03
## 2492 1.59e-05 -1.59e-05 -3.80e-06 -1.37e-08 -1.12e-06 -6.28e-07 -3.17e-06
## 2493 3.52e-03 -3.51e-03 5.37e-03 -2.05e-03 -6.16e-04 -2.55e-04 9.52e-05
## 2494 -2.10e-03 1.56e-03 -8.16e-05 3.04e-02 5.13e-03 1.86e-02 3.04e-02
## 2495 1.72e-03 -1.72e-03 -3.66e-03 2.86e-04 -1.44e-04 -8.16e-05 7.30e-04
## 2496 1.82e-02 -1.82e-02 -1.16e-02 1.47e-04 -8.13e-04 -4.47e-04 1.75e-04
## 2497 5.68e-03 -5.62e-03 -1.15e-03 -3.00e-03 4.24e-05 5.09e-05 -8.16e-04
## 2498 1.38e-02 -1.38e-02 -1.11e-03 -2.63e-04 -2.08e-04 -7.44e-04 2.75e-04
## 2499 -5.78e-03 5.83e-03 -7.81e-03 -1.86e-03 -4.47e-04 6.41e-04 2.83e-04
## 2500 5.51e-03 -5.33e-03 3.70e-03 1.51e-03 -2.78e-03 -1.05e-03 -9.37e-04
## 2501 -1.16e-02 1.16e-02 1.44e-02 -2.11e-03 -1.20e-04 2.88e-04 1.01e-03
## 2502 -1.16e-02 1.16e-02 1.44e-02 -2.11e-03 -1.20e-04 2.88e-04 1.01e-03
## 2503 -7.08e-04 7.09e-04 4.80e-04 -4.23e-06 2.30e-06 2.75e-05 -3.35e-05
## 2504 -2.54e-02 2.63e-02 -4.04e-02 6.09e-03 -4.55e-03 1.06e-03 -5.53e-03
## 2505 -1.47e-03 1.47e-03 2.70e-03 -7.12e-05 -7.55e-05 2.24e-05 -3.28e-04
## 2506 1.18e-03 -1.18e-03 1.73e-03 -5.01e-04 -1.55e-04 -9.22e-05 1.57e-05
## 2507 -7.53e-04 7.39e-04 2.71e-03 -2.15e-06 -4.73e-05 -1.03e-04 7.22e-04
## 2508 -1.02e-04 1.02e-04 -2.66e-05 4.21e-05 4.21e-07 1.95e-06 1.11e-05
## 2509 -1.83e-04 1.82e-04 -1.81e-04 7.89e-06 2.58e-05 1.14e-05 7.98e-05
## 2510 8.85e-04 -8.83e-04 9.50e-04 -4.12e-05 -1.27e-04 -5.68e-05 -3.93e-04
## 2511 -1.19e-03 1.19e-03 3.95e-03 -8.36e-04 -1.60e-04 -1.64e-05 2.01e-04
## 2512 2.36e-02 -2.37e-02 3.53e-02 1.40e-03 1.15e-04 -2.42e-03 -5.91e-04
## 2513 -7.24e-04 7.56e-04 6.19e-03 -2.54e-03 1.86e-04 1.09e-04 -2.26e-04
## 2514 -3.84e-03 3.85e-03 4.28e-03 -1.08e-03 -1.52e-04 1.28e-04 3.56e-04
## 2515 -3.84e-03 3.85e-03 4.28e-03 -1.08e-03 -1.52e-04 1.28e-04 3.56e-04
## 2516 1.44e-03 -1.45e-03 2.91e-06 7.00e-05 -2.02e-05 -8.14e-05 -7.61e-05
## 2517 5.34e-04 -5.29e-04 2.75e-04 -8.31e-05 1.95e-05 1.31e-06 -3.74e-04
## 2518 3.57e-04 -3.67e-04 -2.56e-03 2.55e-04 -9.69e-05 -3.62e-05 7.78e-04
## 2519 2.40e-02 -2.40e-02 -1.44e-02 -3.52e-05 -5.75e-04 -1.15e-03 1.81e-04
## 2520 6.05e-03 -6.05e-03 -1.99e-03 -5.83e-05 -2.99e-05 -2.94e-04 3.12e-04

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## 2521 -1.11e-03 1.13e-03 -7.16e-04 -8.69e-04 1.10e-04 1.80e-04 -1.27e-04
## 2522 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 2523 4.96e-03 -4.99e-03 5.83e-03 -2.12e-03 -1.28e-04 -8.79e-04 -2.80e-04
## 2524 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 2525 1.60e-03 -1.64e-03 -1.53e-03 -3.32e-03 4.28e-05 -9.02e-04 -4.51e-04
## 2526 1.13e-02 -1.13e-02 1.05e-02 -7.66e-04 -4.51e-05 -9.62e-04 1.07e-03
## 2527 -2.20e-03 2.19e-03 -1.38e-03 5.62e-04 2.04e-04 1.34e-04 3.58e-05
## 2528 -9.50e-04 9.38e-04 -4.67e-03 1.73e-03 4.63e-04 1.11e-04 -1.82e-04
## 2529 -3.11e-03 3.15e-03 -5.63e-03 -1.90e-03 -5.08e-04 4.32e-04 1.97e-04
## 2530 -1.58e-02 1.59e-02 4.45e-03 -2.08e-03 -1.01e-04 8.19e-04 1.03e-03
## 2531 5.86e-03 -5.87e-03 -4.63e-03 2.45e-04 -2.75e-04 -2.71e-04 4.82e-04
## 2532 2.05e-02 -2.12e-02 -9.86e-03 3.84e-03 5.23e-03 -2.09e-03 -5.52e-03
## 2533 2.29e-02 -2.36e-02 1.25e-03 2.92e-03 4.54e-03 -2.41e-03 -4.95e-03
## 2534 2.86e-03 -2.88e-03 6.15e-04 -1.39e-04 -2.96e-05 -4.57e-04 -1.27e-03
## 2535 -3.39e-03 3.38e-03 4.03e-03 -9.86e-04 1.27e-04 -1.57e-04 1.64e-04
## 2536 -7.84e-04 7.80e-04 1.42e-03 -3.22e-04 3.03e-05 -6.88e-05 4.19e-05
## 2537 2.26e-03 -2.28e-03 6.05e-03 -1.92e-03 -4.34e-05 -7.03e-04 -1.32e-04
## 2538 8.91e-05 -9.20e-05 -5.07e-05 -1.11e-05 1.09e-05 -6.29e-05 -2.43e-04
## 2539 3.45e-04 -3.77e-04 7.82e-03 -2.45e-03 2.91e-05 -7.75e-04 -4.95e-05
## 2540 2.63e-03 -2.62e-03 -1.09e-03 1.49e-05 -1.03e-04 -2.78e-05 1.72e-04
## 2541 -1.45e-03 1.45e-03 7.82e-04 -1.77e-05 5.79e-05 3.79e-06 -1.16e-04
## 2542 2.89e-02 -2.90e-02 -6.63e-03 1.85e-04 -1.22e-03 -1.62e-03 1.06e-03
## 2543 -4.37e-03 4.38e-03 4.88e-03 -1.23e-03 -1.73e-04 1.46e-04 4.05e-04
## 2544 4.65e-04 -4.63e-04 3.54e-03 -7.31e-04 -1.81e-04 -9.81e-05 1.04e-04
## 2545 8.83e-03 -8.84e-03 -2.71e-03 -1.21e-04 8.98e-05 -4.58e-04 9.81e-04
## 2546 1.28e-04 -1.06e-04 2.23e-03 -1.48e-03 9.74e-05 7.95e-05 -1.99e-04
## 2547 -8.35e-04 8.23e-04 1.37e-03 6.29e-04 1.50e-04 2.68e-02 6.97e-04
## 2548 3.46e-04 -3.46e-04 -1.03e-04 2.85e-05 -6.50e-06 -2.11e-05 -2.19e-05
## 2549 4.03e-04 -3.99e-04 -9.07e-04 -1.28e-04 -5.66e-05 1.22e-05 -2.68e-05
## 2550 1.99e-03 -2.00e-03 -2.69e-03 -4.71e-05 4.58e-05 -1.96e-04 7.86e-04
## 2551 -4.75e-04 4.78e-04 -7.76e-04 2.32e-04 1.22e-05 9.54e-05 2.39e-05
## 2552 -8.41e-03 8.44e-03 -1.42e-03 3.12e-04 1.79e-04 9.26e-04 2.11e-03
## 2553 -1.12e-04 1.13e-04 -1.35e-04 4.83e-05 2.90e-06 2.01e-05 6.31e-06
## 2554 -1.96e-02 1.96e-02 3.42e-02 -1.05e-03 4.25e-04 7.06e-04 4.25e-03
## 2555 2.33e-03 -2.33e-03 -4.07e-03 -3.87e-04 -5.36e-05 -1.43e-04 -2.56e-04
## 2556 -1.02e-02 1.03e-02 1.55e-02 -4.27e-04 2.08e-04 5.20e-04 2.50e-03
## 2557 2.34e-03 -2.33e-03 1.49e-03 -3.39e-05 -4.77e-04 -9.56e-05 -1.62e-03
## 2558 6.86e-03 -6.83e-03 1.66e-03 -2.56e-03 -8.93e-04 -2.97e-04 -9.76e-05
## 2559 7.57e-04 -7.57e-04 2.09e-04 -1.93e-05 -4.90e-05 -4.19e-05 -1.23e-04
## 2560 1.00e-03 -1.01e-03 -1.36e-03 -2.37e-05 2.31e-05 -9.87e-05 3.96e-04
## 2561 4.26e-02 -4.26e-02 -7.33e-03 -5.87e-04 -8.73e-04 -2.14e-03 -1.71e-04
## 2562 -2.26e-03 2.25e-03 -2.88e-03 7.35e-04 2.38e-04 1.74e-04 -3.72e-06
## 2563 -8.03e-03 8.03e-03 -2.93e-03 2.26e-04 5.78e-04 4.55e-04 1.50e-03
## 2564 -6.89e-03 6.89e-03 1.44e-03 4.77e-04 -3.48e-04 5.80e-04 2.22e-03
## 2565 -3.12e-02 3.07e-02 9.68e-03 -2.14e-03 5.12e-03 4.67e-04 3.54e-03
## 2566 -1.75e-04 1.77e-04 -1.90e-04 1.65e-05 9.32e-07 3.75e-05 9.49e-05
## 2567 -1.22e-02 1.23e-02 -7.41e-03 7.59e-04 1.97e-04 1.82e-03 4.23e-03
## 2568 -2.05e-04 1.94e-04 -4.28e-04 9.08e-04 2.56e-04 -1.97e-05 -7.10e-05
## 2569 2.47e-04 -2.61e-04 3.62e-03 5.08e-04 1.74e-04 -1.49e-04 1.65e-05
## 2570 -2.84e-03 2.85e-03 -2.43e-03 4.06e-04 -2.38e-04 3.70e-04 1.18e-03
## 2571 -1.40e-05 1.40e-05 6.10e-06 -8.02e-07 1.56e-06 7.38e-08 -2.81e-06
## 2572 -5.86e-03 5.84e-03 3.11e-03 -2.18e-03 2.46e-04 -3.29e-04 1.30e-04
## 2573 -6.32e-05 3.64e-05 1.36e-03 -2.62e-04 3.34e-04 -6.28e-05 5.52e-05
## 2574 5.61e-03 -5.59e-03 6.49e-03 -2.42e-03 -4.32e-05 -2.63e-04 -4.75e-04

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## 2575 4.49e-02 -4.40e-02 -1.98e-02 4.15e-03 -8.78e-03 -1.83e-04 -5.86e-03
## 2576 1.42e-02 -1.43e-02 4.51e-03 -1.04e-03 3.00e-04 -1.23e-03 -3.11e-03
## 2577 -1.91e-03 1.90e-03 8.20e-03 -2.25e-03 6.18e-04 -4.03e-04 -3.05e-04
## 2578 1.13e-03 -1.14e-03 1.41e-06 -7.81e-05 2.48e-04 -1.11e-04 1.05e-03
## 2579 -1.16e-02 1.13e-02 4.02e-03 -1.06e-03 2.34e-03 6.05e-05 1.52e-03
## 2580 -4.39e-02 4.34e-02 -1.03e-02 4.53e-03 6.47e-03 1.53e-03 -1.82e-03
## 2581 -7.75e-02 7.97e-02 -7.68e-03 -9.89e-03 -1.56e-02 8.31e-03 1.69e-02
## 2582 8.86e-03 -9.25e-03 1.61e-03 1.89e-03 3.02e-03 -1.24e-03 -2.81e-03
## 2583 7.94e-03 -7.30e-03 -4.65e-02 4.77e-03 -4.25e-03 -1.74e-04 -5.77e-03
## 2584 -5.12e-03 5.17e-03 -6.92e-03 -1.65e-03 -3.96e-04 5.68e-04 2.50e-04
## 2585 -1.12e-03 1.11e-03 4.99e-04 3.24e-04 1.08e-05 9.96e-06 1.22e-04
## 2586 3.40e-03 -3.42e-03 1.91e-03 -2.95e-04 -8.45e-07 -4.17e-04 9.11e-04
## 2587 -5.18e-03 5.15e-03 7.28e-04 1.77e-03 3.75e-05 6.89e-05 5.64e-04
## 2588 -6.96e-03 6.95e-03 -1.09e-03 1.34e-04 4.79e-04 3.56e-04 1.27e-03
## 2589 1.51e-03 -1.52e-03 3.42e-03 -2.01e-04 2.93e-05 -1.93e-04 3.43e-04
## 2590 2.10e-03 -2.09e-03 2.80e-03 -9.57e-04 -1.42e-05 -1.05e-04 -1.75e-04
## 2591 -6.92e-03 6.90e-03 3.45e-03 -8.44e-05 5.25e-04 2.15e-04 1.59e-03
## 2592 3.72e-04 -3.72e-04 -1.39e-04 -8.32e-06 -7.31e-06 -1.12e-05 -6.49e-05
## 2593 -7.18e-04 7.51e-04 6.15e-03 -2.52e-03 1.84e-04 1.08e-04 -2.25e-04
## 2594 -6.04e-04 6.25e-04 -4.26e-03 -6.40e-04 -1.01e-04 3.10e-04 1.89e-05
## 2595 -4.02e-04 4.09e-04 -1.44e-03 9.27e-05 -8.14e-05 7.98e-05 -3.95e-04
## 2596 -3.25e-03 3.25e-03 8.07e-04 -2.97e-04 1.30e-04 1.84e-04 1.15e-04
## 2597 2.00e-03 -1.99e-03 4.70e-05 -1.17e-03 2.13e-05 1.53e-05 -2.94e-04
## 2598 -1.33e-02 1.33e-02 -3.94e-02 8.17e-03 2.25e-03 1.53e-03 -7.60e-04
## 2599 -7.11e-03 6.93e-03 1.72e-03 -1.62e-03 2.67e-03 9.39e-04 1.09e-03
## 2600 2.69e-04 -2.64e-04 -1.29e-03 -1.64e-04 -6.73e-05 3.30e-05 -2.47e-05
## 2601 -2.95e-03 2.95e-03 -1.28e-03 9.22e-05 2.15e-04 1.73e-04 5.58e-04
## 2602 -1.36e-04 1.39e-04 1.96e-04 -3.33e-05 2.09e-05 1.83e-05 -1.47e-04
## 2603 7.89e-04 -7.91e-04 -3.14e-04 -9.65e-06 1.89e-05 -4.09e-05 1.28e-04
## 2604 4.45e-03 -4.46e-03 -3.51e-03 1.86e-04 -2.09e-04 -2.06e-04 3.66e-04
## 2605 -2.01e-03 2.00e-03 2.82e-04 6.88e-04 1.46e-05 2.67e-05 2.19e-04
## 2606 -1.35e-02 1.34e-02 -8.96e-03 2.68e-03 3.08e-04 7.50e-04 7.89e-04
## 2607 -2.36e-03 2.37e-03 -3.68e-04 -6.07e-04 -1.09e-04 1.68e-04 1.57e-04
## 2608 2.49e-05 -2.35e-05 5.18e-05 -1.10e-04 -3.11e-05 2.39e-06 8.61e-06
## 2609 -1.72e-02 1.72e-02 6.45e-03 3.85e-04 3.38e-04 5.16e-04 3.00e-03
## 2610 1.18e-03 -1.18e-03 5.56e-04 -2.14e-04 -2.74e-05 -6.04e-05 -7.28e-05
## 2611 1.14e-02 -1.19e-02 9.96e-03 3.24e-03 2.94e-03 -9.24e-05 -2.97e-03
## 2612 -8.04e-03 8.07e-03 2.06e-03 -1.37e-03 -1.40e-04 4.37e-04 5.42e-04
## 2613 -1.01e-02 1.01e-02 -2.39e-02 5.45e-03 1.56e-03 1.01e-03 -3.99e-04
## 2614 6.49e-03 -6.48e-03 1.49e-03 -1.34e-04 -5.09e-04 -3.34e-04 -1.41e-03
## 2615 -8.95e-03 8.94e-03 -4.65e-03 2.69e-04 8.81e-04 5.04e-04 2.56e-03
## 2616 -5.54e-03 5.57e-03 2.44e-03 -1.80e-03 3.16e-04 4.19e-04 -1.90e-07
## 2617 -1.19e-02 1.24e-02 -3.31e-02 3.99e-03 -2.82e-03 7.12e-04 -3.67e-03
## 2618 1.03e-03 -1.04e-03 -2.37e-04 -2.86e-05 6.51e-05 -6.57e-05 3.30e-04
## 2619 -4.57e-03 4.59e-03 -7.13e-04 -1.18e-03 -2.12e-04 3.26e-04 3.04e-04
## 2620 1.67e-03 -1.64e-03 1.17e-03 2.84e-05 -1.92e-04 4.60e-04 2.26e-03
## 2621 -3.10e-04 3.09e-04 -2.12e-04 1.14e-05 1.57e-05 8.61e-07 -7.61e-05
## 2622 -1.13e-03 1.13e-03 -9.02e-04 5.01e-05 5.42e-05 2.13e-05 -2.23e-04
## 2623 4.42e-04 -4.34e-04 -1.77e-02 -9.89e-04 7.32e-05 2.21e-05 -6.07e-04
## 2624 1.34e-02 -1.34e-02 -2.15e-03 7.79e-04 -4.63e-04 -4.09e-04 -5.88e-04
## 2625 1.47e-04 -1.47e-04 -1.86e-04 4.66e-06 -3.29e-06 -7.52e-06 -3.11e-05
## 2626 5.53e-03 -5.52e-03 -2.92e-03 -1.23e-04 -8.33e-05 -1.18e-04 -1.20e-03
## 2627 3.19e-03 -3.19e-03 8.56e-04 -7.67e-05 -2.25e-04 -1.72e-04 -5.89e-04
## 2628 -8.38e-04 8.24e-04 4.23e-03 -2.13e-04 2.03e-04 -1.09e-04 8.55e-04

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## 2629 -2.30e-03 2.29e-03 -2.09e-03 9.35e-05 1.34e-04 -5.17e-05 -8.67e-04
## 2630 -1.35e-02 1.35e-02 8.65e-03 -3.14e-03 5.11e-04 -2.98e-04 5.33e-04
## 2631 -1.34e-03 1.35e-03 2.93e-03 -6.50e-05 -1.20e-05 2.05e-04 9.93e-04
## 2632 -1.33e-03 1.33e-03 1.54e-03 -1.97e-05 1.13e-05 1.54e-04 6.04e-04
## 2633 -7.30e-03 7.29e-03 -4.45e-03 -2.26e-03 3.23e-04 -1.54e-04 -2.01e-05
## 2634 4.10e-04 -4.08e-04 1.90e-03 4.16e-04 -3.17e-05 5.50e-05 7.58e-05
## 2635 8.83e-03 -8.84e-03 -2.71e-03 -1.21e-04 8.98e-05 -4.58e-04 9.81e-04
## 2636 4.22e-02 -4.23e-02 4.98e-03 -1.15e-03 -8.33e-04 -2.48e-03 3.39e-04
## 2637 -3.27e-04 3.44e-04 -1.74e-03 -9.18e-04 -2.68e-04 1.15e-04 5.65e-05
## 2638 2.23e-03 -2.22e-03 4.16e-03 -1.06e-03 -3.15e-04 -1.96e-04 5.59e-05
## 2639 5.35e-03 -5.37e-03 -5.85e-04 1.61e-04 -3.23e-04 -4.14e-04 1.12e-03
## 2640 -3.11e-03 3.15e-03 -5.63e-03 -1.90e-03 -5.08e-04 4.32e-04 1.97e-04
## 2641 -9.31e-04 9.28e-04 2.39e-04 1.92e-04 8.22e-05 3.37e-05 3.46e-05
## 2642 1.36e-03 -1.36e-03 -1.17e-03 1.07e-04 -3.00e-05 -5.36e-05 -9.93e-05
## 2643 1.03e-03 -1.05e-03 1.35e-03 1.96e-05 -9.98e-05 -1.55e-04 5.72e-04
## 2644 2.06e-02 -2.06e-02 -8.80e-04 -2.50e-03 -1.01e-03 -6.68e-04 -7.73e-04
## 2645 5.69e-03 -5.69e-03 -4.56e-03 -3.72e-06 -9.57e-05 -3.02e-04 3.58e-04
## 2646 7.50e-04 -7.63e-04 2.84e-03 -2.42e-04 4.92e-05 -2.46e-04 7.42e-04
## 2647 -4.32e-02 4.28e-02 1.11e-02 -3.44e-03 6.86e-03 3.35e-03 3.90e-03
## 2648 6.02e-03 -5.99e-03 4.78e-03 -2.30e-03 -5.73e-05 -2.42e-04 -5.24e-04
## 2649 -1.31e-03 1.30e-03 -4.12e-03 9.26e-04 -3.11e-06 1.09e-04 9.45e-05
## 2650 -2.03e-05 4.04e-05 -1.05e-03 -9.77e-04 8.22e-05 1.42e-04 -2.04e-04
## 2651 9.34e-04 -9.27e-04 -2.00e-03 -2.03e-04 -5.17e-06 3.73e-05 -1.39e-04
## 2652 5.11e-03 -5.13e-03 -1.31e-03 -2.00e-04 -3.58e-05 -4.39e-04 8.86e-04
## 2653 1.38e-04 -1.35e-04 -1.85e-04 -1.58e-04 -2.94e-05 2.84e-05 6.19e-06
## 2654 -1.76e-03 1.73e-03 1.45e-03 1.73e-03 -8.15e-05 -1.40e-04 4.29e-04
## 2655 -1.11e-04 1.01e-04 2.64e-03 2.18e-04 -2.80e-05 -1.05e-04 1.25e-04
## 2656 -4.97e-02 4.95e-02 8.31e-02 3.75e-03 9.54e-04 -4.35e-04 5.41e-03
## 2657 1.72e-03 -1.71e-03 2.02e-03 -6.72e-05 -1.29e-04 1.45e-04 1.13e-03
## 2658 4.34e-03 -4.34e-03 2.14e-03 -1.46e-04 -3.20e-04 -2.60e-04 -8.27e-04
## 2659 8.31e-03 -8.34e-03 -2.24e-03 2.08e-04 -4.35e-04 -5.42e-04 1.12e-03
## 2660 4.72e-03 -4.69e-03 -6.79e-03 -1.01e-03 -4.58e-05 7.63e-05 -5.97e-04
## 2661 -2.67e-03 2.66e-03 4.03e-04 1.41e-04 2.01e-05 6.34e-05 7.67e-04
## 2662 5.47e-04 -5.52e-04 -2.02e-04 6.47e-04 -7.76e-06 2.95e-04 9.91e-04
## 2663 3.23e-03 -3.23e-03 -2.79e-03 1.28e-04 -1.40e-04 -1.31e-04 1.56e-04
## 2664 2.33e-02 -2.34e-02 -3.52e-03 -3.77e-04 -3.13e-04 -1.22e-03 5.65e-04
## 2665 1.90e-03 -1.91e-03 -1.93e-03 1.29e-04 -1.07e-04 -9.45e-05 3.24e-04
## 2666 3.14e-03 -3.15e-03 6.88e-04 -1.24e-04 5.78e-05 -2.15e-04 5.02e-04
## 2667 -6.65e-04 6.95e-04 5.69e-03 -2.33e-03 1.71e-04 1.00e-04 -2.08e-04
## 2668 5.24e-03 -5.25e-03 -5.39e-03 2.38e-04 -2.20e-04 -1.84e-04 1.81e-04
## 2669 3.81e-04 -3.79e-04 -2.24e-05 -2.15e-04 -7.11e-05 -9.52e-06 -1.84e-06
## 2670 2.48e-03 -2.47e-03 -1.11e-03 -7.17e-04 -2.39e-05 -2.21e-05 -2.70e-04
## 2671 -3.96e-03 4.01e-03 -2.73e-03 -1.73e-03 2.86e-04 4.97e-04 -2.16e-04
## 2672 6.26e-03 -6.24e-03 1.30e-02 -3.50e-03 -1.91e-05 -3.98e-04 -4.95e-04
## 2673 -8.32e-04 8.53e-04 -9.09e-03 -1.05e-04 -1.03e-04 3.28e-04 -1.25e-04
## 2674 6.49e-03 -6.48e-03 1.49e-03 -1.34e-04 -5.09e-04 -3.34e-04 -1.41e-03
## 2675 -8.95e-03 8.94e-03 -4.65e-03 2.69e-04 8.81e-04 5.04e-04 2.56e-03
## 2676 -5.54e-03 5.57e-03 2.44e-03 -1.80e-03 3.16e-04 4.19e-04 -1.90e-07
## 2677 -4.44e-04 4.43e-04 -4.46e-05 5.62e-06 3.96e-05 2.04e-05 1.17e-04
## 2678 -3.43e-03 3.44e-03 3.49e-03 -6.66e-04 -5.54e-05 1.11e-04 2.88e-04
## 2679 8.01e-03 -8.00e-03 -1.66e-04 -3.32e-04 -1.48e-04 -3.05e-04 -1.48e-03
## 2680 6.48e-03 -6.50e-03 -3.20e-03 1.44e-03 1.92e-04 -3.21e-04 -4.94e-04
## 2681 3.14e-03 -3.15e-03 -6.10e-04 -6.02e-05 3.75e-05 -1.74e-04 3.81e-04
## 2682 -5.92e-03 5.95e-03 6.20e-03 -2.59e-03 3.69e-04 4.01e-04 -8.45e-06

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## 2683 2.28e-03 -2.28e-03 -1.23e-03 3.17e-05 -1.71e-04 -6.86e-05 -5.19e-04
## 2684 -4.24e-03 4.23e-03 3.03e-03 -8.18e-05 2.62e-04 1.16e-04 7.71e-04
## 2685 -5.37e-03 5.39e-03 1.13e-03 -1.28e-03 -1.98e-04 3.17e-04 3.87e-04
## 2686 3.28e-03 -3.23e-03 6.14e-03 -8.75e-04 -5.76e-04 -4.56e-04 3.47e-04
## 2687 -2.71e-05 2.68e-05 -1.15e-04 5.67e-07 5.32e-06 -1.87e-06 3.58e-05
## 2688 -1.19e-03 1.19e-03 2.99e-05 1.18e-05 8.79e-05 5.35e-05 2.46e-04
## 2689 1.25e-03 -1.24e-03 1.06e-03 -9.92e-04 2.76e-05 3.54e-06 -1.98e-04
## 2690 4.82e-04 -4.99e-04 4.96e-03 -2.83e-04 2.15e-04 -2.10e-04 1.03e-03
## 2691 1.55e-02 -1.56e-02 -5.42e-03 -9.68e-05 -2.77e-04 -7.11e-04 1.52e-05
## 2692 1.03e-03 -1.04e-03 -2.37e-04 -2.86e-05 6.51e-05 -6.57e-05 3.30e-04
## 2693 -3.33e-03 3.34e-03 1.65e-03 -7.41e-04 -9.88e-05 1.65e-04 2.54e-04
## 2694 -3.53e-05 3.43e-05 2.24e-04 3.99e-05 1.46e-05 -6.88e-06 2.81e-06
## 2695 -2.73e-03 2.71e-03 2.10e-03 1.42e-04 -3.01e-05 -2.96e-05 1.26e-03
## 2696 -1.06e-04 1.39e-04 -1.15e-02 -6.51e-04 -3.02e-04 3.90e-04 -1.64e-04
## 2697 -3.03e-03 2.95e-03 3.45e-02 1.11e-03 7.61e-04 -9.45e-04 7.19e-04
## 2698 6.62e-03 -6.61e-03 6.37e-04 -9.97e-05 -5.03e-04 -3.18e-04 -1.40e-03
## 2699 1.48e-02 -1.48e-02 5.67e-03 -6.02e-04 -1.91e-04 -1.00e-03 6.32e-04
## 2700 -1.20e-02 1.20e-02 -1.35e-02 3.16e-03 1.08e-03 9.05e-04 7.33e-05
## 2701 2.11e-02 -2.16e-02 -1.31e-02 4.41e-03 2.93e-03 1.08e-04 -4.17e-03
## 2702 -6.17e-04 6.24e-04 2.51e-03 -8.66e-04 -2.00e-04 -1.64e-06 1.48e-04
## 2703 -2.39e-03 2.39e-03 2.94e-03 -4.36e-04 -2.55e-05 6.02e-05 2.08e-04
## 2704 -1.51e-04 1.51e-04 8.68e-05 -3.17e-07 1.09e-06 6.19e-06 -5.26e-06
## 2705 1.91e-02 -1.92e-02 -3.08e-02 8.98e-03 1.67e-03 -5.23e-04 -2.24e-03
## 2706 -4.81e-04 4.81e-04 -1.13e-03 2.59e-04 7.41e-05 4.82e-05 -1.90e-05
## 2707 1.11e-03 -1.11e-03 -1.32e-03 7.95e-05 -5.92e-05 -4.66e-05 1.56e-04
## 2708 -7.53e-04 7.57e-04 -7.63e-04 6.26e-05 -4.16e-05 7.38e-05 -2.47e-04
## 2709 -8.65e-06 8.88e-06 6.20e-05 -6.17e-06 2.35e-06 8.77e-07 -1.88e-05
## 2710 -6.16e-03 6.12e-03 1.45e-02 -6.34e-04 6.40e-04 -1.69e-04 2.44e-03
## 2711 4.57e-04 -4.67e-04 -2.44e-03 -5.04e-05 1.13e-04 -1.49e-04 1.02e-03
## 2712 -3.38e-04 3.33e-04 -3.74e-03 7.75e-04 -2.70e-05 5.89e-05 3.70e-05
## 2713 -1.45e-02 1.41e-02 2.57e-03 3.66e-03 3.77e-03 1.89e-03 -1.31e-03
## 2714 -1.83e-03 1.86e-03 -7.67e-03 -5.32e-04 -1.80e-04 3.59e-04 -1.45e-05
## 2715 -1.15e-03 1.14e-03 -2.10e-05 6.68e-04 2.19e-04 3.03e-05 2.07e-06
## 2716 2.39e-03 -2.45e-03 -6.78e-03 -4.30e-05 3.80e-04 1.82e-04 2.03e-04
## 2717 2.93e-03 -2.89e-03 -4.75e-03 -1.52e-03 4.38e-05 1.62e-04 -5.45e-04
## 2718 1.23e-03 -1.25e-03 3.12e-03 -8.78e-06 -1.45e-04 -2.51e-04 9.33e-04
## 2719 4.15e-03 -4.31e-03 -4.00e-03 -7.04e-04 1.05e-03 2.01e-04 9.57e-04
## 2720 -1.68e-03 1.72e-03 -7.50e-03 -1.53e-03 -4.62e-04 3.94e-04 6.12e-05
## 2721 -2.02e-02 2.02e-02 1.33e-02 -2.16e-03 9.23e-05 7.90e-04 1.42e-03
## 2722 1.62e-03 -1.63e-03 -8.05e-04 -2.19e-05 8.62e-05 -8.78e-05 4.42e-04
## 2723 -5.22e-04 4.97e-04 2.90e-03 1.13e-04 -1.36e-04 -2.00e-04 1.47e-03
## 2724 -1.05e-02 1.05e-02 -1.32e-03 7.31e-04 5.67e-05 3.04e-04 3.23e-03
## 2725 -4.95e-04 4.97e-04 1.14e-04 1.37e-05 -3.12e-05 3.15e-05 -1.58e-04
## 2726 3.56e-03 -3.52e-03 -1.32e-02 -8.45e-04 -4.76e-04 2.52e-04 -3.59e-04
## 2727 2.27e-02 -2.32e-02 4.98e-03 3.51e-03 2.79e-03 -5.00e-04 -3.80e-03
## 2728 1.28e-03 -1.27e-03 -1.20e-03 5.28e-05 -1.54e-04 -1.33e-05 -5.32e-04
## 2729 -4.60e-03 4.59e-03 -9.71e-04 2.69e-04 6.87e-05 1.87e-04 9.98e-04
## 2730 -5.56e-04 5.58e-04 1.17e-04 -1.32e-04 -2.06e-05 3.28e-05 4.01e-05
## 2731 -2.20e-03 2.21e-03 -2.29e-03 1.75e-04 -6.87e-05 2.08e-04 -5.17e-04
## 2732 -1.72e-03 1.69e-03 7.18e-04 3.57e-04 -1.67e-04 -1.50e-04 2.19e-03
## 2733 -2.05e-04 2.04e-04 2.64e-05 1.42e-05 -4.67e-07 2.99e-06 7.77e-05
## 2734 1.10e-02 -1.13e-02 4.85e-03 1.74e-03 1.48e-03 -2.80e-04 -1.89e-03
## 2735 -8.64e-05 2.66e-04 -2.83e-04 -1.02e-02 -1.59e-03 -6.29e-03 -1.02e-02
## 2736 -6.74e-03 6.73e-03 -2.54e-03 5.02e-04 6.75e-05 2.70e-04 1.77e-03

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## 2737 -2.52e-03 2.50e-03 1.41e-02 -2.29e-03 5.61e-04 -5.08e-04 -7.55e-05
## 2738 -1.04e-02 1.19e-02 -6.67e-02 9.84e-03 -1.13e-02 5.08e-03 -6.31e-03
## 2739 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 2740 -7.28e-02 7.51e-02 -3.05e-02 1.30e-02 -1.58e-02 8.81e-03 -5.44e-03
## 2741 8.15e-04 -8.07e-04 2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05 7.89e-05
## 2742 -2.63e-03 2.62e-03 3.71e-03 1.86e-06 4.26e-06 -3.96e-05 9.12e-04
## 2743 1.49e-02 -1.55e-02 -2.48e-03 2.98e-03 4.41e-03 -1.79e-03 -4.36e-03
## 2744 -1.74e-05 1.63e-05 -2.43e-04 -2.69e-05 1.61e-05 1.01e-05 5.14e-05
## 2745 7.62e-05 -7.70e-05 -1.54e-04 -1.96e-05 7.64e-06 1.83e-06 2.97e-05
## 2746 1.28e-02 -1.34e-02 4.99e-03 2.83e-03 4.69e-03 -1.94e-03 -4.26e-03
## 2747 5.32e-03 -5.34e-03 -2.40e-03 -7.38e-05 -7.55e-05 -6.26e-04 -1.95e-03
## 2748 3.65e-03 -3.28e-03 2.26e-03 5.32e-06 -3.47e-03 -6.53e-04 -5.18e-03
## 2749 -2.00e-03 2.02e-03 1.70e-03 -5.82e-04 -9.13e-05 4.28e-05 5.17e-04
## 2750 -1.11e-03 1.10e-03 -2.75e-04 5.59e-06 7.04e-05 -7.74e-05 -5.27e-04
## 2751 -6.04e-03 5.91e-03 1.24e-03 -5.51e-04 1.29e-03 4.21e-05 8.03e-04
## 2752 2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05 8.63e-05
## 2753 -7.11e-03 7.09e-03 5.00e-03 -1.62e-03 2.66e-04 -1.57e-04 2.95e-04
## 2754 -1.35e-03 1.33e-03 4.63e-03 -6.66e-04 2.23e-04 -3.10e-05 8.75e-04
## 2755 1.81e-03 -1.77e-03 1.85e-03 -1.63e-03 -4.92e-04 -1.91e-04 1.03e-03
## 2756 2.45e-03 -2.44e-03 -6.48e-04 -2.85e-06 -1.53e-04 -9.82e-05 -4.19e-04
## 2757 2.45e-03 -2.44e-03 -6.48e-04 -2.85e-06 -1.53e-04 -9.82e-05 -4.19e-04
## 2758 -3.36e-03 3.35e-03 1.88e-03 7.56e-04 2.27e-04 -1.96e-05 1.21e-04
## 2759 -1.93e-04 1.98e-04 -6.02e-04 5.19e-05 -9.74e-05 4.61e-05 -4.13e-04
## 2760 1.10e-03 -1.11e-03 5.94e-04 3.88e-05 -9.20e-05 -1.29e-04 4.72e-04
## 2761 -2.83e-03 2.81e-03 1.01e-02 2.15e-04 2.35e-05 -2.05e-04 4.75e-04
## 2762 3.37e-03 -3.36e-03 5.22e-03 -1.20e-03 -3.74e-04 -2.83e-04 3.12e-05
## 2763 5.07e-03 -5.06e-03 5.09e-04 -6.42e-05 -4.52e-04 -2.33e-04 -1.33e-03
## 2764 8.84e-04 -8.84e-04 1.77e-04 -1.87e-05 -6.14e-05 -4.62e-05 -1.62e-04
## 2765 5.34e-04 -5.29e-04 2.75e-04 -8.31e-05 1.95e-05 1.31e-06 -3.74e-04
## 2766 7.11e-03 -7.12e-03 4.87e-05 -1.71e-04 -7.04e-05 -4.08e-04 3.04e-04
## 2767 2.69e-02 -2.69e-02 2.40e-03 -1.64e-04 -1.18e-03 -1.78e-03 1.48e-03
## 2768 1.54e-02 -1.54e-02 -2.70e-03 -2.25e-04 -2.39e-04 -7.87e-04 2.35e-04
## 2769 -3.32e-03 3.27e-03 4.28e-03 2.37e-03 -9.29e-05 -2.17e-04 6.97e-04
## 2770 2.83e-03 -2.82e-03 -1.17e-03 -4.75e-04 -5.44e-05 -6.56e-05 -2.45e-04
## 2771 2.68e-03 -2.67e-03 -1.31e-03 -4.26e-04 -5.22e-05 -5.79e-05 -2.34e-04
## 2772 -4.66e-03 4.61e-03 1.78e-02 1.07e-03 3.91e-04 -5.89e-04 4.41e-04
## 2773 1.51e-04 -1.47e-04 -9.75e-06 -2.15e-04 1.15e-05 1.53e-05 -4.50e-05
## 2774 -3.77e-03 3.75e-03 4.60e-03 -1.93e-04 3.97e-04 1.88e-05 1.38e-03
## 2775 1.20e-03 -1.21e-03 5.92e-05 1.13e-04 -1.26e-04 -1.51e-04 7.57e-04
## 2776 -2.03e-03 2.02e-03 -1.65e-03 1.03e-03 -3.55e-07 5.49e-05 2.22e-04
## 2777 -1.04e-02 1.04e-02 1.24e-02 -2.84e-03 -3.78e-04 3.19e-04 9.75e-04
## 2778 4.65e-02 -4.65e-02 -1.14e-02 -4.76e-04 -9.99e-04 -2.23e-03 -4.72e-04
## 2779 -4.44e-03 4.45e-03 2.82e-04 -5.51e-04 1.94e-04 2.95e-04 1.06e-04
## 2780 -7.49e-03 7.47e-03 -3.86e-02 8.79e-03 2.27e-03 1.16e-03 -1.08e-03
## 2781 6.73e-03 -6.74e-03 9.85e-04 -2.06e-04 -6.07e-05 -4.14e-04 3.41e-04
## 2782 8.14e-04 -8.05e-04 2.78e-03 -1.17e-03 -3.22e-04 -7.23e-05 1.07e-04
## 2783 -8.71e-03 8.73e-03 2.47e-03 -1.16e-03 1.53e-04 3.87e-04 1.55e-03
## 2784 2.92e-02 -2.92e-02 -6.54e-03 -3.37e-04 -5.75e-04 -1.43e-03 -7.40e-05
## 2785 2.17e-03 -2.15e-03 -2.66e-04 -1.11e-03 -2.37e-04 9.26e-05 2.51e-06
## 2786 1.38e-04 -1.95e-04 2.53e-04 3.22e-03 4.89e-04 1.95e-03 3.23e-03
## 2787 1.03e-03 -1.04e-03 1.71e-03 -1.14e-04 4.23e-05 -1.18e-04 3.02e-04
## 2788 1.08e-04 -7.33e-05 -2.14e-03 -1.62e-03 1.34e-04 2.42e-04 -3.58e-04
## 2789 -7.45e-04 7.85e-04 -2.84e-04 -2.11e-03 1.90e-04 2.79e-04 -3.49e-04
## 2790 2.64e-04 -2.65e-04 -1.04e-05 -6.55e-06 1.14e-06 -1.55e-05 2.55e-05

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## 2791  9.63e-03 -9.63e-03  1.51e-02 -2.79e-03 -6.47e-04 -5.83e-04  8.71e-05
## 2792  1.37e-03 -1.37e-03  3.08e-04 -3.04e-05 -9.57e-05 -7.25e-05 -2.52e-04
## 2793  2.88e-04 -2.88e-04  1.68e-04 -9.43e-06 -2.88e-05 -1.67e-05 -8.33e-05
## 2794  4.49e-04 -4.48e-04  7.02e-04 -2.96e-05 -7.12e-05 -3.39e-05 -2.19e-04
## 2795  3.77e-04 -3.43e-04  3.01e-03 -2.30e-03  1.48e-04  1.29e-04 -3.31e-04
## 2796  3.31e-04 -3.22e-04  5.03e-03 -1.46e-03 -3.66e-04 -1.01e-04  1.97e-04
## 2797 -2.98e-02  2.98e-02  3.26e-02  1.85e-03  1.34e-03  1.45e-04  1.87e-03
## 2798 -6.40e-03  6.37e-03  8.30e-03  8.98e-04  1.04e-04 -2.15e-05  6.96e-04
## 2799  6.62e-04 -6.59e-04 -3.52e-04  1.77e-05 -9.40e-05 -1.21e-05 -3.23e-04
## 2800  4.55e-04 -4.55e-04  3.22e-04 -1.72e-05 -4.67e-05 -2.78e-05 -1.35e-04
## 2801  8.02e-03 -8.00e-03 -4.27e-03 -1.99e-03 -8.27e-04 -2.06e-04 -3.14e-04
## 2802 -9.88e-03  9.88e-03 -2.88e-03  2.48e-04  7.00e-04  5.40e-04  1.83e-03
## 2803 -1.90e-04 -3.69e-04  2.97e-04  3.18e-02  4.87e-03  1.94e-02  3.18e-02
## 2804  2.68e-03 -2.91e-03 -1.85e-02 -1.70e-03  3.56e-03  1.29e-03  5.12e-04
## 2805  8.83e-04 -8.80e-04 -2.00e-03 -9.81e-06 -1.02e-05  1.84e-02 -1.57e-04
## 2806  1.87e-04 -1.86e-04 -2.94e-04  1.19e-05 -1.61e-05  3.50e-07 -5.69e-05
## 2807  8.46e-03 -8.41e-03 -1.92e-02 -1.20e-03 -8.95e-05  3.05e-04 -1.18e-03
## 2808  5.41e-05 -5.27e-05  8.21e-04 -2.39e-04 -5.99e-05 -1.65e-05  3.22e-05
## 2809  1.58e-03 -1.58e-03  8.17e-03 -1.86e-03 -4.79e-04 -2.46e-04  2.28e-04
## 2810 -1.32e-02  1.31e-02  1.38e-02  4.15e-03  5.56e-05 -1.83e-04  1.74e-03
## 2811 -4.69e-04  4.81e-04 -1.12e-03 -5.32e-04  6.37e-05  1.21e-04 -1.08e-04
## 2812  1.55e-03 -1.54e-03 -1.98e-03 -1.96e-04 -1.19e-04 -1.35e-05 -9.76e-05
## 2813  9.15e-03 -9.12e-03 -4.62e-03 -1.47e-03 -5.25e-04 -7.37e-05 -3.82e-04
## 2814  4.94e-03 -5.03e-03 -6.60e-03 -7.29e-04  1.20e-03  2.65e-04  1.30e-05
## 2815  9.50e-03 -9.49e-03 -2.39e-04 -9.42e-05 -7.02e-04 -4.28e-04 -1.97e-03
## 2816  8.90e-03 -8.90e-03 -2.24e-04 -8.83e-05 -6.58e-04 -4.01e-04 -1.85e-03
## 2817 -4.92e-05  5.10e-05  3.22e-04 -1.84e-04 -4.71e-05  1.72e-06  2.34e-05
## 2818  4.88e-04 -4.87e-04  3.35e-04 -1.52e-05 -6.43e-05 -2.69e-05 -2.00e-04
## 2819  1.05e-02 -1.05e-02  1.10e-02 -4.38e-03 -8.68e-05 -4.71e-04 -8.98e-04
## 2820 -1.09e-02  1.09e-02 -2.58e-02  5.88e-03  1.68e-03  1.09e-03 -4.31e-04
## 2821  3.21e-04 -3.19e-04 -1.43e-04 -9.27e-05 -3.09e-06 -2.85e-06 -3.49e-05
## 2822  2.00e-03 -2.00e-03 -1.77e-03  1.04e-04 -1.01e-04 -9.39e-05  2.28e-04
## 2823 -2.48e-02  2.45e-02  5.30e-03  3.29e-03  3.69e-03  2.21e-03 -4.93e-04
## 2824 -1.31e-02  1.29e-02  1.67e-03 -3.83e-03  2.36e-03 -1.06e-03 -7.53e-03
## 2825  2.88e-03 -2.87e-03  3.25e-03 -1.10e-03 -3.54e-04 -2.02e-04  9.78e-06
## 2826  2.41e-03 -2.45e-03  1.55e-03  1.89e-03 -2.38e-04 -3.89e-04  2.76e-04
## 2827 -1.11e-03  1.14e-03 -7.36e-03 -3.97e-04 -1.59e-04  3.04e-04 -5.45e-05
## 2828 -2.54e-04  3.08e-04 -1.47e-02 -1.76e-03 -6.44e-04  5.49e-04 -1.28e-04
## 2829  2.92e-04 -2.83e-04  3.26e-04 -1.22e-04  5.27e-05  3.79e-05 -6.00e-04
## 2830  7.42e-04 -7.09e-04 -3.68e-03 -1.41e-03  1.04e-04  2.35e-04 -3.96e-04
## 2831 -3.97e-03  3.96e-03 -1.01e-03  2.42e-04  5.86e-05  1.65e-04  8.68e-04
## 2832  1.22e-02 -1.21e-02  3.62e-03 -5.51e-03 -1.12e-03 -1.73e-03 -3.39e-03
## 2833  2.17e-04 -2.16e-04  5.67e-04 -1.65e-04 -4.62e-05 -2.11e-05  1.35e-05
## 2834 -9.91e-04  1.00e-03  4.03e-03 -1.39e-03 -3.21e-04 -2.63e-06  2.37e-04
## 2835  1.20e-02 -1.20e-02  5.29e-03 -3.78e-04 -8.78e-04 -7.04e-04 -2.27e-03
## 2836  8.16e-04 -8.15e-04  1.57e-03 -6.55e-05 -1.39e-04 -6.85e-05 -4.24e-04
## 2837  1.05e-03 -1.05e-03 -1.09e-03 -3.85e-04 -2.08e-05 -1.31e-04 -1.16e-04
## 2838  5.23e-03 -5.23e-03 -2.97e-03  1.81e-05 -8.19e-05 -2.08e-04  1.25e-05
## 2839 -5.13e-04  5.11e-04 -6.60e-05 -1.77e-06  9.08e-05  1.59e-05  3.09e-04
## 2840  2.23e-03 -2.24e-03 -2.33e-03  1.53e-04 -1.25e-04 -1.08e-04  3.69e-04
## 2841  1.62e-03 -1.60e-03  3.87e-03 -1.92e-03  7.04e-05 -9.96e-06 -2.91e-04
## 2842 -5.90e-03  5.90e-03 -1.36e-02  2.58e-03  7.44e-04  6.11e-04 -1.80e-04
## 2843  1.63e-02 -1.60e-02 -2.57e-02  2.51e-03 -2.89e-03 -7.66e-04 -3.91e-03
## 2844 -9.01e-03  9.04e-03 -1.64e-03  3.40e-04  1.92e-04  9.97e-04  2.27e-03

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## 2845 -2.53e-03 2.53e-03 3.28e-03 -6.60e-04 -8.07e-05 6.80e-05 2.39e-04
## 2846 -9.81e-03 9.85e-03 -2.84e-03 4.22e-04 2.07e-04 1.14e-03 2.53e-03
## 2847 -2.76e-03 2.74e-03 -1.24e-04 3.26e-04 -7.50e-05 -1.53e-05 1.70e-03
## 2848 6.46e-04 -5.86e-04 -1.67e-02 4.31e-03 -8.33e-05 1.35e-03 -4.97e-05
## 2849 -9.64e-03 9.69e-03 -1.19e-02 3.37e-03 2.71e-04 1.53e-03 4.55e-04
## 2850 -5.55e-04 5.57e-04 1.90e-03 -2.49e-05 -2.67e-05 3.99e-05 -2.94e-04
## 2851 -1.92e-02 1.92e-02 5.93e-03 3.12e-04 3.69e-04 1.94e-03 5.39e-03
## 2852 -6.01e-03 6.05e-03 -6.32e-03 3.38e-03 1.30e-04 1.26e-03 4.43e-04
## 2853 -8.76e-03 8.75e-03 -4.06e-04 1.13e-04 6.58e-04 4.10e-04 1.84e-03
## 2854 8.71e-04 -8.69e-04 -9.78e-05 5.43e-07 -9.31e-05 -3.19e-05 -2.95e-04
## 2855 2.08e-03 -2.11e-03 8.27e-04 1.94e-04 -2.40e-04 -3.02e-04 1.51e-03
## 2856 1.98e-03 -2.01e-03 1.23e-02 3.25e-04 5.03e-05 -6.27e-04 9.16e-05
## 2857 -1.68e-03 1.67e-03 1.08e-03 6.98e-04 2.54e-04 2.40e-05 4.68e-05
## 2858 1.38e-03 -1.37e-03 -2.21e-03 -7.40e-04 2.21e-05 7.77e-05 -2.60e-04
## 2859 -3.54e-03 3.40e-03 3.94e-02 2.56e-03 -3.00e-04 -1.39e-03 1.82e-03
## 2860 1.38e-02 -1.43e-02 -1.60e-05 3.32e-03 2.60e-03 -5.07e-06 -3.10e-03
## 2861 9.36e-04 -9.39e-04 -1.34e-03 2.12e-05 8.26e-05 -3.12e-05 3.55e-04
## 2862 2.32e-03 -2.32e-03 -7.86e-04 -2.80e-05 2.24e-05 -1.18e-04 2.51e-04
## 2863 -4.66e-03 4.64e-03 6.56e-03 3.28e-06 7.54e-06 -7.02e-05 1.61e-03
## 2864 -3.17e-03 3.16e-03 7.97e-05 3.14e-05 2.34e-04 1.43e-04 6.57e-04
## 2865 1.04e-03 -9.89e-04 -5.14e-03 -1.97e-03 1.46e-04 3.28e-04 -5.53e-04
## 2866 -9.61e-04 1.22e-03 3.41e-02 -3.63e-05 -2.22e-03 -1.49e-03 -1.49e-03
## 2867 1.86e-03 -1.88e-03 2.36e-03 6.00e-04 -1.24e-04 -2.46e-04 9.74e-05
## 2868 -2.23e-03 2.24e-03 1.82e-05 -3.94e-04 -4.89e-05 1.39e-04 1.41e-04
## 2869 3.49e-03 -3.49e-03 -1.07e-03 -4.76e-05 3.55e-05 -1.81e-04 3.87e-04
## 2870 2.95e-03 -2.96e-03 -2.55e-03 1.91e-04 -1.74e-04 -1.66e-04 5.76e-04
## 2871 5.35e-03 -5.36e-03 -2.81e-03 1.78e-04 -2.66e-04 -2.99e-04 5.83e-04
## 2872 1.74e-03 -1.74e-03 1.87e-03 -2.00e-04 -1.06e-05 -9.50e-05 -5.19e-04
## 2873 1.69e-03 -1.68e-03 -4.13e-04 2.81e-05 -2.65e-04 -4.02e-05 -9.08e-04
## 2874 9.00e-03 -9.02e-03 -4.39e-03 -1.61e-04 -1.36e-04 -5.92e-04 8.23e-04
## 2875 2.41e-02 -2.46e-02 5.28e-03 3.72e-03 2.96e-03 -5.30e-04 -4.02e-03
## 2876 4.14e-03 -4.13e-03 5.27e-03 -1.35e-03 -4.37e-04 -3.20e-04 6.82e-06
## 2877 4.65e-03 -4.64e-03 -5.30e-04 -1.75e-05 -3.92e-04 -1.89e-04 -1.17e-03
## 2878 1.58e-03 -1.57e-03 -1.02e-03 -6.58e-04 -2.40e-04 -2.26e-05 -4.41e-05
## 2879 -3.56e-03 3.58e-03 1.09e-03 -1.03e-03 -3.07e-05 -4.38e-05 -3.99e-04
## 2880 -1.16e-02 1.16e-02 -2.65e-03 2.40e-04 9.08e-04 5.97e-04 2.51e-03
## 2881 -6.06e-04 6.12e-04 7.38e-03 -1.51e-03 -3.30e-04 -1.20e-04 2.92e-04
## 2882 -2.30e-03 2.29e-03 1.93e-03 -1.61e-04 1.67e-04 -8.20e-05 9.97e-04
## 2883 -6.89e-03 6.89e-03 1.44e-03 4.77e-04 -3.48e-04 5.80e-04 2.22e-03
## 2884 -5.17e-04 5.04e-04 -1.81e-03 2.79e-05 9.69e-05 -2.50e-04 -1.33e-03
## 2885 -1.47e-02 1.47e-02 5.71e-03 -2.10e-03 5.32e-04 7.39e-05 6.11e-04
## 2886 2.55e-03 -2.56e-03 -1.56e-03 -4.23e-05 -4.70e-06 -4.20e-04 -1.47e-03
## 2887 -9.21e-04 9.17e-04 1.93e-04 -1.08e-05 5.33e-05 -5.77e-05 -3.55e-04
## 2888 -4.08e-02 4.02e-02 6.72e-04 -1.96e-03 6.20e-03 1.06e-03 4.12e-03
## 2889 -3.59e-05 3.63e-05 -1.44e-05 2.69e-06 -3.76e-07 9.21e-06 2.88e-05
## 2890 -1.19e-03 1.18e-03 -2.74e-03 -8.61e-04 7.30e-05 -1.18e-04 -1.09e-04
## 2891 -1.94e-04 1.96e-04 8.42e-04 -2.05e-05 -6.63e-05 -9.55e-07 -2.47e-04
## 2892 -2.67e-04 2.70e-04 -4.12e-04 1.90e-04 -2.23e-04 1.30e-04 7.60e-04
## 2893 -1.21e-03 1.20e-03 9.49e-04 -3.26e-05 5.27e-05 -2.77e-05 -1.79e-04
## 2894 3.96e-04 -4.00e-04 -8.01e-04 1.23e-05 8.08e-06 -8.26e-05 -3.72e-04
## 2895 -1.47e-03 1.46e-03 1.85e-03 -8.93e-04 6.76e-05 -1.89e-04 2.67e-05
## 2896 -1.68e-04 1.68e-04 7.71e-05 5.78e-07 1.03e-06 7.49e-06 -7.18e-06
## 2897 -5.20e-04 5.18e-04 -3.37e-05 -8.81e-07 3.19e-05 -3.49e-05 -2.29e-04
## 2898 -2.00e-03 2.01e-03 -1.16e-03 4.45e-04 -4.26e-04 3.60e-04 1.68e-03

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## 2899  3.86e-04 -3.88e-04 -2.78e-04 -1.77e-04 -7.14e-06 -5.92e-05 -4.31e-05
## 2900  2.35e-04 -2.37e-04  2.66e-04 -6.54e-05  5.97e-05 -5.05e-05 -2.27e-04
## 2901  1.43e-03 -1.44e-03  1.89e-04 -2.74e-05  2.18e-05 -1.37e-04 -4.46e-04
## 2902 -1.22e-02  1.22e-02  1.10e-02 -2.45e-03 -2.33e-04  4.40e-04  1.01e-03
## 2903  3.41e-03 -3.40e-03 -6.39e-03  2.53e-04 -2.41e-04  2.60e-05 -8.61e-04
## 2904 -1.51e-03  1.52e-03  3.48e-04  4.19e-05 -9.53e-05  9.63e-05 -4.83e-04
## 2905  2.80e-02 -2.81e-02 -1.48e-02  3.53e-03 -1.91e-04  1.67e-05  3.64e-03
## 2906 -2.40e-03  2.39e-03 -4.48e-03  1.14e-03  3.39e-04  2.11e-04 -6.02e-05
## 2907  1.49e-02 -1.52e-02  2.29e-03  1.60e-03  1.20e-03 -4.54e-04 -2.01e-03
## 2908 -8.96e-04  8.72e-04  6.39e-03 -3.47e-04  3.88e-04 -2.00e-04  1.64e-03
## 2909  3.32e-02 -3.33e-02 -1.43e-02  3.74e-03 -2.95e-04 -1.65e-04  3.92e-03
## 2910  4.80e-04 -4.74e-04  7.12e-04 -4.58e-04  1.48e-05 -4.11e-07 -8.04e-05
## 2911 -2.45e-03  2.41e-03  3.50e-03 -2.25e-04  3.40e-04  1.34e-04  4.26e-04
## 2912  1.62e-03 -1.62e-03 -5.19e-04  2.91e-04 -7.54e-05 -1.04e-04 -3.55e-05
## 2913  3.00e-03 -2.98e-03  4.85e-03 -1.95e-03  1.93e-05 -1.16e-04 -3.27e-04
## 2914  2.09e-03 -2.06e-03 -6.69e-03 -7.20e-04  2.17e-05  1.86e-04 -4.26e-04
## 2915 -7.01e-03  6.98e-03  3.73e-03 -1.88e-04  9.95e-04  1.28e-04  3.42e-03
## 2916  1.68e-03 -1.67e-03 -9.52e-04 -4.55e-05 -1.80e-05 -2.69e-05 -4.33e-04
## 2917 -1.61e-02  1.61e-02 -4.33e-03  3.39e-03  3.19e-04  6.66e-04  1.18e-03
## 2918  6.17e-03 -6.16e-03 -1.44e-03 -2.09e-04 -1.04e-04 -1.90e-04 -1.24e-03
## 2919  4.56e-03 -4.56e-03 -1.14e-02 -6.46e-04 -9.62e-05 -1.94e-04 -5.85e-04
## 2920 -4.25e-04  4.44e-04  3.64e-03 -1.49e-03  1.09e-04  6.40e-05 -1.33e-04
## 2921 -1.56e-03  1.56e-03 -1.15e-03  5.20e-04  1.77e-04  9.45e-05  1.26e-05
## 2922 -5.99e-03  5.97e-03 -1.12e-02  3.83e-03  1.12e-03  4.82e-04 -2.30e-04
## 2923  2.68e-03 -2.64e-03 -8.90e-03 -1.21e-03  5.20e-05  2.81e-04 -6.07e-04
## 2924 -2.45e-03  2.44e-03 -8.93e-03  2.27e-03  6.11e-04  2.96e-04 -2.33e-04
## 2925 -9.03e-04  8.97e-04  3.87e-04  2.87e-04  8.85e-05  1.29e-04  5.01e-04
## 2926  9.53e-03 -9.49e-03 -1.22e-02 -1.21e-03 -7.32e-04 -8.32e-05 -6.02e-04
## 2927  8.66e-03 -8.63e-03 -4.23e-04 -1.83e-03 -1.55e-04 -2.65e-04 -7.17e-04
## 2928 -2.84e-03  2.86e-03  2.97e-03 -1.24e-03  1.77e-04  1.93e-04 -4.05e-06
## 2929  1.85e-03 -1.85e-03 -3.35e-03  3.69e-05  1.06e-05 -1.04e-04  4.09e-04
## 2930  2.25e-02 -2.25e-02 -8.22e-03  3.03e-04 -9.48e-04 -1.18e-03  8.65e-04
## 2931 -5.48e-03  5.18e-03 -3.76e-02  3.92e-03  5.12e-03  2.51e-03 -4.48e-03
## 2932 -2.15e-02  2.10e-02 -5.27e-04 -2.34e-03  4.76e-03  2.22e-03  5.30e-03
## 2933 -3.12e-02  3.07e-02  9.68e-03 -2.14e-03  5.12e-03  4.67e-04  3.54e-03
## 2934 -7.57e-03  7.55e-03  9.31e-04 -2.00e-03  3.06e-04 -1.64e-04  1.66e-04
## 2935  4.12e-03 -4.12e-03 -5.88e-04 -9.98e-06 -1.85e-04  1.51e-05  6.56e-04
## 2936 -5.68e-02  5.61e-02 -9.52e-03 -1.86e-03  7.95e-03  1.93e-03  5.18e-03
## 2937  3.67e-03 -4.19e-03  5.91e-03 -2.75e-03  4.17e-03 -1.32e-03  1.89e-03
## 2938  2.99e-03 -2.99e-03 -2.79e-03  9.85e-05 -1.27e-04  6.89e-05  3.85e-04
## 2939  2.32e-03 -2.33e-03  1.48e-03 -1.48e-04 -3.72e-05 -3.49e-04 -8.10e-04
## 2940  1.25e-02 -1.31e-02  5.59e-03  2.79e-03  4.68e-03 -1.94e-03 -4.21e-03
## 2941 -7.23e-04  7.27e-04 -4.15e-04  4.38e-05  1.18e-05  1.07e-04  2.49e-04
## 2942 -5.29e-04  5.26e-04 -1.01e-04  1.58e-06  3.32e-05 -3.65e-05 -2.46e-04
## 2943 -1.22e-02  1.23e-02 -1.93e-02  5.90e-03  3.14e-04  2.43e-03  6.25e-04
## 2944 -6.44e-04  6.50e-04 -1.23e-04  4.05e-05 -5.11e-06  1.53e-04  4.88e-04
## 2945  2.93e-04 -3.05e-04 -1.45e-05 -5.26e-05  4.66e-05 -2.59e-04 -9.84e-04
## 2946 -2.37e-03  2.35e-03  2.58e-03 -1.58e-03  1.14e-04 -3.33e-04  1.84e-05
## 2947 -4.95e-03  4.94e-03 -6.35e-04  6.75e-05  2.31e-04 -7.67e-06 -9.29e-04
## 2948  1.25e-04 -1.26e-04  1.34e-04 -1.42e-05  2.33e-06 -3.96e-05 -1.19e-04
## 2949  1.65e-03 -1.66e-03  1.18e-03 -1.42e-03 -2.01e-05 -4.64e-04 -1.87e-04
## 2950 -1.63e-02  1.57e-02 -3.71e-03  3.87e-03  5.81e-03 -1.82e-04 -3.18e-03
## 2951 -7.62e-03  7.61e-03  6.31e-03 -1.68e-03  2.80e-04 -1.69e-04  3.49e-04
## 2952 -1.37e-02  1.31e-02  9.10e-03 -3.24e-03  5.95e-03 -7.59e-04  3.33e-03

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## 2953 2.15e-02 -2.19e-02 5.24e-03 2.31e-03 1.80e-03 -6.89e-04 -2.91e-03
## 2954 1.83e-03 -1.83e-03 6.78e-04 -3.40e-05 -2.23e-04 -8.76e-05 -6.99e-04
## 2955 -5.29e-03 5.33e-03 -7.15e-03 -1.70e-03 -4.09e-04 5.86e-04 2.59e-04
## 2956 -7.20e-03 7.10e-03 2.49e-02 3.58e-03 8.21e-04 5.57e-04 3.50e-03
## 2957 -4.23e-03 4.25e-03 -2.87e-03 -8.26e-04 -1.46e-04 3.56e-04 2.18e-04
## 2958 5.21e-03 -5.25e-03 5.37e-03 -8.78e-05 -3.44e-04 -5.88e-04 1.38e-03
## 2959 2.05e-03 -2.08e-03 2.67e-03 3.89e-05 -1.98e-04 -3.09e-04 1.14e-03
## 2960 3.78e-03 -3.76e-03 -1.68e-03 -1.09e-03 -3.64e-05 -3.36e-05 -4.11e-04
## 2961 5.60e-03 -5.61e-03 -2.94e-03 1.86e-04 -2.78e-04 -3.13e-04 6.10e-04
## 2962 -5.82e-03 5.78e-03 2.26e-02 7.76e-05 2.96e-04 -5.18e-04 6.88e-04
## 2963 -2.82e-03 2.83e-03 6.08e-03 -1.63e-03 1.89e-04 1.30e-04 2.19e-05
## 2964 1.97e-03 -1.98e-03 -9.11e-04 -8.75e-06 -1.37e-06 -8.99e-05 1.26e-04
## 2965 3.26e-03 -3.23e-03 -1.33e-02 9.19e-05 -2.05e-04 2.27e-04 -4.21e-04
## 2966 8.58e-05 -7.88e-05 6.39e-04 7.67e-06 -1.98e-04 1.19e-05 -7.42e-04
## 2967 1.14e-03 -1.17e-03 -8.18e-03 8.14e-04 -3.09e-04 -1.16e-04 2.49e-03
## 2968 7.15e-04 -7.41e-04 -2.01e-04 2.67e-04 -1.93e-04 -2.00e-04 1.56e-03
## 2969 -6.48e-03 6.46e-03 -3.60e-04 1.81e-03 8.60e-05 1.73e-04 5.94e-04
## 2970 5.19e-04 -5.17e-04 -4.07e-04 -1.08e-04 -4.89e-05 -1.04e-05 -2.45e-05
## 2971 1.65e-03 -1.64e-03 8.56e-04 -4.95e-05 -1.62e-04 -9.27e-05 -4.70e-04
## 2972 6.95e-04 -6.91e-04 -4.76e-04 -1.72e-04 -7.98e-06 -3.78e-06 -7.56e-05
## 2973 4.99e-02 -4.99e-02 -2.13e-02 1.64e-03 -1.14e-03 -2.12e-03 -2.98e-03
## 2974 1.65e-03 -1.64e-03 8.56e-04 -4.95e-05 -1.62e-04 -9.27e-05 -4.70e-04
## 2975 1.00e-03 -8.00e-04 -5.67e-04 -1.15e-02 -1.88e-03 -7.08e-03 -1.15e-02
## 2976 4.21e-04 -4.02e-04 -2.09e-03 -8.00e-04 5.92e-05 1.33e-04 -2.25e-04
## 2977 -8.31e-03 8.32e-03 1.61e-02 -2.98e-03 -4.38e-04 9.99e-05 9.54e-04
## 2978 5.45e-05 -5.44e-05 -3.35e-05 -6.83e-07 -1.00e-06 -1.22e-06 -1.02e-05
## 2979 1.89e-03 -1.89e-03 -1.31e-03 -1.54e-04 -8.68e-05 -3.02e-05 -1.01e-04
## 2980 1.06e-02 -1.08e-02 -8.01e-03 2.14e-03 1.36e-03 6.69e-05 -2.03e-03
## 2981 2.55e-03 -2.53e-03 6.57e-03 -2.08e-03 3.56e-05 -1.34e-04 -2.78e-04
## 2982 -4.21e-03 4.20e-03 -2.60e-03 1.19e-04 5.45e-04 2.25e-04 1.70e-03
## 2983 -4.21e-03 4.20e-03 -2.60e-03 1.19e-04 5.45e-04 2.25e-04 1.70e-03
## 2984 1.78e-02 -1.79e-02 -1.95e-03 5.36e-04 -1.08e-03 -1.38e-03 3.75e-03
## 2985 5.68e-04 -5.65e-04 3.62e-04 -8.24e-06 -1.16e-04 -2.32e-05 -3.93e-04
## 2986 2.90e-03 -2.92e-03 -1.86e-03 1.74e-04 -1.83e-04 -1.91e-04 6.74e-04
## 2987 -1.63e-03 1.62e-03 3.96e-03 -1.67e-04 1.38e-04 -4.29e-05 5.31e-04
## 2988 1.29e-02 -1.29e-02 -3.63e-03 -1.25e-04 -2.07e-04 -6.21e-04 1.31e-04
## 2989 4.52e-04 -4.10e-04 -7.30e-03 -2.01e-03 -6.54e-04 2.96e-04 -7.69e-07
## 2990 3.85e-03 -3.84e-03 -9.79e-04 2.41e-05 -3.95e-04 -1.28e-04 -1.25e-03
## 2991 -1.24e-04 1.16e-04 1.78e-03 -1.76e-05 -3.77e-05 -8.15e-05 4.03e-04
## 2992 4.72e-04 -4.57e-04 6.48e-03 -1.80e-03 -2.60e-04 6.90e-05 2.80e-04
## 2993 3.94e-03 -3.94e-03 1.88e-03 -1.12e-04 -3.85e-04 -2.18e-04 -1.12e-03
## 2994 6.62e-03 -6.61e-03 6.37e-04 -9.97e-05 -5.03e-04 -3.18e-04 -1.40e-03
## 2995 -1.87e-03 1.86e-03 3.42e-03 -7.63e-04 7.22e-05 -1.63e-04 1.01e-04
## 2996 2.40e-03 -2.40e-03 8.74e-04 -6.77e-05 -1.73e-04 -1.36e-04 -4.49e-04
## 2997 2.17e-03 -2.17e-03 -1.25e-03 4.56e-06 -1.57e-05 -8.90e-05 7.56e-05
## 2998 1.01e-03 -1.00e-03 1.01e-04 -1.27e-05 -8.97e-05 -4.62e-05 -2.64e-04
## 2999 1.81e-03 -1.74e-03 2.58e-03 -4.90e-03 -7.27e-04 -1.08e-03 -2.71e-03
## 3000 5.40e-03 -5.41e-03 -1.42e-03 -3.55e-04 2.64e-04 -4.43e-04 -1.72e-03
## 3001 2.99e-03 -2.99e-03 -1.51e-03 -1.19e-05 2.11e-05 -1.36e-04 2.77e-04
## 3002 5.28e-03 -5.28e-03 -6.31e-04 -9.57e-05 -5.65e-05 -2.83e-04 1.88e-04
## 3003 -1.12e-02 1.12e-02 -9.63e-03 5.32e-04 1.00e-03 7.60e-04 2.70e-03
## 3004 -7.23e-05 7.12e-05 -1.19e-03 4.17e-05 7.56e-05 2.51e-05 2.51e-04
## 3005 1.06e-02 -1.06e-02 -4.37e-03 5.46e-05 -6.43e-04 -3.85e-04 -1.78e-03
## 3006 -9.98e-07 3.83e-07 -4.74e-04 1.20e-04 2.88e-05 8.73e-06 -1.87e-05

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## 3007  2.54e-05 -2.56e-05 -4.69e-05  5.03e-06 -2.85e-06 -2.11e-06  1.76e-05
## 3008 -1.61e-02  1.61e-02 -4.33e-03  3.39e-03  3.19e-04  6.66e-04  1.18e-03
## 3009  8.58e-04 -8.55e-04 -7.28e-05 -2.75e-04 -1.02e-04 -3.08e-05 -2.12e-05
## 3010 -8.23e-03  8.19e-03  8.27e-03  8.65e-05  6.39e-05  1.33e-05  2.36e-03
## 3011 -1.99e-03  1.99e-03 -4.83e-04  7.46e-04  2.60e-04  8.64e-05  2.84e-05
## 3012  2.67e-04 -2.66e-04 -5.43e-05 -8.04e-05 -3.05e-05 -8.84e-06 -7.62e-06
## 3013  1.95e-02 -1.94e-02 -9.94e-04 -2.57e-03 -1.10e-03 -1.72e-03 -4.44e-03
## 3014 -9.14e-04  9.32e-04 -4.95e-04 -9.74e-04 -1.25e-04  2.51e-04  1.37e-04
## 3015  6.24e-04 -4.44e-04 -8.76e-05 -1.02e-02 -1.61e-03 -6.33e-03 -1.03e-02
## 3016 -5.97e-03  5.95e-03  9.41e-03 -3.81e-04  5.16e-04 -1.12e-05  1.82e-03
## 3017 -2.45e-03  2.43e-03  5.37e-03 -2.51e-04  3.43e-04 -7.15e-05  1.31e-03
## 3018  6.26e-04 -6.22e-04 -6.52e-04 -1.89e-05  3.52e-06  7.92e-06 -2.59e-04
## 3019 -2.60e-03  2.59e-03  3.53e-03  3.38e-04  4.35e-05 -1.10e-05  2.83e-04
## 3020 -1.36e-03  1.36e-03 -1.46e-03  6.34e-05  1.96e-04  8.75e-05  6.05e-04
## 3021 -5.91e-04  5.76e-04 -1.60e-04  7.00e-04  1.61e-04  2.53e-04  1.09e-03
## 3022 -9.68e-05  1.00e-04  6.34e-04 -3.63e-04 -9.27e-05  3.39e-06  4.60e-05
## 3023 -2.94e-03  2.92e-03  1.41e-03 -7.32e-05  4.25e-04  5.67e-05  1.46e-03
## 3024 -1.33e-02  1.34e-02  2.12e-03 -1.44e-03 -1.28e-05  7.24e-04  8.08e-04
## 3025  1.13e-02 -1.13e-02  3.13e-03 -2.90e-04 -7.34e-04 -6.28e-04 -1.84e-03
## 3026 -1.36e-03  1.39e-03 -6.06e-03 -1.24e-03 -3.74e-04  3.18e-04  4.95e-05
## 3027 -1.16e-02  1.16e-02  2.89e-02  1.07e-03  6.55e-04 -6.06e-04  9.85e-04
## 3028  1.22e-03 -1.18e-03  1.24e-03 -2.50e-03  1.44e-04  1.63e-04 -4.59e-04
## 3029 -3.73e-03  3.74e-03  1.18e-02 -2.03e-03 -1.43e-04  1.53e-04  6.08e-04
## 3030 -9.75e-04  9.68e-04 -3.08e-03  1.01e-04  3.29e-04  8.74e-05  1.11e-03
## 3031 -1.56e-03  1.58e-03 -2.82e-03 -9.52e-04 -2.54e-04  2.17e-04  9.86e-05
## 3032  2.24e-03 -2.27e-03  3.34e-03  1.56e-03  1.63e-04  1.24e-04  9.60e-04
## 3033 -5.29e-03  5.31e-03  5.78e-03 -1.38e-03 -2.57e-05  3.43e-04  5.08e-04
## 3034  9.39e-04 -9.43e-04 -1.27e-03 -2.22e-05  2.16e-05 -9.22e-05  3.70e-04
## 3035  1.22e-02 -1.22e-02  6.14e-03 -8.08e-04 -2.32e-04 -6.39e-04 -2.17e-03
## 3036  1.99e-03 -1.98e-03 -1.73e-03 -1.74e-05 -2.60e-05 -2.08e-05 -4.72e-04
## 3037 -2.11e-03  2.10e-03  1.20e-03  5.71e-05  2.26e-05  3.38e-05  5.44e-04
## 3038  2.99e-03 -2.99e-03 -1.51e-03 -1.19e-05  2.11e-05 -1.36e-04  2.77e-04
## 3039 -1.07e-02  1.07e-02 -1.33e-03 -1.46e-03 -1.29e-04  6.89e-04  6.15e-04
## 3040  8.37e-03 -8.38e-03 -8.17e-03  1.03e-04 -1.72e-04 -3.49e-04  1.88e-04
## 3041  1.59e-02 -1.60e-02 -1.03e-02  2.23e-03 -6.63e-04 -7.77e-04 -6.22e-04
## 3042  1.19e-02 -1.18e-02 -9.41e-03 -2.99e-03 -8.17e-04 -9.79e-04 -2.58e-03
## 3043  3.50e-02 -3.56e-02  5.08e-04  3.75e-03  2.63e-03 -9.71e-04 -4.66e-03
## 3044 -1.76e-03  1.77e-03 -1.23e-04  5.30e-05 -9.87e-06  1.09e-04 -1.85e-04
## 3045  1.85e-03 -1.82e-03 -9.97e-03 -1.49e-03 -5.75e-04  2.77e-04 -1.62e-04
## 3046  3.10e-02 -3.15e-02 -6.33e-03  3.31e-03  2.07e-03 -7.32e-04 -4.07e-03
## 3047  5.08e-03 -5.30e-03  1.38e-02 -1.67e-03  1.18e-03 -2.98e-04  1.54e-03
## 3048  4.26e-03 -4.26e-03  8.53e-04 -9.01e-05 -2.96e-04 -2.23e-04 -7.80e-04
## 3049  9.46e-04 -1.34e-03  1.73e-03  2.20e-02  3.35e-03  1.34e-02  2.21e-02
## 3050 -1.62e-03  1.62e-03  3.56e-04 -2.81e-05  8.75e-05  2.12e-05  3.94e-04
## 3051  1.31e-02 -1.31e-02  4.50e-03 -3.74e-04 -8.62e-04 -7.50e-04 -2.15e-03
## 3052  2.04e-03 -2.08e-03  4.98e-03 -2.76e-03 -9.38e-06 -8.90e-04 -2.37e-04
## 3053 -5.63e-03  5.66e-03 -2.73e-03 -1.55e-03 -3.09e-04  4.62e-04  3.47e-04
## 3054  6.13e-03 -6.12e-03  1.40e-03 -1.27e-04 -4.80e-04 -3.16e-04 -1.33e-03
## 3055 -6.96e-04  6.93e-04 -6.14e-04  3.33e-04  1.06e-04  4.03e-05 -4.42e-06
## 3056 -1.90e-03  1.92e-03 -1.31e-03 -8.28e-04  1.37e-04  2.38e-04 -1.04e-04
## 3057  3.49e-03 -3.49e-03 -1.07e-03 -4.76e-05  3.55e-05 -1.81e-04  3.87e-04
## 3058  1.97e-04 -1.94e-04  5.85e-04 -6.97e-05  1.68e-05 -2.69e-06 -2.27e-04
## 3059 -5.42e-03  5.44e-03  6.80e-04 -1.01e-03  2.61e-04  3.86e-04  8.00e-05
## 3060  1.60e-03 -1.59e-03 -5.70e-03 -2.97e-04 -1.88e-04  1.02e-04 -1.64e-04

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## 3061 -5.22e-04 5.12e-04 2.18e-04 1.08e-04 -5.07e-05 -4.55e-05 6.65e-04
## 3062 -7.25e-04 7.20e-04 -9.03e-04 -2.37e-05 8.93e-05 -3.57e-05 5.78e-04
## 3063 -2.55e-03 2.57e-03 3.22e-03 -1.35e-03 -1.16e-04 2.77e-04 3.24e-04
## 3064 2.96e-03 -2.97e-03 -1.33e-03 -4.10e-05 -4.20e-05 -3.48e-04 -1.08e-03
## 3065 -1.18e-02 1.25e-02 1.08e-02 2.95e-03 -5.39e-03 1.60e-03 -1.77e-03
## 3066 -2.09e-02 2.16e-02 1.09e-02 3.08e-03 -5.01e-03 2.06e-03 -1.30e-03
## 3067 -1.21e-02 1.28e-02 1.11e-02 3.03e-03 -5.52e-03 1.64e-03 -1.81e-03
## 3068 5.28e-03 -5.63e-03 -2.68e-02 2.39e-03 5.10e-03 4.79e-05 -4.79e-03
## 3069 -1.52e-03 1.50e-03 2.64e-03 -1.55e-04 3.69e-04 -5.22e-05 1.39e-03
## 3070 4.56e-03 -4.55e-03 -2.89e-03 8.11e-05 -3.32e-04 -1.26e-04 -1.01e-03
## 3071 1.72e-02 -1.76e-02 -6.94e-03 1.49e-03 5.61e-03 -1.23e-03 -5.62e-03
## 3072 -3.85e-04 3.81e-04 1.40e-03 6.91e-05 2.90e-05 -4.28e-05 3.72e-05
## 3073 -9.62e-03 9.61e-03 7.33e-03 -1.94e-04 5.34e-04 2.61e-04 1.52e-03
## 3074 1.62e-03 -1.60e-03 3.87e-03 -1.92e-03 7.04e-05 -9.96e-06 -2.91e-04
## 3075 3.47e-05 -2.89e-05 6.06e-04 -4.03e-04 2.65e-05 2.16e-05 -5.42e-05
## 3076 2.93e-02 -2.97e-02 2.29e-02 -4.93e-03 3.81e-03 -9.96e-04 5.50e-04
## 3077 -3.84e-03 3.84e-03 -9.91e-05 1.85e-04 6.04e-05 1.40e-04 8.08e-04
## 3078 -9.55e-03 9.53e-03 -1.40e-02 4.06e-03 1.26e-03 7.47e-04 -1.27e-04
## 3079 -3.70e-03 3.73e-03 -4.33e-03 -7.72e-04 -1.61e-04 3.70e-04 1.60e-04
## 3080 5.71e-03 -5.69e-03 3.17e-04 -1.59e-03 -7.57e-05 -1.52e-04 -5.23e-04
## 3081 -1.18e-03 1.19e-03 -1.60e-03 -3.81e-04 -9.14e-05 1.31e-04 5.78e-05
## 3082 4.36e-03 -4.40e-03 1.34e-02 -7.43e-04 7.45e-05 -6.57e-04 1.06e-03
## 3083 -3.37e-02 3.35e-02 1.81e-02 -1.37e-03 2.81e-03 1.73e-03 3.85e-03
## 3084 1.52e-02 -1.57e-02 -2.09e-02 -1.14e-03 3.77e-03 1.43e-03 2.46e-03
## 3085 2.17e-03 -2.17e-03 -4.67e-03 -1.23e-03 -2.27e-05 -3.42e-04 -3.51e-04
## 3086 3.30e-03 -3.30e-03 -1.41e-03 -1.74e-03 4.14e-04 -3.82e-04 -7.17e-04
## 3087 -4.61e-03 4.64e-03 4.95e-04 -1.82e-03 -3.79e-04 3.22e-04 3.81e-04
## 3088 9.01e-04 -8.86e-04 4.31e-03 -4.51e-04 1.09e-04 -2.30e-05 -1.34e-03
## 3089 5.00e-03 -5.02e-03 -8.69e-04 1.10e-04 -2.67e-04 -3.43e-04 7.20e-04
## 3090 -4.67e-03 4.65e-03 5.96e-03 -1.30e-03 1.72e-04 -2.10e-04 2.43e-04
## 3091 -7.59e-04 5.82e-04 -2.60e-05 9.84e-03 1.58e-03 5.97e-03 9.84e-03
## 3092 -1.60e-03 1.61e-03 1.50e-04 5.21e-05 1.94e-05 2.25e-04 6.52e-04
## 3093 5.66e-04 -5.72e-04 6.55e-04 -5.60e-04 -5.79e-06 -1.82e-04 -6.45e-05
## 3094 -1.15e-03 1.13e-03 1.06e-02 -2.19e-03 5.34e-04 -4.86e-04 -2.33e-04
## 3095 -6.75e-03 6.66e-03 1.89e-03 -3.62e-04 9.43e-04 1.43e-04 6.87e-04
## 3096 4.85e-04 -4.90e-04 5.69e-04 -4.82e-04 -4.92e-06 -1.56e-04 -5.53e-05
## 3097 -2.53e-03 2.53e-03 -9.45e-03 1.80e-03 4.77e-04 3.38e-04 -2.02e-04
## 3098 -3.38e-03 3.40e-03 4.43e-03 -1.93e-03 -4.01e-04 1.40e-04 4.04e-04
## 3099 -1.19e-03 1.18e-03 1.41e-03 1.23e-04 -6.62e-05 -7.85e-05 1.05e-03
## 3100 6.34e-04 -6.30e-04 -1.27e-04 -3.34e-04 -1.13e-04 -1.42e-05 -6.61e-06
## 3101 1.48e-03 -1.48e-03 -1.96e-03 7.23e-05 -1.03e-04 -1.26e-05 -3.43e-04
## 3102 -2.91e-03 2.94e-03 3.03e-03 -1.93e-03 -4.31e-04 1.58e-04 3.55e-04
## 3103 1.47e-04 -1.22e-04 2.57e-03 -1.71e-03 1.12e-04 9.16e-05 -2.29e-04
## 3104 -4.46e-03 4.48e-03 -6.95e-04 -1.15e-03 -2.07e-04 3.17e-04 2.97e-04
## 3105 -3.40e-04 3.41e-04 -2.38e-05 1.02e-05 -1.91e-06 2.11e-05 -3.58e-05
## 3106 4.13e-03 -4.14e-03 -2.65e-03 -6.84e-05 -4.21e-05 -2.83e-04 5.32e-04
## 3107 -2.96e-04 2.96e-04 -1.51e-04 1.02e-05 2.19e-05 1.79e-05 5.65e-05
## 3108 1.81e-03 -1.74e-03 2.58e-03 -4.90e-03 -7.27e-04 -1.08e-03 -2.71e-03
## 3109 4.99e-03 -4.98e-03 1.60e-03 -3.22e-04 -7.22e-05 -2.15e-04 -1.10e-03
## 3110 8.12e-03 -8.13e-03 -2.61e-03 -9.11e-05 7.87e-06 -4.05e-04 6.08e-04
## 3111 7.34e-04 -7.33e-04 1.84e-05 -1.78e-04 -7.01e-05 -3.16e-05 -2.13e-05
## 3112 -1.28e-03 1.25e-03 3.13e-03 9.87e-04 2.64e-04 3.32e-04 1.86e-03
## 3113 1.86e-03 -2.34e-03 2.04e-03 2.70e-02 4.08e-03 1.63e-02 2.70e-02
## 3114 -1.45e-02 1.46e-02 1.63e-02 -2.74e-03 -1.95e-04 4.18e-04 1.24e-03

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## 3115 -1.10e-03 1.09e-03 1.06e-03 3.64e-04 1.15e-04 1.53e-04 6.87e-04
## 3116 -2.16e-03 2.13e-03 3.56e-03 7.58e-04 2.45e-04 2.94e-04 1.55e-03
## 3117 9.44e-03 -9.42e-03 4.13e-03 -6.71e-04 -1.32e-04 -4.31e-04 -2.13e-03
## 3118 -2.32e-03 2.32e-03 -2.52e-04 1.89e-05 2.64e-04 9.70e-05 8.32e-04
## 3119 5.26e-03 -5.27e-03 -2.56e-03 -9.42e-05 -7.95e-05 -3.46e-04 4.81e-04
## 3120 2.92e-03 -2.93e-03 -1.05e-03 1.09e-04 -1.67e-04 -1.98e-04 5.24e-04
## 3121 6.29e-05 -6.29e-05 9.31e-06 -1.09e-06 -4.84e-06 -3.11e-06 -1.34e-05
## 3122 -7.60e-05 6.99e-05 -5.67e-04 -6.79e-06 1.75e-04 -1.05e-05 6.58e-04
## 3123 -1.35e-02 1.34e-02 -8.97e-03 1.54e-03 2.49e-03 1.45e-03 -1.18e-03
## 3124 -3.13e-03 3.13e-03 -5.84e-03 1.22e-03 3.67e-04 2.89e-04 -5.65e-05
## 3125 3.56e-04 -3.50e-04 -4.35e-04 -4.61e-04 -1.44e-04 1.63e-05 1.12e-05
## 3126 -3.17e-03 3.17e-03 7.08e-03 -7.66e-04 1.15e-05 6.12e-05 3.64e-04
## 3127 -2.41e-03 2.41e-03 3.23e-04 -1.92e-05 1.20e-04 5.43e-05 4.87e-04
## 3128 -2.65e-04 2.65e-04 1.50e-06 1.02e-06 1.20e-05 8.96e-06 4.13e-05
## 3129 -6.12e-03 6.13e-03 2.83e-03 -1.00e-03 -8.32e-05 2.92e-04 4.34e-04
## 3130 -2.50e-03 2.51e-03 -3.11e-04 -3.42e-04 -3.02e-05 1.61e-04 1.44e-04
## 3131 -1.88e-04 1.91e-04 -6.13e-04 -1.29e-04 -1.72e-05 5.72e-05 1.15e-05
## 3132 1.40e-03 -1.38e-03 -2.27e-03 -7.29e-04 2.09e-05 7.77e-05 -2.61e-04
## 3133 7.81e-03 -7.83e-03 -2.84e-03 1.75e-04 -3.74e-04 -4.55e-04 7.14e-04
## 3134 -1.47e-03 1.48e-03 8.68e-05 -5.32e-04 -3.74e-05 1.79e-04 1.29e-04
## 3135 -5.69e-03 5.70e-03 3.09e-03 -9.21e-04 -6.89e-05 2.57e-04 4.11e-04
## 3136 -4.52e-03 4.49e-03 2.66e-04 2.55e-03 8.43e-04 1.13e-04 2.19e-05
## 3137 -2.02e-03 2.03e-03 4.65e-04 5.60e-05 -1.27e-04 1.29e-04 -6.45e-04
## 3138 4.54e-04 -4.63e-04 8.31e-04 4.01e-05 -7.08e-05 -1.01e-04 5.06e-04
## 3139 -7.96e-04 7.44e-04 1.14e-02 -1.13e-04 -2.42e-04 -5.23e-04 2.59e-03
## 3140 3.00e-03 -3.01e-03 -2.52e-03 1.94e-05 -4.93e-05 -2.80e-04 -9.64e-04
## 3141 8.95e-03 -8.97e-03 -3.26e-03 2.00e-04 -4.28e-04 -5.21e-04 8.18e-04
## 3142 1.03e-02 -1.04e-02 1.18e-02 -8.03e-04 -2.74e-05 -9.45e-04 1.10e-03
## 3143 -1.04e-03 1.05e-03 -2.28e-04 4.12e-05 -1.92e-05 7.16e-05 -1.67e-04
## 3144 4.83e-03 -4.87e-03 6.94e-03 -3.05e-03 -1.02e-04 -1.13e-03 -3.38e-04
## 3145 1.41e-03 -1.44e-03 1.05e-02 -2.39e-03 -1.73e-05 -8.55e-04 -1.96e-05
## 3146 1.79e-02 -1.83e-02 -1.11e-02 3.73e-03 2.48e-03 9.16e-05 -3.53e-03
## 3147 -1.88e-03 1.90e-03 1.50e-02 -2.72e-03 1.90e-04 -1.02e-04 6.46e-05
## 3148 -6.61e-03 6.65e-03 -7.75e-03 2.82e-03 1.71e-04 1.17e-03 3.74e-04
## 3149 -3.31e-04 3.35e-04 -3.17e-04 3.54e-05 -5.71e-06 1.02e-04 3.07e-04
## 3150 -1.00e-03 1.00e-03 6.19e-04 -2.03e-05 4.53e-05 -2.30e-05 -1.72e-04
## 3151 -1.33e-03 1.32e-03 5.74e-03 -2.75e-04 2.32e-04 -1.28e-04 9.74e-04
## 3152 2.99e-03 -2.98e-03 -3.26e-03 9.04e-04 -1.14e-04 1.43e-04 -1.33e-04
## 3153 1.43e-02 -1.50e-02 8.75e-03 3.28e-03 5.66e-03 -2.35e-03 -4.99e-03
## 3154 -2.04e-03 2.04e-03 1.01e-03 -2.08e-05 8.21e-05 6.51e-06 -1.72e-04
## 3155 2.26e-03 -2.28e-03 3.65e-03 -1.50e-03 -4.71e-05 -5.54e-04 -1.55e-04
## 3156 5.13e-03 -5.16e-03 1.10e-03 -2.18e-04 -8.97e-05 -6.60e-04 -1.64e-03
## 3157 -1.26e-03 1.25e-03 -1.60e-04 7.49e-07 7.81e-05 -8.55e-05 -5.69e-04
## 3158 -1.04e-02 9.73e-03 3.41e-04 3.85e-03 6.04e-03 -7.04e-04 -3.68e-03
## 3159 1.15e-02 -1.15e-02 5.79e-03 -2.70e-03 -2.21e-04 -5.33e-04 -8.05e-04
## 3160 3.97e-03 -3.96e-03 -2.66e-03 9.12e-04 -1.49e-04 8.75e-05 -1.61e-04
## 3161 2.59e-04 -2.46e-04 -1.63e-03 1.19e-03 -3.58e-05 3.19e-04 6.39e-05
## 3162 2.60e-03 -2.60e-03 7.64e-04 -2.04e-04 7.91e-05 -2.34e-04 -6.48e-04
## 3163 1.46e-02 -1.46e-02 -1.05e-02 1.42e-04 -1.75e-04 -5.24e-04 1.71e-04
## 3164 -2.66e-03 2.67e-03 7.06e-04 -3.19e-04 3.42e-05 1.84e-04 1.77e-04
## 3165 4.09e-03 -4.06e-03 -9.43e-03 -1.09e-03 -5.20e-04 1.20e-04 -2.93e-04
## 3166 6.11e-04 -6.10e-04 -3.44e-05 -3.77e-06 -5.24e-05 -2.57e-05 -1.55e-04
## 3167 4.51e-04 -4.58e-04 1.92e-03 2.16e-04 6.88e-05 -9.36e-05 -2.56e-06
## 3168 3.93e-03 -3.89e-03 9.20e-05 -2.30e-03 4.17e-05 3.00e-05 -5.77e-04

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## 3169  1.97e-03 -1.98e-03  3.75e-05  9.06e-05 -1.46e-04 -1.86e-04  6.71e-04
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## 3171 -8.37e-03  8.36e-03 -5.91e-03  3.16e-04  8.58e-04  5.10e-04  2.48e-03
## 3172 -7.80e-03  7.77e-03  1.50e-02  2.45e-04  1.65e-04 -9.64e-05  8.48e-04
## 3173  3.80e-04 -3.95e-04  4.74e-03  3.51e-04  1.38e-04 -1.82e-04  4.40e-05
## 3174  1.91e-03 -1.90e-03  2.06e-04 -1.55e-05 -2.17e-04 -7.96e-05 -6.83e-04
## 3175  4.27e-03 -4.29e-03 -3.14e-03  2.65e-04 -2.61e-04 -2.63e-04  9.22e-04
## 3176 -6.25e-03  6.28e-03  2.23e-03 -1.12e-03  2.90e-04  3.92e-04  1.45e-04
## 3177  6.55e-04 -6.41e-04 -2.41e-03 -5.03e-04  3.00e-05  9.88e-05 -1.92e-04
## 3178  2.28e-02 -2.28e-02 -1.44e-02 -3.06e-05 -5.22e-04 -1.11e-03  3.62e-04
## 3179 -5.02e-04  4.92e-04  6.76e-04  5.76e-04  1.07e-04 -1.04e-04 -2.26e-05
## 3180 -2.67e-03  2.70e-03  1.96e-04 -1.70e-03  2.22e-04  3.25e-04 -1.77e-04
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## 3182  5.69e-04 -5.54e-04 -4.05e-03  2.20e-04 -2.46e-04  1.27e-04 -1.04e-03
## 3183  8.86e-03 -9.25e-03  1.61e-03  1.89e-03  3.02e-03 -1.24e-03 -2.81e-03
## 3184  1.83e-03 -1.85e-03  5.08e-05 -9.80e-05  1.09e-05 -4.08e-04 -1.32e-03
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## 3186  1.06e-03 -1.07e-03 -2.15e-03  3.34e-05  2.15e-05 -2.20e-04 -9.95e-04
## 3187  3.30e-03 -3.84e-03 -1.21e-02  3.59e-03  4.75e-03 -8.86e-04 -3.98e-03
## 3188  3.65e-03 -3.64e-03  8.13e-03 -1.56e-03 -4.54e-04 -3.70e-04  1.03e-04
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## 3190  5.10e-04 -5.12e-04  4.36e-05 -8.88e-05  9.04e-05 -7.63e-05 -3.73e-04
## 3191 -2.36e-03  1.78e-03 -4.97e-04  3.26e-02  5.24e-03  1.98e-02  3.26e-02
## 3192 -3.26e-04  3.25e-04 -5.71e-04  2.42e-05  2.14e-05 -7.25e-06 -1.60e-04
## 3193  4.06e-04 -4.04e-04  5.35e-04 -2.31e-05 -2.51e-05  9.07e-06  1.75e-04
## 3194  5.73e-05 -5.67e-05  4.24e-04 -1.54e-05 -8.71e-06  1.05e-05  1.09e-04
## 3195 -1.13e-03  1.13e-03  4.30e-04  1.43e-05  2.20e-05  1.10e-04  3.11e-04
## 3196  2.76e-04 -2.72e-04  3.79e-03 -1.38e-04 -6.35e-05  7.79e-05  8.70e-04
## 3197 -5.88e-03  5.86e-03  5.56e-03 -2.29e-04  2.87e-04 -3.00e-04 -1.40e-03
## 3198 -1.52e-04  1.57e-04 -4.94e-05  5.55e-04 -1.00e-05  1.50e-04  6.18e-05
## 3199 -4.77e-04  4.80e-04  2.97e-04  7.67e-06  9.34e-07  7.83e-05  2.74e-04
## 3200  1.12e-03 -1.14e-03 -1.55e-03 -4.08e-05  7.25e-05 -4.75e-04 -1.92e-03
## 3201  1.28e-04 -1.29e-04 -1.26e-04 -4.90e-05 -2.52e-06 -1.66e-05 -1.42e-05
## 3202 -3.09e-03  3.08e-03  5.98e-03 -2.30e-03  7.14e-04 -3.03e-04 -3.53e-04
## 3203  2.93e-02 -2.97e-02 -2.18e-02  4.02e-03  2.15e-03 -2.04e-04 -4.33e-03
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## 3205  1.16e-03 -1.15e-03  1.58e-03 -1.00e-03 -1.82e-04  6.25e-05  7.49e-05
## 3206  1.98e-03 -1.97e-03 -4.12e-03 -9.58e-04 -3.68e-04  6.53e-05 -9.91e-05
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## 3209 -8.99e-03  8.98e-03  3.11e-03 -5.26e-05  7.13e-04  3.13e-04  2.14e-03
## 3210 -4.63e-03  4.63e-03  4.88e-03 -8.89e-04 -7.02e-05  1.43e-04  3.91e-04
## 3211  1.66e-03 -1.65e-03  1.35e-03 -8.45e-04  2.90e-07 -4.49e-05 -1.81e-04
## 3212  7.43e-03 -7.45e-03 -8.17e-03  1.93e-03  3.49e-05 -4.79e-04 -7.14e-04
## 3213 -2.11e-02  2.10e-02  1.37e-02 -3.87e-04  1.53e-03  5.76e-04  4.67e-03
## 3214  5.00e-03 -4.98e-03 -2.51e-03 -1.01e-03 -8.04e-05 -8.26e-05 -4.75e-04
## 3215  1.76e-03 -1.75e-03  4.59e-04 -7.26e-04 -7.25e-06 -3.36e-05 -1.92e-04
## 3216  7.91e-03 -7.92e-03 -4.85e-03 -5.40e-05 -1.52e-04 -4.38e-04  3.96e-04
## 3217  3.69e-04 -3.66e-04  2.99e-04 -1.87e-04  6.44e-08 -9.95e-06 -4.02e-05
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## 3219  1.90e-04 -1.75e-04  1.42e-03  1.70e-05 -4.38e-04  2.63e-05 -1.64e-03
## 3220  2.56e-03 -2.57e-03 -1.24e-03  1.68e-04 -5.72e-05 -1.31e-04 -1.66e-04
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## 3222  1.67e-04 -1.67e-04  2.49e-07 -8.84e-06 -2.03e-06 -5.41e-06 -4.09e-05

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## 3223 7.05e-03 -7.02e-03 6.21e-03 -3.37e-03 -1.08e-03 -4.08e-04 4.47e-05
## 3224 4.86e-03 -4.83e-03 -2.86e-04 -2.74e-03 -9.06e-04 -1.21e-04 -2.35e-05
## 3225 -1.77e-02 1.78e-02 3.24e-03 -1.60e-03 7.59e-05 9.35e-04 1.06e-03
## 3226 -4.75e-04 4.48e-04 5.58e-03 8.25e-04 -7.91e-05 -2.49e-04 3.39e-04
## 3227 8.07e-03 -8.09e-03 -5.13e-04 1.00e-03 -3.53e-04 -5.37e-04 -1.93e-04
## 3228 3.66e-04 -3.68e-04 2.38e-04 1.04e-04 2.16e-05 -3.20e-05 -2.17e-05
## 3229 -7.52e-03 7.49e-03 -1.36e-03 1.79e-03 1.29e-04 2.65e-04 6.05e-04
## 3230 -9.10e-03 9.08e-03 -1.65e-03 2.17e-03 1.56e-04 3.21e-04 7.33e-04
## 3231 -2.78e-03 2.77e-03 1.29e-03 -4.05e-05 2.67e-04 7.90e-05 8.53e-04
## 3232 -5.28e-03 5.31e-03 5.38e-03 -2.34e-03 3.33e-04 3.66e-04 -1.75e-05
## 3233 5.90e-04 -5.88e-04 -3.30e-04 -1.33e-04 -3.98e-05 3.45e-06 -2.14e-05
## 3234 4.81e-03 -4.77e-03 -1.45e-02 2.42e-03 -1.78e-04 6.33e-04 -3.70e-04
## 3235 -4.09e-04 4.19e-04 -1.49e-03 1.07e-04 -2.04e-05 2.25e-04 6.26e-04
## 3236 -1.20e-03 1.21e-03 -4.67e-04 5.35e-04 2.72e-05 2.03e-04 9.60e-05
## 3237 1.41e-03 -1.40e-03 1.81e-04 4.85e-06 -2.49e-04 -4.37e-05 -8.48e-04
## 3238 3.20e-02 -3.21e-02 -2.29e-02 3.57e-03 -3.57e-04 -4.49e-05 2.87e-03
## 3239 -5.36e-04 5.44e-04 -1.92e-03 1.23e-04 -1.08e-04 1.06e-04 -5.25e-04
## 3240 2.72e-03 -2.71e-03 -3.32e-03 1.39e-04 -2.86e-04 -1.36e-05 -9.98e-04
## 3241 -1.45e-02 1.45e-02 6.69e-03 -2.38e-03 -1.97e-04 6.92e-04 1.03e-03
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## 3243 1.04e-02 -1.03e-02 -1.67e-02 -1.78e-03 -9.64e-04 3.59e-05 -6.82e-04
## 3244 8.68e-03 -8.69e-03 -4.42e-03 5.61e-06 -1.33e-04 -3.61e-04 4.79e-05
## 3245 -8.44e-06 8.35e-06 -8.62e-05 6.46e-06 -1.02e-06 1.42e-06 1.24e-05
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## 3247 -6.89e-03 6.89e-03 -3.70e-03 2.33e-04 5.78e-04 4.10e-04 1.57e-03
## 3248 -5.44e-03 5.43e-03 3.97e-03 9.39e-05 6.53e-05 7.10e-05 1.34e-03
## 3249 -3.85e-03 3.86e-03 -1.14e-03 -7.10e-04 -1.05e-04 2.77e-04 2.23e-04
## 3250 2.99e-03 -2.97e-03 -3.03e-03 -9.60e-04 -3.84e-04 -2.22e-05 -1.27e-04
## 3251 1.59e-03 -1.56e-03 -5.62e-03 -1.00e-03 5.45e-05 2.08e-04 -4.21e-04
## 3252 -1.52e-02 1.52e-02 2.46e-02 -3.41e-03 -2.77e-04 2.31e-04 1.49e-03
## 3253 5.24e-03 -5.25e-03 -5.39e-03 2.38e-04 -2.20e-04 -1.84e-04 1.81e-04
## 3254 -2.91e-02 2.87e-02 -7.40e-04 -2.99e-03 6.15e-03 2.87e-03 2.88e-03
## 3255 -1.24e-02 1.25e-02 8.96e-03 -2.62e-03 -2.97e-04 5.24e-04 9.90e-04
## 3256 -1.24e-02 1.24e-02 3.18e-03 -2.11e-03 -2.15e-04 6.75e-04 8.37e-04
## 3257 -1.32e-02 1.27e-02 1.22e-02 -2.41e-03 3.48e-03 1.16e-03 4.16e-03
## 3258 1.93e-03 -1.92e-03 9.05e-04 -1.75e-04 -5.29e-06 -6.81e-05 -6.39e-04
## 3259 5.68e-03 -5.62e-03 -1.15e-03 -3.00e-03 4.24e-05 5.09e-05 -8.16e-04
## 3260 1.03e-03 -1.04e-03 -8.02e-05 -2.15e-05 -7.34e-06 -5.73e-05 5.28e-05
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## 3265 -5.78e-03 5.83e-03 -7.81e-03 -1.86e-03 -4.47e-04 6.41e-04 2.83e-04
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## 3268 2.69e-02 -2.69e-02 2.40e-03 -1.64e-04 -1.18e-03 -1.78e-03 1.48e-03
## 3269 -2.60e-03 2.60e-03 -9.02e-04 7.45e-05 1.71e-04 1.49e-04 4.25e-04
## 3270 2.57e-03 -2.58e-03 -1.52e-03 -5.64e-06 -5.18e-05 -2.22e-04 -6.70e-04
## 3271 8.79e-04 -8.87e-04 -1.73e-03 2.20e-05 2.14e-05 -2.00e-04 -8.86e-04
## 3272 -1.03e-03 1.03e-03 1.90e-04 1.71e-05 3.69e-06 5.47e-05 -6.34e-05
## 3273 -3.20e-03 3.22e-03 1.13e-02 -2.86e-03 -5.96e-04 -3.46e-05 6.02e-04
## 3274 -5.26e-03 5.29e-03 5.64e-04 -2.08e-03 -4.32e-04 3.67e-04 4.34e-04
## 3275 -2.04e-03 2.04e-03 -1.03e-03 6.60e-05 1.70e-04 1.20e-04 4.63e-04
## 3276 9.09e-04 -8.84e-04 -5.78e-03 -1.03e-03 -3.75e-04 1.77e-04 -7.25e-05

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## 3277  1.72e-02 -1.79e-02 -2.87e-03  3.44e-03  5.10e-03 -2.07e-03 -5.04e-03
## 3278  1.21e-03 -1.23e-03  1.93e-03 -1.74e-04  3.02e-05 -4.41e-04 -1.30e-03
## 3279  1.33e-03 -1.34e-03  6.26e-04 -8.23e-05 -1.18e-05 -2.33e-04 -6.26e-04
## 3280  4.71e-04 -4.73e-04 -1.15e-04 -1.16e-05 -6.13e-06 -6.16e-05 -1.84e-04
## 3281 -9.98e-04  9.93e-04  7.43e-05 -6.80e-06  5.94e-05 -6.46e-05 -4.11e-04
## 3282  8.21e-04 -8.28e-04  2.23e-04 -6.06e-04 -1.16e-05 -1.99e-04 -9.26e-05
## 3283  2.69e-03 -2.70e-03 -3.19e-03  4.41e-05 -2.37e-05 -3.04e-04 -1.20e-03
## 3284  1.45e-03 -1.45e-03 -1.36e-03  1.68e-05 -2.46e-05 -1.26e-04 -4.49e-04
## 3285 -2.00e-02  2.00e-02 -7.61e-03  5.75e-03  2.09e-03  1.04e-03  3.71e-04
## 3286 -9.92e-05  1.04e-04  9.91e-04 -1.12e-05 -1.60e-04  5.84e-06 -5.98e-04
## 3287 -1.56e-02  1.55e-02  9.46e-03  2.91e-03  2.59e-04  2.27e-04  1.49e-03
## 3288  2.73e-04 -2.84e-04  2.48e-04 -6.85e-05  6.61e-05 -1.68e-06  7.30e-05
## 3289 -1.19e-02  1.19e-02 -3.76e-03  3.11e-04  8.49e-04  6.60e-04  2.22e-03
## 3290 -6.49e-03  6.50e-03  7.24e-03 -1.82e-03 -2.57e-04  2.17e-04  6.02e-04
## 3291  1.74e-03 -1.74e-03  1.19e-03 -5.42e-05 -2.29e-04 -9.61e-05 -7.13e-04
## 3292 -1.00e-02  1.00e-02 -9.66e-04  1.51e-04  7.64e-04  4.83e-04  2.13e-03
## 3293  7.36e-03 -7.36e-03  3.97e-03 -2.63e-04 -5.48e-04 -4.51e-04 -1.41e-03
## 3294  2.82e-05 -2.60e-05  2.11e-04  2.53e-06 -6.51e-05  3.90e-06 -2.44e-04
## 3295  1.54e-02 -1.58e-02  2.30e-03 -2.71e-03  2.85e-03  1.27e-06  2.89e-03
## 3296  2.55e-03 -2.55e-03 -2.40e-03  3.84e-05  3.02e-05 -8.67e-05  2.49e-04
## 3297  1.59e-05 -1.43e-05  8.86e-04 -2.20e-04 -3.01e-05  7.30e-06  3.79e-05
## 3298  8.71e-05 -9.12e-05 -5.73e-04  3.22e-04  4.43e-05 -4.37e-05 -4.80e-05
## 3299 -1.18e-03  1.18e-03 -3.38e-04 -1.03e-04  5.09e-09  7.89e-05  5.94e-05
## 3300  6.44e-04 -6.46e-04  1.41e-04 -2.54e-05  1.18e-05 -4.41e-05  1.03e-04
## 3301  2.04e-03 -2.04e-03 -2.31e-04  6.47e-06 -9.54e-05 -5.72e-05 -3.55e-04
## 3302 -3.89e-04  3.88e-04 -3.09e-04  1.48e-04  3.71e-06  1.56e-05  3.39e-05
## 3303  5.57e-04 -5.55e-04  3.05e-04 -5.32e-05 -1.19e-06 -2.05e-05 -1.88e-04
## 3304  1.19e-03 -1.18e-03  6.13e-03 -2.07e-04 -5.27e-04 -1.52e-04 -1.76e-03
## 3305 -5.99e-04  5.95e-04  2.32e-04  2.88e-04  9.98e-05  1.14e-05  1.06e-05
## 3306  4.85e-04 -4.59e-04  1.01e-03 -2.15e-03 -6.06e-04  4.66e-05  1.68e-04
## 3307 -4.68e-03  4.67e-03 -1.71e-02  4.34e-03  1.17e-03  5.65e-04 -4.46e-04
## 3308 -7.18e-04  7.15e-04 -2.33e-03  6.19e-04  1.69e-04  8.02e-05 -5.93e-05
## 3309  9.00e-03 -9.14e-03  5.29e-02  1.84e-03  8.28e-04 -2.19e-03  4.25e-04
## 3310  1.83e-03 -1.83e-03 -1.34e-03 -3.16e-05 -2.20e-05 -2.39e-05 -4.53e-04
## 3311 -8.42e-03  8.44e-03  1.63e-02 -3.02e-03 -4.44e-04  1.01e-04  9.67e-04
## 3312  3.45e-03 -3.46e-03 -4.84e-04 -6.88e-05  1.07e-05 -1.92e-04  3.07e-04
## 3313  6.76e-03 -6.77e-03 -3.06e-03  8.18e-04 -2.79e-04 -3.59e-04 -2.46e-04
## 3314 -8.81e-04  8.78e-04  8.61e-04 -3.42e-06  1.55e-05  1.06e-05  1.72e-04
## 3315  6.75e-04 -6.78e-04 -9.10e-04 -1.59e-05  1.55e-05 -6.63e-05  2.66e-04
## 3316  2.99e-02 -2.99e-02 -6.71e-03 -3.46e-04 -5.90e-04 -1.47e-03 -7.59e-05
## 3317 -1.72e-03  1.72e-03 -3.82e-04  3.05e-05  1.58e-04  8.42e-05  4.64e-04
## 3318 -3.07e-03  3.06e-03 -2.70e-03  1.47e-03  4.68e-04  1.77e-04 -1.95e-05
## 3319  3.34e-03 -3.35e-03 -2.36e-03  1.57e-04 -1.76e-04 -1.80e-04  4.55e-04
## 3320 -5.82e-03  5.79e-03  1.14e-02  4.88e-04  4.19e-04 -5.74e-05  4.63e-04
## 3321 -6.71e-03  6.96e-03  1.02e-02  6.81e-04 -2.36e-03  2.40e-04 -4.70e-04
## 3322  2.26e-03 -2.26e-03 -1.71e-03 -4.00e-06 -4.72e-05 -4.80e-05 -3.70e-04
## 3323 -1.49e-02  1.48e-02  5.39e-03  4.52e-03  1.34e-04  1.50e-04  1.62e-03
## 3324 -5.30e-03  5.32e-03  4.51e-03 -1.51e-03 -5.12e-05  4.14e-04  4.99e-04
## 3325  3.40e-04 -3.32e-04  4.17e-03 -1.25e-03 -3.17e-04 -8.56e-05  1.64e-04
## 3326 -7.95e-03  7.99e-03 -1.24e-03 -2.05e-03 -3.69e-04  5.66e-04  5.29e-04
## 3327  2.75e-03 -2.76e-03  1.06e-03 -1.20e-04  4.86e-06 -1.93e-04  2.75e-04
## 3328 -3.27e-03  3.26e-03 -2.24e-03  1.02e-04  4.30e-04  1.80e-04  1.34e-03
## 3329 -5.93e-03  5.96e-03  7.63e-03 -2.31e-03  3.40e-04  3.24e-04  8.59e-05
## 3330  4.96e-03 -4.98e-03  3.02e-04 -1.75e-04  1.69e-04 -3.31e-04  1.07e-03

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## 3331  4.66e-04 -4.65e-04  2.45e-04 -3.88e-05 -4.28e-06 -2.01e-05 -1.26e-04
## 3332 -1.46e-03  1.45e-03 -1.99e-03  5.88e-05  3.54e-04  8.02e-05  1.20e-03
## 3333  9.63e-04 -9.55e-04  9.51e-04 -7.96e-04 -2.40e-04 -4.26e-05  3.51e-05
## 3334 -4.14e-03  4.16e-03  1.83e-03 -1.48e-03 -2.82e-04  2.39e-04  3.56e-04
## 3335  8.79e-02 -8.81e-02 -2.68e-02  5.75e-03 -1.56e-03 -1.92e-03  4.94e-03
## 3336 -1.29e-03  1.29e-03  9.11e-05  1.03e-05  9.41e-05  5.64e-05  2.65e-04
## 3337  4.35e-03 -4.35e-03  2.55e-04 -5.86e-05 -3.28e-04 -2.05e-04 -9.15e-04
## 3338 -1.52e-03  1.52e-03 -7.65e-04  3.57e-04  2.92e-05  7.05e-05  1.06e-04
## 3339 -2.99e-03  2.94e-03  3.85e-03  2.13e-03 -8.36e-05 -1.95e-04  6.27e-04
## 3340  2.53e-03 -2.53e-03 -2.14e-03 -5.70e-04 -6.18e-05 -2.32e-04 -2.31e-04
## 3341 -1.52e-03  1.52e-03 -7.65e-04  3.57e-04  2.92e-05  7.05e-05  1.06e-04
## 3342  4.89e-06 -4.92e-06  7.35e-05 -6.73e-06  3.00e-06  1.05e-03 -2.27e-06
## 3343 -1.56e-04  1.67e-04 -3.48e-03 -2.27e-04 -9.63e-05  1.26e-04 -4.07e-05
## 3344 -9.94e-04  9.92e-04 -2.01e-03 -3.96e-04  5.11e-05 -2.00e-05 -5.00e-05
## 3345  1.24e-03 -1.25e-03 -2.67e-03 -7.26e-04 -1.26e-05 -2.02e-04 -2.03e-04
## 3346  4.95e-05 -4.92e-05 -3.39e-05 -1.22e-05 -5.69e-07 -2.69e-07 -5.38e-06
## 3347  9.75e-04 -9.68e-04  2.44e-03 -7.86e-05 -2.95e-04 -7.50e-05 -9.93e-04
## 3348  7.57e-03 -7.57e-03  1.74e-03 -1.57e-04 -5.94e-04 -3.90e-04 -1.64e-03
## 3349  4.46e-03 -4.47e-03  2.58e-03 -2.54e-04  1.07e-04 -3.56e-04  8.59e-04
## 3350  1.82e-03 -1.82e-03 -2.07e-03  1.27e-06 -8.82e-06 -1.11e-04  2.83e-04
## 3351 -4.85e-04  4.72e-04 -2.99e-04 -4.23e-05  1.33e-04  8.25e-06  6.83e-05
## 3352 -4.45e-03  4.44e-03 -1.32e-02  2.74e-03  7.52e-04  5.11e-04 -2.55e-04
## 3353 -7.43e-02  7.36e-02  7.38e-03 -2.36e-03  8.61e-03  2.36e-03  6.45e-03
## 3354 -1.36e-02  1.36e-02 -1.71e-03  8.37e-04 -2.44e-04  1.08e-03  2.87e-03
## 3355  6.49e-03 -6.48e-03  1.49e-03 -1.34e-04 -5.09e-04 -3.34e-04 -1.41e-03
## 3356  8.55e-03 -8.52e-03 -4.55e-03 -2.12e-03 -8.81e-04 -2.20e-04 -3.35e-04
## 3357  1.46e-02 -1.51e-02 -5.73e-03  2.79e-03  3.90e-03 -1.57e-03 -4.03e-03
## 3358  1.55e-03 -1.56e-03 -9.64e-04 -1.08e-05  7.55e-05 -7.73e-05  3.90e-04
## 3359  6.46e-03 -6.77e-03 -7.52e-03 -1.29e-03  2.50e-03 -7.30e-04  7.31e-04
## 3360 -3.70e-03  3.70e-03  1.20e-03 -6.39e-06  1.47e-04  4.43e-05 -2.68e-04
## 3361 -1.15e-02  1.15e-02 -3.90e-03  5.21e-04  2.40e-04  1.35e-03  2.98e-03
## 3362  2.56e-03 -2.57e-03 -2.80e-04  7.70e-05 -1.55e-04 -1.98e-04  5.38e-04
## 3363  1.53e-03 -1.52e-03 -3.30e-03  1.57e-04 -2.28e-04  4.53e-05 -8.65e-04
## 3364 -3.28e-03  3.32e-03 -5.59e-03  4.15e-04  5.75e-06  8.31e-04  2.01e-03
## 3365  4.46e-03 -4.45e-03  6.22e-04 -6.37e-05 -4.01e-04 -2.09e-04 -1.18e-03
## 3366 -4.82e-03  4.84e-03 -1.19e-03  1.97e-04  1.02e-04  5.48e-04  1.23e-03
## 3367  3.49e-03 -3.51e-03  4.51e-03 -3.04e-04  3.58e-05 -3.42e-04  5.63e-04
## 3368  2.56e-03 -2.57e-03 -2.80e-04  7.70e-05 -1.55e-04 -1.98e-04  5.38e-04
## 3369  2.93e-03 -2.95e-03  1.10e-04  7.59e-05 -1.83e-04 -2.44e-04  6.69e-04
## 3370 -4.90e-03  5.02e-03 -2.16e-03 -7.75e-04 -6.59e-04  1.25e-04  8.40e-04
## 3371 -1.42e-03  1.44e-03 -4.01e-03 -1.03e-03 -2.92e-04  2.49e-04  7.49e-05
## 3372  5.09e-02 -5.10e-02 -7.04e-04 -3.09e-04 -2.08e-03 -3.08e-03  1.31e-03
## 3373 -3.68e-03  3.69e-03 -2.14e-03  8.42e-04 -7.55e-05  3.52e-04  3.30e-04
## 3374  3.13e-04 -3.11e-04  5.48e-04 -1.94e-04 -5.72e-05 -2.43e-05  1.08e-05
## 3375  5.16e-04 -5.14e-04 -4.13e-04  1.75e-04 -2.07e-05  2.69e-05 -1.70e-05
## 3376 -4.55e-03  4.56e-03  8.20e-03 -1.84e-03 -3.04e-04  8.33e-05  5.27e-04
## 3377 -1.45e-03  1.45e-03  2.05e-04 -6.10e-04  6.48e-05 -9.00e-05  9.61e-06
## 3378  3.37e-03 -3.37e-03 -3.83e-03  7.40e-05 -6.11e-05 -2.51e-04 -9.67e-04
## 3379  1.80e-04 -1.82e-04 -1.14e-03  3.52e-05  1.20e-05 -4.42e-05 -3.01e-04
## 3380 -1.08e-04  9.96e-05 -8.08e-04 -9.69e-06  2.50e-04 -1.50e-05  9.37e-04
## 3381 -2.34e-03  2.35e-03 -1.59e-03 -4.57e-04 -8.05e-05  1.97e-04  1.21e-04
## 3382  1.89e-03 -1.88e-03  2.97e-03 -1.02e-04 -1.51e-04  1.72e-04  1.40e-03
## 3383  3.56e-04 -3.53e-04  3.52e-04 -2.95e-04 -8.89e-05 -1.57e-05  1.30e-05
## 3384  3.59e-04 -3.55e-04 -5.90e-04  3.66e-05 -9.49e-05  1.27e-05 -3.59e-04

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## 3385 -5.89e-06 8.76e-06 -1.65e-04 -2.09e-05 1.83e-05 2.27e-05 -1.71e-04
## 3386 -4.03e-03 4.05e-03 8.51e-04 -9.59e-04 -1.49e-04 2.38e-04 2.90e-04
## 3387 -1.00e-03 9.97e-04 3.82e-04 5.26e-05 6.15e-07 1.09e-05 3.54e-04
## 3388 -4.94e-03 4.91e-03 2.68e-03 1.11e-03 3.91e-04 5.47e-04 2.06e-03
## 3389 8.75e-05 -8.73e-05 1.21e-04 -3.34e-05 -1.13e-06 -5.24e-06 -6.02e-06
## 3390 -3.40e-03 3.41e-03 1.77e-03 -7.60e-04 1.66e-04 2.11e-04 6.92e-05
## 3391 2.08e-03 -2.06e-03 -4.91e-03 -4.36e-04 -2.32e-04 5.92e-05 -1.61e-04
## 3392 -7.99e-04 8.21e-04 -1.91e-03 -9.08e-04 1.09e-04 2.06e-04 -1.85e-04
## 3393 2.04e-03 -2.04e-03 7.67e-04 -5.50e-05 -1.65e-04 -1.13e-04 -4.54e-04
## 3394 -4.21e-04 4.09e-04 2.99e-03 -2.18e-04 8.04e-05 -1.77e-04 7.37e-04
## 3395 -2.51e-03 2.51e-03 2.57e-03 -1.33e-04 8.87e-05 1.43e-02 1.23e-04
## 3396 5.89e-03 -5.88e-03 9.41e-04 -3.28e-04 -8.92e-05 -2.33e-04 -1.27e-03
## 3397 3.52e-02 -3.53e-02 -2.19e-02 5.26e-05 -9.03e-04 -1.59e-03 -2.66e-04
## 3398 -1.13e-03 1.05e-03 2.63e-02 -1.65e-03 3.64e-04 -1.29e-03 4.07e-03
## 3399 1.79e-05 -1.79e-05 -1.31e-05 4.52e-07 -1.58e-06 -3.99e-07 -5.09e-06
## 3400 1.09e-03 -1.09e-03 4.05e-04 -2.03e-05 -1.33e-04 -5.24e-05 -4.18e-04
## 3401 -4.54e-03 4.53e-03 -4.92e-04 3.70e-05 5.16e-04 1.90e-04 1.63e-03
## 3402 -8.41e-03 8.43e-03 6.05e-03 -1.77e-03 -2.00e-04 3.54e-04 6.69e-04
## 3403 7.55e-03 -7.53e-03 8.52e-03 -2.88e-03 -9.29e-04 -5.28e-04 2.56e-05
## 3404 1.07e-03 -1.06e-03 1.37e-04 3.68e-06 -1.89e-04 -3.32e-05 -6.44e-04
## 3405 6.96e-03 -6.99e-03 -6.46e-03 1.56e-03 7.34e-05 2.61e-04 1.71e-03
## 3406 7.62e-03 -7.61e-03 5.59e-03 -7.25e-04 -6.12e-05 -3.62e-04 -2.14e-03
## 3407 1.94e-04 -1.83e-04 4.03e-04 -8.57e-04 -2.42e-04 1.86e-05 6.70e-05
## 3408 1.76e-04 -1.75e-04 6.46e-05 -1.73e-05 2.11e-05 -8.29e-03 -2.02e-05
## 3409 1.64e-03 -1.66e-03 2.45e-03 2.42e-05 -1.64e-04 -2.60e-04 9.60e-04
## 3410 3.34e-04 -3.26e-04 -2.38e-03 1.29e-04 -1.45e-04 7.47e-05 -6.10e-04
## 3411 1.41e-02 -1.41e-02 6.21e-03 -4.43e-04 -1.03e-03 -8.26e-04 -2.67e-03
## 3412 -2.05e-02 2.05e-02 -3.83e-02 8.00e-03 2.41e-03 1.89e-03 -3.70e-04
## 3413 1.27e-03 -1.27e-03 -3.60e-04 -2.29e-05 3.36e-05 -7.06e-05 2.23e-04
## 3414 8.84e-04 -8.84e-04 1.77e-04 -1.87e-05 -6.14e-05 -4.62e-05 -1.62e-04
## 3415 1.21e-02 -1.22e-02 -1.36e-02 8.51e-04 -6.62e-04 -5.47e-04 1.85e-03
## 3416 1.01e-02 -1.01e-02 -9.53e-03 1.53e-04 1.20e-04 -3.44e-04 9.90e-04
## 3417 3.43e-03 -3.26e-03 1.03e-02 3.94e-04 -1.49e-03 -8.30e-04 -1.36e-03
## 3418 1.19e-02 -1.19e-02 4.58e-03 -5.19e-04 2.10e-05 -8.34e-04 1.19e-03
## 3419 -5.93e-02 5.88e-02 8.27e-03 3.62e-03 6.38e-03 1.94e-03 -2.63e-04
## 3420 -1.44e-03 1.46e-03 5.80e-03 -1.91e-03 -2.24e-04 2.24e-04 3.74e-04
## 3421 -2.55e-03 2.54e-03 -5.83e-04 5.27e-05 2.00e-04 1.31e-04 5.52e-04
## 3422 2.43e-02 -2.48e-02 1.15e-02 2.61e-03 2.25e-03 -8.86e-04 -3.34e-03
## 3423 2.06e-02 -2.06e-02 -5.81e-03 -2.82e-05 -1.19e-03 -8.35e-04 -3.13e-03
## 3424 -1.82e-03 1.82e-03 2.28e-03 -4.86e-05 -4.66e-05 5.00e-05 -2.58e-04
## 3425 3.68e-04 -3.69e-04 -1.76e-04 -1.35e-06 -3.26e-07 -1.66e-05 2.31e-05
## 3426 2.04e-03 -2.04e-03 -3.75e-04 -3.39e-05 -7.31e-06 -1.08e-04 1.25e-04
## 3427 4.35e-04 -4.34e-04 4.67e-04 -2.02e-05 -6.25e-05 -2.79e-05 -1.93e-04
## 3428 -2.94e-03 2.94e-03 -1.29e-03 9.25e-05 2.15e-04 1.72e-04 5.56e-04
## 3429 -1.53e-03 1.52e-03 -8.42e-04 3.93e-05 1.94e-04 7.94e-05 6.06e-04
## 3430 8.31e-03 -8.30e-03 4.85e-03 -1.77e-03 -1.77e-04 -4.27e-04 -5.30e-04
## 3431 7.29e-04 -7.25e-04 1.83e-03 -5.88e-05 -2.21e-04 -5.61e-05 -7.43e-04
## 3432 -2.45e-02 2.45e-02 -8.68e-03 7.09e-04 1.61e-03 1.41e-03 4.00e-03
## 3433 4.49e-03 -4.50e-03 1.96e-03 -2.02e-04 -1.42e-05 -3.18e-04 3.70e-04
## 3434 7.52e-03 -7.49e-03 -3.35e-03 -2.17e-03 -7.24e-05 -6.69e-05 -8.19e-04
## 3435 4.67e-03 -4.68e-03 3.06e-03 -2.59e-04 -6.95e-06 -3.62e-04 4.47e-04
## 3436 9.78e-03 -9.75e-03 4.45e-03 -2.65e-03 -1.58e-04 -4.00e-04 -7.62e-04
## 3437 -2.65e-04 2.77e-04 2.27e-03 -9.29e-04 6.81e-05 3.99e-05 -8.29e-05
## 3438 1.40e-02 -1.41e-02 3.31e-03 -4.75e-05 -7.03e-04 -1.07e-03 1.60e-03

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## 3439  2.07e-02 -2.12e-02 -2.01e-02  3.50e-03  4.00e-03 -1.54e-03 -4.85e-03
## 3440 -3.71e-04  3.69e-04 -2.06e-03  4.58e-04  1.17e-04  6.08e-05 -5.81e-05
## 3441 -1.75e-03  1.74e-03 -2.56e-03  7.43e-04  2.30e-04  1.37e-04 -2.32e-05
## 3442 -7.62e-04  7.61e-04 -2.44e-04  4.92e-05  1.10e-05  3.28e-05  1.68e-04
## 3443 -6.29e-03  6.28e-03  1.23e-03  2.27e-06  5.19e-04  2.43e-04  1.55e-03
## 3444 -5.08e-04  5.20e-04  6.53e-04 -6.88e-04  6.70e-05  8.10e-05 -7.94e-05
## 3445  1.83e-02 -1.83e-02 -1.04e-02  1.33e-03 -2.44e-04 -7.36e-04 -1.20e-03
## 3446  1.53e-02 -1.54e-02 -1.32e-04  3.40e-05 -7.08e-04 -1.01e-03  1.16e-03
## 3447  2.54e-05 -2.56e-05 -4.69e-05  5.03e-06 -2.85e-06 -2.11e-06  1.76e-05
## 3448  1.35e-02 -1.35e-02 -3.45e-02 -4.94e-04 -8.79e-04  3.49e-04 -1.28e-03
## 3449 -2.92e-02  2.92e-02 -3.72e-02  9.50e-03  3.08e-03  2.25e-03 -4.81e-05
## 3450  1.86e-03 -1.83e-03  4.44e-03 -2.20e-03  8.07e-05 -1.14e-05 -3.34e-04
## 3451 -9.58e-04  9.34e-04  3.90e-03  4.75e-05 -1.05e-04 -1.87e-04  1.34e-03
## 3452 -3.51e-03  3.49e-03  8.02e-03 -1.65e-04  1.64e-05 -1.23e-04  1.12e-03
## 3453 -7.31e-03  7.34e-03  4.10e-03 -2.51e-03 -4.61e-04  3.90e-04  6.37e-04
## 3454 -7.59e-03  9.39e-03 -1.27e-01  1.38e-02 -1.08e-02  1.04e-03 -1.46e-02
## 3455  2.14e-02 -2.18e-02 -4.00e-02 -5.90e-04  2.28e-03  7.59e-04  1.15e-03
## 3456 -4.61e-02  4.60e-02 -4.31e-03  7.63e-04  3.13e-03  2.28e-03  8.30e-03
## 3457 -2.70e-03  2.70e-03 -1.29e-03  7.64e-05  2.63e-04  1.49e-04  7.65e-04
## 3458  5.01e-04 -5.04e-04 -1.79e-04  2.70e-05 -3.40e-05 -3.92e-05  1.40e-04
## 3459 -2.21e-03  2.28e-03 -5.40e-04 -6.40e-04 -5.94e-04 -1.10e-04  5.07e-04
## 3460 -2.47e-04  2.41e-04  1.97e-03  1.21e-04  6.18e-05 -5.28e-05  4.00e-05
## 3461  5.84e-04 -5.93e-04  4.22e-04  5.38e-05 -7.27e-05 -9.50e-05  4.76e-04
## 3462  1.20e-03 -1.19e-03 -5.74e-03 -1.19e-05 -9.72e-05  1.11e-04 -1.67e-04
## 3463  6.73e-03 -6.72e-03 -1.69e-04 -6.67e-05 -4.97e-04 -3.03e-04 -1.39e-03
## 3464  3.70e-04 -3.67e-04  1.48e-03 -4.95e-05 -1.42e-04 -3.92e-05 -4.75e-04
## 3465 -4.83e-03  5.89e-03  5.32e-03 -6.10e-02 -9.15e-03 -3.69e-02 -6.04e-02
## 3466 -2.44e-03  2.42e-03 -2.73e-03  5.00e-04 -1.18e-04  3.69e-06  1.98e-03
## 3467  4.29e-03 -4.30e-03 -3.17e-03  2.05e-04 -2.24e-04 -2.26e-04  5.67e-04
## 3468 -1.83e-02  1.79e-02  3.21e-02 -4.94e-03  6.09e-03  1.46e-03  3.23e-03
## 3469  3.18e-03 -3.19e-03 -3.62e-03  2.23e-06 -1.54e-05 -1.95e-04  4.94e-04
## 3470 -4.57e-03  4.61e-03  3.26e-03 -2.31e-03  3.18e-04  3.95e-04 -1.09e-04
## 3471  1.71e-03 -1.70e-03 -4.36e-03 -5.86e-05 -8.15e-05  7.46e-05 -1.57e-04
## 3472 -1.73e-03  1.73e-03  6.52e-04  5.36e-05  2.46e-05  4.25e-05  3.90e-04
## 3473  4.03e-05 -3.96e-05 -3.79e-05  4.07e-06 -1.70e-05  1.75e-06 -6.39e-05
## 3474 -1.26e-03  1.26e-03  1.85e-03 -6.86e-05  8.20e-05  6.44e-06  2.75e-04
## 3475 -1.62e-02  1.62e-02  6.83e-03 -1.11e-04  1.09e-03  5.66e-04  3.13e-03
## 3476  1.36e-02 -1.35e-02 -2.76e-02 -8.67e-04 -9.11e-04  1.54e-04 -1.12e-03
## 3477 -5.27e-03  5.26e-03  3.34e-03 -9.38e-05  3.84e-04  1.46e-04  1.17e-03
## 3478  6.47e-05 -4.75e-05 -5.80e-05 -9.83e-04 -1.60e-04 -6.05e-04 -9.87e-04
## 3479  2.48e-03 -2.46e-03 -1.21e-03 -1.13e-03  8.63e-06  2.63e-05 -3.46e-04
## 3480  2.05e-03 -2.04e-03  5.20e-05 -9.00e-05 -3.75e-05 -8.01e-05 -3.80e-04
## 3481 -4.45e-03  4.47e-03 -1.32e-03 -8.23e-04 -1.22e-04  3.21e-04  2.59e-04
## 3482 -4.90e-03  4.91e-03  3.89e-03 -1.55e-03 -2.60e-04  2.20e-04  4.39e-04
## 3483 -3.83e-04  4.52e-04  1.77e-04 -3.94e-03 -6.20e-04 -2.40e-03 -3.91e-03
## 3484 -7.68e-03  7.70e-03  7.73e-03 -2.26e-03 -3.40e-04  2.87e-04  7.04e-04
## 3485 -7.68e-03  7.70e-03  7.73e-03 -2.26e-03 -3.40e-04  2.87e-04  7.04e-04
## 3486  1.73e-03 -1.73e-03 -1.63e-03  7.15e-05 -2.08e-04 -1.80e-05 -7.21e-04
## 3487  1.02e-03 -1.02e-03  2.81e-04 -2.60e-05 -6.59e-05 -5.63e-05 -1.65e-04
## 3488  1.86e-03 -1.87e-03 -1.55e-03 -7.57e-06 -8.36e-06 -2.70e-04 -9.82e-04
## 3489  9.14e-06 -1.36e-05  2.57e-04  3.24e-05 -2.84e-05 -3.52e-05  2.65e-04
## 3490  6.30e-03 -6.29e-03 -2.75e-03  6.03e-05 -4.87e-04 -2.05e-04 -1.47e-03
## 3491  4.28e-03 -4.28e-03  1.61e-03 -1.15e-04 -3.47e-04 -2.37e-04 -9.51e-04
## 3492 -7.86e-03  7.88e-03  3.89e-03 -1.75e-03 -2.33e-04  3.90e-04  5.99e-04

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## 3493 5.74e-02 -5.81e-02 -7.16e-02 -1.60e-03 4.97e-03 -2.51e-03 -1.34e-03
## 3494 9.73e-04 -9.70e-04 7.64e-04 -3.02e-04 -1.46e-05 -4.64e-05 -7.26e-05
## 3495 -4.88e-03 4.91e-03 5.11e-03 -2.14e-03 3.05e-04 3.31e-04 -6.97e-06
## 3496 9.41e-05 -9.38e-05 8.30e-05 -4.50e-05 -1.44e-05 -5.44e-06 5.97e-07
## 3497 5.91e-03 -5.92e-03 -3.44e-02 5.26e-03 9.51e-04 4.77e-04 -1.37e-03
## 3498 1.29e-02 -1.29e-02 -3.63e-03 -1.25e-04 -2.07e-04 -6.21e-04 1.31e-04
## 3499 -7.23e-05 7.12e-05 -1.19e-03 4.17e-05 7.56e-05 2.51e-05 2.51e-04
## 3500 1.95e-02 -2.00e-02 8.61e-03 3.09e-03 2.63e-03 -4.98e-04 -3.35e-03
## 3501 8.77e-05 -8.67e-05 1.64e-04 -2.32e-05 5.55e-06 -5.61e-07 -8.33e-05
## 3502 -4.05e-04 3.95e-04 -1.22e-02 4.28e-04 7.16e-04 2.47e-04 2.37e-03
## 3503 3.08e-03 -3.08e-03 -1.01e-03 -2.97e-05 -1.52e-05 -1.50e-04 1.59e-04
## 3504 1.27e-02 -1.28e-02 -1.19e-02 2.33e-03 2.51e-05 3.09e-04 2.30e-03
## 3505 -4.29e-04 4.50e-04 2.82e-03 -1.59e-03 -2.18e-04 2.16e-04 2.36e-04
## 3506 1.39e-04 -1.16e-04 2.43e-03 -1.62e-03 1.06e-04 8.67e-05 -2.17e-04
## 3507 8.67e-05 -5.90e-05 -1.72e-03 -1.31e-03 1.08e-04 1.95e-04 -2.89e-04
## 3508 1.73e-03 -1.74e-03 2.23e-03 -1.51e-04 1.77e-05 -1.69e-04 2.79e-04
## 3509 -7.11e-03 7.12e-03 6.69e-03 -1.24e-04 -1.92e-06 2.27e-04 -3.76e-04
## 3510 1.23e-03 -1.20e-03 7.73e-03 -2.67e-03 1.20e-04 -3.55e-05 -2.88e-04
## 3511 -3.92e-04 3.94e-04 4.88e-04 -1.56e-04 2.28e-05 2.23e-05 4.58e-06
## 3512 1.23e-03 -1.20e-03 7.73e-03 -2.67e-03 1.20e-04 -3.55e-05 -2.88e-04
## 3513 6.59e-03 -6.60e-03 3.12e-03 -3.04e-04 -4.56e-05 -4.70e-04 4.54e-04
## 3514 -6.04e-05 6.11e-05 -7.57e-08 4.19e-06 -1.33e-05 5.93e-06 -5.66e-05
## 3515 5.86e-03 -5.85e-03 5.64e-04 -8.83e-05 -4.46e-04 -2.82e-04 -1.24e-03
## 3516 -3.34e-04 3.34e-04 1.59e-04 4.20e-05 1.73e-05 5.27e-06 1.50e-05
## 3517 -4.41e-03 4.37e-03 -8.37e-03 4.66e-03 1.34e-03 2.69e-04 -3.19e-04
## 3518 -1.58e-02 1.58e-02 -1.78e-02 6.04e-03 1.95e-03 1.11e-03 -5.37e-05
## 3519 -5.03e-03 5.17e-03 1.44e-02 2.23e-04 -1.00e-03 -4.40e-04 -6.39e-04
## 3520 -1.53e-03 1.52e-03 -3.98e-04 6.30e-04 6.29e-06 2.91e-05 1.66e-04
## 3521 1.11e-04 -1.11e-04 -9.29e-05 2.71e-06 -6.65e-06 -2.70e-06 -1.97e-05
## 3522 1.82e-03 -1.83e-03 3.65e-03 -2.24e-04 5.19e-05 -2.21e-04 4.63e-04
## 3523 -9.45e-04 9.56e-04 1.96e-04 -5.76e-04 7.61e-05 1.08e-04 -5.45e-05
## 3524 2.68e-03 -2.68e-03 -1.04e-03 1.16e-04 -2.54e-04 -3.77e-05 3.95e-04
## 3525 4.62e-03 -4.64e-03 -2.27e-05 -1.46e-04 -8.42e-05 -5.42e-04 -1.40e-03
## 3526 -1.16e-02 1.16e-02 -4.59e-04 3.56e-04 2.50e-04 1.21e-03 2.84e-03
## 3527 -1.14e-03 1.14e-03 1.67e-04 6.64e-06 4.62e-05 1.66e-05 -9.78e-05
## 3528 -4.95e-03 4.96e-03 -3.40e-03 5.63e-04 -2.66e-04 5.55e-04 1.58e-03
## 3529 1.51e-02 -1.57e-02 -1.85e-03 3.04e-03 4.56e-03 -1.85e-03 -4.46e-03
## 3530 4.20e-03 -4.20e-03 -1.05e-02 -6.26e-04 -8.78e-05 -1.87e-04 -5.41e-04
## 3531 -9.80e-03 9.46e-03 -1.68e-02 -8.03e-04 3.50e-03 2.99e-04 1.49e-03
## 3532 -6.30e-03 6.28e-03 1.85e-02 6.26e-04 -2.35e-04 1.71e-07 1.13e-03
## 3533 5.04e-02 -5.05e-02 -6.96e-04 -3.06e-04 -2.05e-03 -3.04e-03 1.30e-03
## 3534 -9.25e-04 9.66e-04 -1.57e-02 -5.90e-04 -3.06e-04 5.58e-04 -2.08e-04
## 3535 4.67e-03 -4.78e-03 1.03e-02 -1.48e-03 1.16e-03 -2.04e-04 4.05e-04
## 3536 -1.49e-03 1.48e-03 -1.31e-03 7.10e-04 2.27e-04 8.60e-05 -9.43e-06
## 3537 4.75e-03 -4.74e-03 3.35e-03 -1.79e-04 -4.87e-04 -2.89e-04 -1.40e-03
## 3538 1.80e-02 -1.83e-02 -2.54e-03 2.66e-03 1.88e-03 -2.95e-04 -2.88e-03
## 3539 1.42e-05 -1.42e-05 1.47e-05 -4.25e-06 -1.43e-06 -1.01e-06 -7.18e-08
## 3540 2.26e-03 -2.27e-03 -1.35e-03 7.68e-04 1.39e-04 -1.18e-04 -1.98e-04
## 3541 4.53e-03 -4.52e-03 3.55e-03 -9.84e-04 -2.71e-04 -2.04e-04 -5.73e-05
## 3542 9.39e-04 -9.60e-04 6.54e-03 2.59e-04 -8.96e-05 -2.98e-04 2.06e-04
## 3543 3.08e-03 -3.07e-03 8.06e-04 -4.04e-04 -1.51e-04 -1.29e-04 -9.54e-05
## 3544 6.83e-04 -6.88e-04 1.71e-03 -1.04e-04 3.70e-05 -9.62e-05 2.53e-04
## 3545 1.75e-03 -1.74e-03 6.23e-04 -7.49e-04 -5.89e-06 -3.57e-05 -1.90e-04
## 3546 -8.51e-03 8.50e-03 -2.68e-03 2.22e-04 6.06e-04 4.71e-04 1.58e-03

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## 3547  6.82e-03 -6.81e-03 -9.31e-04 -3.55e-05 -4.91e-04 -2.88e-04 -1.39e-03
## 3548 -4.29e-03  4.29e-03 -8.01e-03  1.67e-03  5.04e-04  3.96e-04 -7.74e-05
## 3549  1.96e-03 -1.96e-03 -2.21e-04  1.22e-06 -2.10e-04 -7.19e-05 -6.65e-04
## 3550 -1.15e-04  1.22e-04 -1.69e-03 -2.37e-04 -8.12e-05  6.92e-05 -7.68e-06
## 3551 -8.69e-02  8.67e-02  1.77e-02  3.04e-03  4.69e-03  4.55e-03  3.04e-03
## 3552  2.11e-03 -2.10e-03  3.96e-03 -1.35e-03 -3.95e-04 -1.70e-04  8.09e-05
## 3553 -1.20e-03  1.20e-03 -2.84e-03  6.48e-04  1.85e-04  1.20e-04 -4.75e-05
## 3554 -1.41e-03  1.41e-03  1.56e-03  4.23e-04  1.75e-04  8.24e-06  6.49e-05
## 3555 -3.59e-03  3.58e-03  7.00e-03  3.07e-04  2.60e-04 -3.50e-05  2.85e-04
## 3556  2.05e-04 -2.04e-04  1.05e-04 -9.35e-05 -4.41e-07 -4.65e-06 -2.23e-05
## 3557 -5.21e-03  5.22e-03  3.14e-03 -7.67e-04  5.36e-05  3.22e-04  3.93e-04
## 3558 -1.26e-02  1.26e-02  6.74e-03 -2.04e-03 -1.55e-04  5.73e-04  9.09e-04
## 3559 -2.29e-04  2.24e-04 -1.90e-03  1.80e-04 -4.37e-05  1.11e-05  4.89e-04
## 3560  5.39e-03 -5.38e-03  1.70e-03 -1.41e-04 -3.83e-04 -2.98e-04 -1.00e-03
## 3561 -3.48e-03  3.44e-03  6.10e-03  1.54e-03 -3.38e-05 -1.79e-04  6.14e-04
## 3562  1.25e-04 -1.18e-04  2.60e-04 -5.51e-04 -1.56e-04  1.20e-05  4.31e-05
## 3563  3.89e-03 -3.87e-03  3.43e-03 -1.86e-03 -5.93e-04 -2.25e-04  2.47e-05
## 3564 -4.56e-03  4.57e-03 -5.66e-04 -6.22e-04 -5.49e-05  2.93e-04  2.62e-04
## 3565 -4.94e-02  4.90e-02  4.26e-03  3.64e-03  4.09e-03  3.08e-03  4.69e-04
## 3566 -2.31e-03  2.29e-03  4.71e-03 -2.37e-04  4.06e-04 -7.16e-05  1.54e-03
## 3567 -2.69e-02  2.69e-02 -1.46e-02  9.62e-04  2.00e-03  1.65e-03  5.15e-03
## 3568  1.96e-03 -1.96e-03 -2.21e-04  1.22e-06 -2.10e-04 -7.19e-05 -6.65e-04
## 3569  4.72e-04 -4.57e-04  6.48e-03 -1.80e-03 -2.60e-04  6.90e-05  2.80e-04
## 3570  1.47e-02 -1.50e-02 -5.44e-02  4.31e-03  4.53e-03  1.92e-03 -5.85e-03
## 3571 -1.53e-04  1.43e-04  2.19e-03 -2.17e-05 -4.65e-05 -1.01e-04  4.97e-04
## 3572 -6.29e-03  6.33e-03 -7.36e-03 -1.31e-03 -2.73e-04  6.28e-04  2.72e-04
## 3573 -8.83e-03  8.78e-03  2.69e-02  1.43e-04  5.70e-04 -3.54e-04  9.36e-04
## 3574  1.47e-03 -1.49e-03  1.92e-03  2.79e-05 -1.42e-04 -2.21e-04  8.14e-04
## 3575 -2.84e-05  1.93e-05  5.64e-04  4.28e-04 -3.54e-05 -6.38e-05  9.45e-05
## 3576 -1.78e-02  1.78e-02 -1.12e-02  4.55e-03  1.65e-03  1.08e-03  2.89e-04
## 3577  1.58e-02 -1.59e-02  2.09e-02 -7.57e-04 -8.76e-04 -1.74e-03  2.64e-03
## 3578 -6.88e-03  6.86e-03 -5.08e-03  2.29e-03  7.79e-04  4.16e-04  5.53e-05
## 3579  2.77e-03 -2.75e-03  2.25e-03 -1.41e-03  4.84e-07 -7.48e-05 -3.02e-04
## 3580  3.00e-04 -2.90e-04  5.67e-04 -1.57e-04  6.69e-05  4.55e-05 -7.36e-04
## 3581  5.02e-03 -5.00e-03 -1.99e-03 -8.73e-04 -2.95e-04 -4.82e-05 -1.93e-04
## 3582 -7.54e-04  7.52e-04  1.54e-04  2.27e-04  8.64e-05  2.50e-05  2.16e-05
## 3583  7.27e-03 -7.30e-03 -7.95e-04  2.18e-04 -4.39e-04 -5.63e-04  1.53e-03
## 3584 -6.15e-04  6.13e-04 -4.24e-04  1.96e-05  3.47e-05 -1.39e-05 -2.14e-04
## 3585  4.53e-04 -4.27e-04 -5.32e-03 -7.87e-04  7.55e-05  2.38e-04 -3.23e-04
## 3586  6.70e-03 -6.71e-03 -2.53e-04 -1.94e-03  3.26e-04 -6.08e-04 -8.79e-04
## 3587 -7.00e-03  7.02e-03  4.50e-03 -1.50e-03 -1.81e-04  3.13e-04  5.49e-04
## 3588  6.08e-04 -6.06e-04 -2.26e-04 -1.17e-04 -5.20e-05 -2.03e-05 -2.47e-05
## 3589  3.80e-03 -3.83e-03 -3.51e-04  1.36e-03 -2.35e-04 -3.46e-04  6.38e-05
## 3590  3.22e-04 -3.14e-04  4.89e-03 -1.42e-03 -3.56e-04 -9.83e-05  1.92e-04
## 3591  8.90e-03 -8.88e-03 -2.18e-03 -1.67e-03 -1.66e-04 -2.37e-04 -7.54e-04
## 3592 -6.26e-03  6.26e-03  2.36e-04  1.82e-03 -3.05e-04  5.68e-04  8.21e-04
## 3593  7.86e-04 -7.85e-04  2.33e-03 -4.84e-04 -1.33e-04 -9.04e-05  4.50e-05
## 3594 -4.34e-05  4.36e-05  6.51e-05 -4.32e-06  2.66e-06  1.81e-06 -9.33e-06
## 3595 -2.56e-03  2.55e-03  1.14e-03  7.40e-04  2.46e-05  2.28e-05  2.79e-04
## 3596 -3.05e-03  2.67e-03 -3.80e-02  9.14e-05  4.16e-03  2.78e-03  2.72e-03
## 3597 -1.58e-02  1.62e-02  6.32e-02  2.00e-03 -6.25e-03 -2.62e-03  2.42e-04
## 3598 -8.40e-04  8.37e-04 -2.03e-04  3.14e-04  1.09e-04  3.64e-05  1.20e-05
## 3599 -3.92e-03  3.90e-03  3.07e-03  8.12e-04  3.69e-04  7.83e-05  1.85e-04
## 3600 -2.01e-02  2.01e-02  1.50e-02  2.17e-03  1.32e-03  5.24e-04  1.10e-03

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## 3601 -1.33e-03 1.09e-03 -7.08e-03 -2.01e-03 3.48e-03 1.13e-03 9.07e-04
## 3602 -9.79e-04 9.72e-04 1.02e-03 2.95e-05 -5.50e-06 -1.24e-05 4.05e-04
## 3603 -1.14e-02 1.14e-02 4.18e-03 -1.23e-03 1.52e-05 5.48e-04 7.37e-04
## 3604 -7.84e-04 7.92e-04 -5.40e-04 -3.41e-04 5.65e-05 9.83e-05 -4.27e-05
## 3605 -1.80e-03 1.80e-03 4.41e-04 3.38e-04 3.35e-05 4.79e-05 1.53e-04
## 3606 -5.73e-04 5.71e-04 4.34e-04 -1.99e-05 7.45e-05 7.99e-06 2.57e-04
## 3607 -7.18e-03 7.19e-03 3.18e-03 -9.32e-04 -2.99e-05 3.35e-04 4.87e-04
## 3608 3.13e-04 -3.12e-04 -1.04e-04 -5.54e-05 -5.91e-06 -7.75e-06 -2.68e-05
## 3609 -7.98e-04 8.01e-04 1.29e-03 -3.75e-04 -6.97e-05 2.19e-05 9.37e-05
## 3610 -4.15e-04 4.10e-04 -1.42e-03 5.97e-04 1.64e-04 3.68e-05 -5.47e-05
## 3611 3.86e-04 -3.82e-04 -6.78e-04 3.94e-05 -9.17e-05 1.31e-05 -3.47e-04
## 3612 -6.73e-03 6.70e-03 1.62e-02 4.32e-04 1.07e-04 -2.16e-04 8.72e-04
## 3613 -3.23e-02 3.21e-02 4.73e-03 -7.48e-04 3.12e-03 1.12e-03 2.56e-03
## 3614 4.79e-04 -4.82e-04 -1.09e-04 -2.86e-04 -7.82e-06 -9.45e-05 -5.37e-05
## 3615 -9.37e-04 9.29e-04 4.53e-04 -8.22e-04 5.25e-05 -1.73e-04 -2.84e-05
## 3616 -6.49e-03 6.25e-03 -9.77e-03 3.64e-03 2.60e-03 8.81e-04 2.02e-04
## 3617 -1.29e-04 1.27e-04 -2.16e-04 -2.11e-04 1.09e-05 -4.42e-05 -2.14e-05
## 3618 -1.37e-03 1.36e-03 9.73e-04 -3.29e-05 6.07e-05 -3.14e-05 -2.17e-04
## 3619 9.36e-04 -9.41e-04 -2.02e-03 4.31e-05 9.82e-06 -1.50e-04 -7.17e-04
## 3620 1.90e-03 -1.89e-03 5.25e-04 -3.79e-05 -1.76e-04 -9.54e-05 -5.16e-04
## 3621 3.53e-04 -3.58e-04 -6.65e-04 2.91e-04 -3.09e-05 -2.89e-05 1.55e-05
## 3622 4.25e-02 -4.26e-02 -2.03e-02 -2.02e-04 -1.11e-03 -2.07e-03 -2.54e-04
## 3623 4.25e-02 -4.26e-02 -2.03e-02 -2.02e-04 -1.11e-03 -2.07e-03 -2.54e-04
## 3624 4.53e-04 -4.39e-04 6.22e-03 -1.73e-03 -2.50e-04 6.61e-05 2.69e-04
## 3625 -1.74e-03 1.73e-03 1.11e-03 4.85e-04 1.59e-04 2.21e-04 8.92e-04
## 3626 6.87e-05 -6.85e-05 1.29e-04 -4.40e-05 -1.29e-05 -5.53e-06 2.64e-06
## 3627 -2.46e-02 2.46e-02 -9.25e-03 6.63e-04 1.99e-03 1.36e-03 5.47e-03
## 3628 9.37e-04 -9.42e-04 4.87e-04 -5.47e-05 4.15e-05 -7.67e-05 2.53e-04
## 3629 6.00e-03 -6.00e-03 2.25e-03 -1.61e-04 -4.86e-04 -3.32e-04 -1.33e-03
## 3630 3.90e-04 -3.88e-04 5.02e-05 1.35e-06 -6.90e-05 -1.21e-05 -2.35e-04
## 3631 6.04e-03 -6.05e-03 -1.81e-03 -5.84e-05 -7.16e-05 -2.91e-04 1.55e-04
## 3632 -1.24e-02 1.24e-02 1.82e-03 -1.34e-03 -1.35e-05 6.79e-04 7.49e-04
## 3633 -6.09e-05 6.10e-05 1.90e-05 5.89e-07 5.42e-07 2.95e-06 -2.24e-06
## 3634 1.33e-02 -1.32e-02 -2.19e-02 -7.56e-04 -6.21e-04 1.97e-04 -9.73e-04
## 3635 8.12e-03 -8.10e-03 1.17e-02 -3.15e-03 -1.03e-04 -4.95e-04 -5.54e-04
## 3636 -7.02e-05 6.99e-05 -1.70e-05 2.62e-05 9.13e-06 3.04e-06 9.99e-07
## 3637 3.93e-03 -3.93e-03 2.04e-04 -4.19e-05 -3.46e-04 -1.76e-04 -1.02e-03
## 3638 -1.82e-03 1.81e-03 -1.53e-03 6.28e-04 2.11e-04 1.14e-04 9.11e-06
## 3639 -1.68e-03 1.72e-03 -7.50e-03 -1.53e-03 -4.62e-04 3.94e-04 6.12e-05
## 3640 -2.02e-02 2.02e-02 1.33e-02 -2.16e-03 9.23e-05 7.90e-04 1.42e-03
## 3641 1.62e-03 -1.63e-03 -8.05e-04 -2.19e-05 8.62e-05 -8.78e-05 4.42e-04
## 3642 -5.22e-04 4.97e-04 2.90e-03 1.13e-04 -1.36e-04 -2.00e-04 1.47e-03
## 3643 -1.05e-02 1.05e-02 -1.32e-03 7.31e-04 5.67e-05 3.04e-04 3.23e-03
## 3644 -4.95e-04 4.97e-04 1.14e-04 1.37e-05 -3.12e-05 3.15e-05 -1.58e-04
## 3645 5.16e-03 -5.17e-03 4.94e-04 -1.50e-04 -2.98e-05 -3.13e-04 3.18e-04
## 3646 7.49e-03 -7.50e-03 3.55e-03 -3.45e-04 -5.18e-05 -5.34e-04 5.16e-04
## 3647 2.22e-03 -2.27e-03 2.68e-02 -2.47e-04 1.53e-04 -9.27e-04 4.24e-04
## 3648 2.52e-03 -2.53e-03 5.51e-04 -9.93e-05 4.63e-05 -1.73e-04 4.02e-04
## 3649 -1.09e-03 1.10e-03 -1.97e-03 -6.63e-04 -1.77e-04 1.51e-04 6.86e-05
## 3650 2.08e-02 -2.09e-02 -7.58e-03 4.67e-04 -9.97e-04 -1.21e-03 1.90e-03
## 3651 -7.02e-03 7.04e-03 7.83e-03 -1.97e-03 -2.78e-04 2.35e-04 6.51e-04
## 3652 6.16e-04 -5.72e-04 -1.20e-02 -9.54e-04 1.21e-04 4.71e-04 -5.67e-04
## 3653 7.29e-04 -7.31e-04 -6.29e-04 4.71e-05 -4.30e-05 -4.09e-05 1.42e-04
## 3654 3.33e-03 -3.35e-03 6.74e-04 7.07e-05 -2.15e-04 -2.98e-04 8.28e-04

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## 3655 -2.83e-03 2.85e-03 -3.82e-03 -9.10e-04 -2.18e-04 3.13e-04 1.38e-04
## 3656 1.82e-02 -1.85e-02 -3.14e-03 2.68e-03 1.87e-03 -2.89e-04 -2.90e-03
## 3657 -3.31e-03 3.29e-03 -1.25e-03 2.23e-03 7.05e-04 1.09e-04 -4.10e-05
## 3658 6.32e-03 -6.34e-03 4.44e-03 6.90e-04 6.64e-05 -5.10e-04 -2.79e-04
## 3659 -4.83e-04 4.77e-04 -7.15e-04 4.61e-04 -1.49e-05 4.13e-07 8.08e-05
## 3660 -1.56e-03 1.56e-03 1.07e-03 3.86e-04 1.80e-05 8.50e-06 1.70e-04
## 3661 2.90e-04 -2.85e-04 -2.73e-04 2.93e-05 -1.22e-04 1.26e-05 -4.60e-04
## 3662 5.67e-02 -5.67e-02 -1.75e-02 2.91e-04 -2.20e-03 -2.87e-03 3.41e-04
## 3663 6.14e-04 -6.22e-04 2.44e-04 5.72e-05 -7.07e-05 -8.91e-05 4.46e-04
## 3664 -1.66e-02 1.65e-02 9.45e-04 1.23e-03 -5.16e-05 2.61e-04 6.44e-03
## 3665 1.46e-03 -1.49e-03 2.67e-03 1.29e-04 -2.27e-04 -3.25e-04 1.62e-03
## 3666 4.63e-03 -4.62e-03 -3.95e-04 -2.29e-05 -3.93e-04 -1.91e-04 -1.17e-03
## 3667 -1.54e-02 1.54e-02 2.36e-03 -2.05e-03 -1.26e-04 8.58e-04 9.63e-04
## 3668 -1.40e-02 1.41e-02 3.59e-03 -2.38e-03 -2.43e-04 7.62e-04 9.45e-04
## 3669 -7.24e-04 7.32e-04 2.95e-03 -1.02e-03 -2.34e-04 -1.92e-06 1.73e-04
## 3670 -1.93e-04 1.98e-04 -6.02e-04 5.19e-05 -9.74e-05 4.61e-05 -4.13e-04
## 3671 1.40e-03 -1.39e-03 -7.43e-04 3.75e-05 -1.99e-04 -2.56e-05 -6.82e-04
## 3672 7.67e-03 -7.67e-03 2.00e-02 -3.40e-03 -6.58e-04 -5.38e-04 3.34e-04
## 3673 1.49e-03 -1.49e-03 -9.54e-04 8.92e-05 -9.35e-05 -9.80e-05 3.45e-04
## 3674 -7.47e-05 7.61e-05 3.53e-04 -1.51e-04 -3.66e-05 5.41e-07 2.25e-05
## 3675 -5.64e-03 5.66e-03 1.19e-03 -1.34e-03 -2.08e-04 3.33e-04 4.06e-04
## 3676 -2.69e-04 2.67e-04 1.10e-03 -7.31e-06 1.71e-05 -1.89e-05 3.48e-05
## 3677 2.28e-03 -2.27e-03 -3.25e-03 1.33e-04 -2.16e-04 -2.49e-06 -7.57e-04
## 3678 3.46e-03 -3.45e-03 -4.23e-04 -1.24e-04 -6.51e-05 -1.24e-04 -6.27e-04
## 3679 9.90e-03 -9.86e-03 -1.26e-02 -1.15e-03 -5.35e-04 1.16e-04 -5.97e-04
## 3680 -2.75e-02 2.73e-02 1.17e-01 -1.95e-03 1.09e-03 -2.38e-03 3.67e-03
## 3681 7.07e-05 -7.06e-05 4.85e-05 -2.20e-06 -9.30e-06 -3.90e-06 -2.89e-05
## 3682 -4.30e-03 4.30e-03 2.42e-04 2.65e-05 3.69e-04 1.81e-04 1.09e-03
## 3683 -4.26e-04 4.25e-04 -2.00e-04 1.32e-05 3.52e-05 2.46e-05 9.60e-05
## 3684 4.23e-03 -4.21e-03 -5.16e-03 2.16e-04 -4.46e-04 -2.12e-05 -1.55e-03
## 3685 4.13e-03 -4.13e-03 3.12e-03 -1.78e-04 -3.62e-04 -2.69e-04 -9.76e-04
## 3686 -2.64e-04 2.65e-04 -1.38e-04 1.53e-05 4.34e-06 3.82e-05 9.01e-05
## 3687 5.68e-03 -5.69e-03 -1.82e-03 -6.38e-05 5.51e-06 -2.84e-04 4.26e-04
## 3688 -2.14e-03 2.15e-03 -1.10e-03 1.37e-04 1.84e-05 3.81e-04 1.02e-03
## 3689 -9.67e-04 9.64e-04 4.96e-04 -3.62e-04 4.07e-05 -5.46e-05 2.08e-05
## 3690 2.99e-03 -2.98e-03 2.85e-03 1.66e-03 -1.56e-04 2.35e-04 1.11e-04
## 3691 -4.23e-03 4.22e-03 8.70e-03 -2.71e-03 8.38e-04 -3.64e-04 -3.31e-04
## 3692 6.07e-04 -6.08e-04 4.39e-04 -3.27e-04 6.73e-05 -8.66e-05 -1.09e-04
## 3693 8.46e-03 -8.47e-03 5.59e-02 5.80e-03 -6.35e-04 1.43e-04 1.74e-03
## 3694 -1.12e-03 1.12e-03 9.82e-04 -1.61e-05 -1.35e-06 3.77e-05 -6.51e-05
## 3695 4.14e-03 -4.14e-03 -1.81e-03 3.97e-05 -3.20e-04 -1.35e-04 -9.66e-04
## 3696 -1.57e-03 1.56e-03 6.10e-04 1.30e-04 -2.91e-05 -1.31e-05 8.38e-04
## 3697 8.95e-03 -8.94e-03 2.05e-03 -1.85e-04 -7.01e-04 -4.61e-04 -1.94e-03
## 3698 6.54e-05 -6.52e-05 6.62e-05 -5.20e-07 -5.32e-06 -5.94e-07 -2.85e-05
## 3699 -7.40e-04 7.40e-04 -9.48e-04 4.56e-05 8.54e-05 5.57e-05 2.42e-04
## 3700 2.81e-03 -2.82e-03 -1.02e-02 2.94e-04 5.08e-04 3.66e-05 1.89e-03
## 3701 3.13e-03 -3.12e-03 1.64e-03 -2.11e-04 -5.94e-05 -1.65e-04 -5.57e-04
## 3702 1.10e-02 -1.10e-02 9.52e-03 -1.69e-03 -5.46e-04 -6.61e-04 -1.97e-04
## 3703 -4.20e-03 4.20e-03 5.09e-03 -1.13e-03 -1.49e-04 1.26e-04 3.93e-04
## 3704 -5.02e-04 5.02e-04 -2.93e-03 4.92e-04 1.21e-04 9.29e-05 -7.09e-05
## 3705 5.22e-06 -3.77e-06 1.74e-04 2.82e-07 -4.23e-05 2.24e-06 -1.59e-04
## 3706 -2.85e-04 2.86e-04 2.45e-04 -3.10e-06 -3.90e-06 1.05e-05 -3.07e-05
## 3707 -1.04e-02 1.04e-02 1.43e-02 -2.63e-03 -2.99e-04 2.52e-04 9.95e-04
## 3708 1.60e-02 -1.61e-02 2.00e-03 6.08e-03 -1.03e-03 -1.61e-03 4.36e-04

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## 3709  1.05e-03 -1.05e-03 -6.75e-04 -5.89e-06  5.00e-05 -5.12e-05  2.58e-04
## 3710  2.51e-03 -2.53e-03  2.82e-03 -1.21e-05 -1.92e-04 -3.15e-04  9.09e-04
## 3711  8.23e-04 -8.27e-04  2.52e-02 -3.23e-03 -4.00e-04 -3.76e-04  7.49e-04
## 3712 -2.51e-03  2.50e-03  2.70e-03 -1.10e-04  1.18e-04 -1.23e-04 -5.33e-04
## 3713 -1.07e-04  9.31e-05  3.69e-03 -9.77e-04  1.79e-05 -3.07e-04  6.91e-06
## 3714  3.03e-04 -3.05e-04  2.57e-04 -1.59e-04 -6.66e-06 -5.98e-05 -2.29e-05
## 3715 -4.23e-03  4.20e-03  6.28e-03 -2.23e-03  1.82e-04 -4.72e-04  1.38e-04
## 3716  8.51e-03 -8.52e-03 -3.39e-03 -2.79e-03  5.59e-04 -7.51e-04 -1.33e-03
## 3717  2.91e-03 -2.93e-03 -8.58e-04 -1.68e-03 -4.83e-05 -5.57e-04 -3.26e-04
## 3718  5.57e-04 -5.82e-04  5.45e-03 -1.91e-03  1.54e-05 -6.09e-04 -7.01e-05
## 3719 -7.80e-03  7.74e-03  5.18e-02 -6.15e-04  1.01e-04 -6.50e-04  1.71e-03
## 3720 -1.68e-02  1.68e-02  1.47e-02 -2.09e-03  3.12e-05  5.58e-04  1.27e-03
## 3721 -7.13e-03  7.12e-03  1.79e-04  7.07e-05  5.27e-04  3.21e-04  1.48e-03
## 3722 -8.54e-03  8.90e-03 -8.60e-03  2.23e-03 -2.13e-03  5.95e-05 -2.37e-03
## 3723  7.18e-03 -7.17e-03  1.07e-02 -2.50e-03 -7.89e-04 -5.94e-04  5.50e-05
## 3724  2.63e-03 -2.02e-03 -6.56e-04 -3.47e-02 -5.64e-03 -2.13e-02 -3.47e-02
## 3725  9.61e-05 -9.53e-05  9.49e-05 -7.95e-05 -2.40e-05 -4.25e-06  3.50e-06
## 3726  5.78e-04 -5.73e-04 -1.28e-03 -2.03e-04 -8.66e-05  1.78e-05 -3.65e-05
## 3727  9.46e-04 -9.36e-04 -1.68e-03  9.66e-05 -2.21e-04  3.21e-05 -8.35e-04
## 3728 -2.05e-04  2.04e-04 -7.98e-04  1.98e-04  5.29e-05  2.59e-05 -2.12e-05
## 3729 -6.30e-03  6.29e-03 -2.39e-03  1.81e-03  6.57e-04  3.26e-04  1.17e-04
## 3730 -6.73e-04  7.06e-04 -3.57e-03 -1.89e-03 -5.50e-04  2.37e-04  1.16e-04
## 3731  2.46e-02 -2.50e-02 -1.04e-02  3.53e-03  2.22e-03 -2.96e-04 -3.80e-03
## 3732 -7.95e-03  7.93e-03 -1.31e-03  4.95e-04  8.90e-05  2.84e-04  2.01e-03
## 3733  3.43e-03 -3.42e-03 -1.49e-03  3.28e-05 -2.65e-04 -1.12e-04 -7.99e-04
## 3734  2.16e-03 -2.15e-03  1.48e-03 -6.72e-05 -2.84e-04 -1.19e-04 -8.84e-04
## 3735 -4.95e-03  4.91e-03  1.97e-02  2.00e-04  4.01e-04 -3.44e-04  6.02e-04
## 3736  1.12e-03 -1.12e-03 -1.24e-03  1.10e-04 -8.07e-05 -7.03e-05  3.57e-04
## 3737 -4.63e-03  4.65e-03  4.97e-04 -1.83e-03 -3.80e-04  3.23e-04  3.82e-04
## 3738 -1.01e-03  1.02e-03  1.14e-03 -1.91e-04 -1.36e-05  2.92e-05  8.67e-05
## 3739  3.24e-03 -3.25e-03  1.22e-04  8.38e-05 -2.02e-04 -2.69e-04  7.39e-04
## 3740 -4.03e-03  4.00e-03  4.94e-04  2.05e-03  4.40e-04 -1.72e-04 -4.66e-06
## 3741  4.04e-03 -4.05e-03 -1.46e-03  1.13e-04 -2.08e-04 -2.50e-04  5.05e-04
## 3742 -6.14e-05  5.57e-05  9.92e-04  2.73e-04  8.89e-05 -4.02e-05  1.05e-07
## 3743  3.18e-03 -3.16e-03 -3.48e-03 -9.61e-04 -1.56e-05  4.50e-05 -4.18e-04
## 3744  1.03e-03 -1.02e-03 -1.85e-03 -7.82e-04 -2.68e-04  3.85e-05 -2.30e-05
## 3745 -3.20e-04  3.39e-04 -4.69e-03 -6.58e-04 -2.26e-04  1.93e-04 -2.14e-05
## 3746 -1.23e-04  1.23e-04 -1.20e-04  1.77e-05 -1.84e-06  3.82e-06  6.12e-05
## 3747  4.22e-04 -4.21e-04  2.57e-04 -1.43e-05 -4.23e-05 -2.47e-05 -1.23e-04
## 3748  1.39e-03 -1.38e-03 -1.67e-03 -3.84e-04 -8.83e-06  2.05e-05 -1.81e-04
## 3749 -2.32e-02  2.32e-02  2.05e-02  3.61e-05  3.96e-04  3.25e-04  4.64e-03
## 3750  9.36e-04 -8.94e-04 -4.65e-03 -1.78e-03  1.32e-04  2.97e-04 -5.00e-04
## 3751 -6.94e-04  7.29e-04 -3.68e-03 -1.95e-03 -5.67e-04  2.44e-04  1.20e-04
## 3752  5.14e-04 -5.40e-04  2.73e-03  1.44e-03  4.20e-04 -1.81e-04 -8.86e-05
## 3753  4.17e-03 -4.17e-03 -4.42e-03  2.47e-04 -2.55e-04 -4.02e-02 -1.56e-04
## 3754 -1.86e-03  1.85e-03  5.95e-05  6.71e-04  1.19e-05  2.76e-05  2.02e-04
## 3755  4.65e-03 -4.65e-03 -9.67e-03  1.45e-03  1.77e-04 -2.54e-05 -5.29e-04
## 3756  3.58e-03 -3.57e-03 -4.37e-03  1.83e-04 -3.78e-04 -1.79e-05 -1.32e-03
## 3757  2.10e-03 -2.10e-03 -1.49e-03 -4.35e-06  9.51e-05 -9.77e-05  4.93e-04
## 3758 -7.19e-04  7.01e-04 -4.08e-04  2.46e-04 -1.08e-04 -8.24e-05  1.28e-03
## 3759 -8.19e-04  8.34e-04  3.91e-03 -1.69e-03 -4.12e-04  6.53e-06  2.51e-04
## 3760 -3.69e-03  3.71e-03 -2.50e-03 -7.20e-04 -1.27e-04  3.11e-04  1.90e-04
## 3761 -1.90e-02  1.85e-02 -2.10e-02  5.54e-03  4.27e-03  2.46e-03 -2.45e-03
## 3762 -1.39e-03  1.40e-03  4.38e-03 -7.17e-04 -4.75e-05  5.10e-05  2.22e-04

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## 3763 -7.62e-03 7.61e-03 -2.06e-02 4.44e-03 1.24e-03 8.27e-04 -3.78e-04
## 3764 5.58e-03 -5.58e-03 2.93e-03 -3.96e-04 -9.33e-05 -2.83e-04 -1.11e-03
## 3765 -2.94e-03 2.91e-03 -2.90e-03 2.43e-03 7.33e-04 1.30e-04 -1.07e-04
## 3766 -9.73e-03 9.61e-03 1.58e-02 5.06e-03 -1.45e-04 -5.39e-04 1.81e-03
## 3767 -4.32e-05 4.22e-05 1.46e-05 5.47e-05 -2.82e-06 -4.04e-06 1.20e-05
## 3768 1.70e-03 -1.73e-03 4.94e-03 -9.39e-05 -1.69e-04 -3.32e-04 9.90e-04
## 3769 1.45e-03 -1.46e-03 1.81e-06 -1.00e-04 3.18e-04 -1.42e-04 1.35e-03
## 3770 3.22e-03 -3.18e-03 -5.22e-03 -1.67e-03 4.81e-05 1.78e-04 -5.99e-04
## 3771 -2.70e-05 2.44e-05 -1.61e-04 2.19e-04 6.05e-05 -4.18e-06 -1.93e-05
## 3772 4.34e-03 -4.36e-03 1.35e-03 2.74e-05 -2.54e-04 -3.75e-04 8.37e-04
## 3773 -4.61e-03 4.64e-03 4.95e-04 -1.82e-03 -3.79e-04 3.22e-04 3.81e-04
## 3774 -6.02e-04 1.50e-04 2.41e-04 2.52e-02 4.22e-03 1.54e-02 2.52e-02
## 3775 3.28e-03 -3.26e-03 -3.08e-03 1.35e-04 -3.94e-04 -3.41e-05 -1.36e-03
## 3776 -2.94e-03 2.94e-03 -1.29e-03 9.25e-05 2.15e-04 1.72e-04 5.56e-04
## 3777 1.63e-03 -1.63e-03 1.76e-03 -7.60e-05 -2.35e-04 -1.05e-04 -7.25e-04
## 3778 -1.22e-02 1.22e-02 -5.54e-03 3.69e-04 1.00e-03 6.99e-04 2.74e-03
## 3779 9.03e-04 -1.33e-03 2.27e-03 2.42e-02 3.68e-03 1.47e-02 2.43e-02
## 3780 -4.36e-03 4.35e-03 2.40e-05 5.36e-05 2.90e-04 2.04e-04 7.75e-04
## 3781 -1.55e-03 1.52e-03 -3.69e-03 1.83e-03 -6.72e-05 9.51e-06 2.78e-04
## 3782 1.74e-03 -1.75e-03 3.99e-03 -2.96e-04 1.57e-05 2.57e-02 -8.36e-05
## 3783 -2.23e-02 2.20e-02 9.30e-02 4.41e-03 -1.02e-04 -2.35e-03 4.63e-03
## 3784 -6.04e-03 5.91e-03 2.65e-03 1.30e-03 1.43e-03 6.93e-04 -4.21e-04
## 3785 1.41e-02 -1.40e-02 -1.48e-04 -2.20e-03 -3.14e-04 -5.32e-04 -1.01e-03
## 3786 -6.88e-03 6.85e-03 3.07e-03 1.99e-03 6.62e-05 6.12e-05 7.49e-04
## 3787 -2.14e-03 2.11e-03 -5.11e-03 2.53e-03 -9.30e-05 1.32e-05 3.85e-04
## 3788 -5.10e-03 4.98e-03 5.66e-02 6.38e-04 9.20e-04 -1.49e-03 1.28e-03
## 3789 -4.46e-03 4.45e-03 2.36e-03 9.89e-05 6.72e-05 9.54e-05 9.72e-04
## 3790 -4.84e-03 4.86e-03 -3.36e-03 -6.93e-04 -9.66e-05 3.98e-04 2.28e-04
## 3791 -4.68e-03 4.66e-03 -3.02e-02 6.47e-03 1.63e-03 8.64e-04 -8.69e-04
## 3792 1.03e-03 -1.04e-03 -1.11e-04 4.08e-04 8.50e-05 -7.21e-05 -8.54e-05
## 3793 -2.49e-04 2.50e-04 -2.59e-04 1.98e-05 -7.77e-06 2.35e-05 -5.85e-05
## 3794 1.76e-03 -1.74e-03 -3.46e-03 -5.63e-04 2.49e-06 7.95e-05 -2.84e-04
## 3795 -5.50e-05 5.25e-05 2.73e-04 1.05e-04 -7.74e-06 -1.74e-05 2.94e-05
## 3796 -6.17e-04 6.40e-04 4.04e-03 -2.31e-03 -5.90e-04 2.16e-05 2.93e-04
## 3797 -2.89e-03 2.93e-03 5.14e-03 -2.64e-03 2.75e-04 2.75e-04 -1.82e-04
## 3798 3.83e-03 -3.82e-03 -5.79e-04 -2.02e-04 -2.89e-05 -9.11e-05 -1.10e-03
## 3799 1.06e-03 -1.02e-03 1.06e-03 -2.16e-03 1.25e-04 1.41e-04 -3.96e-04
## 3800 1.20e-02 -1.21e-02 -2.54e-03 2.86e-03 4.44e-04 -7.09e-04 -8.65e-04
## 3801 -9.51e-04 9.77e-04 -6.35e-03 -5.92e-04 1.15e-04 3.28e-04 -2.59e-04
## 3802 -1.36e-02 1.36e-02 -2.53e-02 5.28e-03 1.59e-03 1.25e-03 -2.45e-04
## 3803 -8.99e-03 8.97e-03 6.47e-03 -1.92e-04 6.38e-04 2.30e-04 1.95e-03
## 3804 -9.83e-04 9.88e-04 -1.53e-04 -2.53e-04 -4.57e-05 7.00e-05 6.55e-05
## 3805 3.55e-03 -3.56e-03 -2.76e-04 -7.38e-05 -2.52e-05 -1.97e-04 1.82e-04
## 3806 -3.12e-03 3.12e-03 -2.54e-03 1.42e-04 2.77e-04 2.08e-04 7.44e-04
## 3807 -9.98e-07 3.83e-07 -4.74e-04 1.20e-04 2.88e-05 8.73e-06 -1.87e-05
## 3808 -1.17e-02 1.17e-02 1.24e-02 -2.25e-03 -1.78e-04 3.63e-04 9.90e-04
## 3809 -5.69e-03 5.68e-03 3.53e-03 -8.72e-05 3.61e-04 1.69e-04 1.06e-03
## 3810 -1.67e-02 1.62e-02 -1.66e-02 -1.42e-03 5.05e-03 3.61e-04 2.41e-03
## 3811 -2.06e-04 1.92e-04 1.57e-03 -1.29e-03 3.70e-05 -3.47e-04 -7.82e-05
## 3812 -2.02e-03 2.00e-03 -4.93e-04 -2.29e-03 1.33e-04 -4.81e-04 -1.54e-04
## 3813 1.57e-04 -1.83e-04 1.54e-03 -2.43e-03 5.64e-05 -6.56e-04 -2.11e-04
## 3814 -2.00e-03 2.02e-03 1.57e-03 -1.49e-03 -3.48e-04 1.32e-04 2.48e-04
## 3815 -1.10e-02 1.06e-02 -1.07e-02 2.65e-03 3.43e-03 2.19e-04 -1.96e-03
## 3816 6.04e-03 -6.07e-03 1.14e-03 -2.32e-03 1.55e-04 -6.92e-04 -4.65e-04

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## 3817 -6.82e-04 7.12e-04 -2.95e-03 -1.69e-03 -4.87e-04 2.09e-04 1.12e-04
## 3818 -4.78e-02 4.74e-02 -3.86e-02 3.14e-04 5.09e-03 4.53e-03 5.02e-03
## 3819 2.20e-02 -2.24e-02 -3.68e-03 1.97e-03 2.74e-03 -1.82e-03 -3.66e-03
## 3820 1.61e-03 -1.64e-03 5.46e-03 -2.61e-03 -6.55e-07 -8.39e-04 -1.89e-04
## 3821 -4.68e-02 4.62e-02 2.53e-02 -3.36e-03 7.06e-03 5.27e-04 5.28e-03
## 3822 1.33e-02 -1.36e-02 2.45e-03 -3.30e-03 3.80e-03 2.91e-04 6.74e-04
## 3823 1.11e-02 -1.11e-02 9.90e-04 -4.89e-04 -1.83e-04 -9.10e-04 1.15e-03
## 3824 3.64e-03 -3.59e-03 -1.50e-02 -1.38e-03 -6.47e-04 3.29e-04 -3.54e-04
## 3825 -2.44e-03 1.85e-03 3.12e-03 -2.89e-03 5.07e-03 -1.07e-03 2.42e-03
## 3826 -3.94e-03 3.40e-03 -1.26e-02 3.72e-03 4.93e-03 -4.78e-04 -3.60e-03
## 3827 -8.33e-05 8.40e-05 3.19e-04 -9.62e-07 -7.59e-06 1.05e-05 -7.46e-05
## 3828 -3.68e-05 2.18e-05 1.21e-03 -1.39e-03 3.55e-05 -3.76e-04 -1.06e-04
## 3829 5.27e-05 -4.95e-05 -9.46e-04 2.33e-04 -4.96e-06 7.32e-05 -4.63e-06
## 3830 -6.66e-03 6.65e-03 7.59e-04 2.51e-05 5.62e-04 2.70e-04 1.67e-03
## 3831 -1.23e-04 1.21e-04 -5.87e-05 8.54e-05 2.08e-05 3.38e-05 1.30e-04
## 3832 6.03e-03 -6.01e-03 1.55e-03 -2.11e-03 -5.00e-04 -5.48e-06 -5.08e-05
## 3833 -3.80e-03 3.85e-03 -1.22e-02 -1.61e-03 -4.76e-04 6.56e-04 8.15e-05
## 3834 8.92e-04 -8.89e-04 2.16e-04 -3.34e-04 -1.16e-04 -3.86e-05 -1.27e-05
## 3835 -8.83e-03 8.80e-03 5.02e-03 2.40e-04 9.49e-05 1.42e-04 2.28e-03
## 3836 1.02e-04 -3.13e-04 3.32e-04 1.20e-02 1.87e-03 7.39e-03 1.20e-02
## 3837 1.43e-03 -1.42e-03 2.68e-03 -9.14e-04 -2.68e-04 -1.15e-04 5.48e-05
## 3838 -1.24e-04 1.03e-04 -2.17e-03 1.44e-03 -9.47e-05 -7.73e-05 1.94e-04
## 3839 -4.41e-04 4.42e-04 8.56e-04 -1.58e-04 -2.33e-05 5.31e-06 5.07e-05
## 3840 -8.35e-04 8.34e-04 -9.43e-04 3.19e-04 1.03e-04 5.85e-05 -2.84e-06
## 3841 1.08e-03 -1.07e-03 -1.97e-03 -1.11e-04 -5.90e-05 3.23e-05 -7.72e-05
## 3842 -2.49e-04 2.59e-04 1.63e-03 -9.35e-04 -2.39e-04 8.72e-06 1.18e-04
## 3843 2.47e-03 -2.40e-03 2.17e-03 2.12e-04 -7.26e-04 -4.99e-05 -3.54e-04
## 3844 -3.48e-03 3.63e-03 1.66e-02 1.11e-04 -1.35e-03 3.13e-05 -9.66e-05
## 3845 3.01e-03 -3.16e-03 4.80e-03 -9.58e-04 8.84e-04 -3.55e-05 1.02e-03
## 3846 2.67e-03 -2.64e-03 -9.94e-03 -6.52e-04 -3.62e-04 1.91e-04 -2.68e-04
## 3847 2.92e-02 -2.97e-02 -4.12e-03 4.32e-03 3.05e-03 -4.78e-04 -4.66e-03
## 3848 5.63e-03 -5.63e-03 -1.67e-03 -1.85e-04 3.10e-05 -3.46e-04 -9.99e-04
## 3849 1.46e-03 -1.30e-03 1.01e-02 3.47e-04 -1.56e-03 -3.23e-05 -5.07e-04
## 3850 2.80e-02 -2.81e-02 -1.48e-02 3.53e-03 -1.91e-04 1.67e-05 3.64e-03
## 3851 7.38e-03 -7.37e-03 -1.89e-03 -1.52e-03 -6.53e-04 -2.67e-04 -2.75e-04
## 3852 -3.09e-03 3.72e-03 -1.07e-02 3.45e-03 -5.07e-03 1.63e-03 -2.42e-03
## 3853 2.17e-04 -2.18e-04 -4.43e-04 7.31e-06 4.03e-06 -4.32e-05 -1.97e-04
## 3854 -2.76e-03 2.79e-03 -4.99e-03 -1.68e-03 -4.50e-04 3.83e-04 1.74e-04
## 3855 -4.55e-04 8.52e-04 1.88e-02 -3.18e-03 -3.65e-03 2.82e-04 3.11e-03
## 3856 6.44e-03 -6.45e-03 7.70e-04 1.29e-04 -6.15e-04 -1.85e-04 1.02e-03
## 3857 3.94e-02 -3.95e-02 -5.83e-03 1.73e-05 -1.61e-03 -2.24e-03 9.91e-04
## 3858 -1.78e-03 1.79e-03 -6.91e-04 9.12e-05 3.01e-05 2.45e-04 5.90e-04
## 3859 -2.18e-03 2.19e-03 -3.32e-03 1.03e-03 5.60e-05 4.26e-04 1.13e-04
## 3860 1.76e-02 -1.80e-02 4.73e-03 2.73e-03 2.21e-03 -4.01e-04 -2.95e-03
## 3861 6.52e-03 -6.75e-03 -2.01e-03 1.27e-03 1.81e-03 -7.30e-04 -1.84e-03
## 3862 1.32e-03 -1.33e-03 6.38e-05 -7.21e-05 8.17e-06 -2.96e-04 -9.55e-04
## 3863 1.92e-03 -1.91e-03 -1.87e-03 -3.37e-04 -1.67e-04 -2.98e-05 -1.02e-04
## 3864 -1.62e-02 1.70e-02 -5.70e-02 6.38e-03 -4.41e-03 1.15e-03 -5.91e-03
## 3865 -2.28e-04 2.27e-04 3.06e-04 -1.32e-04 1.03e-05 -2.80e-05 5.38e-06
## 3866 -2.59e-03 2.60e-03 1.51e-03 1.81e-05 3.88e-05 2.84e-04 9.09e-04
## 3867 -6.92e-03 6.97e-03 -7.76e-03 3.98e-03 1.49e-04 1.48e-03 5.05e-04
## 3868 -5.74e-03 5.76e-03 3.77e-03 1.79e-05 8.83e-05 6.01e-04 1.96e-03
## 3869 -4.51e-03 4.53e-03 -2.31e-03 2.59e-04 7.43e-05 6.49e-04 1.53e-03
## 3870 -1.54e-02 1.54e-02 6.72e-03 -1.55e-03 5.38e-04 2.35e-04 7.28e-04

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## 3871 -1.76e-03 1.75e-03 -7.59e-04 -8.63e-04 8.53e-05 -1.24e-04 -2.87e-05
## 3872 -3.41e-02 3.38e-02 -5.45e-03 -6.28e-04 3.87e-03 1.35e-03 2.71e-03
## 3873 -3.88e-02 4.44e-02 -5.75e-02 -2.63e-02 -4.48e-02 1.38e-02 3.44e-02
## 3874 3.21e-02 -3.10e-02 -4.04e-02 6.32e-03 -1.01e-02 1.47e-03 -6.52e-03
## 3875 -1.57e-02 1.59e-02 3.69e-03 -1.41e-03 -1.89e-03 1.25e-03 2.58e-03
## 3876 1.40e-01 -1.38e-01 5.85e-02 3.73e-03 -2.10e-02 -5.47e-03 -1.25e-02
## 3877 4.19e-03 -4.46e-03 -1.30e-02 2.12e-03 2.39e-03 -4.00e-04 -2.33e-03
## 3878 4.66e-03 -4.67e-03 -4.08e-03 -1.02e-03 -1.14e-04 -4.19e-04 -4.27e-04
## 3879 6.31e-04 -6.54e-04 1.74e-04 -2.27e-03 4.08e-05 -6.15e-04 -2.54e-04
## 3880 4.48e-03 -4.47e-03 2.82e-03 -1.15e-03 -4.16e-04 -2.73e-04 -7.29e-05
## 3881 -5.15e-03 5.14e-03 1.30e-04 5.11e-05 3.81e-04 2.32e-04 1.07e-03
## 3882 2.11e-03 -2.12e-03 6.30e-04 -9.87e-05 -3.63e-05 -2.81e-04 -6.86e-04
## 3883 -1.43e-03 1.42e-03 1.65e-04 -6.05e-04 6.41e-05 -8.92e-05 7.96e-06
## 3884 -5.10e-02 5.32e-02 -7.75e-02 1.42e-02 -1.55e-02 8.77e-03 -7.12e-03
## 3885 4.44e-03 -4.45e-03 7.53e-04 -1.49e-04 -1.18e-06 -2.83e-04 3.80e-04
## 3886 5.05e-03 -5.08e-03 1.02e-03 1.07e-04 -3.25e-04 -4.52e-04 1.25e-03
## 3887 -3.32e-03 3.33e-03 3.29e-03 -4.22e-05 -1.17e-04 1.22e-04 -6.21e-04
## 3888 2.85e-03 -2.83e-03 -7.22e-03 -1.33e-04 -1.93e-04 7.37e-05 -2.67e-04
## 3889 -1.07e-02 1.07e-02 -7.71e-03 4.11e-04 1.10e-03 6.56e-04 3.17e-03
## 3890 3.34e-02 -3.34e-02 -7.02e-03 1.40e-04 -1.37e-03 -1.86e-03 9.67e-04
## 3891 5.56e-04 -5.55e-04 -2.42e-04 5.33e-06 -4.30e-05 -1.81e-05 -1.30e-04
## 3892 4.21e-04 -4.39e-04 2.42e-03 3.19e-05 -1.13e-04 -1.84e-04 9.15e-04
## 3893 1.65e-02 -1.67e-02 -2.99e-03 1.76e-03 1.11e-03 -3.95e-04 -2.16e-03
## 3894 -2.76e-03 2.79e-03 -4.99e-03 -1.68e-03 -4.50e-04 3.83e-04 1.74e-04
## 3895 4.81e-03 -4.82e-03 1.17e-03 -1.73e-04 -2.23e-05 -3.13e-04 3.40e-04
## 3896 -8.51e-05 8.46e-05 -1.16e-04 3.43e-06 2.06e-05 4.68e-06 6.98e-05
## 3897 1.70e-03 -1.69e-03 -1.60e-03 5.18e-05 -1.12e-04 -3.40e-05 -3.48e-04
## 3898 1.54e-03 -1.54e-03 -1.21e-03 -1.82e-03 5.05e-04 -3.10e-04 -6.62e-04
## 3899 -1.77e-02 1.77e-02 4.14e-02 -1.72e-03 6.38e-04 -4.58e-04 3.05e-03
## 3900 -3.10e-03 3.06e-03 4.83e-03 1.60e-04 -1.08e-04 -1.71e-04 2.13e-03
## 3901 2.05e-02 -2.05e-02 -5.61e-03 -1.98e-04 -3.58e-04 -9.81e-04 9.12e-05
## 3902 6.69e-04 -8.21e-04 4.48e-03 -9.21e-04 9.94e-04 1.06e-04 1.16e-03
## 3903 4.56e-03 -4.60e-03 -1.38e-03 1.65e-03 1.98e-04 3.31e-04 2.37e-03
## 3904 -5.03e-03 5.06e-03 5.40e-04 -1.99e-03 -4.13e-04 3.51e-04 4.16e-04
## 3905 3.24e-02 -3.25e-02 1.04e-03 -7.69e-04 -5.75e-04 -1.84e-03 4.28e-04
## 3906 -2.57e-03 2.57e-03 -6.06e-03 1.38e-03 3.96e-04 2.57e-04 -1.01e-04
## 3907 -3.73e-03 3.72e-03 1.58e-03 -2.14e-05 2.25e-04 1.34e-04 6.22e-04
## 3908 7.31e-04 -7.49e-04 3.57e-03 -4.14e-05 -1.16e-04 -2.24e-04 8.39e-04
## 3909 1.46e-04 -1.44e-04 -2.13e-04 1.49e-05 -4.47e-05 5.49e-06 -1.69e-04
## 3910 4.17e-03 -4.16e-03 2.83e-03 -1.66e-04 -3.59e-04 -2.63e-04 -9.72e-04
## 3911 -7.83e-05 8.04e-05 5.62e-04 -5.59e-05 2.12e-05 7.95e-06 -1.71e-04
## 3912 5.81e-03 -6.04e-03 3.89e-03 1.59e-03 1.40e-03 -3.66e-05 -1.47e-03
## 3913 -1.02e-02 1.02e-02 8.38e-03 -1.20e-03 3.97e-04 4.13e-04 4.93e-04
## 3914 -3.96e-04 3.77e-04 2.20e-03 8.59e-05 -1.03e-04 -1.52e-04 1.12e-03
## 3915 -7.89e-04 7.91e-04 1.04e-03 -2.04e-04 -2.44e-05 2.06e-05 7.49e-05
## 3916 -1.28e-02 1.28e-02 1.75e-03 6.66e-05 9.21e-04 5.40e-04 2.60e-03
## 3917 5.67e-02 -5.67e-02 -3.86e-02 1.47e-04 -1.37e-03 -2.57e-03 1.71e-04
## 3918 7.53e-03 -7.55e-03 -2.74e-03 1.69e-04 -3.60e-04 -4.39e-04 6.88e-04
## 3919 3.27e-03 -3.29e-03 1.76e-03 1.15e-04 -2.72e-04 -3.82e-04 1.39e-03
## 3920 1.19e-03 -1.21e-03 -2.20e-03 2.37e-04 -1.34e-04 -9.94e-05 8.29e-04
## 3921 5.51e-03 -5.55e-03 6.87e-03 1.74e-03 4.11e-04 -5.92e-04 -2.78e-04
## 3922 2.78e-04 -2.79e-04 1.93e-04 3.98e-05 5.55e-06 -2.28e-05 -1.31e-05
## 3923 1.40e-03 -1.38e-03 1.38e-03 -1.16e-03 -3.49e-04 -6.18e-05 5.08e-05
## 3924 -4.63e-03 4.64e-03 4.09e-03 -8.58e-04 2.66e-05 2.71e-04 3.91e-04

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## 3925 -1.16e-03 1.16e-03 1.36e-03 1.88e-04 1.78e-05 -1.83e-06 1.26e-04
## 3926 -5.66e-04 5.62e-04 1.24e-03 -5.81e-05 7.94e-05 -1.65e-05 3.02e-04
## 3927 -2.88e-03 2.91e-03 -1.71e-03 -1.37e-03 -3.22e-04 2.74e-04 2.18e-04
## 3928 8.10e-04 -8.07e-04 1.52e-03 -5.18e-04 -1.52e-04 -6.52e-05 3.11e-05
## 3929 6.83e-03 -6.82e-03 2.77e-03 -1.93e-04 -5.56e-04 -3.83e-04 -1.52e-03
## 3930 -2.92e-04 3.05e-04 2.50e-03 -1.02e-03 7.49e-05 4.39e-05 -9.13e-05
## 3931 7.06e-03 -7.10e-03 -6.85e-03 6.89e-04 -5.39e-04 -4.98e-04 2.53e-03
## 3932 -3.14e-04 3.13e-04 -3.18e-04 2.50e-06 2.55e-05 2.85e-06 1.36e-04
## 3933 -9.53e-04 9.63e-04 1.85e-03 -7.37e-04 7.93e-05 7.10e-05 -3.17e-05
## 3934 1.70e-02 -1.71e-02 -3.00e-04 -2.89e-03 -4.90e-04 -1.56e-03 -1.07e-03
## 3935 -3.40e-03 3.42e-03 -4.19e-03 2.02e-03 7.26e-05 7.52e-04 2.44e-04
## 3936 -1.41e-03 1.43e-03 -4.64e-03 1.36e-03 2.60e-05 4.94e-04 7.46e-05
## 3937 -7.04e-03 7.06e-03 1.07e-03 1.70e-04 1.32e-04 7.70e-04 2.06e-03
## 3938 -1.51e-02 1.52e-02 6.45e-03 1.58e-04 2.97e-04 1.44e-03 4.12e-03
## 3939 2.36e-03 -2.38e-03 4.91e-03 -1.30e-03 -6.02e-05 -5.30e-04 -1.05e-04
## 3940 8.12e-04 -8.19e-04 1.17e-03 -5.12e-04 -1.71e-05 -1.90e-04 -5.69e-05
## 3941 -1.07e-02 1.08e-02 1.83e-03 2.50e-04 2.02e-04 1.17e-03 3.13e-03
## 3942 5.76e-04 -5.84e-04 6.42e-04 -6.69e-05 1.10e-05 -1.85e-04 -5.56e-04
## 3943 1.18e-04 -1.17e-04 3.46e-05 1.36e-04 -7.82e-06 2.85e-05 9.34e-06
## 3944 1.59e-02 -1.60e-02 -2.02e-03 -2.64e-04 -2.70e-04 -8.33e-04 1.81e-04
## 3945 -2.83e-04 2.88e-04 1.52e-03 -3.03e-05 -1.62e-04 1.93e-06 -6.07e-04
## 3946 -2.38e-04 2.36e-04 -4.45e-04 6.31e-05 -1.51e-05 1.52e-06 2.26e-04
## 3947 3.38e-03 -3.39e-03 -2.38e-04 -7.44e-05 -8.51e-06 -1.91e-04 2.34e-04
## 3948 3.62e-03 -3.65e-03 7.64e-03 -2.01e-03 -9.21e-05 -8.16e-04 -1.59e-04
## 3949 -8.03e-04 7.98e-04 -2.01e-03 6.48e-05 2.43e-04 6.18e-05 8.19e-04
## 3950 -6.49e-03 6.52e-03 -1.50e-03 2.81e-04 1.13e-04 8.39e-04 2.08e-03
## 3951 1.23e-03 -1.24e-03 -4.34e-03 1.10e-03 2.29e-04 1.33e-05 -2.32e-04
## 3952 6.60e-05 -6.61e-05 -5.05e-05 4.12e-07 1.04e-06 -2.62e-06 7.81e-06
## 3953 9.85e-03 -9.82e-03 -5.24e-03 -2.45e-03 -1.02e-03 -2.53e-04 -3.86e-04
## 3954 -9.93e-05 9.98e-05 8.91e-04 -1.68e-04 -3.49e-05 -1.38e-05 3.53e-05
## 3955 -3.52e-05 3.43e-05 -5.35e-04 1.55e-04 3.90e-05 1.07e-05 -2.10e-05
## 3956 -5.82e-03 5.86e-03 -6.81e-03 -1.21e-03 -2.53e-04 5.81e-04 2.52e-04
## 3957 -2.86e-04 2.88e-04 -8.20e-05 -7.70e-05 1.63e-05 2.69e-05 -3.58e-06
## 3958 -1.60e-03 1.55e-03 6.90e-03 1.25e-04 -2.16e-04 -3.64e-04 2.63e-03
## 3959 -1.26e-02 1.25e-02 3.22e-03 2.60e-03 1.11e-03 4.55e-04 4.68e-04
## 3960 -1.35e-03 1.35e-03 1.48e-04 -1.42e-04 5.67e-05 8.48e-05 3.87e-05
## 3961 8.09e-04 -8.02e-04 1.26e-04 -5.01e-04 1.01e-05 5.56e-06 -1.20e-04
## 3962 -2.24e-03 2.22e-03 3.67e-03 -1.06e-03 9.16e-05 -2.25e-04 9.47e-05
## 3963 4.17e-04 -4.21e-04 -8.11e-04 9.54e-06 1.07e-05 -9.77e-05 -4.31e-04
## 3964 4.22e-04 -4.26e-04 3.58e-05 -2.40e-05 2.80e-06 -9.63e-05 -3.09e-04
## 3965 -1.16e-03 1.15e-03 1.12e-03 -8.22e-04 5.78e-05 -1.74e-04 5.55e-09
## 3966 8.30e-04 -8.25e-04 9.59e-04 -3.19e-05 -6.20e-05 6.99e-05 5.44e-04
## 3967 -6.22e-04 6.21e-04 -3.96e-04 2.16e-05 3.13e-05 1.49e-06 -1.50e-04
## 3968 -9.15e-04 9.11e-04 -1.16e-03 -5.45e-04 4.97e-05 -7.63e-05 -4.57e-05
## 3969 -1.88e-03 1.88e-03 7.93e-03 -2.67e-04 -2.31e-05 1.69e-04 1.44e-03
## 3970 -2.78e-02 3.03e-02 9.04e-02 8.94e-03 -2.17e-02 3.89e-03 -6.64e-03
## 3971 1.26e-04 -1.37e-04 5.18e-04 -1.06e-03 2.31e-05 -2.86e-04 -9.87e-05
## 3972 -4.36e-03 4.35e-03 1.49e-03 -5.14e-04 1.55e-04 5.31e-05 1.86e-04
## 3973 6.74e-04 -6.79e-04 -1.29e-03 -5.89e-04 -1.97e-06 -1.62e-04 -1.26e-04
## 3974 2.63e-04 -2.63e-04 -2.57e-05 -2.19e-06 -1.71e-05 -1.17e-05 -4.61e-05
## 3975 -3.42e-03 3.40e-03 -4.68e-03 1.38e-04 8.30e-04 1.88e-04 2.81e-03
## 3976 -8.70e-04 8.79e-04 -6.00e-04 -3.79e-04 6.27e-05 1.09e-04 -4.74e-05
## 3977 1.76e-03 -1.71e-03 -2.00e-02 -6.45e-04 -4.43e-04 5.49e-04 -4.18e-04
## 3978 4.37e-03 -4.38e-03 -3.24e-03 2.09e-04 -2.29e-04 -2.31e-04 5.79e-04

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## 3979 -1.27e-02 1.27e-02 3.57e-03 -1.67e-03 -8.15e-05 6.58e-04 8.24e-04
## 3980 3.91e-03 -3.87e-03 -2.19e-02 9.65e-05 -3.13e-04 4.53e-04 -6.17e-04
## 3981 -1.69e-02 1.68e-02 3.51e-03 4.08e-03 2.46e-04 3.69e-04 1.57e-03
## 3982 -5.36e-02 5.34e-02 1.01e-01 1.99e-03 1.12e-03 -6.37e-04 5.83e-03
## 3983 3.89e-03 -3.87e-03 8.00e-04 -2.08e-03 -4.05e-04 -6.09e-04 -1.28e-03
## 3984 1.86e-04 -1.75e-04 2.69e-04 -6.95e-04 -1.11e-04 1.09e-04 6.75e-05
## 3985 3.60e-02 -3.61e-02 -1.05e-02 2.67e-04 -1.47e-03 -1.91e-03 8.82e-04
## 3986 1.24e-05 -4.75e-06 5.88e-03 -1.49e-03 -3.57e-04 -1.08e-04 2.32e-04
## 3987 4.62e-03 -4.62e-03 1.74e-03 -1.24e-04 -3.74e-04 -2.56e-04 -1.03e-03
## 3988 6.39e-04 -6.46e-04 -1.14e-03 1.31e-04 -7.55e-05 -5.79e-05 4.79e-04
## 3989 2.28e-02 -2.29e-02 2.31e-02 2.50e-03 3.18e-04 -2.06e-03 -8.74e-04
## 3990 -6.17e-03 6.14e-03 3.51e-04 4.59e-04 -1.92e-05 9.68e-05 2.39e-03
## 3991 6.41e-03 -6.40e-03 2.02e-03 -1.56e-04 -5.12e-04 -3.44e-04 -1.41e-03
## 3992 5.09e-03 -5.09e-03 -9.64e-04 7.74e-06 -2.16e-04 -1.64e-04 -7.06e-04
## 3993 1.72e-02 -1.72e-02 -4.13e-03 3.02e-03 9.51e-05 2.15e-04 4.02e-03
## 3994 2.06e-03 -2.04e-03 -3.57e-03 -9.35e-04 2.16e-05 1.07e-04 -3.66e-04
## 3995 -1.64e-02 1.63e-02 3.83e-02 -1.59e-03 5.90e-04 -4.24e-04 2.82e-03
## 3996 -2.19e-02 2.18e-02 1.67e-02 3.61e-03 3.81e-04 2.58e-04 2.12e-03
## 3997 3.68e-04 -3.63e-04 -6.27e-04 -3.09e-04 -1.04e-04 1.42e-05 -5.25e-06
## 3998 -1.15e-03 1.15e-03 3.85e-03 -8.23e-04 -7.39e-05 7.61e-05 2.11e-04
## 3999 6.71e-04 -6.69e-04 -1.01e-04 -3.53e-05 -5.05e-06 -1.59e-05 -1.93e-04
## 4000 -2.95e-03 2.93e-03 -7.39e-03 2.38e-04 8.94e-04 2.27e-04 3.01e-03
## 4001 -4.21e-03 4.20e-03 -2.60e-03 1.19e-04 5.45e-04 2.25e-04 1.70e-03
## 4002 5.12e-04 -6.95e-04 -7.52e-04 1.05e-02 1.58e-03 6.37e-03 1.04e-02
## 4003 -4.21e-03 4.20e-03 -2.60e-03 1.19e-04 5.45e-04 2.25e-04 1.70e-03
## 4004 9.51e-04 -9.46e-04 6.05e-04 -1.38e-05 -1.94e-04 -3.89e-05 -6.58e-04
## 4005 2.49e-04 -2.48e-04 -5.88e-04 2.57e-05 -2.59e-05 6.82e-06 -9.89e-05
## 4006 1.78e-02 -1.79e-02 -1.95e-03 5.36e-04 -1.08e-03 -1.38e-03 3.75e-03
## 4007 4.56e-03 -4.60e-03 -1.38e-03 1.65e-03 1.98e-04 3.31e-04 2.37e-03
## 4008 -5.03e-03 5.06e-03 5.40e-04 -1.99e-03 -4.13e-04 3.51e-04 4.16e-04
## 4009 3.24e-02 -3.25e-02 1.04e-03 -7.69e-04 -5.75e-04 -1.84e-03 4.28e-04
## 4010 -2.57e-03 2.57e-03 -6.06e-03 1.38e-03 3.96e-04 2.57e-04 -1.01e-04
## 4011 -3.73e-03 3.72e-03 1.58e-03 -2.14e-05 2.25e-04 1.34e-04 6.22e-04
## 4012 7.31e-04 -7.49e-04 3.57e-03 -4.14e-05 -1.16e-04 -2.24e-04 8.39e-04
## 4013 1.46e-04 -1.44e-04 -2.13e-04 1.49e-05 -4.47e-05 5.49e-06 -1.69e-04
## 4014 4.17e-03 -4.16e-03 2.83e-03 -1.66e-04 -3.59e-04 -2.63e-04 -9.72e-04
## 4015 -7.83e-05 8.04e-05 5.62e-04 -5.59e-05 2.12e-05 7.95e-06 -1.71e-04
## 4016 5.81e-03 -6.04e-03 3.89e-03 1.59e-03 1.40e-03 -3.66e-05 -1.47e-03
## 4017 -1.02e-02 1.02e-02 8.38e-03 -1.20e-03 3.97e-04 4.13e-04 4.93e-04
## 4018 -3.96e-04 3.77e-04 2.20e-03 8.59e-05 -1.03e-04 -1.52e-04 1.12e-03
## 4019 -7.89e-04 7.91e-04 1.04e-03 -2.04e-04 -2.44e-05 2.06e-05 7.49e-05
## 4020 -1.28e-02 1.28e-02 1.75e-03 6.66e-05 9.21e-04 5.40e-04 2.60e-03
## 4021 5.67e-02 -5.67e-02 -3.86e-02 1.47e-04 -1.37e-03 -2.57e-03 1.71e-04
## 4022 7.53e-03 -7.55e-03 -2.74e-03 1.69e-04 -3.60e-04 -4.39e-04 6.88e-04
## 4023 3.27e-03 -3.29e-03 1.76e-03 1.15e-04 -2.72e-04 -3.82e-04 1.39e-03
## 4024 1.19e-03 -1.21e-03 -2.20e-03 2.37e-04 -1.34e-04 -9.94e-05 8.29e-04
## 4025 5.51e-03 -5.55e-03 6.87e-03 1.74e-03 4.11e-04 -5.92e-04 -2.78e-04
## 4026 2.78e-04 -2.79e-04 1.93e-04 3.98e-05 5.55e-06 -2.28e-05 -1.31e-05
## 4027 -1.58e-04 1.56e-04 -4.69e-04 5.59e-05 -1.34e-05 2.15e-06 1.82e-04
## 4028 -3.84e-04 3.78e-04 1.85e-03 2.35e-04 9.62e-05 -4.72e-05 3.53e-05
## 4029 3.63e-03 -3.70e-03 1.01e-03 2.43e-03 4.03e-04 5.90e-04 3.82e-03
## 4030 9.36e-03 -9.30e-03 -2.53e-03 -4.03e-03 -8.56e-04 -1.19e-03 -2.74e-03
## 4031 -5.66e-04 5.62e-04 1.24e-03 -5.81e-05 7.94e-05 -1.65e-05 3.02e-04
## 4032 -2.88e-03 2.91e-03 -1.71e-03 -1.37e-03 -3.22e-04 2.74e-04 2.18e-04

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## 4033 -1.99e-03 1.99e-03 -4.83e-04 7.46e-04 2.60e-04 8.64e-05 2.84e-05
## 4034 -7.43e-02 7.36e-02 7.38e-03 -2.36e-03 8.61e-03 2.36e-03 6.45e-03
## 4035 6.49e-03 -6.48e-03 1.49e-03 -1.34e-04 -5.09e-04 -3.34e-04 -1.41e-03
## 4036 8.55e-03 -8.52e-03 -4.55e-03 -2.12e-03 -8.81e-04 -2.20e-04 -3.35e-04
## 4037 5.88e-03 -5.90e-03 2.34e-03 -2.50e-04 -4.36e-05 -4.06e-04 3.81e-04
## 4038 2.21e-03 -2.22e-03 8.59e-04 -1.13e-04 -3.73e-05 -3.04e-04 -7.32e-04
## 4039 -2.17e-03 2.18e-03 -4.75e-04 8.55e-05 -3.99e-05 1.49e-04 -3.46e-04
## 4040 1.24e-02 -1.24e-02 -2.56e-03 -2.10e-04 -2.98e-04 -1.04e-03 -2.45e-03
## 4041 5.05e-03 -5.07e-03 -3.18e-03 -1.42e-06 -1.03e-04 -4.27e-04 -1.30e-03
## 4042 1.00e-02 -1.00e-02 -6.45e-03 2.78e-05 -2.30e-04 -7.22e-04 -2.11e-03
## 4043 1.22e-02 -1.25e-02 7.01e-03 -1.94e-03 1.59e-03 -3.21e-04 1.72e-03
## 4044 6.28e-03 -6.29e-03 -3.48e-03 1.74e-05 -9.80e-05 -2.53e-04 1.99e-05
## 4045 1.42e-03 -1.42e-03 -6.11e-04 -7.67e-05 6.20e-05 -1.06e-04 -4.32e-04
## 4046 -1.19e-03 1.21e-03 -6.43e-04 -1.27e-03 -1.63e-04 3.27e-04 1.78e-04
## 4047 2.79e-04 -2.80e-04 -1.73e-04 -3.21e-07 5.30e-06 -1.24e-05 3.79e-05
## 4048 -4.79e-02 4.93e-02 6.39e-02 5.34e-03 -9.21e-03 -2.06e-03 -7.58e-03
## 4049 8.34e-03 -8.34e-03 7.67e-04 -1.07e-04 -3.48e-04 -3.52e-04 -1.01e-03
## 4050 -3.02e-02 3.02e-02 -1.60e-02 5.13e-03 1.62e-03 1.34e-03 6.70e-04
## 4051 -7.15e-05 5.87e-05 2.32e-03 -2.08e-04 8.10e-05 -1.94e-04 8.01e-04
## 4052 -5.99e-04 6.31e-04 -2.29e-04 -1.69e-03 1.53e-04 2.25e-04 -2.81e-04
## 4053 -8.88e-03 8.83e-03 7.52e-03 3.23e-03 1.23e-03 9.32e-05 3.19e-04
## 4054 -1.97e-03 2.03e-03 -1.62e-02 -1.37e-03 -5.01e-04 6.67e-04 -1.03e-04
## 4055 5.73e-03 -5.73e-03 2.73e-03 -1.62e-04 -5.59e-04 -3.17e-04 -1.62e-03
## 4056 -7.17e-03 7.17e-03 -5.06e-03 2.71e-04 7.36e-04 4.37e-04 2.12e-03
## 4057 -7.61e-04 7.59e-04 -6.40e-04 2.63e-04 8.82e-05 4.79e-05 3.82e-06
## 4058 -3.03e-03 3.03e-03 1.32e-03 -2.91e-05 2.34e-04 9.89e-05 7.07e-04
## 4059 4.68e-03 -4.68e-03 1.07e-03 -9.69e-05 -3.67e-04 -2.41e-04 -1.01e-03
## 4060 3.47e-03 -3.58e-03 5.20e-04 -6.12e-04 6.43e-04 2.86e-07 6.53e-04
## 4061 -2.56e-03 2.55e-03 1.14e-03 7.40e-04 2.46e-05 2.28e-05 2.79e-04
## 4062 9.24e-07 -9.24e-07 3.05e-07 -2.47e-08 -6.60e-08 -5.15e-08 -1.72e-07
## 4063 -5.12e-04 5.09e-04 -9.23e-03 1.67e-03 3.86e-04 2.29e-04 -2.86e-04
## 4064 -1.31e-04 -4.18e-04 2.07e-03 3.02e-02 4.81e-03 1.82e-02 3.03e-02
## 4065 6.97e-04 -7.02e-04 2.94e-04 -4.14e-05 -6.38e-06 -1.20e-04 -3.25e-04
## 4066 -1.35e-03 1.35e-03 8.47e-04 -2.79e-05 6.09e-05 -3.10e-05 -2.30e-04
## 4067 -2.00e-03 2.02e-03 -3.09e-03 1.30e-03 4.18e-05 4.82e-04 1.38e-04
## 4068 9.99e-04 -1.42e-03 9.97e-03 -2.40e-03 3.40e-03 -1.10e-03 1.73e-03
## 4069 -9.94e-04 1.00e-03 -2.61e-04 7.31e-04 1.41e-05 2.40e-04 1.12e-04
## 4070 -8.48e-04 8.50e-04 8.98e-04 -1.39e-05 -2.77e-05 2.91e-05 -1.49e-04
## 4071 2.22e-03 -2.21e-03 2.56e-03 -1.12e-04 -1.34e-04 4.97e-05 9.09e-04
## 4072 4.95e-04 -4.93e-04 6.63e-04 2.99e-04 -2.71e-05 4.18e-05 2.60e-05
## 4073 -9.84e-04 9.72e-04 2.37e-02 1.21e-03 -8.14e-05 -3.80e-05 8.16e-04
## 4074 1.36e-03 -1.36e-03 3.48e-03 -1.07e-04 -1.14e-04 -7.36e-05 -5.36e-04
## 4075 2.00e-04 -2.08e-04 -5.92e-06 -3.63e-05 3.20e-05 -1.78e-04 -6.76e-04
## 4076 4.07e-03 -4.09e-03 6.87e-04 -1.51e-04 -8.69e-05 -4.48e-04 -1.02e-03
## 4077 4.24e-03 -2.74e-03 5.82e-04 -8.36e-02 -1.34e-02 -5.06e-02 -8.35e-02
## 4078 -3.35e-04 3.43e-04 -1.49e-03 -3.04e-04 -9.22e-05 7.85e-05 1.22e-05
## 4079 2.52e-04 -2.51e-04 2.22e-04 -1.20e-04 -3.85e-05 -1.46e-05 1.60e-06
## 4080 9.53e-03 -9.53e-03 4.19e-03 -3.00e-04 -6.96e-04 -5.58e-04 -1.80e-03
## 4081 2.48e-03 -2.47e-03 -2.15e-03 -2.17e-05 -3.24e-05 -2.60e-05 -5.88e-04
## 4082 -2.37e-03 2.39e-03 -5.74e-03 -9.01e-04 -2.49e-04 3.47e-04 7.82e-05
## 4083 2.19e-03 -2.21e-03 -1.04e-03 2.10e-04 -1.98e-04 -2.13e-04 1.08e-03
## 4084 -7.33e-04 7.25e-04 1.33e-03 -1.28e-04 8.76e-05 -1.03e-04 6.54e-04
## 4085 9.59e-03 -9.60e-03 -2.53e-03 -1.01e-04 -1.53e-04 -4.65e-04 1.05e-04
## 4086 1.07e-02 -1.07e-02 -1.04e-02 -2.14e-03 -1.47e-04 -1.56e-05 -1.17e-03

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## 4087  1.24e-03 -1.25e-03  3.55e-04  3.34e-04 -7.06e-05 -1.16e-04  1.55e-05
## 4088 -1.31e-04  1.39e-04 -1.03e-03 -2.95e-04  3.32e-05  7.37e-05 -7.84e-05
## 4089 -1.05e-02  1.04e-02  3.58e-02 -1.11e-03  7.44e-05 -6.52e-04  3.15e-03
## 4090  8.15e-04 -8.07e-04  2.06e-03 -9.90e-04 -2.79e-04 -5.90e-05  7.89e-05
## 4091 -2.43e-04  2.47e-04 -1.99e-04 -3.13e-04 -8.34e-05  3.43e-05  3.32e-05
## 4092  1.49e-02 -1.55e-02 -2.48e-03  2.98e-03  4.41e-03 -1.79e-03 -4.36e-03
## 4093 -3.21e-03  3.23e-03  1.13e-02 -2.87e-03 -5.97e-04 -3.47e-05  6.04e-04
## 4094 -5.49e-03  5.47e-03 -1.56e-03 -2.60e-03  2.61e-04 -3.76e-04 -5.70e-05
## 4095 -3.74e-03  3.42e-03 -1.81e-02  5.65e-03  3.31e-03  1.04e-03 -5.78e-04
## 4096 -1.83e-03  1.84e-03  6.68e-04  3.36e-05  2.51e-05  2.26e-04  6.89e-04
## 4097  4.27e-03 -4.30e-03 -9.84e-03  1.78e-03  2.80e-04  9.23e-05 -1.43e-03
## 4098 -1.61e-05  1.60e-05  1.66e-05 -2.01e-06  1.10e-06  4.75e-07  3.43e-06
## 4099 -2.76e-03  2.79e-03 -3.88e-03  7.62e-04 -1.08e-04  2.25e-04 -7.38e-04
## 4100 -3.16e-03  3.21e-03 -2.65e-03 -1.46e-03 -3.54e-04  1.97e-04  1.25e-03
## 4101 -2.89e-03  2.93e-03 -6.71e-04 -1.16e-03 -2.55e-04  1.38e-04  1.00e-03
## 4102  1.31e-03 -1.30e-03  1.29e-03 -1.08e-03 -3.27e-04 -5.79e-05  4.77e-05
## 4103  7.97e-04 -8.00e-04  5.09e-04 -4.45e-05  3.30e-06 -6.22e-05  9.34e-05
## 4104 -1.93e-04  1.98e-04 -6.02e-04  5.19e-05 -9.74e-05  4.61e-05 -4.13e-04
## 4105 -9.83e-04  9.88e-04 -1.53e-04 -2.53e-04 -4.57e-05  7.00e-05  6.55e-05
## 4106  1.33e-02 -1.33e-02  2.06e-02 -4.06e-03 -1.29e-03 -1.15e-03  7.16e-05
## 4107 -3.99e-03  3.99e-03 -4.84e-03  2.35e-04  4.54e-04  2.93e-04  1.29e-03
## 4108  7.05e-03 -7.02e-03  6.21e-03 -3.37e-03 -1.08e-03 -4.08e-04  4.47e-05
## 4109  1.25e-02 -1.25e-02  3.73e-04 -1.85e-03 -6.61e-04 -3.78e-04 -4.19e-04
## 4110  7.57e-03 -7.60e-03 -1.15e-03 -1.83e-04 -1.42e-04 -8.28e-04 -2.21e-03
## 4111 -1.97e-03  2.03e-03 -1.62e-02 -1.37e-03 -5.01e-04  6.67e-04 -1.03e-04
## 4112  2.52e-03 -2.51e-03 -7.40e-05 -2.99e-05 -1.01e-04 -5.45e-05  1.85e-04
## 4113 -1.87e-03  1.88e-03  6.48e-03 -1.56e-03 -3.19e-04 -2.19e-05  3.40e-04
## 4114 -4.84e-03  4.85e-03  1.02e-03 -1.15e-03 -1.79e-04  2.85e-04  3.48e-04
## 4115  4.29e-03 -4.30e-03 -3.17e-03  2.05e-04 -2.24e-04 -2.26e-04  5.67e-04
## 4116  6.59e-03 -6.60e-03  3.12e-03 -3.04e-04 -4.56e-05 -4.70e-04  4.54e-04
## 4117 -1.46e-03  1.46e-03  1.53e-03  4.42e-05 -8.23e-06 -1.85e-05  6.06e-04
## 4118  4.13e-03 -4.15e-03  2.45e-03 -1.43e-03 -1.07e-04 -6.08e-04 -2.66e-04
## 4119  1.06e-02 -1.06e-02 -2.19e-03 -1.97e-04 -2.33e-04 -9.77e-04 -2.46e-03
## 4120  2.10e-02 -2.15e-02 -8.62e-03  2.59e-03  3.36e-03 -1.75e-03 -4.16e-03
## 4121  3.72e-05 -3.77e-05  2.00e-04 -1.08e-05  3.68e-06 -8.60e-06  2.36e-05
## 4122 -3.32e-03  3.34e-03  1.40e-04  1.17e-04  3.93e-05  4.76e-04  1.37e-03
## 4123 -1.43e-03  1.44e-03 -4.36e-04  7.62e-05  1.40e-05  2.36e-04  6.46e-04
## 4124 -4.32e-03  4.36e-03 -1.05e-02 -1.64e-03 -4.53e-04  6.32e-04  1.42e-04
## 4125 -1.35e-03  1.35e-03  4.11e-04 -2.07e-05  7.68e-05 -8.28e-05 -4.96e-04
## 4126 -1.90e-03  1.89e-03  3.48e-03 -7.69e-04  7.30e-05 -1.64e-04  1.04e-04
## 4127 -6.84e-03  6.82e-03  2.75e-03 -1.69e-03  2.66e-04 -1.49e-04  2.14e-04
## 4128  2.01e-03 -2.03e-03  2.16e-04 -1.17e-04  1.39e-05 -4.62e-04 -1.48e-03
## 4129  3.26e-03 -3.26e-03 -9.04e-04 -4.34e-05  4.83e-06 -1.67e-04  2.55e-04
## 4130 -2.20e-04  2.32e-04 -8.39e-05 -6.21e-04  5.61e-05  8.24e-05 -1.03e-04
## 4131  1.75e-03 -1.75e-03  5.55e-04 -7.34e-05  1.49e-05 -1.22e-04  2.17e-04
## 4132 -5.62e-03  5.59e-03  5.70e-03  1.81e-03  7.23e-04  4.17e-05  2.39e-04
## 4133  8.13e-03 -8.16e-03 -6.56e-03  1.89e-03  1.07e-04  3.12e-04  2.19e-03
## 4134 -3.67e-04  3.42e-04  2.81e-03 -2.30e-03  6.61e-05 -6.19e-04 -1.40e-04
## 4135  2.08e-03 -2.05e-03 -3.79e-03 -1.50e-03 -5.20e-04  7.64e-05 -5.37e-05
## 4136 -1.11e-02  1.11e-02  9.87e-03 -1.51e-03  4.44e-04  4.48e-04  5.25e-04
## 4137  2.36e-03 -2.39e-03  1.27e-03  8.30e-05 -1.97e-04 -2.77e-04  1.01e-03
## 4138  7.29e-04 -7.25e-04  1.83e-03 -5.88e-05 -2.21e-04 -5.61e-05 -7.43e-04
## 4139  1.87e-04 -1.85e-04 -1.49e-04  1.43e-04 -9.71e-06  3.02e-05  1.99e-06
## 4140 -3.70e-03  3.69e-03 -5.42e-03  1.57e-03  4.86e-04  2.89e-04 -4.92e-05

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## 4141 8.77e-04 -1.21e-03 1.33e-05 1.87e-02 2.84e-03 1.14e-02 1.87e-02
## 4142 -1.15e-02 1.15e-02 7.30e-03 -1.83e-03 -1.20e-04 4.85e-04 8.48e-04
## 4143 7.34e-03 -7.39e-03 -1.34e-03 3.69e-04 -5.20e-04 -6.30e-04 2.26e-03
## 4144 3.87e-03 -3.89e-03 6.59e-03 -5.34e-04 -1.21e-05 -5.96e-04 1.12e-03
## 4145 -7.40e-03 7.37e-03 5.47e-03 -2.56e-03 3.00e-04 -3.92e-04 2.26e-04
## 4146 0.00e+00 0.00e+00 0.00e+00 0.00e+00 0.00e+00 0.00e+00 0.00e+00
## 4147 -9.12e-03 9.11e-03 7.29e-03 -1.60e-03 7.16e-04 7.19e-05 1.60e-04
## 4148 -3.91e-03 3.56e-03 1.30e-02 -3.27e-03 4.69e-03 -5.38e-04 7.72e-04
## 4149 -4.59e-03 4.58e-03 9.39e-03 -2.99e-03 9.25e-04 -4.00e-04 -3.76e-04
## 4150 1.07e-03 -1.06e-03 -3.52e-05 4.63e-04 -4.85e-05 6.80e-05 -2.44e-06
## 4151 -1.59e-03 1.57e-03 7.63e-05 -1.63e-03 9.81e-05 -3.44e-04 -9.16e-05
## 4152 1.56e-02 -1.56e-02 -1.21e-02 1.82e-04 -1.43e-04 -5.47e-04 3.34e-04
## 4153 1.15e-03 -9.86e-04 7.35e-04 -9.47e-03 -1.48e-03 -5.81e-03 -9.44e-03
## 4154 1.62e-03 -1.62e-03 -3.36e-04 1.30e-04 -6.41e-05 -9.23e-05 -5.84e-05
## 4155 -1.82e-03 1.81e-03 -1.53e-03 6.28e-04 2.11e-04 1.14e-04 9.11e-06
## 4156 1.53e-03 -1.53e-03 -9.39e-04 4.52e-06 -3.84e-06 -6.23e-05 7.96e-05
## 4157 -2.44e-03 2.46e-03 -1.91e-04 -9.15e-04 1.56e-04 2.40e-04 -6.10e-05
## 4158 -9.59e-04 9.56e-04 7.52e-04 1.99e-04 9.04e-05 1.92e-05 4.53e-05
## 4159 4.48e-03 -4.46e-03 1.16e-02 -9.90e-04 6.13e-05 -3.35e-04 -2.15e-03
## 4160 -4.38e-03 4.43e-03 -1.06e-02 -1.67e-03 -4.60e-04 6.42e-04 1.45e-04
## 4161 -5.28e-03 5.27e-03 3.80e-03 -1.13e-04 3.75e-04 1.35e-04 1.15e-03
## 4162 4.83e-04 -4.85e-04 2.82e-04 -1.67e-04 -1.26e-05 -7.08e-05 -3.11e-05
## 4163 -2.20e-03 2.20e-03 -3.45e-03 1.45e-04 3.50e-04 1.67e-04 1.07e-03
## 4164 -4.08e-04 4.51e-04 3.13e-03 3.14e-04 -6.43e-04 -2.30e-04 -1.00e-04
## 4165 7.01e-03 -7.00e-03 -3.05e-03 5.23e-05 -4.68e-04 -2.42e-04 -1.35e-03
## 4166 1.83e-03 -1.83e-03 6.78e-04 -3.40e-05 -2.23e-04 -8.76e-05 -6.99e-04
## 4167 -3.57e-04 3.49e-04 2.99e-04 5.92e-04 1.79e-04 -1.85e-05 -2.43e-05
## 4168 -2.05e-03 2.04e-03 -1.49e-04 -1.47e-05 1.17e-04 3.56e-05 5.30e-04
## 4169 3.03e-03 -3.02e-03 -4.87e-03 -5.21e-04 -2.82e-04 1.05e-05 -2.00e-04
## 4170 -1.26e-02 1.23e-02 1.87e-02 2.14e-03 2.97e-03 1.08e-03 -5.94e-04
## 4171 -1.89e-02 1.89e-02 -1.33e-02 4.99e-03 1.78e-03 1.19e-03 2.69e-04
## 4172 4.13e-04 -4.12e-04 1.64e-04 -4.88e-06 -2.25e-05 -1.32e-05 -9.12e-05
## 4173 2.66e-03 -2.65e-03 5.00e-03 -1.70e-03 -5.00e-04 -2.15e-04 1.02e-04
## 4174 -2.43e-04 2.47e-04 -1.99e-04 -3.13e-04 -8.34e-05 3.43e-05 3.32e-05
## 4175 1.31e-03 -1.30e-03 1.29e-03 -1.08e-03 -3.27e-04 -5.79e-05 4.77e-05
## 4176 -2.16e-03 2.16e-03 -2.98e-05 2.84e-05 1.45e-04 1.03e-04 3.86e-04
## 4177 2.51e-03 -2.47e-03 -1.21e-02 -1.54e-03 -6.29e-04 3.08e-04 -2.31e-04
## 4178 -5.53e-03 5.51e-03 2.32e-03 -2.13e-03 2.36e-04 -3.20e-04 9.82e-05
## 4179 -4.77e-03 4.75e-03 2.00e-03 -1.84e-03 2.04e-04 -2.76e-04 8.47e-05
## 4180 -1.58e-03 1.59e-03 3.17e-03 1.21e-03 8.92e-06 3.34e-04 2.81e-04
## 4181 -3.99e-03 3.97e-03 -3.40e-04 -1.79e-03 1.84e-04 -2.61e-04 -9.76e-06
## 4182 -1.71e-02 1.70e-02 8.83e-03 -1.50e-03 5.83e-04 2.89e-04 8.64e-04
## 4183 -1.90e-03 1.90e-03 5.38e-04 3.41e-05 -5.02e-05 1.05e-04 -3.32e-04
## 4184 6.78e-04 -6.77e-04 -1.67e-04 -1.71e-06 -2.64e-05 -1.22e-05 3.99e-05
## 4185 -7.96e-02 7.94e-02 2.01e-01 -4.44e-03 2.10e-03 -6.77e-04 8.68e-03
## 4186 8.30e-04 -8.51e-04 2.99e-03 -2.15e-04 4.10e-05 -4.54e-04 -1.26e-03
## 4187 -3.13e-03 3.75e-03 -1.72e-02 3.72e-03 -4.04e-03 -4.42e-04 -4.68e-03
## 4188 -2.50e-03 2.49e-03 1.05e-03 -9.63e-04 1.07e-04 -1.44e-04 4.43e-05
## 4189 2.70e-04 -2.79e-04 1.69e-05 -9.00e-04 1.57e-05 -2.44e-04 -1.03e-04
## 4190 -3.97e-03 3.95e-03 2.27e-03 -1.46e-03 1.66e-04 -2.20e-04 9.45e-05
## 4191 6.87e-03 -6.91e-03 -2.45e-03 2.52e-03 4.93e-04 -4.18e-04 -5.85e-04
## 4192 -2.64e-04 2.64e-04 5.23e-05 -6.85e-05 1.06e-05 -5.74e-06 6.47e-06
## 4193 -1.06e-03 1.05e-03 5.14e-04 -9.32e-04 5.96e-05 -1.96e-04 -3.22e-05
## 4194 8.71e-03 -8.73e-03 -6.13e-04 -2.20e-04 1.21e-04 -5.17e-04 1.16e-03

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## 4195 -2.36e-03 2.35e-03 -1.69e-03 9.74e-05 2.05e-04 1.51e-04 5.53e-04
## 4196 3.38e-03 -3.39e-03 -2.06e-03 -1.15e-04 9.18e-06 -3.04e-04 8.27e-04
## 4197 -3.75e-03 3.74e-03 -1.75e-03 8.66e-04 7.24e-05 1.71e-04 2.64e-04
## 4198 2.66e-04 -2.60e-04 -3.57e-04 -3.05e-04 -5.67e-05 5.48e-05 1.19e-05
## 4199 -2.88e-04 2.83e-04 -8.51e-04 -5.98e-04 2.90e-05 -1.25e-04 -7.09e-05
## 4200 2.67e-03 -2.68e-03 -1.42e-03 -5.81e-04 9.25e-05 -1.86e-04 -3.40e-04
## 4201 -8.93e-03 8.99e-03 -1.42e-02 3.49e-03 2.52e-04 1.56e-03 3.72e-04
## 4202 1.31e-03 -1.32e-03 4.54e-04 -5.74e-04 -2.98e-05 -2.18e-04 -1.05e-04
## 4203 2.84e-03 -2.86e-03 2.24e-03 -1.46e-03 -6.25e-05 -5.49e-04 -2.16e-04
## 4204 -3.43e-03 3.44e-03 -1.99e-04 9.39e-04 8.99e-05 4.09e-04 2.46e-04
## 4205 -6.33e-03 6.48e-03 1.81e-02 1.40e-04 -1.33e-03 1.56e-04 3.91e-05
## 4206 6.35e-03 -6.34e-03 -7.08e-03 -8.30e-04 1.14e-04 -2.82e-04 -7.75e-04
## 4207 -2.89e-03 2.87e-03 8.89e-04 -5.45e-05 4.44e-04 6.53e-05 1.52e-03
## 4208 1.54e-03 -1.54e-03 -3.96e-04 1.93e-05 -7.50e-05 -3.13e-05 -3.04e-04
## 4209 1.13e-02 -1.13e-02 1.72e-02 3.00e-05 -4.38e-04 -8.24e-04 -3.71e-05
## 4210 -1.46e-03 1.46e-03 -4.17e-04 -1.27e-04 6.29e-09 9.75e-05 7.34e-05
## 4211 -1.59e-03 1.58e-03 -1.34e-03 5.49e-04 1.84e-04 1.00e-04 7.96e-06
## 4212 -1.14e-03 1.13e-03 -5.22e-04 2.70e-04 1.02e-04 6.43e-05 2.39e-05
## 4213 3.90e-04 -3.88e-04 5.02e-05 1.35e-06 -6.90e-05 -1.21e-05 -2.35e-04
## 4214 -1.91e-03 1.91e-03 1.83e-03 2.65e-04 3.52e-05 1.58e-05 1.88e-04
## 4215 -4.57e-04 4.62e-04 1.86e-03 -6.41e-04 -1.48e-04 -1.21e-06 1.09e-04
## 4216 2.26e-03 -2.25e-03 -2.14e-03 -4.08e-04 -2.00e-04 -3.68e-05 -1.19e-04
## 4217 4.24e-03 -4.28e-03 -3.33e-03 3.17e-03 7.39e-04 -2.80e-04 -5.26e-04
## 4218 -3.86e-03 3.84e-03 -3.40e-03 1.84e-03 5.88e-04 2.23e-04 -2.45e-05
## 4219 -2.45e-03 2.44e-03 -8.93e-03 2.27e-03 6.11e-04 2.96e-04 -2.33e-04
## 4220 5.64e-06 -5.97e-06 8.28e-05 1.16e-05 3.99e-06 -3.40e-06 3.77e-07
## 4221 5.37e-03 -5.35e-03 -1.09e-03 -1.62e-03 -6.15e-04 -1.78e-04 -1.53e-04
## 4222 3.82e-06 -3.81e-06 1.00e-05 -2.90e-06 -8.16e-07 -3.72e-07 2.38e-07
## 4223 5.38e-03 -5.36e-03 2.05e-03 -1.74e-03 -6.25e-05 -1.76e-04 -4.82e-04
## 4224 -2.42e-03 2.42e-03 4.53e-03 -9.18e-04 -1.43e-04 3.60e-05 2.78e-04
## 4225 -6.53e-02 6.59e-02 3.94e-02 -4.14e-03 -6.25e-03 3.80e-04 1.06e-02
## 4226 -1.17e-03 1.17e-03 -1.03e-03 5.59e-04 1.79e-04 6.77e-05 -7.43e-06
## 4227 2.55e-03 -2.54e-03 -5.31e-04 -6.18e-04 -3.73e-05 -5.59e-05 -2.38e-04
## 4228 1.27e-04 -1.23e-04 1.29e-04 -2.61e-04 1.50e-05 1.70e-05 -4.78e-05
## 4229 -9.34e-04 8.84e-04 -1.95e-03 4.13e-03 1.17e-03 -8.98e-05 -3.23e-04
## 4230 5.42e-03 -5.40e-03 7.25e-03 -2.48e-03 -3.68e-05 -2.72e-04 -4.54e-04
## 4231 1.04e-02 -1.03e-02 -4.72e-03 -1.07e-03 -4.99e-04 -2.14e-04 -4.86e-04
## 4232 -6.86e-03 6.73e-03 6.22e-02 4.80e-04 9.84e-04 -1.56e-03 1.49e-03
## 4233 -4.98e-02 4.95e-02 1.09e-02 2.22e-03 5.70e-03 3.30e-03 -6.53e-04
## 4234 -5.27e-04 5.52e-04 3.47e-03 -1.95e-03 -2.68e-04 2.65e-04 2.90e-04
## 4235 -8.82e-04 8.81e-04 -3.31e-04 2.37e-05 7.14e-05 4.88e-05 1.96e-04
## 4236 1.07e-02 -1.07e-02 4.64e-03 -2.34e-03 -6.60e-04 -3.40e-04 -2.01e-04
## 4237 5.34e-03 -5.33e-03 9.98e-03 -2.54e-03 -7.56e-04 -4.70e-04 1.34e-04
## 4238 -5.66e-03 5.67e-03 3.66e-03 -3.59e-06 1.15e-04 4.73e-04 1.45e-03
## 4239 6.33e-03 -6.35e-03 -2.30e-03 -1.97e-03 -1.50e-04 -7.71e-04 -5.50e-04
## 4240 -2.79e-03 2.80e-03 8.19e-04 9.03e-04 6.59e-05 3.52e-04 2.41e-04
## 4241 9.88e-05 -9.98e-05 -1.34e-05 -5.99e-06 2.05e-05 -9.10e-06 8.73e-05
## 4242 -6.31e-03 6.33e-03 2.08e-03 -9.18e-04 2.77e-04 3.78e-04 1.79e-04
## 4243 1.70e-03 -1.71e-03 -9.37e-04 -4.73e-04 -4.09e-05 -1.88e-04 -1.51e-04
## 4244 8.12e-03 -8.13e-03 -2.61e-03 -9.11e-05 7.87e-06 -4.05e-04 6.08e-04
## 4245 1.58e-03 -1.59e-03 1.16e-03 -7.99e-04 -3.50e-05 -3.00e-04 -1.21e-04
## 4246 5.53e-04 -5.57e-04 -4.04e-03 -8.32e-04 1.82e-05 -1.73e-04 -2.20e-04
## 4247 9.55e-04 -9.63e-04 5.63e-04 -7.91e-04 -1.21e-05 -2.58e-04 -1.08e-04
## 4248 2.90e-03 -2.90e-03 6.04e-03 1.78e-05 -5.94e-04 -1.08e-04 1.58e-03

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## 4249  2.19e-03 -2.20e-03 -4.97e-03 -9.40e-04 -3.06e-05 -2.63e-04 -3.31e-04
## 4250 -3.33e-03  3.34e-03 -5.44e-03  2.36e-03 -4.92e-04  6.23e-04  6.58e-04
## 4251 -4.16e-03  4.15e-03 -3.37e-03 -9.21e-04  1.76e-04  2.02e-05  2.92e-06
## 4252  1.57e-03 -1.56e-03 -8.15e-03 -3.26e-04 -1.56e-05 -2.25e-05 -3.27e-04
## 4253  2.46e-03 -2.46e-03 -5.69e-03 -9.14e-04 -3.78e-05 -2.57e-04 -3.60e-04
## 4254 -1.10e-02  1.10e-02 -2.95e-03  2.31e-03  2.17e-04  4.53e-04  8.00e-04
## 4255  1.75e-02 -1.78e-02  1.66e-02 -3.18e-03  2.41e-03 -6.43e-04  4.37e-04
## 4256 -1.76e-02  1.75e-02  3.09e-02  1.04e-03  3.49e-04 -1.76e-04  1.91e-03
## 4257  5.34e-03 -5.33e-03  9.98e-03 -2.54e-03 -7.56e-04 -4.70e-04  1.34e-04
## 4258 -5.66e-03  5.67e-03  3.66e-03 -3.59e-06  1.15e-04  4.73e-04  1.45e-03
## 4259  6.33e-03 -6.35e-03 -2.30e-03 -1.97e-03 -1.50e-04 -7.71e-04 -5.50e-04
## 4260 -2.79e-03  2.80e-03  8.19e-04  9.03e-04  6.59e-05  3.52e-04  2.41e-04
## 4261  9.88e-05 -9.98e-05 -1.34e-05 -5.99e-06  2.05e-05 -9.10e-06  8.73e-05
## 4262 -6.31e-03  6.33e-03  2.08e-03 -9.18e-04  2.77e-04  3.78e-04  1.79e-04
## 4263  1.70e-03 -1.71e-03 -9.37e-04 -4.73e-04 -4.09e-05 -1.88e-04 -1.51e-04
## 4264  8.12e-03 -8.13e-03 -2.61e-03 -9.11e-05  7.87e-06 -4.05e-04  6.08e-04
## 4265  1.58e-03 -1.59e-03  1.16e-03 -7.99e-04 -3.50e-05 -3.00e-04 -1.21e-04
## 4266  5.53e-04 -5.57e-04 -4.04e-03 -8.32e-04  1.82e-05 -1.73e-04 -2.20e-04
## 4267  9.55e-04 -9.63e-04  5.63e-04 -7.91e-04 -1.21e-05 -2.58e-04 -1.08e-04
## 4268  2.90e-03 -2.90e-03  6.04e-03  1.78e-05 -5.94e-04 -1.08e-04  1.58e-03
## 4269  2.19e-03 -2.20e-03 -4.97e-03 -9.40e-04 -3.06e-05 -2.63e-04 -3.31e-04
## 4270 -3.33e-03  3.34e-03 -5.44e-03  2.36e-03 -4.92e-04  6.23e-04  6.58e-04
## 4271 -4.16e-03  4.15e-03 -3.37e-03 -9.21e-04  1.76e-04  2.02e-05  2.92e-06
## 4272  1.57e-03 -1.56e-03 -8.15e-03 -3.26e-04 -1.56e-05 -2.25e-05 -3.27e-04
## 4273  2.46e-03 -2.46e-03 -5.69e-03 -9.14e-04 -3.78e-05 -2.57e-04 -3.60e-04
## 4274 -1.10e-02  1.10e-02 -2.95e-03  2.31e-03  2.17e-04  4.53e-04  8.00e-04
## 4275  1.75e-02 -1.78e-02  1.66e-02 -3.18e-03  2.41e-03 -6.43e-04  4.37e-04
## 4276 -1.76e-02  1.75e-02  3.09e-02  1.04e-03  3.49e-04 -1.76e-04  1.91e-03
## 4277  9.93e-04 -9.99e-04 -3.69e-03  2.08e-05  7.84e-05 -1.10e-04  7.87e-04
## 4278  1.01e-02 -1.01e-02 -6.17e-03 -1.89e-03 -1.69e-04 -1.48e-04 -9.71e-04
## 4279 -2.32e-03  2.32e-03 -8.26e-04  6.73e-05  1.52e-04  1.33e-04  3.79e-04
## 4280 -1.12e-03  1.09e-03  4.57e-03  5.57e-05 -1.23e-04 -2.20e-04  1.58e-03
## 4281 -1.81e-03  1.77e-03  6.49e-03 -5.17e-06 -1.14e-04 -2.47e-04  1.73e-03
## 4282 -4.18e-04  4.19e-04  2.30e-04  1.89e-06 -8.56e-06  1.95e-05 -6.00e-05
## 4283  1.00e-04 -1.01e-04  3.26e-05 -9.03e-06  2.50e-05 -1.13e-05  1.06e-04
## 4284 -3.63e-03  3.61e-03  2.30e-03  1.29e-04  1.28e-05  2.58e-05  1.18e-03
## 4285  8.38e-03 -8.40e-03 -5.36e-03  3.10e-04 -4.07e-04 -4.33e-04  8.17e-04
## 4286  8.37e-03 -8.41e-03  6.49e-03 -1.44e-04 -4.85e-04 -8.21e-04  1.58e-03
## 4287  3.28e-03 -3.24e-03 -1.34e-02 -5.81e-04  7.72e-06  3.28e-04 -6.59e-04
## 4288 -4.01e-02  3.98e-02  8.96e-03  2.28e-03  5.73e-03  2.92e-03 -1.43e-03
## 4289 -4.82e-04  4.68e-04  3.42e-03 -2.50e-04  9.19e-05 -2.03e-04  8.43e-04
## 4290  3.56e-03 -3.55e-03  1.63e-03 -8.45e-04 -3.18e-04 -2.01e-04 -7.48e-05
## 4291  9.65e-03 -9.68e-03 -9.52e-04  8.49e-05 -4.58e-04 -6.26e-04  8.53e-04
## 4292  7.38e-04 -7.05e-04 -3.66e-03 -1.40e-03  1.04e-04  2.34e-04 -3.94e-04
## 4293 -2.83e-03  2.85e-03 -3.82e-03 -9.10e-04 -2.18e-04  3.13e-04  1.38e-04
## 4294  2.41e-03 -2.40e-03 -4.86e-04 -1.37e-05 -9.06e-05 -6.08e-05  8.63e-05
## 4295 -1.23e-02  1.18e-02  9.33e-03 -2.83e-03  5.12e-03 -6.64e-04  2.91e-03
## 4296 -2.90e-05  2.93e-05  1.18e-04 -4.06e-05 -9.37e-06 -7.69e-08  6.93e-06
## 4297  2.41e-03 -2.41e-03 -1.88e-04 -2.68e-05 -9.20e-05 -6.67e-05  1.04e-04
## 4298  3.34e-02 -3.41e-02  2.97e-03  2.95e-03  4.67e-03 -3.12e-03 -5.76e-03
## 4299 -1.72e-03  1.73e-03  2.40e-03 -3.45e-05 -1.59e-04  6.07e-05 -6.81e-04
## 4300 -5.07e-02  5.03e-02 -5.35e-03  4.85e-03  4.79e-03  3.58e-03 -1.93e-04
## 4301 -2.40e-02  2.37e-02  9.75e-03 -1.35e-03  3.22e-03  4.53e-04  2.45e-03
## 4302  5.74e-03 -5.75e-03 -5.07e-03  2.32e-04 -2.48e-04 -2.30e-04  2.69e-04

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## 4303 -2.58e-02 2.57e-02 1.35e-02 -8.28e-04 2.09e-03 7.05e-04 2.10e-03
## 4304 -2.25e-03 2.25e-03 8.55e-04 -1.67e-05 9.72e-05 -1.24e-05 -3.02e-04
## 4305 -2.01e-02 2.16e-02 -4.57e-02 9.42e-03 -1.17e-02 5.13e-03 -5.66e-03
## 4306 -7.38e-03 7.41e-03 1.71e-02 -3.25e-03 4.09e-04 1.91e-04 2.75e-04
## 4307 -1.15e-03 1.15e-03 2.72e-04 -5.84e-06 5.58e-05 -2.62e-05 -2.56e-04
## 4308 1.10e-02 -1.10e-02 9.52e-03 -1.69e-03 -5.46e-04 -6.61e-04 -1.97e-04
## 4309 1.10e-02 -1.09e-02 -1.49e-03 -5.70e-05 -7.88e-04 -4.62e-04 -2.23e-03
## 4310 4.18e-03 -4.20e-03 2.32e-03 -2.49e-04 -6.83e-05 -6.11e-04 -1.43e-03
## 4311 -1.47e-03 1.45e-03 5.47e-03 -2.01e-03 8.62e-05 -5.37e-04 1.24e-05
## 4312 -9.35e-03 9.71e-03 1.66e-03 -1.86e-03 -2.75e-03 1.12e-03 2.73e-03
## 4313 -4.73e-03 4.73e-03 -7.33e-03 1.68e-03 5.25e-04 3.98e-04 -4.39e-05
## 4314 -1.47e-02 1.54e-02 -3.99e-02 4.85e-03 -3.43e-03 8.63e-04 -4.46e-03
## 4315 1.81e-03 -1.80e-03 -4.50e-03 -1.63e-04 -1.43e-04 4.80e-05 -1.61e-04
## 4316 7.49e-04 -7.48e-04 3.57e-04 -2.12e-05 -7.30e-05 -4.14e-05 -2.12e-04
## 4317 -3.41e-04 3.48e-04 -2.80e-04 -4.40e-04 -1.17e-04 4.82e-05 4.66e-05
## 4318 1.81e-03 -1.80e-03 -1.03e-04 -1.35e-04 5.63e-06 -2.84e-05 -7.03e-04
## 4319 9.13e-03 -9.15e-03 -5.63e-03 2.85e-04 -4.17e-04 -4.51e-04 6.36e-04
## 4320 -3.33e-03 3.34e-03 1.65e-03 -7.41e-04 -9.88e-05 1.65e-04 2.54e-04
## 4321 1.92e-03 -1.93e-03 -8.78e-04 1.08e-04 -1.27e-04 -1.42e-04 5.05e-04
## 4322 6.58e-03 -6.61e-03 5.83e-03 -4.31e-04 -2.83e-05 -5.51e-04 6.06e-04
## 4323 5.64e-06 -5.97e-06 8.28e-05 1.16e-05 3.99e-06 -3.40e-06 3.77e-07
## 4324 2.00e-03 -2.00e-03 -9.56e-04 -6.55e-05 -2.01e-05 -3.55e-05 -5.30e-04
## 4325 2.25e-03 -2.24e-03 2.90e-04 7.77e-06 -3.99e-04 -7.00e-05 -1.36e-03
## 4326 3.38e-02 -3.38e-02 -7.11e-03 1.41e-04 -1.39e-03 -1.88e-03 9.79e-04
## 4327 3.64e-03 -3.67e-03 9.37e-03 -6.77e-04 5.89e-06 -6.89e-04 1.34e-03
## 4328 4.77e-03 -4.76e-03 -9.62e-04 -1.96e-04 -6.32e-05 -1.34e-04 -1.12e-03
## 4329 2.71e-03 -2.68e-03 -3.74e-03 -1.79e-03 6.64e-05 1.70e-04 -5.53e-04
## 4330 3.01e-04 -3.06e-04 -4.34e-04 7.35e-05 -4.61e-05 -4.05e-05 3.25e-04
## 4331 -6.06e-04 6.43e-04 -4.79e-03 -1.37e-03 1.54e-04 3.42e-04 -3.64e-04
## 4332 -4.21e-03 4.21e-03 4.24e-03 2.21e-04 1.81e-04 4.12e-05 2.62e-04
## 4333 -3.41e-03 3.38e-03 7.85e-03 9.11e-04 4.34e-04 -1.00e-04 2.44e-04
## 4334 9.50e-04 -9.18e-04 9.59e-04 -1.94e-03 1.12e-04 1.27e-04 -3.56e-04
## 4335 -7.84e-04 7.47e-04 1.45e-02 5.87e-04 3.40e-04 -4.28e-04 2.68e-04
## 4336 2.64e-03 -2.62e-03 6.88e-04 -1.09e-03 -1.09e-05 -5.03e-05 -2.87e-04
## 4337 2.64e-03 -2.62e-03 6.88e-04 -1.09e-03 -1.09e-05 -5.03e-05 -2.87e-04
## 4338 4.85e-04 -4.93e-04 3.51e-04 4.47e-05 -6.04e-05 -7.90e-05 3.96e-04
## 4339 -4.42e-03 4.40e-03 4.48e-03 1.42e-03 5.69e-04 3.28e-05 1.88e-04
## 4340 3.60e-03 -3.59e-03 -4.05e-04 2.25e-06 -3.85e-04 -1.32e-04 -1.22e-03
## 4341 -6.60e-03 6.59e-03 -6.67e-03 3.33e-04 7.21e-04 4.52e-04 2.06e-03
## dfb.x4In dfb.x4TD dfb.x5Mn dfb.xA0 dfb.x6SO dfb.x6DC dfb.x6T0
## 1 3.93e-04 3.24e-05 1.53e-05 -4.29e-04 -8.16e-04 7.13e-05 -6.18e-04
## 2 1.84e-03 1.20e-04 1.51e-04 -1.83e-03 -3.48e-03 2.65e-04 -2.57e-03
## 3 2.96e-03 1.57e-04 8.03e-04 -1.95e-03 -4.55e-03 2.94e-04 -3.33e-03
## 4 -3.88e-03 6.05e-04 -1.79e-03 4.82e-04 2.74e-03 6.59e-04 1.37e-03
## 5 -1.18e-04 -3.24e-05 -1.57e-04 -8.34e-05 -1.23e-03 -1.82e-05 -9.55e-06
## 6 2.93e-03 4.23e-04 -3.37e-04 -4.20e-03 -8.08e-03 9.26e-04 -6.46e-03
## 7 3.62e-03 -4.93e-04 1.60e-03 -6.30e-04 -2.58e-03 -5.62e-04 -1.26e-03
## 8 -1.32e-04 2.37e-05 -1.61e-04 -1.39e-04 -1.24e-03 5.24e-05 -1.85e-04
## 9 1.21e-02 -1.38e-03 4.87e-03 -3.16e-03 -1.00e-02 -1.50e-03 -5.47e-03
## 10 -7.63e-04 -1.00e-04 6.71e-05 6.23e-04 8.97e-04 -3.12e-05 4.18e-04
## 11 -2.42e-03 2.69e-04 -9.48e-04 6.88e-04 2.15e-03 2.76e-04 1.23e-03
## 12 -2.28e-04 1.37e-05 -5.79e-05 1.35e-04 3.50e-04 -1.87e-06 2.53e-04
## 13 -1.05e-02 -5.76e-03 -2.19e-02 1.57e-03 6.48e-04 -2.29e-03 1.44e-03
## 14 3.93e-04 3.24e-05 1.53e-05 -4.29e-04 -8.16e-04 7.13e-05 -6.18e-04

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## 15  1.84e-03  1.20e-04  1.51e-04 -1.83e-03 -3.48e-03  2.65e-04 -2.57e-03
## 16  2.96e-03  1.57e-04  8.03e-04 -1.95e-03 -4.55e-03  2.94e-04 -3.33e-03
## 17 -3.88e-03  6.05e-04 -1.79e-03  4.82e-04  2.74e-03  6.59e-04  1.37e-03
## 18 -1.18e-04 -3.24e-05 -1.57e-04 -8.34e-05 -1.23e-03 -1.82e-05 -9.55e-06
## 19  2.93e-03  4.23e-04 -3.37e-04 -4.20e-03 -8.08e-03  9.26e-04 -6.46e-03
## 20  3.62e-03 -4.93e-04  1.60e-03 -6.30e-04 -2.58e-03 -5.62e-04 -1.26e-03
## 21 -1.32e-04  2.37e-05 -1.61e-04 -1.39e-04 -1.24e-03  5.24e-05 -1.85e-04
## 22  1.21e-02 -1.38e-03  4.87e-03 -3.16e-03 -1.00e-02 -1.50e-03 -5.47e-03
## 23 -7.63e-04 -1.00e-04  6.71e-05  6.23e-04  8.97e-04 -3.12e-05  4.18e-04
## 24 -2.42e-03  2.69e-04 -9.48e-04  6.88e-04  2.15e-03  2.76e-04  1.23e-03
## 25 -2.28e-04  1.37e-05 -5.79e-05  1.35e-04  3.50e-04 -1.87e-06  2.53e-04
## 26 -1.05e-02 -5.76e-03 -2.19e-02  1.57e-03  6.48e-04 -2.29e-03  1.44e-03
## 27 -9.77e-03 -3.80e-03  4.06e-03  1.14e-04 -7.74e-04 -1.92e-03  2.94e-04
## 28 -1.87e-02 -8.18e-03  1.09e-02  3.08e-03  2.13e-03 -4.85e-03  4.26e-03
## 29 -2.13e-03 -4.76e-05 -1.90e-03 -8.33e-04 -9.33e-03  3.11e-04 -1.31e-03
## 30 -1.55e-02 -8.36e-03 -3.74e-02 -1.22e-03 -5.00e-03 -2.30e-03 -2.50e-03
## 31  2.72e-03  1.32e-03  6.40e-03  4.32e-04  1.21e-03  2.61e-04  8.15e-04
## 32  2.79e-02  1.71e-02  6.52e-02 -5.11e-03 -1.69e-03  7.04e-03 -5.31e-03
## 33  5.87e-03  2.00e-03  1.24e-02  1.82e-03  4.04e-03 -1.91e-04  3.53e-03
## 34 -2.49e-02 -1.03e-02  1.15e-02  2.97e-03  1.91e-03 -5.86e-03  4.20e-03
## 35  1.02e-03 -1.86e-04  5.35e-04  2.14e-05 -4.29e-04 -2.31e-04 -9.01e-05
## 36 -9.23e-03 -4.59e-03 -2.20e-02 -1.41e-03 -4.02e-03 -9.73e-04 -2.59e-03
## 37  3.53e-03  1.24e-03  6.10e-03 -6.37e-04 -4.80e-03  3.63e-04 -9.99e-04
## 38  5.28e-02  1.45e-02  8.57e-02 -3.37e-03 -5.37e-02  1.30e-03 -2.28e-03
## 39 -1.60e-02 -9.98e-06  3.93e-02  2.15e-03  7.44e-03 -8.90e-04  5.34e-03
## 40  1.78e-02 -3.75e-04  7.22e-03 -6.27e-03 -1.89e-02 -2.89e-04 -1.25e-02
## 41  2.20e-02 -4.53e-03  1.25e-02  2.58e-03 -6.14e-03 -5.78e-03  8.80e-04
## 42  9.25e-03  3.50e-03  1.97e-02  2.80e-03  5.70e-03  8.33e-05  4.78e-03
## 43 -4.32e-05  3.06e-04 -6.45e-04 -1.84e-02 -1.74e-03  4.59e-04 -1.54e-03
## 44 -6.56e-03 -2.14e-03 -1.08e-02  1.19e-03  8.34e-03 -5.55e-04  1.56e-03
## 45  2.74e-03  8.16e-04  4.09e-03 -2.69e-04 -5.87e-04  1.92e-04 -5.61e-03
## 46  2.55e-03  3.30e-05  8.80e-04 -1.23e-03 -2.88e-03  3.95e-05 -1.89e-03
## 47  1.27e-02 -2.22e-04  5.09e-03 -4.58e-03 -1.26e-02 -3.09e-04 -7.93e-03
## 48  2.55e-04  1.05e-05  2.65e-04  1.50e-04  1.48e-03 -3.41e-05  1.73e-04
## 49  2.30e-04 -4.10e-05  2.84e-04  2.48e-04  2.25e-03 -9.07e-05  3.22e-04
## 50  6.49e-04 -1.80e-05  5.85e-04  2.41e-04  5.09e-03 -1.09e-04  3.67e-04
## 51  8.14e-04  3.58e-04  4.09e-04 -6.30e-04  4.06e-03  3.66e-04 -1.05e-03
## 52  2.80e-05 -4.04e-05  6.01e-04  1.73e-05  1.17e-04 -8.30e-05  1.02e-02
## 53 -4.86e-04  1.00e-04 -2.75e-04 -5.44e-05  1.45e-04  1.26e-04 -9.74e-06
## 54  2.38e-03  2.68e-04 -4.79e-05 -2.91e-03 -5.44e-03  5.50e-04 -4.19e-03
## 55  4.72e-03  1.95e-03 -2.53e-03 -3.85e-04  4.06e-05  1.06e-03 -5.39e-04
## 56  1.01e-02  4.22e-03 -4.71e-03 -1.23e-03 -8.31e-04  2.41e-03 -1.78e-03
## 57  4.82e-03  1.99e-03 -2.56e-03 -5.30e-04 -1.40e-04  1.10e-03 -6.68e-04
## 58  1.53e-02  6.17e-03 -6.73e-03 -1.68e-03 -9.06e-04  3.42e-03 -2.22e-03
## 59  4.76e-03  1.84e-03 -2.29e-03 -1.31e-04  4.45e-04  9.15e-04 -1.10e-04
## 60  1.17e-02  4.16e-03 -4.96e-03  6.62e-04  2.57e-03  1.78e-03  1.17e-03
## 61 -2.14e-04  5.94e-06 -1.93e-04 -7.97e-05 -1.68e-03  3.59e-05 -1.21e-04
## 62  5.98e-03  2.86e-03 -4.70e-04 -1.02e-02  2.55e-03  3.33e-03 -1.18e-02
## 63 -3.09e-03 -1.06e-03  1.23e-03 -2.05e-04 -7.38e-04 -4.28e-04 -3.97e-04
## 64  8.25e-04  2.81e-04 -2.65e-04  6.84e-05  1.90e-04  1.13e-04  1.09e-04
## 65 -5.27e-03 -8.53e-04 -4.00e-04  5.79e-03  1.09e-02 -1.29e-03  8.30e-03
## 66  6.18e-03  1.72e-03 -1.80e-03 -1.02e-03 -5.79e-03  8.76e-04 -1.57e-03
## 67  6.66e-03  2.28e-03 -2.62e-03  4.49e-04  1.60e-03  9.13e-04  8.75e-04
## 68 -7.06e-04 -1.81e-04  1.78e-04  2.65e-05  5.48e-04 -7.29e-05  7.38e-05

```

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## 69 | 1.15e-03 | 7.71e-05 | 4.60e-05 | -1.24e-03 | -2.50e-03 | 2.12e-04 | -1.93e-03 |
| ## 70 | -1.49e-03 | 1.03e-03 | -1.24e-03 | -1.94e-03 | 4.14e-03 | 1.65e-03 | -4.79e-03 |
| ## 71 | 4.30e-04 | 1.11e-04 | -4.49e-05 | -6.72e-04 | -1.48e-03 | 2.18e-04 | -1.26e-03 |
| ## 72 | -3.37e-03 | 2.39e-04 | -1.67e-03 | 4.85e-04 | 2.45e-03 | 3.26e-04 | 1.33e-03 |
| ## 73 | -4.02e-03 | 7.31e-04 | -2.07e-03 | 9.95e-06 | 2.00e-03 | 8.69e-04 | 6.50e-04 |
| ## 74 | -8.26e-03 | -7.81e-04 | -1.64e-03 | 6.73e-03 | 1.30e-02 | -1.09e-03 | 9.38e-03 |
| ## 75 | 3.60e-04 | 2.99e-04 | 1.51e-03 | -3.26e-04 | -7.30e-04 | 2.29e-04 | 2.11e-02 |
| ## 76 | 1.05e-03 | 4.71e-04 | -2.43e-03 | -9.56e-02 | -5.34e-03 | 8.02e-04 | -3.81e-03 |
| ## 77 | -2.44e-04 | 3.13e-04 | 5.68e-04 | -1.53e-03 | -2.12e-03 | 4.60e-04 | 2.18e-02 |
| ## 78 | 5.85e-03 | -4.66e-04 | 3.00e-03 | -5.98e-04 | -3.56e-03 | -7.00e-04 | -1.63e-03 |
| ## 79 | 4.84e-04 | -4.42e-05 | 2.58e-04 | -2.93e-05 | -2.98e-04 | -6.10e-05 | -1.43e-04 |
| ## 80 | -2.23e-02 | -3.66e-03 | 8.18e-02 | 6.27e-03 | -2.90e-02 | -5.38e-03 | 8.77e-03 |
| ## 81 | 1.05e-03 | 1.16e-04 | 6.57e-04 | -2.39e-04 | 6.95e-03 | 4.35e-05 | -1.97e-04 |
| ## 82 | -2.96e-04 | -4.87e-05 | -3.52e-04 | -1.93e-04 | -2.45e-03 | -5.27e-06 | -1.08e-04 |
| ## 83 | -3.34e-04 | 4.36e-04 | 2.79e-04 | -2.00e-03 | -2.84e-03 | 6.60e-04 | 2.05e-02 |
| ## 84 | 2.30e-03 | -4.03e-04 | 3.04e-03 | 2.72e-03 | 2.60e-02 | -8.96e-04 | 3.27e-03 |
| ## 85 | -4.02e-03 | 8.47e-05 | -1.63e-03 | 1.42e-03 | 4.28e-03 | 6.51e-05 | 2.81e-03 |
| ## 86 | -4.33e-03 | 5.22e-04 | -2.54e-03 | -2.90e-04 | 1.55e-03 | 7.89e-04 | 2.29e-04 |
| ## 87 | -7.80e-04 | -3.15e-04 | 3.45e-04 | 4.13e-05 | -1.29e-05 | -1.69e-04 | 7.09e-05 |
| ## 88 | 4.51e-03 | 1.77e-03 | -1.90e-03 | -6.29e-05 | 3.37e-04 | 9.01e-04 | -1.65e-04 |
| ## 89 | -3.28e-02 | -1.35e-02 | 1.50e-02 | 2.92e-03 | 1.17e-03 | -7.51e-03 | 4.50e-03 |
| ## 90 | -2.48e-01 | -1.49e-01 | -5.86e-01 | 3.01e-02 | -7.10e-03 | -5.72e-02 | 2.79e-02 |
| ## 91 | 3.54e-03 | -9.33e-05 | 1.47e-03 | -1.16e-03 | -3.55e-03 | -1.01e-04 | -2.27e-03 |
| ## 92 | 2.36e-03 | 1.14e-04 | 6.60e-04 | -1.53e-03 | -3.77e-03 | 2.48e-04 | -2.81e-03 |
| ## 93 | 3.07e-05 | 7.64e-06 | -7.45e-06 | 3.95e-07 | -2.21e-05 | 2.77e-06 | -1.55e-06 |
| ## 94 | 1.86e-02 | 6.61e-03 | -7.91e-03 | 1.65e-03 | 4.90e-03 | 2.74e-03 | 2.45e-03 |
| ## 95 | 2.23e-03 | 8.16e-04 | 3.74e-03 | -5.82e-04 | -3.26e-03 | 2.88e-04 | -8.46e-04 |
| ## 96 | -2.90e-03 | 9.77e-05 | -3.17e-03 | -2.24e-03 | -1.61e-02 | 6.96e-04 | -2.92e-03 |
| ## 97 | -5.12e-02 | -2.56e-02 | -1.22e-01 | -7.80e-03 | -2.23e-02 | -5.45e-03 | -1.43e-02 |
| ## 98 | 2.15e-02 | 6.93e-03 | -8.09e-03 | -6.07e-03 | -2.49e-02 | 4.31e-03 | -9.44e-03 |
| ## 99 | 4.17e-03 | -2.53e-04 | 1.23e-03 | -2.10e-03 | -5.12e-03 | -1.38e-04 | -3.39e-03 |
| ## 100 | 1.39e-02 | 6.84e-03 | 3.28e-02 | 2.14e-03 | 6.08e-03 | 1.42e-03 | 3.98e-03 |
| ## 101 | 3.75e-02 | 1.60e-02 | 8.61e-02 | 1.27e-02 | 2.45e-02 | 1.34e-03 | 1.89e-02 |
| ## 102 | -1.32e-01 | -7.53e-02 | -2.82e-01 | 2.21e-02 | 1.22e-02 | -3.12e-02 | 2.34e-02 |
| ## 103 | 6.07e-02 | 4.53e-04 | -1.20e-01 | -3.43e-03 | -1.96e-02 | 1.58e-03 | -1.11e-02 |
| ## 104 | -1.04e-02 | -6.12e-03 | -2.38e-02 | 1.68e-03 | 2.54e-04 | -2.39e-03 | 1.46e-03 |
| ## 105 | 5.97e-04 | 2.04e-04 | -1.98e-04 | 1.41e-04 | 2.59e-04 | 7.04e-05 | 1.64e-04 |
| ## 106 | -4.03e-02 | -1.98e-02 | -9.78e-02 | -8.48e-03 | -2.09e-02 | -3.60e-03 | -1.41e-02 |
| ## 107 | -2.35e-04 | 1.02e-05 | -1.05e-04 | 6.48e-05 | 2.60e-04 | 5.90e-06 | 1.78e-04 |
| ## 108 | 4.83e-03 | 4.45e-04 | 9.70e-04 | -3.96e-03 | -8.45e-03 | 7.51e-04 | -6.34e-03 |
| ## 109 | -8.62e-04 | 1.36e-04 | -4.10e-04 | 8.08e-05 | 5.33e-04 | 1.58e-04 | 2.30e-04 |
| ## 110 | 1.07e-03 | -8.79e-05 | 5.53e-04 | -1.14e-04 | -8.15e-04 | -1.07e-04 | -4.67e-04 |
| ## 111 | 5.70e-03 | -1.17e-03 | 3.22e-03 | 6.37e-04 | -1.71e-03 | -1.48e-03 | 1.14e-04 |
| ## 112 | -3.36e-03 | 5.38e-04 | -1.64e-03 | 2.33e-04 | 1.84e-03 | 6.53e-04 | 6.70e-04 |
| ## 113 | 2.25e-03 | 5.58e-05 | 7.27e-04 | -1.20e-03 | -2.82e-03 | 9.08e-05 | -1.92e-03 |
| ## 114 | -1.05e-04 | 1.36e-04 | -3.49e-04 | -1.49e-02 | -7.23e-04 | 2.12e-04 | -6.59e-04 |
| ## 115 | -3.89e-04 | -1.48e-04 | 1.00e-03 | 5.12e-04 | 7.54e-04 | -2.04e-04 | 1.76e-02 |
| ## 116 | -2.20e-03 | 3.49e-04 | -1.05e-03 | 1.86e-04 | 1.30e-03 | 4.12e-04 | 5.32e-04 |
| ## 117 | 3.20e-03 | -1.63e-04 | 1.47e-03 | -7.22e-04 | -2.68e-03 | -2.18e-04 | -1.57e-03 |
| ## 118 | -9.94e-04 | -5.09e-05 | -1.04e-03 | -5.90e-04 | -5.97e-03 | 1.21e-04 | -6.50e-04 |
| ## 119 | -2.31e-02 | -2.65e-04 | 6.06e-02 | 3.85e-03 | 1.26e-02 | -1.89e-03 | 9.72e-03 |
| ## 120 | 3.22e-04 | 2.37e-05 | 3.47e-04 | 1.95e-04 | 2.08e-03 | -3.04e-05 | 1.93e-04 |
| ## 121 | 9.06e-04 | 3.89e-04 | 1.24e-04 | -1.30e-03 | 5.55e-03 | 4.74e-04 | -1.69e-03 |
| ## 122 | 5.69e-05 | 9.37e-06 | 6.78e-05 | 3.71e-05 | 4.71e-04 | 1.01e-06 | 2.08e-05 |

```

## 123 -4.21e-03 -2.58e-04 -3.86e-03 -1.59e-03 -2.09e-02 4.05e-04 -2.08e-03
## 124 3.65e-03 4.44e-04 -5.29e-05 -4.44e-03 -7.96e-03 8.15e-04 -6.05e-03
## 125 1.74e-03 -3.17e-04 9.07e-04 2.42e-05 -7.72e-04 -3.88e-04 -1.92e-04
## 126 -7.10e-04 -2.87e-04 -8.05e-04 -4.85e-02 6.15e-04 -2.20e-04 5.71e-04
## 127 -8.14e-04 3.58e-05 -7.21e-04 -3.10e-04 -5.85e-03 1.57e-04 -5.17e-04
## 128 4.60e-04 2.43e-05 1.25e-04 -3.04e-04 -7.06e-04 4.58e-05 -5.18e-04
## 129 1.97e-03 -1.24e-04 2.45e-03 2.07e-03 1.30e-02 -5.78e-04 2.48e-03
## 130 2.39e-03 -1.51e-04 2.97e-03 2.50e-03 1.58e-02 -7.00e-04 3.00e-03
## 131 2.51e-03 -3.28e-04 1.04e-03 -5.74e-04 -2.16e-03 -3.31e-04 -1.23e-03
## 132 -2.98e-03 -6.90e-04 -1.94e-03 7.73e-04 -1.28e-02 -4.68e-04 1.14e-03
## 133 -2.40e-05 -1.74e-06 -2.40e-04 -1.11e-04 -1.24e-04 2.20e-05 -2.77e-03
## 134 -1.50e-02 -6.20e-03 8.10e-03 2.63e-04 -1.44e-03 -3.24e-03 7.75e-04
## 135 -5.48e-03 -2.17e-03 2.35e-03 9.47e-05 -3.74e-04 -1.12e-03 2.51e-04
## 136 -4.25e-03 -1.66e-03 2.07e-03 2.58e-04 -1.99e-04 -8.52e-04 2.57e-04
## 137 -2.98e-03 3.28e-04 -1.15e-03 8.85e-04 2.74e-03 3.25e-04 1.61e-03
## 138 2.01e-03 1.03e-03 -7.94e-04 6.68e-02 -6.95e-03 1.34e-03 -5.58e-03
## 139 -1.74e-03 3.65e-05 -3.59e-04 1.23e-03 2.79e-03 -7.79e-05 2.02e-03
## 140 -2.72e-03 2.72e-04 -9.45e-04 1.03e-03 3.07e-03 2.01e-04 2.00e-03
## 141 -9.81e-03 -4.87e-04 -2.73e-03 6.27e-03 1.39e-02 -7.87e-04 9.87e-03
## 142 4.20e-03 6.15e-04 -2.58e-04 -5.55e-03 -9.83e-03 1.10e-03 -7.56e-03
## 143 -7.85e-03 1.53e-04 -3.15e-03 2.92e-03 9.66e-03 -6.82e-05 6.83e-03
## 144 2.46e-03 2.11e-04 1.42e-04 -2.58e-03 -4.69e-03 3.97e-04 -3.46e-03
## 145 1.96e-05 -2.71e-06 1.83e-05 1.19e-05 1.12e-04 -6.59e-06 2.14e-05
## 146 4.05e-03 -4.83e-04 1.71e-03 -8.85e-04 -2.92e-03 -5.76e-04 -1.42e-03
## 147 5.36e-03 -9.81e-04 2.84e-03 1.50e-04 -2.14e-03 -1.23e-03 -3.60e-04
## 148 -1.50e-03 1.43e-05 -5.77e-04 6.10e-04 1.80e-03 -1.62e-05 1.25e-03
## 149 -5.37e-03 2.24e-04 -2.38e-03 1.44e-03 5.12e-03 2.45e-04 3.23e-03
## 150 5.04e-03 9.04e-04 -6.32e-04 -7.40e-03 -1.30e-02 1.60e-03 -1.01e-02
## 151 1.26e-03 -1.24e-04 6.87e-04 -3.03e-05 -6.32e-04 -1.85e-04 -2.33e-04
## 152 5.44e-04 3.70e-04 -5.53e-05 -1.19e-03 4.44e-03 4.91e-04 -1.70e-03
## 153 2.88e-03 1.39e-04 3.11e-04 -2.69e-03 -5.23e-03 3.53e-04 -3.85e-03
## 154 -1.26e-03 -5.20e-04 -1.16e-03 1.27e-04 -1.04e-02 -4.74e-04 1.01e-03
## 155 -3.79e-03 -1.42e-05 -1.36e-03 1.77e-03 5.13e-03 -1.57e-04 3.71e-03
## 156 -1.39e-03 4.57e-05 -3.35e-04 8.67e-04 1.97e-03 -1.75e-05 1.37e-03
## 157 -4.45e-03 6.06e-04 -1.96e-03 7.74e-04 3.17e-03 6.91e-04 1.55e-03
## 158 -1.47e-03 1.18e-04 -1.65e-04 1.54e-03 4.07e-03 1.37e-04 2.00e-03
## 159 -3.47e-03 8.51e-04 -1.87e-03 -2.50e-04 2.70e-03 7.76e-04 1.60e-03
## 160 -3.92e-03 -2.04e-04 -1.06e-03 2.70e-03 7.52e-03 -6.02e-04 5.96e-03
## 161 3.24e-05 2.00e-05 -1.28e-04 -6.64e-05 -1.02e-04 2.98e-05 -2.09e-03
## 162 7.29e-03 -6.46e-04 2.57e-03 -2.73e-03 -7.39e-03 -5.94e-04 -4.51e-03
## 163 -2.54e-03 2.43e-05 -9.80e-04 9.84e-04 2.49e-03 5.22e-05 1.54e-03
## 164 5.03e-02 5.47e-03 -1.78e-01 -2.86e-03 8.15e-02 7.90e-03 -4.86e-03
## 165 2.94e-04 -2.61e-05 3.21e-04 2.14e-04 2.80e-03 -7.62e-05 2.72e-04
## 166 3.14e-03 -4.83e-04 1.40e-03 -4.84e-04 -2.49e-03 -4.93e-04 -1.37e-03
## 167 -5.08e-03 -6.59e-04 -6.67e-04 5.05e-03 1.12e-02 -1.24e-03 8.87e-03
## 168 -2.15e-02 -2.17e-03 7.87e-02 -1.86e-05 -3.77e-02 -3.21e-03 9.88e-04
## 169 -1.65e-03 2.20e-04 -7.04e-04 3.40e-04 1.32e-03 2.34e-04 7.11e-04
## 170 -2.59e-04 2.64e-04 -2.11e-03 -1.83e-03 -2.45e-03 5.74e-04 -1.97e-02
## 171 -2.95e-06 -9.33e-06 4.41e-05 3.19e-05 5.00e-05 -1.47e-05 5.94e-04
## 172 -2.44e-05 -3.48e-06 -1.88e-05 2.45e-06 -2.38e-04 -2.22e-06 6.77e-06
## 173 -1.61e-03 -2.00e-04 -1.54e-03 -5.72e-04 -9.52e-03 2.41e-05 -4.82e-04
## 174 -1.71e-04 2.19e-04 3.98e-04 -1.07e-03 -1.48e-03 3.22e-04 1.53e-02
## 175 7.18e-03 -1.48e-03 4.06e-03 8.03e-04 -2.15e-03 -1.87e-03 1.44e-04
## 176 7.09e-04 3.64e-04 3.98e-05 -1.20e-03 4.83e-03 4.61e-04 -1.62e-03

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## 177 -7.51e-03 -3.57e-04 -5.99e-04 3.59e-03 4.94e-03 6.26e-04 7.05e-04
## 178 1.72e-03 6.83e-04 3.01e-05 -2.63e-03 5.83e-03 8.14e-04 -3.03e-03
## 179 -5.82e-03 4.15e-04 -1.92e-03 2.50e-03 6.15e-03 3.69e-04 3.80e-03
## 180 4.86e-03 -6.62e-04 2.14e-03 -8.46e-04 -3.46e-03 -7.55e-04 -1.69e-03
## 181 6.80e-03 -7.80e-04 2.75e-03 -1.75e-03 -5.57e-03 -8.57e-04 -3.00e-03
## 182 -2.39e-03 4.35e-04 -1.24e-03 -2.58e-05 1.09e-03 5.30e-04 2.87e-04
## 183 4.52e-03 -8.11e-04 2.18e-03 -3.25e-04 -3.27e-03 -8.35e-04 -1.71e-03
## 184 5.65e-04 9.04e-05 2.89e-04 -2.64e-04 3.32e-03 6.52e-05 -2.62e-04
## 185 1.10e-03 5.21e-04 3.43e-04 -1.41e-03 1.11e-02 6.52e-04 -2.20e-03
## 186 -9.53e-04 1.73e-04 -4.92e-04 8.90e-07 4.70e-04 2.07e-04 1.50e-04
## 187 -2.99e-04 3.67e-05 -1.76e-04 -2.31e-05 9.59e-05 5.64e-05 5.10e-06
## 188 -5.73e-04 -3.15e-04 -2.43e-05 9.32e-04 -1.21e-03 -3.67e-04 1.22e-03
## 189 -4.28e-02 -1.58e-03 9.58e-02 6.41e-03 2.17e-02 -3.54e-03 1.59e-02
## 190 -1.24e-03 1.98e-04 -5.97e-04 1.03e-04 7.29e-04 2.34e-04 2.95e-04
## 191 1.05e-03 9.40e-04 -5.35e-04 -3.26e-03 6.90e-03 1.29e-03 -4.50e-03
## 192 2.66e-03 1.42e-04 -5.57e-03 -6.46e-04 -1.60e-03 2.58e-04 -1.15e-03
## 193 3.25e-03 2.94e-04 6.21e-05 -3.69e-03 -7.03e-03 6.46e-04 -5.37e-03
## 194 3.38e-05 8.17e-06 2.94e-05 1.94e-06 2.11e-04 5.10e-06 -7.35e-06
## 195 -8.49e-04 -1.36e-04 -2.27e-03 -3.31e-04 -3.33e-04 1.07e-04 -2.55e-02
## 196 -8.44e-04 -2.84e-05 -2.62e-03 -8.62e-04 -1.07e-03 2.83e-04 -2.79e-02
## 197 1.52e-05 -7.95e-05 -2.45e-04 1.09e-04 2.41e-04 -8.57e-05 -4.24e-03
## 198 -1.28e-04 6.40e-05 3.48e-05 -1.11e-04 -2.43e-04 9.48e-05 1.98e-03
## 199 3.32e-04 1.61e-04 8.86e-04 -1.06e-03 -1.27e-03 1.62e-04 1.94e-02
## 200 -1.92e-03 1.21e-04 -9.24e-04 3.52e-04 1.61e-03 1.45e-04 9.65e-04
## 201 -4.16e-04 -2.14e-04 1.08e-03 8.04e-04 1.17e-03 -3.00e-04 1.74e-02
## 202 -1.04e-02 -2.58e-04 -3.37e-03 5.56e-03 1.30e-02 -4.20e-04 8.90e-03
## 203 -4.36e-02 -1.72e-03 9.37e-02 7.58e-03 2.27e-02 -3.53e-03 1.62e-02
## 204 -5.80e-04 1.06e-04 -6.53e-04 -5.47e-04 -4.56e-03 2.34e-04 -8.00e-04
## 205 6.72e-02 1.08e-03 -1.41e-01 -5.26e-03 -2.54e-02 3.02e-03 -1.64e-02
## 206 1.41e-02 5.43e-03 -6.89e-03 9.51e-04 3.13e-03 2.52e-03 9.51e-04
## 207 7.20e-03 2.61e-03 -2.62e-03 2.77e-04 1.15e-03 1.18e-03 4.13e-04
## 208 -2.11e-02 -8.96e-03 1.01e-02 2.72e-03 1.99e-03 -5.19e-03 4.06e-03
## 209 -1.97e-03 -7.00e-04 6.94e-04 -1.41e-04 -4.08e-04 -3.02e-04 -1.92e-04
## 210 2.18e-03 8.08e-04 -8.27e-04 7.09e-05 3.23e-04 3.77e-04 8.72e-05
## 211 6.44e-04 -3.28e-05 2.96e-04 -1.45e-04 -5.39e-04 -4.39e-05 -3.16e-04
## 212 -5.23e-03 -2.26e-03 3.00e-03 6.79e-04 3.40e-04 -1.31e-03 9.83e-04
## 213 8.02e-03 -6.26e-04 4.09e-03 -8.83e-04 -5.06e-03 -9.25e-04 -2.41e-03
## 214 -3.73e-02 -1.57e-02 1.75e-02 5.68e-03 4.61e-03 -9.14e-03 7.76e-03
## 215 -7.89e-04 -7.39e-06 -1.20e-03 -1.07e-03 -7.56e-03 1.74e-04 -9.79e-04
## 216 6.23e-03 2.28e-03 -2.76e-03 1.18e-04 1.03e-03 1.04e-03 3.11e-04
## 217 2.38e-03 -1.86e-04 1.21e-03 -2.62e-04 -1.50e-03 -2.75e-04 -7.15e-04
## 218 1.27e-02 4.47e-03 -5.34e-03 1.56e-03 3.96e-03 1.77e-03 2.16e-03
## 219 2.89e-02 1.33e-03 -5.80e-02 -6.41e-03 -1.60e-02 2.35e-03 -1.11e-02
## 220 4.47e-03 1.57e-03 -1.53e-03 4.70e-04 1.14e-03 6.44e-04 6.13e-04
## 221 8.08e-03 3.11e-03 -3.86e-03 -4.55e-04 4.44e-04 1.58e-03 -3.98e-04
## 222 -2.65e-04 2.26e-04 2.97e-04 -1.06e-03 -1.50e-03 3.48e-04 1.42e-02
## 223 4.59e-05 -5.61e-05 4.14e-05 1.82e-04 -1.09e-03 -2.61e-05 8.63e-05
## 224 -2.62e-04 2.01e-06 -2.41e-04 -9.44e-05 -2.26e-03 3.59e-05 -1.26e-04
## 225 6.42e-04 2.36e-04 1.75e-04 -7.37e-04 4.44e-03 2.76e-04 -9.78e-04
## 226 -2.46e-03 -7.34e-04 4.35e-04 4.21e-03 8.55e-03 -1.32e-03 7.18e-03
## 227 -6.61e-03 -4.62e-04 -1.59e-03 4.87e-03 1.13e-02 -8.93e-04 8.52e-03
## 228 2.28e-02 -1.92e-03 1.19e-02 -1.82e-03 -1.24e-02 -3.01e-03 -4.93e-03
## 229 6.33e-03 -1.02e-03 3.11e-03 -3.77e-04 -3.28e-03 -1.26e-03 -1.09e-03
## 230 -1.89e-03 -2.74e-04 -1.59e-03 -2.76e-04 -9.64e-03 -4.53e-05 -2.12e-04

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## 231  1.67e-03 -1.54e-04  5.31e-04 -7.46e-04 -2.17e-03 -7.68e-05 -1.50e-03
## 232  1.28e-03  9.00e-05  6.55e-05 -1.35e-03 -2.64e-03  2.20e-04 -2.00e-03
## 233  1.54e-03  3.30e-04  6.16e-04 -1.10e-03  8.20e-03  3.04e-04 -1.17e-03
## 234  1.56e-04  1.51e-04  1.33e-04 -2.29e-04  4.82e-03  2.10e-04 -6.34e-04
## 235  3.49e-03  2.43e-03  2.63e-03 -2.61e-03  3.32e-02  2.70e-03 -7.01e-03
## 236 -4.18e-03 -2.19e-04 -1.13e-03  2.83e-03  7.36e-03 -5.50e-04  5.68e-03
## 237 -5.12e-04  2.62e-04  1.24e-03  8.94e-02  7.59e-04  2.43e-04 -5.50e-05
## 238  2.22e-02  6.49e-03 -6.74e-03  5.55e-03  1.13e-02  1.46e-03  8.35e-03
## 239 -2.11e-03 -7.22e-04 -1.58e-03  5.65e-04 -1.30e-02 -6.26e-04  1.48e-03
## 240 -2.03e-03 -4.15e-04 -1.75e-03 -1.88e-04 -1.18e-02 -2.06e-04  1.81e-04
## 241  2.21e-02  7.03e-03 -7.58e-03  1.25e-03  5.21e-03  2.57e-03  3.41e-03
## 242  2.15e-02  5.37e-03 -6.48e-03 -1.11e-03 -1.72e-02  2.09e-03 -2.24e-03
## 243 -1.89e-03  9.61e-05 -5.00e-04  1.08e-03  2.62e-03  9.47e-06  1.82e-03
## 244 -2.93e-05  7.59e-06 -3.89e-05 -3.91e-05 -2.74e-04  1.51e-05 -5.31e-05
## 245  1.25e-02 -8.47e-05  4.77e-03 -5.12e-03 -1.39e-02 -5.38e-06 -9.22e-03
## 246 -4.18e-03 -2.19e-04 -1.13e-03  2.83e-03  7.36e-03 -5.50e-04  5.68e-03
## 247 -8.74e-03  8.87e-04 -4.82e-03  9.50e-05  4.04e-03  1.35e-03  1.27e-03
## 248 -3.26e-03 -6.15e-04 -2.43e-03  1.94e-04 -1.53e-02 -2.95e-04  4.41e-04
## 249 -1.38e-03  2.52e-04 -7.29e-04 -3.84e-05  5.51e-04  3.17e-04  9.26e-05
## 250  7.57e-04 -1.38e-04  3.89e-04 -3.05e-06 -3.81e-04 -1.63e-04 -1.26e-04
## 251 -7.35e-03  1.35e-03 -3.89e-03 -2.05e-04  2.94e-03  1.69e-03  4.94e-04
## 252 -9.94e-03 -3.80e-03  3.96e-03  6.13e-04 -1.60e-04 -1.95e-03  6.62e-04
## 253 -2.88e-04 -3.21e-04 -5.78e-04  8.58e-04  1.36e-03 -3.51e-04 -1.08e-02
## 254  6.93e-03 -1.43e-03  3.93e-03  8.04e-04 -1.97e-03 -1.81e-03  2.43e-04
## 255  1.73e-02  6.53e-03 -7.99e-03 -8.63e-04  1.15e-03  3.24e-03 -5.69e-04
## 256 -7.83e-03 -2.97e-03  3.64e-03  4.01e-04 -5.03e-04 -1.48e-03  2.83e-04
## 257  3.48e-04 -2.13e-05  1.04e-04 -1.74e-04 -4.25e-04 -1.20e-05 -2.81e-04
## 258 -1.24e-03 -5.64e-04 -3.36e-04  1.42e-03 -3.91e-03 -6.09e-04  1.93e-03
## 259 -2.73e-03  4.98e-04 -1.42e-03 -1.20e-05  1.30e-03  6.00e-04  3.84e-04
## 260  1.96e-03  1.50e-03 -1.02e-03 -5.65e-03  6.44e-03  2.01e-03 -7.22e-03
## 261  4.31e-03  1.61e-03 -1.96e-03 -1.99e-04  3.16e-04  7.89e-04 -1.01e-04
## 262  4.16e-03  1.05e-04  6.22e-04 -3.49e-03 -6.97e-03  3.64e-04 -5.03e-03
## 263  6.17e-03  2.43e-03 -3.06e-03 -3.96e-04  2.50e-04  1.26e-03 -4.28e-04
## 264  3.75e-03 -4.58e-04  4.95e-03  4.66e-03  2.50e-02 -1.42e-03  5.80e-03
## 265 -2.56e-04 -6.62e-05  2.54e-05  3.85e-04  6.96e-04 -1.03e-04  5.57e-04
## 266 -5.16e-03 -6.28e-04 -7.55e-04  4.91e-03  1.05e-02 -1.11e-03  8.14e-03
## 267 -6.12e-03  4.10e-04 -2.99e-03  9.95e-04  4.78e-03  5.30e-04  2.73e-03
## 268  6.75e-03 -6.35e-04  2.51e-03 -2.25e-03 -6.17e-03 -6.65e-04 -3.55e-03
## 269 -2.56e-03 -5.43e-04 -1.50e-03  8.52e-04 -9.14e-03 -3.50e-04  9.45e-04
## 270  2.50e-03  6.95e-04 -1.12e-03 -5.43e-03 -1.06e-02  1.52e-03 -8.91e-03
## 271  1.77e-04  3.99e-05  1.04e-04 -8.59e-05  1.54e-03  3.82e-05 -1.30e-04
## 272  1.96e-04  1.87e-04  7.84e-04 -1.13e-03 -1.41e-03  2.20e-04  1.92e-02
## 273  9.18e-04  7.05e-05 -3.97e-05 -1.16e-03 -2.50e-03  2.42e-04 -2.02e-03
## 274  1.94e-03 -2.29e-04  1.13e-03  1.08e-04 -7.66e-04 -3.39e-04 -1.75e-04
## 275  1.88e-03 -8.33e-04  2.97e-03  3.75e-03  1.71e-02 -1.50e-03  5.20e-03
## 276  7.81e-06  1.36e-06  4.74e-06 -2.90e-06  6.10e-05  1.08e-06 -3.84e-06
## 277 -4.05e-03  6.46e-04 -1.96e-03  3.08e-04  2.29e-03  7.74e-04  8.82e-04
## 278  4.16e-03  1.05e-04  6.22e-04 -3.49e-03 -6.97e-03  3.64e-04 -5.03e-03
## 279  8.34e-04  3.22e-04  4.44e-04 -7.04e-04  9.71e-03  3.83e-04 -1.25e-03
## 280 -1.06e-03  1.07e-05 -4.11e-04  4.09e-04  1.04e-03  2.29e-05  6.38e-04
## 281 -1.10e-03 -5.33e-05 -3.07e-04  7.15e-04  1.75e-03 -1.15e-04  1.31e-03
## 282 -4.91e-05 -7.98e-06 -3.65e-05  1.21e-06 -2.18e-04 -2.74e-06  1.99e-06
## 283  1.62e-03 -1.05e-04  5.02e-04 -7.64e-04 -1.87e-03 -7.42e-05 -1.21e-03
## 284 -2.35e-03  3.75e-04 -1.14e-03  1.79e-04  1.33e-03  4.50e-04  5.13e-04

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## 285 -2.74e-05 3.02e-06 -2.79e-05 -1.85e-05 -2.15e-04 8.00e-06 -2.73e-05
## 286 -3.91e-03 2.37e-04 -1.16e-03 1.96e-03 4.79e-03 1.29e-04 3.18e-03
## 287 1.64e-03 -7.45e-05 1.45e-03 6.25e-04 1.17e-02 -3.19e-04 1.05e-03
## 288 -2.28e-02 -3.25e-03 7.39e-02 7.75e-04 -3.37e-02 -4.08e-03 2.94e-03
## 289 -6.69e-04 -1.46e-04 -4.98e-04 6.65e-05 -3.32e-03 -8.70e-05 1.63e-04
## 290 -3.11e-02 -1.33e-02 1.73e-02 5.71e-03 4.21e-03 -7.85e-03 7.20e-03
## 291 -3.49e-03 6.40e-04 -1.86e-03 -1.25e-04 1.31e-03 8.17e-04 1.48e-04
## 292 1.58e-02 -1.66e-03 8.81e-03 1.21e-04 -6.38e-03 -2.61e-03 -1.41e-03
## 293 4.03e-03 -2.04e-04 1.86e-03 -8.74e-04 -2.90e-03 -3.42e-04 -1.49e-03
## 294 -5.72e-03 1.04e-03 -2.95e-03 5.35e-06 2.82e-03 1.24e-03 8.98e-04
## 295 4.64e-03 1.72e-03 -1.77e-03 1.46e-04 6.76e-04 8.07e-04 1.72e-04
## 296 -3.49e-03 1.72e-04 -1.01e-03 1.81e-03 4.14e-03 1.07e-04 2.68e-03
## 297 4.47e-03 -9.20e-04 2.53e-03 4.95e-04 -1.36e-03 -1.16e-03 7.15e-05
## 298 -3.58e-03 3.58e-04 -1.25e-03 1.36e-03 4.05e-03 2.65e-04 2.64e-03
## 299 -6.94e-04 -2.85e-04 3.16e-04 6.10e-05 2.31e-05 -1.58e-04 9.30e-05
## 300 1.33e-02 5.61e-03 -7.34e-03 -1.60e-03 -6.40e-04 3.18e-03 -2.19e-03
## 301 2.91e-03 7.32e-05 4.36e-04 -2.44e-03 -4.88e-03 2.55e-04 -3.52e-03
## 302 9.55e-03 3.65e-03 -4.53e-03 -2.33e-04 9.48e-04 1.80e-03 -1.42e-04
## 303 3.29e-03 -3.75e-04 1.33e-03 -8.59e-04 -2.73e-03 -4.08e-04 -1.49e-03
## 304 5.28e-04 -4.79e-05 1.90e-04 -1.90e-04 -5.15e-04 -4.65e-05 -3.08e-04
## 305 9.26e-03 3.24e-03 -3.80e-03 5.71e-04 2.13e-03 1.35e-03 1.06e-03
## 306 1.91e-03 -2.97e-04 8.72e-04 -2.53e-04 -1.40e-03 -3.17e-04 -7.17e-04
## 307 -9.98e-04 -8.22e-05 -2.13e-04 8.27e-04 2.27e-03 -2.24e-04 1.86e-03
## 308 9.56e-05 3.47e-05 -3.51e-05 6.38e-06 1.88e-05 1.54e-05 7.87e-06
## 309 3.07e-03 -3.62e-04 1.28e-03 -7.01e-04 -2.29e-03 -4.23e-04 -1.15e-03
## 310 -2.20e-03 4.53e-04 -1.24e-03 -2.34e-04 7.01e-04 5.66e-04 -2.54e-06
## 311 1.33e-03 3.70e-04 2.57e-04 -1.45e-03 4.57e-03 3.89e-04 -1.52e-03
## 312 -1.13e-02 -4.11e-04 -3.44e-03 6.57e-03 1.46e-02 -5.98e-04 1.00e-02
## 313 1.10e-03 2.51e-05 1.71e-04 -9.05e-04 -1.81e-03 9.02e-05 -1.30e-03
## 314 -5.21e-04 1.32e-04 -6.61e-04 -6.51e-04 -4.45e-03 2.65e-04 -9.17e-04
## 315 -3.10e-03 -1.76e-04 -8.22e-04 2.08e-03 4.62e-03 -2.95e-04 3.33e-03
## 316 2.17e-03 1.29e-03 -6.41e-04 -4.96e-03 6.25e-03 1.67e-03 -6.07e-03
## 317 3.90e-03 -3.97e-04 2.16e-03 -3.74e-05 -1.79e-03 -6.07e-04 -5.53e-04
## 318 6.11e-03 2.52e-03 -3.25e-03 -4.87e-04 7.37e-05 1.36e-03 -6.68e-04
## 319 -2.99e-02 -1.09e-02 -6.17e-02 -6.33e-03 -1.63e-02 -1.20e-04 -1.41e-02
## 320 8.02e-03 -6.26e-04 4.09e-03 -8.83e-04 -5.06e-03 -9.25e-04 -2.41e-03
## 321 1.03e-03 8.49e-05 -2.27e-03 -3.64e-04 -8.00e-04 1.49e-04 -6.17e-04
## 322 -8.11e-02 -2.63e-02 2.85e-02 -2.04e-03 -1.55e-02 -1.02e-02 -9.52e-03
## 323 -2.20e-04 -2.30e-04 -5.65e-04 5.40e-04 8.89e-04 -2.36e-04 -9.45e-03
## 324 -1.99e-02 -1.75e-03 6.02e-02 9.18e-03 2.05e-02 -4.27e-03 1.76e-02
## 325 -3.08e-02 -8.06e-03 7.13e-03 -5.49e-03 -1.31e-02 -1.43e-03 -1.09e-02
## 326 1.22e-04 -1.46e-05 7.14e-05 7.49e-06 -4.60e-05 -2.18e-05 -8.73e-06
## 327 2.34e-03 8.47e-04 -1.01e-03 -8.45e-05 2.15e-04 3.99e-04 5.98e-06
## 328 1.01e-03 -1.03e-04 5.58e-04 -1.10e-05 -4.68e-04 -1.57e-04 -1.47e-04
## 329 1.58e-03 -5.88e-04 2.27e-03 2.66e-03 1.34e-02 -1.09e-03 3.76e-03
## 330 -6.83e-04 -1.65e-04 -5.94e-04 -3.92e-05 -4.27e-03 -1.03e-04 1.49e-04
## 331 -7.08e-05 -6.74e-05 -2.32e-04 1.26e-04 2.24e-04 -6.25e-05 -3.53e-03
## 332 -1.50e-02 -3.44e-03 3.75e-03 7.20e-04 1.09e-02 -1.13e-03 8.23e-04
## 333 4.33e-04 2.47e-04 8.09e-04 -5.80e-04 -9.14e-04 2.16e-04 1.17e-02
## 334 -3.21e-04 2.75e-04 3.61e-04 -1.28e-03 -1.82e-03 4.21e-04 1.73e-02
## 335 -5.57e-04 -3.70e-04 3.54e-05 1.08e-03 -1.27e-03 -4.48e-04 1.47e-03
## 336 3.92e-03 -3.98e-04 2.16e-03 -4.26e-05 -1.81e-03 -6.07e-04 -5.71e-04
## 337 1.50e-04 -2.76e-05 1.67e-04 1.38e-04 1.14e-03 -6.07e-05 2.07e-04
## 338 6.38e-03 9.39e-04 -3.33e-04 -8.32e-03 -1.45e-02 1.62e-03 -1.11e-02

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## 339 -1.09e-03 2.80e-05 -1.20e-03 -8.57e-04 -6.28e-03 2.51e-04 -1.08e-03
## 340 -2.48e-03 -2.08e-04 -2.04e-03 -5.05e-04 -1.09e-02 1.42e-04 -8.05e-04
## 341 -8.99e-04 1.09e-03 -2.57e-03 -6.46e-02 -6.05e-03 1.73e-03 -5.64e-03
## 342 -1.35e-03 1.83e-04 -5.94e-04 2.34e-04 9.59e-04 2.09e-04 4.69e-04
## 343 -1.86e-03 2.31e-04 -1.11e-03 -1.57e-04 5.53e-04 3.60e-04 -1.28e-05
## 344 6.30e-04 -4.46e-05 3.12e-04 -9.07e-05 -4.59e-04 -6.09e-05 -2.48e-04
## 345 -3.32e-04 4.27e-04 1.05e-04 -1.10e-03 -1.91e-03 5.95e-04 9.50e-03
## 346 9.73e-03 -1.00e-03 5.40e-03 -4.40e-05 -4.31e-03 -1.54e-03 -1.23e-03
## 347 3.44e-03 -1.14e-04 7.18e-04 -2.39e-03 -5.75e-03 1.57e-04 -4.24e-03
## 348 -2.41e-03 3.12e-05 -2.73e-03 -1.95e-03 -1.47e-02 5.20e-04 -2.34e-03
## 349 2.66e-02 9.17e-03 -1.08e-02 3.38e-03 8.51e-03 3.51e-03 4.88e-03
## 350 -3.82e-03 -1.50e-03 1.59e-03 2.69e-04 6.33e-07 -7.90e-04 3.39e-04
## 351 1.73e-02 5.93e-03 -6.91e-03 1.67e-03 4.83e-03 2.32e-03 2.71e-03
## 352 1.12e-02 3.15e-03 -2.24e-03 3.77e-03 4.46e-03 1.18e-03 1.61e-03
## 353 3.55e-03 9.45e-04 -6.13e-04 1.47e-03 1.80e-03 2.87e-04 8.39e-04
## 354 1.05e-02 3.90e-03 -3.99e-03 3.42e-04 1.56e-03 1.82e-03 4.21e-04
## 355 1.26e-03 9.80e-04 -2.45e-04 -3.13e-03 1.13e-02 1.32e-03 -4.56e-03
## 356 -4.51e-03 4.28e-05 -1.73e-03 1.83e-03 5.42e-03 -4.86e-05 3.75e-03
## 357 -4.21e-04 -2.76e-05 -1.04e-04 3.10e-04 8.03e-04 -6.78e-05 6.30e-04
## 358 -4.93e-02 1.46e-03 1.14e-01 7.63e-04 1.35e-02 -2.13e-04 7.57e-03
## 359 -2.18e-03 6.61e-05 -5.66e-04 1.29e-03 2.78e-03 1.21e-05 1.84e-03
## 360 7.74e-04 3.32e-04 1.06e-04 -1.11e-03 4.74e-03 4.04e-04 -1.44e-03
## 361 -4.39e-04 -1.51e-05 -4.51e-04 -2.57e-04 -2.49e-03 6.25e-05 -3.06e-04
## 362 5.27e-04 3.65e-04 -3.71e-04 -9.55e-04 1.67e-03 2.47e-04 -3.83e-04
## 363 -5.09e-03 -3.91e-04 -1.16e-03 3.83e-03 8.16e-03 -6.33e-04 5.98e-03
## 364 -3.62e-03 -3.63e-04 -3.42e-03 -1.32e-03 -2.01e-02 1.67e-04 -1.36e-03
## 365 -3.62e-03 5.68e-04 -1.69e-03 4.08e-04 2.44e-03 6.35e-04 1.16e-03
## 366 -4.07e-03 -2.14e-05 -1.46e-03 1.88e-03 5.06e-03 -1.07e-04 3.51e-03
## 367 -1.05e-03 4.24e-05 -2.77e-04 6.04e-04 1.38e-03 7.71e-06 9.30e-04
## 368 1.31e-03 4.97e-05 3.90e-04 -7.76e-04 -1.81e-03 8.91e-05 -1.28e-03
## 369 -3.29e-03 5.97e-04 -1.68e-03 2.88e-05 1.70e-03 7.02e-04 5.96e-04
## 370 -3.28e-02 -1.02e-03 7.52e-02 3.80e-03 1.56e-02 -2.55e-03 1.15e-02
## 371 3.68e-03 6.20e-04 2.13e-04 -4.33e-03 -9.96e-03 1.26e-03 -8.23e-03
## 372 2.54e-04 1.02e-05 2.80e-05 -2.35e-04 -4.72e-04 3.11e-05 -3.50e-04
## 373 1.67e-03 9.84e-04 5.36e-04 -5.11e-03 -6.61e-03 1.21e-03 2.75e-02
## 374 -8.64e-05 -5.78e-05 -4.69e-04 -2.43e-05 4.22e-05 -2.63e-05 -6.12e-03
## 375 4.28e-04 4.60e-05 1.16e-03 -6.35e-04 -6.08e-04 -2.43e-05 2.07e-02
## 376 -2.56e-03 -1.03e-04 -7.53e-04 1.57e-03 3.86e-03 -2.23e-04 2.84e-03
## 377 -1.44e-03 -3.49e-04 -1.08e-03 1.90e-04 -7.51e-03 -2.34e-04 4.78e-04
## 378 -8.38e-04 1.33e-04 -3.98e-04 7.85e-05 5.18e-04 1.54e-04 2.24e-04
## 379 1.83e-03 -3.31e-06 3.69e-04 -1.31e-03 -2.72e-03 7.92e-05 -1.90e-03
## 380 1.90e-03 -3.91e-04 1.08e-03 2.23e-04 -5.29e-04 -4.98e-04 7.59e-05
## 381 2.05e-04 1.19e-06 3.71e-05 -1.57e-04 -3.24e-04 1.26e-05 -2.31e-04
## 382 -6.90e-04 2.59e-04 7.30e-04 -3.06e-05 -5.63e-04 3.46e-04 1.57e-02
## 383 -3.19e-02 1.52e-03 1.07e-01 -1.93e-02 -8.33e-02 2.44e-03 -2.39e-02
## 384 1.59e-03 -1.51e-04 8.59e-04 -7.23e-05 -9.07e-04 -2.15e-04 -3.98e-04
## 385 7.46e-04 4.95e-05 5.70e-04 1.96e-05 5.84e-03 -1.90e-05 5.52e-05
## 386 1.90e-03 -3.91e-04 1.08e-03 2.23e-04 -5.29e-04 -4.98e-04 7.59e-05
## 387 -1.64e-03 9.58e-05 -7.75e-04 3.33e-04 1.47e-03 1.06e-04 9.15e-04
## 388 -6.15e-03 8.18e-04 -2.62e-03 1.26e-03 4.90e-03 8.71e-04 2.65e-03
## 389 1.05e-03 3.37e-04 1.96e-04 -1.23e-03 4.57e-03 3.76e-04 -1.41e-03
## 390 1.66e-03 -6.57e-04 2.54e-03 3.06e-03 1.57e-02 -1.20e-03 4.20e-03
## 391 -7.50e-04 1.37e-04 -8.45e-04 -7.07e-04 -5.90e-03 3.02e-04 -1.03e-03
## 392 2.51e-03 2.82e-03 -2.81e-03 -1.08e-02 4.90e-03 3.94e-03 -1.40e-02

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## 393  1.41e-03  1.30e-04  2.14e-05 -1.62e-03 -3.08e-03  2.86e-04 -2.36e-03
## 394  9.11e-03 -4.23e-04  4.12e-03 -2.24e-03 -8.14e-03 -5.21e-04 -4.96e-03
## 395 -1.31e-03  2.15e-03 -2.96e-03 -6.57e-03  1.08e-02  3.42e-03 -1.13e-02
## 396 -1.74e-03 -9.31e-05 -4.74e-04  1.13e-03  2.41e-03 -1.35e-04  1.68e-03
## 397  4.87e-05 -1.25e-05  6.31e-05  6.28e-05  4.34e-04 -2.49e-05  8.68e-05
## 398  1.08e-02  2.04e-04  3.59e-03 -5.67e-03 -1.50e-02  6.13e-04 -1.09e-02
## 399 -2.87e-03  5.15e-05 -1.15e-03  1.03e-03  2.83e-03  7.29e-05  1.77e-03
## 400 -1.33e-03 -5.81e-06  2.75e-03  4.07e-05  4.08e-04 -3.59e-05  2.40e-04
## 401 -1.89e-03  3.25e-05 -7.46e-04  7.53e-04  2.75e-03 -8.05e-05  2.08e-03
## 402 -1.21e-03  3.69e-04 -6.85e-05 -1.38e-03 -2.24e-03  6.76e-04  1.80e-02
## 403  8.35e-04  2.21e-04  2.45e-04 -7.81e-04  3.99e-03  2.28e-04 -8.65e-04
## 404  3.32e-04  2.17e-04  8.69e-04 -3.99e-04 -6.93e-04  1.81e-04  1.24e-02
## 405  5.72e-04  3.14e-04  7.06e-04 -1.78e-03 -2.24e-03  3.62e-04  1.88e-02
## 406 -2.43e-03  3.29e-04 -1.06e-03  4.48e-04  1.80e-03  3.67e-04  9.11e-04
## 407 -8.62e-03  6.73e-04 -4.39e-03  9.49e-04  5.44e-03  9.94e-04  2.59e-03
## 408  3.18e-03  1.28e-04  3.50e-04 -2.94e-03 -5.90e-03  3.88e-04 -4.38e-03
## 409 -8.31e-04 -3.26e-04 -5.15e-04  4.40e-04 -4.60e-03 -3.12e-04  8.35e-04
## 410 -1.04e-03  1.35e-04 -3.20e-03 -1.58e-03 -2.14e-03  5.75e-04 -3.13e-02
## 411  1.87e-02  7.03e-05  6.73e-03 -8.75e-03 -2.54e-02  7.78e-04 -1.83e-02
## 412 -1.13e-04  2.06e-05 -5.89e-05 -1.57e-06  5.01e-05  2.52e-05  1.25e-05
## 413 -6.49e-05  1.18e-05 -3.39e-05 -7.17e-07  2.95e-05  1.44e-05  7.77e-06
## 414  3.76e-05  5.18e-06  1.73e-05 -1.85e-05  1.70e-04  3.06e-06 -1.43e-05
## 415 -1.89e-03 -4.31e-04 -1.95e-03 -6.06e-04 -1.42e-02 -2.23e-04  3.57e-05
## 416  1.23e-03 -2.53e-04  7.00e-04  1.47e-04 -3.33e-04 -3.24e-04  5.87e-05
## 417 -4.46e-03 -4.57e-04 -3.31e-03 -2.52e-04 -1.73e-02  1.10e-04 -8.04e-04
## 418  2.13e-03 -2.24e-04  1.19e-03  1.64e-05 -8.63e-04 -3.53e-04 -1.91e-04
## 419 -3.66e-03  7.54e-04 -2.04e-03 -3.44e-04  1.33e-03  9.19e-04  1.60e-04
## 420  1.32e-03  1.69e-04  9.81e-04  2.94e-05  5.44e-03  1.24e-05  1.15e-04
## 421 -1.13e-03  1.70e-04 -4.80e-04  2.31e-04  1.06e-03  1.53e-04  6.51e-04
## 422  9.26e-03 -7.67e-04  4.80e-03 -8.05e-04 -5.23e-03 -1.18e-03 -2.19e-03
## 423 -5.80e-04 -2.23e-04 -4.34e-04  1.89e-04 -3.81e-03 -2.06e-04  4.99e-04
## 424  1.24e-02  4.68e-03 -4.86e-03 -2.71e-05  1.21e-03  2.28e-03 -4.77e-05
## 425 -4.24e-05  6.22e-05 -3.39e-04 -1.85e-04 -3.17e-04  1.07e-04 -4.38e-03
## 426  4.53e-03  5.34e-04 -2.56e-05 -5.42e-03 -9.71e-03  9.76e-04 -7.34e-03
## 427  1.79e-03  4.36e-04 -5.59e-04  1.69e-04 -1.22e-03  1.34e-04  3.35e-05
## 428 -1.89e-04 -2.14e-04 -1.44e-04  2.53e-04 -2.58e-03 -2.57e-04  6.83e-04
## 429 -1.57e-03  8.69e-05 -1.64e-03 -1.15e-03 -7.80e-03  4.16e-04 -1.64e-03
## 430 -8.76e-07 -3.19e-07  3.20e-07 -7.84e-09 -1.05e-07 -1.49e-07 -2.37e-08
## 431 -1.40e-02 -5.05e-03  5.05e-03 -1.45e-04 -1.71e-03 -2.34e-03 -4.34e-04
## 432  9.72e-04  1.41e-04 -3.34e-03  9.70e-06  1.57e-03  1.82e-04 -1.12e-04
## 433  1.32e-02  3.59e-03 -4.50e-03 -1.86e-03 -1.23e-02  1.72e-03 -2.91e-03
## 434 -2.54e-03 -4.13e-04 -1.89e-03  6.27e-05 -1.13e-02 -1.42e-04  1.03e-04
## 435 -6.00e-03 -1.58e-03  1.57e-03  6.41e-04  5.08e-03 -7.12e-04  1.04e-03
## 436 -2.24e-03  3.92e-04 -9.49e-04  4.43e-04  2.53e-03  2.85e-04  1.72e-03
## 437  7.16e-04  2.69e-06  2.57e-04 -3.34e-04 -9.70e-04  2.97e-05 -7.01e-04
## 438 -2.22e-02 -2.32e-03  8.80e-02 -1.03e-03 -4.28e-02 -3.65e-03  9.68e-04
## 439 -1.05e-02 -3.45e-03  3.21e-03 -2.18e-03 -4.22e-03 -1.15e-03 -2.78e-03
## 440 -1.41e-03  4.99e-05 -3.39e-03 -1.21e-03 -1.68e-03  5.12e-04 -3.33e-02
## 441 -2.82e-03  3.06e-04 -1.07e-03  8.73e-04  2.69e-03  2.92e-04  1.60e-03
## 442  5.50e-03  1.50e-03 -1.89e-03 -7.87e-04 -5.14e-03  7.25e-04 -1.24e-03
## 443 -4.40e-03  1.55e-04 -1.20e-03  2.46e-03  5.31e-03  7.87e-05  3.45e-03
## 444  4.90e-03 -6.63e-04  2.14e-03 -9.03e-04 -3.63e-03 -7.40e-04 -1.84e-03
## 445 -6.59e-03 -3.75e-04 -1.75e-03  4.42e-03  9.81e-03 -6.27e-04  7.07e-03
## 446 -6.26e-04 -5.47e-04 -2.15e-04  1.01e-03 -4.81e-03 -6.57e-04  1.91e-03

```

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## 447 | 6.33e-04 | 5.86e-04 | -2.87e-04 | -1.95e-03 | 5.21e-03 | 8.06e-04 | -2.79e-03 |
| ## 448 | 1.27e-03 | 5.04e-04 | 1.33e-04 | -1.80e-03 | 6.14e-03 | 6.01e-04 | -2.19e-03 |
| ## 449 | -8.10e-03 | -4.25e-05 | -2.90e-03 | 3.75e-03 | 1.01e-02 | -2.14e-04 | 6.98e-03 |
| ## 450 | -1.08e-03 | 1.71e-04 | -5.13e-04 | 1.01e-04 | 6.67e-04 | 1.98e-04 | 2.88e-04 |
| ## 451 | -1.42e-03 | 5.46e-05 | -3.67e-04 | 8.39e-04 | 1.91e-03 | 2.62e-06 | 1.30e-03 |
| ## 452 | -1.51e-03 | -2.19e-04 | -1.27e-03 | -2.21e-04 | -7.71e-03 | -3.62e-05 | -1.70e-04 |
| ## 453 | -4.75e-03 | 8.70e-04 | -2.53e-03 | -1.64e-04 | 1.80e-03 | 1.11e-03 | 2.21e-04 |
| ## 454 | -4.38e-02 | 1.31e-03 | 1.01e-01 | 6.42e-04 | 1.19e-02 | -1.57e-04 | 6.62e-03 |
| ## 455 | 6.42e-04 | -1.32e-04 | 3.65e-04 | 7.54e-05 | -1.79e-04 | -1.69e-04 | 2.57e-05 |
| ## 456 | -1.72e-04 | 1.43e-04 | -8.85e-04 | -8.34e-04 | -1.16e-03 | 2.90e-04 | -7.46e-03 |
| ## 457 | 5.09e-04 | -4.81e-05 | 2.74e-04 | -2.31e-05 | -2.90e-04 | -6.87e-05 | -1.27e-04 |
| ## 458 | 2.14e-03 | 1.72e-03 | -1.30e-03 | -6.56e-03 | 5.87e-03 | 2.32e-03 | -8.34e-03 |
| ## 459 | -5.66e-03 | 1.03e-03 | -2.96e-03 | -7.89e-05 | 2.52e-03 | 1.27e-03 | 6.26e-04 |
| ## 460 | -8.48e-04 | 1.74e-04 | -4.86e-04 | -1.07e-04 | 2.07e-04 | 2.26e-04 | -6.22e-05 |
| ## 461 | 9.01e-05 | -1.05e-05 | 3.70e-05 | -2.20e-05 | -7.08e-05 | -1.18e-05 | -3.70e-05 |
| ## 462 | 8.53e-03 | -1.22e-04 | -1.66e-02 | 2.83e-04 | -1.64e-03 | -5.98e-05 | -5.59e-04 |
| ## 463 | -4.12e-03 | -1.48e-04 | -1.25e-03 | 2.41e-03 | 5.62e-03 | -2.63e-04 | 3.96e-03 |
| ## 464 | -1.28e-03 | -4.33e-04 | -5.94e-04 | 8.84e-04 | -4.76e-03 | -4.07e-04 | 1.22e-03 |
| ## 465 | 5.67e-04 | 5.65e-05 | 4.35e-04 | -1.65e-05 | 4.92e-03 | 1.45e-05 | -4.52e-05 |
| ## 466 | 1.35e-02 | -3.91e-04 | 5.68e-03 | -4.28e-03 | -1.32e-02 | -4.65e-04 | -8.28e-03 |
| ## 467 | -8.93e-03 | -5.08e-04 | -2.37e-03 | 5.99e-03 | 1.33e-02 | -8.49e-04 | 9.58e-03 |
| ## 468 | -2.56e-03 | 1.84e-04 | -8.48e-04 | 1.09e-03 | 2.69e-03 | 1.65e-04 | 1.66e-03 |
| ## 469 | 5.01e-03 | -5.15e-04 | 2.78e-03 | -2.27e-05 | -2.22e-03 | -7.94e-04 | -6.33e-04 |
| ## 470 | -3.03e-03 | -8.00e-05 | -9.66e-04 | 1.70e-03 | 4.47e-03 | -2.23e-04 | 3.29e-03 |
| ## 471 | 3.49e-04 | 2.17e-04 | 7.76e-05 | -5.81e-04 | 4.23e-03 | 2.84e-04 | -9.48e-04 |
| ## 472 | 4.72e-04 | -9.95e-06 | 1.91e-04 | -1.66e-04 | -5.02e-04 | -7.65e-06 | -3.30e-04 |
| ## 473 | 3.49e-03 | 4.64e-04 | -1.90e-04 | -4.54e-03 | -8.34e-03 | 9.05e-04 | -6.47e-03 |
| ## 474 | 2.10e-04 | 1.11e-05 | 5.70e-05 | -1.39e-04 | -3.23e-04 | 2.09e-05 | -2.36e-04 |
| ## 475 | 4.23e-04 | 2.62e-04 | 9.39e-05 | -7.04e-04 | 5.12e-03 | 3.44e-04 | -1.15e-03 |
| ## 476 | -1.04e-03 | -5.81e-04 | -7.80e-04 | 5.84e-04 | -8.53e-03 | -6.11e-04 | 1.56e-03 |
| ## 477 | 1.41e-03 | 5.35e-04 | 1.08e-04 | -2.00e-03 | 5.56e-03 | 6.29e-04 | -2.34e-03 |
| ## 478 | -6.04e-04 | -2.05e-04 | -3.26e-04 | 3.51e-04 | -2.64e-03 | -1.89e-04 | 5.36e-04 |
| ## 479 | -1.70e-03 | -2.57e-04 | -1.27e-03 | 1.53e-05 | -7.39e-03 | -6.88e-05 | -3.79e-06 |
| ## 480 | -1.52e-03 | 6.71e-04 | -2.39e-03 | -3.01e-03 | -1.38e-02 | 1.20e-03 | -4.19e-03 |
| ## 481 | 2.04e-04 | 3.55e-05 | 1.23e-04 | -7.56e-05 | 1.59e-03 | 2.81e-05 | -1.00e-04 |
| ## 482 | -2.21e-03 | 2.49e-04 | -8.76e-04 | 6.01e-04 | 1.89e-03 | 2.63e-04 | 1.06e-03 |
| ## 483 | -2.93e-03 | -1.77e-04 | -7.57e-04 | 2.04e-03 | 4.73e-03 | -3.38e-04 | 3.51e-03 |
| ## 484 | -9.86e-04 | -2.25e-06 | 1.82e-05 | 1.32e-03 | 3.08e-03 | -2.40e-05 | 1.69e-03 |
| ## 485 | -1.06e-03 | 1.51e-05 | -1.97e-04 | 7.94e-04 | 1.80e-03 | -6.63e-05 | 1.32e-03 |
| ## 486 | -1.70e-03 | -2.57e-04 | -1.27e-03 | 1.53e-05 | -7.39e-03 | -6.88e-05 | -3.79e-06 |
| ## 487 | -5.45e-04 | -1.86e-04 | -3.44e-04 | 2.42e-04 | -2.81e-03 | -1.67e-04 | 4.39e-04 |
| ## 488 | -1.52e-03 | -2.58e-04 | -9.19e-05 | 1.74e-03 | 3.41e-03 | -4.20e-04 | 2.67e-03 |
| ## 489 | -1.70e-04 | 3.47e-06 | -6.89e-05 | 5.89e-05 | 1.63e-04 | 5.26e-06 | 1.01e-04 |
| ## 490 | 3.83e-03 | -3.69e-04 | 1.28e-03 | -1.58e-03 | -4.64e-03 | -2.31e-04 | -3.12e-03 |
| ## 491 | 1.05e-02 | -1.92e-03 | 5.58e-03 | 3.62e-04 | -3.97e-03 | -2.44e-03 | -4.87e-04 |
| ## 492 | 5.07e-03 | -6.50e-04 | 2.04e-03 | -1.30e-03 | -4.73e-03 | -6.09e-04 | -2.84e-03 |
| ## 493 | 4.25e-04 | 1.07e-04 | 3.17e-04 | -6.21e-05 | 2.25e-03 | 7.49e-05 | -1.58e-04 |
| ## 494 | 3.08e-03 | 3.20e-05 | 5.79e-04 | -2.32e-03 | -4.61e-03 | 1.64e-04 | -3.22e-03 |
| ## 495 | -1.98e-04 | -4.89e-05 | -6.23e-04 | -7.35e-05 | -4.79e-05 | 1.05e-05 | -7.33e-03 |
| ## 496 | 9.93e-05 | 1.50e-06 | -6.61e-06 | -1.44e-04 | -3.36e-04 | 5.29e-06 | -1.89e-04 |
| ## 497 | -7.38e-03 | -3.11e-03 | 3.49e-03 | 1.13e-03 | 9.35e-04 | -1.82e-03 | 1.56e-03 |
| ## 498 | 1.06e-02 | 4.30e-03 | -5.47e-03 | -1.10e-03 | -1.82e-04 | 2.34e-03 | -1.30e-03 |
| ## 499 | 1.19e-02 | 4.21e-03 | -5.04e-03 | 1.45e-03 | 3.68e-03 | 1.68e-03 | 1.97e-03 |
| ## 500 | 9.06e-03 | 3.04e-03 | -3.50e-03 | 1.20e-03 | 3.00e-03 | 1.11e-03 | 1.83e-03 |

```

## 501  2.57e-03  8.11e-04 -8.62e-04  8.17e-05  5.24e-04  3.01e-04  3.47e-04
## 502 -6.85e-04 -2.29e-04  2.61e-04 -7.02e-05 -2.00e-04 -8.60e-05 -1.20e-04
## 503  2.15e-03  5.20e-04 -4.21e-04  5.86e-04  1.21e-03  3.07e-05  1.01e-03
## 504  6.99e-03  2.31e-03 -2.62e-03  9.50e-04  2.37e-03  8.16e-04  1.49e-03
## 505 -8.86e-03 -2.98e-03  3.38e-03 -6.37e-04 -2.21e-03 -1.16e-03 -1.28e-03
## 506  9.99e-03  2.49e-03 -3.02e-03 -5.21e-04 -7.98e-03  9.76e-04 -1.05e-03
## 507 -2.78e-02 -7.41e-03  9.17e-03  3.76e-03  2.53e-02 -3.46e-03  5.73e-03
## 508 -1.40e-02 -3.22e-03  2.85e-03 -7.51e-04  8.84e-03 -9.20e-04 -3.24e-04
## 509  1.17e-02  2.74e-03 -3.00e-03 -1.10e-03 -9.08e-03  1.01e-03 -1.21e-03
## 510 -6.93e-03 -1.72e-03  2.01e-03  7.79e-04  5.80e-03 -7.18e-04  1.04e-03
## 511  3.47e-03 -3.89e-04  1.98e-03  8.57e-05 -1.74e-03 -5.41e-04 -6.76e-04
## 512  2.14e-03  3.55e-04  1.47e-04 -2.40e-03 -4.60e-03  5.56e-04 -3.56e-03
## 513 -6.48e-04  1.88e-04 -2.74e-03 -1.72e-03 -2.29e-03  5.67e-04 -2.67e-02
## 514 -7.73e-04 -3.39e-04 -3.88e-04  5.98e-04 -3.85e-03 -3.48e-04  9.96e-04
## 515 -1.27e-03 -3.51e-07 -4.68e-04  5.61e-04  1.51e-03 -1.95e-05  1.03e-03
## 516 -4.07e-03  2.07e-04 -1.87e-03  9.18e-04  3.41e-03  2.77e-04  2.00e-03
## 517  1.08e-03 -2.23e-04  6.06e-04  1.10e-04 -3.65e-04 -2.75e-04 -1.89e-05
## 518 -7.02e-03 -1.85e-04 -2.24e-03  3.93e-03  1.04e-02 -5.17e-04  7.62e-03
## 519  1.85e-02  6.54e-03 -7.79e-03  1.66e-03  4.93e-03  2.68e-03  2.51e-03
## 520  1.60e-02  5.64e-03 -6.72e-03  1.43e-03  4.25e-03  2.32e-03  2.17e-03
## 521 -1.19e-02 -4.19e-03  4.93e-03 -3.45e-04 -2.18e-03 -1.82e-03 -9.28e-04
## 522  1.65e-02  5.72e-03 -6.72e-03  1.56e-03  4.55e-03  2.28e-03  2.48e-03
## 523  1.18e-02  3.81e-03 -4.41e-03  3.62e-03  6.75e-03  1.02e-03  4.55e-03
## 524 -1.68e-03  2.80e-05 -3.71e-04  1.13e-03  2.44e-03 -4.81e-05  1.71e-03
## 525 -6.52e-04 -2.10e-04  1.92e-04 -1.81e-04 -3.25e-04 -6.12e-05 -2.23e-04
## 526 -4.49e-02 -7.05e-03  2.23e-04 -7.43e-03 -2.04e-02  2.30e-03 -2.21e-02
## 527  1.11e-02  4.38e-03 -4.74e-03 -1.91e-04  7.56e-04  2.26e-03 -5.04e-04
## 528  5.95e-02  9.76e-04 -1.25e-01 -4.71e-03 -2.26e-02  2.72e-03 -1.47e-02
## 529  8.36e-03  2.95e-03 -3.52e-03  7.50e-04  2.22e-03  1.21e-03  1.14e-03
## 530  7.83e-03  2.87e-03 -3.47e-03  1.48e-04  1.29e-03  1.31e-03  3.90e-04
## 531  1.23e-02  4.39e-03 -5.27e-03  1.09e-03  3.24e-03  1.82e-03  1.61e-03
## 532  1.02e-02  1.59e-04  3.48e-03 -5.13e-03 -1.28e-02  3.46e-04 -8.79e-03
## 533  6.20e-04  2.12e-04 -2.48e-04  7.98e-05  2.01e-04  8.01e-05  1.17e-04
## 534  8.09e-03  2.91e-03 -3.50e-03  4.39e-04  1.74e-03  1.26e-03  7.50e-04
## 535 -5.64e-02 -2.18e-02  2.70e-02  3.21e-03 -3.03e-03 -1.10e-02  2.87e-03
## 536  8.38e-03  2.58e-03 -2.95e-03 -1.88e-03 -8.98e-03  1.50e-03 -3.06e-03
## 537 -5.70e-02 -1.85e-02 -9.15e-02  8.37e-03  6.77e-02 -4.91e-03  1.20e-02
## 538 -2.18e-03 -1.24e-03 -4.64e-03  3.60e-04  1.92e-04 -5.11e-04  3.76e-04
## 539 -1.09e-02  2.50e-04  2.44e-02  5.43e-04  3.33e-03 -9.86e-05  1.89e-03
## 540  9.57e-02  1.18e-02 -3.40e-01  1.35e-02  1.78e-01  1.52e-02  1.86e-03
## 541 -5.16e-05  3.28e-03  3.44e-04  1.95e-05  1.20e-05 -3.88e-05  5.86e-05
## 542  1.68e-04 -2.75e-02 -2.90e-03  3.52e-04  9.37e-04 -3.80e-05  4.66e-04
## 543 -1.31e-03  4.14e-02  3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 544  2.89e-02  1.13e-02  4.48e-02 -1.07e-02 -4.52e-02  5.18e-03 -1.53e-02
## 545  1.22e-03 -1.05e-01 -1.06e-02  1.61e-03  4.15e-03 -3.94e-04  2.52e-03
## 546 -1.08e-03 -2.27e-01  1.01e-01 -1.69e-02 -9.02e-02 -2.54e-03 -2.43e-02
## 547  6.44e-04 -3.07e-02 -2.78e-03  5.58e-04  1.02e-03  4.80e-05  5.30e-04
## 548  3.79e-04 -2.69e-02 -2.80e-03  1.56e-04  7.13e-04 -2.38e-05  3.57e-04
## 549 -2.76e-03 -1.24e-01  5.36e-02 -7.33e-03 -4.53e-02 -2.53e-03 -1.03e-02
## 550 -1.67e-03  4.72e-02  4.00e-03 -6.67e-04 -1.52e-03  3.39e-05 -1.04e-03
## 551 -3.47e-03 -1.40e-03 -5.53e-03  1.49e-03  5.88e-03 -6.54e-04  2.06e-03
## 552 -2.14e-02 -1.14e-02 -4.89e-02  5.08e-04 -3.83e-03 -3.56e-03 -1.20e-03
## 553  1.39e-02  4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02  2.42e-03 -4.73e-03
## 554 -7.91e-02 -4.78e-02 -1.83e-01  1.39e-02  3.80e-03 -1.93e-02  1.37e-02

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## 555 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 556 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 557 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 558 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 559 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 560 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 561 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 562 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 563 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 564 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 565 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 566 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 567 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 568 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 569 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03
## 570 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 571 6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04 4.37e-04 4.02e-04 -5.60e-04
## 572 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 573 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 574 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 575 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 576 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 577 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 578 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 579 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 580 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 581 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 582 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 583 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 584 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 585 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 586 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 587 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 588 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03
## 589 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 590 6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04 4.37e-04 4.02e-04 -5.60e-04
## 591 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 592 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 593 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 594 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 595 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 596 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 597 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 598 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 599 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 600 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 601 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 602 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 603 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 604 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 605 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 606 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 607 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03
## 608 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04

```

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## 609  6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04  4.37e-04  4.02e-04 -5.60e-04
## 610  1.39e-02  4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02  2.42e-03 -4.73e-03
## 611 -7.91e-02 -4.78e-02 -1.83e-01  1.39e-02  3.80e-03 -1.93e-02  1.37e-02
## 612 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 613 -1.29e-01 -7.48e-02 -2.85e-01  2.64e-02  1.10e-02 -3.01e-02  2.34e-02
## 614 -3.66e-03  1.98e-04 -1.71e-03  7.73e-04  2.93e-03  2.78e-04  1.66e-03
## 615  3.02e-04  4.85e-05  3.27e-04  8.12e-05  4.64e-03  3.64e-05 -7.05e-05
## 616  3.59e-02  1.97e-02  7.68e-02 -3.75e-03  3.73e-05  7.48e-03 -3.19e-03
## 617 -5.16e-05  3.28e-03  3.44e-04  1.95e-05  1.20e-05 -3.88e-05  5.86e-05
## 618 -3.46e-05  2.16e-03  2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05  6.98e-06
## 619  3.69e-02  2.07e-02  8.00e-02 -4.23e-03 -6.12e-04  8.11e-03 -4.17e-03
## 620  1.45e-02  5.58e-03 -5.86e-03 -5.15e-04  7.33e-04  2.83e-03 -6.40e-04
## 621  1.65e-02  1.78e-01 -7.68e-02  5.66e-04 -2.24e-03  3.51e-03 -1.94e-03
## 622  1.68e-04 -2.75e-02 -2.90e-03  3.52e-04  9.37e-04 -3.80e-05  4.66e-04
## 623  5.05e-03  1.78e-03 -1.76e-03  5.22e-04  1.27e-03  7.42e-04  6.64e-04
## 624  7.76e-03  3.77e-03  1.83e-02  1.23e-03  3.46e-03  7.49e-04  2.31e-03
## 625 -1.82e-03 -5.53e-04  4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 626  1.30e-02  4.62e-03 -5.57e-03  1.56e-03  3.97e-03  1.86e-03  2.09e-03
## 627 -1.31e-03  4.14e-02  3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 628  6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04  4.37e-04  4.02e-04 -5.60e-04
## 629  9.33e-04 -1.03e-04  9.52e-04  6.29e-04  7.32e-03 -2.73e-04  9.30e-04
## 630 -5.35e-03  4.86e-04 -1.93e-03  1.92e-03  5.22e-03  4.72e-04  3.12e-03
## 631  1.17e-03 -1.29e-04  1.20e-03  7.91e-04  9.21e-03 -3.43e-04  1.17e-03
## 632  5.14e-03  5.04e-03 -5.23e-03 -2.01e-02  1.04e-03  6.95e-03 -2.51e-02
## 633  6.21e-03 -3.79e-04  2.97e-03 -1.11e-03 -4.42e-03 -5.76e-04 -2.29e-03
## 634  2.13e-04  1.08e-05  2.07e-04  6.99e-05  2.33e-03 -1.01e-05  4.95e-05
## 635 -3.09e-03  2.99e-04 -1.18e-03  9.69e-04  2.68e-03  3.30e-04  1.48e-03
## 636  8.62e-04 -9.68e-05  4.92e-04  2.13e-05 -4.33e-04 -1.34e-04 -1.68e-04
## 637 -7.88e-04 -6.67e-04 -8.31e-04  3.95e-04 -1.06e-02 -7.47e-04  1.80e-03
## 638 -3.47e-03  3.17e-04 -1.85e-03  2.10e-04  2.14e-03  4.37e-04  1.03e-03
## 639 -8.50e-04 -2.10e-04  6.91e-05  1.25e-03  2.37e-03 -3.45e-04  1.92e-03
## 640 -7.38e-03 -6.06e-04 -1.62e-03  5.68e-03  1.17e-02 -9.22e-04  8.48e-03
## 641 -3.81e-03  7.83e-04 -2.18e-03 -4.68e-04  9.86e-04  1.01e-03 -2.26e-04
## 642  9.60e-04  3.28e-04  1.58e-04 -1.19e-03  4.30e-03  3.74e-04 -1.39e-03
## 643  1.95e-03  4.78e-04  6.10e-04 -1.71e-03  9.04e-03  4.75e-04 -1.83e-03
## 644 -4.70e-03  2.27e-04 -1.35e-03  2.47e-03  5.64e-03  1.33e-04  3.67e-03
## 645  2.64e-02 -2.36e-03  1.40e-02 -1.49e-03 -1.26e-02 -3.83e-03 -4.00e-03
## 646 -8.13e-03 -3.38e-04 -2.38e-03  4.96e-03  1.16e-02 -6.16e-04  8.27e-03
## 647 -2.03e-03 -7.34e-05 -6.14e-04  1.17e-03  2.61e-03 -1.07e-04  1.79e-03
## 648 -2.07e-03 -8.10e-04 -1.28e-03  1.09e-03 -1.15e-02 -7.77e-04  2.08e-03
## 649 -2.86e-05  2.56e-05  6.80e-04 -2.94e-04 -3.21e-04  1.62e-05  1.40e-02
## 650 -3.01e-02  7.07e-04  6.71e-02  1.45e-03  9.06e-03 -2.29e-04  5.07e-03
## 651 -3.98e-02  9.13e-05  8.91e-02  5.51e-03  1.69e-02 -1.50e-03  1.10e-02
## 652 -4.64e-03  7.21e-04 -2.12e-03  6.15e-04  3.39e-03  7.72e-04  1.74e-03
## 653 -3.33e-03  4.54e-04 -1.47e-03  5.80e-04  2.37e-03  5.18e-04  1.16e-03
## 654 -1.42e-03 -8.25e-06 -2.85e-04  1.03e-03  2.06e-03 -6.10e-05  1.42e-03
## 655  1.44e-03 -2.63e-04  7.56e-04  2.52e-05 -6.25e-04 -3.25e-04 -1.43e-04
## 656  6.24e-04  1.73e-05  1.00e-04 -5.10e-04 -9.86e-04  4.77e-05 -6.96e-04
## 657 -8.92e-04 -1.35e-04 -7.87e-05  9.93e-04  2.39e-03 -2.92e-04  1.98e-03
## 658 -5.20e-04  2.05e-05 -2.66e-05  6.15e-04  1.52e-03  1.89e-05  7.89e-04
## 659 -1.04e-02 -3.95e-04 -3.10e-03  6.16e-03  1.44e-02 -7.08e-04  1.02e-02
## 660 -3.70e-04 -7.09e-05 -4.95e-04 -2.25e-02 -7.46e-05 -3.60e-06 -7.43e-05
## 661 -4.75e-04 -6.48e-04 -3.65e-04  7.85e-04 -7.53e-03 -7.93e-04  2.12e-03
## 662 -4.53e-04 -5.07e-06 -7.56e-05  3.62e-04  7.50e-04 -3.38e-05  5.41e-04

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## 663  1.01e-02 -2.07e-03  5.71e-03  1.17e-03 -2.85e-03 -2.63e-03  3.62e-04
## 664  7.10e-03 -5.77e-04  3.66e-03 -6.71e-04 -4.16e-03 -8.79e-04 -1.83e-03
## 665  6.91e-04  6.77e-04 -5.36e-04 -2.10e-03 -1.69e-03  4.20e-04  1.05e-02
## 666  1.07e-03  8.55e-04  4.09e-04 -4.33e-03 -5.70e-03  1.10e-03  2.55e-02
## 667  -6.62e-04 -1.96e-04 -7.04e-04 -3.72e-02  3.51e-04 -1.18e-04  2.84e-04
## 668  2.66e-03 -3.26e-04  1.57e-03  2.06e-04 -8.53e-04 -5.02e-04 -4.54e-05
## 669  -6.46e-04 -6.67e-06 -9.34e-05  5.45e-04  1.18e-03 -6.24e-05  8.78e-04
## 670  1.50e-04  1.38e-06  1.74e-05 -1.35e-04 -3.06e-04  1.87e-05 -2.35e-04
## 671  1.71e-04  2.61e-05  1.67e-04  5.91e-05  1.09e-03  3.68e-06  3.62e-05
## 672  5.47e-05  1.93e-04  7.22e-04 -2.45e-04 -5.46e-04  1.87e-04  1.14e-02
## 673  -3.84e-04 -1.64e-04 -1.61e-04  3.38e-04 -1.60e-03 -1.69e-04  5.06e-04
## 674  6.15e-04  5.58e-04 -9.30e-04 -3.71e-02 -3.29e-03  7.46e-04 -2.63e-03
## 675  -2.10e-02 -2.46e-03  8.18e-02  4.97e-04 -3.76e-02 -3.78e-03  2.45e-03
## 676  -2.93e-03  2.93e-04 -1.02e-03  1.11e-03  3.32e-03  2.17e-04  2.16e-03
## 677  -2.14e-03 -2.39e-04 -3.53e-04  1.96e-03  4.34e-03 -4.44e-04  3.38e-03
## 678  3.69e-03  1.06e-05  7.67e-04 -2.61e-03 -5.19e-03  1.33e-04 -3.54e-03
## 679  2.97e-03 -5.41e-04  1.55e-03  4.14e-05 -1.32e-03 -6.64e-04 -3.28e-04
## 680  4.51e-03  5.01e-04  7.51e-04 -4.05e-03 -8.34e-03  8.22e-04 -6.32e-03
## 681  -2.65e-02 -5.13e-04  6.80e-02  5.43e-03  1.55e-02 -2.36e-03  1.19e-02
## 682  -7.72e-03  1.41e-03 -4.11e-03 -2.67e-04  2.92e-03  1.80e-03  3.59e-04
## 683  -6.05e-03  4.24e-04 -1.97e-03  2.65e-03  6.51e-03  3.64e-04  4.06e-03
## 684  -6.40e-03  1.16e-03 -3.25e-03  1.08e-04  3.48e-03  1.34e-03  1.32e-03
## 685  1.41e-03  1.30e-04  2.14e-05 -1.62e-03 -3.08e-03  2.86e-04 -2.36e-03
## 686  -8.88e-04  5.85e-05 -2.77e-04  4.14e-04  1.01e-03  4.28e-05  6.51e-04
## 687  -8.88e-04  5.85e-05 -2.77e-04  4.14e-04  1.01e-03  4.28e-05  6.51e-04
## 688  1.87e-03 -1.66e-04  6.62e-04 -6.96e-04 -1.88e-03 -1.55e-04 -1.15e-03
## 689  -8.53e-04 -8.67e-05 -7.06e-04 -1.60e-04 -3.92e-03  2.88e-05 -2.24e-04
## 690  -1.93e-04 -1.22e-04 -3.25e-06  3.43e-04 -5.14e-04 -1.45e-04  4.73e-04
## 691  -3.59e-02  1.14e-03  8.17e-02  3.56e-04  9.27e-03  2.51e-05  4.91e-03
## 692  4.72e-03 -6.56e-04  2.14e-03 -6.84e-04 -2.99e-03 -7.92e-04 -1.29e-03
## 693  6.82e-04 -5.22e-04  4.00e-03  3.43e-03  4.67e-03 -1.13e-03  3.61e-02
## 694  2.32e-04 -1.20e-05  2.98e-04  2.54e-04  1.64e-03 -6.54e-05  2.91e-04
## 695  -4.81e-03  6.91e-04 -3.02e-03 -7.97e-04  8.32e-04  1.08e-03 -5.69e-04
## 696  -8.08e-04  8.58e-06 -1.65e-04  5.76e-04  1.24e-03 -3.55e-05  8.83e-04
## 697  -4.86e-05  7.13e-05 -3.88e-04 -2.12e-04 -3.63e-04  1.22e-04 -5.02e-03
## 698  4.83e-04  1.32e-05  6.96e-05 -4.11e-04 -8.22e-04  4.46e-05 -5.96e-04
## 699  1.49e-02  4.62e-03 -5.05e-03  3.11e-03  6.63e-03  1.32e-03  4.62e-03
## 700  1.05e-02  2.74e-03 -3.36e-03 -1.13e-03 -9.17e-03  1.21e-03 -1.81e-03
## 701  1.51e-03 -1.43e-05  5.79e-04 -6.12e-04 -1.81e-03  1.62e-05 -1.25e-03
## 702  -2.63e-03  1.65e-04 -1.27e-03  4.48e-04  1.81e-03  2.56e-04  9.14e-04
## 703  2.14e-03  7.80e-05  1.51e-04 -2.15e-03 -4.66e-03  3.47e-04 -3.61e-03
## 704  4.21e-07  1.70e-05  4.82e-05 -3.63e-05  1.34e-03 -4.02e-05  1.38e-04
## 705  -3.96e-03  3.20e-04 -4.67e-03 -3.85e-03 -2.32e-02  1.23e-03 -5.00e-03
## 706  -1.35e-04 -5.60e-05 -8.30e-05  7.67e-05 -7.71e-04 -5.50e-05  1.48e-04
## 707  -6.38e-05 -4.91e-05  2.41e-04  1.78e-04  2.66e-04 -7.22e-05  3.64e-03
## 708  1.20e-03 -1.88e-04  5.59e-04 -1.40e-04 -8.23e-04 -2.09e-04 -3.98e-04
## 709  -6.32e-03  5.99e-05 -2.43e-03  2.57e-03  7.58e-03 -6.81e-05  5.25e-03
## 710  -1.14e-02 -4.46e-03  4.78e-03  4.89e-04 -4.07e-04 -2.32e-03  7.31e-04
## 711  4.22e-02  2.24e-02  8.89e-02 -3.86e-03  1.02e-03  8.18e-03 -2.41e-03
## 712  1.66e-02  9.20e-03  3.86e-02 -6.07e-04  2.61e-03  3.02e-03  3.96e-04
## 713  -1.17e-02 -3.33e-03  2.42e-03 -4.36e-03 -5.14e-03 -1.23e-03 -1.93e-03
## 714  -6.33e-03 -2.24e-03  2.20e-03 -4.67e-04 -1.34e-03 -9.55e-04 -6.57e-04
## 715  2.99e-03  1.17e-03 -1.47e-03 -9.42e-05  2.57e-04  5.90e-04 -1.01e-04
## 716  1.97e-03  7.25e-04 -7.43e-04  1.23e-04  3.70e-04  3.29e-04  1.37e-04

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## 717 -4.32e-04 -1.50e-04 1.45e-04 -5.98e-05 -1.30e-04 -5.84e-05 -7.58e-05
## 718 3.88e-02 1.67e-02 8.52e-02 9.33e-03 1.99e-02 2.23e-03 1.54e-02
## 719 1.47e-02 5.41e-03 -6.64e-03 1.17e-03 3.62e-03 2.36e-03 1.54e-03
## 720 1.90e-02 7.49e-03 -9.41e-03 -1.21e-03 7.98e-04 3.88e-03 -1.29e-03
## 721 1.95e-03 6.89e-04 -6.81e-04 2.62e-04 5.70e-04 2.78e-04 3.15e-04
## 722 -1.91e-04 -9.88e-05 -4.52e-04 -1.71e-05 -6.54e-05 -2.52e-05 -3.70e-05
## 723 7.42e-04 2.55e-04 -2.47e-04 1.03e-04 2.25e-04 9.90e-05 1.33e-04
## 724 2.28e-03 8.00e-04 -7.86e-04 2.38e-04 5.76e-04 3.30e-04 3.08e-04
## 725 -4.65e-04 -1.69e-04 2.05e-04 -2.38e-05 -9.73e-05 -7.45e-05 -3.90e-05
## 726 4.92e-03 1.78e-03 -1.79e-03 1.88e-04 7.84e-04 8.08e-04 2.79e-04
## 727 -5.63e-03 -1.52e-03 1.58e-03 4.17e-04 4.76e-03 -6.86e-04 9.18e-04
## 728 -1.02e-03 -2.76e-04 2.88e-04 7.67e-05 8.65e-04 -1.25e-04 1.70e-04
## 729 3.42e-02 1.14e-02 5.44e-02 -6.39e-03 -4.27e-02 3.46e-03 -9.01e-03
## 730 4.00e-04 -4.58e-04 -2.63e-04 1.07e-03 1.94e-03 -6.29e-04 -1.22e-02
## 731 -1.42e-03 2.47e-05 -5.68e-04 5.11e-04 1.41e-03 3.45e-05 8.84e-04
## 732 1.17e-01 1.79e-03 -2.61e-01 -6.72e-03 -4.44e-02 6.04e-03 -3.05e-02
## 733 -1.08e-03 -4.23e-04 -6.69e-04 5.71e-04 -5.97e-03 -4.05e-04 1.08e-03
## 734 -3.61e-04 7.44e-05 -2.03e-04 -3.84e-05 1.16e-04 9.29e-05 1.87e-07
## 735 -1.25e-03 9.68e-06 -2.73e-04 8.58e-04 1.77e-03 -3.66e-05 1.22e-03
## 736 -6.41e-03 -4.15e-05 -2.28e-03 2.95e-03 7.38e-03 -9.05e-05 4.92e-03
## 737 -9.96e-05 -9.87e-05 8.75e-04 2.45e-04 4.40e-04 -1.62e-04 1.46e-02
## 738 5.79e-04 2.13e-04 1.58e-04 -6.64e-04 4.00e-03 2.49e-04 -8.82e-04
## 739 1.15e-02 -1.39e-03 6.75e-03 7.69e-04 -4.11e-03 -2.10e-03 -6.08e-04
## 740 -4.56e-03 7.15e-04 -2.13e-03 5.13e-04 3.07e-03 7.99e-04 1.46e-03
## 741 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 742 4.20e-03 7.49e-04 -7.54e-04 -6.63e-03 -1.25e-02 1.55e-03 -1.01e-02
## 743 3.85e-02 2.19e-02 8.20e-02 -6.38e-03 -3.45e-03 9.05e-03 -6.71e-03
## 744 1.46e-02 5.98e-03 -6.59e-03 -1.68e-03 -1.00e-03 3.36e-03 -2.30e-03
## 745 2.06e-02 -1.94e-03 1.11e-02 -9.34e-04 -1.17e-02 -2.78e-03 -5.14e-03
## 746 -3.98e-02 -1.95e-04 9.33e-02 6.38e-03 1.90e-02 -2.17e-03 1.33e-02
## 747 -1.09e-02 -3.92e-03 3.88e-03 -1.44e-04 -1.40e-03 -1.79e-03 -4.23e-04
## 748 4.77e-03 6.84e-04 -2.59e-04 -6.23e-03 -1.10e-02 1.22e-03 -8.46e-03
## 749 -1.79e-02 -6.33e-03 7.55e-03 -1.59e-03 -4.73e-03 -2.61e-03 -2.39e-03
## 750 9.71e-05 -6.89e-06 4.82e-05 -1.40e-05 -7.07e-05 -9.40e-06 -3.83e-05
## 751 -1.20e-02 -4.50e-03 5.54e-03 -1.40e-04 -1.81e-03 -2.12e-03 -3.56e-04
## 752 1.29e-02 4.77e-03 -5.81e-03 2.04e-04 2.05e-03 2.20e-03 5.31e-04
## 753 -9.25e-03 -3.31e-03 3.28e-03 -1.24e-04 -1.19e-03 -1.51e-03 -3.65e-04
## 754 3.69e-04 1.31e-04 -1.30e-04 2.66e-05 7.67e-05 5.66e-05 3.63e-05
## 755 1.03e-03 2.78e-04 -3.48e-04 -1.44e-04 -9.52e-04 1.32e-04 -2.23e-04
## 756 1.65e-03 6.66e-04 -8.45e-04 -1.68e-04 -2.24e-05 3.60e-04 -1.94e-04
## 757 2.87e-03 8.65e-04 -9.67e-04 -6.17e-04 -2.99e-03 4.91e-04 -9.82e-04
## 758 7.15e-03 2.02e-04 -1.61e-02 -7.81e-04 -3.27e-03 5.15e-04 -2.37e-03
## 759 1.08e-03 4.16e-04 -5.16e-04 -6.11e-05 5.87e-05 2.11e-04 -5.39e-05
## 760 1.58e-02 5.77e-03 -7.01e-03 7.86e-04 3.26e-03 2.56e-03 1.26e-03
## 761 -3.88e-03 5.14e-04 -1.64e-03 8.32e-04 3.19e-03 5.36e-04 1.76e-03
## 762 1.58e-04 9.79e-05 3.51e-05 -2.63e-04 1.91e-03 1.29e-04 -4.28e-04
## 763 -3.85e-03 6.14e-04 -1.86e-03 2.93e-04 2.18e-03 7.36e-04 8.39e-04
## 764 5.35e-03 2.07e-03 -2.61e-03 1.83e-04 9.45e-04 9.87e-04 1.84e-04
## 765 -1.43e-03 2.93e-04 -8.12e-04 -1.70e-04 3.86e-04 3.76e-04 -6.81e-05
## 766 8.78e-04 2.72e-05 1.33e-04 -7.34e-04 -1.42e-03 7.37e-05 -1.01e-03
## 767 1.25e-02 3.58e-03 -3.83e-03 -2.19e-03 -1.21e-02 1.88e-03 -3.48e-03
## 768 1.74e-03 1.79e-04 7.64e-06 -2.03e-03 -3.79e-03 3.65e-04 -2.89e-03
## 769 9.86e-03 -1.81e-03 5.27e-03 3.86e-04 -3.58e-03 -2.32e-03 -3.17e-04
## 770 -4.09e-03 8.45e-04 -2.23e-03 -2.77e-04 1.90e-03 9.75e-04 5.70e-04

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## 771  6.30e-02  6.07e-04 -1.27e-01 -3.91e-03 -2.12e-02  1.94e-03 -1.25e-02
## 772 -3.99e-02 -1.44e-02  1.70e-02  1.38e-03 -3.77e-03 -6.74e-03 -2.57e-04
## 773  2.06e-02  7.01e-03 -8.23e-03  3.32e-03  7.57e-03  2.54e-03  4.56e-03
## 774 -8.49e-03 -5.50e-05 -3.03e-03  3.91e-03  9.78e-03 -1.20e-04  6.52e-03
## 775 -1.35e-02 -4.93e-03  5.92e-03  1.37e-04 -1.70e-03 -2.30e-03 -3.10e-04
## 776 -6.00e-03 -1.98e-03  1.81e-03 -5.42e-04 -1.47e-03 -7.59e-04 -9.24e-04
## 777 -2.44e-03 -3.99e-05 -8.27e-04  1.21e-03  2.85e-03 -5.53e-05  1.89e-03
## 778 -2.54e-02  3.11e-04  5.70e-02  2.42e-03  9.35e-03 -6.14e-04  5.79e-03
## 779 -4.02e-03  3.40e-04 -2.09e-03  3.78e-04  2.90e-03  4.29e-04  1.60e-03
## 780 -8.12e-04 -2.05e-04 -6.05e-04  1.19e-04 -4.30e-03 -1.43e-04  3.01e-04
## 781  2.77e-03 -1.86e-04  8.78e-04 -1.27e-03 -3.11e-03 -1.44e-04 -1.98e-03
## 782 -3.80e-02  4.09e-04  9.31e-02  3.25e-03  1.51e-02 -1.50e-03  1.05e-02
## 783 -7.32e-04 -2.46e-05 -2.27e-03 -7.48e-04 -9.31e-04  2.46e-04 -2.42e-02
## 784  3.92e-05  1.98e-05  3.72e-05 -7.26e-06  3.68e-04  1.95e-05 -4.38e-05
## 785  1.65e-03 -9.08e-05  1.97e-03  1.33e-03  1.99e-02 -3.41e-04  1.34e-03
## 786 -1.88e-03 -3.55e-05 -1.90e-03 -1.08e-03 -1.01e-02  3.03e-04 -1.38e-03
## 787 -2.36e-03 -4.81e-04 -2.02e-03 -2.17e-04 -1.37e-02 -2.39e-04  2.09e-04
## 788  6.54e-04  6.26e-05  6.66e-04  1.99e-04  8.34e-03  1.39e-05  2.73e-05
## 789  5.11e-04  3.75e-05  5.50e-04  3.09e-04  3.29e-03 -4.82e-05  3.05e-04
## 790  3.08e-04 -2.24e-05  9.17e-05 -1.52e-04 -4.01e-04 -9.80e-06 -2.74e-04
## 791  2.25e-02  9.00e-03 -1.14e-02 -1.56e-03  6.92e-04  4.74e-03 -1.87e-03
## 792 -1.72e-03  2.39e-04 -7.80e-04  2.56e-04  1.11e-03  2.87e-04  4.89e-04
## 793  1.56e-02  6.52e-03 -8.51e-03 -1.33e-03  2.23e-05  3.59e-03 -1.94e-03
## 794 -3.68e-02  5.14e-04  8.81e-02  2.80e-03  1.37e-02 -1.16e-03  9.14e-03
## 795 -7.03e-04  2.20e-05 -2.98e-04  2.15e-04  6.64e-04  2.82e-05  4.11e-04
## 796 -3.68e-03 -4.76e-05 -3.24e-03 -1.45e-03 -1.56e-02  5.81e-04 -2.36e-03
## 797 -1.98e-02 -8.19e-03  1.06e-02  2.22e-03  6.42e-04 -4.55e-03  2.84e-03
## 798 -2.59e-03 -1.01e-03  1.07e-03  2.93e-05 -2.07e-04 -5.08e-04  7.55e-05
## 799  2.00e-03  7.21e-04 -7.30e-04  2.58e-04  5.61e-04  3.02e-04  2.87e-04
## 800  2.45e-03 -8.14e-05  5.11e-04 -1.70e-03 -4.10e-03  1.12e-04 -3.02e-03
## 801 -6.85e-03 -2.53e-03  3.12e-03 -5.40e-04 -1.67e-03 -1.11e-03 -6.98e-04
## 802  2.48e-03  8.60e-04 -8.44e-04  4.97e-04  9.49e-04  3.17e-04  5.75e-04
## 803  4.41e-02  2.49e-02  9.57e-02 -5.18e-03 -9.71e-04  9.83e-03 -5.30e-03
## 804  1.10e-02  4.40e-03 -5.60e-03 -7.74e-04  3.16e-04  2.33e-03 -9.42e-04
## 805  1.23e-02  4.99e-03 -5.47e-03 -1.02e-03 -2.93e-04  2.73e-03 -1.49e-03
## 806  5.49e-03  1.95e-03 -1.93e-03  5.63e-04  1.37e-03  8.13e-04  7.08e-04
## 807  4.16e-02  2.12e-02  9.23e-02  2.47e-03  9.93e-03  6.25e-03  5.07e-03
## 808 -3.09e-03  3.94e-04 -3.96e-03 -3.68e-03 -1.95e-02  1.18e-03 -4.73e-03
## 809 -7.38e-03 -2.62e-03  3.15e-03 -8.92e-04 -2.27e-03 -1.05e-03 -1.21e-03
## 810 -9.65e-03 -3.61e-03  4.43e-03 -1.22e-04 -1.47e-03 -1.69e-03 -3.12e-04
## 811  4.23e-03 -3.91e-04  1.55e-03 -1.46e-03 -3.99e-03 -3.95e-04 -2.34e-03
## 812 -4.11e-04 -1.39e-04 -1.66e-04  3.22e-04 -1.32e-03 -1.33e-04  4.13e-04
## 813 -5.99e-03  9.32e-04 -2.74e-03  7.95e-04  4.38e-03  9.97e-04  2.25e-03
## 814 -7.85e-04  8.09e-05 -8.60e-04 -6.89e-04 -3.89e-03  2.62e-04 -9.96e-04
## 815 -1.14e-03  2.08e-04 -6.05e-04 -3.92e-05  4.30e-04  2.65e-04  5.28e-05
## 816  2.11e-03 -1.07e-04  9.69e-04 -5.07e-04 -2.12e-03 -9.39e-05 -1.39e-03
## 817 -1.13e-04  4.06e-05  5.57e-04 -3.09e-04 -3.81e-04  5.20e-05  1.27e-02
## 818  2.76e-05  4.88e-04 -1.55e-03 -1.84e-03 -2.78e-03  7.57e-04 -1.57e-02
## 819  2.60e-05 -1.87e-05  1.47e-04  4.98e-03  2.30e-04 -4.35e-05  1.86e-04
## 820 -3.80e-02 -1.06e-05  1.00e-01  4.49e-03  1.83e-02 -2.55e-03  1.40e-02
## 821 -2.22e-03 -7.23e-04 -5.59e-04  2.22e-03 -3.97e-03 -7.10e-04  2.44e-03
## 822 -6.73e-06 -5.72e-07  1.13e-06  1.03e-05  2.41e-05 -2.59e-06  2.04e-05
## 823 -1.19e-04 -8.25e-05 -1.17e-03 -3.10e-04 -2.40e-04  8.44e-06 -1.47e-02
## 824 -4.53e-03 -5.03e-05 -1.57e-03  2.27e-03  6.53e-03 -2.66e-04  4.81e-03

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## 825  1.46e-04  9.20e-05 -8.51e-05 -2.18e-04  5.69e-04  5.15e-05 -3.83e-05
## 826  3.60e-04 -1.09e-04  6.33e-04  7.11e-04  5.57e-03 -2.09e-04  7.89e-04
## 827  3.04e-04 -1.29e-04  1.37e-03  1.50e-04  4.82e-04 -2.70e-04  2.03e-02
## 828 -1.07e-02 -6.94e-05 -3.82e-03  4.93e-03  1.23e-02 -1.51e-04  8.23e-03
## 829  1.54e-02 -1.52e-03  8.43e-03 -3.71e-04 -7.76e-03 -2.27e-03 -2.86e-03
## 830  9.57e-04 -1.97e-04  5.36e-04  9.59e-05 -3.28e-04 -2.43e-04 -2.08e-05
## 831 -1.24e-03  1.99e-04 -6.06e-04  8.41e-05  6.74e-04  2.43e-04  2.42e-04
## 832 -3.01e-03  9.87e-05 -8.02e-04  1.73e-03  3.73e-03  3.55e-05  2.45e-03
## 833 -3.01e-03  9.87e-05 -8.02e-04  1.73e-03  3.73e-03  3.55e-05  2.45e-03
## 834  2.90e-03  5.31e-05  4.27e-04 -2.44e-03 -5.05e-03  2.66e-04 -3.71e-03
## 835 -1.12e-03  1.34e-04 -4.08e-04  3.81e-04  1.30e-03  9.45e-05  8.67e-04
## 836  6.54e-03 -2.73e-04  2.90e-03 -1.76e-03 -6.23e-03 -2.99e-04 -3.94e-03
## 837  3.64e-02  3.91e-03 -1.22e-01  5.72e-03  6.62e-02  4.75e-03  2.97e-03
## 838  1.30e-03  1.03e-04  1.21e-03  4.83e-04  6.82e-03 -9.47e-05  5.70e-04
## 839  2.81e-02 -2.99e-03  1.58e-02  3.81e-04 -1.09e-02 -4.74e-03 -2.02e-03
## 840  4.15e-03 -7.58e-04  2.18e-03  8.72e-05 -1.75e-03 -9.41e-04 -3.67e-04
## 841  4.33e-03 -3.86e-04  1.53e-03 -1.61e-03 -4.36e-03 -3.58e-04 -2.66e-03
## 842 -5.60e-04 -2.46e-04 -2.81e-04  4.33e-04 -2.79e-03 -2.52e-04  7.21e-04
## 843  3.06e-03 -5.52e-04  3.85e-03  3.77e-03  1.72e-02 -1.38e-03  5.22e-03
## 844 -3.44e-04  3.56e-05 -1.24e-04  1.20e-04  3.63e-04  2.97e-05  2.29e-04
## 845 -1.10e-03 -5.33e-05 -3.07e-04  7.15e-04  1.75e-03 -1.15e-04  1.31e-03
## 846 -6.94e-03  2.55e-04 -3.01e-03  2.02e-03  7.04e-03  2.32e-04  4.59e-03
## 847  1.87e-03 -1.73e-04  5.94e-04 -8.35e-04 -2.43e-03 -8.60e-05 -1.68e-03
## 848 -7.35e-03  1.35e-03 -3.89e-03 -2.05e-04  2.94e-03  1.69e-03  4.94e-04
## 849 -1.37e-03 -3.35e-04 -7.89e-04  5.41e-04 -5.17e-03 -2.48e-04  6.82e-04
## 850 -1.57e-03  1.30e-03 -1.06e-03 -2.36e-03  2.37e-02  2.18e-03 -6.56e-03
## 851  3.87e-03  2.44e-03 -1.65e-03 -9.76e-03  6.19e-03  3.19e-03 -1.17e-02
## 852  1.20e-03  7.75e-04  5.29e-04 -4.03e-03 -5.23e-03  9.62e-04  2.45e-02
## 853 -1.89e-02 -3.68e-04  4.06e-02  1.64e-03  7.58e-03 -9.92e-04  5.08e-03
## 854 -1.39e-02 -7.00e-04  6.44e-02 -2.59e-03 -4.46e-03 -1.41e-03 -7.13e-02
## 855  3.57e-03 -6.47e-04  1.81e-03 -6.00e-05 -1.94e-03 -7.48e-04 -7.36e-04
## 856 -9.77e-04 -9.93e-05 -8.08e-04 -1.83e-04 -4.49e-03  3.29e-05 -2.57e-04
## 857 -5.50e-03  3.58e-04 -1.70e-03  2.60e-03  6.35e-03  2.52e-04  4.10e-03
## 858  1.17e-03 -1.88e-04  5.75e-04 -6.79e-05 -6.01e-04 -2.33e-04 -1.96e-04
## 859  5.89e-03 -6.39e-04  2.24e-03 -1.82e-03 -5.61e-03 -6.11e-04 -3.35e-03
## 860 -1.98e-05 -1.04e-06 -1.08e-06  2.08e-05  4.32e-05 -3.45e-06  3.34e-05
## 861 -1.51e-03  6.86e-05 -3.74e-04  9.21e-04  2.23e-03 -1.60e-05  1.58e-03
## 862 -7.64e-04 -1.93e-04 -5.70e-04  1.12e-04 -4.05e-03 -1.35e-04  2.84e-04
## 863 -5.89e-03  3.44e-04 -2.78e-03  1.20e-03  5.28e-03  3.79e-04  3.29e-03
## 864  6.31e-04  5.02e-04 -2.89e-04 -1.46e-03 -9.01e-04  2.21e-04  9.88e-03
## 865  8.98e-05  6.08e-05  5.73e-04 -4.58e-04 -5.34e-04  5.72e-05  1.22e-02
## 866 -8.74e-04 -1.12e-04 -1.00e-03 -5.54e-04 -6.59e-03  2.37e-05 -4.01e-04
## 867 -3.50e-04  5.44e-05 -1.60e-04  4.64e-05  2.56e-04  5.82e-05  1.31e-04
## 868  4.14e-04 -7.58e-05  2.20e-04  1.43e-05 -1.57e-04 -9.65e-05 -1.92e-05
## 869 -3.10e-05  2.77e-05  7.36e-04 -3.18e-04 -3.47e-04  1.75e-05  1.52e-02
## 870  8.53e-04  7.56e-05 -1.39e-05 -1.03e-03 -2.08e-03  2.00e-04 -1.64e-03
## 871 -2.26e-03 -4.24e-05 -7.54e-04  1.16e-03  2.89e-03 -9.20e-05  2.01e-03
## 872  1.09e-04 -4.39e-05  1.70e-04  2.07e-04  1.07e-03 -8.00e-05  2.80e-04
## 873  1.44e-03  1.27e-04 -2.35e-05 -1.74e-03 -3.50e-03  3.36e-04 -2.76e-03
## 874 -8.49e-03 -5.49e-04 -2.13e-03  5.99e-03  1.33e-02 -9.42e-04  9.72e-03
## 875 -5.77e-03  8.97e-04 -2.64e-03  7.65e-04  4.22e-03  9.60e-04  2.17e-03
## 876 -4.87e-03  6.26e-04 -1.97e-03  1.24e-03  4.52e-03  5.90e-04  2.69e-03
## 877  2.15e-04  3.29e-05  2.11e-04  7.46e-05  1.37e-03  4.64e-06  4.57e-05
## 878 -5.19e-03  1.73e-04 -1.39e-03  2.96e-03  6.39e-03  6.76e-05  4.18e-03

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## 879 -2.08e-05 2.67e-05 6.58e-06 -6.89e-05 -1.20e-04 3.73e-05 5.95e-04
## 880 -3.72e-03 4.82e-05 -4.22e-03 -3.02e-03 -2.28e-02 8.03e-04 -3.61e-03
## 881 -2.26e-03 -2.72e-04 -1.68e-03 -7.39e-05 -9.16e-03 2.01e-06 -2.61e-04
## 882 -7.82e-04 6.18e-05 -6.65e-04 -3.12e-04 -4.53e-03 1.92e-04 -6.13e-04
## 883 -4.63e-03 6.26e-04 -2.02e-03 8.53e-04 3.42e-03 6.99e-04 1.74e-03
## 884 5.22e-04 1.27e-04 2.40e-04 -3.57e-04 3.65e-03 1.26e-04 -4.53e-04
## 885 8.31e-03 7.96e-05 2.90e-03 -4.10e-03 -1.18e-02 4.58e-04 -8.67e-03
## 886 5.61e-03 1.05e-04 1.87e-03 -2.89e-03 -7.19e-03 2.29e-04 -5.00e-03
## 887 -3.01e-04 9.45e-06 -1.28e-04 9.55e-05 3.26e-04 6.12e-06 2.19e-04
## 888 -5.19e-03 1.87e-04 -2.25e-03 1.47e-03 4.62e-03 2.65e-04 2.76e-03
## 889 -3.24e-03 -7.22e-05 -1.06e-03 1.70e-03 3.97e-03 -1.14e-04 2.69e-03
## 890 -9.28e-03 1.69e-03 -4.85e-03 -1.12e-04 4.19e-03 2.07e-03 1.08e-03
## 891 -4.79e-03 8.76e-04 -2.53e-03 -1.30e-04 1.93e-03 1.10e-03 3.32e-04
## 892 -2.66e-03 -1.01e-04 -7.93e-04 1.60e-03 3.94e-03 -2.18e-04 2.88e-03
## 893 7.45e-04 7.60e-05 4.70e-04 -1.56e-04 4.83e-03 2.08e-05 -1.08e-04
## 894 7.80e-04 6.55e-04 -2.82e-04 -2.19e-03 5.99e-03 8.92e-04 -3.10e-03
## 895 1.67e-03 3.07e-05 2.47e-04 -1.41e-03 -2.92e-03 1.54e-04 -2.14e-03
## 896 -4.74e-04 1.23e-04 -6.28e-04 -6.32e-04 -4.42e-03 2.45e-04 -8.58e-04
## 897 -6.17e-04 -4.90e-05 -5.73e-04 -2.29e-04 -3.23e-03 4.49e-05 -2.70e-04
## 898 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 899 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 900 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 901 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 902 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 903 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 904 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 905 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 906 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 907 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 908 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 909 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 910 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 911 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 912 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 913 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 914 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03
## 915 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 916 6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04 4.37e-04 4.02e-04 -5.60e-04
## 917 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 918 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 919 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 920 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 921 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 922 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 923 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 924 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 925 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 926 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 927 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 928 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 929 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 930 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 931 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 932 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04

```

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## 933 | 1.30e-02 | 4.62e-03 | -5.57e-03 | 1.56e-03 | 3.97e-03 | 1.86e-03 | 2.09e-03 |
| ## 934 | -1.31e-03 | 4.14e-02 | 3.64e-03 | -5.09e-04 | -1.17e-03 | -4.13e-05 | -6.97e-04 |
| ## 935 | 6.88e-04 | -7.63e-02 | -8.64e-03 | -5.62e-04 | 4.37e-04 | 4.02e-04 | -5.60e-04 |
| ## 936 | 2.88e-02 | 1.38e-02 | 6.91e-02 | 6.16e-03 | 1.51e-02 | 2.35e-03 | 1.04e-02 |
| ## 937 | 1.84e-02 | 6.26e-03 | -7.29e-03 | 2.38e-03 | 5.98e-03 | 2.34e-03 | 3.53e-03 |
| ## 938 | -7.54e-03 | -2.57e-03 | 2.47e-03 | -1.29e-03 | -2.62e-03 | -9.53e-04 | -1.61e-03 |
| ## 939 | 4.45e-02 | 1.88e-02 | 1.06e-01 | 1.52e-02 | 3.18e-02 | 7.06e-04 | 2.47e-02 |
| ## 940 | 3.04e-02 | 1.67e-02 | 6.87e-02 | -2.51e-03 | 2.86e-03 | 5.69e-03 | -5.78e-04 |
| ## 941 | -4.95e-03 | -1.84e-03 | 1.92e-03 | -6.03e-04 | -1.31e-03 | -8.07e-04 | -5.92e-04 |
| ## 942 | 6.29e-03 | 2.60e-03 | -2.88e-03 | -5.63e-04 | -2.30e-04 | 1.44e-03 | -8.70e-04 |
| ## 943 | 3.67e-02 | 2.06e-02 | 7.96e-02 | -4.23e-03 | -6.62e-04 | 8.09e-03 | -4.21e-03 |
| ## 944 | -1.93e-03 | -7.94e-04 | 8.80e-04 | 1.71e-04 | 6.69e-05 | -4.41e-04 | 2.62e-04 |
| ## 945 | 2.36e-03 | 8.35e-04 | -8.25e-04 | 2.43e-04 | 5.90e-04 | 3.48e-04 | 3.08e-04 |
| ## 946 | -4.02e-02 | -1.68e-02 | 2.19e-02 | 4.67e-03 | 1.61e-03 | -9.44e-03 | 6.19e-03 |
| ## 947 | -4.01e-03 | -1.54e-03 | 1.63e-03 | 3.07e-05 | -3.49e-04 | -7.68e-04 | 7.62e-05 |
| ## 948 | 8.49e-03 | 3.17e-03 | -3.28e-03 | 2.52e-04 | 1.21e-03 | 1.50e-03 | 2.71e-04 |
| ## 949 | 1.30e-02 | 4.75e-03 | -5.77e-03 | 6.42e-04 | 2.67e-03 | 2.11e-03 | 1.02e-03 |
| ## 950 | 1.01e-02 | 3.40e-03 | -3.20e-03 | 1.77e-03 | 3.60e-03 | 1.21e-03 | 2.29e-03 |
| ## 951 | 1.01e-03 | 3.92e-04 | -4.18e-04 | -1.18e-05 | 7.95e-05 | 1.98e-04 | -3.06e-05 |
| ## 952 | 1.16e-02 | 4.42e-03 | -5.46e-03 | -2.62e-04 | 1.19e-03 | 2.16e-03 | -1.17e-04 |
| ## 953 | 3.88e-02 | 1.90e-02 | 8.64e-02 | 4.58e-03 | 1.26e-02 | 4.83e-03 | 7.93e-03 |
| ## 954 | 1.30e-02 | 4.67e-03 | -5.68e-03 | 1.52e-03 | 3.89e-03 | 1.92e-03 | 1.97e-03 |
| ## 955 | 3.89e-02 | 2.03e-02 | 9.00e-02 | 1.41e-03 | 1.04e-02 | 5.62e-03 | 5.24e-03 |
| ## 956 | 1.59e-04 | -4.63e-05 | 2.08e-04 | 1.47e-02 | 1.73e-04 | -8.32e-05 | 1.87e-04 |
| ## 957 | -3.83e-03 | 5.22e-04 | -1.69e-03 | 6.66e-04 | 2.73e-03 | 5.95e-04 | 1.34e-03 |
| ## 958 | 2.80e-04 | -1.47e-04 | 1.08e-03 | 3.38e-02 | 1.66e-03 | -3.40e-04 | 1.40e-03 |
| ## 959 | 2.23e-04 | 3.59e-04 | -3.95e-05 | -7.64e-04 | 2.26e-03 | 4.65e-04 | -1.39e-03 |
| ## 960 | 5.54e-02 | 7.22e-05 | -1.12e-01 | -1.29e-03 | -1.60e-02 | 1.12e-03 | -8.78e-03 |
| ## 961 | 4.50e-04 | 3.60e-05 | 1.21e-05 | -5.01e-04 | -9.80e-04 | 8.70e-05 | -7.52e-04 |
| ## 962 | -4.58e-03 | 9.41e-04 | -2.61e-03 | -5.62e-04 | 1.18e-03 | 1.21e-03 | -2.71e-04 |
| ## 963 | -4.11e-03 | 1.29e-04 | -1.74e-03 | 1.25e-03 | 3.88e-03 | 1.65e-04 | 2.40e-03 |
| ## 964 | 1.59e-01 | -4.00e-03 | -3.07e-01 | 1.24e-02 | -2.02e-02 | -3.70e-03 | -1.24e-03 |
| ## 965 | -6.54e-03 | 6.18e-04 | -3.53e-03 | 2.97e-04 | 3.72e-03 | 8.82e-04 | 1.63e-03 |
| ## 966 | -6.45e-03 | -1.70e-04 | -2.06e-03 | 3.61e-03 | 9.52e-03 | -4.75e-04 | 7.00e-03 |
| ## 967 | -7.24e-04 | -4.34e-04 | -7.40e-05 | 1.16e-03 | -2.23e-03 | -5.08e-04 | 1.63e-03 |
| ## 968 | -4.58e-03 | 9.41e-04 | -2.61e-03 | -5.62e-04 | 1.18e-03 | 1.21e-03 | -2.71e-04 |
| ## 969 | 1.31e-01 | 6.31e-03 | -2.79e-01 | -2.79e-02 | -7.46e-02 | 1.21e-02 | -5.42e-02 |
| ## 970 | 2.80e-02 | -5.62e-04 | -6.42e-02 | -1.63e-03 | -9.17e-03 | 4.56e-04 | -5.53e-03 |
| ## 971 | 1.03e-03 | 9.18e-04 | -5.23e-04 | -3.18e-03 | 6.74e-03 | 1.26e-03 | -4.40e-03 |
| ## 972 | -5.96e-03 | 1.93e-04 | -2.54e-03 | 1.79e-03 | 5.56e-03 | 2.52e-04 | 3.42e-03 |
| ## 973 | 8.33e-03 | -8.23e-04 | 4.56e-03 | -2.01e-04 | -4.19e-03 | -1.23e-03 | -1.55e-03 |
| ## 974 | -2.77e-03 | 4.38e-04 | -1.32e-03 | 2.59e-04 | 1.71e-03 | 5.08e-04 | 7.40e-04 |
| ## 975 | 5.55e-03 | -6.86e-04 | 3.29e-03 | 4.58e-04 | -1.68e-03 | -1.06e-03 | 6.35e-07 |
| ## 976 | 3.06e-02 | -2.54e-03 | 1.59e-02 | -2.66e-03 | -1.73e-02 | -3.91e-03 | -7.23e-03 |
| ## 977 | 5.31e-03 | -5.46e-04 | 2.94e-03 | -2.40e-05 | -2.35e-03 | -8.41e-04 | -6.71e-04 |
| ## 978 | 2.38e-04 | -2.25e-05 | 1.28e-04 | -1.08e-05 | -1.35e-04 | -3.21e-05 | -5.94e-05 |
| ## 979 | -2.35e-03 | 2.03e-04 | -8.09e-04 | 9.17e-04 | 2.47e-03 | 1.75e-04 | 1.54e-03 |
| ## 980 | 8.06e-03 | -6.01e-04 | 4.05e-03 | -1.02e-03 | -5.47e-03 | -8.57e-04 | -2.79e-03 |
| ## 981 | 3.87e-04 | -1.76e-05 | 1.74e-04 | -1.03e-04 | -4.16e-04 | -1.19e-05 | -2.82e-04 |
| ## 982 | 3.10e-03 | -2.94e-05 | 1.19e-03 | -1.26e-03 | -3.72e-03 | 3.34e-05 | -2.57e-03 |
| ## 983 | 7.57e-03 | -7.68e-04 | 2.68e-03 | -2.78e-03 | -8.33e-03 | -5.98e-04 | -5.37e-03 |
| ## 984 | 5.77e-05 | 2.25e-05 | 2.26e-04 | 1.97e-05 | -3.37e-07 | 3.93e-06 | 2.80e-03 |
| ## 985 | -6.84e-03 | 4.62e-05 | -2.60e-03 | 2.80e-03 | 7.59e-03 | 2.93e-06 | 5.03e-03 |
| ## 986 | 8.83e-03 | -2.77e-04 | 3.75e-03 | -2.70e-03 | -8.34e-03 | -3.54e-04 | -5.16e-03 |

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## 987 -2.05e-02 -3.48e-03 9.10e-02 -1.91e-01 3.59e-03 -5.17e-03 5.35e-03
## 988 -1.13e-02 3.31e-04 -4.78e-03 3.47e-03 9.77e-03 5.73e-04 5.64e-03
## 989 1.19e-01 -1.97e-03 -3.02e-01 -6.25e-03 -4.42e-02 4.50e-03 -3.15e-02
## 990 -3.32e-03 3.12e-04 -1.23e-03 1.11e-03 3.03e-03 3.27e-04 1.74e-03
## 991 1.62e-04 4.56e-05 1.27e-04 -5.34e-05 2.16e-03 4.90e-05 -1.48e-04
## 992 -1.13e-03 1.14e-04 -6.22e-04 1.42e-05 5.28e-04 1.74e-04 1.70e-04
## 993 1.51e-03 6.86e-05 4.33e-04 -9.49e-04 -2.21e-03 1.26e-04 -1.59e-03
## 994 1.76e-03 -2.39e-04 7.74e-04 -3.06e-04 -1.25e-03 -2.73e-04 -6.13e-04
## 995 -1.44e-04 2.62e-05 -1.68e-04 -1.43e-04 -1.23e-03 5.76e-05 -2.00e-04
## 996 8.65e-04 2.70e-04 1.69e-04 -9.92e-04 3.71e-03 2.98e-04 -1.12e-03
## 997 -3.01e-06 4.35e-05 -2.02e-04 -1.45e-04 -2.32e-04 7.03e-05 -2.59e-03
## 998 -9.46e-03 -1.50e-03 3.25e-02 5.47e-04 -1.42e-02 -1.97e-03 1.86e-03
## 999 6.09e-03 1.20e-03 -9.49e-04 -9.36e-03 -1.63e-02 2.08e-03 -1.28e-02
## 1000 1.51e-03 -2.40e-04 7.24e-04 -1.32e-04 -9.07e-04 -2.82e-04 -3.78e-04
## 1001 -1.07e-02 -6.94e-05 -3.82e-03 4.93e-03 1.23e-02 -1.51e-04 8.23e-03
## 1002 1.54e-02 -1.52e-03 8.43e-03 -3.71e-04 -7.76e-03 -2.27e-03 -2.86e-03
## 1003 5.93e-03 -8.44e-04 3.71e-03 9.42e-04 -1.19e-03 -1.30e-03 5.43e-04
## 1004 3.69e-03 1.06e-05 7.67e-04 -2.61e-03 -5.19e-03 1.33e-04 -3.54e-03
## 1005 4.86e-03 -6.62e-04 2.14e-03 -8.46e-04 -3.46e-03 -7.55e-04 -1.69e-03
## 1006 5.32e-03 -3.97e-04 2.68e-03 -6.73e-04 -3.61e-03 -5.65e-04 -1.84e-03
## 1007 9.57e-04 -1.97e-04 5.36e-04 9.59e-05 -3.28e-04 -2.43e-04 -2.08e-05
## 1008 7.71e-04 1.81e-04 2.49e-04 -6.51e-04 3.50e-03 1.75e-04 -6.81e-04
## 1009 -1.24e-03 1.99e-04 -6.06e-04 8.41e-05 6.74e-04 2.43e-04 2.42e-04
## 1010 -3.01e-03 9.87e-05 -8.02e-04 1.73e-03 3.73e-03 3.55e-05 2.45e-03
## 1011 -5.77e-03 -1.47e-04 -1.85e-03 3.15e-03 7.80e-03 -3.19e-04 5.53e-03
## 1012 -3.85e-03 -5.39e-04 -2.86e-03 -2.21e-05 -1.63e-02 -9.90e-05 -1.63e-04
## 1013 6.80e-03 -7.80e-04 2.75e-03 -1.75e-03 -5.57e-03 -8.57e-04 -3.00e-03
## 1014 -2.39e-03 4.35e-04 -1.24e-03 -2.58e-05 1.09e-03 5.30e-04 2.87e-04
## 1015 -3.01e-03 9.87e-05 -8.02e-04 1.73e-03 3.73e-03 3.55e-05 2.45e-03
## 1016 4.52e-03 -8.11e-04 2.18e-03 -3.25e-04 -3.27e-03 -8.35e-04 -1.71e-03
## 1017 5.65e-04 9.04e-05 2.89e-04 -2.64e-04 3.32e-03 6.52e-05 -2.62e-04
## 1018 1.99e-03 -3.61e-04 1.02e-03 -1.74e-05 -1.03e-03 -4.25e-04 -3.60e-04
## 1019 -4.73e-03 -1.62e-03 1.90e-03 -6.06e-04 -1.53e-03 -6.14e-04 -8.88e-04
## 1020 -5.09e-02 -1.15e-02 1.23e-02 3.31e-03 3.73e-02 -3.82e-03 3.23e-03
## 1021 1.95e-02 5.80e-03 -6.02e-03 3.62e-03 8.19e-03 1.54e-03 6.00e-03
## 1022 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 1023 8.13e-04 4.16e-04 1.96e-03 1.19e-04 3.45e-04 9.45e-05 2.12e-04
## 1024 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 1025 -7.80e-03 -9.85e-02 4.35e-02 -1.92e-03 -1.94e-03 -8.95e-04 -1.66e-03
## 1026 -1.05e-02 -5.21e-04 -2.92e-03 6.71e-03 1.49e-02 -8.42e-04 1.06e-02
## 1027 7.56e-02 9.68e-04 -1.55e-01 -5.29e-03 -2.70e-02 2.86e-03 -1.67e-02
## 1028 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 1029 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 1030 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 1031 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 1032 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 1033 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 1034 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 1035 4.69e-04 -1.55e-02 -1.54e-03 -1.57e-04 -7.50e-05 1.49e-04 -2.07e-04
## 1036 -1.43e-02 -1.71e-01 7.53e-02 -3.68e-03 -4.11e-03 -1.25e-03 -3.82e-03
## 1037 2.18e-02 7.90e-03 -9.59e-03 1.82e-03 5.53e-03 3.37e-03 2.55e-03
## 1038 -7.52e-04 2.44e-02 2.28e-03 -2.67e-05 -2.84e-04 -1.30e-04 -4.11e-05
## 1039 -7.39e-03 1.14e-04 -2.92e-03 2.80e-03 8.35e-03 2.32e-05 5.64e-03
## 1040 1.06e-03 -1.06e-04 3.70e-04 -4.04e-04 -1.20e-03 -7.86e-05 -7.85e-04

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## 1041 6.59e-04 7.59e-04 -6.54e-04 1.04e-01 -5.24e-03 1.11e-03 -4.65e-03
## 1042 -2.29e-04 9.34e-05 3.20e-04 8.17e-06 -1.78e-04 1.18e-04 6.25e-03
## 1043 2.14e-02 1.10e-03 -5.18e-02 -4.01e-03 -1.29e-02 2.44e-03 -1.02e-02
## 1044 -6.45e-04 -9.39e-05 -5.43e-04 -9.46e-05 -3.30e-03 -1.55e-05 -7.27e-05
## 1045 2.00e-04 1.05e-05 2.11e-04 1.19e-04 1.21e-03 -2.41e-05 1.31e-04
## 1046 -5.16e-03 9.42e-04 -2.70e-03 -7.20e-05 2.30e-03 1.16e-03 5.71e-04
## 1047 1.05e-03 2.53e-04 9.10e-04 6.01e-05 6.55e-03 1.58e-04 -2.28e-04
## 1048 -1.72e-04 -1.06e-05 -1.58e-04 -6.50e-05 -8.56e-04 1.66e-05 -8.51e-05
## 1049 -2.46e-02 -5.22e-03 9.51e-02 4.57e-03 -3.53e-02 -7.31e-03 1.08e-02
## 1050 -3.78e-03 5.98e-04 -1.80e-03 3.46e-04 2.31e-03 6.97e-04 9.87e-04
## 1051 1.70e-03 4.41e-04 -7.29e-04 -3.62e-03 -7.19e-03 1.01e-03 -6.08e-03
## 1052 -5.76e-03 -9.52e-04 -3.96e-04 6.44e-03 1.23e-02 -1.49e-03 9.56e-03
## 1053 -1.40e-03 1.17e-04 -4.69e-04 5.80e-04 1.55e-03 9.13e-05 9.92e-04
## 1054 2.64e-04 -8.60e-05 -1.43e-04 -1.86e-02 9.53e-07 -1.18e-04 2.15e-04
## 1055 -1.81e-03 -7.57e-04 -6.43e-04 1.75e-03 -6.39e-03 -7.87e-04 2.43e-03
## 1056 1.45e-03 3.46e-04 1.87e-03 1.00e-03 1.41e-02 1.57e-04 2.60e-04
## 1057 -1.57e-03 7.10e-04 -4.75e-03 -3.93e-03 -5.69e-03 1.54e-03 -3.82e-02
## 1058 -3.31e-03 -3.44e-04 1.64e-02 -1.20e-03 -1.37e-03 -5.37e-04 -1.84e-02
## 1059 -1.07e-02 -2.00e-04 -3.58e-03 5.42e-03 1.27e-02 -2.95e-04 8.52e-03
## 1060 2.87e-03 1.20e-03 -1.56e-03 -3.35e-04 -1.19e-04 6.75e-04 -4.47e-04
## 1061 -4.45e-02 -1.79e-02 1.95e-02 4.83e-03 2.55e-03 -9.93e-03 6.34e-03
## 1062 -2.20e-04 9.08e-07 -4.09e-05 1.66e-04 3.59e-04 -1.33e-05 2.59e-04
## 1063 -3.67e-02 6.19e-05 7.30e-02 5.85e-04 9.86e-03 -4.93e-04 5.02e-03
## 1064 -3.21e-03 6.64e-04 -1.75e-03 -2.17e-04 1.49e-03 7.66e-04 4.47e-04
## 1065 2.55e-03 -2.20e-04 1.34e-03 -1.79e-04 -1.32e-03 -3.48e-04 -4.85e-04
## 1066 8.32e-02 -2.54e-03 -1.91e-01 -1.09e-03 -2.22e-02 1.79e-04 -1.22e-02
## 1067 3.18e-03 1.32e-03 -1.71e-03 -3.59e-04 -1.09e-04 7.35e-04 -4.64e-04
## 1068 -1.42e-02 -1.27e-03 7.08e-02 -9.47e-04 -1.85e-03 -2.40e-03 -7.40e-02
## 1069 -1.10e-02 -4.37e-03 4.69e-03 1.13e-03 5.03e-04 -2.38e-03 1.40e-03
## 1070 -2.77e-03 3.56e-04 -1.12e-03 7.03e-04 2.57e-03 3.36e-04 1.53e-03
## 1071 1.17e-03 4.66e-04 -5.86e-04 -1.12e-04 -3.87e-06 2.48e-04 -1.21e-04
## 1072 -1.11e-02 -4.32e-03 4.58e-03 1.07e-03 3.77e-04 -2.31e-03 1.23e-03
## 1073 1.26e-03 -4.68e-04 1.81e-03 2.11e-03 1.07e-02 -8.65e-04 2.99e-03
## 1074 5.16e-04 -7.02e-05 2.27e-04 -8.97e-05 -3.67e-04 -8.01e-05 -1.80e-04
## 1075 2.16e-03 2.45e-04 -1.25e-04 -2.81e-03 -5.52e-03 5.78e-04 -4.37e-03
## 1076 8.65e-03 -1.03e-03 5.05e-03 5.30e-04 -3.25e-03 -1.54e-03 -6.18e-04
## 1077 1.90e-03 -8.12e-05 8.48e-04 -4.82e-04 -1.55e-03 -1.26e-04 -8.72e-04
## 1078 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 1079 -1.17e-02 -4.92e-03 -2.45e-02 -1.11e-03 -4.31e-03 -7.64e-04 -3.43e-03
## 1080 6.13e-03 1.89e-03 -2.11e-03 -1.72e-03 -6.79e-03 1.13e-03 -2.49e-03
## 1081 -1.16e-02 -5.10e-03 -2.54e-02 -1.51e-03 -4.80e-03 -8.27e-04 -3.62e-03
## 1082 -2.81e-02 -1.32e-02 -6.00e-02 -2.32e-03 -7.96e-03 -3.29e-03 -5.32e-03
## 1083 -1.14e-02 -2.56e-03 2.22e-03 -9.12e-04 6.79e-03 -6.54e-04 -6.19e-04
## 1084 -7.08e-03 -2.96e-03 3.84e-03 8.18e-04 2.77e-04 -1.66e-03 1.08e-03
## 1085 7.82e-03 3.00e-03 -3.15e-03 -5.27e-05 6.94e-04 1.49e-03 -1.29e-04
## 1086 -8.12e-03 -2.85e-03 3.55e-03 -2.74e-03 -4.89e-03 -8.88e-04 -3.04e-03
## 1087 1.89e-02 7.78e-03 -1.00e-02 -1.50e-03 2.48e-04 4.21e-03 -2.04e-03
## 1088 -9.46e-05 -3.61e-05 3.76e-05 5.76e-06 -1.66e-06 -1.85e-05 6.11e-06
## 1089 -7.72e-02 -4.02e-02 -1.74e-01 1.10e-03 -1.51e-02 -1.20e-02 -6.19e-03
## 1090 1.21e-02 5.07e-03 -5.66e-03 -1.48e-03 -1.00e-03 2.90e-03 -2.14e-03
## 1091 -1.71e-03 -7.14e-04 9.30e-04 1.45e-04 -4.69e-06 -3.92e-04 2.09e-04
## 1092 -1.10e-02 -4.27e-03 4.51e-03 7.34e-04 -7.59e-05 -2.23e-03 8.73e-04
## 1093 3.77e-04 1.42e-04 -1.77e-04 1.55e-05 7.16e-05 6.59e-05 2.05e-05
## 1094 2.85e-02 1.43e-02 6.17e-02 -1.40e-03 4.27e-03 4.27e-03 1.73e-03

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## 1095 -1.83e-02 -7.10e-03 7.58e-03 -3.44e-04 -2.20e-03 -3.50e-03 -7.01e-06
## 1096 -1.04e-02 -4.22e-03 4.62e-03 8.61e-04 2.46e-04 -2.31e-03 1.26e-03
## 1097 -8.04e-03 -3.27e-03 4.20e-03 6.09e-04 -1.54e-04 -1.76e-03 7.99e-04
## 1098 -2.82e-03 3.18e-04 -1.12e-03 7.70e-04 2.42e-03 3.36e-04 1.36e-03
## 1099 -4.77e-03 2.78e-04 -2.26e-03 9.12e-04 3.56e-03 4.11e-04 1.92e-03
## 1100 -5.32e-04 -1.00e-05 -1.77e-04 2.79e-04 7.40e-04 -3.02e-05 5.34e-04
## 1101 -3.65e-03 -6.67e-04 -1.37e-04 4.34e-03 8.17e-03 -1.04e-03 6.36e-03
## 1102 -2.29e-04 3.92e-04 -4.16e-04 -9.62e-04 9.03e-04 5.87e-04 -1.81e-03
## 1103 -5.40e-04 -2.90e-04 -1.73e-03 2.77e-04 6.25e-04 -1.79e-04 -2.28e-02
## 1104 -7.50e-03 -3.10e-03 3.99e-03 8.33e-04 2.32e-04 -1.72e-03 1.06e-03
## 1105 2.68e-03 -2.69e-04 9.34e-04 -1.02e-03 -3.03e-03 -1.98e-04 -1.98e-03
## 1106 1.01e-03 -4.44e-05 8.95e-04 3.85e-04 7.27e-03 -1.95e-04 6.42e-04
## 1107 -4.35e-03 1.57e-04 -1.89e-03 1.24e-03 3.87e-03 2.22e-04 2.32e-03
## 1108 5.24e-02 2.51e-03 -1.12e-01 -1.11e-02 -2.98e-02 4.81e-03 -2.16e-02
## 1109 7.68e-03 3.03e-04 2.28e-03 -4.61e-03 -1.08e-02 5.47e-04 -7.66e-03
## 1110 -3.35e-03 3.66e-04 -1.05e-03 1.51e-03 4.88e-03 1.25e-04 3.54e-03
## 1111 1.33e-04 1.27e-04 5.32e-04 -7.64e-04 -9.54e-04 1.49e-04 1.30e-02
## 1112 -1.16e-03 -2.13e-05 -1.71e-04 9.78e-04 2.03e-03 -1.07e-04 1.49e-03
## 1113 7.22e-03 -7.43e-04 4.01e-03 -3.27e-05 -3.20e-03 -1.14e-03 -9.13e-04
## 1114 -1.37e-04 -3.81e-04 -3.84e-04 7.39e-05 -6.35e-03 -4.65e-04 1.08e-03
## 1115 2.20e-03 2.00e-04 4.46e-04 -1.81e-03 -4.01e-03 3.63e-04 -3.05e-03
## 1116 -2.74e-02 -7.76e-05 5.62e-02 7.38e-04 8.16e-03 -6.46e-04 4.65e-03
## 1117 1.45e-03 5.75e-04 -5.11e-04 -3.07e-03 -5.88e-03 9.91e-04 -4.99e-03
## 1118 -3.66e-03 1.87e-04 -1.69e-03 8.27e-04 3.07e-03 2.50e-04 1.80e-03
## 1119 2.61e-03 -3.47e-04 1.11e-03 -5.36e-04 -2.08e-03 -3.69e-04 -1.12e-03
## 1120 2.11e-03 2.38e-05 7.26e-04 -1.09e-03 -3.41e-03 1.77e-04 -2.62e-03
## 1121 1.21e-04 -5.14e-05 5.44e-04 5.97e-05 1.92e-04 -1.08e-04 8.10e-03
## 1122 -3.14e-03 -3.23e-04 -5.74e-04 2.68e-03 5.19e-03 -4.66e-04 3.79e-03
## 1123 -1.11e-03 2.03e-04 -5.89e-04 -3.68e-05 4.24e-04 2.58e-04 5.60e-05
## 1124 5.82e-04 1.10e-04 2.87e-04 -3.17e-04 3.65e-03 9.29e-05 -3.52e-04
## 1125 -7.74e-03 -3.22e-04 -2.26e-03 4.72e-03 1.10e-02 -5.86e-04 7.87e-03
## 1126 -4.15e-02 -3.61e-03 9.35e-02 1.52e-02 3.35e-02 -6.39e-03 2.62e-02
## 1127 4.09e-03 1.88e-03 -7.67e-04 -7.80e-03 6.06e-03 2.32e-03 -8.74e-03
## 1128 -1.86e-03 -5.54e-04 -1.19e-03 6.90e-04 -8.98e-03 -4.60e-04 1.19e-03
## 1129 -2.39e-03 7.40e-06 -8.91e-04 1.04e-03 3.05e-03 -6.14e-05 2.16e-03
## 1130 -1.94e-02 -5.73e-03 9.32e-02 6.18e-03 -2.95e-02 -8.63e-03 1.54e-02
## 1131 -1.76e-04 4.51e-05 -2.29e-04 -2.29e-04 -1.58e-03 9.03e-05 -3.15e-04
## 1132 3.80e-04 8.14e-05 1.52e-04 -2.70e-04 2.02e-03 7.49e-05 -2.89e-04
## 1133 -3.88e-03 6.05e-04 -1.79e-03 4.82e-04 2.74e-03 6.59e-04 1.37e-03
## 1134 -6.96e-03 2.76e-04 -3.06e-03 1.86e-03 5.90e-03 4.13e-04 3.43e-03
## 1135 -1.96e-02 -4.22e-03 8.01e-02 8.35e-03 -2.38e-02 -6.45e-03 1.26e-02
## 1136 2.03e-03 3.21e-04 1.71e-03 2.73e-04 1.07e-02 8.35e-05 1.38e-04
## 1137 -1.33e-05 -9.65e-07 -1.33e-04 -6.17e-05 -6.87e-05 1.22e-05 -1.53e-03
## 1138 -3.19e-03 -4.37e-05 -1.10e-03 1.57e-03 3.92e-03 -9.48e-05 2.68e-03
## 1139 4.29e-04 2.02e-04 -1.38e-04 -4.45e-04 1.62e-03 7.63e-05 8.22e-05
## 1140 -2.33e-04 -1.32e-04 2.89e-04 3.20e-02 6.72e-04 -1.54e-04 4.48e-04
## 1141 4.29e-04 2.02e-04 -1.38e-04 -4.45e-04 1.62e-03 7.63e-05 8.22e-05
## 1142 -1.26e-05 -1.06e-04 -1.10e-03 -6.06e-02 -8.77e-04 -9.98e-06 -4.27e-04
## 1143 1.61e-02 6.39e-03 -6.88e-03 -1.21e-03 -1.56e-04 3.42e-03 -1.64e-03
## 1144 -2.69e-03 -8.39e-04 7.39e-04 -7.54e-04 -1.36e-03 -2.26e-04 -9.65e-04
## 1145 -5.70e-03 2.36e-04 -2.53e-03 1.48e-03 4.72e-03 3.61e-04 2.70e-03
## 1146 3.10e-04 1.57e-05 3.03e-04 1.02e-04 3.40e-03 -1.48e-05 7.23e-05
## 1147 1.07e-02 4.32e-03 -5.52e-03 -1.11e-03 -1.98e-04 2.36e-03 -1.32e-03
## 1148 1.68e-02 6.79e-03 -7.38e-03 -1.83e-03 -9.58e-04 3.75e-03 -2.39e-03

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## 1149 3.01e-02 1.65e-02 6.31e-02 -4.48e-03 -1.81e-03 6.54e-03 -4.06e-03
## 1150 -1.06e-02 -4.14e-03 4.42e-03 4.44e-04 -4.01e-04 -2.14e-03 6.50e-04
## 1151 -5.11e-03 -2.02e-03 2.18e-03 2.36e-04 -1.52e-04 -1.06e-03 3.72e-04
## 1152 4.95e-03 1.78e-03 -1.79e-03 4.91e-04 1.20e-03 7.61e-04 5.84e-04
## 1153 5.38e-03 2.08e-03 -2.63e-03 1.83e-04 9.46e-04 9.94e-04 1.81e-04
## 1154 1.46e-02 5.07e-03 -5.99e-03 1.84e-03 4.64e-03 1.96e-03 2.62e-03
## 1155 1.22e-02 4.67e-03 -4.92e-03 -8.67e-05 1.07e-03 2.32e-03 -2.13e-04
## 1156 8.35e-03 3.16e-03 -3.90e-03 -1.78e-04 8.76e-04 1.54e-03 -5.71e-05
## 1157 4.18e-02 5.35e-04 -8.58e-02 -2.93e-03 -1.49e-02 1.58e-03 -9.23e-03
## 1158 1.14e-03 3.99e-04 -4.69e-04 7.04e-05 2.62e-04 1.66e-04 1.31e-04
## 1159 -5.17e-03 -1.49e-03 1.61e-03 9.22e-04 5.05e-03 -7.93e-04 1.47e-03
## 1160 -1.44e-02 -5.64e-03 6.05e-03 -2.42e-04 -1.68e-03 -2.81e-03 7.98e-05
## 1161 6.78e-03 2.41e-03 -2.41e-03 8.95e-04 1.95e-03 9.88e-04 1.05e-03
## 1162 1.24e-02 3.50e-03 -4.46e-03 -2.44e-03 -1.24e-02 1.84e-03 -3.59e-03
## 1163 4.18e-03 5.49e-04 -1.57e-04 -5.29e-03 -9.51e-03 1.02e-03 -7.29e-03
## 1164 1.61e-03 5.01e-04 3.15e-04 -1.84e-03 6.90e-03 5.53e-04 -2.08e-03
## 1165 -1.74e-03 -1.06e-04 -4.46e-04 1.21e-03 2.82e-03 -2.03e-04 2.10e-03
## 1166 -3.12e-03 -3.81e-04 -2.60e-03 -5.25e-04 -1.51e-02 2.12e-05 -6.01e-04
## 1167 -2.56e-03 -1.57e-04 -2.35e-03 -9.67e-04 -1.27e-02 2.46e-04 -1.27e-03
## 1168 -9.70e-04 2.23e-04 -2.07e-03 -6.22e-02 -2.69e-03 6.12e-04 -2.42e-03
## 1169 2.23e-03 1.14e-03 -2.64e-04 -4.25e-03 8.56e-03 1.44e-03 -5.22e-03
## 1170 4.19e-03 4.23e-04 4.66e-03 2.59e-03 2.93e-02 -2.53e-04 2.21e-03
## 1171 -5.44e-03 5.23e-04 -2.95e-03 1.99e-04 2.95e-03 7.60e-04 1.21e-03
## 1172 4.40e-03 3.53e-04 2.61e-04 -4.61e-03 -8.54e-03 7.12e-04 -6.35e-03
## 1173 2.44e-03 -1.06e-04 1.08e-03 -6.71e-04 -2.69e-03 -6.12e-05 -1.85e-03
## 1174 1.28e-03 6.88e-04 -1.31e-04 -2.48e-03 6.08e-03 8.78e-04 -3.15e-03
## 1175 5.36e-04 4.16e-04 -1.04e-04 -1.33e-03 4.80e-03 5.62e-04 -1.93e-03
## 1176 -2.12e-03 1.60e-04 -7.26e-04 8.44e-04 2.09e-03 1.61e-04 1.24e-03
## 1177 -2.67e-03 4.30e-04 -1.31e-03 1.59e-04 1.38e-03 5.31e-04 4.59e-04
## 1178 -1.12e-05 1.78e-05 -6.08e-05 -6.27e-05 -9.89e-05 2.91e-05 -5.69e-04
## 1179 -1.04e-03 1.90e-04 -5.50e-04 -3.10e-05 4.08e-04 2.40e-04 6.32e-05
## 1180 -4.97e-03 -3.47e-04 -1.19e-03 3.66e-03 8.49e-03 -6.72e-04 6.41e-03
## 1181 -5.56e-03 -3.88e-04 -1.33e-03 4.09e-03 9.49e-03 -7.51e-04 7.16e-03
## 1182 -5.28e-05 -2.88e-05 6.16e-04 -1.98e-05 4.62e-05 -5.73e-05 1.14e-02
## 1183 5.79e-04 2.13e-04 1.58e-04 -6.64e-04 4.00e-03 2.49e-04 -8.82e-04
## 1184 1.24e-04 6.56e-06 8.02e-05 -1.23e-05 6.92e-04 -5.75e-06 1.10e-05
## 1185 1.74e-03 1.03e-03 -8.19e-04 8.52e-02 -7.00e-03 1.38e-03 -5.77e-03
## 1186 -9.46e-04 1.28e-04 -1.15e-03 -1.05e-03 -5.41e-03 3.67e-04 -1.42e-03
## 1187 -1.07e-02 -7.17e-05 -3.81e-03 4.93e-03 1.23e-02 -1.57e-04 8.23e-03
## 1188 -2.25e-03 -6.21e-04 -1.12e-03 1.25e-03 -7.67e-03 -5.19e-04 1.55e-03
## 1189 -5.77e-03 -1.47e-04 -1.85e-03 3.15e-03 7.80e-03 -3.19e-04 5.53e-03
## 1190 -6.29e-03 1.59e-04 -2.60e-03 2.09e-03 6.38e-03 1.64e-04 4.10e-03
## 1191 -3.47e-03 -8.86e-05 -1.12e-03 1.90e-03 4.70e-03 -1.92e-04 3.33e-03
## 1192 3.76e-03 -6.04e-04 1.85e-03 -2.24e-04 -1.95e-03 -7.46e-04 -6.46e-04
## 1193 -8.48e-04 1.57e-04 -9.15e-04 -7.50e-04 -5.96e-03 3.44e-04 -1.16e-03
## 1194 -9.81e-04 -2.62e-04 -5.55e-04 4.32e-04 -3.84e-03 -2.09e-04 5.82e-04
## 1195 -2.03e-03 3.26e-04 -9.97e-04 1.21e-04 1.05e-03 4.03e-04 3.49e-04
## 1196 3.36e-03 -7.68e-04 2.06e-03 7.27e-04 -4.13e-04 -1.01e-03 6.09e-04
## 1197 6.98e-04 -1.10e-04 3.26e-04 -7.86e-05 -4.70e-04 -1.22e-04 -2.23e-04
## 1198 -2.03e-03 3.26e-04 -9.97e-04 1.21e-04 1.05e-03 4.03e-04 3.49e-04
## 1199 3.37e-04 -3.04e-05 1.21e-04 -1.22e-04 -3.32e-04 -2.92e-05 -2.00e-04
## 1200 -2.45e-03 -2.92e-04 -2.78e-03 -1.54e-03 -1.81e-02 9.40e-05 -1.18e-03
## 1201 -4.19e-02 9.03e-04 9.50e-02 2.27e-03 1.33e-02 -5.30e-04 7.78e-03
## 1202 -2.34e-04 1.03e-05 -2.07e-04 -8.88e-05 -1.68e-03 4.50e-05 -1.48e-04

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## 1203 2.92e-02 -1.57e-03 1.35e-02 -6.59e-03 -2.81e-02 -1.52e-03 -1.81e-02
## 1204 -4.34e-03 2.21e-04 -2.00e-03 9.79e-04 3.63e-03 2.95e-04 2.13e-03
## 1205 4.57e-03 -1.79e-04 2.00e-03 -1.28e-03 -4.49e-03 -1.81e-04 -2.88e-03
## 1206 6.17e-04 -1.13e-04 6.96e-04 5.82e-04 4.86e-03 -2.49e-04 8.51e-04
## 1207 3.80e-04 3.79e-05 2.91e-04 -1.11e-05 3.30e-03 9.72e-06 -3.03e-05
## 1208 -7.90e-04 -2.45e-04 -3.78e-04 4.98e-04 -2.83e-03 -2.20e-04 6.57e-04
## 1209 6.50e-04 1.66e-04 2.37e-04 -5.37e-04 3.73e-03 1.68e-04 -6.26e-04
## 1210 1.10e-04 -6.56e-05 8.08e-04 5.66e-05 2.22e-04 -1.36e-04 1.28e-02
## 1211 -8.11e-03 5.38e-04 -3.96e-03 1.24e-03 5.22e-03 8.59e-04 2.47e-03
## 1212 -1.30e-03 8.25e-05 -1.13e-03 -5.10e-04 -8.37e-03 2.89e-04 -9.34e-04
## 1213 1.83e-03 -1.15e-04 8.78e-04 -3.33e-04 -1.53e-03 -1.38e-04 -9.13e-04
## 1214 -3.86e-03 8.64e-05 -9.15e-04 2.47e-03 5.32e-03 -5.53e-05 3.64e-03
## 1215 2.44e-02 -9.19e-04 1.06e-02 -6.74e-03 -2.12e-02 -1.34e-03 -1.25e-02
## 1216 4.95e-06 -1.26e-07 -3.51e-05 -1.76e-03 -4.38e-05 3.45e-06 -2.68e-05
## 1217 -1.13e-03 6.21e-05 -5.27e-04 2.32e-04 8.85e-04 8.84e-05 4.96e-04
## 1218 9.27e-03 -9.65e-04 5.16e-03 1.54e-05 -3.93e-03 -1.50e-03 -9.98e-04
## 1219 1.09e-05 -3.02e-07 9.82e-06 4.05e-06 8.55e-05 -1.83e-06 6.17e-06
## 1220 -3.75e-02 1.11e-03 8.67e-02 5.80e-04 1.02e-02 -1.62e-04 5.76e-03
## 1221 -5.59e-05 -7.30e-05 3.51e-04 2.57e-04 3.93e-04 -1.12e-04 5.00e-03
## 1222 -6.90e-04 7.33e-06 -1.41e-04 4.92e-04 1.06e-03 -3.03e-05 7.54e-04
## 1223 -7.97e-03 -7.50e-05 -2.80e-03 3.77e-03 9.42e-03 -1.63e-04 6.35e-03
## 1224 -1.57e-03 3.52e-05 -3.72e-04 1.00e-03 2.17e-03 -2.25e-05 1.48e-03
## 1225 1.05e-03 -9.93e-05 5.67e-04 -4.77e-05 -5.99e-04 -1.42e-04 -2.63e-04
## 1226 -1.21e-03 1.57e-04 -3.72e-03 -1.84e-03 -2.49e-03 6.68e-04 -3.64e-02
## 1227 1.98e-02 6.06e-03 -6.54e-03 4.20e-03 8.93e-03 1.66e-03 6.33e-03
## 1228 2.53e-02 6.21e-03 -7.11e-03 -2.72e-03 -2.08e-02 2.51e-03 -3.46e-03
## 1229 3.22e-04 8.20e-05 -8.24e-05 2.12e-06 -2.39e-04 3.13e-05 -2.23e-05
## 1230 -6.45e-03 -2.41e-03 2.47e-03 1.73e-04 -4.30e-04 -1.18e-03 1.37e-04
## 1231 1.08e-02 3.05e-03 -3.12e-03 3.43e-03 6.52e-03 5.13e-04 4.89e-03
## 1232 -1.03e-03 -3.47e-05 -3.20e-03 -1.05e-03 -1.31e-03 3.46e-04 -3.41e-02
## 1233 2.51e-03 -1.09e-04 6.87e-04 -1.40e-03 -3.19e-03 -3.87e-05 -2.13e-03
## 1234 3.73e-03 -1.98e-04 1.01e-03 -2.08e-03 -5.05e-03 -4.09e-05 -3.48e-03
## 1235 -3.24e-03 5.13e-04 -1.54e-03 3.06e-04 2.01e-03 5.94e-04 8.71e-04
## 1236 -1.52e-03 -1.70e-04 -1.44e-03 -5.47e-04 -8.71e-03 4.73e-05 -5.14e-04
## 1237 -5.46e-03 -1.72e-03 1.52e-03 -1.18e-03 -2.29e-03 -5.23e-04 -1.60e-03
## 1238 -2.44e-03 -7.53e-04 6.50e-04 -6.09e-04 -1.14e-03 -2.07e-04 -8.17e-04
## 1239 1.65e-02 5.17e-03 -5.57e-03 1.93e-03 5.29e-03 1.71e-03 3.63e-03
## 1240 -3.36e-03 3.59e-04 -1.26e-03 1.08e-03 3.31e-03 3.29e-04 2.02e-03
## 1241 -2.59e-03 3.53e-04 -1.14e-03 4.50e-04 1.84e-03 4.02e-04 9.02e-04
## 1242 2.47e-02 9.03e-03 -1.09e-02 4.92e-04 4.12e-03 4.10e-03 1.30e-03
## 1243 -7.99e-03 -2.52e-03 2.18e-03 -8.05e-04 -2.13e-03 -8.86e-04 -1.48e-03
## 1244 -1.07e-01 -8.70e-03 -1.96e-02 -3.52e-02 -7.37e-02 1.53e-02 -8.00e-02
## 1245 1.83e-02 6.08e-03 -6.91e-03 1.89e-03 5.36e-03 2.26e-03 3.26e-03
## 1246 2.25e-03 1.01e-05 4.17e-04 -1.71e-03 -3.53e-03 1.32e-04 -2.51e-03
## 1247 8.81e-04 1.58e-04 3.76e-04 -5.40e-04 4.37e-03 1.28e-04 -5.19e-04
## 1248 1.00e-03 3.13e-04 1.97e-04 -1.15e-03 4.31e-03 3.46e-04 -1.30e-03
## 1249 -5.85e-04 1.42e-04 -6.82e-04 -6.43e-04 -4.14e-03 2.88e-04 -9.77e-04
## 1250 4.84e-03 -2.86e-04 2.30e-03 -9.07e-04 -3.56e-03 -4.26e-04 -1.90e-03
## 1251 -2.60e-04 9.69e-05 -3.74e-04 -4.38e-04 -2.21e-03 1.79e-04 -6.20e-04
## 1252 -2.45e-04 -2.74e-04 -4.92e-04 7.31e-04 1.16e-03 -2.99e-04 -9.19e-03
## 1253 -5.37e-03 -3.28e-04 -1.38e-03 3.74e-03 8.70e-03 -6.27e-04 6.47e-03
## 1254 4.05e-03 6.98e-04 1.96e-04 -4.95e-03 -1.25e-02 1.62e-03 -1.06e-02
## 1255 -7.05e-03 -3.50e-04 -1.96e-03 4.50e-03 9.99e-03 -5.65e-04 7.09e-03
## 1256 -2.26e-03 -7.70e-04 -1.42e-03 1.00e-03 -1.16e-02 -6.91e-04 1.82e-03

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## 1257 1.14e-03 4.43e-04 2.02e-04 -1.49e-03 6.62e-03 5.25e-04 -1.89e-03
## 1258 -2.23e-03 -2.77e-04 -3.12e-04 2.18e-03 5.03e-03 -5.55e-04 4.04e-03
## 1259 -4.79e-03 7.52e-04 -2.24e-03 5.39e-04 3.22e-03 8.40e-04 1.53e-03
## 1260 8.57e-04 4.59e-04 -3.50e-05 -1.59e-03 4.91e-03 5.86e-04 -2.08e-03
## 1261 -1.14e-02 -5.73e-04 -3.16e-03 7.17e-03 1.47e-02 -7.10e-04 9.93e-03
## 1262 -8.67e-04 1.20e-04 -3.90e-04 1.34e-04 5.71e-04 1.42e-04 2.58e-04
## 1263 9.50e-04 6.18e-05 7.77e-05 -9.45e-04 -1.79e-03 1.37e-04 -1.33e-03
## 1264 2.49e-03 4.34e-04 1.51e-03 -9.23e-04 1.94e-02 3.44e-04 -1.22e-03
## 1265 -3.66e-03 -2.69e-04 -8.55e-04 2.76e-03 6.39e-03 -5.23e-04 4.85e-03
## 1266 -9.61e-03 -1.20e-04 -3.32e-03 4.68e-03 1.17e-02 -2.60e-04 7.95e-03
## 1267 -1.52e-03 -5.22e-04 -1.37e-03 5.49e-05 -1.14e-02 -4.32e-04 8.58e-04
## 1268 -9.12e-03 -3.69e-03 4.04e-03 7.52e-04 2.11e-04 -2.02e-03 1.10e-03
## 1269 -4.77e-03 -1.68e-03 1.67e-03 -9.46e-04 -1.80e-03 -6.34e-04 -1.06e-03
## 1270 3.48e-03 1.39e-03 -1.77e-03 -1.31e-04 2.58e-04 7.14e-04 -1.76e-04
## 1271 7.64e-03 2.91e-03 -3.05e-03 -3.77e-05 7.06e-04 1.44e-03 -8.77e-05
## 1272 3.22e-04 -5.89e-05 1.70e-04 8.11e-06 -1.32e-04 -7.37e-05 -2.44e-05
## 1273 -4.35e-03 -1.59e-03 1.61e-03 -2.83e-04 -8.42e-04 -7.11e-04 -3.37e-04
## 1274 5.13e-02 1.90e-02 8.10e-02 -1.47e-02 -7.35e-02 7.54e-03 -2.14e-02
## 1275 -7.22e-03 -2.12e-03 2.32e-03 1.33e-03 7.19e-03 -1.15e-03 2.17e-03
## 1276 -1.08e-02 -2.70e-03 2.65e-03 -1.29e-04 7.82e-03 -9.88e-04 5.78e-04
## 1277 6.42e-03 2.30e-03 -2.76e-03 3.53e-04 1.39e-03 9.94e-04 6.10e-04
## 1278 1.44e-02 5.02e-03 -5.88e-03 8.97e-04 3.32e-03 2.08e-03 1.68e-03
## 1279 1.44e-02 5.10e-03 -6.02e-03 4.10e-04 2.64e-03 2.22e-03 1.10e-03
## 1280 2.58e-02 7.21e-03 -9.20e-03 -4.45e-03 -2.52e-02 3.68e-03 -6.81e-03
## 1281 3.31e-02 1.73e-02 7.09e-02 -1.38e-03 3.15e-03 5.92e-03 9.01e-05
## 1282 1.71e-02 4.86e-03 -4.70e-03 1.87e-03 5.50e-03 1.32e-03 4.33e-03
## 1283 1.23e-02 -1.13e-03 6.57e-03 -7.48e-04 -7.60e-03 -1.55e-03 -3.65e-03
## 1284 1.59e-03 1.56e-04 2.67e-05 -1.82e-03 -3.39e-03 3.17e-04 -2.57e-03
## 1285 1.96e-03 1.50e-03 -1.02e-03 -5.65e-03 6.44e-03 2.01e-03 -7.22e-03
## 1286 -5.77e-03 2.16e-04 -2.51e-03 1.66e-03 5.80e-03 2.04e-04 3.76e-03
## 1287 5.24e-03 -2.31e-04 2.34e-03 -1.35e-03 -4.83e-03 -2.70e-04 -3.00e-03
## 1288 -4.89e-05 -1.12e-05 -5.05e-05 -1.57e-05 -3.67e-04 -5.78e-06 9.26e-07
## 1289 5.76e-02 3.62e-03 -1.21e-01 -1.64e-02 -3.78e-02 6.36e-03 -2.78e-02
## 1290 2.41e-03 -1.61e-04 1.18e-03 -3.92e-04 -1.88e-03 -2.09e-04 -1.07e-03
## 1291 8.13e-02 1.78e-03 -1.77e-01 -7.55e-03 -3.38e-02 4.69e-03 -2.32e-02
## 1292 -5.58e-03 1.27e-03 -3.41e-03 -1.21e-03 6.83e-04 1.67e-03 -1.01e-03
## 1293 -1.26e-03 -2.88e-04 -1.30e-03 -4.05e-04 -9.47e-03 -1.49e-04 2.39e-05
## 1294 8.70e-03 3.00e-03 -3.45e-03 3.16e-04 1.72e-03 1.25e-03 8.55e-04
## 1295 3.02e-03 8.14e-04 -1.01e-03 -4.81e-04 -2.83e-03 3.94e-04 -6.99e-04
## 1296 -3.63e-03 3.19e-04 -1.91e-03 2.79e-04 2.42e-03 4.23e-04 1.25e-03
## 1297 -6.24e-04 6.24e-04 -2.49e-03 -2.05e-03 -3.37e-03 1.06e-03 -2.51e-02
## 1298 -1.27e-03 -1.31e-04 -2.21e-03 -8.02e-05 -1.53e-04 1.48e-04 -2.30e-02
## 1299 2.97e-05 -2.79e-05 1.57e-04 2.19e-02 4.84e-05 -3.50e-05 1.14e-05
## 1300 -4.62e-04 2.50e-03 -3.24e-03 -8.29e-03 9.16e-03 3.85e-03 -1.30e-02
## 1301 -9.43e-05 -3.21e-05 -5.95e-05 4.18e-05 -4.86e-04 -2.88e-05 7.59e-05
## 1302 7.99e-04 8.08e-04 -5.14e-04 -2.78e-03 5.72e-03 1.12e-03 -3.90e-03
## 1303 -6.90e-04 6.08e-05 -3.64e-04 5.30e-05 4.60e-04 8.05e-05 2.38e-04
## 1304 5.39e-02 -7.72e-04 -1.05e-01 1.79e-03 -1.03e-02 -3.78e-04 -3.53e-03
## 1305 1.07e-03 3.55e-04 2.49e-04 -1.22e-03 5.72e-03 4.00e-04 -1.47e-03
## 1306 6.92e-04 -8.97e-06 7.86e-04 5.62e-04 4.24e-03 -1.49e-04 6.72e-04
## 1307 -2.26e-03 1.48e-04 -6.16e-04 1.24e-03 3.25e-03 1.98e-05 2.30e-03
## 1308 1.76e-03 5.95e-04 1.58e-04 -2.34e-03 5.56e-03 6.75e-04 -2.57e-03
## 1309 -1.03e-03 -1.92e-04 -1.03e-03 -3.44e-04 -7.06e-03 -6.70e-05 -1.11e-04
## 1310 -3.77e-03 -5.49e-04 -3.17e-03 -5.53e-04 -1.93e-02 -9.07e-05 -4.25e-04

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## 1311 -2.29e-03 -2.85e-04 -2.19e-03 -8.14e-04 -1.35e-02 3.43e-05 -6.85e-04
## 1312 1.59e-02 -1.06e-03 7.75e-03 -2.58e-03 -1.24e-02 -1.37e-03 -7.06e-03
## 1313 -5.90e-03 2.56e-04 -5.49e-03 -3.21e-03 -2.43e-02 1.41e-03 -5.28e-03
## 1314 3.03e-03 7.02e-04 -1.65e-04 -4.33e-03 -8.99e-03 1.27e-03 -7.43e-03
## 1315 -1.84e-06 5.19e-05 -1.10e-04 -3.65e-03 -2.94e-04 7.69e-05 -2.56e-04
## 1316 -1.83e-04 -9.59e-05 -5.29e-05 2.22e-04 -7.25e-04 -1.07e-04 3.29e-04
## 1317 -1.28e-04 3.41e-05 -1.79e-04 -1.84e-04 -1.32e-03 6.75e-05 -2.40e-04
## 1318 -7.75e-04 -2.23e-04 -6.85e-04 -1.20e-05 -5.27e-03 -1.63e-04 2.89e-04
## 1319 8.72e-04 9.89e-05 -5.04e-05 -1.14e-03 -2.23e-03 2.34e-04 -1.77e-03
## 1320 6.18e-04 1.40e-04 2.04e-04 -5.09e-04 2.77e-03 1.34e-04 -5.25e-04
## 1321 -6.48e-03 -8.50e-04 -8.40e-04 6.39e-03 1.32e-02 -1.44e-03 1.02e-02
## 1322 6.83e-04 2.48e-04 1.37e-04 -8.41e-04 3.81e-03 2.88e-04 -1.04e-03
## 1323 3.75e-04 1.14e-04 1.81e-04 -2.31e-04 1.33e-03 1.01e-04 -3.01e-04
## 1324 -2.81e-02 -5.50e-03 9.89e-02 5.76e-03 -3.63e-02 -7.43e-03 1.10e-02
## 1325 1.30e-03 -2.98e-04 7.98e-04 2.81e-04 -1.62e-04 -3.90e-04 2.34e-04
## 1326 2.60e-02 -2.46e-03 1.40e-02 -1.18e-03 -1.48e-02 -3.51e-03 -6.50e-03
## 1327 -1.91e-03 -8.68e-04 -5.18e-04 2.19e-03 -6.02e-03 -9.38e-04 2.98e-03
## 1328 2.31e-03 2.69e-04 -6.67e-05 -2.87e-03 -5.38e-03 5.52e-04 -4.16e-03
## 1329 -6.84e-04 -2.34e-04 -5.11e-04 1.83e-04 -4.20e-03 -2.03e-04 4.79e-04
## 1330 1.99e-03 2.31e-04 -5.73e-05 -2.47e-03 -4.62e-03 4.74e-04 -3.57e-03
## 1331 -1.43e-02 -1.33e-03 4.80e-02 -3.24e-03 -2.76e-02 -1.56e-03 -2.34e-03
## 1332 3.98e-03 -4.57e-04 2.29e-03 1.50e-04 -1.82e-03 -6.53e-04 -6.03e-04
## 1333 -5.62e-03 2.28e-04 -2.48e-03 1.48e-03 4.71e-03 3.45e-04 2.71e-03
## 1334 -1.11e-03 3.78e-05 -4.76e-04 3.13e-04 8.92e-04 6.83e-05 4.92e-04
## 1335 -1.63e-02 -3.22e-03 8.60e-02 5.96e-03 8.22e-03 -5.47e-03 -7.71e-02
## 1336 8.12e-04 -4.48e-05 3.80e-04 -1.67e-04 -6.38e-04 -6.37e-05 -3.58e-04
## 1337 1.17e-03 -1.86e-04 5.60e-04 -1.02e-04 -7.02e-04 -2.18e-04 -2.92e-04
## 1338 -3.22e-03 -8.21e-05 -1.03e-03 1.76e-03 4.35e-03 -1.78e-04 3.09e-03
## 1339 -1.13e-04 4.06e-05 5.57e-04 -3.09e-04 -3.81e-04 5.20e-05 1.27e-02
## 1340 -4.46e-03 8.10e-04 -2.28e-03 3.90e-05 2.31e-03 9.52e-04 8.08e-04
## 1341 -2.28e-03 1.19e-04 -1.05e-03 5.01e-04 1.87e-03 1.62e-04 1.08e-03
## 1342 1.06e-03 -1.06e-04 3.70e-04 -4.04e-04 -1.20e-03 -7.86e-05 -7.85e-04
## 1343 8.38e-05 8.80e-05 -2.93e-04 -3.49e-04 -5.06e-04 1.28e-04 -3.63e-03
## 1344 1.11e-04 2.39e-05 6.60e-05 -5.13e-05 9.50e-04 2.21e-05 -7.59e-05
## 1345 -2.57e-03 1.82e-04 -1.27e-03 3.70e-04 1.87e-03 2.48e-04 1.01e-03
## 1346 3.76e-04 8.39e-05 1.77e-04 -2.38e-04 2.53e-03 7.94e-05 -2.90e-04
## 1347 -1.67e-03 -4.96e-04 -1.07e-03 6.17e-04 -8.04e-03 -4.12e-04 1.06e-03
## 1348 1.60e-04 3.88e-05 1.39e-04 9.20e-06 1.00e-03 2.42e-05 -3.49e-05
## 1349 9.73e-04 1.42e-04 8.18e-04 1.43e-04 4.98e-03 2.34e-05 1.10e-04
## 1350 3.01e-04 5.31e-06 2.84e-04 1.04e-04 2.90e-03 -2.95e-05 1.12e-04
## 1351 4.92e-03 7.57e-04 -2.89e-04 -6.48e-03 -1.11e-02 1.27e-03 -8.48e-03
## 1352 -4.86e-02 9.75e-04 1.11e-01 2.83e-03 1.59e-02 -7.90e-04 9.59e-03
## 1353 -3.37e-03 3.28e-04 -1.84e-03 1.05e-04 1.77e-03 4.83e-04 6.96e-04
## 1354 -8.04e-04 1.06e-04 -1.00e-03 -9.20e-04 -4.79e-03 3.10e-04 -1.22e-03
## 1355 1.67e-03 -8.10e-04 2.71e-03 3.55e-03 1.48e-02 -1.43e-03 4.98e-03
## 1356 9.72e-07 -2.27e-07 -7.71e-07 -7.83e-08 -2.72e-05 8.24e-07 -3.07e-06
## 1357 -2.85e-03 -6.21e-04 -2.12e-03 2.84e-04 -1.42e-02 -3.71e-04 6.96e-04
## 1358 -1.23e-02 2.12e-04 -4.91e-03 4.33e-03 1.11e-02 4.56e-04 6.49e-03
## 1359 -3.25e-03 -1.04e-03 9.44e-04 -1.13e-03 -1.93e-03 -2.64e-04 -1.34e-03
## 1360 -7.40e-04 -2.20e-04 1.80e-04 -1.89e-04 -3.56e-04 -5.39e-05 -2.65e-04
## 1361 4.30e-03 8.12e-05 1.43e-03 -2.26e-03 -6.00e-03 2.44e-04 -4.33e-03
## 1362 2.48e-04 3.54e-05 1.91e-04 -2.49e-05 2.43e-03 2.26e-05 -6.89e-05
## 1363 2.57e-03 -1.41e-03 1.00e-02 8.45e-03 1.19e-02 -3.06e-03 8.53e-02
## 1364 1.78e-03 1.12e-03 -5.44e-04 -4.21e-03 6.38e-03 1.47e-03 -5.29e-03

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## 1365 7.99e-04 2.47e-04 2.01e-04 -8.55e-04 4.12e-03 2.72e-04 -1.01e-03
## 1366 2.64e-03 1.10e-03 2.27e-04 -3.90e-03 1.31e-02 1.33e-03 -4.81e-03
## 1367 -2.31e-04 -3.53e-05 -2.26e-04 -7.99e-05 -1.47e-03 -4.98e-06 -4.90e-05
## 1368 -1.38e-03 1.31e-05 -5.31e-04 5.61e-04 1.66e-03 -1.49e-05 1.15e-03
## 1369 -6.86e-04 2.60e-04 2.91e-04 -1.10e-03 -1.68e-03 4.45e-04 1.81e-02
## 1370 1.08e-03 4.81e-04 5.50e-04 -1.05e-03 1.37e-02 5.94e-04 -1.93e-03
## 1371 -2.29e-03 -5.77e-04 -1.70e-03 3.34e-04 -1.21e-02 -4.03e-04 8.49e-04
## 1372 -1.08e-03 2.76e-04 -2.42e-03 -3.06e-03 -1.43e-02 6.94e-04 -3.12e-03
## 1373 -6.51e-03 2.26e-05 -2.44e-03 2.70e-03 6.81e-03 4.78e-05 4.35e-03
## 1374 -3.85e-03 5.14e-04 -1.65e-03 7.75e-04 3.03e-03 5.53e-04 1.61e-03
## 1375 1.26e-03 -1.24e-04 6.87e-04 -3.03e-05 -6.32e-04 -1.85e-04 -2.33e-04
## 1376 -1.19e-04 -1.97e-05 -1.42e-04 -7.79e-05 -9.87e-04 -2.13e-06 -4.36e-05
## 1377 -1.97e-03 -7.94e-05 -5.77e-04 1.23e-03 3.21e-03 -2.06e-04 2.43e-03
## 1378 9.48e-04 3.14e-05 1.17e-03 8.51e-04 7.01e-03 -1.54e-04 8.44e-04
## 1379 -3.77e-02 1.69e-03 8.43e-02 -1.62e-03 6.69e-03 8.23e-04 2.35e-03
## 1380 7.93e-06 -1.67e-05 6.71e-05 5.69e-05 9.09e-05 -2.74e-05 7.44e-04
## 1381 1.23e-03 4.38e-04 1.28e-04 -1.66e-03 4.71e-03 5.06e-04 -1.89e-03
## 1382 2.91e-03 2.65e-04 5.90e-04 -2.39e-03 -5.30e-03 4.80e-04 -4.04e-03
## 1383 1.34e-04 6.99e-05 6.50e-05 -1.54e-04 1.89e-03 8.93e-05 -2.88e-04
## 1384 -3.14e-04 -8.19e-05 -2.03e-04 9.68e-05 -1.43e-03 -6.18e-05 1.55e-04
## 1385 -1.32e-04 2.49e-06 -2.14e-05 1.05e-04 2.50e-04 -1.14e-05 1.91e-04
## 1386 -3.31e-02 1.54e-03 7.29e-02 -1.58e-03 5.43e-03 8.76e-04 1.56e-03
## 1387 -3.71e-03 -1.37e-04 -1.11e-03 2.26e-03 5.91e-03 -3.61e-04 4.44e-03
## 1388 -1.05e-04 1.43e-05 -4.63e-05 1.83e-05 7.48e-05 1.63e-05 3.66e-05
## 1389 3.33e-03 -5.24e-04 1.57e-03 -3.43e-04 -2.15e-03 -5.97e-04 -9.75e-04
## 1390 -4.23e-03 4.23e-04 -1.47e-03 1.61e-03 4.78e-03 3.12e-04 3.12e-03
## 1391 -3.82e-03 4.98e-04 -1.58e-03 8.93e-04 3.34e-03 4.96e-04 1.92e-03
## 1392 1.64e-03 -1.54e-04 8.80e-04 -7.91e-05 -9.47e-04 -2.18e-04 -4.24e-04
## 1393 -4.67e-04 3.66e-05 -2.38e-04 5.07e-05 2.93e-04 5.43e-05 1.38e-04
## 1394 -9.73e-03 -2.28e-04 -3.18e-03 5.08e-03 1.13e-02 -2.58e-04 7.43e-03
## 1395 -2.42e-04 -1.78e-05 -2.61e-04 -1.47e-04 -1.56e-03 2.29e-05 -1.45e-04
## 1396 2.03e-02 7.09e-03 -8.32e-03 1.25e-03 4.67e-03 2.94e-03 2.33e-03
## 1397 3.13e-03 -6.43e-04 1.78e-03 3.74e-04 -8.47e-04 -8.24e-04 1.49e-04
## 1398 1.50e-03 6.57e-04 8.34e-05 -2.18e-03 1.76e-03 7.34e-04 -2.54e-03
## 1399 6.08e-04 2.61e-04 8.31e-05 -8.71e-04 3.72e-03 3.18e-04 -1.13e-03
## 1400 2.17e-02 8.00e-03 -9.72e-03 3.71e-04 3.50e-03 3.68e-03 9.72e-04
## 1401 -8.97e-05 5.61e-05 -3.72e-04 -1.36e-04 -2.65e-04 1.05e-04 -4.87e-03
## 1402 -1.06e-03 4.43e-05 -4.70e-04 2.85e-04 1.01e-03 4.85e-05 6.38e-04
## 1403 1.33e-03 2.61e-04 1.50e-05 -1.70e-03 -3.64e-03 4.84e-04 -2.98e-03
## 1404 -2.19e-03 -3.20e-05 -2.20e-03 -1.26e-03 -1.16e-02 3.66e-04 -1.64e-03
## 1405 6.56e-03 1.33e-03 -1.04e-03 -1.01e-02 -1.74e-02 2.25e-03 -1.36e-02
## 1406 1.43e-03 1.35e-03 -9.12e-04 -4.79e-03 7.95e-03 1.85e-03 -6.51e-03
## 1407 8.59e-03 1.38e-05 -1.75e-02 -2.06e-04 -2.49e-03 1.79e-04 -1.38e-03
## 1408 -3.47e-02 1.47e-03 7.94e-02 -1.25e-03 6.85e-03 5.22e-04 2.95e-03
## 1409 -2.37e-02 4.00e-04 5.56e-02 1.60e-03 8.32e-03 -5.74e-04 5.31e-03
## 1410 5.99e-03 -1.37e-03 3.66e-03 1.28e-03 -8.18e-04 -1.78e-03 1.00e-03
## 1411 2.45e-02 1.79e-04 -8.52e-02 1.15e-02 1.67e-02 -4.39e-04 1.12e-01
## 1412 -7.37e-03 4.50e-04 -3.53e-03 1.32e-03 5.25e-03 6.83e-04 2.72e-03
## 1413 5.15e-03 -8.20e-04 2.48e-03 -4.18e-04 -3.00e-03 -9.74e-04 -1.20e-03
## 1414 -2.64e-04 -5.92e-05 9.90e-06 3.60e-04 6.69e-04 -9.33e-05 5.32e-04
## 1415 -2.78e-02 -5.17e-03 9.14e-02 1.82e-02 3.99e-02 -9.89e-03 3.60e-02
## 1416 2.32e-04 -9.58e-06 5.43e-05 -1.48e-04 -3.57e-04 5.15e-06 -2.57e-04
## 1417 1.81e-03 -3.19e-04 2.33e-03 2.07e-03 1.94e-02 -7.07e-04 2.56e-03
## 1418 2.15e-02 2.37e-03 -6.87e-02 2.19e-03 3.61e-02 2.81e-03 9.68e-04

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## 1419 9.72e-04 4.99e-04 5.46e-05 -1.64e-03 6.63e-03 6.33e-04 -2.22e-03
## 1420 -3.26e-03 1.83e-04 -1.01e-03 1.54e-03 3.53e-03 1.60e-04 2.19e-03
## 1421 7.53e-06 -9.10e-06 6.63e-05 2.22e-05 4.23e-05 -1.64e-05 9.55e-04
## 1422 -6.11e-03 -1.91e-04 -1.90e-03 3.44e-03 8.04e-03 -3.29e-04 5.60e-03
## 1423 3.75e-04 -1.91e-05 1.72e-04 -8.45e-05 -3.14e-04 -2.55e-05 -1.84e-04
## 1424 6.38e-04 5.12e-05 4.88e-04 1.85e-06 5.22e-03 -2.52e-06 5.94e-06
## 1425 -7.03e-04 -2.35e-04 -5.25e-04 1.81e-04 -4.27e-03 -2.02e-04 4.75e-04
## 1426 -2.33e-02 -7.12e-04 8.34e-02 -7.03e-03 -5.14e-02 -1.04e-03 -7.83e-03
## 1427 -1.25e-02 -6.12e-03 8.52e-02 1.22e-02 2.04e-02 -9.68e-03 -6.00e-02
## 1428 7.79e-04 1.08e-03 -7.31e-04 -3.53e-03 8.71e-03 1.53e-03 -5.24e-03
## 1429 8.95e-04 -2.05e-04 5.47e-04 1.91e-04 -1.22e-04 -2.66e-04 1.50e-04
## 1430 -8.97e-04 2.08e-05 -1.25e-03 -1.10e-03 -7.40e-03 2.27e-04 -1.12e-03
## 1431 8.63e-04 1.73e-04 6.71e-04 -1.69e-04 9.72e-03 1.55e-04 -4.69e-04
## 1432 2.69e-03 -4.93e-04 1.44e-03 1.03e-04 -9.83e-04 -6.31e-04 -9.23e-05
## 1433 -3.84e-02 2.20e-03 8.45e-02 -3.61e-03 3.88e-03 1.59e-03 -2.65e-04
## 1434 -6.30e-04 -4.30e-04 -5.43e-04 -4.93e-02 1.43e-03 -4.44e-04 1.34e-03
## 1435 5.86e-03 -6.52e-04 2.30e-03 -1.67e-03 -5.21e-03 -6.68e-04 -2.98e-03
## 1436 -1.65e-03 1.86e-04 -4.69e-04 1.03e-03 2.84e-03 3.07e-04 1.03e-03
## 1437 5.83e-03 -6.57e-04 2.32e-03 -1.59e-03 -5.01e-03 -6.95e-04 -2.80e-03
## 1438 -6.37e-03 -4.46e-04 -1.53e-03 4.69e-03 1.09e-02 -8.62e-04 8.22e-03
## 1439 -2.89e-04 8.39e-05 7.16e-04 -5.07e-04 -6.80e-04 1.29e-04 1.83e-02
## 1440 -3.14e-03 5.03e-04 -1.53e-03 2.13e-04 1.70e-03 6.13e-04 6.12e-04
## 1441 -2.75e-03 -3.83e-04 -3.20e-04 2.76e-03 5.27e-03 -5.77e-04 3.98e-03
## 1442 6.00e-02 3.57e-04 -1.26e-01 -2.07e-03 -1.91e-02 1.83e-03 -1.15e-02
## 1443 -3.62e-05 5.32e-05 -2.89e-04 -1.58e-04 -2.71e-04 9.13e-05 -3.74e-03
## 1444 1.65e-04 -8.97e-05 2.99e-04 1.73e-02 4.20e-04 -1.48e-04 4.05e-04
## 1445 -1.17e-03 1.81e-05 -4.62e-04 4.42e-04 1.32e-03 3.68e-06 8.92e-04
## 1446 2.31e-05 -2.92e-05 8.05e-05 4.44e-03 1.49e-04 -4.49e-05 1.33e-04
## 1447 2.46e-03 1.30e-03 -5.22e-04 -5.08e-03 6.72e-03 1.65e-03 -6.07e-03
## 1448 -6.50e-04 -1.18e-06 -7.58e-04 -5.45e-04 -4.24e-03 1.29e-04 -6.14e-04
## 1449 -6.14e-03 1.27e-03 -3.43e-03 -6.01e-04 2.16e-03 1.55e-03 1.87e-04
## 1450 1.90e-03 5.94e-05 5.93e-04 -1.07e-03 -2.51e-03 1.03e-04 -1.75e-03
## 1451 4.70e-03 7.39e-04 -3.53e-04 -6.37e-03 -1.11e-02 1.28e-03 -8.55e-03
## 1452 -1.83e-03 -2.66e-04 -1.86e-04 1.96e-03 4.52e-03 -5.36e-04 3.68e-03
## 1453 -3.02e-03 -2.22e-04 -3.25e-03 -1.83e-03 -1.95e-02 2.85e-04 -1.80e-03
## 1454 1.39e-02 -1.19e-03 7.27e-03 -1.04e-03 -7.36e-03 -1.87e-03 -2.80e-03
## 1455 -2.13e-03 -3.87e-06 -2.49e-03 -1.79e-03 -1.39e-02 4.25e-04 -2.02e-03
## 1456 1.51e-03 2.20e-04 1.27e-03 2.22e-04 7.73e-03 3.63e-05 1.70e-04
## 1457 3.07e-03 -6.31e-04 1.75e-03 3.80e-04 -7.82e-04 -8.14e-04 1.93e-04
## 1458 3.21e-04 1.22e-05 4.30e-05 -2.81e-04 -5.45e-04 3.19e-05 -3.93e-04
## 1459 -1.41e-03 -5.52e-04 -8.73e-04 7.45e-04 -7.80e-03 -5.29e-04 1.41e-03
## 1460 -1.74e-02 4.34e-04 4.17e-02 5.05e-04 5.38e-03 -2.88e-04 3.38e-03
## 1461 -3.61e-03 -2.18e-04 -2.94e-03 -8.14e-04 -1.48e-02 3.18e-04 -1.46e-03
## 1462 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03
## 1463 3.90e-03 1.23e-03 6.94e-03 -1.79e-04 -4.52e-03 2.06e-04 -4.12e-04
## 1464 -2.60e-03 1.58e-04 -7.69e-04 1.31e-03 3.19e-03 8.61e-05 2.11e-03
## 1465 -1.94e-02 -7.22e-03 7.42e-03 -3.24e-05 -2.04e-03 -3.47e-03 -1.33e-04
## 1466 -3.23e-03 -1.21e-03 1.49e-03 -3.96e-05 -4.92e-04 -5.68e-04 -1.01e-04
## 1467 -2.46e-03 -7.34e-04 4.35e-04 4.21e-03 8.55e-03 -1.32e-03 7.18e-03
## 1468 4.88e-02 2.75e-02 1.03e-01 -7.86e-03 -3.98e-03 1.12e-02 -7.98e-03
## 1469 -2.94e-03 5.49e-04 -3.04e-03 -2.44e-03 -1.84e-02 1.20e-03 -3.99e-03
## 1470 3.36e-02 1.51e-02 7.60e-02 5.88e-03 1.60e-02 2.27e-03 1.18e-02
## 1471 1.06e-02 3.94e-03 -4.83e-03 1.41e-04 1.63e-03 1.84e-03 3.63e-04
## 1472 2.12e-03 1.08e-03 4.99e-03 2.00e-04 7.44e-04 2.67e-04 4.39e-04

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## 1473 2.06e-02 7.34e-03 -8.73e-03 1.18e-03 4.56e-03 3.13e-03 2.09e-03
## 1474 1.86e-02 6.87e-03 -8.37e-03 3.01e-04 2.97e-03 3.17e-03 7.84e-04
## 1475 2.42e-02 9.08e-03 -1.10e-02 -1.14e-03 1.75e-03 4.45e-03 -6.04e-04
## 1476 2.57e-02 1.30e-02 5.41e-02 -7.72e-04 2.98e-03 4.24e-03 8.25e-04
## 1477 6.56e-03 2.54e-03 -2.67e-03 -4.33e-04 5.28e-05 1.32e-03 -5.09e-04
## 1478 -1.42e-03 -8.25e-06 -2.85e-04 1.03e-03 2.06e-03 -6.10e-05 1.42e-03
## 1479 -5.81e-02 -2.50e-02 3.28e-02 9.12e-03 5.84e-03 -1.46e-02 1.22e-02
## 1480 -5.86e-02 -3.52e-02 -1.32e-01 1.31e-02 6.71e-03 -1.47e-02 1.30e-02
## 1481 2.05e-02 7.58e-03 -9.22e-03 3.31e-04 3.27e-03 3.50e-03 8.65e-04
## 1482 -2.99e-03 -3.00e-04 -2.82e-03 -1.09e-03 -1.66e-02 1.38e-04 -1.12e-03
## 1483 1.02e-04 -1.33e-04 7.50e-07 -1.26e-02 4.53e-04 -1.82e-04 5.22e-04
## 1484 1.25e-03 2.14e-04 1.06e-03 1.53e-04 6.77e-03 7.24e-05 3.04e-05
## 1485 -2.45e-04 -3.91e-05 -6.54e-04 -9.53e-05 -9.60e-05 3.10e-05 -7.34e-03
## 1486 2.87e-05 -6.87e-05 -3.19e-04 2.67e-05 1.38e-04 -6.56e-05 -5.01e-03
## 1487 2.04e-04 3.07e-04 3.91e-04 -2.24e-05 5.49e-03 3.58e-04 -8.03e-04
## 1488 1.42e-02 4.86e-03 -5.63e-03 1.39e-03 4.02e-03 1.89e-03 2.29e-03
## 1489 1.78e-03 3.90e-04 4.64e-04 -1.60e-03 5.59e-03 3.63e-04 -1.50e-03
## 1490 -2.08e-03 3.80e-04 -1.09e-03 -2.91e-05 9.27e-04 4.66e-04 2.30e-04
## 1491 1.37e-04 2.16e-05 1.09e-05 -1.52e-04 -3.25e-04 3.94e-05 -2.60e-04
## 1492 -3.28e-03 3.11e-05 -1.26e-03 1.33e-03 3.94e-03 -3.54e-05 2.73e-03
## 1493 3.95e-04 2.52e-05 2.55e-04 -4.86e-05 2.29e-03 -1.19e-05 1.48e-05
## 1494 6.97e-04 8.03e-05 3.76e-04 -2.45e-04 3.68e-03 3.31e-05 -1.70e-04
## 1495 1.13e-03 2.68e-04 3.10e-04 -1.03e-03 4.31e-03 2.62e-04 -1.04e-03
## 1496 2.30e-04 1.28e-04 -4.66e-04 -5.22e-04 -7.34e-04 1.74e-04 -6.82e-03
## 1497 -5.69e-03 -3.40e-04 -4.22e-03 -6.53e-04 -1.98e-02 4.68e-04 -1.93e-03
## 1498 -2.93e-03 -5.52e-04 -2.18e-03 1.74e-04 -1.38e-02 -2.65e-04 3.96e-04
## 1499 -1.38e-03 2.52e-04 -7.29e-04 -3.84e-05 5.51e-04 3.17e-04 9.26e-05
## 1500 6.03e-03 3.52e-04 1.57e-03 -4.25e-03 -1.10e-02 8.74e-04 -8.57e-03
## 1501 3.86e-03 1.52e-03 2.40e-03 -2.05e-03 2.14e-02 1.45e-03 -3.88e-03
## 1502 1.11e-03 5.68e-04 6.21e-05 -1.87e-03 7.54e-03 7.20e-04 -2.53e-03
## 1503 3.72e-03 2.26e-03 -3.41e-04 -7.09e-03 5.60e-03 2.71e-03 -9.14e-03
## 1504 8.39e-04 4.81e-04 -6.76e-05 -1.65e-03 5.01e-03 6.21e-04 -2.20e-03
## 1505 -6.42e-05 1.78e-06 -5.78e-05 -2.39e-05 -5.03e-04 1.08e-05 -3.63e-05
## 1506 -1.45e-03 1.18e-04 -7.50e-04 1.37e-04 8.53e-04 1.80e-04 3.74e-04
## 1507 -9.53e-04 -9.45e-05 -1.76e-04 8.36e-04 2.03e-03 -2.04e-04 1.62e-03
## 1508 -3.65e-04 -5.58e-05 -3.57e-04 -1.26e-04 -2.32e-03 -7.86e-06 -7.74e-05
## 1509 9.17e-04 6.29e-04 -1.84e-04 -2.14e-03 6.14e-03 8.36e-04 -2.93e-03
## 1510 -1.70e-04 -8.60e-05 -3.82e-04 -3.02e-04 -3.47e-03 -6.46e-05 -1.22e-05
## 1511 2.41e-03 1.62e-04 9.64e-05 -2.61e-03 -5.25e-03 4.44e-04 -4.05e-03
## 1512 -6.33e-03 1.56e-04 -2.62e-03 2.07e-03 5.77e-03 2.56e-04 3.45e-03
## 1513 9.75e-04 -1.73e-04 1.31e-03 1.32e-03 6.20e-03 -4.45e-04 1.73e-03
## 1514 -5.11e-04 -9.77e-06 -6.14e-04 -4.45e-04 -3.58e-03 9.14e-05 -4.67e-04
## 1515 -1.12e-03 -3.21e-04 -9.89e-04 -1.73e-05 -7.61e-03 -2.36e-04 4.17e-04
## 1516 2.19e-04 6.28e-05 1.93e-04 3.39e-06 1.49e-03 4.61e-05 -8.16e-05
## 1517 -3.11e-02 -1.33e-02 1.73e-02 5.71e-03 4.21e-03 -7.85e-03 7.20e-03
## 1518 4.03e-03 -2.04e-04 1.86e-03 -8.74e-04 -2.90e-03 -3.42e-04 -1.49e-03
## 1519 4.64e-03 1.72e-03 -1.77e-03 1.46e-04 6.76e-04 8.07e-04 1.72e-04
## 1520 4.47e-03 -9.20e-04 2.53e-03 4.95e-04 -1.36e-03 -1.16e-03 7.15e-05
## 1521 9.55e-03 3.65e-03 -4.53e-03 -2.33e-04 9.48e-04 1.80e-03 -1.42e-04
## 1522 5.28e-04 -4.79e-05 1.90e-04 -1.90e-04 -5.15e-04 -4.65e-05 -3.08e-04
## 1523 9.26e-03 3.24e-03 -3.80e-03 5.71e-04 2.13e-03 1.35e-03 1.06e-03
## 1524 1.91e-03 -2.97e-04 8.72e-04 -2.53e-04 -1.40e-03 -3.17e-04 -7.17e-04
## 1525 9.56e-05 3.47e-05 -3.51e-05 6.38e-06 1.88e-05 1.54e-05 7.87e-06
## 1526 3.07e-03 -3.62e-04 1.28e-03 -7.01e-04 -2.29e-03 -4.23e-04 -1.15e-03

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## 1527 6.85e-03 2.67e-03 -2.83e-03 -2.75e-04 2.83e-04 1.37e-03 -3.88e-04
## 1528 4.63e-04 -4.88e-06 1.04e-04 -3.09e-04 -6.37e-04 1.04e-05 -4.33e-04
## 1529 9.66e-03 3.43e-03 -3.37e-03 4.24e-04 1.65e-03 1.51e-03 7.04e-04
## 1530 2.88e-03 6.84e-05 4.42e-04 -2.39e-03 -4.78e-03 2.43e-04 -3.44e-03
## 1531 -2.44e-02 -7.85e-03 8.46e-03 -6.69e-04 -4.78e-03 -3.00e-03 -3.01e-03
## 1532 -7.84e-04 5.38e-04 -2.88e-03 -7.79e-02 -4.98e-03 1.10e-03 -4.30e-03
## 1533 1.59e-02 1.82e-03 -4.89e-02 7.92e-04 2.48e-02 2.12e-03 1.19e-04
## 1534 5.17e-03 -4.31e-04 1.73e-03 -2.14e-03 -5.73e-03 -3.37e-04 -3.66e-03
## 1535 -2.65e-03 1.46e-04 -1.24e-03 5.46e-04 2.08e-03 2.08e-04 1.17e-03
## 1536 9.80e-03 3.18e-03 -3.56e-03 1.37e-03 3.39e-03 1.09e-03 2.20e-03
## 1537 2.58e-04 -1.42e-05 1.21e-04 -5.32e-05 -2.03e-04 -2.02e-05 -1.14e-04
## 1538 -2.16e-02 -1.33e-03 4.95e-02 5.39e-03 1.41e-02 -2.60e-03 1.09e-02
## 1539 -6.31e-04 2.11e-04 -9.18e-04 -1.03e-03 -6.11e-03 3.98e-04 -1.40e-03
## 1540 1.99e-04 1.50e-05 1.27e-04 -2.97e-05 1.19e-03 -2.50e-06 -3.58e-06
## 1541 1.89e-04 -1.43e-05 9.61e-04 -2.41e-04 -1.51e-04 -7.66e-05 1.67e-02
## 1542 -7.80e-03 1.83e-04 -3.21e-03 2.59e-03 7.21e-03 2.95e-04 4.35e-03
## 1543 -6.51e-03 3.17e-04 -2.97e-03 1.47e-03 4.83e-03 5.23e-04 2.54e-03
## 1544 -7.47e-04 1.54e-04 -4.26e-04 -9.16e-05 1.93e-04 1.98e-04 -4.42e-05
## 1545 -3.52e-03 4.37e-04 -2.09e-03 -2.98e-04 1.04e-03 6.80e-04 -2.42e-05
## 1546 -5.47e-03 1.13e-03 -3.06e-03 -5.43e-04 1.90e-03 1.39e-03 1.40e-04
## 1547 -4.42e-02 1.98e-03 9.88e-02 -1.90e-03 7.84e-03 9.65e-04 2.76e-03
## 1548 -3.69e-03 -2.59e-04 -8.92e-04 2.65e-03 5.44e-03 -3.75e-04 3.86e-03
## 1549 -2.87e-03 2.50e-04 -9.97e-04 1.11e-03 2.98e-03 2.21e-04 1.85e-03
## 1550 -4.81e-04 -1.79e-04 -1.27e-03 1.42e-04 3.24e-04 -7.78e-05 -1.59e-02
## 1551 1.00e-03 2.43e-04 4.59e-04 -6.83e-04 7.00e-03 2.41e-04 -8.67e-04
## 1552 -7.55e-03 -4.62e-04 -1.93e-03 5.26e-03 1.22e-02 -8.81e-04 9.09e-03
## 1553 -9.11e-04 -5.01e-04 -4.21e-04 9.00e-04 -5.16e-03 -5.48e-04 1.58e-03
## 1554 -4.80e-03 -1.83e-04 -1.43e-03 2.85e-03 6.65e-03 -3.27e-04 4.72e-03
## 1555 1.62e-04 2.10e-05 8.60e-05 -6.30e-05 8.86e-04 1.11e-05 -5.07e-05
## 1556 4.90e-03 1.52e-04 7.44e-04 -4.10e-03 -7.93e-03 4.11e-04 -5.64e-03
## 1557 1.15e-02 -6.55e-04 3.60e-03 -5.38e-03 -1.23e-02 -5.90e-04 -7.60e-03
## 1558 -1.16e-03 -2.86e-05 -1.74e-03 -6.35e-02 -1.21e-03 2.62e-04 -1.15e-03
## 1559 -1.81e-03 5.60e-06 -6.75e-04 7.89e-04 2.31e-03 -4.65e-05 1.63e-03
## 1560 9.83e-04 2.82e-04 8.69e-04 1.52e-05 6.69e-03 2.07e-04 -3.67e-04
## 1561 1.50e-03 -7.55e-04 7.44e-03 5.58e-03 7.54e-03 -1.84e-03 6.97e-02
## 1562 2.29e-03 -3.15e-04 1.02e-03 -3.76e-04 -1.57e-03 -3.66e-04 -7.41e-04
## 1563 -2.42e-03 -5.27e-04 -1.80e-03 2.41e-04 -1.20e-02 -3.15e-04 5.91e-04
## 1564 3.77e-04 2.84e-05 2.41e-04 -5.62e-05 2.26e-03 -4.73e-06 -6.77e-06
## 1565 -1.02e-03 2.10e-04 -5.80e-04 -1.21e-04 2.80e-04 2.68e-04 -4.47e-05
## 1566 4.44e-05 2.94e-06 3.39e-05 1.16e-06 3.47e-04 -1.13e-06 3.29e-06
## 1567 -2.30e-03 4.19e-04 -1.19e-03 -1.52e-05 1.08e-03 5.06e-04 3.06e-04
## 1568 -1.12e-03 2.30e-04 -6.35e-04 -1.31e-04 3.11e-04 2.93e-04 -4.46e-05
## 1569 -1.16e-03 -2.86e-05 -1.74e-03 -6.35e-02 -1.21e-03 2.62e-04 -1.15e-03
## 1570 -1.95e-03 -2.73e-04 -1.45e-03 -1.12e-05 -8.24e-03 -5.01e-05 -8.24e-05
## 1571 2.10e-03 -1.07e-04 5.56e-04 -1.20e-03 -2.91e-03 -1.05e-05 -2.02e-03
## 1572 -5.69e-03 5.25e-04 -2.08e-03 1.97e-03 5.37e-03 5.31e-04 3.15e-03
## 1573 4.42e-04 5.75e-04 4.57e-04 -2.89e-03 -3.85e-03 7.64e-04 2.26e-02
## 1574 -1.67e-02 -9.84e-04 8.06e-02 -2.97e-03 -4.98e-03 -2.00e-03 -8.80e-02
## 1575 -4.92e-03 7.57e-04 -2.20e-03 7.59e-04 3.91e-03 7.72e-04 2.15e-03
## 1576 -6.02e-03 1.38e-03 -3.64e-03 -1.21e-03 1.16e-03 1.75e-03 -6.75e-04
## 1577 2.25e-03 -3.46e-04 1.00e-03 -3.46e-04 -1.78e-03 -3.53e-04 -9.80e-04
## 1578 2.06e-04 -8.59e-06 9.12e-05 -5.53e-05 -1.96e-04 -9.41e-06 -1.24e-04
## 1579 -5.21e-04 2.86e-04 -2.03e-03 -1.71e-03 -2.40e-03 6.20e-04 -1.73e-02
## 1580 1.96e-03 6.68e-04 2.72e-04 -2.33e-03 1.91e-03 6.87e-04 -2.47e-03

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## 1581 -5.80e-04 -2.42e-04 -2.06e-04 5.62e-04 -2.05e-03 -2.52e-04 7.80e-04
## 1582 -1.42e-03 -1.42e-04 -1.34e-03 -5.16e-04 -7.88e-03 6.53e-05 -5.31e-04
## 1583 8.64e-04 2.95e-04 6.46e-04 -2.31e-04 5.32e-03 2.56e-04 -6.06e-04
## 1584 -7.16e-05 2.33e-04 5.66e-04 -1.21e-03 -1.62e-03 3.25e-04 1.82e-02
## 1585 2.31e-04 -1.95e-04 1.37e-03 4.75e-04 9.16e-04 -3.58e-04 1.89e-02
## 1586 3.79e-04 1.99e-05 2.06e-05 -3.97e-04 -8.26e-04 6.59e-05 -6.38e-04
## 1587 1.69e-03 1.24e-04 1.82e-03 1.02e-03 1.09e-02 -1.59e-04 1.01e-03
## 1588 -4.13e-03 -5.35e-05 -1.43e-03 1.99e-03 4.68e-03 -6.40e-05 3.07e-03
## 1589 1.40e-03 2.25e-04 7.18e-04 -6.58e-04 8.26e-03 1.62e-04 -6.51e-04
## 1590 -1.47e-03 -1.99e-04 -1.42e-03 -5.18e-04 -8.96e-03 1.63e-06 -3.92e-04
## 1591 4.04e-04 3.65e-05 3.21e-07 -4.73e-04 -9.28e-04 8.74e-05 -7.20e-04
## 1592 1.79e-02 -1.82e-03 9.88e-03 -1.94e-04 -8.27e-03 -2.77e-03 -2.60e-03
## 1593 1.47e-03 1.50e-04 -1.49e-05 -1.76e-03 -3.37e-03 3.29e-04 -2.60e-03
## 1594 9.11e-03 -5.38e-04 4.33e-03 -1.71e-03 -6.70e-03 -8.02e-04 -3.58e-03
## 1595 6.47e-04 4.18e-04 -4.07e-04 -1.10e-03 1.98e-03 2.73e-04 -4.03e-04
## 1596 -1.12e-03 2.71e-03 -5.67e-03 -9.02e-02 -1.57e-02 4.20e-03 -1.43e-02
## 1597 -9.52e-04 3.37e-05 -2.29e-03 -8.15e-04 -1.14e-03 3.46e-04 -2.25e-02
## 1598 -3.71e-03 -7.66e-04 2.08e-05 4.80e-03 9.05e-03 -1.22e-03 7.16e-03
## 1599 6.98e-04 9.05e-04 -1.07e-03 6.41e-02 -5.92e-03 1.31e-03 -5.16e-03
## 1600 -4.44e-04 1.70e-04 -7.59e-04 -9.12e-04 -5.66e-03 3.12e-04 -1.13e-03
## 1601 6.09e-05 4.38e-06 1.42e-07 -7.09e-05 -1.48e-04 1.34e-05 -1.17e-04
## 1602 -7.78e-03 -5.44e-04 -1.87e-03 5.73e-03 1.33e-02 -1.05e-03 1.00e-02
## 1603 1.69e-03 4.54e-05 2.44e-04 -1.43e-03 -2.86e-03 1.55e-04 -2.07e-03
## 1604 -3.56e-02 -4.17e-03 9.17e-02 2.21e-02 4.11e-02 -8.04e-03 3.35e-02
## 1605 -5.60e-03 1.76e-04 -2.38e-03 1.71e-03 5.29e-03 2.25e-04 3.28e-03
## 1606 -2.03e-03 5.19e-05 -8.36e-04 6.96e-04 2.34e-03 1.28e-05 1.61e-03
## 1607 1.36e-03 1.02e-04 5.36e-05 -1.48e-03 -2.89e-03 2.49e-04 -2.21e-03
## 1608 -1.20e-03 -1.52e-04 -1.63e-04 1.17e-03 2.49e-03 -2.70e-04 1.95e-03
## 1609 -6.66e-04 2.48e-04 -1.59e-03 -4.29e-02 -2.42e-03 5.63e-04 -2.17e-03
## 1610 -1.44e-03 -6.47e-06 -2.67e-04 1.09e-03 2.27e-03 -8.44e-05 1.61e-03
## 1611 -2.12e-03 4.35e-04 -1.21e-03 -2.67e-04 5.23e-04 5.64e-04 -1.50e-04
## 1612 3.29e-03 5.97e-04 -5.58e-04 -5.14e-03 -9.50e-03 1.18e-03 -7.61e-03
## 1613 1.87e-03 5.76e-04 4.70e-04 -2.00e-03 9.61e-03 6.35e-04 -2.35e-03
## 1614 4.62e-04 -1.28e-05 4.16e-04 1.71e-04 3.62e-03 -7.74e-05 2.61e-04
## 1615 8.47e-04 -2.32e-05 3.54e-04 -2.74e-04 -8.40e-04 -2.62e-05 -5.33e-04
## 1616 6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04 4.37e-04 4.02e-04 -5.60e-04
## 1617 1.53e-04 -9.04e-03 -9.86e-04 -1.48e-04 -1.66e-04 1.39e-04 -2.77e-04
## 1618 1.78e-04 -4.60e-02 -5.39e-03 -4.49e-04 2.39e-05 3.44e-04 -6.44e-04
## 1619 -6.83e-04 2.99e-02 3.28e-03 7.32e-04 8.46e-04 -5.03e-04 1.11e-03
## 1620 1.70e-03 -8.04e-02 -8.50e-03 -1.15e-03 -1.12e-03 1.09e-03 -2.01e-03
## 1621 8.96e-04 -4.09e-02 -3.89e-03 3.19e-04 7.53e-04 2.12e-04 1.76e-04
## 1622 9.20e-04 -5.42e-02 -5.54e-03 3.86e-04 1.60e-03 -1.15e-04 9.22e-04
## 1623 -6.39e-04 2.48e-02 2.54e-03 3.03e-04 2.33e-04 -2.87e-04 4.76e-04
## 1624 1.50e-02 1.84e-01 -8.09e-02 -3.93e-04 -4.44e-03 4.53e-03 -4.73e-03
## 1625 2.57e-05 -2.42e-03 -2.47e-04 3.60e-05 9.34e-05 -8.03e-06 5.50e-05
## 1626 -7.32e-05 7.92e-03 8.17e-04 -1.13e-04 -2.95e-04 2.16e-05 -1.66e-04
## 1627 -4.40e-03 1.22e-01 1.09e-02 -4.36e-04 -2.08e-03 -3.68e-04 -1.05e-03
## 1628 4.05e-04 2.77e-05 2.98e-05 -4.10e-04 -7.78e-04 6.10e-05 -5.78e-04
## 1629 -6.79e-03 -3.44e-04 -1.87e-03 4.42e-03 1.03e-02 -6.43e-04 7.50e-03
## 1630 -2.03e-02 -4.07e-03 9.26e-02 5.39e-03 -3.31e-02 -6.56e-03 1.07e-02
## 1631 -4.71e-02 2.04e-03 1.07e-01 -1.83e-03 8.91e-03 8.36e-04 3.57e-03
## 1632 -3.52e-02 1.09e-03 8.79e-02 -1.86e-04 9.97e-03 -5.14e-04 6.45e-03
## 1633 1.36e-02 5.12e-03 -5.28e-03 -3.96e-04 8.52e-04 2.54e-03 -3.68e-04
## 1634 -2.21e-04 7.32e-06 -5.31e-04 -2.05e-02 -5.14e-04 8.96e-05 -4.23e-04

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## 1635 -2.59e-02 -1.68e-03 8.23e-02 -7.92e-03 -5.18e-02 -1.65e-03 -7.70e-03
## 1636 -2.93e-05 4.15e-04 5.60e-04 -2.06e-03 -2.80e-03 5.84e-04 2.32e-02
## 1637 1.24e-02 -1.95e-03 5.82e-03 -1.27e-03 -7.97e-03 -2.22e-03 -3.62e-03
## 1638 -1.10e-05 1.40e-04 -4.27e-04 -5.31e-04 -8.03e-04 2.20e-04 -3.99e-03
## 1639 1.53e-03 3.35e-04 3.98e-04 -1.37e-03 4.79e-03 3.11e-04 -1.28e-03
## 1640 -2.04e-03 3.24e-04 -9.72e-04 1.92e-04 1.26e-03 3.75e-04 5.47e-04
## 1641 1.33e-03 3.70e-04 2.57e-04 -1.45e-03 4.57e-03 3.89e-04 -1.52e-03
## 1642 2.42e-03 -1.35e-04 6.78e-04 -1.30e-03 -3.15e-03 -4.72e-05 -2.14e-03
## 1643 -1.27e-04 9.80e-07 -1.17e-04 -4.59e-05 -1.10e-03 1.74e-05 -6.12e-05
## 1644 -5.51e-03 -7.22e-04 -7.14e-04 5.43e-03 1.12e-02 -1.22e-03 8.68e-03
## 1645 -3.65e-03 4.94e-04 -1.59e-03 6.73e-04 2.70e-03 5.51e-04 1.37e-03
## 1646 -2.05e-03 -2.98e-04 -1.72e-03 -3.00e-04 -1.05e-02 -4.92e-05 -2.31e-04
## 1647 4.84e-02 -6.34e-04 -9.50e-02 1.47e-03 -9.67e-03 -2.02e-04 -3.61e-03
## 1648 -1.83e-03 8.32e-05 -4.53e-04 1.12e-03 2.70e-03 -1.94e-05 1.92e-03
## 1649 -2.49e-03 3.06e-04 -9.43e-04 7.69e-04 2.68e-03 2.43e-04 1.73e-03
## 1650 6.94e-04 -5.67e-05 3.58e-04 -6.45e-05 -4.04e-04 -8.65e-05 -1.76e-04
## 1651 -5.50e-03 -5.00e-04 -1.11e-03 4.52e-03 1.00e-02 -9.07e-04 7.63e-03
## 1652 -3.44e-04 3.56e-05 -1.24e-04 1.20e-04 3.63e-04 2.97e-05 2.29e-04
## 1653 9.73e-03 -1.00e-03 5.40e-03 -4.40e-05 -4.31e-03 -1.54e-03 -1.23e-03
## 1654 -3.44e-03 4.70e-04 -1.52e-03 5.77e-04 2.39e-03 5.43e-04 1.15e-03
## 1655 1.46e-03 -5.62e-05 3.77e-04 -8.64e-04 -1.97e-03 -2.70e-06 -1.34e-03
## 1656 -9.53e-03 -1.78e-04 -3.19e-03 4.84e-03 1.13e-02 -2.63e-04 7.60e-03
## 1657 2.02e-03 1.88e-04 2.38e-05 -2.32e-03 -4.42e-03 4.13e-04 -3.39e-03
## 1658 2.64e-03 3.90e-04 -2.77e-04 -3.73e-03 -7.02e-03 8.06e-04 -5.56e-03
## 1659 3.44e-03 -1.14e-04 7.18e-04 -2.39e-03 -5.75e-03 1.57e-04 -4.24e-03
## 1660 1.69e-03 1.16e-03 -1.49e-03 -5.70e-03 -1.12e-02 2.10e-03 -9.91e-03
## 1661 -8.11e-03 5.38e-04 -3.96e-03 1.24e-03 5.22e-03 8.59e-04 2.47e-03
## 1662 -4.92e-03 -2.23e-04 -1.41e-03 3.08e-03 7.19e-03 -4.11e-04 5.18e-03
## 1663 2.10e-03 -1.07e-04 5.56e-04 -1.20e-03 -2.91e-03 -1.05e-05 -2.02e-03
## 1664 -1.10e-03 -5.33e-05 -3.07e-04 7.15e-04 1.75e-03 -1.15e-04 1.31e-03
## 1665 -9.38e-04 3.26e-04 -1.43e-03 -1.64e-03 -9.83e-03 6.09e-04 -2.16e-03
## 1666 -4.46e-03 7.06e-04 -2.12e-03 4.18e-04 2.76e-03 8.19e-04 1.19e-03
## 1667 1.07e-03 5.44e-05 1.05e-03 3.53e-04 1.18e-02 -5.11e-05 2.50e-04
## 1668 1.07e-03 5.44e-05 1.05e-03 3.53e-04 1.18e-02 -5.11e-05 2.50e-04
## 1669 3.10e-03 6.03e-04 2.16e-05 -4.10e-03 -1.03e-02 1.39e-03 -8.85e-03
## 1670 1.42e-03 2.02e-03 -4.36e-04 -7.40e-03 -1.08e-02 2.62e-03 2.13e-02
## 1671 -1.63e-03 4.62e-05 -1.57e-04 1.73e-03 4.06e-03 7.31e-05 2.04e-03
## 1672 1.92e-03 -3.08e-04 9.37e-04 -1.30e-04 -1.04e-03 -3.75e-04 -3.74e-04
## 1673 1.50e-03 1.29e-03 -1.52e-04 -3.41e-03 5.61e-03 1.60e-03 -5.09e-03
## 1674 1.69e-03 -3.03e-04 2.21e-03 2.20e-03 1.02e-02 -7.69e-04 2.95e-03
## 1675 -2.04e-03 5.34e-04 -1.89e-04 -6.41e-04 -1.92e-03 9.28e-04 1.50e-02
## 1676 4.05e-04 2.77e-05 2.98e-05 -4.10e-04 -7.78e-04 6.10e-05 -5.78e-04
## 1677 4.57e-03 5.46e-04 -1.00e-04 -5.62e-03 -1.03e-02 1.06e-03 -7.88e-03
## 1678 -6.08e-03 4.74e-04 -3.10e-03 6.69e-04 3.84e-03 7.01e-04 1.83e-03
## 1679 1.70e-03 1.54e-04 1.36e-06 -2.00e-03 -3.91e-03 3.69e-04 -3.04e-03
## 1680 -1.64e-03 -6.50e-05 -2.04e-03 -1.49e-03 -1.24e-02 2.54e-04 -1.44e-03
## 1681 2.54e-03 3.38e-04 -1.38e-04 -3.30e-03 -6.06e-03 6.58e-04 -4.70e-03
## 1682 1.44e-03 4.38e-04 1.96e-03 1.04e-03 1.59e-02 2.74e-04 9.04e-06
## 1683 -3.18e-03 -7.90e-06 -1.16e-03 1.40e-03 3.53e-03 -1.75e-05 2.31e-03
## 1684 -5.57e-04 3.18e-04 -2.28e-03 -1.93e-03 -2.70e-03 6.90e-04 -1.95e-02
## 1685 -5.82e-04 -1.96e-05 -1.81e-03 -5.95e-04 -7.41e-04 1.96e-04 -1.93e-02
## 1686 -4.95e-04 1.35e-04 -1.75e-03 -1.09e-03 -1.50e-03 3.89e-04 -1.64e-02
## 1687 1.93e-03 5.00e-04 -6.16e-04 -2.60e-03 -3.75e-03 4.52e-04 -2.39e-03
## 1688 -1.03e-03 -3.47e-05 -3.20e-03 -1.05e-03 -1.31e-03 3.46e-04 -3.41e-02

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## 1689  4.70e-03  6.63e-04  5.08e-04 -5.01e-03 -1.21e-02  1.43e-03 -9.95e-03
## 1690 -4.34e-04  9.92e-05 -2.64e-04 -9.16e-05  6.28e-05  1.29e-04 -6.91e-05
## 1691 -5.67e-03  8.97e-04 -2.69e-03  5.31e-04  3.50e-03  1.04e-03  1.51e-03
## 1692 -1.54e-03 -5.76e-06 -5.52e-04  7.17e-04  2.08e-03 -6.38e-05  1.50e-03
## 1693  3.25e-04  1.20e-04  8.89e-05 -3.73e-04  2.25e-03  1.40e-04 -4.96e-04
## 1694  2.57e-04 -6.01e-05  5.30e-04  3.33e-04  5.06e-04 -1.54e-04  4.22e-03
## 1695 -3.12e-04 -1.55e-04  1.15e-04  3.66e-04 -1.07e-03 -7.06e-05  3.62e-06
## 1696 -1.11e-03  2.03e-04 -5.89e-04 -3.68e-05  4.24e-04  2.58e-04  5.60e-05
## 1697 -5.68e-04  2.40e-06 -1.18e-04  4.01e-04  8.28e-04 -2.13e-05  5.74e-04
## 1698  2.46e-03 -1.36e-04  1.15e-03 -5.01e-04 -1.92e-03 -1.95e-04 -1.07e-03
## 1699 -1.82e-03  2.09e-04 -7.40e-04  4.63e-04  1.48e-03  2.31e-04  7.95e-04
## 1700  1.71e-03  2.05e-03 -2.19e-03 -8.69e-03  3.26e-03  2.15e-03 -8.09e-03
## 1701 -4.22e-05  5.09e-06 -2.48e-05 -2.86e-06  1.49e-05  7.71e-06  2.07e-06
## 1702 -2.66e-03  2.73e-04 -1.47e-03  1.20e-05  1.18e-03  4.21e-04  3.35e-04
## 1703 -8.53e-05 -9.26e-05 -4.51e-05  3.35e-04 -2.73e-03  2.18e-05 -4.73e-05
## 1704  1.70e-02 -7.88e-04  7.66e-03 -4.18e-03 -1.51e-02 -9.70e-04 -9.23e-03
## 1705  2.86e-03 -3.67e-04  1.15e-03 -7.24e-04 -2.65e-03 -3.46e-04 -1.58e-03
## 1706  1.03e-01  3.53e-03 -2.16e-01 -1.65e-02 -5.02e-02  7.18e-03 -3.46e-02
## 1707  1.38e-03  7.36e-05  1.32e-04 -1.33e-03 -2.59e-03  1.85e-04 -1.92e-03
## 1708 -7.10e-03 -4.60e-05 -2.53e-03  3.27e-03  8.18e-03 -1.00e-04  5.45e-03
## 1709 -6.03e-04  7.36e-05 -7.95e-04 -7.49e-04 -4.02e-03  2.29e-04 -9.31e-04
## 1710  6.73e-04 -1.85e-04  9.98e-04  1.05e-03  7.79e-03 -3.63e-04  1.31e-03
## 1711  5.88e-04  6.74e-04 -3.23e-04 -2.12e-03  7.04e-03  9.47e-04 -3.22e-03
## 1712  2.51e-03  1.46e-03 -7.77e-04 -5.73e-03  5.93e-03  1.88e-03 -6.90e-03
## 1713  4.94e-03 -7.86e-04  2.37e-03 -4.19e-04 -2.93e-03 -9.27e-04 -1.20e-03
## 1714  4.08e-04 -1.47e-05  1.77e-04 -1.16e-04 -3.63e-04 -2.08e-05 -2.17e-04
## 1715 -5.57e-04 -1.24e-04 -3.23e-03 -3.21e-04 -2.21e-04 -1.85e-01 -4.40e-04
## 1716  5.67e-04  1.95e-04 -1.14e-03 -2.60e-04 -4.95e-04 -1.01e-01 -4.19e-04
## 1717 -1.70e-04 -3.78e-05 -9.83e-04 -9.77e-05 -6.73e-05 -5.63e-02 -1.34e-04
## 1718  1.29e-02  4.83e-03 -5.95e-03  1.53e-04  1.95e-03  2.27e-03  3.89e-04
## 1719  7.69e-04 -5.33e-05  2.49e-04 -3.41e-04 -8.37e-04 -4.44e-05 -5.25e-04
## 1720 -2.33e-02 -1.10e-02 -5.00e-02 -4.43e-04 -5.87e-03 -2.66e-03 -3.83e-03
## 1721 -6.22e-03  1.13e-03 -3.19e-03  5.44e-05  3.22e-03  1.33e-03  1.13e-03
## 1722 -8.33e-03  2.61e-04 -3.54e-03  2.54e-03  7.86e-03  3.34e-04  4.87e-03
## 1723 -1.87e-03  2.15e-04 -7.61e-04  4.69e-04  1.50e-03  2.39e-04  8.00e-04
## 1724 -4.06e-03 -5.72e-04 -4.38e-04  4.32e-03  1.04e-02 -1.24e-03  8.59e-03
## 1725 -1.06e-04  6.75e-04  1.36e-03 -1.32e-03 -2.48e-03  7.91e-04  2.74e-02
## 1726  6.47e-04  2.61e-04  5.16e-04 -3.45e-04  1.07e-02  3.16e-04 -9.56e-04
## 1727 -2.01e-05  1.37e-05 -3.99e-05 -1.76e-03 -6.98e-05  2.25e-05 -6.68e-05
## 1728  5.25e-03  7.86e-05  1.78e-03 -2.72e-03 -7.81e-03  3.55e-04 -5.80e-03
## 1729  1.14e-03  1.27e-04  1.91e-04 -1.03e-03 -2.12e-03  2.08e-04 -1.60e-03
## 1730  4.50e-03 -3.51e-04  2.29e-03 -4.95e-04 -2.84e-03 -5.19e-04 -1.35e-03
## 1731 -2.52e-05  1.70e-07 -9.57e-06  1.03e-05  2.80e-05  1.08e-08  1.85e-05
## 1732 -1.64e-04 -6.89e-05 -1.22e-04  6.14e-05 -1.13e-03 -6.60e-05  1.63e-04
## 1733  1.56e-03  1.23e-03 -7.13e-04 -4.44e-03  7.74e-03  1.67e-03 -5.90e-03
## 1734  9.90e-04 -1.25e-04 -2.01e-03 -1.25e-03 -9.79e-04 -7.64e-05 -3.00e-02
## 1735  3.52e-03  1.70e-04  9.82e-04 -2.28e-03 -5.61e-03  3.69e-04 -4.18e-03
## 1736  8.24e-04  1.44e-04  4.99e-04 -3.06e-04  6.43e-03  1.14e-04 -4.05e-04
## 1737 -4.00e-02 -4.20e-04  9.09e-02  7.60e-03  2.02e-02 -2.31e-03  1.39e-02
## 1738  6.81e-03  8.34e-04 -1.99e-04 -8.49e-03 -1.55e-02  1.62e-03 -1.19e-02
## 1739  5.57e-04  8.66e-05  2.49e-04 -3.03e-04  2.62e-03  6.02e-05 -2.61e-04
## 1740  2.32e-03  4.26e-05  3.42e-04 -1.95e-03 -4.05e-03  2.13e-04 -2.97e-03
## 1741 -5.54e-04  4.33e-05 -4.72e-04 -2.21e-04 -3.22e-03  1.36e-04 -4.32e-04
## 1742  1.39e-02  4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02  2.42e-03 -4.73e-03

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## 1743 1.49e-02 6.15e-03 -7.94e-03 -1.66e-03 -4.84e-04 3.42e-03 -2.13e-03
## 1744 2.95e-02 1.07e-02 -1.29e-02 6.19e-04 4.98e-03 4.84e-03 1.64e-03
## 1745 6.33e-03 -3.56e-04 2.98e-03 -1.27e-03 -4.87e-03 -5.15e-04 -2.69e-03
## 1746 4.38e-02 2.35e-02 9.28e-02 -4.24e-03 6.35e-04 8.75e-03 -3.08e-03
## 1747 9.96e-03 3.93e-03 -4.23e-03 -4.50e-04 3.15e-04 2.06e-03 -6.97e-04
## 1748 7.27e-03 2.71e-03 -3.36e-03 5.54e-04 1.74e-03 1.20e-03 6.85e-04
## 1749 2.27e-03 8.77e-04 -1.11e-03 7.86e-05 4.02e-04 4.17e-04 8.09e-05
## 1750 1.35e-02 5.50e-03 -7.06e-03 -1.02e-03 2.64e-04 2.95e-03 -1.34e-03
## 1751 2.08e-03 7.76e-04 -7.99e-04 6.36e-05 3.00e-04 3.65e-04 7.15e-05
## 1752 1.76e-02 6.98e-03 -8.87e-03 -6.44e-04 1.34e-03 3.58e-03 -8.38e-04
## 1753 -2.73e-03 -9.21e-04 8.82e-04 -6.48e-04 -1.19e-03 -3.11e-04 -7.67e-04
## 1754 1.71e-03 5.98e-04 -5.91e-04 3.41e-04 6.52e-04 2.23e-04 3.90e-04
## 1755 -1.31e-02 -2.83e-03 2.33e-03 -1.45e-03 7.17e-03 -5.82e-04 -1.29e-03
## 1756 3.45e-03 1.27e-03 -1.55e-03 2.77e-04 8.53e-04 5.49e-04 3.68e-04
## 1757 4.09e-03 1.52e-03 -1.57e-03 1.25e-04 5.87e-04 7.16e-04 1.40e-04
## 1758 -1.00e-02 -3.62e-03 3.65e-03 -6.73e-04 -1.98e-03 -1.60e-03 -8.40e-04
## 1759 7.89e-03 3.09e-03 -3.32e-03 1.27e-04 9.07e-04 1.54e-03 -5.92e-05
## 1760 1.22e-02 5.14e-03 -5.80e-03 -1.55e-03 -1.12e-03 2.97e-03 -2.30e-03
## 1761 2.18e-02 7.74e-03 -9.38e-03 3.34e-03 7.65e-03 3.01e-03 4.21e-03
## 1762 8.34e-04 3.22e-04 4.44e-04 -7.04e-04 9.71e-03 3.83e-04 -1.25e-03
## 1763 1.64e-03 5.82e-04 1.16e-04 -2.28e-03 5.29e-03 6.70e-04 -2.53e-03
## 1764 8.67e-04 8.84e-05 5.47e-04 -1.81e-04 5.62e-03 2.42e-05 -1.26e-04
## 1765 -5.35e-04 2.11e-04 -1.84e-03 -1.37e-03 -1.92e-03 5.04e-04 -1.62e-02
## 1766 -2.32e-03 2.66e-04 -9.42e-04 5.92e-04 1.89e-03 2.94e-04 1.02e-03
## 1767 3.10e-03 -1.74e-04 8.73e-04 -1.65e-03 -4.02e-03 -6.39e-05 -2.72e-03
## 1768 6.06e-03 -2.05e-04 2.60e-03 -1.78e-03 -5.55e-03 -2.77e-04 -3.38e-03
## 1769 2.27e-03 1.29e-04 6.01e-04 -1.52e-03 -3.38e-03 2.16e-04 -2.43e-03
## 1770 2.27e-03 1.29e-04 6.01e-04 -1.52e-03 -3.38e-03 2.16e-04 -2.43e-03
## 1771 6.96e-03 -6.77e-04 3.79e-03 -2.16e-04 -3.65e-03 -9.95e-04 -1.43e-03
## 1772 -2.55e-03 -1.87e-04 -5.91e-04 1.97e-03 5.08e-03 -4.55e-04 4.03e-03
## 1773 4.77e-05 4.16e-05 3.62e-05 -4.70e-05 5.34e-04 4.81e-05 -1.27e-04
## 1774 2.72e-04 6.94e-05 9.96e-04 -6.58e-04 -7.05e-04 3.35e-05 1.93e-02
## 1775 -8.88e-05 -2.95e-05 1.73e-04 3.90e-05 7.38e-05 1.54e-02 6.16e-05
## 1776 -1.08e-03 -3.60e-04 2.11e-03 4.75e-04 9.01e-04 1.88e-01 7.52e-04
## 1777 1.96e-04 6.49e-05 -3.80e-04 -8.56e-05 -1.62e-04 -3.39e-02 -1.35e-04
## 1778 -7.78e-04 -2.59e-04 1.51e-03 3.42e-04 6.47e-04 1.35e-01 5.40e-04
## 1779 4.13e-04 9.99e-05 2.49e-03 2.40e-04 1.53e-04 1.43e-01 3.17e-04
## 1780 -3.05e-05 -1.01e-05 5.92e-05 1.34e-05 2.53e-05 5.28e-03 2.11e-05
## 1781 4.08e-04 9.86e-05 2.46e-03 2.37e-04 1.51e-04 1.42e-01 3.13e-04
## 1782 -1.68e-04 -5.57e-05 3.26e-04 7.36e-05 1.39e-04 2.91e-02 1.16e-04
## 1783 -1.55e-03 -8.73e-04 -2.99e-04 2.20e-03 -5.44e-03 -1.00e-03 3.15e-03
## 1784 -3.57e-04 9.28e-05 -1.09e-03 -6.85e-04 -9.61e-04 2.59e-04 -9.93e-03
## 1785 -3.85e-03 -5.39e-04 -2.86e-03 -2.21e-05 -1.63e-02 -9.90e-05 -1.63e-04
## 1786 5.65e-03 -1.49e-04 2.35e-03 -1.86e-03 -5.67e-03 -1.61e-04 -3.62e-03
## 1787 7.90e-04 3.05e-04 4.13e-04 -5.29e-04 3.67e-03 2.97e-04 -8.46e-04
## 1788 -1.14e-03 1.49e-04 -3.52e-03 -1.74e-03 -2.36e-03 6.33e-04 -3.45e-02
## 1789 1.54e-03 5.57e-04 3.08e-04 -1.89e-03 8.58e-03 6.48e-04 -2.35e-03
## 1790 1.02e-03 7.03e-04 -2.05e-04 -2.39e-03 6.86e-03 9.34e-04 -3.27e-03
## 1791 1.97e-03 -2.26e-04 1.13e-03 7.42e-05 -9.02e-04 -3.23e-04 -2.99e-04
## 1792 -6.91e-04 1.80e-04 -2.41e-03 -8.68e-02 -3.10e-03 5.71e-04 -2.52e-03
## 1793 -6.98e-04 3.17e-05 -1.73e-04 4.26e-04 1.03e-03 -7.39e-06 7.30e-04
## 1794 -3.06e-03 3.11e-04 -1.69e-03 3.33e-05 1.42e-03 4.74e-04 4.46e-04
## 1795 4.62e-03 1.78e-03 -1.86e-03 -2.94e-04 5.84e-05 9.19e-04 -3.30e-04
## 1796 -1.16e-03 -1.75e-04 1.86e-03 -3.48e-04 -2.88e-04 2.00e-01 -3.18e-04

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## 1797 -5.08e-03 -1.72e-03 2.00e-03 -6.63e-04 -1.66e-03 -6.41e-04 -9.91e-04
## 1798 -1.70e-02 -1.21e-03 5.55e-02 -5.13e-03 -3.44e-02 -1.28e-03 -4.65e-03
## 1799 1.63e-02 -9.96e-04 7.82e-03 -2.92e-03 -1.16e-02 -1.51e-03 -6.03e-03
## 1800 -4.63e-02 -5.19e-04 9.42e-02 3.06e-03 1.61e-02 -1.59e-03 9.71e-03
## 1801 -4.63e-02 -5.19e-04 9.42e-02 3.06e-03 1.61e-02 -1.59e-03 9.71e-03
## 1802 1.10e-02 4.24e-03 -5.28e-03 -2.95e-04 1.04e-03 2.10e-03 -2.36e-04
## 1803 1.15e-03 4.50e-05 1.03e-03 4.42e-04 5.32e-03 -1.43e-04 6.45e-04
## 1804 1.19e-02 2.82e-03 -3.36e-03 3.48e-04 -8.37e-03 8.87e-04 -1.56e-04
## 1805 1.10e-02 3.55e-03 -4.03e-03 2.23e-03 4.74e-03 1.12e-03 3.14e-03
## 1806 -4.31e-03 -2.77e-05 -1.54e-03 1.95e-03 4.60e-03 -7.68e-06 2.93e-03
## 1807 5.14e-02 1.65e-02 8.60e-02 -7.50e-03 -6.34e-02 3.83e-03 -1.02e-02
## 1808 2.14e-02 5.56e-03 -6.87e-03 -1.82e-03 -1.83e-02 2.39e-03 -3.25e-03
## 1809 1.09e-03 3.36e-04 2.73e-04 -1.16e-03 5.59e-03 3.70e-04 -1.37e-03
## 1810 -1.95e-02 -2.67e-03 6.53e-02 -4.03e-04 -3.12e-02 -3.38e-03 1.62e-03
## 1811 1.34e-05 3.69e-05 3.49e-06 -1.29e-04 9.68e-04 -4.22e-07 -5.37e-06
## 1812 1.69e-02 4.55e-03 -5.92e-03 -2.70e-03 -4.80e-03 2.39e-03 -2.75e-02
## 1813 1.66e-02 3.97e-03 -3.98e-03 -4.86e-02 -1.46e-03 1.50e-03 -1.30e-03
## 1814 -2.98e-02 -6.74e-03 7.70e-03 -1.16e-03 1.97e-02 -1.87e-03 -4.91e-04
## 1815 -2.59e-04 -2.20e-04 -7.28e-05 -1.67e-02 9.33e-04 -2.56e-04 8.39e-04
## 1816 1.94e-03 -4.07e-05 4.01e-04 -1.37e-03 -3.11e-03 8.69e-05 -2.25e-03
## 1817 1.76e-03 6.06e-05 1.81e-03 1.03e-03 9.97e-03 -2.50e-04 1.23e-03
## 1818 1.34e-03 -5.82e-05 5.97e-04 -3.70e-04 -1.48e-03 -3.37e-05 -1.02e-03
## 1819 -6.63e-05 1.01e-04 -4.04e-04 -3.39e-04 -5.47e-04 1.68e-04 -4.34e-03
## 1820 1.90e-04 1.38e-05 1.90e-03 8.81e-04 9.82e-04 -1.75e-04 2.19e-02
## 1821 -9.99e-04 -5.71e-04 -9.70e-04 2.47e-04 -1.02e-02 -5.84e-04 1.35e-03
## 1822 5.19e-04 1.93e-05 3.94e-04 3.86e-05 3.67e-03 -3.62e-05 1.08e-04
## 1823 -1.30e-03 -4.21e-05 -1.70e-04 1.14e-03 2.29e-03 -1.35e-04 1.68e-03
## 1824 2.64e-03 -4.55e-04 3.93e-03 4.14e-03 2.02e-02 -1.22e-03 4.98e-03
## 1825 5.25e-03 -1.65e-04 2.23e-03 -1.56e-03 -4.40e-03 -2.91e-04 -2.49e-03
## 1826 2.98e-04 2.16e-05 2.97e-03 1.38e-03 1.53e-03 -2.73e-04 3.42e-02
## 1827 -2.95e-03 3.93e-04 -1.26e-03 6.08e-04 2.36e-03 4.18e-04 1.27e-03
## 1828 -9.00e-04 -3.03e-05 -2.80e-03 -9.19e-04 -1.15e-03 3.02e-04 -2.98e-02
## 1829 -1.93e-03 -3.27e-04 -1.63e-03 -2.39e-04 -1.04e-02 -1.08e-04 -5.73e-05
## 1830 1.78e-03 -4.85e-04 6.28e-03 3.94e-03 5.40e-03 -1.40e-03 5.91e-02
## 1831 1.16e-04 -5.26e-05 -1.53e-05 -7.11e-03 1.14e-04 -7.67e-05 1.90e-04
## 1832 -1.52e-04 5.47e-06 -6.58e-05 4.31e-05 1.35e-04 7.74e-06 8.08e-05
## 1833 -5.20e-04 4.87e-04 -2.17e-03 -1.53e-03 -2.57e-03 8.41e-04 -2.38e-02
## 1834 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 1835 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 1836 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 1837 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 1838 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 1839 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 1840 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 1841 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 1842 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 1843 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 1844 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 1845 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 1846 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 1847 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 1848 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 1849 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 1850 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03

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## 1851 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 1852 6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04 4.37e-04 4.02e-04 -5.60e-04
## 1853 5.03e-04 -2.55e-05 -6.64e-04 -5.63e-04 -4.73e-04 -2.06e-05 -1.04e-02
## 1854 1.63e-03 1.45e-04 -2.66e-05 -1.97e-03 -3.98e-03 3.82e-04 -3.13e-03
## 1855 -6.61e-03 -7.93e-04 -9.97e-04 6.15e-03 1.23e-02 -1.26e-03 9.31e-03
## 1856 -1.00e-02 -9.44e-05 -3.52e-03 4.74e-03 1.19e-02 -2.05e-04 7.99e-03
## 1857 -9.63e-03 1.68e-04 -3.85e-03 3.47e-03 9.55e-03 2.34e-04 5.99e-03
## 1858 -2.90e-03 -2.64e-05 -1.02e-03 1.35e-03 3.17e-03 -2.14e-05 2.05e-03
## 1859 2.58e-03 -3.44e-04 1.10e-03 -5.19e-04 -2.03e-03 -3.70e-04 -1.08e-03
## 1860 2.79e-04 -1.21e-05 7.63e-05 -1.56e-04 -3.55e-04 -4.30e-06 -2.37e-04
## 1861 -2.79e-03 -2.58e-04 -2.30e-03 -5.46e-04 -1.25e-02 1.28e-04 -8.22e-04
## 1862 1.52e-03 -2.09e-04 1.83e-03 1.65e-03 8.44e-03 -5.92e-04 2.27e-03
## 1863 5.78e-03 -2.41e-04 2.56e-03 -1.55e-03 -5.51e-03 -2.64e-04 -3.48e-03
## 1864 5.30e-03 -9.61e-04 2.69e-03 -8.91e-05 -2.88e-03 -1.11e-03 -1.09e-03
## 1865 9.43e-03 8.57e-04 1.91e-03 -7.75e-03 -1.72e-02 1.55e-03 -1.31e-02
## 1866 1.68e-03 5.49e-04 3.04e-04 -2.01e-03 7.38e-03 6.16e-04 -2.30e-03
## 1867 8.50e-04 4.78e-04 1.64e-04 -1.20e-03 2.98e-03 5.48e-04 -1.73e-03
## 1868 -2.65e-05 3.77e-04 5.08e-04 -1.87e-03 -2.54e-03 5.30e-04 2.10e-02
## 1869 -3.90e-04 1.12e-06 -4.51e-04 -3.24e-04 -2.50e-03 7.97e-05 -3.72e-04
## 1870 -9.64e-04 1.30e-04 -4.20e-04 1.78e-04 7.13e-04 1.45e-04 3.61e-04
## 1871 -3.22e-03 3.54e-04 -1.24e-03 9.56e-04 2.97e-03 3.51e-04 1.73e-03
## 1872 -5.98e-03 9.43e-04 -2.82e-03 6.16e-04 3.86e-03 1.07e-03 1.75e-03
## 1873 -8.27e-03 8.80e-04 -4.64e-03 -1.12e-04 3.20e-03 1.40e-03 5.93e-04
## 1874 -5.93e-04 5.28e-05 -2.10e-04 2.21e-04 5.97e-04 4.90e-05 3.64e-04
## 1875 -6.61e-03 -7.93e-04 -9.97e-04 6.15e-03 1.23e-02 -1.26e-03 9.31e-03
## 1876 -1.00e-02 -9.44e-05 -3.52e-03 4.74e-03 1.19e-02 -2.05e-04 7.99e-03
## 1877 -3.34e-03 -4.86e-04 -2.81e-03 -4.90e-04 -1.71e-02 -8.03e-05 -3.76e-04
## 1878 -9.63e-03 1.68e-04 -3.85e-03 3.47e-03 9.55e-03 2.34e-04 5.99e-03
## 1879 -2.90e-03 -2.64e-05 -1.02e-03 1.35e-03 3.17e-03 -2.14e-05 2.05e-03
## 1880 2.58e-03 -3.44e-04 1.10e-03 -5.19e-04 -2.03e-03 -3.70e-04 -1.08e-03
## 1881 2.79e-04 -1.21e-05 7.63e-05 -1.56e-04 -3.55e-04 -4.30e-06 -2.37e-04
## 1882 -2.79e-03 -2.58e-04 -2.30e-03 -5.46e-04 -1.25e-02 1.28e-04 -8.22e-04
## 1883 7.62e-03 -1.22e-03 3.72e-03 -5.16e-04 -4.13e-03 -1.49e-03 -1.48e-03
## 1884 1.52e-03 -2.09e-04 1.83e-03 1.65e-03 8.44e-03 -5.92e-04 2.27e-03
## 1885 5.78e-03 -2.41e-04 2.56e-03 -1.55e-03 -5.51e-03 -2.64e-04 -3.48e-03
## 1886 1.19e-02 4.54e-04 3.57e-03 -7.08e-03 -1.65e-02 8.14e-04 -1.17e-02
## 1887 5.30e-03 -9.61e-04 2.69e-03 -8.91e-05 -2.88e-03 -1.11e-03 -1.09e-03
## 1888 9.43e-03 8.57e-04 1.91e-03 -7.75e-03 -1.72e-02 1.55e-03 -1.31e-02
## 1889 -1.89e-03 9.61e-05 -5.00e-04 1.08e-03 2.62e-03 9.47e-06 1.82e-03
## 1890 1.68e-03 5.49e-04 3.04e-04 -2.01e-03 7.38e-03 6.16e-04 -2.30e-03
## 1891 8.50e-04 4.78e-04 1.64e-04 -1.20e-03 2.98e-03 5.48e-04 -1.73e-03
## 1892 4.87e-05 -1.25e-05 6.31e-05 6.28e-05 4.34e-04 -2.49e-05 8.68e-05
## 1893 1.02e-03 2.43e-04 2.80e-04 -9.32e-04 3.89e-03 2.37e-04 -9.39e-04
## 1894 -2.65e-05 3.77e-04 5.08e-04 -1.87e-03 -2.54e-03 5.30e-04 2.10e-02
## 1895 -1.17e-04 3.39e-05 2.90e-04 -2.05e-04 -2.75e-04 5.24e-05 7.39e-03
## 1896 -1.38e-03 -2.39e-04 -1.17e-03 -1.68e-04 -7.51e-03 -8.25e-05 -2.74e-05
## 1897 -1.90e-03 1.93e-04 -1.05e-03 2.06e-05 8.77e-04 2.94e-04 2.76e-04
## 1898 4.09e-03 4.11e-04 9.53e-05 -4.62e-03 -8.41e-03 7.83e-04 -6.31e-03
## 1899 -2.93e-03 -1.90e-05 -1.04e-03 1.35e-03 3.37e-03 -4.14e-05 2.25e-03
## 1900 -9.95e-04 -3.90e-04 -6.18e-04 5.27e-04 -5.52e-03 -3.74e-04 1.00e-03
## 1901 -5.17e-03 -7.79e-04 -4.90e-04 5.51e-03 1.11e-02 -1.29e-03 8.63e-03
## 1902 -9.24e-04 -3.82e-04 -8.52e-04 9.34e-05 -7.67e-03 -3.48e-04 7.44e-04
## 1903 8.42e-03 3.71e-03 -4.95e-03 -1.41e-03 -1.01e-03 2.21e-03 -1.98e-03
## 1904 2.61e-02 1.50e-02 5.71e-02 -3.24e-03 -8.75e-04 6.01e-03 -3.55e-03

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## 1905 3.04e-02 1.77e-02 6.55e-02 -5.38e-03 -3.32e-03 7.50e-03 -6.09e-03
## 1906 1.16e-02 4.65e-03 -5.92e-03 -8.14e-04 3.45e-04 2.46e-03 -9.83e-04
## 1907 1.36e-02 4.74e-03 -5.50e-03 4.57e-04 2.62e-03 2.01e-03 1.24e-03
## 1908 9.10e-03 2.51e-03 -2.56e-03 -1.64e-03 -8.53e-03 1.28e-03 -2.35e-03
## 1909 -5.16e-03 6.42e-04 -3.06e-03 -4.51e-04 1.48e-03 1.01e-03 -8.69e-05
## 1910 -1.77e-03 1.07e-04 -5.23e-04 8.89e-04 2.17e-03 5.85e-05 1.44e-03
## 1911 -3.13e-02 -1.20e-03 7.07e-02 4.82e-03 1.62e-02 -2.70e-03 1.20e-02
## 1912 -4.27e-02 -6.87e-04 8.97e-02 3.35e-03 1.62e-02 -1.92e-03 1.04e-02
## 1913 -4.93e-02 4.72e-04 9.92e-02 -1.09e-03 1.10e-02 -1.92e-04 4.96e-03
## 1914 7.38e-04 3.79e-04 4.14e-05 -1.25e-03 5.03e-03 4.80e-04 -1.69e-03
## 1915 8.67e-03 -1.02e-03 5.03e-03 4.32e-04 -3.60e-03 -1.49e-03 -9.56e-04
## 1916 5.74e-02 7.34e-04 -1.18e-01 -4.02e-03 -2.05e-02 2.17e-03 -1.27e-02
## 1917 -3.15e-03 4.31e-04 -1.40e-03 5.36e-04 2.21e-03 4.95e-04 1.07e-03
## 1918 -9.20e-03 -5.22e-04 -2.45e-03 6.06e-03 1.24e-02 -6.89e-04 8.55e-03
## 1919 7.74e-04 3.46e-06 1.43e-04 -5.86e-04 -1.21e-03 4.52e-05 -8.62e-04
## 1920 -2.18e-03 -6.48e-04 -1.39e-03 8.06e-04 -1.05e-02 -5.37e-04 1.39e-03
## 1921 7.81e-04 5.18e-05 5.97e-04 2.05e-05 6.11e-03 -1.99e-05 5.78e-05
## 1922 9.83e-04 -9.88e-05 1.03e-03 6.85e-04 8.45e-03 -2.73e-04 9.48e-04
## 1923 1.02e-03 4.94e-04 1.23e-05 -1.73e-03 5.51e-03 6.19e-04 -2.22e-03
## 1924 2.17e-05 2.97e-04 -1.70e-04 -6.90e-04 1.25e-03 4.13e-04 -1.26e-03
## 1925 -1.05e-02 -1.36e-04 -3.63e-03 5.07e-03 1.19e-02 -1.63e-04 7.81e-03
## 1926 -5.43e-03 1.12e-03 -3.07e-03 -6.08e-04 1.63e-03 1.41e-03 -1.09e-04
## 1927 7.83e-03 -1.42e-03 3.98e-03 -1.32e-04 -4.26e-03 -1.64e-03 -1.62e-03
## 1928 6.76e-03 1.29e-03 -9.01e-04 -1.01e-02 -1.72e-02 2.17e-03 -1.34e-02
## 1929 -4.23e-04 -3.19e-05 -2.71e-04 6.31e-05 -2.54e-03 5.31e-06 7.61e-06
## 1930 2.28e-04 -4.17e-05 1.21e-04 6.97e-06 -8.91e-05 -5.27e-05 -1.34e-05
## 1931 -9.68e-04 6.50e-05 -3.06e-04 4.43e-04 1.09e-03 5.02e-05 6.91e-04
## 1932 -4.89e-03 -3.69e-04 -1.13e-03 3.65e-03 7.77e-03 -5.94e-04 5.68e-03
## 1933 1.80e-03 5.66e-04 2.74e-04 -2.18e-03 6.52e-03 6.26e-04 -2.39e-03
## 1934 6.43e-04 5.21e-04 -4.33e-04 5.85e-02 -3.57e-03 7.35e-04 -3.06e-03
## 1935 1.56e-03 1.31e-04 3.39e-04 -1.22e-03 -2.61e-03 2.16e-04 -1.93e-03
## 1936 -8.83e-04 4.12e-04 -1.47e-03 -1.89e-03 -8.75e-03 7.34e-04 -2.57e-03
## 1937 1.58e-04 2.12e-05 9.79e-05 -4.44e-05 1.12e-03 1.22e-05 -4.74e-05
## 1938 -2.40e-03 -8.94e-04 -7.90e-04 2.27e-03 -6.92e-03 -9.02e-04 2.88e-03
## 1939 2.34e-03 2.64e-04 -1.28e-05 -2.80e-03 -5.11e-03 5.08e-04 -3.89e-03
## 1940 3.46e-03 4.34e-04 -4.19e-05 -4.20e-03 -7.40e-03 7.61e-04 -5.58e-03
## 1941 1.09e-03 6.73e-05 8.09e-05 -1.10e-03 -2.15e-03 1.66e-04 -1.61e-03
## 1942 3.81e-05 5.77e-04 4.17e-04 -2.78e-03 -3.81e-03 8.15e-04 2.47e-02
## 1943 -7.59e-04 4.35e-04 -7.18e-04 -1.37e-03 4.00e-03 4.59e-04 -1.48e-03
## 1944 4.19e-03 2.77e-03 -2.06e-03 -1.11e-02 5.30e-03 3.65e-03 -1.34e-02
## 1945 -3.20e-03 -5.53e-04 -2.72e-03 -3.89e-04 -1.74e-02 -1.91e-04 -6.35e-05
## 1946 3.06e-03 -6.32e-04 1.69e-03 2.49e-04 -1.26e-03 -7.50e-04 -2.75e-04
## 1947 -6.57e-05 2.25e-05 -9.82e-05 -1.12e-04 -6.67e-04 4.22e-05 -1.49e-04
## 1948 3.94e-04 -7.34e-05 4.15e-04 3.36e-04 2.59e-03 -1.61e-04 5.37e-04
## 1949 -2.81e-04 2.40e-04 3.15e-04 -1.12e-03 -1.59e-03 3.69e-04 1.51e-02
## 1950 -5.99e-04 1.16e-06 -2.22e-04 2.58e-04 6.96e-04 -6.19e-06 4.70e-04
## 1951 -1.69e-04 -2.16e-05 -1.93e-04 -1.07e-04 -1.27e-03 4.57e-06 -7.73e-05
## 1952 -1.89e-03 -1.89e-04 -1.78e-03 -6.88e-04 -1.05e-02 8.71e-05 -7.07e-04
## 1953 -6.96e-03 -4.86e-04 -1.67e-03 5.13e-03 1.19e-02 -9.41e-04 8.97e-03
## 1954 -2.35e-03 2.52e-04 -7.14e-04 1.10e-03 3.55e-03 6.65e-05 2.60e-03
## 1955 1.51e-03 -2.76e-04 8.00e-04 4.61e-05 -5.90e-04 -3.49e-04 -8.87e-05
## 1956 -5.36e-04 9.81e-05 -2.83e-04 -1.28e-05 2.22e-04 1.22e-04 4.29e-05
## 1957 -1.44e-03 1.87e-04 -4.44e-03 -2.19e-03 -2.97e-03 7.97e-04 -4.34e-02
## 1958 3.14e-03 1.53e-04 3.36e-04 -2.94e-03 -5.71e-03 3.87e-04 -4.20e-03

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## 1959 -3.02e-03 -4.91e-04 -2.24e-03 7.45e-05 -1.34e-02 -1.69e-04 1.22e-04
## 1960 6.98e-04 5.62e-05 1.07e-03 -7.25e-04 -6.77e-04 -3.74e-05 1.72e-02
## 1961 2.87e-03 -3.92e-04 1.27e-03 -5.00e-04 -2.05e-03 -4.47e-04 -1.00e-03
## 1962 -2.60e-04 7.06e-05 -9.15e-04 -5.73e-04 -7.86e-04 2.04e-04 -8.60e-03
## 1963 -1.06e-03 -2.13e-04 -6.28e-04 3.30e-04 -3.72e-03 -1.28e-04 3.42e-04
## 1964 4.36e-03 -6.24e-04 2.74e-03 7.10e-04 -8.03e-04 -9.67e-04 4.68e-04
## 1965 -4.65e-06 3.78e-07 -2.40e-06 4.40e-07 2.73e-06 5.76e-07 1.20e-06
## 1966 -3.86e-04 -9.57e-06 -1.25e-04 2.04e-04 4.54e-04 -1.13e-05 3.00e-04
## 1967 1.12e-03 -1.88e-05 2.48e-04 -7.58e-04 -1.64e-03 3.22e-05 -1.14e-03
## 1968 -1.47e-03 1.44e-04 -8.04e-04 4.20e-05 7.62e-04 2.13e-04 2.93e-04
## 1969 4.27e-05 -4.15e-05 2.20e-04 1.21e-04 2.12e-04 -7.28e-05 2.72e-03
## 1970 -5.38e-03 -4.89e-04 -1.09e-03 4.42e-03 9.80e-03 -8.87e-04 7.47e-03
## 1971 7.00e-04 6.72e-04 7.71e-04 -2.09e-03 -3.15e-03 7.66e-04 1.70e-02
## 1972 8.67e-03 -1.02e-03 5.03e-03 4.32e-04 -3.60e-03 -1.49e-03 -9.56e-04
## 1973 1.20e-03 7.75e-04 5.29e-04 -4.03e-03 -5.23e-03 9.62e-04 2.45e-02
## 1974 3.76e-03 -6.04e-04 1.85e-03 -2.24e-04 -1.95e-03 -7.46e-04 -6.46e-04
## 1975 2.66e-02 -3.28e-03 1.57e-02 2.19e-03 -8.05e-03 -5.09e-03 3.04e-06
## 1976 -3.28e-03 3.11e-05 -1.26e-03 1.33e-03 3.94e-03 -3.54e-05 2.73e-03
## 1977 -1.38e-05 1.77e-06 -5.57e-06 3.50e-06 1.28e-05 1.67e-06 7.63e-06
## 1978 5.74e-02 7.34e-04 -1.18e-01 -4.02e-03 -2.05e-02 2.17e-03 -1.27e-02
## 1979 -3.15e-03 4.31e-04 -1.40e-03 5.36e-04 2.21e-03 4.95e-04 1.07e-03
## 1980 -2.04e-03 3.24e-04 -9.72e-04 1.92e-04 1.26e-03 3.75e-04 5.47e-04
## 1981 1.12e-03 -1.88e-05 2.48e-04 -7.58e-04 -1.64e-03 3.22e-05 -1.14e-03
## 1982 -8.48e-04 1.57e-04 -9.15e-04 -7.50e-04 -5.96e-03 3.44e-04 -1.16e-03
## 1983 -4.86e-04 1.00e-04 -2.75e-04 -5.44e-05 1.45e-04 1.26e-04 -9.74e-06
## 1984 -9.20e-03 -5.22e-04 -2.45e-03 6.06e-03 1.24e-02 -6.89e-04 8.55e-03
## 1985 3.95e-04 2.52e-05 2.55e-04 -4.86e-05 2.29e-03 -1.19e-05 1.48e-05
## 1986 6.97e-04 8.03e-05 3.76e-04 -2.45e-04 3.68e-03 3.31e-05 -1.70e-04
## 1987 7.74e-04 3.46e-06 1.43e-04 -5.86e-04 -1.21e-03 4.52e-05 -8.62e-04
## 1988 1.64e-03 -1.54e-04 8.80e-04 -7.91e-05 -9.47e-04 -2.18e-04 -4.24e-04
## 1989 -1.89e-02 -3.68e-04 4.06e-02 1.64e-03 7.58e-03 -9.92e-04 5.08e-03
## 1990 3.50e-03 4.83e-04 1.62e-03 -1.73e-03 1.58e-02 2.85e-04 -1.33e-03
## 1991 -2.18e-03 -6.48e-04 -1.39e-03 8.06e-04 -1.05e-02 -5.37e-04 1.39e-03
## 1992 -8.58e-03 -1.02e-04 -2.97e-03 4.23e-03 1.13e-02 -3.53e-04 7.99e-03
## 1993 -4.53e-03 4.00e-04 -5.22e-03 -4.27e-03 -2.52e-02 1.44e-03 -5.74e-03
## 1994 1.62e-04 1.74e-05 4.38e-04 -2.40e-04 -2.30e-04 -9.17e-06 7.80e-03
## 1995 -2.43e-03 1.75e-04 -7.15e-04 1.22e-03 3.20e-03 7.02e-05 2.20e-03
## 1996 -1.04e-03 1.11e-05 -2.13e-04 7.44e-04 1.61e-03 -4.59e-05 1.14e-03
## 1997 5.67e-05 9.17e-06 3.46e-05 -1.94e-05 4.29e-04 6.74e-06 -2.44e-05
## 1998 -6.57e-03 3.05e-04 -2.97e-03 1.62e-03 5.87e-03 3.76e-04 3.58e-03
## 1999 -8.84e-05 2.17e-06 5.17e-05 6.10e-05 1.63e-03 -5.95e-05 2.28e-04
## 2000 -1.80e-03 2.41e-04 3.12e-03 1.94e-03 1.39e-03 2.07e-04 4.85e-02
## 2001 -2.95e-04 -1.55e-06 -1.06e-04 1.37e-04 3.67e-04 -7.79e-06 2.55e-04
## 2002 8.84e-04 4.54e-04 4.96e-05 -1.49e-03 6.03e-03 5.76e-04 -2.02e-03
## 2003 2.36e-04 4.12e-05 1.43e-04 -8.77e-05 1.84e-03 3.27e-05 -1.16e-04
## 2004 -1.78e-03 -1.78e-04 -3.29e-04 1.55e-03 3.59e-03 -3.53e-04 2.81e-03
## 2005 -2.94e-03 2.74e-06 -1.09e-03 1.28e-03 3.45e-03 -3.70e-05 2.34e-03
## 2006 -3.87e-03 7.04e-04 -1.98e-03 3.39e-05 2.01e-03 8.27e-04 7.02e-04
## 2007 3.82e-04 2.35e-05 2.83e-05 -3.86e-04 -7.51e-04 5.81e-05 -5.64e-04
## 2008 2.95e-03 -2.79e-04 1.59e-03 -1.34e-04 -1.68e-03 -3.98e-04 -7.37e-04
## 2009 -1.45e-03 1.75e-04 -8.53e-04 -9.72e-05 5.20e-04 2.65e-04 7.68e-05
## 2010 -7.11e-03 -3.44e-04 -1.98e-03 4.61e-03 1.13e-02 -7.45e-04 8.45e-03
## 2011 8.38e-04 3.37e-05 9.24e-05 -7.76e-04 -1.56e-03 1.03e-04 -1.16e-03
## 2012 -1.35e-04 -4.14e-06 4.18e-04 -5.92e-05 -5.82e-05 -5.13e-06 8.87e-03

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## 2013 -8.27e-04 -9.15e-05 1.44e-03 2.45e-04 3.31e-04 -8.75e-05 3.08e-02
## 2014 -2.89e-03 -3.97e-04 3.97e-04 2.40e-03 3.61e-03 -1.30e-04 1.71e-03
## 2015 5.71e-06 -5.10e-07 1.26e-06 -3.71e-06 -1.14e-05 2.82e-07 -8.98e-06
## 2016 2.70e-04 1.41e-04 1.31e-04 -3.09e-04 3.80e-03 1.79e-04 -5.79e-04
## 2017 6.71e-03 -1.54e-03 4.09e-03 1.40e-03 -1.04e-03 -1.98e-03 1.00e-03
## 2018 2.51e-03 -1.52e-04 7.42e-04 -1.26e-03 -3.08e-03 -8.30e-05 -2.04e-03
## 2019 3.49e-04 7.88e-05 2.05e-04 -1.70e-04 3.05e-03 7.54e-05 -2.57e-04
## 2020 -6.83e-04 -4.21e-05 -5.06e-05 6.90e-04 1.34e-03 -1.04e-04 1.01e-03
## 2021 -4.86e-03 -6.29e-04 -6.47e-04 4.73e-03 9.47e-03 -1.01e-03 7.24e-03
## 2022 -4.86e-03 -6.29e-04 -6.47e-04 4.73e-03 9.47e-03 -1.01e-03 7.24e-03
## 2023 3.57e-03 9.29e-05 4.52e-04 -3.17e-03 -6.57e-03 3.93e-04 -4.89e-03
## 2024 1.64e-02 6.78e-03 -7.51e-03 -1.93e-03 -1.22e-03 3.84e-03 -2.71e-03
## 2025 2.26e-02 8.87e-03 -1.12e-02 -7.33e-04 1.91e-03 4.49e-03 -8.24e-04
## 2026 8.56e-04 2.91e-04 -2.78e-04 1.48e-04 2.99e-04 1.07e-04 1.85e-04
## 2027 2.29e-02 8.96e-03 -1.13e-02 -7.41e-04 1.93e-03 4.54e-03 -8.33e-04
## 2028 1.16e-02 4.43e-03 -4.65e-03 -6.33e-05 1.06e-03 2.19e-03 -1.50e-04
## 2029 -2.31e-04 1.07e-03 -2.93e-04 -4.78e-03 -6.77e-03 1.58e-03 2.73e-02
## 2030 2.29e-02 8.99e-03 -1.13e-02 -7.43e-04 1.93e-03 4.55e-03 -8.35e-04
## 2031 -2.88e-05 -1.98e-04 -4.69e-04 3.84e-04 7.10e-04 -2.20e-04 -8.62e-03
## 2032 5.01e-04 1.90e-04 -2.33e-04 -2.57e-05 3.22e-05 9.48e-05 -1.81e-05
## 2033 1.28e-02 6.41e-03 2.90e-02 6.00e-04 3.65e-03 1.66e-03 2.09e-03
## 2034 9.02e-03 3.21e-03 -3.16e-03 3.92e-04 1.53e-03 1.42e-03 6.45e-04
## 2035 1.30e-02 -1.56e-03 7.60e-03 8.80e-04 -4.58e-03 -2.37e-03 -6.37e-04
## 2036 -1.30e-02 -3.70e-03 4.78e-03 2.33e-03 1.30e-02 -1.93e-03 3.64e-03
## 2037 -1.28e-02 -3.65e-03 4.72e-03 2.30e-03 1.28e-02 -1.91e-03 3.59e-03
## 2038 1.28e-02 4.68e-03 -4.70e-03 -2.57e-04 1.02e-03 2.24e-03 -3.97e-05
## 2039 1.34e-02 4.43e-03 -5.06e-03 2.26e-03 5.14e-03 1.50e-03 3.29e-03
## 2040 1.69e-02 6.65e-03 -8.37e-03 -1.08e-03 6.85e-04 3.45e-03 -1.17e-03
## 2041 2.06e-02 7.72e-03 -7.97e-03 9.80e-07 2.10e-03 3.73e-03 4.86e-05
## 2042 1.33e-02 4.61e-03 -5.41e-03 1.26e-03 3.66e-03 1.84e-03 2.00e-03
## 2043 2.76e-03 -1.09e-04 6.31e-04 -1.80e-03 -4.33e-03 7.56e-05 -3.14e-03
## 2044 -1.33e-03 -4.51e-04 -5.38e-04 1.04e-03 -4.27e-03 -4.31e-04 1.34e-03
## 2045 1.51e-02 4.00e-03 -5.16e-02 -1.18e-02 6.23e-03 5.73e-03 -1.46e-02
## 2046 -1.64e-03 2.10e-04 -1.58e-03 -1.04e-03 -1.07e-02 5.24e-04 -1.73e-03
## 2047 -6.81e-03 -3.58e-05 -2.44e-03 3.15e-03 8.46e-03 -1.80e-04 5.87e-03
## 2048 -1.64e-03 2.10e-04 -1.58e-03 -1.04e-03 -1.07e-02 5.24e-04 -1.73e-03
## 2049 -2.07e-04 7.91e-05 -1.60e-03 -1.00e-03 -1.26e-03 2.73e-04 -1.68e-02
## 2050 -2.96e-03 1.99e-04 -9.38e-04 1.35e-03 3.32e-03 1.54e-04 2.12e-03
## 2051 -5.77e-03 1.19e-03 -3.28e-03 -6.77e-04 1.61e-03 1.51e-03 -2.30e-04
## 2052 -3.76e-03 7.73e-04 -2.14e-03 -4.41e-04 1.05e-03 9.86e-04 -1.50e-04
## 2053 2.42e-04 -1.87e-06 2.23e-04 8.74e-05 2.09e-03 -3.32e-05 1.17e-04
## 2054 -1.63e-03 -6.29e-04 -8.52e-04 1.09e-03 -7.58e-03 -6.13e-04 1.75e-03
## 2055 1.98e-03 4.89e-04 3.46e-04 -2.10e-03 4.74e-03 4.86e-04 -1.99e-03
## 2056 -2.65e-04 2.26e-04 2.97e-04 -1.06e-03 -1.50e-03 3.48e-04 1.42e-02
## 2057 4.59e-05 -5.61e-05 4.14e-05 1.82e-04 -1.09e-03 -2.61e-05 8.63e-05
## 2058 -2.62e-04 2.01e-06 -2.41e-04 -9.44e-05 -2.26e-03 3.59e-05 -1.26e-04
## 2059 6.42e-04 2.36e-04 1.75e-04 -7.37e-04 4.44e-03 2.76e-04 -9.78e-04
## 2060 -2.88e-04 -3.21e-04 -5.78e-04 8.58e-04 1.36e-03 -3.51e-04 -1.08e-02
## 2061 -4.11e-04 2.17e-04 -1.58e-03 -4.98e-02 -2.45e-03 5.00e-04 -2.05e-03
## 2062 -2.15e-03 1.74e-04 -2.54e-03 -2.09e-03 -1.26e-02 6.70e-04 -2.72e-03
## 2063 1.10e-02 -1.01e-03 5.89e-03 -6.34e-04 -6.70e-03 -1.41e-03 -3.16e-03
## 2064 -3.73e-03 3.88e-04 -2.08e-03 -6.18e-06 1.58e-03 6.04e-04 4.02e-04
## 2065 3.74e-05 -9.94e-06 5.21e-05 5.37e-05 3.86e-04 -1.97e-05 6.99e-05
## 2066 -6.00e-03 6.27e-04 -2.19e-03 2.05e-03 6.20e-03 5.40e-04 3.88e-03

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## 2067 -4.45e-04 3.19e-04 -2.41e-03 -2.07e-03 -2.83e-03 6.93e-04 -2.16e-02
## 2068 -2.02e-03 3.08e-04 -8.83e-04 3.59e-04 1.74e-03 2.97e-04 1.01e-03
## 2069 -2.58e-02 -1.85e-03 8.92e-02 -2.37e-03 -4.72e-02 -2.59e-03 -2.61e-03
## 2070 -1.35e-03 -5.13e-05 -4.03e-04 8.01e-04 1.87e-03 -9.20e-05 1.33e-03
## 2071 8.18e-04 3.07e-04 3.08e-04 -8.40e-04 7.19e-03 3.61e-04 -1.24e-03
## 2072 1.92e-03 -3.97e-04 1.06e-03 1.56e-04 -7.93e-04 -4.71e-04 -1.73e-04
## 2073 2.36e-03 -3.82e-04 1.17e-03 -1.18e-04 -1.16e-03 -4.80e-04 -3.43e-04
## 2074 -9.95e-05 -9.00e-05 -5.39e-06 2.09e-04 -5.49e-04 -1.11e-04 3.41e-04
## 2075 -7.73e-03 6.16e-04 -3.96e-03 7.90e-04 4.71e-03 9.25e-04 2.15e-03
## 2076 -1.54e-03 1.16e-04 -4.72e-04 7.36e-04 1.94e-03 6.02e-05 1.31e-03
## 2077 -1.57e-03 -5.34e-04 5.08e-04 -1.74e-04 -4.19e-04 -2.10e-04 -2.46e-04
## 2078 3.20e-03 -6.59e-04 1.82e-03 3.64e-04 -9.39e-04 -8.35e-04 8.36e-05
## 2079 4.58e-03 1.65e-03 -1.64e-03 1.86e-04 7.50e-04 7.39e-04 2.89e-04
## 2080 -1.22e-03 6.23e-05 -3.24e-04 7.00e-04 1.70e-03 6.14e-06 1.18e-03
## 2081 2.04e-03 7.35e-04 -7.40e-04 2.01e-04 4.91e-04 3.15e-04 2.38e-04
## 2082 3.78e-03 1.43e-03 -1.48e-03 1.03e-04 5.20e-04 6.79e-04 9.47e-05
## 2083 1.74e-03 4.95e-05 1.32e-03 1.54e-04 1.19e-02 -1.44e-04 4.30e-04
## 2084 -1.71e-03 -6.24e-04 6.33e-04 -1.12e-04 -3.31e-04 -2.79e-04 -1.33e-04
## 2085 -3.49e-03 -1.13e-03 1.03e-03 -7.39e-04 -1.43e-03 -3.63e-04 -9.68e-04
## 2086 3.88e-02 1.78e-02 8.38e-02 5.24e-03 1.40e-02 3.80e-03 9.99e-03
## 2087 1.52e-02 5.21e-03 -6.05e-03 1.49e-03 4.29e-03 2.03e-03 2.44e-03
## 2088 2.09e-03 -1.76e-04 7.04e-04 -8.52e-04 -2.28e-03 -1.41e-04 -1.45e-03
## 2089 -2.82e-03 3.18e-04 -1.12e-03 7.70e-04 2.42e-03 3.36e-04 1.36e-03
## 2090 4.01e-02 1.85e-02 9.43e-02 8.87e-03 2.16e-02 2.69e-03 1.56e-02
## 2091 -3.96e-03 6.36e-04 -1.94e-03 2.36e-04 2.05e-03 7.86e-04 6.80e-04
## 2092 4.37e-03 -7.96e-04 2.27e-03 2.89e-05 -2.05e-03 -9.63e-04 -5.83e-04
## 2093 -1.95e-04 -4.95e-05 -9.38e-06 6.52e-05 -7.85e-04 1.71e-05 -1.90e-04
## 2094 3.52e-02 1.73e-02 7.49e-02 8.42e-04 6.87e-03 5.08e-03 3.65e-03
## 2095 3.70e-02 1.77e-02 7.77e-02 1.25e-03 7.90e-03 4.87e-03 4.83e-03
## 2096 -3.03e-03 -3.11e-04 -5.56e-04 2.59e-03 5.18e-03 -4.73e-04 3.82e-03
## 2097 1.03e-03 -1.47e-05 1.92e-04 -7.71e-04 -1.75e-03 6.44e-05 -1.29e-03
## 2098 8.75e-04 1.24e-03 -1.55e-03 7.44e-02 -8.00e-03 1.79e-03 -6.98e-03
## 2099 1.02e-04 2.76e-04 4.96e-04 -1.43e-03 -1.90e-03 3.70e-04 1.69e-02
## 2100 -3.65e-03 4.94e-04 -1.59e-03 6.73e-04 2.70e-03 5.51e-04 1.37e-03
## 2101 -2.49e-03 3.06e-04 -9.43e-04 7.69e-04 2.68e-03 2.43e-04 1.73e-03
## 2102 -5.50e-03 -5.00e-04 -1.11e-03 4.52e-03 1.00e-02 -9.07e-04 7.63e-03
## 2103 -3.44e-03 4.70e-04 -1.52e-03 5.77e-04 2.39e-03 5.43e-04 1.15e-03
## 2104 6.20e-04 -1.94e-05 2.62e-04 -2.06e-04 -7.86e-04 3.84e-06 -5.68e-04
## 2105 -1.63e-03 -8.58e-05 -1.72e-03 -9.72e-04 -9.86e-03 1.97e-04 -1.06e-03
## 2106 -4.85e-03 2.87e-04 -2.31e-03 9.10e-04 3.57e-03 4.27e-04 1.90e-03
## 2107 1.54e-03 -4.02e-05 3.81e-04 -9.45e-04 -2.04e-03 7.40e-06 -1.38e-03
## 2108 4.55e-05 -8.24e-08 9.18e-06 -3.27e-05 -6.77e-05 1.97e-06 -4.73e-05
## 2109 -4.79e-03 8.76e-04 -2.53e-03 -1.30e-04 1.93e-03 1.10e-03 3.32e-04
## 2110 -2.66e-03 -1.01e-04 -7.93e-04 1.60e-03 3.94e-03 -2.18e-04 2.88e-03
## 2111 7.45e-04 7.60e-05 4.70e-04 -1.56e-04 4.83e-03 2.08e-05 -1.08e-04
## 2112 7.80e-04 6.55e-04 -2.82e-04 -2.19e-03 5.99e-03 8.92e-04 -3.10e-03
## 2113 1.67e-03 3.07e-05 2.47e-04 -1.41e-03 -2.92e-03 1.54e-04 -2.14e-03
## 2114 -4.74e-04 1.23e-04 -6.28e-04 -6.32e-04 -4.42e-03 2.45e-04 -8.58e-04
## 2115 -6.17e-04 -4.90e-05 -5.73e-04 -2.29e-04 -3.23e-03 4.49e-05 -2.70e-04
## 2116 5.00e-03 -8.07e-04 2.47e-03 -2.66e-04 -2.50e-03 -1.01e-03 -7.72e-04
## 2117 2.04e-02 5.18e-03 -6.34e-03 -1.15e-03 -1.66e-02 2.08e-03 -2.38e-03
## 2118 2.49e-02 6.63e-03 -8.63e-03 -3.42e-03 -6.32e-03 3.38e-03 -4.02e-02
## 2119 1.48e-02 5.55e-03 -5.81e-03 1.80e-03 3.91e-03 2.44e-03 1.73e-03
## 2120 1.97e-03 5.84e-04 -6.05e-04 3.67e-04 8.29e-04 1.54e-04 6.10e-04

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## 2121 1.21e-04 3.26e-05 -3.36e-05 -1.15e-05 -1.04e-04 1.51e-05 -2.18e-05
## 2122 1.91e-02 5.16e-03 -6.46e-03 -2.67e-03 -1.77e-02 2.46e-03 -4.15e-03
## 2123 -1.26e-04 2.29e-05 -6.37e-05 3.18e-06 7.21e-05 2.60e-05 2.93e-05
## 2124 2.99e-03 -2.39e-04 1.53e-03 -3.06e-04 -1.82e-03 -3.58e-04 -8.33e-04
## 2125 -5.48e-03 -1.35e-03 1.39e-03 1.91e-04 6.64e-04 -5.72e-04 7.83e-03
## 2126 -1.98e-04 2.01e-04 -1.61e-03 -1.40e-03 -1.87e-03 4.38e-04 -1.50e-02
## 2127 7.55e-04 1.88e-04 5.63e-04 -1.07e-04 3.97e-03 1.29e-04 -2.70e-04
## 2128 -9.21e-04 -1.81e-04 -1.90e-03 5.58e-05 1.42e-04 1.88e-05 -2.15e-02
## 2129 -6.02e-04 5.15e-04 6.77e-04 -2.41e-03 -3.42e-03 7.91e-04 3.24e-02
## 2130 -4.03e-02 -1.76e-02 2.01e-02 7.89e-03 7.66e-03 -1.07e-02 1.10e-02
## 2131 1.89e-02 7.46e-03 -7.99e-03 -1.38e-03 -9.30e-05 3.97e-03 -1.80e-03
## 2132 1.54e-03 5.52e-04 -6.60e-04 8.59e-05 3.37e-04 2.37e-04 1.50e-04
## 2133 -4.78e-03 4.97e-04 -2.66e-03 -7.92e-06 2.02e-03 7.74e-04 5.14e-04
## 2134 2.87e-02 1.01e-02 -1.20e-02 3.52e-03 8.93e-03 3.98e-03 4.87e-03
## 2135 -1.11e-02 -1.10e-05 -4.08e-03 4.85e-03 1.22e-02 -2.55e-05 7.93e-03
## 2136 -3.37e-03 -5.49e-04 -2.51e-03 8.32e-05 -1.50e-02 -1.89e-04 1.37e-04
## 2137 -1.52e-03 8.62e-05 -3.33e-03 -1.23e-03 -1.79e-03 5.67e-04 -3.17e-02
## 2138 -5.23e-03 6.64e-04 -3.12e-03 -3.99e-04 2.75e-03 8.47e-04 1.21e-03
## 2139 2.09e-02 -2.04e-03 1.14e-02 -6.48e-04 -1.10e-02 -2.99e-03 -4.32e-03
## 2140 1.97e-03 3.43e-04 1.19e-03 -7.30e-04 1.53e-02 2.72e-04 -9.67e-04
## 2141 1.60e-02 -1.96e-03 9.43e-03 1.24e-03 -5.13e-03 -3.02e-03 -2.73e-04
## 2142 -3.13e-03 3.39e-04 -1.19e-03 9.68e-04 2.98e-03 3.24e-04 1.78e-03
## 2143 -6.19e-04 -2.48e-04 -4.63e-04 2.15e-04 -4.16e-03 -2.33e-04 5.69e-04
## 2144 -3.08e-04 2.60e-05 -1.60e-04 2.89e-05 2.21e-04 3.28e-05 1.22e-04
## 2145 -3.50e-03 3.05e-04 -1.22e-03 1.35e-03 3.64e-03 2.69e-04 2.25e-03
## 2146 -2.56e-03 1.61e-04 -1.23e-03 4.67e-04 2.14e-03 1.94e-04 1.28e-03
## 2147 -1.62e-03 3.76e-05 -2.26e-03 -1.98e-03 -1.34e-02 4.11e-04 -2.02e-03
## 2148 -3.71e-04 -1.66e-04 -4.39e-04 -9.18e-05 -4.02e-03 -1.48e-04 2.56e-04
## 2149 5.27e-04 5.89e-05 8.61e-05 -4.87e-04 -1.12e-03 1.18e-04 -8.91e-04
## 2150 2.89e-03 2.57e-03 -3.09e-03 -7.78e-03 4.74e-03 2.27e-03 -5.53e-03
## 2151 -7.60e-03 1.81e-04 -3.12e-03 2.58e-03 7.84e-03 1.72e-04 5.08e-03
## 2152 -5.01e-04 -1.38e-07 -1.84e-04 2.21e-04 5.95e-04 -7.65e-06 4.05e-04
## 2153 4.89e-04 -1.27e-04 6.48e-04 6.53e-04 4.57e-03 -2.53e-04 8.85e-04
## 2154 4.82e-05 6.48e-06 2.99e-05 -1.36e-05 3.41e-04 3.72e-06 -1.45e-05
## 2155 1.36e-02 -3.10e-03 8.31e-03 2.94e-03 -1.66e-03 -4.06e-03 2.46e-03
## 2156 -6.97e-04 -1.81e-04 7.26e-05 1.07e-03 2.07e-03 -3.05e-04 1.69e-03
## 2157 1.81e-05 -4.52e-04 -9.74e-04 8.84e-04 1.65e-03 -5.20e-04 -1.89e-02
## 2158 4.17e-03 -5.10e-04 2.46e-03 3.14e-04 -1.37e-03 -7.82e-04 -1.00e-04
## 2159 -1.62e-03 -8.48e-05 -4.38e-04 1.10e-03 2.85e-03 -2.13e-04 2.20e-03
## 2160 -2.73e-03 5.77e-05 -1.11e-03 9.64e-04 2.91e-03 4.43e-05 1.91e-03
## 2161 -1.32e-03 7.05e-04 -3.42e-04 -2.82e-03 -4.33e-03 1.18e-03 2.34e-02
## 2162 -3.43e-03 -1.66e-04 -9.58e-04 2.23e-03 5.47e-03 -3.60e-04 4.08e-03
## 2163 -2.41e-04 -3.15e-04 1.52e-03 1.11e-03 1.70e-03 -4.81e-04 2.16e-02
## 2164 -2.48e-05 -2.45e-05 2.17e-04 6.09e-05 1.09e-04 -4.03e-05 3.63e-03
## 2165 -4.09e-04 -6.26e-05 -4.01e-04 -1.42e-04 -2.60e-03 -8.82e-06 -8.69e-05
## 2166 -4.32e-03 -2.27e-05 -1.55e-03 2.00e-03 5.37e-03 -1.14e-04 3.72e-03
## 2167 -5.19e-03 -4.06e-04 -1.17e-03 4.02e-03 9.31e-03 -7.93e-04 7.11e-03
## 2168 -2.10e-02 -5.91e-03 9.74e-02 6.22e-03 -3.16e-02 -8.82e-03 1.54e-02
## 2169 -8.77e-03 -7.25e-04 -1.92e-03 6.77e-03 1.39e-02 -1.11e-03 1.01e-02
## 2170 -2.81e-03 2.34e-04 -9.39e-04 1.16e-03 3.11e-03 1.83e-04 1.99e-03
## 2171 -1.46e-03 -1.87e-04 -1.68e-03 -9.26e-04 -1.10e-02 3.96e-05 -6.70e-04
## 2172 -3.27e-03 8.40e-05 -3.62e-03 -2.57e-03 -1.89e-02 7.53e-04 -3.24e-03
## 2173 -2.60e-03 3.46e-04 -1.11e-03 5.35e-04 2.07e-03 3.68e-04 1.12e-03
## 2174 -5.64e-02 -2.18e-02 2.70e-02 3.21e-03 -3.03e-03 -1.10e-02 2.87e-03

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## 2175 8.38e-03 2.58e-03 -2.95e-03 -1.88e-03 -8.98e-03 1.50e-03 -3.06e-03
## 2176 -5.70e-02 -1.85e-02 -9.15e-02 8.37e-03 6.77e-02 -4.91e-03 1.20e-02
## 2177 -2.18e-03 -1.24e-03 -4.64e-03 3.60e-04 1.92e-04 -5.11e-04 3.76e-04
## 2178 -1.09e-02 2.50e-04 2.44e-02 5.43e-04 3.33e-03 -9.86e-05 1.89e-03
## 2179 9.57e-02 1.18e-02 -3.40e-01 1.35e-02 1.78e-01 1.52e-02 1.86e-03
## 2180 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 2181 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 2182 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 2183 2.89e-02 1.13e-02 4.48e-02 -1.07e-02 -4.52e-02 5.18e-03 -1.53e-02
## 2184 1.22e-03 -1.05e-01 -1.06e-02 1.61e-03 4.15e-03 -3.94e-04 2.52e-03
## 2185 -1.08e-03 -2.27e-01 1.01e-01 -1.69e-02 -9.02e-02 -2.54e-03 -2.43e-02
## 2186 6.44e-04 -3.07e-02 -2.78e-03 5.58e-04 1.02e-03 4.80e-05 5.30e-04
## 2187 3.79e-04 -2.69e-02 -2.80e-03 1.56e-04 7.13e-04 -2.38e-05 3.57e-04
## 2188 -2.76e-03 -1.24e-01 5.36e-02 -7.33e-03 -4.53e-02 -2.53e-03 -1.03e-02
## 2189 -1.67e-03 4.72e-02 4.00e-03 -6.67e-04 -1.52e-03 3.39e-05 -1.04e-03
## 2190 -3.31e-02 1.54e-03 7.29e-02 -1.58e-03 5.43e-03 8.76e-04 1.56e-03
## 2191 -3.47e-03 -1.40e-03 -5.53e-03 1.49e-03 5.88e-03 -6.54e-04 2.06e-03
## 2192 1.27e-03 -2.32e-04 6.71e-04 3.53e-05 -5.07e-04 -2.92e-04 -8.51e-05
## 2193 1.02e-04 -1.58e-05 4.65e-05 -1.35e-05 -7.44e-05 -1.69e-05 -3.82e-05
## 2194 1.00e-03 1.04e-03 3.03e-04 -5.11e-03 -6.82e-03 1.37e-03 2.92e-02
## 2195 5.41e-04 2.04e-04 6.29e-05 5.11e-02 -1.60e-03 2.65e-04 -1.33e-03
## 2196 -3.61e-04 6.32e-05 -4.77e-04 -4.26e-04 -4.07e-03 1.40e-04 -5.13e-04
## 2197 -6.48e-04 -1.07e-04 -7.73e-04 -4.23e-04 -5.36e-03 -1.15e-05 -2.37e-04
## 2198 -1.63e-02 -4.25e-03 9.09e-02 3.52e-03 7.40e-03 -6.65e-03 -8.29e-02
## 2199 1.64e-03 1.37e-03 -9.29e-04 -5.03e-03 6.92e-03 1.86e-03 -6.62e-03
## 2200 -3.79e-04 4.83e-05 -1.51e-04 9.94e-05 3.60e-04 4.45e-05 2.18e-04
## 2201 2.77e-04 -3.16e-05 1.12e-04 -7.24e-05 -2.30e-04 -3.44e-05 -1.25e-04
## 2202 1.91e-05 -3.49e-05 5.32e-04 1.27e-05 9.83e-05 -7.16e-05 9.07e-03
## 2203 -1.54e-05 2.20e-07 -2.87e-06 1.16e-05 2.62e-05 -9.65e-07 1.93e-05
## 2204 7.80e-04 6.20e-05 -3.97e-05 -9.96e-04 -2.15e-03 2.11e-04 -1.74e-03
## 2205 -3.34e-03 -4.86e-04 -2.81e-03 -4.90e-04 -1.71e-02 -8.03e-05 -3.76e-04
## 2206 1.02e-03 2.43e-04 2.80e-04 -9.32e-04 3.89e-03 2.37e-04 -9.39e-04
## 2207 3.83e-04 1.60e-04 1.36e-04 -3.70e-04 1.35e-03 1.66e-04 -5.14e-04
## 2208 -3.06e-03 4.75e-04 -1.40e-03 4.06e-04 2.24e-03 5.09e-04 1.15e-03
## 2209 -3.39e-04 7.59e-06 -8.03e-05 2.17e-04 4.68e-04 -4.86e-06 3.20e-04
## 2210 6.68e-05 6.66e-06 3.66e-05 -2.08e-05 3.38e-04 1.60e-06 -1.13e-05
## 2211 7.06e-04 3.43e-04 1.25e-04 -1.05e-03 5.75e-03 4.31e-04 -1.49e-03
## 2212 5.93e-03 -8.44e-04 3.71e-03 9.42e-04 -1.19e-03 -1.30e-03 5.43e-04
## 2213 -3.95e-02 -1.63e-02 1.81e-02 4.69e-03 3.01e-03 -9.26e-03 6.62e-03
## 2214 -1.04e-02 -4.05e-03 5.07e-03 3.03e-04 -9.45e-04 -2.03e-03 2.87e-04
## 2215 2.06e-02 6.39e-03 -6.96e-03 4.34e-03 9.25e-03 1.80e-03 6.48e-03
## 2216 1.82e-03 9.17e-04 -2.01e-04 -3.44e-03 6.95e-03 1.16e-03 -4.21e-03
## 2217 -3.31e-03 -3.44e-04 1.64e-02 -1.20e-03 -1.37e-03 -5.37e-04 -1.84e-02
## 2218 -4.79e-03 8.76e-04 -2.53e-03 -1.30e-04 1.93e-03 1.10e-03 3.32e-04
## 2219 1.90e-04 1.91e-04 -1.06e-04 3.73e-02 -1.38e-03 2.83e-04 -1.24e-03
## 2220 -7.55e-03 -4.62e-04 -1.93e-03 5.26e-03 1.22e-02 -8.81e-04 9.09e-03
## 2221 -1.07e-02 -2.00e-04 -3.58e-03 5.42e-03 1.27e-02 -2.95e-04 8.52e-03
## 2222 -8.16e-03 -1.53e-04 -2.72e-03 4.21e-03 1.05e-02 -3.32e-04 7.27e-03
## 2223 2.87e-03 1.20e-03 -1.56e-03 -3.35e-04 -1.19e-04 6.75e-04 -4.47e-04
## 2224 7.09e-03 1.55e-03 -1.51e-03 -1.18e-02 -2.09e-02 2.79e-03 -1.67e-02
## 2225 -4.45e-02 -1.79e-02 1.95e-02 4.83e-03 2.55e-03 -9.93e-03 6.34e-03
## 2226 4.72e-03 -4.85e-04 2.62e-03 -2.13e-05 -2.09e-03 -7.47e-04 -5.96e-04
## 2227 -4.63e-03 6.26e-04 -2.02e-03 8.53e-04 3.42e-03 6.99e-04 1.74e-03
## 2228 5.83e-05 -3.72e-04 -7.51e-04 7.31e-04 1.37e-03 -4.36e-04 -1.51e-02

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## 2229 -2.20e-04 9.08e-07 -4.09e-05 1.66e-04 3.59e-04 -1.33e-05 2.59e-04
## 2230 -3.67e-02 6.19e-05 7.30e-02 5.85e-04 9.86e-03 -4.93e-04 5.02e-03
## 2231 -1.85e-03 1.44e-04 -9.42e-04 2.04e-04 1.17e-03 2.13e-04 5.55e-04
## 2232 1.42e-03 -2.94e-04 7.74e-04 9.42e-05 -6.67e-04 -3.38e-04 -2.05e-04
## 2233 3.79e-04 2.66e-04 -5.82e-07 -7.96e-04 3.94e-03 3.56e-04 -1.21e-03
## 2234 -3.21e-03 6.64e-04 -1.75e-03 -2.17e-04 1.49e-03 7.66e-04 4.47e-04
## 2235 2.55e-03 -2.20e-04 1.34e-03 -1.79e-04 -1.32e-03 -3.48e-04 -4.85e-04
## 2236 2.77e-03 -3.72e-04 1.20e-03 -5.40e-04 -2.13e-03 -4.06e-04 -1.12e-03
## 2237 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 2238 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 2239 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 2240 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 2241 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 2242 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 2243 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 2244 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 2245 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 2246 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 2247 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 2248 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 2249 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 2250 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 2251 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 2252 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 2253 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03
## 2254 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 2255 6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04 4.37e-04 4.02e-04 -5.60e-04
## 2256 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 2257 -7.91e-02 -4.78e-02 -1.83e-01 1.39e-02 3.80e-03 -1.93e-02 1.37e-02
## 2258 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 2259 -1.29e-01 -7.48e-02 -2.85e-01 2.64e-02 1.10e-02 -3.01e-02 2.34e-02
## 2260 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 2261 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 2262 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 2263 -5.16e-05 3.28e-03 3.44e-04 1.95e-05 1.20e-05 -3.88e-05 5.86e-05
## 2264 -3.46e-05 2.16e-03 2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05 6.98e-06
## 2265 3.69e-02 2.07e-02 8.00e-02 -4.23e-03 -6.12e-04 8.11e-03 -4.17e-03
## 2266 1.45e-02 5.58e-03 -5.86e-03 -5.15e-04 7.33e-04 2.83e-03 -6.40e-04
## 2267 1.65e-02 1.78e-01 -7.68e-02 5.66e-04 -2.24e-03 3.51e-03 -1.94e-03
## 2268 1.68e-04 -2.75e-02 -2.90e-03 3.52e-04 9.37e-04 -3.80e-05 4.66e-04
## 2269 5.05e-03 1.78e-03 -1.76e-03 5.22e-04 1.27e-03 7.42e-04 6.64e-04
## 2270 7.76e-03 3.77e-03 1.83e-02 1.23e-03 3.46e-03 7.49e-04 2.31e-03
## 2271 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 2272 1.30e-02 4.62e-03 -5.57e-03 1.56e-03 3.97e-03 1.86e-03 2.09e-03
## 2273 -1.31e-03 4.14e-02 3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 2274 6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04 4.37e-04 4.02e-04 -5.60e-04
## 2275 -9.50e-04 6.36e-05 -4.64e-04 1.54e-04 7.42e-04 8.23e-05 4.23e-04
## 2276 -1.04e-04 -4.10e-06 -7.88e-05 -7.30e-06 -7.39e-04 6.86e-06 -2.04e-05
## 2277 -7.90e-04 3.25e-06 -1.46e-04 5.95e-04 1.29e-03 -4.76e-05 9.29e-04
## 2278 1.76e-05 -7.47e-06 2.66e-05 3.30e-05 1.49e-04 -1.35e-05 4.67e-05
## 2279 -2.79e-04 1.70e-04 -1.89e-04 9.96e-03 -7.09e-04 2.67e-04 -8.05e-04
## 2280 -1.28e-04 1.98e-05 -5.74e-05 1.98e-05 1.02e-04 2.01e-05 5.60e-05
## 2281 -2.43e-03 3.29e-04 -1.06e-03 4.48e-04 1.80e-03 3.67e-04 9.11e-04
## 2282 -8.06e-04 4.66e-05 -2.55e-04 3.73e-04 8.54e-04 4.31e-05 5.24e-04

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## 2283 -6.14e-04 1.26e-04 -3.49e-04 -7.21e-05 1.71e-04 1.61e-04 -2.45e-05
## 2284 -2.21e-05 -1.95e-05 -1.42e-05 6.61e-05 9.69e-05 -2.28e-05 -3.87e-04
## 2285 -4.16e-03 -2.54e-04 -1.07e-03 2.90e-03 6.74e-03 -4.86e-04 5.01e-03
## 2286 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 2287 3.32e-02 1.74e-02 7.71e-02 1.15e-03 8.77e-03 4.87e-03 4.32e-03
## 2288 -1.94e-03 -5.77e-04 4.82e-04 -6.82e-04 -1.18e-03 -1.17e-04 -8.69e-04
## 2289 4.18e-02 2.45e-02 8.83e-02 -9.37e-03 -7.34e-03 1.08e-02 -1.06e-02
## 2290 -3.28e-03 2.27e-04 -1.06e-03 1.45e-03 3.57e-03 1.90e-04 2.24e-03
## 2291 -3.77e-02 -3.64e-03 9.71e-02 2.01e-02 3.90e-02 -7.43e-03 3.16e-02
## 2292 1.68e-02 8.06e-03 4.14e-02 4.55e-03 1.02e-02 1.16e-03 7.14e-03
## 2293 9.86e-04 2.24e-04 2.48e-04 -9.11e-04 3.13e-03 2.12e-04 -8.66e-04
## 2294 8.04e-03 3.66e-03 2.21e-02 4.71e-03 8.47e-03 -8.21e-05 6.30e-03
## 2295 3.68e-03 1.28e-03 -1.26e-03 6.18e-04 1.25e-03 4.92e-04 7.34e-04
## 2296 -8.54e-02 -4.99e-02 -1.94e-01 1.37e-02 1.90e-03 -1.94e-02 1.17e-02
## 2297 2.76e-03 9.68e-04 -9.55e-04 3.72e-04 8.09e-04 3.88e-04 4.52e-04
## 2298 1.11e-02 4.56e-03 -5.05e-03 -9.78e-04 -3.79e-04 2.53e-03 -1.50e-03
## 2299 1.52e-02 5.84e-03 -7.29e-03 8.30e-05 2.12e-03 2.82e-03 1.88e-04
## 2300 -2.24e-02 -1.23e-02 -4.80e-02 2.34e-03 -3.28e-05 -4.67e-03 1.98e-03
## 2301 1.40e-02 5.27e-03 -6.55e-03 5.74e-04 2.65e-03 2.44e-03 7.60e-04
## 2302 -5.72e-03 -2.15e-03 2.64e-03 -6.85e-05 -8.68e-04 -1.01e-03 -1.75e-04
## 2303 2.76e-03 -3.36e-04 1.63e-03 2.00e-04 -9.37e-04 -5.13e-04 -9.60e-05
## 2304 1.12e-02 3.79e-03 -4.32e-03 7.96e-04 2.78e-03 1.49e-03 1.59e-03
## 2305 8.74e-04 5.02e-05 5.69e-05 -8.97e-04 -1.80e-03 1.42e-04 -1.37e-03
## 2306 -2.70e-03 5.56e-04 -1.55e-03 -3.36e-04 6.86e-04 7.18e-04 -1.74e-04
## 2307 -8.96e-03 -6.75e-04 -2.08e-03 6.69e-03 1.42e-02 -1.09e-03 1.04e-02
## 2308 8.63e-04 3.43e-05 1.08e-03 7.85e-04 6.53e-03 -1.34e-04 7.58e-04
## 2309 -1.16e-02 -4.49e-04 -3.45e-03 6.83e-03 1.52e-02 -6.71e-04 1.05e-02
## 2310 -4.88e-03 7.80e-04 -2.37e-03 3.63e-04 2.74e-03 9.38e-04 1.04e-03
## 2311 -5.31e-03 -1.40e-04 -1.69e-03 2.97e-03 7.84e-03 -3.91e-04 5.76e-03
## 2312 -1.35e-03 1.22e-04 -4.85e-04 4.84e-04 1.32e-03 1.19e-04 7.86e-04
## 2313 4.11e-03 -6.44e-04 1.91e-03 -4.91e-04 -2.85e-03 -7.09e-04 -1.39e-03
## 2314 -3.77e-04 1.36e-04 -6.00e-04 -7.01e-04 -4.27e-03 2.52e-04 -9.01e-04
## 2315 -4.44e-04 1.70e-04 -7.59e-04 -9.12e-04 -5.66e-03 3.12e-04 -1.13e-03
## 2316 -3.31e-03 -3.44e-04 1.64e-02 -1.20e-03 -1.37e-03 -5.37e-04 -1.84e-02
## 2317 -1.07e-02 -2.00e-04 -3.58e-03 5.42e-03 1.27e-02 -2.95e-04 8.52e-03
## 2318 2.87e-03 1.20e-03 -1.56e-03 -3.35e-04 -1.19e-04 6.75e-04 -4.47e-04
## 2319 -4.45e-02 -1.79e-02 1.95e-02 4.83e-03 2.55e-03 -9.93e-03 6.34e-03
## 2320 -2.20e-04 9.08e-07 -4.09e-05 1.66e-04 3.59e-04 -1.33e-05 2.59e-04
## 2321 -3.67e-02 6.19e-05 7.30e-02 5.85e-04 9.86e-03 -4.93e-04 5.02e-03
## 2322 -3.21e-03 6.64e-04 -1.75e-03 -2.17e-04 1.49e-03 7.66e-04 4.47e-04
## 2323 2.55e-03 -2.20e-04 1.34e-03 -1.79e-04 -1.32e-03 -3.48e-04 -4.85e-04
## 2324 8.32e-02 -2.54e-03 -1.91e-01 -1.09e-03 -2.22e-02 1.79e-04 -1.22e-02
## 2325 3.18e-03 1.32e-03 -1.71e-03 -3.59e-04 -1.09e-04 7.35e-04 -4.64e-04
## 2326 -1.42e-02 -1.27e-03 7.08e-02 -9.47e-04 -1.85e-03 -2.40e-03 -7.40e-02
## 2327 -1.10e-02 -4.37e-03 4.69e-03 1.13e-03 5.03e-04 -2.38e-03 1.40e-03
## 2328 -2.77e-03 3.56e-04 -1.12e-03 7.03e-04 2.57e-03 3.36e-04 1.53e-03
## 2329 1.17e-03 4.66e-04 -5.86e-04 -1.12e-04 -3.87e-06 2.48e-04 -1.21e-04
## 2330 -1.11e-02 -4.32e-03 4.58e-03 1.07e-03 3.77e-04 -2.31e-03 1.23e-03
## 2331 1.26e-03 -4.68e-04 1.81e-03 2.11e-03 1.07e-02 -8.65e-04 2.99e-03
## 2332 5.16e-04 -7.02e-05 2.27e-04 -8.97e-05 -3.67e-04 -8.01e-05 -1.80e-04
## 2333 2.16e-03 2.45e-04 -1.25e-04 -2.81e-03 -5.52e-03 5.78e-04 -4.37e-03
## 2334 8.65e-03 -1.03e-03 5.05e-03 5.30e-04 -3.25e-03 -1.54e-03 -6.18e-04
## 2335 1.90e-03 -8.12e-05 8.48e-04 -4.82e-04 -1.55e-03 -1.26e-04 -8.72e-04
## 2336 2.76e-03 -1.09e-04 6.31e-04 -1.80e-03 -4.33e-03 7.56e-05 -3.14e-03

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## 2337 -1.33e-03 -4.51e-04 -5.38e-04 1.04e-03 -4.27e-03 -4.31e-04 1.34e-03
## 2338 1.51e-02 4.00e-03 -5.16e-02 -1.18e-02 6.23e-03 5.73e-03 -1.46e-02
## 2339 -1.64e-03 2.10e-04 -1.58e-03 -1.04e-03 -1.07e-02 5.24e-04 -1.73e-03
## 2340 -6.81e-03 -3.58e-05 -2.44e-03 3.15e-03 8.46e-03 -1.80e-04 5.87e-03
## 2341 -1.64e-03 2.10e-04 -1.58e-03 -1.04e-03 -1.07e-02 5.24e-04 -1.73e-03
## 2342 -1.49e-03 2.04e-04 -6.63e-04 2.44e-04 1.02e-03 2.38e-04 4.81e-04
## 2343 -2.62e-02 -5.41e-03 4.94e-03 -5.02e-03 -4.98e-03 -9.80e-04 3.21e-02
## 2344 6.10e-04 -1.97e-05 2.60e-04 -1.84e-04 -5.69e-04 -2.58e-05 -3.50e-04
## 2345 2.37e-03 8.81e-04 -9.07e-04 7.33e-05 3.43e-04 4.13e-04 8.40e-05
## 2346 1.26e-03 5.10e-04 5.98e-05 -1.90e-03 5.14e-03 6.12e-04 -2.25e-03
## 2347 8.68e-03 2.98e-03 -3.50e-03 1.11e-03 2.79e-03 1.13e-03 1.62e-03
## 2348 1.19e-04 -6.66e-06 3.34e-05 -6.39e-05 -1.55e-04 -2.33e-06 -1.05e-04
## 2349 -3.92e-02 -1.24e-02 1.33e-02 -3.40e-03 -1.09e-02 -4.29e-03 -7.37e-03
## 2350 1.07e-02 3.83e-03 -3.79e-03 1.41e-04 1.37e-03 1.75e-03 4.16e-04
## 2351 -4.20e-04 -2.64e-05 1.50e-03 -6.49e-05 -8.26e-04 -3.82e-05 -6.65e-05
## 2352 -4.55e-02 -1.28e-02 1.63e-02 8.90e-03 4.55e-02 -6.71e-03 1.30e-02
## 2353 -2.23e-03 -3.24e-04 -2.31e-04 2.35e-03 5.02e-03 -5.84e-04 3.98e-03
## 2354 2.69e-05 -2.08e-05 -5.07e-04 -2.25e-04 -2.09e-04 1.63e-05 -6.46e-03
## 2355 -3.60e-03 9.50e-05 -1.50e-03 1.18e-03 3.61e-03 1.03e-04 2.31e-03
## 2356 -3.76e-04 -1.48e-04 -3.45e-04 3.07e-05 -3.03e-03 -1.31e-04 2.76e-04
## 2357 2.74e-04 5.13e-05 2.75e-04 9.19e-05 1.89e-03 1.79e-05 2.96e-05
## 2358 -6.06e-03 -2.42e-03 2.62e-03 4.68e-04 8.09e-05 -1.30e-03 6.47e-04
## 2359 -2.51e-02 -1.09e-02 1.44e-02 4.05e-03 2.71e-03 -6.42e-03 5.52e-03
## 2360 4.94e-04 3.07e-04 2.73e-03 -4.59e-04 -9.15e-04 1.77e-01 -6.02e-04
## 2361 8.99e-04 2.99e-04 -1.75e-03 -3.95e-04 -7.48e-04 -1.56e-01 -6.24e-04
## 2362 2.29e-03 9.44e-04 -1.05e-03 -2.70e-04 -1.71e-04 5.34e-04 -3.79e-04
## 2363 -1.57e-04 -1.77e-04 -1.33e-03 2.80e-04 5.67e-04 -9.07e-02 4.33e-04
## 2364 1.69e-02 6.07e-03 -7.37e-03 1.99e-03 5.10e-03 2.48e-03 2.60e-03
## 2365 1.10e-02 -2.00e-03 5.71e-03 1.21e-04 -4.98e-03 -2.44e-03 -1.31e-03
## 2366 9.91e-03 -1.57e-03 4.71e-03 -9.28e-04 -6.12e-03 -1.82e-03 -2.65e-03
## 2367 1.10e-02 -2.00e-03 5.74e-03 1.53e-04 -4.88e-03 -2.46e-03 -1.21e-03
## 2368 -7.10e-03 -4.60e-05 -2.53e-03 3.27e-03 8.18e-03 -1.00e-04 5.45e-03
## 2369 4.64e-03 1.29e-03 1.60e-03 -4.15e-03 2.78e-02 1.37e-03 -5.02e-03
## 2370 3.13e-03 1.04e-03 -9.67e-04 5.53e-04 1.12e-03 3.64e-04 7.27e-04
## 2371 -7.22e-03 1.52e-04 -2.93e-03 2.55e-03 7.69e-03 1.17e-04 5.06e-03
## 2372 -1.64e-03 9.58e-05 -7.75e-04 3.33e-04 1.47e-03 1.06e-04 9.15e-04
## 2373 5.49e-03 -9.98e-04 2.83e-03 -5.12e-06 -2.71e-03 -1.19e-03 -8.61e-04
## 2374 -1.67e-02 -4.97e-03 7.42e-02 1.21e-02 -1.43e-02 -7.68e-03 1.79e-02
## 2375 6.06e-03 2.52e-03 -2.81e-03 -9.00e-04 -7.08e-04 1.46e-03 -1.21e-03
## 2376 -3.38e-03 -1.10e-04 -1.04e-03 1.95e-03 4.82e-03 -2.39e-04 3.48e-03
## 2377 -9.89e-04 -3.98e-04 4.32e-04 1.07e-04 5.50e-05 -2.20e-04 1.39e-04
## 2378 7.93e-03 2.86e-03 -2.88e-03 5.40e-04 1.58e-03 1.26e-03 6.86e-04
## 2379 2.08e-03 -3.80e-04 1.10e-03 5.45e-05 -8.41e-04 -4.76e-04 -1.50e-04
## 2380 1.53e-02 6.10e-03 -6.59e-03 -1.61e-03 -7.73e-04 3.35e-03 -2.04e-03
## 2381 3.56e-03 1.07e-03 -8.42e-04 6.40e-04 1.38e-03 4.48e-04 5.10e-04
## 2382 -1.98e-04 -7.39e-05 9.05e-05 -2.65e-06 -3.05e-05 -3.45e-05 -6.81e-06
## 2383 1.71e-02 7.01e-03 -7.73e-03 -1.97e-03 -1.19e-03 3.94e-03 -2.71e-03
## 2384 -3.39e-03 -1.26e-03 1.52e-03 1.50e-04 -2.60e-04 -6.13e-04 6.30e-05
## 2385 7.51e-04 2.67e-04 -2.61e-04 -2.85e-05 4.57e-05 1.26e-04 -4.05e-06
## 2386 1.92e-02 4.93e-03 -6.19e-03 -7.41e-04 -1.56e-02 1.99e-03 -2.15e-03
## 2387 4.62e-03 1.75e-03 -1.83e-03 1.19e-04 6.20e-04 8.40e-04 9.45e-05
## 2388 1.02e-02 3.55e-03 -4.17e-03 9.52e-04 2.79e-03 1.42e-03 1.50e-03
## 2389 5.95e-03 2.22e-03 -2.70e-03 -9.52e-05 6.84e-04 1.06e-03 4.44e-05
## 2390 -8.51e-03 -2.19e-03 2.19e-03 3.39e-04 6.68e-03 -8.99e-04 9.43e-04

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## 2391 -2.70e-03 -8.10e-04  6.78e-04 -7.68e-04 -1.40e-03 -1.94e-04 -1.03e-03
## 2392 -8.34e-04 -1.72e-05 -1.18e-04  7.13e-04  1.48e-03 -8.10e-05  1.09e-03
## 2393  1.50e-02  5.32e-03 -6.38e-03  1.83e-03  4.64e-03  2.12e-03  2.49e-03
## 2394 -1.50e-03  4.43e-04 -1.87e-03 -1.95e-03 -1.07e-02  8.59e-04 -2.92e-03
## 2395  1.34e-03  1.47e-03 -2.20e-03 -7.01e-03 -1.47e-02  2.85e-03 -1.34e-02
## 2396  3.10e-03 -5.64e-04  1.60e-03 -2.90e-06 -1.53e-03 -6.73e-04 -4.86e-04
## 2397 -5.91e-04  6.07e-05 -3.28e-04  2.67e-06  2.61e-04  9.36e-05  7.46e-05
## 2398 -5.16e-03  9.42e-04 -2.70e-03 -7.20e-05  2.30e-03  1.16e-03  5.71e-04
## 2399  6.79e-04  3.49e-04  3.81e-05 -1.15e-03  4.63e-03  4.42e-04 -1.56e-03
## 2400  2.03e-03 -1.09e-04  5.54e-04 -1.12e-03 -2.73e-03 -2.52e-05 -1.88e-03
## 2401 -1.95e-03 -2.42e-04 -1.87e-03 -6.93e-04 -1.15e-02  2.92e-05 -5.84e-04
## 2402 -1.53e-03  2.11e-03 -1.09e-03 -3.16e-03  1.57e-02  3.09e-03 -8.65e-03
## 2403 -6.36e-05  9.87e-04 -8.21e-04 -2.55e-03  2.45e-03  1.41e-03 -4.41e-03
## 2404 -1.08e-04 -5.12e-05 -8.08e-05  4.83e-05 -7.99e-04 -5.13e-05  1.29e-04
## 2405  8.26e-03  4.57e-03  1.74e-02 -1.26e-03 -5.59e-04  1.83e-03 -1.20e-03
## 2406 -8.35e-03 -2.20e-03  2.24e-03  5.65e-04  6.87e-03 -9.62e-04  1.22e-03
## 2407 -3.10e-02 -1.25e-02  1.36e-02  3.39e-03  1.81e-03 -6.93e-03  4.46e-03
## 2408  2.78e-03  1.14e-03 -1.46e-03 -3.00e-04 -6.94e-05  6.26e-04 -3.70e-04
## 2409  3.62e-04  9.95e-05 -1.02e-04 -5.81e-05 -3.34e-04  4.97e-05 -8.73e-05
## 2410 -1.27e-02 -2.90e-03  2.54e-03 -7.01e-04  7.94e-03 -8.11e-04 -3.55e-04
## 2411 -8.81e-03 -3.32e-03  3.42e-03  7.37e-04  9.42e-05 -1.72e-03  7.04e-04
## 2412  2.24e-03 -1.31e-06  4.45e-04 -1.63e-03 -3.37e-03  1.04e-04 -2.36e-03
## 2413 -5.40e-05 -3.97e-06 -5.82e-05 -3.27e-05 -3.48e-04  5.10e-06 -3.23e-05
## 2414 -4.63e-03  6.26e-04 -2.02e-03  8.53e-04  3.42e-03  6.99e-04  1.74e-03
## 2415  5.22e-04  1.27e-04  2.40e-04 -3.57e-04  3.65e-03  1.26e-04 -4.53e-04
## 2416  8.31e-03  7.96e-05  2.90e-03 -4.10e-03 -1.18e-02  4.58e-04 -8.67e-03
## 2417  5.61e-03  1.05e-04  1.87e-03 -2.89e-03 -7.19e-03  2.29e-04 -5.00e-03
## 2418 -3.01e-04  9.45e-06 -1.28e-04  9.55e-05  3.26e-04  6.12e-06  2.19e-04
## 2419 -5.19e-03  1.87e-04 -2.25e-03  1.47e-03  4.62e-03  2.65e-04  2.76e-03
## 2420 -3.24e-03 -7.22e-05 -1.06e-03  1.70e-03  3.97e-03 -1.14e-04  2.69e-03
## 2421 -9.28e-03  1.69e-03 -4.85e-03 -1.12e-04  4.19e-03  2.07e-03  1.08e-03
## 2422  6.50e-04 -2.04e-05  2.75e-04 -2.06e-04 -7.03e-04 -1.32e-05 -4.72e-04
## 2423 -6.80e-04  4.28e-05 -3.27e-04  1.24e-04  5.70e-04  5.16e-05  3.40e-04
## 2424  7.04e-04  3.40e-05  4.66e-05 -7.19e-04 -1.50e-03  1.15e-04 -1.15e-03
## 2425  2.75e-04 -5.04e-05  1.46e-04  7.68e-06 -1.10e-04 -6.33e-05 -1.85e-05
## 2426  5.83e-03  8.48e-04  4.90e-03  8.55e-04  2.98e-02  1.40e-04  6.56e-04
## 2427  1.28e-03 -8.57e-05  4.04e-04 -5.84e-04 -1.43e-03 -6.62e-05 -9.11e-04
## 2428  6.93e-03 -1.43e-03  3.93e-03  8.04e-04 -1.97e-03 -1.81e-03  2.43e-04
## 2429  1.18e-02  5.73e-04  3.30e-03 -7.68e-03 -1.89e-02  1.24e-03 -1.41e-02
## 2430 -5.09e-05 -2.21e-05 -3.67e-04 -1.01e-04 -8.76e-05  8.85e-06 -4.48e-03
## 2431 -1.48e-03  6.86e-05 -6.67e-04  3.64e-04  1.32e-03  8.45e-05  8.04e-04
## 2432 -6.72e-05 -1.74e-04  2.55e-03  1.97e-03  2.40e-03 -4.62e-04  2.77e-02
## 2433 -5.25e-03  1.08e-03 -2.89e-03 -4.27e-04  2.17e-03  1.29e-03  4.72e-04
## 2434  1.70e-04 -4.51e-05  2.37e-04  2.44e-04  1.75e-03 -8.94e-05  3.18e-04
## 2435  3.22e-03  8.71e-05  3.13e-04 -3.05e-03 -6.59e-03  4.46e-04 -5.05e-03
## 2436  3.89e-03  1.34e-04  1.18e-03 -2.32e-03 -6.09e-03  3.56e-04 -4.55e-03
## 2437  4.54e-04  1.10e-04  2.08e-04 -3.10e-04  3.18e-03  1.09e-04 -3.94e-04
## 2438 -1.41e-03 -6.20e-04 -7.10e-04  1.09e-03 -7.04e-03 -6.36e-04  1.82e-03
## 2439 -1.94e-03 -9.55e-05 -2.46e-03 -1.80e-03 -1.52e-02  2.81e-04 -1.68e-03
## 2440  1.64e-04  3.28e-05  1.27e-04 -3.21e-05  1.84e-03  2.93e-05 -8.89e-05
## 2441  1.43e-03  1.78e-03 -1.54e-03 -6.38e-03  7.85e-03  2.51e-03 -8.77e-03
## 2442  3.16e-03 -1.23e-04  4.23e-03  3.65e-03  2.41e-02 -8.52e-04  3.97e-03
## 2443  7.90e-04  2.09e-04  2.32e-04 -7.39e-04  3.78e-03  2.16e-04 -8.18e-04
## 2444 -4.17e-03  9.69e-05 -1.71e-03  1.43e-03  4.33e-03  8.84e-05  2.82e-03

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## 2445 4.07e-04 2.23e-04 5.02e-04 -1.27e-03 -1.59e-03 2.57e-04 1.33e-02
## 2446 9.52e-04 7.73e-05 5.33e-04 -2.51e-04 4.58e-03 -3.97e-06 -7.42e-05
## 2447 -1.25e-03 -3.54e-04 -8.05e-04 4.32e-04 -5.89e-03 -2.83e-04 7.23e-04
## 2448 1.58e-02 -1.66e-03 8.81e-03 1.21e-04 -6.38e-03 -2.61e-03 -1.41e-03
## 2449 2.25e-02 9.00e-03 -1.14e-02 -1.56e-03 6.92e-04 4.74e-03 -1.87e-03
## 2450 1.56e-02 6.52e-03 -8.51e-03 -1.33e-03 2.23e-05 3.59e-03 -1.94e-03
## 2451 -3.68e-02 5.14e-04 8.81e-02 2.80e-03 1.37e-02 -1.16e-03 9.14e-03
## 2452 -1.98e-02 -8.19e-03 1.06e-02 2.22e-03 6.42e-04 -4.55e-03 2.84e-03
## 2453 -2.59e-03 -1.01e-03 1.07e-03 2.93e-05 -2.07e-04 -5.08e-04 7.55e-05
## 2454 2.00e-03 7.21e-04 -7.30e-04 2.58e-04 5.61e-04 3.02e-04 2.87e-04
## 2455 2.45e-03 -8.14e-05 5.11e-04 -1.70e-03 -4.10e-03 1.12e-04 -3.02e-03
## 2456 -6.85e-03 -2.53e-03 3.12e-03 -5.40e-04 -1.67e-03 -1.11e-03 -6.98e-04
## 2457 2.48e-03 8.60e-04 -8.44e-04 4.97e-04 9.49e-04 3.17e-04 5.75e-04
## 2458 4.41e-02 2.49e-02 9.57e-02 -5.18e-03 -9.71e-04 9.83e-03 -5.30e-03
## 2459 1.10e-02 4.40e-03 -5.60e-03 -7.74e-04 3.16e-04 2.33e-03 -9.42e-04
## 2460 1.23e-02 4.99e-03 -5.47e-03 -1.02e-03 -2.93e-04 2.73e-03 -1.49e-03
## 2461 1.01e-02 3.93e-03 -4.18e-03 -1.06e-04 8.28e-04 1.98e-03 -2.71e-04
## 2462 4.16e-02 2.12e-02 9.23e-02 2.47e-03 9.93e-03 6.25e-03 5.07e-03
## 2463 -7.38e-03 -2.62e-03 3.15e-03 -8.92e-04 -2.27e-03 -1.05e-03 -1.21e-03
## 2464 -9.65e-03 -3.61e-03 4.43e-03 -1.22e-04 -1.47e-03 -1.69e-03 -3.12e-04
## 2465 1.84e-02 6.43e-03 -7.67e-03 2.90e-03 6.63e-03 2.42e-03 3.82e-03
## 2466 3.68e-03 1.06e-03 -1.39e-03 -5.94e-04 -3.66e-03 5.48e-04 -9.99e-04
## 2467 -2.07e-02 -7.73e-03 9.41e-03 3.32e-04 -2.38e-03 -3.69e-03 -1.55e-04
## 2468 2.26e-03 7.92e-04 -9.43e-04 2.80e-04 7.09e-04 3.11e-04 3.91e-04
## 2469 -2.42e-04 4.29e-05 -3.09e-04 -2.73e-04 -2.54e-03 9.50e-05 -3.42e-04
## 2470 1.80e-05 1.30e-04 -4.77e-04 -4.77e-04 -7.28e-04 2.03e-04 -5.47e-03
## 2471 -4.53e-04 -1.54e-04 -2.44e-04 2.63e-04 -1.97e-03 -1.42e-04 4.01e-04
## 2472 -2.03e-03 -2.84e-04 -2.32e-04 2.07e-03 4.14e-03 -4.63e-04 3.20e-03
## 2473 1.90e-03 -3.92e-04 1.08e-03 2.23e-04 -5.33e-04 -4.99e-04 7.38e-05
## 2474 -1.57e-03 -2.58e-04 -1.87e-03 -1.02e-03 -1.29e-02 -2.79e-05 -5.71e-04
## 2475 2.36e-03 2.15e-04 4.73e-04 -1.96e-03 -4.54e-03 4.25e-04 -3.52e-03
## 2476 2.06e-03 -1.71e-04 1.07e-03 -1.79e-04 -1.16e-03 -2.63e-04 -4.86e-04
## 2477 -1.63e-03 3.72e-04 -9.94e-04 -3.47e-04 2.22e-04 4.84e-04 -2.73e-04
## 2478 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 2479 4.71e-03 1.85e-03 -1.97e-03 -2.01e-04 1.71e-04 9.58e-04 -2.99e-04
## 2480 -4.16e-06 7.25e-08 -1.66e-06 1.50e-06 4.13e-06 1.01e-07 2.59e-06
## 2481 -2.36e-04 -9.65e-05 1.06e-04 3.33e-05 2.45e-05 -5.50e-05 4.28e-05
## 2482 -1.12e-03 2.57e-04 -6.86e-04 -2.39e-04 1.53e-04 3.34e-04 -1.88e-04
## 2483 -1.19e-02 -3.37e-05 2.44e-02 3.21e-04 3.55e-03 -2.81e-04 2.02e-03
## 2484 -3.70e-02 1.27e-03 8.23e-02 6.97e-05 8.76e-03 2.94e-04 4.17e-03
## 2485 2.72e-02 9.96e-03 -1.22e-02 2.21e-03 6.79e-03 4.30e-03 2.99e-03
## 2486 5.75e-02 2.24e-02 9.25e-02 -1.81e-02 -8.74e-02 9.64e-03 -2.75e-02
## 2487 2.09e-05 8.05e-06 1.11e-05 -1.76e-05 2.43e-04 9.59e-06 -3.13e-05
## 2488 1.69e-03 -1.56e-04 6.16e-04 -5.83e-04 -1.59e-03 -1.57e-04 -9.33e-04
## 2489 -3.37e-03 -8.02e-04 -1.94e-03 1.29e-03 -1.26e-02 -5.82e-04 1.60e-03
## 2490 -9.12e-03 -3.33e-03 3.35e-03 1.81e-04 -7.33e-04 -1.60e-03 2.13e-05
## 2491 -3.30e-03 6.78e-04 -1.88e-03 -4.05e-04 8.54e-04 8.74e-04 -1.95e-04
## 2492 -8.52e-06 1.54e-06 -4.33e-06 1.43e-07 4.64e-06 1.79e-06 1.76e-06
## 2493 -7.35e-03 5.66e-04 -3.73e-03 8.44e-04 4.74e-03 8.28e-04 2.30e-03
## 2494 6.47e-03 1.24e-03 -8.26e-04 1.08e-03 -4.46e-03 4.10e-04 -5.50e-04
## 2495 1.09e-03 4.59e-05 7.09e-04 -8.15e-05 5.87e-03 -6.83e-05 1.52e-04
## 2496 -1.48e-02 -3.31e-03 3.28e-03 -1.97e-03 -1.50e-03 -9.18e-04 1.96e-02
## 2497 -3.31e-03 -4.47e-04 -3.20e-03 -1.17e-03 -2.01e-02 4.84e-06 -8.84e-04
## 2498 3.63e-03 5.56e-04 -3.20e-04 -5.02e-03 -9.06e-03 1.04e-03 -7.07e-03

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## 2499 -8.51e-03 -5.21e-04 -2.18e-03 5.94e-03 1.38e-02 -9.94e-04 1.03e-02
## 2500 1.37e-02 2.31e-03 -4.86e-02 -9.70e-04 2.08e-02 3.07e-03 -3.20e-03
## 2501 -7.83e-03 -3.80e-05 -2.82e-03 3.49e-03 8.23e-03 1.19e-05 5.20e-03
## 2502 -7.83e-03 -3.80e-05 -2.82e-03 3.49e-03 8.23e-03 1.19e-05 5.20e-03
## 2503 -3.32e-04 -2.92e-06 -6.40e-05 2.47e-04 4.92e-04 -1.65e-05 3.41e-04
## 2504 7.95e-02 -8.07e-04 -1.59e-01 1.86e-03 -1.74e-02 2.05e-04 -7.66e-03
## 2505 -1.96e-03 1.51e-04 -6.80e-04 7.64e-04 1.89e-03 1.56e-04 1.11e-03
## 2506 -1.73e-03 1.74e-04 -9.53e-04 3.02e-05 8.37e-04 2.62e-04 2.87e-04
## 2507 3.13e-04 1.21e-04 1.67e-04 -2.64e-04 3.64e-03 1.44e-04 -4.70e-04
## 2508 4.75e-05 2.49e-06 5.00e-05 2.83e-05 2.87e-04 -5.71e-06 3.09e-05
## 2509 3.00e-04 -4.11e-05 1.33e-04 -4.98e-05 -2.07e-04 -4.76e-05 -9.84e-05
## 2510 -1.49e-03 2.04e-04 -6.63e-04 2.44e-04 1.02e-03 2.38e-04 4.81e-04
## 2511 -3.02e-03 1.33e-04 -1.35e-03 7.49e-04 2.41e-03 2.09e-04 1.34e-03
## 2512 1.05e-02 2.70e-03 -1.03e-03 -1.60e-02 -3.16e-02 4.65e-03 -2.60e-02
## 2513 -3.14e-03 -3.84e-04 -2.62e-03 -5.29e-04 -1.52e-02 2.14e-05 -6.06e-04
## 2514 -4.14e-03 -3.42e-06 -1.52e-03 1.80e-03 4.53e-03 -8.02e-06 2.95e-03
## 2515 -4.14e-03 -3.42e-06 -1.52e-03 1.80e-03 4.53e-03 -8.02e-06 2.95e-03
## 2516 3.81e-04 8.54e-05 -1.43e-05 -5.20e-04 -9.66e-04 1.35e-04 -7.67e-04
## 2517 -3.34e-04 1.17e-05 -2.99e-04 -1.26e-04 -2.52e-03 5.97e-05 -1.99e-04
## 2518 9.62e-04 -4.05e-07 7.28e-04 1.31e-04 5.87e-03 -1.22e-04 3.66e-04
## 2519 1.11e-03 8.89e-04 4.25e-04 -4.50e-03 -5.93e-03 1.14e-03 2.65e-02
## 2520 2.57e-03 1.17e-04 2.97e-04 -2.36e-03 -4.59e-03 2.98e-04 -3.35e-03
## 2521 -9.96e-04 -3.39e-04 -6.28e-04 4.41e-04 -5.13e-03 -3.05e-04 8.02e-04
## 2522 1.39e-02 4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02 2.42e-03 -4.73e-03
## 2523 1.49e-02 6.15e-03 -7.94e-03 -1.66e-03 -4.84e-04 3.42e-03 -2.13e-03
## 2524 3.02e-04 4.85e-05 3.27e-04 8.12e-05 4.64e-03 3.64e-05 -7.05e-05
## 2525 2.95e-02 1.07e-02 -1.29e-02 6.19e-04 4.98e-03 4.84e-03 1.64e-03
## 2526 4.20e-03 7.49e-04 -7.54e-04 -6.63e-03 -1.25e-02 1.55e-03 -1.01e-02
## 2527 1.94e-03 -2.29e-04 1.13e-03 1.08e-04 -7.66e-04 -3.39e-04 -1.75e-04
## 2528 6.33e-03 -3.56e-04 2.98e-03 -1.27e-03 -4.87e-03 -5.15e-04 -2.69e-03
## 2529 -8.26e-03 -2.70e-04 -2.55e-03 4.77e-03 1.18e-02 -5.84e-04 8.51e-03
## 2530 -8.96e-03 -6.75e-04 -2.08e-03 6.69e-03 1.42e-02 -1.09e-03 1.04e-02
## 2531 1.13e-03 2.68e-04 3.10e-04 -1.03e-03 4.31e-03 2.62e-04 -1.04e-03
## 2532 4.38e-02 2.35e-02 9.28e-02 -4.24e-03 6.35e-04 8.75e-03 -3.08e-03
## 2533 3.85e-02 2.19e-02 8.20e-02 -6.38e-03 -3.45e-03 9.05e-03 -6.71e-03
## 2534 9.96e-03 3.93e-03 -4.23e-03 -4.50e-04 3.15e-04 2.06e-03 -6.97e-04
## 2535 7.27e-03 2.71e-03 -3.36e-03 5.54e-04 1.74e-03 1.20e-03 6.85e-04
## 2536 2.27e-03 8.77e-04 -1.11e-03 7.86e-05 4.02e-04 4.17e-04 8.09e-05
## 2537 1.35e-02 5.50e-03 -7.06e-03 -1.02e-03 2.64e-04 2.95e-03 -1.34e-03
## 2538 2.08e-03 7.76e-04 -7.99e-04 6.36e-05 3.00e-04 3.65e-04 7.15e-05
## 2539 1.76e-02 6.98e-03 -8.87e-03 -6.44e-04 1.34e-03 3.58e-03 -8.38e-04
## 2540 -2.73e-03 -9.21e-04 8.82e-04 -6.48e-04 -1.19e-03 -3.11e-04 -7.67e-04
## 2541 1.71e-03 5.98e-04 -5.91e-04 3.41e-04 6.52e-04 2.23e-04 3.90e-04
## 2542 2.70e-03 1.82e-03 -1.18e-03 -7.07e-03 6.81e-03 2.41e-03 -8.75e-03
## 2543 -4.72e-03 -3.89e-06 -1.73e-03 2.05e-03 5.15e-03 -9.12e-06 3.35e-03
## 2544 -2.52e-03 2.13e-04 -1.32e-03 2.01e-04 1.37e-03 3.33e-04 5.46e-04
## 2545 5.70e-03 2.55e-05 1.05e-03 -4.32e-03 -8.94e-03 3.33e-04 -6.36e-03
## 2546 -1.78e-03 -2.59e-04 -1.50e-03 -2.61e-04 -9.09e-03 -4.27e-05 -2.00e-04
## 2547 -7.28e-04 8.39e-05 -3.93e-04 1.65e-02 -7.95e-04 5.97e-05 -2.39e-04
## 2548 1.87e-05 2.37e-05 1.63e-05 -7.63e-05 -1.15e-04 2.86e-05 4.95e-04
## 2549 -5.60e-04 3.81e-07 -2.06e-04 2.50e-04 7.30e-04 -1.75e-05 5.20e-04
## 2550 2.02e-04 -1.53e-05 1.03e-03 -2.59e-04 -1.62e-04 -8.21e-05 1.79e-02
## 2551 -1.58e-03 -6.61e-04 8.60e-04 1.84e-04 6.48e-05 -3.71e-04 2.45e-04
## 2552 -1.52e-02 -6.28e-03 6.99e-03 1.81e-03 1.17e-03 -3.57e-03 2.57e-03

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## 2553 -3.39e-04 -1.40e-04 1.81e-04 3.80e-05 1.12e-05 -7.79e-05 4.88e-05
## 2554 -2.52e-02 -8.15e-03 7.19e-03 -4.02e-04 -3.76e-03 -3.28e-03 -2.35e-03
## 2555 4.96e-03 1.66e-03 -1.87e-03 7.55e-05 8.58e-04 6.85e-04 4.51e-04
## 2556 -1.58e-02 -5.43e-03 5.12e-03 5.83e-06 -1.87e-03 -2.39e-03 -7.86e-04
## 2557 -5.95e-03 6.62e-04 -2.33e-03 1.69e-03 5.29e-03 6.79e-04 3.03e-03
## 2558 -9.49e-03 6.73e-04 -4.71e-03 1.37e-03 6.91e-03 9.18e-04 3.74e-03
## 2559 -3.66e-04 8.37e-05 -2.24e-04 -7.80e-05 5.00e-05 1.09e-04 -6.13e-05
## 2560 1.02e-04 -7.69e-06 5.18e-04 -1.30e-04 -8.13e-05 -4.13e-05 9.02e-03
## 2561 8.05e-03 1.83e-03 -1.73e-03 -1.34e-02 -2.32e-02 3.15e-03 -1.84e-02
## 2562 2.47e-03 -3.01e-04 1.45e-03 1.78e-04 -8.38e-04 -4.59e-04 -8.58e-05
## 2563 4.77e-03 -9.81e-04 2.72e-03 5.70e-04 -1.29e-03 -1.26e-03 2.28e-04
## 2564 -1.62e-02 -4.66e-03 5.01e-03 2.87e-03 1.58e-02 -2.47e-03 4.57e-03
## 2565 2.88e-02 1.38e-02 6.91e-02 6.16e-03 1.51e-02 2.35e-03 1.04e-02
## 2566 -7.80e-04 -3.15e-04 3.45e-04 4.13e-05 -1.29e-05 -1.69e-04 7.09e-05
## 2567 -3.28e-02 -1.35e-02 1.50e-02 2.92e-03 1.17e-03 -7.51e-03 4.50e-03
## 2568 3.54e-03 -9.33e-05 1.47e-03 -1.16e-03 -3.55e-03 -1.01e-04 -2.27e-03
## 2569 2.36e-03 1.14e-04 6.60e-04 -1.53e-03 -3.77e-03 2.48e-04 -2.81e-03
## 2570 -9.27e-03 -2.80e-03 3.16e-03 1.82e-03 9.58e-03 -1.57e-03 3.05e-03
## 2571 3.07e-05 7.64e-06 -7.45e-06 3.95e-07 -2.21e-05 2.77e-06 -1.55e-06
## 2572 1.86e-02 6.61e-03 -7.91e-03 1.65e-03 4.90e-03 2.74e-03 2.45e-03
## 2573 2.23e-03 8.16e-04 3.74e-03 -5.82e-04 -3.26e-03 2.88e-04 -8.46e-04
## 2574 -2.90e-03 9.77e-05 -3.17e-03 -2.24e-03 -1.61e-02 6.96e-04 -2.92e-03
## 2575 -5.12e-02 -2.56e-02 -1.22e-01 -7.80e-03 -2.23e-02 -5.45e-03 -1.43e-02
## 2576 2.15e-02 6.93e-03 -8.09e-03 -6.07e-03 -2.49e-02 4.31e-03 -9.44e-03
## 2577 1.63e-02 4.58e-03 -5.96e-03 -2.15e-03 -1.56e-02 2.26e-03 -3.82e-03
## 2578 4.17e-03 -2.53e-04 1.23e-03 -2.10e-03 -5.12e-03 -1.38e-04 -3.39e-03
## 2579 1.39e-02 6.84e-03 3.28e-02 2.14e-03 6.08e-03 1.42e-03 3.98e-03
## 2580 3.75e-02 1.60e-02 8.61e-02 1.27e-02 2.45e-02 1.34e-03 1.89e-02
## 2581 -1.32e-01 -7.53e-02 -2.82e-01 2.21e-02 1.22e-02 -3.12e-02 2.34e-02
## 2582 2.40e-02 1.34e-02 5.18e-02 -2.67e-03 -2.57e-04 5.18e-03 -2.51e-03
## 2583 6.07e-02 4.53e-04 -1.20e-01 -3.43e-03 -1.96e-02 1.58e-03 -1.11e-02
## 2584 -7.55e-03 -4.62e-04 -1.93e-03 5.26e-03 1.22e-02 -8.81e-04 9.09e-03
## 2585 3.35e-04 3.30e-05 3.72e-04 2.07e-04 2.33e-03 -2.14e-05 1.79e-04
## 2586 -2.02e-04 2.58e-04 4.69e-04 -1.27e-03 -1.75e-03 3.80e-04 1.80e-02
## 2587 1.92e-03 1.41e-04 2.07e-03 1.16e-03 1.24e-02 -1.81e-04 1.15e-03
## 2588 3.74e-03 -7.71e-04 2.11e-03 4.10e-04 -1.15e-03 -9.68e-04 4.45e-05
## 2589 9.70e-04 1.36e-04 -1.23e-04 -1.41e-03 -2.78e-03 3.19e-04 -2.25e-03
## 2590 -1.16e-03 4.26e-05 -1.25e-03 -8.88e-04 -6.33e-03 2.82e-04 -1.17e-03
## 2591 4.19e-03 -6.49e-04 1.90e-03 -5.82e-04 -3.14e-03 -6.85e-04 -1.65e-03
## 2592 -2.78e-05 1.40e-05 -5.46e-05 -7.22e-05 -3.91e-04 2.45e-05 -8.90e-05
## 2593 -3.12e-03 -3.81e-04 -2.60e-03 -5.25e-04 -1.51e-02 2.12e-05 -6.01e-04
## 2594 5.83e-05 -3.72e-04 -7.51e-04 7.31e-04 1.37e-03 -4.36e-04 -1.51e-02
## 2595 -1.31e-03 2.74e-05 -2.70e-04 9.23e-04 2.09e-03 -5.85e-05 1.51e-03
## 2596 -4.28e-04 -2.58e-04 2.93e-06 7.60e-04 -9.39e-04 -3.07e-04 1.01e-03
## 2597 -1.31e-03 -1.64e-04 -1.26e-03 -4.68e-04 -7.79e-03 1.97e-05 -3.94e-04
## 2598 2.77e-02 -2.88e-03 1.54e-02 4.59e-05 -1.17e-02 -4.48e-03 -2.98e-03
## 2599 -1.34e-02 -2.08e-03 4.54e-02 7.07e-04 -2.00e-02 -2.70e-03 2.44e-03
## 2600 -7.51e-04 -1.98e-05 -2.39e-04 4.20e-04 1.11e-03 -5.52e-05 8.15e-04
## 2601 1.81e-03 -3.72e-04 1.03e-03 2.22e-04 -4.70e-04 -4.79e-04 1.06e-04
## 2602 -1.54e-04 -1.57e-05 -9.72e-05 3.21e-05 -9.98e-04 -4.30e-06 2.24e-05
## 2603 6.73e-04 -1.28e-05 1.53e-04 -4.44e-04 -9.59e-04 1.54e-05 -6.64e-04
## 2604 8.57e-04 2.04e-04 2.35e-04 -7.83e-04 3.27e-03 1.99e-04 -7.89e-04
## 2605 7.46e-04 5.48e-05 8.04e-04 4.52e-04 4.81e-03 -7.04e-05 4.46e-04
## 2606 3.14e-03 -7.01e-04 4.34e-03 4.64e-03 1.97e-02 -1.64e-03 6.21e-03

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## 2607 -2.61e-03 -1.18e-04 -7.45e-04 1.63e-03 3.80e-03 -2.17e-04 2.74e-03
## 2608 -4.29e-04 1.13e-05 -1.78e-04 1.41e-04 4.30e-04 1.22e-05 2.75e-04
## 2609 1.28e-03 -6.46e-04 2.52e-03 3.34e-03 1.81e-02 -1.13e-03 4.11e-03
## 2610 -2.44e-04 5.49e-05 -3.48e-04 -3.77e-04 -1.61e-03 1.29e-04 -4.94e-04
## 2611 -4.22e-02 9.37e-04 9.52e-02 2.20e-03 1.31e-02 -4.63e-04 7.59e-03
## 2612 -5.79e-03 -3.29e-04 -1.53e-03 3.88e-03 8.61e-03 -5.50e-04 6.21e-03
## 2613 1.86e-02 -1.91e-03 1.03e-02 -8.40e-05 -8.23e-03 -2.94e-03 -2.35e-03
## 2614 -4.42e-03 8.07e-04 -2.31e-03 -6.17e-05 1.97e-03 9.90e-04 4.89e-04
## 2615 8.87e-03 -1.42e-03 4.30e-03 -6.60e-04 -4.98e-03 -1.70e-03 -1.89e-03
## 2616 -2.25e-03 -7.20e-04 -1.23e-03 1.22e-03 -9.55e-03 -6.42e-04 1.81e-03
## 2617 4.84e-02 -6.34e-04 -9.50e-02 1.47e-03 -9.67e-03 -2.02e-04 -3.61e-03
## 2618 1.46e-03 -5.62e-05 3.77e-04 -8.64e-04 -1.97e-03 -2.70e-06 -1.34e-03
## 2619 -5.05e-03 -2.29e-04 -1.44e-03 3.17e-03 7.38e-03 -4.22e-04 5.32e-03
## 2620 -2.04e-02 -7.38e-03 7.43e-03 -1.38e-03 -4.05e-03 -3.26e-03 -1.73e-03
## 2621 7.72e-04 2.51e-04 -2.29e-04 1.39e-04 2.84e-04 8.49e-05 1.90e-04
## 2622 2.33e-03 7.25e-04 -6.30e-04 5.07e-04 9.88e-04 2.14e-04 7.01e-04
## 2623 1.72e-02 5.00e-03 -5.03e-03 2.75e-03 6.67e-03 1.31e-03 5.03e-03
## 2624 -8.08e-03 -2.22e-03 2.26e-03 -3.45e-03 -6.11e-03 -1.99e-04 -4.61e-03
## 2625 1.90e-04 6.67e-05 -6.42e-05 -6.37e-06 1.32e-05 3.10e-05 1.16e-06
## 2626 -5.31e-04 1.52e-04 -8.49e-04 -9.24e-04 -7.02e-03 2.96e-04 -1.09e-03
## 2627 -1.81e-03 3.73e-04 -1.03e-03 -2.09e-04 5.20e-04 4.73e-04 -5.81e-05
## 2628 2.35e-03 -9.29e-05 5.37e-04 -1.53e-03 -3.69e-03 6.43e-05 -2.67e-03
## 2629 8.32e-03 2.79e-03 -2.62e-03 1.20e-03 2.62e-03 1.03e-03 1.64e-03
## 2630 2.56e-02 9.06e-03 -1.09e-02 3.11e-03 7.92e-03 3.61e-03 4.25e-03
## 2631 -7.80e-03 -2.77e-03 2.73e-03 -3.39e-04 -1.32e-03 -1.23e-03 -5.61e-04
## 2632 -4.56e-03 -1.67e-03 1.68e-03 -3.24e-05 -5.28e-04 -7.84e-04 -9.99e-05
## 2633 2.32e-02 7.66e-03 -8.68e-03 3.17e-03 7.89e-03 2.70e-03 4.99e-03
## 2634 -4.63e-03 -1.52e-03 1.71e-03 -4.94e-04 -1.39e-03 -5.52e-04 -8.71e-04
## 2635 5.70e-03 2.55e-05 1.05e-03 -4.32e-03 -8.94e-03 3.33e-04 -6.36e-03
## 2636 7.79e-03 2.25e-03 -2.72e-03 -1.54e-02 -2.67e-02 3.96e-03 -2.17e-02
## 2637 -3.82e-03 -2.01e-05 -1.37e-03 1.77e-03 4.74e-03 -1.01e-04 3.29e-03
## 2638 -3.64e-03 3.70e-04 -2.01e-03 3.96e-05 1.68e-03 5.64e-04 5.30e-04
## 2639 1.24e-03 4.49e-04 2.48e-04 -1.53e-03 6.92e-03 5.23e-04 -1.90e-03
## 2640 -8.26e-03 -2.70e-04 -2.55e-03 4.77e-03 1.18e-02 -5.84e-04 8.51e-03
## 2641 7.15e-04 -6.29e-05 3.76e-04 -5.49e-05 -4.76e-04 -8.34e-05 -2.46e-04
## 2642 1.25e-04 5.45e-05 8.50e-05 -1.95e-04 -2.69e-04 5.35e-05 1.35e-03
## 2643 3.94e-04 1.76e-04 8.17e-05 -5.42e-04 3.05e-03 2.17e-04 -7.57e-04
## 2644 -7.93e-04 8.70e-04 -5.55e-03 -5.30e-03 -7.26e-03 1.75e-03 -4.84e-02
## 2645 3.54e-04 1.52e-04 5.77e-04 -9.48e-04 -1.15e-03 1.59e-04 1.31e-02
## 2646 -2.64e-04 1.37e-04 3.53e-04 -6.62e-04 -9.41e-04 2.17e-04 1.27e-02
## 2647 -3.05e-02 -6.12e-03 1.04e-01 7.75e-03 -3.61e-02 -8.18e-03 1.31e-02
## 2648 -2.69e-03 6.93e-05 -2.98e-03 -2.12e-03 -1.56e-02 6.21e-04 -2.67e-03
## 2649 1.18e-03 -6.53e-05 1.23e-03 8.66e-04 5.86e-03 -3.13e-04 1.23e-03
## 2650 -1.09e-03 -3.10e-04 -8.13e-04 2.06e-04 -6.10e-03 -2.39e-04 5.33e-04
## 2651 -1.48e-04 -9.31e-05 -1.47e-04 4.44e-05 -1.61e-03 -9.78e-05 2.28e-04
## 2652 6.61e-05 2.32e-04 7.43e-04 -1.29e-03 -1.67e-03 3.02e-04 2.06e-02
## 2653 -4.48e-05 -3.00e-05 -2.43e-04 -1.26e-05 2.18e-05 -1.36e-05 -3.17e-03
## 2654 1.91e-03 4.04e-04 1.65e-03 1.64e-04 1.13e-02 2.12e-04 -2.16e-04
## 2655 1.59e-04 1.87e-04 3.73e-05 -3.50e-04 1.52e-03 2.33e-04 -6.78e-04
## 2656 5.98e-04 1.90e-03 2.97e-03 1.32e-03 4.09e-02 2.23e-03 -4.37e-03
## 2657 -1.04e-02 -3.62e-03 3.50e-03 -1.12e-03 -2.71e-03 -1.46e-03 -1.51e-03
## 2658 -2.73e-03 5.61e-04 -1.56e-03 -3.40e-04 6.85e-04 7.25e-04 -1.82e-04
## 2659 1.52e-03 5.88e-04 1.77e-04 -2.10e-03 7.26e-03 6.96e-04 -2.55e-03
## 2660 -8.52e-04 -2.94e-04 -9.48e-04 -2.40e-04 -7.90e-03 -2.28e-04 3.20e-04

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## 2661 5.25e-04 -9.43e-05 6.38e-04 5.52e-04 4.95e-03 -2.08e-04 7.35e-04
## 2662 -5.03e-03 -1.27e-03 1.05e-03 1.43e-02 7.78e-04 -5.51e-04 6.63e-04
## 2663 5.52e-04 1.28e-04 1.35e-04 -5.20e-04 1.77e-03 1.23e-04 -5.01e-04
## 2664 6.81e-03 8.34e-04 -1.99e-04 -8.49e-03 -1.55e-02 1.62e-03 -1.19e-02
## 2665 5.57e-04 8.66e-05 2.49e-04 -3.03e-04 2.62e-03 6.02e-05 -2.61e-04
## 2666 2.32e-03 4.26e-05 3.42e-04 -1.95e-03 -4.05e-03 2.13e-04 -2.97e-03
## 2667 -2.89e-03 -3.52e-04 -2.41e-03 -4.86e-04 -1.40e-02 1.96e-05 -5.57e-04
## 2668 9.24e-04 1.69e-04 2.79e-04 -7.20e-04 2.73e-03 1.37e-04 -6.04e-04
## 2669 -8.23e-04 3.82e-05 -3.72e-04 2.03e-04 7.35e-04 4.71e-05 4.48e-04
## 2670 -7.43e-04 -7.31e-05 -8.24e-04 -4.59e-04 -5.16e-03 4.74e-05 -3.97e-04
## 2671 -1.97e-03 -8.64e-04 -9.89e-04 1.52e-03 -9.80e-03 -8.85e-04 2.53e-03
## 2672 -4.36e-03 2.03e-04 -4.63e-03 -3.26e-03 -2.27e-02 1.11e-03 -4.48e-03
## 2673 -1.33e-03 -3.84e-04 2.13e-04 2.23e-03 4.64e-03 -7.08e-04 3.91e-03
## 2674 -4.42e-03 8.07e-04 -2.31e-03 -6.17e-05 1.97e-03 9.90e-04 4.89e-04
## 2675 8.87e-03 -1.42e-03 4.30e-03 -6.60e-04 -4.98e-03 -1.70e-03 -1.89e-03
## 2676 -2.25e-03 -7.20e-04 -1.23e-03 1.22e-03 -9.55e-03 -6.42e-04 1.81e-03
## 2677 3.69e-04 -5.85e-05 1.76e-04 -3.46e-05 -2.28e-04 -6.78e-05 -9.87e-05
## 2678 -2.56e-03 -3.69e-05 -8.75e-04 1.25e-03 2.93e-03 -4.76e-05 1.93e-03
## 2679 -9.67e-04 4.02e-04 -1.56e-03 -1.92e-03 -9.98e-03 7.28e-04 -2.57e-03
## 2680 5.86e-03 1.83e-04 1.83e-03 -3.31e-03 -7.73e-03 3.16e-04 -5.38e-03
## 2681 2.09e-03 1.63e-05 3.68e-04 -1.63e-03 -3.37e-03 1.39e-04 -2.41e-03
## 2682 -3.30e-03 -7.56e-04 -2.16e-03 8.42e-04 -1.42e-02 -5.06e-04 1.22e-03
## 2683 -1.35e-03 2.08e-04 -6.09e-04 1.93e-04 1.03e-03 2.18e-04 5.46e-04
## 2684 1.65e-03 -2.95e-04 7.94e-04 -1.18e-04 -1.19e-03 -3.04e-04 -6.20e-04
## 2685 -5.33e-03 -2.03e-04 -1.59e-03 3.17e-03 7.39e-03 -3.64e-04 5.24e-03
## 2686 5.09e-03 4.85e-04 -1.43e-02 -2.59e-03 -5.35e-03 1.07e-03 -4.47e-03
## 2687 9.13e-06 -7.71e-06 5.39e-05 1.88e-05 3.62e-05 -1.41e-05 7.45e-04
## 2688 7.16e-04 -1.30e-04 3.69e-04 -6.69e-07 -3.53e-04 -1.55e-04 -1.12e-04
## 2689 -1.15e-03 -1.16e-04 -1.09e-03 -4.21e-04 -6.42e-03 5.32e-05 -4.32e-04
## 2690 3.12e-03 -4.45e-05 5.81e-04 -2.34e-03 -5.30e-03 1.95e-04 -3.90e-03
## 2691 3.70e-03 5.17e-04 -1.67e-04 -4.76e-03 -8.42e-03 9.20e-04 -6.44e-03
## 2692 1.46e-03 -5.62e-05 3.77e-04 -8.64e-04 -1.97e-03 -2.70e-06 -1.34e-03
## 2693 -3.02e-03 -9.42e-05 -9.40e-04 1.70e-03 3.97e-03 -1.63e-04 2.77e-03
## 2694 1.76e-04 3.32e-06 5.86e-05 -9.25e-05 -2.45e-04 1.00e-05 -1.77e-04
## 2695 7.76e-04 1.37e-05 7.32e-04 2.69e-04 7.48e-03 -7.62e-05 2.90e-04
## 2696 -3.66e-03 -3.91e-04 -6.30e-04 3.30e-03 7.62e-03 -7.79e-04 6.02e-03
## 2697 7.39e-03 1.02e-03 8.50e-04 -7.69e-03 -1.77e-02 2.05e-03 -1.44e-02
## 2698 -4.24e-03 7.72e-04 -2.20e-03 -2.81e-05 1.99e-03 9.34e-04 5.65e-04
## 2699 3.99e-03 8.21e-04 -8.45e-04 -6.61e-03 -1.20e-02 1.57e-03 -9.69e-03
## 2700 1.04e-02 -1.48e-03 6.50e-03 1.64e-03 -2.11e-03 -2.27e-03 9.17e-04
## 2701 -4.35e-02 6.08e-04 1.04e-01 3.32e-03 1.62e-02 -1.37e-03 1.08e-02
## 2702 -3.23e-03 1.17e-04 -1.40e-03 9.18e-04 2.88e-03 1.65e-04 1.72e-03
## 2703 -1.62e-03 -8.70e-06 -5.83e-04 7.27e-04 1.71e-03 6.85e-07 1.09e-03
## 2704 -6.11e-05 -1.89e-06 -9.27e-06 5.11e-05 9.88e-05 -5.12e-06 7.03e-05
## 2705 3.40e-02 -5.93e-04 1.36e-02 -1.22e-02 -3.37e-02 -8.25e-04 -2.12e-02
## 2706 8.84e-04 -9.09e-05 4.90e-04 -4.00e-06 -3.91e-04 -1.40e-04 -1.12e-04
## 2707 3.18e-04 4.00e-05 1.50e-04 -1.46e-04 1.40e-03 2.01e-05 -1.02e-04
## 2708 -9.30e-04 -1.31e-06 -1.58e-04 7.33e-04 1.58e-03 -6.90e-05 1.16e-03
## 2709 -2.33e-05 9.80e-09 -1.76e-05 -3.18e-06 -1.42e-04 2.96e-06 -8.86e-06
## 2710 5.63e-03 -3.39e-04 1.43e-03 -3.33e-03 -8.65e-03 4.61e-05 -6.26e-03
## 2711 1.83e-04 -1.09e-04 1.34e-03 9.41e-05 3.69e-04 -2.26e-04 2.13e-02
## 2712 1.01e-03 -1.77e-05 9.76e-04 5.66e-04 4.69e-03 -2.09e-04 8.40e-04
## 2713 -1.64e-02 -2.11e-03 8.00e-02 1.98e-03 2.17e-03 -3.65e-03 -7.90e-02
## 2714 -2.95e-03 -3.63e-04 -4.24e-04 2.85e-03 6.30e-03 -6.81e-04 4.97e-03

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## 2715  2.56e-03 -1.20e-04  1.16e-03 -6.25e-04 -2.27e-03 -1.49e-04 -1.38e-03
## 2716 -5.58e-03 -3.21e-04  1.39e-02  1.14e-03  3.58e-03 -7.12e-04  2.89e-03
## 2717 -1.54e-03 -4.42e-04 -1.36e-03 -2.38e-05 -1.05e-02 -3.24e-04  5.74e-04
## 2718  5.27e-04  2.92e-04  6.33e-05 -8.85e-04  4.67e-03  3.76e-04 -1.29e-03
## 2719 -1.59e-02 -4.22e-04  3.56e-02  1.67e-03  7.11e-03 -1.08e-03  5.08e-03
## 2720 -6.86e-03 -2.76e-04 -2.02e-03  4.20e-03  1.03e-02 -5.98e-04  7.59e-03
## 2721 -8.76e-03 -6.15e-04 -2.12e-03  6.29e-03  1.29e-02 -8.89e-04  9.17e-03
## 2722  2.09e-03 -8.66e-05  5.57e-04 -1.19e-03 -2.71e-03 -2.10e-05 -1.82e-03
## 2723  9.52e-04  2.15e-04  5.60e-04 -4.62e-04  8.31e-03  2.06e-04 -7.01e-04
## 2724  2.55e-03 -4.64e-04  2.98e-03  2.53e-03  2.19e-02 -1.02e-03  3.54e-03
## 2725 -7.01e-04  2.69e-05 -1.81e-04  4.14e-04  9.42e-04  1.29e-06  6.42e-04
## 2726 -4.32e-03 -2.10e-04 -1.20e-03  2.85e-03  7.43e-03 -5.32e-04  5.70e-03
## 2727 -4.45e-02  1.45e-03  1.01e-01  3.37e-04  1.12e-02  1.25e-04  5.78e-03
## 2728 -1.57e-03  1.63e-04 -5.69e-04  5.51e-04  1.66e-03  1.36e-04  1.05e-03
## 2729  7.99e-04 -2.57e-04  1.11e-03  1.22e-03  7.09e-03 -4.89e-04  1.70e-03
## 2730 -5.52e-04 -2.10e-05 -1.65e-04  3.28e-04  7.65e-04 -3.77e-05  5.43e-04
## 2731 -1.94e-03 -6.64e-05 -2.02e-04  1.82e-03  3.77e-03 -2.52e-04  2.84e-03
## 2732  1.76e-03  1.17e-04  1.35e-03  4.62e-05  1.38e-02 -4.48e-05  1.31e-04
## 2733  5.72e-05 -5.62e-06  6.05e-05  4.02e-05  5.01e-04 -1.57e-05  5.48e-05
## 2734 -2.34e-02  7.92e-04  5.24e-02  8.70e-05  5.66e-03  1.47e-04  2.77e-03
## 2735  1.91e-04  1.31e-04 -1.78e-04  6.78e-03 -5.69e-05  2.70e-05  1.68e-04
## 2736  1.56e-03 -3.91e-04  1.94e-03  1.89e-03  1.28e-02 -7.87e-04  2.71e-03
## 2737  1.39e-02  4.29e-03 -5.92e-03 -2.63e-03 -1.50e-02  2.42e-03 -4.73e-03
## 2738 -7.91e-02 -4.78e-02 -1.83e-01  1.39e-02  3.80e-03 -1.93e-02  1.37e-02
## 2739 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 2740 -1.29e-01 -7.48e-02 -2.85e-01  2.64e-02  1.10e-02 -3.01e-02  2.34e-02
## 2741 -3.66e-03  1.98e-04 -1.71e-03  7.73e-04  2.93e-03  2.78e-04  1.66e-03
## 2742  3.02e-04  4.85e-05  3.27e-04  8.12e-05  4.64e-03  3.64e-05 -7.05e-05
## 2743  3.59e-02  1.97e-02  7.68e-02 -3.75e-03  3.73e-05  7.48e-03 -3.19e-03
## 2744 -5.16e-05  3.28e-03  3.44e-04  1.95e-05  1.20e-05 -3.88e-05  5.86e-05
## 2745 -3.46e-05  2.16e-03  2.15e-04 -1.10e-05 -2.70e-05 -1.66e-05  6.98e-06
## 2746  3.69e-02  2.07e-02  8.00e-02 -4.23e-03 -6.12e-04  8.11e-03 -4.17e-03
## 2747  1.45e-02  5.58e-03 -5.86e-03 -5.15e-04  7.33e-04  2.83e-03 -6.40e-04
## 2748  1.65e-02  1.78e-01 -7.68e-02  5.66e-04 -2.24e-03  3.51e-03 -1.94e-03
## 2749  1.68e-04 -2.75e-02 -2.90e-03  3.52e-04  9.37e-04 -3.80e-05  4.66e-04
## 2750  5.05e-03  1.78e-03 -1.76e-03  5.22e-04  1.27e-03  7.42e-04  6.64e-04
## 2751  7.76e-03  3.77e-03  1.83e-02  1.23e-03  3.46e-03  7.49e-04  2.31e-03
## 2752 -1.82e-03 -5.53e-04  4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 2753  1.30e-02  4.62e-03 -5.57e-03  1.56e-03  3.97e-03  1.86e-03  2.09e-03
## 2754 -1.31e-03  4.14e-02  3.64e-03 -5.09e-04 -1.17e-03 -4.13e-05 -6.97e-04
## 2755  6.88e-04 -7.63e-02 -8.64e-03 -5.62e-04  4.37e-04  4.02e-04 -5.60e-04
## 2756 -1.04e-03  2.15e-04 -5.73e-04 -8.45e-05  4.29e-04  2.55e-04  9.34e-05
## 2757 -1.04e-03  2.15e-04 -5.73e-04 -8.45e-05  4.29e-04  2.55e-04  9.34e-05
## 2758  1.37e-04  9.91e-06  1.36e-03  6.33e-04  7.05e-04 -1.25e-04  1.57e-02
## 2759 -1.49e-03  8.32e-05 -4.18e-04  7.98e-04  1.94e-03  2.91e-05  1.32e-03
## 2760  3.89e-04  1.43e-04  1.06e-04 -4.46e-04  2.69e-03  1.67e-04 -5.92e-04
## 2761 -1.48e-04  3.91e-04 -1.79e-04 -6.77e-04  2.62e-03  5.56e-04 -1.60e-03
## 2762 -4.00e-03  4.90e-04 -2.36e-03 -3.09e-04  1.28e-03  7.54e-04  6.82e-05
## 2763 -4.22e-03  6.68e-04 -2.01e-03  3.95e-04  2.61e-03  7.74e-04  1.13e-03
## 2764 -4.86e-04  1.00e-04 -2.75e-04 -5.44e-05  1.45e-04  1.26e-04 -9.74e-06
## 2765 -3.34e-04  1.17e-05 -2.99e-04 -1.26e-04 -2.52e-03  5.97e-05 -1.99e-04
## 2766  2.38e-03  2.68e-04 -4.79e-05 -2.91e-03 -5.44e-03  5.50e-04 -4.19e-03
## 2767  2.04e-03  2.07e-03 -1.82e-03 -7.77e-03  6.34e-03  2.87e-03 -1.02e-02
## 2768  4.04e-03  5.73e-04 -2.50e-04 -5.34e-03 -9.62e-03  1.07e-03 -7.44e-03

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## 2769  2.52e-03  6.10e-04  2.19e-03  1.45e-04  1.58e-02  3.81e-04 -5.49e-04
## 2770 -4.55e-04  1.06e-05 -6.36e-04 -5.56e-04 -3.75e-03  1.15e-04 -5.69e-04
## 2771 -3.96e-04  5.61e-06 -5.67e-04 -5.00e-04 -3.42e-03  9.69e-05 -4.94e-04
## 2772 -8.57e-04  7.64e-04  1.35e-03 -1.19e-03 -2.62e-03  9.82e-04  3.19e-02
## 2773 -2.44e-04 -4.58e-05 -2.08e-04 -2.62e-05 -1.37e-03 -1.95e-05  7.87e-06
## 2774  3.76e-03 -3.77e-04  1.31e-03 -1.43e-03 -4.26e-03 -2.78e-04 -2.78e-03
## 2775  6.97e-04  1.56e-04  3.28e-04 -4.41e-04  4.69e-03  1.47e-04 -5.38e-04
## 2776  1.21e-03  4.17e-05  1.24e-03  7.08e-04  6.86e-03 -1.72e-04  8.43e-04
## 2777 -1.08e-02  1.46e-05 -4.01e-03  4.59e-03  1.16e-02  2.98e-05  7.45e-03
## 2778  8.29e-03  1.92e-03 -1.78e-03 -1.39e-02 -2.36e-02  3.24e-03 -1.87e-02
## 2779 -7.24e-04 -4.34e-04 -7.40e-05  1.16e-03 -2.23e-03 -5.08e-04  1.63e-03
## 2780  3.06e-02 -2.54e-03  1.59e-02 -2.66e-03 -1.73e-02 -3.91e-03 -7.23e-03
## 2781  2.29e-03  2.83e-04 -1.06e-04 -2.94e-03 -5.50e-03  5.82e-04 -4.28e-03
## 2782 -4.31e-03  2.38e-04 -2.02e-03  8.89e-04  3.39e-03  3.38e-04  1.90e-03
## 2783 -1.84e-04 -6.51e-04 -1.67e-03  1.87e-03  3.03e-03 -1.59e-01  2.62e-03
## 2784  5.94e-03  1.17e-03 -9.25e-04 -9.13e-03 -1.58e-02  2.03e-03 -1.24e-02
## 2785 -3.81e-04 -7.76e-05 -1.85e-03 -5.45e-04 -5.58e-04  1.02e-04 -2.15e-02
## 2786 -2.77e-04 -1.25e-05 -2.83e-05  1.31e-04  1.74e-04  2.35e-05  2.09e-05
## 2787  1.02e-03  4.41e-05  8.22e-05 -1.01e-03 -2.11e-03  1.55e-04 -1.61e-03
## 2788 -1.80e-03 -5.26e-04 -1.34e-03  3.61e-04 -1.02e-02 -4.15e-04  9.36e-04
## 2789 -2.43e-03 -6.13e-04 -1.81e-03  3.55e-04 -1.29e-02 -4.28e-04  9.02e-04
## 2790  1.44e-04  5.23e-06  1.74e-05 -1.30e-04 -2.61e-04  1.63e-05 -1.92e-04
## 2791 -2.05e-03  8.62e-04 -5.62e-03 -4.61e-03 -6.76e-03  1.87e-03 -4.40e-02
## 2792 -7.62e-04  1.57e-04 -4.32e-04 -8.62e-05  2.25e-04  1.98e-04 -1.87e-05
## 2793 -2.93e-04  4.68e-05 -1.42e-04  2.10e-05  1.62e-04  5.65e-05  6.04e-05
## 2794 -8.67e-04  1.20e-04 -3.90e-04  1.34e-04  5.71e-04  1.42e-04  2.58e-04
## 2795 -2.74e-03 -4.13e-04 -2.31e-03 -3.89e-04 -1.42e-02 -8.43e-05 -2.61e-04
## 2796 -5.28e-03  3.12e-04 -2.51e-03  9.90e-04  3.88e-03  4.65e-04  2.07e-03
## 2797 -1.68e-03 -5.80e-05  4.20e-03  3.41e-03  3.46e-03 -3.07e-04  5.60e-02
## 2798  6.36e-04  2.27e-04  9.12e-04  4.78e-04  7.70e-03  1.62e-04 -7.97e-05
## 2799 -1.04e-03  1.11e-04 -3.90e-04  3.36e-04  1.03e-03  1.02e-04  6.25e-04
## 2800 -4.84e-04  7.75e-05 -2.36e-04  3.27e-05  2.62e-04  9.44e-05  9.42e-05
## 2801 -7.70e-03  4.84e-04 -3.70e-03  1.40e-03  6.45e-03  5.84e-04  3.85e-03
## 2802  5.67e-03 -1.17e-03  3.22e-03  6.60e-04 -1.61e-03 -1.49e-03  2.04e-04
## 2803 -2.54e-03 -3.11e-04  1.35e-04  2.00e-03  2.81e-03 -7.74e-05  1.26e-03
## 2804 -1.81e-02 -3.09e-03  6.80e-02  4.57e-04 -2.99e-02 -4.25e-03  4.06e-03
## 2805 -2.92e-04  3.53e-05  8.71e-05 -2.77e-04 -4.60e-04 -3.73e-05  5.65e-03
## 2806 -1.31e-04  1.21e-05 -4.16e-05  5.85e-05  1.70e-04  6.03e-06  1.18e-04
## 2807 -5.80e-04 -7.36e-04 -6.87e-04  5.18e-04 -1.07e-02 -8.73e-04  2.17e-03
## 2808 -8.63e-04  5.10e-05 -4.10e-04  1.62e-04  6.35e-04  7.60e-05  3.39e-04
## 2809 -6.47e-03  5.36e-04 -3.35e-03  5.62e-04  3.65e-03  8.27e-04  1.53e-03
## 2810  4.07e-03  8.90e-04  4.17e-03  1.32e-03  3.00e-02  4.29e-04  4.69e-05
## 2811 -5.84e-04 -2.29e-04 -3.62e-04  3.09e-04 -3.24e-03 -2.19e-04  5.86e-04
## 2812 -8.49e-04  3.68e-05 -3.77e-04  2.34e-04  9.37e-04  2.13e-05  6.43e-04
## 2813 -1.92e-04  1.09e-04 -2.85e-03 -1.79e-03 -2.15e-03  4.28e-04 -3.12e-02
## 2814 -6.81e-03 -8.95e-04  2.50e-02 -9.06e-04 -1.28e-02 -1.19e-03  8.99e-05
## 2815 -5.72e-03  1.04e-03 -2.95e-03  5.35e-06  2.82e-03  1.24e-03  8.98e-04
## 2816 -5.37e-03  9.76e-04 -2.77e-03  5.01e-06  2.65e-03  1.16e-03  8.42e-04
## 2817 -7.03e-04  2.20e-05 -2.98e-04  2.15e-04  6.64e-04  2.82e-05  4.11e-04
## 2818 -7.26e-04  9.89e-05 -3.20e-04  1.26e-04  5.17e-04  1.13e-04  2.53e-04
## 2819 -5.22e-03  1.64e-04 -5.71e-03 -4.05e-03 -2.93e-02  1.24e-03 -5.23e-03
## 2820  2.01e-02 -2.06e-03  1.11e-02 -9.07e-05 -8.88e-03 -3.18e-03 -2.53e-03
## 2821 -9.60e-05 -9.44e-06 -1.06e-04 -5.94e-05 -6.67e-04  6.13e-06 -5.13e-05
## 2822  4.61e-04  9.01e-05  1.66e-04 -3.35e-04  1.95e-03  7.76e-05 -3.18e-04

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## 2823 -1.45e-02 -2.50e-03 7.09e-02 4.52e-03 5.88e-03 -4.15e-03 -6.55e-02
## 2824 -1.46e-02 -1.84e-03 7.20e-02 -1.47e-01 1.99e-03 -3.34e-03 3.34e-03
## 2825 -3.84e-03 3.79e-04 -2.10e-03 9.25e-05 1.93e-03 5.65e-04 7.12e-04
## 2826 2.16e-03 7.36e-04 1.36e-03 -9.57e-04 1.11e-02 6.61e-04 -1.74e-03
## 2827 -2.34e-03 -3.16e-04 -2.83e-04 2.38e-03 5.27e-03 -5.98e-04 4.20e-03
## 2828 -8.36e-03 -4.40e-04 -2.26e-03 5.58e-03 1.37e-02 -9.53e-04 1.03e-02
## 2829 -5.46e-04 -2.43e-05 -4.15e-04 -3.40e-05 -3.96e-03 3.20e-05 -9.51e-05
## 2830 -1.49e-03 -5.08e-04 -1.11e-03 3.97e-04 -9.14e-03 -4.40e-04 1.04e-03
## 2831 7.14e-04 -2.28e-04 9.82e-04 1.08e-03 6.22e-03 -4.34e-04 1.51e-03
## 2832 -1.21e-03 6.08e-04 -3.10e-03 -7.53e-02 -5.25e-03 1.25e-03 -4.73e-03
## 2833 -5.82e-04 4.64e-05 -2.98e-04 5.95e-05 3.54e-04 6.97e-05 1.62e-04
## 2834 -5.19e-03 1.87e-04 -2.25e-03 1.47e-03 4.62e-03 2.65e-04 2.76e-03
## 2835 -7.38e-03 1.52e-03 -4.22e-03 -9.06e-04 1.91e-03 1.96e-03 -4.38e-04
## 2836 -1.72e-03 2.39e-04 -7.80e-04 2.56e-04 1.11e-03 2.87e-04 4.89e-04
## 2837 3.72e-03 1.34e-03 -1.60e-03 -2.39e-05 4.93e-04 6.15e-04 1.23e-04
## 2838 1.47e-03 1.17e-04 1.07e-04 -1.50e-03 -2.71e-03 2.18e-04 -1.98e-03
## 2839 1.09e-03 -1.20e-04 4.20e-04 -3.23e-04 -1.00e-03 -1.19e-04 -5.86e-04
## 2840 6.50e-04 9.80e-05 2.93e-04 -3.45e-04 3.03e-03 6.56e-05 -2.89e-04
## 2841 -2.31e-03 -1.83e-04 -2.14e-03 -8.57e-04 -1.21e-02 1.68e-04 -1.01e-03
## 2842 8.51e-03 -1.06e-03 5.06e-03 7.52e-04 -2.41e-03 -1.66e-03 1.71e-04
## 2843 3.55e-02 1.08e-03 -7.23e-02 -5.29e-03 -1.63e-02 2.17e-03 -1.09e-02
## 2844 -1.63e-02 -6.76e-03 7.52e-03 1.95e-03 1.27e-03 -3.84e-03 2.77e-03
## 2845 -2.48e-03 1.12e-05 -9.36e-04 1.02e-03 2.57e-03 2.39e-05 1.63e-03
## 2846 -1.83e-02 -7.66e-03 8.57e-03 2.25e-03 1.52e-03 -4.38e-03 3.24e-03
## 2847 1.39e-03 -3.33e-05 1.25e-03 5.12e-04 1.11e-02 -2.24e-04 7.62e-04
## 2848 -2.98e-02 -1.20e-02 1.54e-02 1.23e-03 -2.01e-03 -6.24e-03 1.80e-03
## 2849 -2.21e-02 -9.53e-03 1.25e-02 3.49e-03 2.26e-03 -5.58e-03 4.69e-03
## 2850 -1.53e-04 5.45e-05 -5.14e-04 -7.41e-05 -2.16e-04 1.15e-04 -7.20e-03
## 2851 -3.85e-02 -1.51e-02 1.62e-02 2.76e-03 9.77e-05 -8.02e-03 3.54e-03
## 2852 -2.55e-02 -1.01e-02 1.28e-02 1.70e-03 -9.11e-04 -5.30e-03 1.94e-03
## 2853 5.47e-03 -9.96e-04 2.83e-03 1.99e-05 -2.62e-03 -1.20e-03 -7.81e-04
## 2854 -9.42e-04 1.25e-04 -4.01e-04 1.94e-04 7.52e-04 1.33e-04 4.05e-04
## 2855 1.31e-03 3.17e-04 6.00e-04 -8.93e-04 9.15e-03 3.15e-04 -1.13e-03
## 2856 -7.30e-04 8.02e-04 -1.44e-04 -2.19e-03 -3.75e-03 1.16e-03 1.43e-02
## 2857 2.74e-03 -1.14e-04 1.21e-03 -7.36e-04 -2.61e-03 -1.25e-04 -1.65e-03
## 2858 -7.52e-04 -2.12e-04 -6.64e-04 -1.51e-05 -5.07e-03 -1.54e-04 2.68e-04
## 2859 1.55e-03 2.48e-03 1.20e-04 -4.69e-03 1.89e-02 3.18e-03 -9.28e-03
## 2860 -3.80e-02 7.05e-04 8.79e-02 2.38e-03 1.28e-02 -7.58e-04 7.97e-03
## 2861 1.73e-03 -1.21e-04 5.63e-04 -7.62e-04 -1.87e-03 -1.03e-04 -1.17e-03
## 2862 1.48e-03 5.21e-06 2.78e-04 -1.12e-03 -2.31e-03 8.33e-05 -1.64e-03
## 2863 5.35e-04 8.58e-05 5.78e-04 1.44e-04 8.20e-03 6.44e-05 -1.25e-04
## 2864 1.91e-03 -3.47e-04 9.85e-04 -1.78e-06 -9.41e-04 -4.14e-04 -2.99e-04
## 2865 -2.07e-03 -7.08e-04 -1.55e-03 5.54e-04 -1.27e-02 -6.15e-04 1.45e-03
## 2866 2.73e-02 2.30e-03 -6.97e-02 -8.52e-03 -2.19e-02 4.60e-03 -1.81e-02
## 2867 6.45e-04 4.07e-04 2.05e-04 -8.51e-04 3.36e-03 4.67e-04 -1.40e-03
## 2868 -1.72e-03 -1.11e-04 -4.31e-04 1.21e-03 2.69e-03 -1.91e-04 1.97e-03
## 2869 2.25e-03 1.01e-05 4.17e-04 -1.71e-03 -3.53e-03 1.32e-04 -2.51e-03
## 2870 8.81e-04 1.58e-04 3.76e-04 -5.40e-04 4.37e-03 1.28e-04 -5.19e-04
## 2871 1.00e-03 3.13e-04 1.97e-04 -1.15e-03 4.31e-03 3.46e-04 -1.30e-03
## 2872 -5.85e-04 1.42e-04 -6.82e-04 -6.43e-04 -4.14e-03 2.88e-04 -9.77e-04
## 2873 -3.06e-03 3.31e-04 -1.16e-03 9.46e-04 2.91e-03 3.17e-04 1.74e-03
## 2874 3.12e-04 3.49e-04 8.13e-04 -1.91e-03 -2.46e-03 4.39e-04 2.37e-02
## 2875 -4.72e-02 1.53e-03 1.07e-01 3.57e-04 1.19e-02 1.33e-04 6.13e-03
## 2876 -4.53e-03 5.51e-04 -2.67e-03 -3.27e-04 1.54e-03 8.41e-04 1.57e-04

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## 2877 -3.49e-03 5.49e-04 -1.64e-03 3.73e-04 2.29e-03 6.21e-04 1.06e-03
## 2878 -2.58e-03 1.08e-04 -1.14e-03 6.93e-04 2.46e-03 1.18e-04 1.55e-03
## 2879 -2.54e-04 -2.48e-04 3.54e-05 -1.39e-02 1.16e-03 -3.05e-04 1.03e-03
## 2880 7.89e-03 -1.44e-03 4.13e-03 1.10e-04 -3.51e-03 -1.77e-03 -8.73e-04
## 2881 -5.33e-03 3.45e-04 -2.59e-03 8.62e-04 3.55e-03 5.42e-04 1.74e-03
## 2882 -1.77e-04 -9.90e-05 9.42e-04 2.48e-04 4.33e-04 -1.56e-04 1.64e-02
## 2883 -1.62e-02 -4.66e-03 5.01e-03 2.87e-03 1.58e-02 -2.47e-03 4.57e-03
## 2884 1.16e-02 4.16e-03 -4.13e-03 8.26e-04 2.39e-03 1.81e-03 1.11e-03
## 2885 1.81e-02 6.05e-03 -7.03e-03 3.60e-03 7.65e-03 2.02e-03 4.86e-03
## 2886 1.16e-02 4.37e-03 -4.52e-03 -1.21e-05 1.16e-03 2.12e-03 -7.71e-06
## 2887 3.51e-03 1.26e-03 -1.26e-03 3.51e-04 8.56e-04 5.35e-04 4.24e-04
## 2888 3.50e-02 1.57e-02 8.34e-02 9.78e-03 2.18e-02 1.63e-03 1.62e-02
## 2889 -2.39e-04 -9.23e-05 9.77e-05 2.11e-06 -2.03e-05 -4.62e-05 5.32e-06
## 2890 9.08e-03 3.03e-03 -3.44e-03 9.37e-04 2.66e-03 1.13e-03 1.61e-03
## 2891 -1.11e-03 1.03e-04 -4.06e-04 3.84e-04 1.05e-03 1.04e-04 6.15e-04
## 2892 -6.51e-03 -1.77e-03 1.85e-03 6.38e-04 5.66e-03 -8.29e-04 1.22e-03
## 2893 2.18e-03 8.00e-04 -8.21e-04 2.73e-04 5.95e-04 3.42e-04 2.88e-04
## 2894 3.01e-03 1.08e-03 -1.08e-03 1.19e-04 4.86e-04 4.89e-04 1.81e-04
## 2895 7.18e-03 2.65e-03 -3.24e-03 3.41e-04 1.45e-03 1.19e-03 5.25e-04
## 2896 -6.96e-05 -2.64e-06 -9.33e-06 6.09e-05 1.18e-04 -6.92e-06 8.52e-05
## 2897 2.22e-03 7.87e-04 -7.81e-04 2.26e-04 5.50e-04 3.30e-04 2.83e-04
## 2898 -1.38e-02 -3.88e-03 4.13e-03 1.77e-03 1.27e-02 -1.92e-03 3.16e-03
## 2899 1.61e-03 5.93e-04 -7.14e-04 -1.83e-05 2.00e-04 2.77e-04 3.22e-05
## 2900 1.89e-03 5.35e-04 -5.75e-04 -2.48e-04 -1.75e-03 2.69e-04 -4.47e-04
## 2901 4.59e-03 1.28e-03 -1.42e-03 -7.61e-04 -1.43e-03 6.95e-04 -7.32e-03
## 2902 -9.53e-03 -1.78e-04 -3.19e-03 4.84e-03 1.13e-02 -2.63e-04 7.60e-03
## 2903 -1.55e-03 1.21e-04 -4.06e-04 8.81e-04 2.49e-03 -8.17e-06 1.85e-03
## 2904 -2.14e-03 8.23e-05 -5.53e-04 1.27e-03 2.88e-03 3.95e-06 1.96e-03
## 2905 1.34e-03 1.10e-03 -1.15e-03 7.25e-02 -7.27e-03 1.53e-03 -6.14e-03
## 2906 3.92e-03 -3.98e-04 2.16e-03 -4.26e-05 -1.81e-03 -6.07e-04 -5.71e-04
## 2907 -2.13e-02 9.49e-04 4.77e-02 -9.00e-04 3.82e-03 4.50e-04 1.38e-03
## 2908 4.91e-03 -2.23e-04 1.21e-03 -2.99e-03 -7.24e-03 5.20e-05 -5.13e-03
## 2909 1.31e-03 1.44e-03 -1.74e-03 7.86e-02 -9.34e-03 2.05e-03 -8.01e-03
## 2910 -5.43e-04 -4.86e-05 -5.08e-04 -2.00e-04 -2.93e-03 3.25e-05 -2.21e-04
## 2911 -1.82e-03 -2.06e-04 6.45e-03 -4.90e-06 -2.96e-05 -2.52e-04 -7.02e-03
## 2912 3.83e-04 1.60e-04 1.36e-04 -3.70e-04 1.35e-03 1.66e-04 -5.14e-04
## 2913 -2.35e-03 -4.44e-05 -2.37e-03 -1.36e-03 -1.26e-02 3.80e-04 -1.73e-03
## 2914 -5.65e-04 -3.93e-04 -4.26e-04 4.22e-04 -5.37e-03 -4.36e-04 1.13e-03
## 2915 1.10e-02 -1.18e-03 4.13e-03 -3.56e-03 -1.09e-02 -1.08e-03 -6.62e-03
## 2916 -2.13e-04 3.71e-05 -2.89e-04 -2.61e-04 -2.54e-03 8.25e-05 -3.05e-04
## 2917 3.75e-03 -4.58e-04 4.95e-03 4.66e-03 2.50e-02 -1.42e-03 5.80e-03
## 2918 -6.94e-04 2.50e-04 -1.10e-03 -1.29e-03 -7.84e-03 4.64e-04 -1.66e-03
## 2919 1.04e-02 3.26e-03 -3.46e-03 6.29e-04 2.53e-03 1.16e-03 1.72e-03
## 2920 -1.85e-03 -2.25e-04 -1.54e-03 -3.10e-04 -8.92e-03 1.26e-05 -3.56e-04
## 2921 1.83e-03 -1.78e-04 9.96e-04 -6.20e-05 -9.78e-04 -2.60e-04 -3.94e-04
## 2922 1.37e-02 -1.07e-03 6.96e-03 -1.50e-03 -8.63e-03 -1.58e-03 -4.10e-03
## 2923 -1.05e-03 -5.96e-04 -7.86e-04 6.03e-04 -8.70e-03 -6.31e-04 1.61e-03
## 2924 7.97e-03 -6.48e-04 4.11e-03 -7.53e-04 -4.67e-03 -9.87e-04 -2.05e-03
## 2925 -1.47e-05 -4.97e-05 1.13e-04 6.77e-03 2.67e-04 -6.98e-05 2.20e-04
## 2926 -5.23e-03 2.27e-04 -2.33e-03 1.44e-03 5.77e-03 1.31e-04 3.96e-03
## 2927 -1.93e-03 1.00e-04 -2.49e-03 -2.12e-03 -1.36e-02 5.45e-04 -2.42e-03
## 2928 -1.59e-03 -3.63e-04 -1.03e-03 4.04e-04 -6.80e-03 -2.43e-04 5.86e-04
## 2929 2.68e-04 -3.81e-05 7.33e-04 -8.98e-05 4.85e-05 -1.12e-04 1.11e-02
## 2930 2.46e-03 1.30e-03 -5.22e-04 -5.08e-03 6.72e-03 1.65e-03 -6.07e-03

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## 2931 -2.03e-02 -4.07e-03 9.26e-02 5.39e-03 -3.31e-02 -6.56e-03 1.07e-02
## 2932 -5.59e-02 -3.21e-03 1.26e-01 1.33e-02 3.52e-02 -6.25e-03 2.67e-02
## 2933 2.88e-02 1.38e-02 6.91e-02 6.16e-03 1.51e-02 2.35e-03 1.04e-02
## 2934 1.84e-02 6.26e-03 -7.29e-03 2.38e-03 5.98e-03 2.34e-03 3.53e-03
## 2935 -7.54e-03 -2.57e-03 2.47e-03 -1.29e-03 -2.62e-03 -9.53e-04 -1.61e-03
## 2936 4.45e-02 1.88e-02 1.06e-01 1.52e-02 3.18e-02 7.06e-04 2.47e-02
## 2937 3.04e-02 1.67e-02 6.87e-02 -2.51e-03 2.86e-03 5.69e-03 -5.78e-04
## 2938 -4.95e-03 -1.84e-03 1.92e-03 -6.03e-04 -1.31e-03 -8.07e-04 -5.92e-04
## 2939 6.29e-03 2.60e-03 -2.88e-03 -5.63e-04 -2.30e-04 1.44e-03 -8.70e-04
## 2940 3.67e-02 2.06e-02 7.96e-02 -4.23e-03 -6.62e-04 8.09e-03 -4.21e-03
## 2941 -1.93e-03 -7.94e-04 8.80e-04 1.71e-04 6.69e-05 -4.41e-04 2.62e-04
## 2942 2.36e-03 8.35e-04 -8.25e-04 2.43e-04 5.90e-04 3.48e-04 3.08e-04
## 2943 -4.02e-02 -1.68e-02 2.19e-02 4.67e-03 1.61e-03 -9.44e-03 6.19e-03
## 2944 -4.01e-03 -1.54e-03 1.63e-03 3.07e-05 -3.49e-04 -7.68e-04 7.62e-05
## 2945 8.49e-03 3.17e-03 -3.28e-03 2.52e-04 1.21e-03 1.50e-03 2.71e-04
## 2946 1.30e-02 4.75e-03 -5.77e-03 6.42e-04 2.67e-03 2.11e-03 1.02e-03
## 2947 1.01e-02 3.40e-03 -3.20e-03 1.77e-03 3.60e-03 1.21e-03 2.29e-03
## 2948 1.01e-03 3.92e-04 -4.18e-04 -1.18e-05 7.95e-05 1.98e-04 -3.06e-05
## 2949 1.16e-02 4.42e-03 -5.46e-03 -2.62e-04 1.19e-03 2.16e-03 -1.17e-04
## 2950 3.88e-02 1.90e-02 8.64e-02 4.58e-03 1.26e-02 4.83e-03 7.93e-03
## 2951 1.30e-02 4.67e-03 -5.68e-03 1.52e-03 3.89e-03 1.92e-03 1.97e-03
## 2952 3.89e-02 2.03e-02 9.00e-02 1.41e-03 1.04e-02 5.62e-03 5.24e-03
## 2953 -3.17e-02 1.44e-03 7.06e-02 -1.41e-03 5.51e-03 7.35e-04 1.84e-03
## 2954 -2.43e-03 3.29e-04 -1.06e-03 4.48e-04 1.80e-03 3.67e-04 9.11e-04
## 2955 -7.79e-03 -4.76e-04 -2.00e-03 5.43e-03 1.26e-02 -9.10e-04 9.39e-03
## 2956 -1.36e-03 8.32e-04 -6.30e-04 6.26e-02 -3.13e-03 1.27e-03 -3.71e-03
## 2957 -3.84e-03 -3.13e-04 -8.43e-04 2.99e-03 6.64e-03 -5.59e-04 4.99e-03
## 2958 8.26e-04 6.93e-04 -2.99e-04 -2.32e-03 6.34e-03 9.44e-04 -3.28e-03
## 2959 7.82e-04 3.50e-04 1.62e-04 -1.08e-03 6.06e-03 4.32e-04 -1.50e-03
## 2960 -1.13e-03 -1.11e-04 -1.25e-03 -6.99e-04 -7.86e-03 7.22e-05 -6.04e-04
## 2961 1.05e-03 3.27e-04 2.06e-04 -1.21e-03 4.51e-03 3.62e-04 -1.36e-03
## 2962 -1.56e-03 7.35e-04 -2.15e-04 -1.55e-03 -3.12e-03 1.16e-03 1.59e-02
## 2963 -2.14e-03 -2.99e-04 -1.59e-03 -1.23e-05 -9.05e-03 -5.50e-05 -9.04e-05
## 2964 9.77e-04 1.86e-05 1.62e-04 -7.85e-04 -1.57e-03 7.17e-05 -1.12e-03
## 2965 -6.46e-04 -3.00e-04 3.14e-04 1.61e-03 3.68e-03 -6.22e-04 3.28e-03
## 2966 -2.89e-03 2.52e-04 -1.01e-03 1.11e-03 3.01e-03 2.23e-04 1.86e-03
## 2967 3.07e-03 -1.29e-06 2.32e-03 4.20e-04 1.88e-02 -3.90e-04 1.17e-03
## 2968 1.40e-03 1.88e-04 8.69e-04 -3.94e-04 9.91e-03 1.08e-04 -4.20e-04
## 2969 1.97e-03 3.58e-06 2.30e-03 1.66e-03 1.29e-02 -3.93e-04 1.87e-03
## 2970 -4.26e-04 2.49e-05 -2.01e-04 8.66e-05 3.82e-04 2.74e-05 2.38e-04
## 2971 -1.63e-03 2.61e-04 -7.91e-04 1.21e-04 9.17e-04 3.13e-04 3.48e-04
## 2972 -1.69e-04 -2.16e-05 -1.93e-04 -1.07e-04 -1.27e-03 4.57e-06 -7.73e-05
## 2973 8.09e-03 2.21e-03 -1.00e-03 -1.25e-02 -2.11e-02 3.20e-03 -1.66e-02
## 2974 -1.63e-03 2.61e-04 -7.91e-04 1.21e-04 9.17e-04 3.13e-04 3.48e-04
## 2975 4.37e-04 2.36e-04 -2.01e-04 -6.24e-04 1.22e-03 1.38e-04 -1.68e-04
## 2976 -8.43e-04 -2.88e-04 -6.30e-04 2.25e-04 -5.18e-03 -2.50e-04 5.91e-04
## 2977 -1.09e-02 2.94e-04 -4.55e-03 3.45e-03 9.66e-03 4.97e-04 5.68e-03
## 2978 -3.25e-06 1.48e-06 -6.81e-06 -8.72e-06 -5.66e-05 2.63e-06 -9.86e-06
## 2979 4.05e-05 3.38e-05 -3.49e-04 -3.19e-04 -3.91e-04 7.37e-05 -3.76e-03
## 2980 -2.02e-02 2.54e-04 4.90e-02 1.63e-03 7.77e-03 -7.09e-04 5.27e-03
## 2981 -2.57e-03 -2.01e-05 -2.56e-03 -1.47e-03 -1.32e-02 4.50e-04 -1.97e-03
## 2982 6.11e-03 -8.31e-04 2.69e-03 -1.07e-03 -4.38e-03 -9.44e-04 -2.16e-03
## 2983 6.11e-03 -8.31e-04 2.69e-03 -1.07e-03 -4.38e-03 -9.44e-04 -2.16e-03
## 2984 4.13e-03 1.50e-03 8.28e-04 -5.10e-03 2.31e-02 1.74e-03 -6.32e-03

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## 2985 -1.44e-03 1.61e-04 -5.66e-04 4.11e-04 1.28e-03 1.65e-04 7.35e-04
## 2986 8.92e-04 1.91e-04 3.56e-04 -6.33e-04 4.74e-03 1.75e-04 -6.77e-04
## 2987 1.03e-03 -4.97e-05 2.19e-04 -7.07e-04 -1.82e-03 4.81e-05 -1.37e-03
## 2988 3.38e-03 4.37e-04 -1.11e-04 -4.24e-03 -7.62e-03 8.07e-04 -5.83e-03
## 2989 -8.58e-03 -1.02e-04 -2.97e-03 4.23e-03 1.13e-02 -3.53e-04 7.99e-03
## 2990 -3.88e-03 5.14e-04 -1.64e-03 8.32e-04 3.19e-03 5.36e-04 1.76e-03
## 2991 1.58e-04 9.79e-05 3.51e-05 -2.63e-04 1.91e-03 1.29e-04 -4.28e-04
## 2992 -1.11e-03 7.67e-06 -2.99e-03 -1.03e-03 -1.36e-03 3.91e-04 -3.06e-02
## 2993 -3.85e-03 6.14e-04 -1.86e-03 2.93e-04 2.18e-03 7.36e-04 8.39e-04
## 2994 -4.24e-03 7.72e-04 -2.20e-03 -2.81e-05 1.99e-03 9.34e-04 5.65e-04
## 2995 5.35e-03 2.07e-03 -2.61e-03 1.83e-04 9.45e-04 9.87e-04 1.84e-04
## 2996 -1.43e-03 2.93e-04 -8.12e-04 -1.70e-04 3.86e-04 3.76e-04 -6.81e-05
## 2997 8.78e-04 2.72e-05 1.33e-04 -7.34e-04 -1.42e-03 7.37e-05 -1.01e-03
## 2998 -8.38e-04 1.33e-04 -3.98e-04 7.85e-05 5.18e-04 1.54e-04 2.24e-04
## 2999 -1.02e-03 -7.23e-05 -1.69e-03 -6.73e-02 -1.07e-03 1.88e-04 -9.46e-04
## 3000 1.25e-02 3.58e-03 -3.83e-03 -2.19e-03 -1.21e-02 1.88e-03 -3.48e-03
## 3001 1.83e-03 -3.31e-06 3.69e-04 -1.31e-03 -2.72e-03 7.92e-05 -1.90e-03
## 3002 1.74e-03 1.79e-04 7.64e-06 -2.03e-03 -3.79e-03 3.65e-04 -2.89e-03
## 3003 9.86e-03 -1.81e-03 5.27e-03 3.86e-04 -3.58e-03 -2.32e-03 -3.17e-04
## 3004 1.14e-03 -1.34e-04 4.74e-04 -2.65e-04 -8.63e-04 -1.55e-04 -4.38e-04
## 3005 -4.09e-03 8.45e-04 -2.23e-03 -2.77e-04 1.90e-03 9.75e-04 5.70e-04
## 3006 4.31e-04 -2.63e-05 2.06e-04 -7.70e-05 -3.07e-04 -3.99e-05 -1.59e-04
## 3007 2.12e-05 1.60e-06 1.36e-05 -3.17e-06 1.27e-04 -2.67e-07 -3.82e-07
## 3008 3.75e-03 -4.58e-04 4.95e-03 4.66e-03 2.50e-02 -1.42e-03 5.80e-03
## 3009 -1.03e-03 7.05e-05 -5.07e-04 1.62e-04 7.91e-04 9.27e-05 4.44e-04
## 3010 8.73e-04 -2.14e-05 1.13e-03 7.66e-04 1.26e-02 -1.40e-04 6.21e-04
## 3011 2.76e-03 -1.96e-04 1.37e-03 -3.98e-04 -2.01e-03 -2.67e-04 -1.09e-03
## 3012 -3.04e-04 2.03e-05 -1.48e-04 4.94e-05 2.37e-04 2.63e-05 1.35e-04
## 3013 -1.07e-04 1.26e-03 -2.55e-03 -5.62e-02 -7.31e-03 1.90e-03 -6.48e-03
## 3014 -3.27e-04 -2.72e-04 -1.37e-03 2.96e-04 6.64e-04 -2.08e-04 -1.92e-02
## 3015 1.72e-04 1.84e-04 -2.82e-04 6.57e-03 -3.74e-04 1.10e-04 -1.22e-04
## 3016 4.19e-03 -3.87e-04 1.33e-03 -1.87e-03 -5.45e-03 -1.93e-04 -3.77e-03
## 3017 3.57e-03 -2.52e-04 1.03e-03 -1.83e-03 -4.80e-03 -8.72e-05 -3.33e-03
## 3018 -1.33e-04 -6.72e-06 -1.29e-04 -4.36e-05 -1.45e-03 6.31e-06 -3.09e-05
## 3019 2.22e-04 9.33e-05 3.36e-04 1.74e-04 2.97e-03 7.38e-05 -6.37e-05
## 3020 2.29e-03 -3.15e-04 1.02e-03 -3.76e-04 -1.57e-03 -3.66e-04 -7.41e-04
## 3021 5.20e-05 -6.23e-05 2.01e-04 1.58e-02 2.84e-04 -9.30e-05 2.43e-04
## 3022 -1.38e-03 4.34e-05 -5.88e-04 4.23e-04 1.31e-03 5.55e-05 8.09e-04
## 3023 4.74e-03 -5.08e-04 1.78e-03 -1.52e-03 -4.64e-03 -4.70e-04 -2.82e-03
## 3024 -6.44e-03 -6.53e-04 -1.19e-03 5.51e-03 1.13e-02 -1.05e-03 8.48e-03
## 3025 -5.49e-03 1.25e-03 -3.35e-03 -1.17e-03 7.50e-04 1.63e-03 -9.19e-04
## 3026 -5.55e-03 -2.23e-04 -1.63e-03 3.40e-03 8.37e-03 -4.84e-04 6.14e-03
## 3027 -1.65e-03 8.42e-04 1.56e-03 -8.76e-04 -2.56e-03 1.14e-03 3.90e-02
## 3028 -2.90e-03 -5.01e-04 -2.47e-03 -3.53e-04 -1.58e-02 -1.73e-04 -5.76e-05
## 3029 -1.58e-03 -5.66e-05 -3.17e-03 -6.57e-04 -9.59e-04 3.66e-04 -3.18e-02
## 3030 4.53e-03 -5.19e-04 1.83e-03 -1.16e-03 -3.70e-03 -5.70e-04 -2.00e-03
## 3031 -4.14e-03 -1.35e-04 -1.28e-03 2.39e-03 5.91e-03 -2.93e-04 4.27e-03
## 3032 -5.66e-06 3.86e-04 -1.71e-04 2.34e-02 -1.70e-03 5.23e-04 -1.67e-03
## 3033 -9.26e-04 -3.36e-04 -1.83e-03 5.85e-04 9.53e-04 -1.96e-04 -2.31e-02
## 3034 9.52e-05 -7.19e-06 4.84e-04 -1.22e-04 -7.60e-05 -3.86e-05 8.43e-03
## 3035 -2.08e-03 8.65e-04 -3.09e-03 -3.79e-03 -1.71e-02 1.57e-03 -5.41e-03
## 3036 -1.54e-04 2.51e-05 -2.48e-04 -2.36e-04 -2.52e-03 5.67e-05 -2.28e-04
## 3037 2.68e-04 -4.66e-05 3.64e-04 3.28e-04 3.19e-03 -1.04e-04 3.83e-04
## 3038 1.83e-03 -3.31e-06 3.69e-04 -1.31e-03 -2.72e-03 7.92e-05 -1.90e-03

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## 3039 -6.68e-03 -6.15e-04 -1.34e-03 5.48e-03 1.17e-02 -1.04e-03 8.76e-03
## 3040 6.54e-04 1.76e-04 6.85e-04 -1.16e-03 -1.36e-03 1.55e-04 1.38e-02
## 3041 3.20e-03 1.14e-03 1.09e-03 -2.89e-03 9.05e-03 1.12e-03 -3.60e-03
## 3042 2.35e-04 1.83e-04 -1.21e-03 -4.65e-02 -2.27e-03 3.56e-04 -1.67e-03
## 3043 -4.71e-02 2.04e-03 1.07e-01 -1.83e-03 8.91e-03 8.36e-04 3.57e-03
## 3044 -9.85e-04 -3.96e-05 -1.09e-04 9.12e-04 1.83e-03 -1.20e-04 1.36e-03
## 3045 -6.68e-03 -1.51e-04 -2.17e-03 3.62e-03 9.57e-03 -4.34e-04 6.97e-03
## 3046 -3.77e-02 1.55e-03 8.72e-02 -1.22e-03 7.83e-03 4.35e-04 3.65e-03
## 3047 -2.04e-02 2.64e-04 4.00e-02 -6.12e-04 4.09e-03 7.87e-05 1.54e-03
## 3048 -2.34e-03 4.82e-04 -1.32e-03 -2.62e-04 7.01e-04 6.08e-04 -4.69e-05
## 3049 -1.90e-03 -8.55e-05 -1.93e-04 8.99e-04 1.19e-03 1.61e-04 1.43e-04
## 3050 -3.16e-05 -1.00e-04 4.73e-04 3.43e-04 5.37e-04 -1.58e-04 6.37e-03
## 3051 -6.57e-03 1.50e-03 -4.02e-03 -1.42e-03 8.20e-04 1.96e-03 -1.18e-03
## 3052 2.14e-02 8.29e-03 -1.04e-02 -5.99e-04 1.99e-03 4.13e-03 -5.23e-04
## 3053 -6.79e-03 -3.44e-04 -1.87e-03 4.42e-03 1.03e-02 -6.43e-04 7.50e-03
## 3054 -4.18e-03 7.62e-04 -2.18e-03 -5.83e-05 1.86e-03 9.35e-04 4.62e-04
## 3055 1.21e-03 -9.00e-05 6.07e-04 -1.53e-04 -8.19e-04 -1.28e-04 -4.18e-04
## 3056 -9.44e-04 -4.14e-04 -4.74e-04 7.30e-04 -4.70e-03 -4.25e-04 1.22e-03
## 3057 2.25e-03 1.01e-05 4.17e-04 -1.71e-03 -3.53e-03 1.32e-04 -2.51e-03
## 3058 -2.52e-04 1.45e-05 -2.20e-04 -9.78e-05 -1.68e-03 5.37e-05 -1.74e-04
## 3059 -1.29e-03 -6.00e-04 -4.17e-04 1.39e-03 -4.79e-03 -6.47e-04 2.00e-03
## 3060 -1.59e-03 -9.12e-05 -4.16e-04 1.11e-03 2.89e-03 -2.27e-04 2.25e-03
## 3061 5.36e-04 3.55e-05 4.09e-04 1.40e-05 4.19e-03 -1.36e-05 3.97e-05
## 3062 6.74e-05 -1.03e-04 7.66e-04 2.52e-04 4.77e-04 -1.84e-04 1.12e-02
## 3063 -7.28e-04 -2.72e-04 -1.93e-03 2.15e-04 4.91e-04 -1.18e-04 -2.41e-02
## 3064 8.09e-03 3.10e-03 -3.26e-03 -2.86e-04 4.07e-04 1.57e-03 -3.56e-04
## 3065 -4.22e-02 -2.20e-02 -9.29e-02 2.61e-03 -5.43e-03 -6.92e-03 -1.28e-03
## 3066 -4.16e-02 -2.22e-02 -9.06e-02 4.98e-03 -1.86e-03 -7.71e-03 1.88e-03
## 3067 -4.33e-02 -2.25e-02 -9.52e-02 2.68e-03 -5.56e-03 -7.09e-03 -1.31e-03
## 3068 3.92e-02 1.17e-02 6.25e-02 -3.48e-03 -4.15e-02 2.16e-03 -4.37e-03
## 3069 4.53e-03 -3.60e-04 1.45e-03 -2.01e-03 -5.36e-03 -2.38e-04 -3.53e-03
## 3070 -2.53e-03 3.89e-04 -1.13e-03 3.89e-04 2.01e-03 3.96e-04 1.10e-03
## 3071 4.42e-02 1.55e-02 7.00e-02 -1.04e-02 -5.89e-02 5.41e-03 -1.48e-02
## 3072 -7.33e-05 5.63e-05 8.56e-05 -8.95e-05 -1.97e-04 7.47e-05 2.23e-03
## 3073 2.80e-03 -5.82e-04 1.46e-03 5.56e-05 -1.80e-03 -6.04e-04 -8.73e-04
## 3074 -2.31e-03 -1.83e-04 -2.14e-03 -8.57e-04 -1.21e-02 1.68e-04 -1.01e-03
## 3075 -4.83e-04 -7.03e-05 -4.06e-04 -7.09e-05 -2.47e-03 -1.16e-05 -5.44e-05
## 3076 -2.83e-02 -5.59e-04 8.28e-02 -1.26e-02 -6.07e-02 2.68e-04 -1.47e-02
## 3077 5.70e-04 -1.90e-04 8.27e-04 9.30e-04 5.49e-03 -3.59e-04 1.26e-03
## 3078 1.41e-02 -1.41e-03 7.72e-03 -2.44e-04 -6.78e-03 -2.12e-03 -2.32e-03
## 3079 -3.72e-03 -3.38e-04 -7.54e-04 3.06e-03 6.78e-03 -6.14e-04 5.17e-03
## 3080 -1.74e-03 -3.16e-06 -2.03e-03 -1.46e-03 -1.14e-02 3.46e-04 -1.64e-03
## 3081 -1.74e-03 -1.06e-04 -4.46e-04 1.21e-03 2.82e-03 -2.03e-04 2.10e-03
## 3082 2.46e-03 5.40e-04 -7.42e-04 -4.55e-03 -8.81e-03 1.18e-03 -7.30e-03
## 3083 -2.55e-02 -2.20e-03 5.48e-02 9.64e-03 2.03e-02 -3.73e-03 1.55e-02
## 3084 -2.24e-02 -2.91e-03 1.04e-01 -3.81e-03 -3.77e-03 -4.29e-03 -1.12e-01
## 3085 1.27e-02 4.42e-03 -5.15e-03 4.18e-04 2.43e-03 1.88e-03 1.13e-03
## 3086 1.56e-02 4.12e-03 -5.06e-03 -2.06e-03 -1.40e-02 1.90e-03 -3.10e-03
## 3087 -7.48e-03 -1.40e-04 -2.50e-03 3.86e-03 9.59e-03 -3.05e-04 6.67e-03
## 3088 -1.59e-03 1.00e-04 -1.38e-03 -6.21e-04 -1.02e-02 3.53e-04 -1.14e-03
## 3089 9.05e-04 3.76e-04 7.77e-05 -1.34e-03 4.49e-03 4.54e-04 -1.65e-03
## 3090 9.35e-03 3.52e-03 -4.40e-03 6.88e-04 2.19e-03 1.59e-03 8.06e-04
## 3091 1.64e-03 4.64e-04 -3.34e-04 6.12e-04 7.25e-04 1.69e-04 2.78e-04
## 3092 -5.02e-03 -1.96e-03 2.09e-03 2.07e-04 -1.97e-04 -1.01e-03 2.99e-04

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## 3093 4.49e-03 1.72e-03 -2.13e-03 -1.09e-04 4.45e-04 8.45e-04 -6.70e-05
## 3094 1.45e-02 4.32e-03 -5.80e-03 -2.53e-03 -1.50e-02 2.33e-03 -4.41e-03
## 3095 5.07e-03 2.37e-03 1.23e-02 1.39e-03 3.10e-03 3.08e-04 2.23e-03
## 3096 3.86e-03 1.48e-03 -1.83e-03 -9.44e-05 3.83e-04 7.27e-04 -5.82e-05
## 3097 6.07e-03 -6.39e-04 3.39e-03 4.66e-05 -2.46e-03 -1.00e-03 -5.43e-04
## 3098 -7.45e-03 9.12e-05 -2.91e-03 2.86e-03 7.81e-03 9.45e-05 5.04e-03
## 3099 7.23e-04 7.21e-05 5.54e-04 -2.11e-05 6.27e-03 1.85e-05 -5.76e-05
## 3100 -1.29e-03 5.86e-05 -5.79e-04 3.23e-04 1.17e-03 7.08e-05 7.15e-04
## 3101 -6.94e-04 8.20e-05 -2.47e-04 2.49e-04 8.42e-04 5.27e-05 5.73e-04
## 3102 -7.57e-03 6.80e-05 -2.91e-03 3.01e-03 8.21e-03 4.10e-05 5.38e-03
## 3103 -2.05e-03 -2.98e-04 -1.72e-03 -3.00e-04 -1.05e-02 -4.92e-05 -2.31e-04
## 3104 -4.92e-03 -2.23e-04 -1.41e-03 3.08e-03 7.19e-03 -4.11e-04 5.18e-03
## 3105 -1.90e-04 -7.65e-06 -2.10e-05 1.76e-04 3.53e-04 -2.33e-05 2.62e-04
## 3106 1.95e-04 1.28e-04 6.16e-04 -8.08e-04 -9.87e-04 1.41e-04 1.42e-02
## 3107 1.87e-04 -3.85e-05 1.07e-04 2.35e-05 -4.66e-05 -4.98e-05 1.29e-05
## 3108 -1.02e-03 -7.23e-05 -1.69e-03 -6.73e-02 -1.07e-03 1.88e-04 -9.46e-04
## 3109 -9.42e-04 2.98e-04 -1.28e-03 -1.39e-03 -8.02e-03 5.69e-04 -1.97e-03
## 3110 4.16e-03 1.05e-04 6.22e-04 -3.49e-03 -6.97e-03 3.64e-04 -5.03e-03
## 3111 -6.49e-04 5.92e-05 -3.46e-04 3.93e-05 4.00e-04 8.17e-05 1.92e-04
## 3112 -2.06e-04 1.56e-05 4.88e-06 2.52e-02 -1.88e-04 6.29e-05 -2.98e-04
## 3113 -2.32e-03 -6.33e-05 -3.10e-04 9.28e-04 1.21e-03 2.59e-04 -4.68e-05
## 3114 -1.04e-02 -1.05e-04 -3.63e-03 4.86e-03 1.14e-02 -1.00e-04 7.41e-03
## 3115 -6.61e-05 -3.75e-05 8.22e-05 9.11e-03 1.91e-04 -4.37e-05 1.27e-04
## 3116 -2.52e-04 -1.69e-05 2.37e-05 2.02e-02 4.28e-05 1.72e-05 -9.94e-05
## 3117 -1.94e-03 6.03e-04 -2.58e-03 -2.78e-03 -1.59e-02 1.15e-03 -3.98e-03
## 3118 2.77e-03 -3.72e-04 1.20e-03 -5.40e-04 -2.13e-03 -4.06e-04 -1.12e-03
## 3119 1.82e-04 2.04e-04 4.75e-04 -1.12e-03 -1.44e-03 2.57e-04 1.38e-02
## 3120 6.76e-04 2.09e-04 1.70e-04 -7.23e-04 3.48e-03 2.30e-04 -8.51e-04
## 3121 -4.13e-05 7.53e-06 -2.15e-05 -3.96e-07 1.90e-05 9.16e-06 5.13e-06
## 3122 2.56e-03 -2.23e-04 8.91e-04 -9.88e-04 -2.66e-03 -1.97e-04 -1.65e-03
## 3123 -9.02e-03 -2.14e-03 3.92e-02 4.28e-03 -1.10e-02 -3.34e-03 6.76e-03
## 3124 4.05e-03 -5.01e-04 2.40e-03 3.34e-04 -1.23e-03 -7.77e-04 4.64e-07
## 3125 -1.84e-03 3.87e-05 -7.45e-04 6.48e-04 1.96e-03 2.98e-05 1.29e-03
## 3126 -7.84e-04 -1.19e-05 -1.14e-03 -1.42e-04 -2.99e-04 1.63e-04 -1.04e-02
## 3127 -2.71e-05 -1.54e-04 6.28e-04 5.49e-04 8.48e-04 -2.42e-04 7.72e-03
## 3128 2.22e-07 -1.79e-05 6.07e-05 6.63e-05 1.01e-04 -2.81e-05 6.39e-04
## 3129 -4.15e-03 -2.06e-04 -1.15e-03 2.65e-03 5.88e-03 -3.33e-04 4.17e-03
## 3130 -1.56e-03 -1.44e-04 -3.13e-04 1.28e-03 2.73e-03 -2.43e-04 2.05e-03
## 3131 -5.55e-06 -6.75e-05 -1.55e-04 1.31e-04 2.43e-04 -7.59e-05 -2.90e-03
## 3132 -7.37e-04 -2.12e-04 -6.51e-04 -1.14e-05 -5.01e-03 -1.55e-04 2.75e-04
## 3133 1.21e-03 4.93e-04 5.77e-05 -1.83e-03 4.96e-03 5.90e-04 -2.17e-03
## 3134 -2.06e-04 -1.97e-04 -6.75e-04 3.67e-04 6.53e-04 -1.82e-04 -1.03e-02
## 3135 -3.76e-03 -1.75e-04 -1.07e-03 2.35e-03 5.22e-03 -2.78e-04 3.68e-03
## 3136 9.76e-03 -4.54e-04 4.41e-03 -2.41e-03 -8.72e-03 -5.59e-04 -5.32e-03
## 3137 -2.87e-03 1.10e-04 -7.39e-04 1.69e-03 3.85e-03 5.28e-06 2.63e-03
## 3138 3.69e-04 1.11e-04 1.56e-04 -3.07e-04 2.87e-03 1.21e-04 -4.24e-04
## 3139 1.01e-03 6.28e-04 2.25e-04 -1.68e-03 1.23e-02 8.24e-04 -2.75e-03
## 3140 6.90e-03 2.58e-03 -2.64e-03 -1.85e-04 4.62e-04 1.27e-03 -1.45e-04
## 3141 1.39e-03 5.64e-04 6.60e-05 -2.10e-03 5.68e-03 6.76e-04 -2.49e-03
## 3142 3.92e-03 7.52e-04 -8.30e-04 -6.48e-03 -1.23e-02 1.56e-03 -9.95e-03
## 3143 -7.71e-04 -1.41e-05 -1.14e-04 6.48e-04 1.34e-03 -7.07e-05 9.86e-04
## 3144 2.25e-02 9.00e-03 -1.14e-02 -1.56e-03 6.92e-04 4.74e-03 -1.87e-03
## 3145 1.56e-02 6.52e-03 -8.51e-03 -1.33e-03 2.23e-05 3.59e-03 -1.94e-03
## 3146 -3.68e-02 5.14e-04 8.81e-02 2.80e-03 1.37e-02 -1.16e-03 9.14e-03

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## 3147 -3.68e-03 -4.76e-05 -3.24e-03 -1.45e-03 -1.56e-02 5.81e-04 -2.36e-03
## 3148 -1.98e-02 -8.19e-03 1.06e-02 2.22e-03 6.42e-04 -4.55e-03 2.84e-03
## 3149 -2.59e-03 -1.01e-03 1.07e-03 2.93e-05 -2.07e-04 -5.08e-04 7.55e-05
## 3150 2.00e-03 7.21e-04 -7.30e-04 2.58e-04 5.61e-04 3.02e-04 2.87e-04
## 3151 2.45e-03 -8.14e-05 5.11e-04 -1.70e-03 -4.10e-03 1.12e-04 -3.02e-03
## 3152 -6.85e-03 -2.53e-03 3.12e-03 -5.40e-04 -1.67e-03 -1.11e-03 -6.98e-04
## 3153 4.41e-02 2.49e-02 9.57e-02 -5.18e-03 -9.71e-04 9.83e-03 -5.30e-03
## 3154 2.48e-03 8.60e-04 -8.44e-04 4.97e-04 9.49e-04 3.17e-04 5.75e-04
## 3155 1.10e-02 4.40e-03 -5.60e-03 -7.74e-04 3.16e-04 2.33e-03 -9.42e-04
## 3156 1.23e-02 4.99e-03 -5.47e-03 -1.02e-03 -2.93e-04 2.73e-03 -1.49e-03
## 3157 5.49e-03 1.95e-03 -1.93e-03 5.63e-04 1.37e-03 8.13e-04 7.08e-04
## 3158 4.16e-02 2.12e-02 9.23e-02 2.47e-03 9.93e-03 6.25e-03 5.07e-03
## 3159 -3.09e-03 3.94e-04 -3.96e-03 -3.68e-03 -1.95e-02 1.18e-03 -4.73e-03
## 3160 -7.38e-03 -2.62e-03 3.15e-03 -8.92e-04 -2.27e-03 -1.05e-03 -1.21e-03
## 3161 -9.65e-03 -3.61e-03 4.43e-03 -1.22e-04 -1.47e-03 -1.69e-03 -3.12e-04
## 3162 4.61e-03 1.44e-03 -1.65e-03 -1.15e-03 -5.09e-03 8.61e-04 -1.81e-03
## 3163 4.99e-03 1.81e-04 7.65e-04 -4.17e-03 -7.83e-03 4.05e-04 -5.50e-03
## 3164 -1.75e-04 -2.06e-04 -2.73e-04 5.98e-04 9.26e-04 -2.35e-04 -5.80e-03
## 3165 -4.91e-03 -1.84e-05 -1.77e-03 2.29e-03 6.66e-03 -2.04e-04 4.81e-03
## 3166 -4.73e-04 7.45e-05 -2.23e-04 4.87e-05 3.05e-04 8.48e-05 1.39e-04
## 3167 1.07e-03 8.46e-05 2.38e-04 -8.31e-04 -1.93e-03 1.65e-04 -1.47e-03
## 3168 -2.58e-03 -3.21e-04 -2.47e-03 -9.18e-04 -1.53e-02 3.86e-05 -7.73e-04
## 3169 6.53e-04 1.99e-04 2.12e-04 -6.33e-04 4.09e-03 2.19e-04 -7.92e-04
## 3170 4.98e-04 1.22e-04 1.56e-04 -4.36e-04 2.30e-03 1.21e-04 -4.67e-04
## 3171 8.89e-03 -1.42e-03 4.33e-03 -6.01e-04 -4.82e-03 -1.73e-03 -1.73e-03
## 3172 -3.68e-04 3.12e-04 2.78e-05 -4.85e-05 4.38e-03 4.51e-04 -1.08e-03
## 3173 1.86e-03 1.76e-04 3.62e-04 -1.57e-03 -3.64e-03 3.47e-04 -2.83e-03
## 3174 -2.28e-03 3.05e-04 -9.81e-04 4.43e-04 1.75e-03 3.33e-04 9.15e-04
## 3175 1.29e-03 2.58e-04 5.32e-04 -8.66e-04 6.69e-03 2.27e-04 -8.90e-04
## 3176 -1.48e-03 -6.04e-04 -5.33e-04 1.40e-03 -5.17e-03 -6.24e-04 1.93e-03
## 3177 -4.85e-04 -2.11e-04 -3.63e-04 1.92e-04 -3.42e-03 -2.05e-04 5.09e-04
## 3178 1.11e-03 8.09e-04 6.91e-04 -4.20e-03 -5.47e-03 1.02e-03 2.93e-02
## 3179 1.63e-04 1.09e-04 8.87e-04 4.60e-05 -7.97e-05 4.96e-05 1.16e-02
## 3180 -2.01e-03 -6.14e-04 -1.28e-03 7.71e-04 -9.80e-03 -5.18e-04 1.34e-03
## 3181 1.26e-03 -1.24e-04 6.87e-04 -3.03e-05 -6.32e-04 -1.85e-04 -2.33e-04
## 3182 -3.12e-03 1.41e-04 -7.70e-04 1.90e-03 4.59e-03 -3.30e-05 3.26e-03
## 3183 2.40e-02 1.34e-02 5.18e-02 -2.67e-03 -2.57e-04 5.18e-03 -2.51e-03
## 3184 1.08e-02 4.13e-03 -4.35e-03 -7.13e-05 9.61e-04 2.05e-03 -1.74e-04
## 3185 -9.93e-04 -3.23e-04 2.97e-04 -2.41e-04 -4.48e-04 -1.01e-04 -3.03e-04
## 3186 8.03e-03 2.90e-03 -2.90e-03 3.17e-04 1.30e-03 1.31e-03 4.85e-04
## 3187 3.63e-02 1.83e-02 7.81e-02 6.13e-04 6.61e-03 5.57e-03 3.08e-03
## 3188 -5.16e-03 6.42e-04 -3.06e-03 -4.51e-04 1.48e-03 1.01e-03 -8.69e-05
## 3189 -5.16e-03 6.42e-04 -3.06e-03 -4.51e-04 1.48e-03 1.01e-03 -8.69e-05
## 3190 3.02e-03 8.38e-04 -8.83e-04 -3.77e-04 -2.73e-03 4.10e-04 -6.63e-04
## 3191 5.46e-03 1.53e-03 -1.08e-03 2.04e-03 2.44e-03 5.45e-04 9.65e-04
## 3192 1.47e-03 4.84e-04 -4.45e-04 2.18e-04 4.76e-04 1.73e-04 3.09e-04
## 3193 -1.64e-03 -5.45e-04 5.06e-04 -2.41e-04 -5.25e-04 -1.98e-04 -3.36e-04
## 3194 -9.27e-04 -3.10e-04 2.89e-04 -1.07e-04 -2.57e-04 -1.18e-04 -1.59e-04
## 3195 -2.20e-03 -8.62e-04 9.17e-04 1.54e-04 -2.24e-06 -4.54e-04 1.92e-04
## 3196 -7.30e-03 -2.42e-03 2.23e-03 -8.59e-04 -2.05e-03 -9.06e-04 -1.30e-03
## 3197 1.54e-02 5.74e-03 -5.96e-03 1.39e-03 3.44e-03 2.57e-03 1.39e-03
## 3198 -4.81e-03 -1.76e-03 2.13e-03 -8.96e-05 -7.90e-04 -8.05e-04 -2.36e-04
## 3199 -2.17e-03 -8.15e-04 8.43e-04 2.03e-06 -2.17e-04 -3.96e-04 8.07e-07
## 3200 1.62e-02 5.97e-03 -6.09e-03 5.36e-04 2.41e-03 2.77e-03 6.79e-04

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## 3201 4.68e-04 1.70e-04 -2.02e-04 -3.43e-06 6.13e-05 7.80e-05 1.43e-05
## 3202 1.81e-02 4.81e-03 -6.08e-03 -1.68e-03 -1.59e-02 2.16e-03 -3.12e-03
## 3203 -3.62e-02 8.08e-04 8.85e-02 1.32e-03 1.19e-02 -8.41e-04 7.85e-03
## 3204 -2.54e-03 1.36e-04 -1.18e-03 5.72e-04 2.44e-03 1.32e-04 1.57e-03
## 3205 -4.75e-04 -3.51e-05 -1.67e-03 -5.31e-04 -6.26e-04 1.52e-04 -1.84e-02
## 3206 -4.03e-03 3.82e-05 -1.55e-03 1.64e-03 4.84e-03 -4.34e-05 3.35e-03
## 3207 1.79e-04 8.24e-04 2.77e-05 -3.86e-03 -5.32e-03 1.17e-03 2.35e-02
## 3208 1.12e-02 -1.15e-03 6.21e-03 -5.07e-05 -4.96e-03 -1.78e-03 -1.42e-03
## 3209 5.97e-03 -9.31e-04 2.75e-03 -7.42e-04 -4.22e-03 -1.01e-03 -2.11e-03
## 3210 -3.39e-03 -4.39e-05 -1.17e-03 1.63e-03 3.84e-03 -5.25e-05 2.52e-03
## 3211 -9.88e-04 -3.41e-05 -1.02e-03 -5.78e-04 -5.60e-03 1.41e-04 -6.89e-04
## 3212 1.30e-03 4.68e-04 2.56e-03 -8.13e-04 -1.32e-03 2.70e-04 3.23e-02
## 3213 1.16e-02 -1.78e-03 5.16e-03 -1.80e-03 -9.24e-03 -1.80e-03 -5.10e-03
## 3214 -9.82e-04 -4.82e-05 -1.24e-03 -9.10e-04 -7.69e-03 1.42e-04 -8.48e-04
## 3215 -8.19e-04 -4.30e-05 -8.61e-04 -4.87e-04 -4.94e-03 9.85e-05 -5.34e-04
## 3216 3.67e-04 2.77e-04 5.03e-04 -1.51e-03 -1.93e-03 3.40e-04 1.52e-02
## 3217 -2.19e-04 -7.55e-06 -2.25e-04 -1.28e-04 -1.24e-03 3.12e-05 -1.53e-04
## 3218 1.69e-03 2.33e-04 -1.66e-04 -2.36e-03 -4.54e-03 5.10e-04 -3.61e-03
## 3219 -6.41e-03 5.59e-04 -2.23e-03 2.47e-03 6.66e-03 4.93e-04 4.12e-03
## 3220 1.56e-04 1.44e-04 7.30e-05 -5.01e-04 -7.32e-04 1.72e-04 2.52e-03
## 3221 -7.42e-03 1.53e-03 -4.18e-03 -7.88e-04 2.38e-03 1.91e-03 3.83e-06
## 3222 -2.93e-05 7.59e-06 -3.89e-05 -3.91e-05 -2.74e-04 1.51e-05 -5.31e-05
## 3223 -1.22e-02 9.12e-04 -6.15e-03 1.55e-03 8.30e-03 1.30e-03 4.23e-03
## 3224 -1.05e-02 4.88e-04 -4.74e-03 2.59e-03 9.38e-03 6.01e-04 5.71e-03
## 3225 -7.28e-03 -8.74e-04 -1.10e-03 6.78e-03 1.36e-02 -1.38e-03 1.03e-02
## 3226 7.52e-04 4.73e-04 4.32e-04 -6.99e-04 5.54e-03 5.26e-04 -1.45e-03
## 3227 1.32e-03 7.89e-04 1.35e-04 -2.11e-03 4.05e-03 9.23e-04 -2.96e-03
## 3228 4.60e-04 2.43e-05 1.25e-04 -3.04e-04 -7.06e-04 4.58e-05 -5.18e-04
## 3229 1.97e-03 -1.24e-04 2.45e-03 2.07e-03 1.30e-02 -5.78e-04 2.48e-03
## 3230 2.39e-03 -1.51e-04 2.97e-03 2.50e-03 1.58e-02 -7.00e-04 3.00e-03
## 3231 2.51e-03 -3.28e-04 1.04e-03 -5.74e-04 -2.16e-03 -3.31e-04 -1.23e-03
## 3232 -2.98e-03 -6.90e-04 -1.94e-03 7.73e-04 -1.28e-02 -4.68e-04 1.14e-03
## 3233 -2.40e-05 -1.74e-06 -2.40e-04 -1.11e-04 -1.24e-04 2.20e-05 -2.77e-03
## 3234 -1.50e-02 -6.20e-03 8.10e-03 2.63e-04 -1.44e-03 -3.24e-03 7.75e-04
## 3235 -5.48e-03 -2.17e-03 2.35e-03 9.47e-05 -3.74e-04 -1.12e-03 2.51e-04
## 3236 -4.25e-03 -1.66e-03 2.07e-03 2.58e-04 -1.99e-04 -8.52e-04 2.57e-04
## 3237 -2.98e-03 3.28e-04 -1.15e-03 8.85e-04 2.74e-03 3.25e-04 1.61e-03
## 3238 2.01e-03 1.03e-03 -7.94e-04 6.68e-02 -6.95e-03 1.34e-03 -5.58e-03
## 3239 -1.74e-03 3.65e-05 -3.59e-04 1.23e-03 2.79e-03 -7.79e-05 2.02e-03
## 3240 -2.72e-03 2.72e-04 -9.45e-04 1.03e-03 3.07e-03 2.01e-04 2.00e-03
## 3241 -9.81e-03 -4.87e-04 -2.73e-03 6.27e-03 1.39e-02 -7.87e-04 9.87e-03
## 3242 4.20e-03 6.15e-04 -2.58e-04 -5.55e-03 -9.83e-03 1.10e-03 -7.56e-03
## 3243 -7.85e-03 1.53e-04 -3.15e-03 2.92e-03 9.66e-03 -6.82e-05 6.83e-03
## 3244 2.46e-03 2.11e-04 1.42e-04 -2.58e-03 -4.69e-03 3.97e-04 -3.46e-03
## 3245 1.96e-05 -2.71e-06 1.83e-05 1.19e-05 1.12e-04 -6.59e-06 2.14e-05
## 3246 4.05e-03 -4.83e-04 1.71e-03 -8.85e-04 -2.92e-03 -5.76e-04 -1.42e-03
## 3247 5.36e-03 -9.81e-04 2.84e-03 1.50e-04 -2.14e-03 -1.23e-03 -3.60e-04
## 3248 5.46e-04 -9.26e-05 7.99e-04 7.39e-04 7.52e-03 -2.07e-04 7.93e-04
## 3249 -3.19e-03 -2.32e-04 -7.52e-04 2.37e-03 5.25e-03 -4.08e-04 3.90e-03
## 3250 -3.86e-03 1.42e-04 -1.68e-03 1.13e-03 3.92e-03 1.29e-04 2.56e-03
## 3251 -9.36e-04 -4.45e-04 -7.02e-04 4.19e-04 -6.94e-03 -4.45e-04 1.12e-03
## 3252 -1.23e-02 2.12e-04 -4.91e-03 4.33e-03 1.11e-02 4.56e-04 6.49e-03
## 3253 9.24e-04 1.69e-04 2.79e-04 -7.20e-04 2.73e-03 1.37e-04 -6.04e-04
## 3254 -2.81e-02 -5.50e-03 9.89e-02 5.76e-03 -3.63e-02 -7.43e-03 1.10e-02

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## 3255 -1.04e-02 -2.58e-04 -3.37e-03 5.56e-03 1.30e-02 -4.20e-04 8.90e-03
## 3256 -8.93e-03 -5.08e-04 -2.37e-03 5.99e-03 1.33e-02 -8.49e-04 9.58e-03
## 3257 -4.36e-02 -1.72e-03 9.37e-02 7.58e-03 2.27e-02 -3.53e-03 1.62e-02
## 3258 -5.80e-04 1.06e-04 -6.53e-04 -5.47e-04 -4.56e-03 2.34e-04 -8.00e-04
## 3259 -3.31e-03 -4.47e-04 -3.20e-03 -1.17e-03 -2.01e-02 4.84e-06 -8.84e-04
## 3260 3.93e-04 3.24e-05 1.53e-05 -4.29e-04 -8.16e-04 7.13e-05 -6.18e-04
## 3261 -1.75e-04 -2.06e-04 -2.73e-04 5.98e-04 9.26e-04 -2.35e-04 -5.80e-03
## 3262 6.72e-02 1.08e-03 -1.41e-01 -5.26e-03 -2.54e-02 3.02e-03 -1.64e-02
## 3263 -7.24e-04 -4.34e-04 -7.40e-05 1.16e-03 -2.23e-03 -5.08e-04 1.63e-03
## 3264 3.63e-03 5.56e-04 -3.20e-04 -5.02e-03 -9.06e-03 1.04e-03 -7.07e-03
## 3265 -8.51e-03 -5.21e-04 -2.18e-03 5.94e-03 1.38e-02 -9.94e-04 1.03e-02
## 3266 -3.25e-03 -1.04e-03 9.44e-04 -1.13e-03 -1.93e-03 -2.64e-04 -1.34e-03
## 3267 1.41e-02 5.43e-03 -6.89e-03 9.51e-04 3.13e-03 2.52e-03 9.51e-04
## 3268 2.04e-03 2.07e-03 -1.82e-03 -7.77e-03 6.34e-03 2.87e-03 -1.02e-02
## 3269 1.30e-03 -2.98e-04 7.98e-04 2.81e-04 -1.62e-04 -3.90e-04 2.34e-04
## 3270 4.62e-03 1.78e-03 -1.86e-03 -2.94e-04 5.84e-05 9.19e-04 -3.30e-04
## 3271 7.20e-03 2.61e-03 -2.62e-03 2.77e-04 1.15e-03 1.18e-03 4.13e-04
## 3272 -4.52e-04 -2.40e-05 -4.31e-05 4.35e-04 8.45e-04 -6.03e-05 6.26e-04
## 3273 -1.05e-02 4.25e-04 -4.63e-03 2.76e-03 8.78e-03 6.43e-04 5.06e-03
## 3274 -8.53e-03 -1.60e-04 -2.85e-03 4.40e-03 1.09e-02 -3.47e-04 7.60e-03
## 3275 1.57e-03 -2.86e-04 8.28e-04 4.16e-05 -6.33e-04 -3.59e-04 -1.12e-04
## 3276 -4.54e-03 -8.57e-05 -1.51e-03 2.38e-03 6.33e-03 -2.58e-04 4.57e-03
## 3277 4.15e-02 2.28e-02 8.89e-02 -4.34e-03 4.32e-05 8.66e-03 -3.68e-03
## 3278 1.11e-02 4.33e-03 -4.64e-03 -1.48e-04 8.39e-04 2.20e-03 -3.86e-04
## 3279 5.00e-03 1.99e-03 -2.15e-03 -2.39e-04 1.32e-04 1.05e-03 -3.86e-04
## 3280 1.40e-03 5.41e-04 -5.74e-04 -5.44e-05 6.09e-05 2.78e-04 -7.47e-05
## 3281 4.02e-03 1.44e-03 -1.43e-03 4.07e-04 9.90e-04 6.05e-04 5.00e-04
## 3282 5.06e-03 1.91e-03 -2.35e-03 -1.02e-04 5.42e-04 9.26e-04 -1.92e-05
## 3283 9.06e-03 3.31e-03 -3.34e-03 6.95e-05 1.06e-03 1.55e-03 2.13e-04
## 3284 3.17e-03 1.18e-03 -1.20e-03 -7.65e-05 2.29e-04 5.72e-04 -4.36e-05
## 3285 2.06e-02 -1.94e-03 1.11e-02 -9.34e-04 -1.17e-02 -2.78e-03 -5.14e-03
## 3286 -2.44e-03 2.17e-04 -8.64e-04 9.08e-04 2.46e-03 2.02e-04 1.50e-03
## 3287 2.74e-03 1.77e-04 3.56e-03 2.62e-03 2.26e-02 -3.47e-04 2.29e-03
## 3288 -1.07e-03 -6.39e-06 2.24e-03 3.70e-05 3.41e-04 -3.28e-05 2.06e-04
## 3289 6.93e-03 -1.42e-03 3.94e-03 8.13e-04 -1.93e-03 -1.82e-03 2.77e-04
## 3290 -7.01e-03 -5.78e-06 -2.57e-03 3.04e-03 7.65e-03 -1.35e-05 4.98e-03
## 3291 -2.59e-03 3.53e-04 -1.14e-03 4.50e-04 1.84e-03 4.02e-04 9.02e-04
## 3292 6.43e-03 -1.17e-03 3.34e-03 4.26e-05 -3.01e-03 -1.42e-03 -8.58e-04
## 3293 -4.72e-03 9.70e-04 -2.70e-03 -5.97e-04 1.15e-03 1.26e-03 -3.45e-04
## 3294 -9.52e-04 8.31e-05 -3.31e-04 3.67e-04 9.90e-04 7.33e-05 6.13e-04
## 3295 -4.69e-02 -4.31e-04 1.00e-01 1.99e-03 1.59e-02 -1.77e-03 1.01e-02
## 3296 1.80e-03 -5.90e-05 4.79e-04 -1.03e-03 -2.23e-03 -2.12e-05 -1.46e-03
## 3297 -1.42e-04 2.76e-06 -3.65e-04 -1.27e-04 -1.73e-04 5.08e-05 -3.68e-03
## 3298 1.59e-04 3.92e-05 4.99e-04 5.88e-05 3.83e-05 -8.38e-06 5.87e-03
## 3299 -5.24e-04 -7.90e-05 -4.96e-05 5.59e-04 1.12e-03 -1.31e-04 8.75e-04
## 3300 4.75e-04 8.72e-06 7.00e-05 -4.00e-04 -8.29e-04 4.36e-05 -6.08e-04
## 3301 1.80e-05 1.30e-04 -4.77e-04 -4.77e-04 -7.28e-04 2.03e-04 -5.47e-03
## 3302 1.74e-04 -4.48e-06 1.93e-04 1.37e-04 1.01e-03 -4.02e-05 1.73e-04
## 3303 -1.75e-04 3.21e-05 -1.96e-04 -1.63e-04 -1.35e-03 7.05e-05 -2.41e-04
## 3304 -7.49e-03 8.66e-04 -3.06e-03 1.86e-03 5.96e-03 9.71e-04 3.15e-03
## 3305 1.12e-03 -4.92e-05 4.99e-04 -2.87e-04 -1.03e-03 -5.75e-05 -6.38e-04
## 3306 -8.36e-03 2.21e-04 -3.47e-03 2.74e-03 8.38e-03 2.38e-04 5.36e-03
## 3307 1.52e-02 -1.24e-03 7.85e-03 -1.44e-03 -8.93e-03 -1.88e-03 -3.91e-03
## 3308 2.18e-03 -1.76e-04 1.12e-03 -2.11e-04 -1.29e-03 -2.67e-04 -5.76e-04

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## 3309 1.29e-02 2.41e-03 3.35e-04 -1.59e-02 -3.41e-02 4.45e-03 -2.78e-02
## 3310 -1.84e-04 3.12e-05 -2.69e-04 -2.49e-04 -2.53e-03 6.97e-05 -2.67e-04
## 3311 -1.10e-02 2.98e-04 -4.61e-03 3.49e-03 9.79e-03 5.03e-04 5.76e-03
## 3312 1.84e-03 5.98e-05 2.41e-04 -1.62e-03 -3.25e-03 1.92e-04 -2.38e-03
## 3313 1.17e-03 5.17e-04 2.64e-04 -1.40e-03 3.12e-03 5.61e-04 -1.82e-03
## 3314 2.53e-05 -1.09e-05 7.64e-05 9.71e-05 8.44e-04 -1.94e-05 8.34e-05
## 3315 6.84e-05 -5.17e-06 3.48e-04 -8.74e-05 -5.46e-05 -2.77e-05 6.06e-03
## 3316 6.09e-03 1.20e-03 -9.49e-04 -9.36e-03 -1.63e-02 2.08e-03 -1.28e-02
## 3317 1.51e-03 -2.40e-04 7.24e-04 -1.32e-04 -9.07e-04 -2.82e-04 -3.78e-04
## 3318 5.32e-03 -3.97e-04 2.68e-03 -6.73e-04 -3.61e-03 -5.65e-04 -1.84e-03
## 3319 7.71e-04 1.81e-04 2.49e-04 -6.51e-04 3.50e-03 1.75e-04 -6.81e-04
## 3320 2.58e-03 2.61e-05 8.92e-04 -1.31e-03 -4.12e-03 2.09e-04 -3.16e-03
## 3321 -2.60e-02 -7.64e-03 -3.64e-02 4.48e-03 7.75e-03 -2.07e-03 5.17e-02
## 3322 -5.65e-05 5.42e-05 -2.15e-04 -3.27e-04 -1.90e-03 8.84e-05 -3.43e-04
## 3323 4.75e-03 4.30e-04 5.22e-03 2.92e-03 3.22e-02 -3.49e-04 2.63e-03
## 3324 -8.84e-04 -4.24e-04 -1.97e-03 7.58e-04 1.28e-03 -3.04e-04 -2.64e-02
## 3325 -4.53e-03 2.66e-04 -2.15e-03 8.57e-04 3.35e-03 3.94e-04 1.80e-03
## 3326 -8.79e-03 -3.98e-04 -2.51e-03 5.50e-03 1.28e-02 -7.33e-04 9.25e-03
## 3327 1.33e-03 1.07e-04 3.60e-05 -1.49e-03 -2.91e-03 2.58e-04 -2.23e-03
## 3328 4.86e-03 -6.62e-04 2.14e-03 -8.46e-04 -3.46e-03 -7.55e-04 -1.69e-03
## 3329 -3.03e-03 -6.09e-04 -1.99e-03 6.31e-04 -1.24e-02 -3.50e-04 7.95e-04
## 3330 4.85e-03 -5.15e-05 9.88e-04 -3.46e-03 -7.46e-03 2.13e-04 -5.30e-03
## 3331 -1.18e-04 2.94e-05 -1.44e-04 -1.40e-04 -9.31e-04 5.93e-05 -2.03e-04
## 3332 4.60e-03 -5.18e-04 1.83e-03 -1.25e-03 -3.95e-03 -5.48e-04 -2.21e-03
## 3333 -2.99e-03 1.52e-04 -1.38e-03 6.75e-04 2.51e-03 2.04e-04 1.47e-03
## 3334 -5.97e-03 -8.54e-05 -2.04e-03 2.96e-03 7.37e-03 -1.85e-04 5.05e-03
## 3335 2.30e-03 4.37e-03 -6.41e-03 1.23e-01 -2.74e-02 6.37e-03 -2.39e-02
## 3336 7.57e-04 -1.38e-04 3.89e-04 -3.05e-06 -3.81e-04 -1.63e-04 -1.26e-04
## 3337 -2.73e-03 4.98e-04 -1.42e-03 -1.20e-05 1.30e-03 6.00e-04 3.84e-04
## 3338 4.09e-04 -5.21e-05 5.23e-04 4.87e-04 2.57e-03 -1.57e-04 6.25e-04
## 3339 2.27e-03 5.48e-04 1.97e-03 1.30e-04 1.42e-02 3.42e-04 -4.94e-04
## 3340 5.59e-03 2.05e-03 -2.44e-03 -2.18e-04 4.86e-04 9.75e-04 -2.55e-05
## 3341 4.09e-04 -5.21e-05 5.23e-04 4.87e-04 2.57e-03 -1.57e-04 6.25e-04
## 3342 3.19e-05 2.31e-06 -5.99e-06 -5.53e-05 -1.23e-04 4.68e-06 -7.33e-05
## 3343 -1.23e-03 -1.23e-04 -2.28e-04 1.07e-03 2.48e-03 -2.45e-04 1.95e-03
## 3344 4.61e-03 1.47e-03 -1.61e-03 6.60e-04 1.63e-03 4.82e-04 1.09e-03
## 3345 7.44e-03 2.60e-03 -3.03e-03 2.42e-04 1.42e-03 1.11e-03 6.54e-04
## 3346 -1.20e-05 -1.54e-06 -1.38e-05 -7.61e-06 -9.06e-05 3.26e-07 -5.51e-06
## 3347 -3.99e-03 4.56e-04 -1.61e-03 1.04e-03 3.31e-03 4.95e-04 1.81e-03
## 3348 -5.16e-03 9.42e-04 -2.70e-03 -7.20e-05 2.30e-03 1.16e-03 5.71e-04
## 3349 3.57e-03 9.29e-05 4.52e-04 -3.17e-03 -6.57e-03 3.93e-04 -4.89e-03
## 3350 1.62e-04 1.74e-05 4.38e-04 -2.40e-04 -2.30e-04 -9.17e-06 7.80e-03
## 3351 8.65e-04 3.95e-04 1.98e-03 1.48e-04 4.06e-04 6.42e-05 2.94e-04
## 3352 9.27e-03 -9.65e-04 5.16e-03 1.54e-05 -3.93e-03 -1.50e-03 -9.98e-04
## 3353 4.40e-02 1.88e-02 1.08e-01 1.74e-02 3.48e-02 3.74e-04 2.68e-02
## 3354 -1.94e-02 -6.14e-03 7.07e-03 5.33e-03 2.20e-02 -3.76e-03 8.16e-03
## 3355 -4.42e-03 8.07e-04 -2.31e-03 -6.17e-05 1.97e-03 9.90e-04 4.89e-04
## 3356 -8.20e-03 5.15e-04 -3.94e-03 1.49e-03 6.87e-03 6.22e-04 4.10e-03
## 3357 3.23e-02 1.75e-02 6.87e-02 -3.21e-03 3.35e-04 6.55e-03 -2.45e-03
## 3358 1.91e-03 -8.22e-05 5.19e-04 -1.07e-03 -2.43e-03 -2.76e-05 -1.62e-03
## 3359 2.00e-02 1.03e-02 4.37e-02 -1.13e-03 2.76e-03 3.16e-03 8.67e-04
## 3360 4.03e-03 1.34e-03 -1.27e-03 9.67e-04 1.79e-03 4.41e-04 1.17e-03
## 3361 -2.17e-02 -9.10e-03 1.02e-02 2.69e-03 1.85e-03 -5.22e-03 3.91e-03
## 3362 5.94e-04 2.15e-04 1.19e-04 -7.32e-04 3.32e-03 2.50e-04 -9.08e-04

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## 3363 -2.43e-03 1.75e-04 -7.15e-04 1.22e-03 3.20e-03 7.02e-05 2.20e-03
## 3364 -1.69e-02 -6.89e-03 7.61e-03 9.58e-04 -1.58e-04 -3.73e-03 1.70e-03
## 3365 -3.78e-03 5.98e-04 -1.80e-03 3.46e-04 2.31e-03 6.97e-04 9.87e-04
## 3366 -8.90e-03 -3.71e-03 4.14e-03 1.08e-03 7.21e-04 -2.11e-03 1.55e-03
## 3367 1.96e-03 2.22e-04 -1.13e-04 -2.55e-03 -5.01e-03 5.25e-04 -3.97e-03
## 3368 5.94e-04 2.15e-04 1.19e-04 -7.32e-04 3.32e-03 2.50e-04 -9.08e-04
## 3369 6.80e-04 2.68e-04 1.16e-04 -9.03e-04 3.97e-03 3.19e-04 -1.15e-03
## 3370 1.04e-02 -3.52e-04 -2.33e-02 -3.87e-05 -2.52e-03 -6.56e-05 -1.23e-03
## 3371 -4.54e-03 -1.65e-04 -1.37e-03 2.70e-03 6.66e-03 -3.58e-04 4.85e-03
## 3372 3.12e-03 3.58e-03 -3.70e-03 -1.38e-02 4.40e-03 5.01e-03 -1.79e-02
## 3373 -5.80e-03 -1.86e-03 2.53e-03 1.80e-03 6.98e-03 -1.17e-03 2.67e-03
## 3374 -6.92e-04 5.38e-05 -3.52e-04 7.73e-05 4.40e-04 7.92e-05 2.11e-04
## 3375 -1.42e-03 -5.13e-04 6.21e-04 -1.20e-04 -3.63e-04 -2.17e-04 -1.70e-04
## 3376 -6.83e-03 1.53e-04 -2.79e-03 2.31e-03 6.41e-03 2.41e-04 3.90e-03
## 3377 5.49e-03 1.92e-03 -2.27e-03 5.08e-04 1.49e-03 7.73e-04 7.93e-04
## 3378 6.62e-03 2.40e-03 -2.40e-03 -1.17e-04 5.60e-04 1.14e-03 2.30e-05
## 3379 2.43e-03 8.33e-04 -7.93e-04 1.98e-04 5.52e-04 3.39e-04 3.09e-04
## 3380 3.65e-03 -3.19e-04 1.27e-03 -1.41e-03 -3.80e-03 -2.81e-04 -2.35e-03
## 3381 -2.12e-03 -1.73e-04 -4.66e-04 1.66e-03 3.67e-03 -3.09e-04 2.76e-03
## 3382 -1.27e-02 -4.38e-03 4.21e-03 -1.38e-03 -3.33e-03 -1.75e-03 -1.90e-03
## 3383 -1.11e-03 5.63e-05 -5.09e-04 2.50e-04 9.27e-04 7.53e-05 5.43e-04
## 3384 -1.19e-03 9.53e-05 -3.84e-04 5.20e-04 1.38e-03 6.55e-05 9.07e-04
## 3385 -1.31e-04 -2.29e-05 -7.96e-05 4.87e-05 -1.02e-03 -1.81e-05 6.45e-05
## 3386 -4.00e-03 -1.52e-04 -1.20e-03 2.38e-03 5.55e-03 -2.73e-04 3.93e-03
## 3387 2.30e-04 -2.04e-05 2.51e-04 1.67e-04 2.19e-03 -5.95e-05 2.13e-04
## 3388 -1.52e-04 -2.37e-04 4.85e-04 2.69e-02 1.32e-03 -3.25e-04 1.07e-03
## 3389 -4.09e-05 3.72e-06 -4.67e-05 -3.81e-05 -2.23e-04 1.31e-05 -5.18e-05
## 3390 -9.97e-04 -3.38e-04 -4.64e-04 6.91e-04 -3.72e-03 -3.18e-04 9.50e-04
## 3391 -2.03e-03 -2.26e-05 -7.03e-04 1.02e-03 2.93e-03 -1.19e-04 2.16e-03
## 3392 -9.95e-04 -3.90e-04 -6.18e-04 5.27e-04 -5.52e-03 -3.74e-04 1.00e-03
## 3393 -1.49e-03 2.72e-04 -7.82e-04 -3.13e-05 6.27e-04 3.37e-04 1.32e-04
## 3394 -2.71e-04 7.11e-05 4.07e-04 -3.69e-04 -5.27e-04 1.20e-04 1.18e-02
## 3395 -5.67e-04 -1.01e-05 6.12e-06 6.18e-05 -6.80e-05 -4.10e-05 4.49e-03
## 3396 -9.82e-04 3.19e-04 -1.38e-03 -1.53e-03 -8.89e-03 6.05e-04 -2.11e-03
## 3397 1.70e-03 1.30e-03 1.65e-04 -6.47e-03 -8.54e-03 1.67e-03 2.93e-02
## 3398 -2.34e-03 8.73e-04 8.95e-04 -3.67e-03 -5.60e-03 1.50e-03 5.93e-02
## 3399 -1.38e-05 1.77e-06 -5.57e-06 3.50e-06 1.28e-05 1.67e-06 7.63e-06
## 3400 -1.45e-03 1.96e-04 -6.33e-04 2.68e-04 1.07e-03 2.19e-04 5.45e-04
## 3401 5.42e-03 -7.27e-04 2.34e-03 -1.06e-03 -4.16e-03 -7.93e-04 -2.18e-03
## 3402 -7.03e-03 -1.74e-04 -2.27e-03 3.76e-03 8.80e-03 -2.84e-04 6.02e-03
## 3403 -1.01e-02 9.95e-04 -5.51e-03 2.43e-04 5.07e-03 1.48e-03 1.87e-03
## 3404 -2.26e-03 2.49e-04 -8.75e-04 6.72e-04 2.08e-03 2.47e-04 1.22e-03
## 3405 6.04e-04 1.46e-04 1.04e-04 3.11e-02 -1.15e-03 1.58e-04 -8.61e-04
## 3406 -2.17e-03 5.33e-04 -2.60e-03 -2.48e-03 -1.63e-02 1.08e-03 -3.68e-03
## 3407 -3.34e-03 8.80e-05 -1.39e-03 1.10e-03 3.35e-03 9.51e-05 2.14e-03
## 3408 4.35e-05 -3.45e-05 1.61e-05 9.99e-05 -9.50e-04 -5.36e-06 1.24e-05
## 3409 6.36e-04 2.97e-04 1.22e-04 -9.09e-04 5.05e-03 3.69e-04 -1.28e-03
## 3410 -1.83e-03 8.32e-05 -4.53e-04 1.12e-03 2.70e-03 -1.94e-05 1.92e-03
## 3411 -8.66e-03 1.78e-03 -4.95e-03 -1.06e-03 2.24e-03 2.29e-03 -5.13e-04
## 3412 2.66e-02 -3.28e-03 1.57e-02 2.19e-03 -8.05e-03 -5.09e-03 3.04e-06
## 3413 1.12e-03 -1.88e-05 2.48e-04 -7.58e-04 -1.64e-03 3.22e-05 -1.14e-03
## 3414 -4.86e-04 1.00e-04 -2.75e-04 -5.44e-05 1.45e-04 1.26e-04 -9.74e-06
## 3415 3.50e-03 4.83e-04 1.62e-03 -1.73e-03 1.58e-02 2.85e-04 -1.33e-03
## 3416 7.14e-03 -2.34e-04 1.90e-03 -4.10e-03 -8.85e-03 -8.43e-05 -5.80e-03

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## 3417 1.78e-02 1.24e-03 -4.26e-02 -4.86e-03 -1.26e-02 2.46e-03 -1.00e-02
## 3418 5.75e-03 4.61e-04 1.55e-04 -6.41e-03 -1.25e-02 1.11e-03 -9.63e-03
## 3419 3.19e-02 1.36e-02 7.70e-02 1.43e-02 2.55e-02 4.87e-04 1.97e-02
## 3420 -1.11e-03 -1.78e-04 -2.97e-03 -4.33e-04 -4.36e-04 1.41e-04 -3.34e-02
## 3421 1.74e-03 -3.17e-04 9.07e-04 2.42e-05 -7.72e-04 -3.88e-04 -1.92e-04
## 3422 -3.92e-02 1.84e-03 8.58e-02 -1.92e-03 6.28e-03 1.08e-03 1.68e-03
## 3423 -7.21e-03 1.67e-03 -4.29e-03 -1.31e-03 2.00e-03 2.03e-03 -2.14e-04
## 3424 -1.68e-03 9.23e-05 -5.17e-04 8.10e-04 1.85e-03 7.70e-05 1.16e-03
## 3425 1.82e-04 3.32e-06 3.04e-05 -1.45e-04 -2.90e-04 1.30e-05 -2.06e-04
## 3426 8.94e-04 4.75e-05 8.52e-05 -8.60e-04 -1.67e-03 1.19e-04 -1.24e-03
## 3427 -7.32e-04 1.00e-04 -3.26e-04 1.20e-04 5.02e-04 1.17e-04 2.37e-04
## 3428 1.81e-03 -3.71e-04 1.03e-03 2.22e-04 -4.68e-04 -4.79e-04 1.07e-04
## 3429 2.16e-03 -2.94e-04 9.49e-04 -3.85e-04 -1.56e-03 -3.32e-04 -7.77e-04
## 3430 -2.06e-03 3.66e-04 -2.74e-03 -2.76e-03 -1.29e-02 9.37e-04 -3.63e-03
## 3431 -2.99e-03 3.41e-04 -1.20e-03 7.80e-04 2.48e-03 3.71e-04 1.35e-03
## 3432 1.23e-02 -2.81e-03 7.53e-03 2.66e-03 -1.51e-03 -3.68e-03 2.23e-03
## 3433 1.84e-03 2.08e-04 -6.88e-05 -2.32e-03 -4.44e-03 4.57e-04 -3.47e-03
## 3434 -2.25e-03 -2.21e-04 -2.50e-03 -1.39e-03 -1.56e-02 1.44e-04 -1.20e-03
## 3435 1.98e-03 2.47e-04 -1.31e-04 -2.62e-03 -5.02e-03 5.40e-04 -3.96e-03
## 3436 -3.02e-03 2.19e-04 -3.65e-03 -3.05e-03 -1.88e-02 9.15e-04 -3.81e-03
## 3437 -1.15e-03 -1.40e-04 -9.60e-04 -1.94e-04 -5.56e-03 7.83e-06 -2.22e-04
## 3438 1.56e-03 1.24e-03 -7.15e-04 -4.46e-03 7.77e-03 1.67e-03 -5.92e-03
## 3439 3.55e-02 1.84e-02 7.40e-02 -2.86e-03 1.56e-03 6.45e-03 -1.08e-03
## 3440 1.59e-03 -1.33e-04 8.27e-04 -1.36e-04 -8.94e-04 -2.05e-04 -3.70e-04
## 3441 2.57e-03 -2.58e-04 1.41e-03 -4.47e-05 -1.24e-03 -3.88e-04 -4.25e-04
## 3442 1.44e-04 -4.55e-05 1.95e-04 2.13e-04 1.22e-03 -8.69e-05 3.01e-04
## 3443 4.53e-03 -7.11e-04 2.11e-03 -5.10e-04 -3.05e-03 -7.94e-04 -1.45e-03
## 3444 -8.23e-04 -1.79e-04 -6.13e-04 8.19e-05 -4.09e-03 -1.07e-04 2.01e-04
## 3445 5.59e-03 6.64e-04 8.63e-04 -5.13e-03 -9.73e-03 9.58e-04 -7.17e-03
## 3446 1.60e-03 1.15e-03 -6.75e-04 -4.29e-03 6.19e-03 1.54e-03 -5.51e-03
## 3447 2.12e-05 1.60e-06 1.36e-05 -3.17e-06 1.27e-04 -2.67e-07 -3.82e-07
## 3448 -4.21e-03 -4.07e-04 -7.86e-04 3.76e-03 1.03e-02 -1.08e-03 8.50e-03
## 3449 3.20e-02 -3.89e-03 1.88e-02 2.31e-03 -1.08e-02 -5.93e-03 -1.11e-03
## 3450 -2.65e-03 -2.10e-04 -2.46e-03 -9.83e-04 -1.39e-02 1.93e-04 -1.16e-03
## 3451 7.21e-04 2.11e-04 4.07e-04 -4.59e-04 7.17e-03 2.29e-04 -7.62e-04
## 3452 -5.30e-06 1.74e-04 1.38e-05 -2.89e-04 4.43e-03 2.66e-04 -8.01e-04
## 3453 -1.01e-02 -1.25e-04 -3.48e-03 4.90e-03 1.22e-02 -2.72e-04 8.34e-03
## 3454 1.69e-01 -5.59e-04 -3.32e-01 -2.02e-03 -4.35e-02 1.65e-03 -2.11e-02
## 3455 -3.69e-02 -1.55e-03 9.01e-02 5.31e-03 2.02e-02 -3.78e-03 1.59e-02
## 3456 2.40e-02 -4.94e-03 1.35e-02 2.55e-03 -7.69e-03 -6.17e-03 -1.24e-05
## 3457 2.64e-03 -4.20e-04 1.27e-03 -2.00e-04 -1.49e-03 -5.04e-04 -5.75e-04
## 3458 1.59e-04 4.06e-05 5.82e-05 -1.32e-04 9.14e-04 4.13e-05 -1.53e-04
## 3459 3.34e-03 9.79e-05 -1.56e-02 9.48e-04 1.53e-03 2.39e-04 1.78e-02
## 3460 6.47e-04 4.95e-05 1.47e-04 -5.01e-04 -1.22e-03 1.07e-04 -9.50e-04
## 3461 3.91e-04 1.01e-04 1.76e-04 -2.83e-04 2.82e-03 1.04e-04 -3.70e-04
## 3462 -4.97e-04 -1.38e-04 7.18e-05 8.29e-04 1.90e-03 -2.85e-04 1.64e-03
## 3463 -4.05e-03 7.38e-04 -2.09e-03 3.79e-06 2.00e-03 8.80e-04 6.36e-04
## 3464 -1.98e-03 2.28e-04 -8.05e-04 4.99e-04 1.60e-03 2.53e-04 8.53e-04
## 3465 4.35e-03 5.01e-04 -2.73e-04 -3.26e-03 -4.71e-03 6.99e-05 -2.01e-03
## 3466 1.92e-03 -8.46e-05 1.70e-03 7.32e-04 1.38e-02 -3.70e-04 1.22e-03
## 3467 9.90e-04 2.25e-04 3.26e-04 -8.15e-04 4.44e-03 2.14e-04 -8.40e-04
## 3468 -3.29e-02 -3.74e-03 1.01e-01 -1.69e-03 -5.13e-02 -4.33e-03 -3.86e-04
## 3469 2.83e-04 3.04e-05 7.67e-04 -4.19e-04 -4.02e-04 -1.60e-05 1.36e-02
## 3470 -2.86e-03 -7.44e-04 -1.85e-03 8.81e-04 -1.30e-02 -5.62e-04 1.41e-03

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## 3471  2.86e-04 -1.10e-04 -7.62e-05  1.44e-04  3.82e-04 -1.68e-04 -3.88e-03
## 3472  2.06e-04 -5.65e-05  3.05e-04  3.22e-04  2.38e-03 -1.11e-04  4.01e-04
## 3473 -2.27e-04  1.90e-05 -7.60e-05  9.41e-05  2.52e-04  1.48e-05  1.61e-04
## 3474  4.97e-04 -5.63e-05  1.65e-04 -2.04e-04 -6.70e-04 -2.71e-05 -4.74e-04
## 3475  7.78e-03 -1.41e-03  3.89e-03 -2.63e-04 -4.66e-03 -1.57e-03 -2.02e-03
## 3476 -5.03e-03 -1.20e-04 -1.61e-03  2.89e-03  8.91e-03 -5.76e-04  7.00e-03
## 3477  2.92e-03 -4.50e-04  1.31e-03 -4.51e-04 -2.32e-03 -4.58e-04 -1.27e-03
## 3478  3.83e-05  1.85e-05 -1.38e-05 -4.66e-05  1.15e-04  9.11e-06 -4.96e-06
## 3479 -1.21e-03 -1.85e-04 -1.19e-03 -4.20e-04 -7.71e-03 -2.61e-05 -2.57e-04
## 3480 -2.59e-04  1.06e-04 -4.11e-04 -5.02e-04 -2.60e-03  1.93e-04 -6.77e-04
## 3481 -3.70e-03 -2.69e-04 -8.71e-04  2.74e-03  6.08e-03 -4.73e-04  4.51e-03
## 3482 -6.13e-03 -5.05e-05 -2.17e-03  2.87e-03  7.18e-03 -1.10e-04  4.82e-03
## 3483  1.20e-04  4.97e-05 -2.33e-05 -7.41e-05  6.13e-04  3.83e-06  1.04e-04
## 3484 -8.75e-03 -3.16e-05 -3.16e-03  3.91e-03  9.81e-03 -6.95e-05  6.46e-03
## 3485 -8.75e-03 -3.16e-05 -3.16e-03  3.91e-03  9.81e-03 -6.95e-05  6.46e-03
## 3486 -2.13e-03  2.21e-04 -7.72e-04  7.47e-04  2.25e-03  1.84e-04  1.42e-03
## 3487 -4.92e-04  1.13e-04 -3.01e-04 -1.05e-04  6.73e-05  1.47e-04 -8.25e-05
## 3488  7.64e-03  2.85e-03 -2.93e-03  1.28e-05  8.05e-04  1.37e-03  5.25e-05
## 3489  2.04e-04  3.55e-05  1.23e-04 -7.56e-05  1.59e-03  2.81e-05 -1.00e-04
## 3490 -3.96e-03  6.16e-04 -1.81e-03  5.25e-04  2.90e-03  6.59e-04  1.49e-03
## 3491 -3.11e-03  5.69e-04 -1.64e-03 -6.55e-05  1.31e-03  7.07e-04  2.76e-04
## 3492 -7.12e-03 -2.22e-04 -2.22e-03  4.01e-03  9.37e-03 -3.84e-04  6.53e-03
## 3493  5.42e-02  2.60e-02  1.09e-01 -6.42e-03  3.07e-03  8.03e-03  4.80e-04
## 3494 -3.55e-04  2.88e-05 -4.19e-04 -3.46e-04 -2.09e-03  1.11e-04 -4.49e-04
## 3495 -2.72e-03 -6.23e-04 -1.78e-03  6.94e-04 -1.17e-02 -4.17e-04  1.01e-03
## 3496 -1.63e-04  1.22e-05 -8.21e-05  2.07e-05  1.11e-04  1.74e-05  5.65e-05
## 3497  1.80e-02 -1.29e-03  8.98e-03 -2.34e-03 -1.05e-02 -2.13e-03 -4.40e-03
## 3498  3.38e-03  4.37e-04 -1.11e-04 -4.24e-03 -7.62e-03  8.07e-04 -5.83e-03
## 3499  1.14e-03 -1.34e-04  4.74e-04 -2.65e-04 -8.63e-04 -1.55e-04 -4.38e-04
## 3500 -4.16e-02  1.41e-03  9.30e-02  1.54e-04  1.01e-02  2.62e-04  4.91e-03
## 3501 -8.65e-05  4.41e-06 -7.59e-05 -3.32e-05 -5.98e-04  1.76e-05 -5.75e-05
## 3502  1.10e-02 -1.29e-03  4.58e-03 -2.50e-03 -8.19e-03 -1.51e-03 -4.10e-03
## 3503  1.31e-03  5.95e-05  1.51e-04 -1.20e-03 -2.34e-03  1.52e-04 -1.71e-03
## 3504  1.08e-03  2.79e-04  1.05e-04  4.48e-02 -2.12e-03  3.05e-04 -1.57e-03
## 3505 -7.82e-04 -1.93e-04 -2.46e-03 -2.90e-04 -1.89e-04  4.13e-05 -2.89e-02
## 3506 -1.94e-03 -2.82e-04 -1.63e-03 -2.84e-04 -9.92e-03 -4.66e-05 -2.18e-04
## 3507 -1.45e-03 -4.24e-04 -1.08e-03  2.91e-04 -8.22e-03 -3.34e-04  7.54e-04
## 3508  9.71e-04  1.10e-04 -5.61e-05 -1.26e-03 -2.49e-03  2.60e-04 -1.97e-03
## 3509 -3.81e-03  7.06e-05 -9.42e-04  2.36e-03  4.86e-03 -1.22e-05  3.21e-03
## 3510 -3.31e-03 -2.03e-04 -3.03e-03 -1.25e-03 -1.64e-02  3.18e-04 -1.64e-03
## 3511 -2.04e-04 -4.20e-05 -1.34e-04  4.42e-05 -8.39e-04 -2.50e-05  5.76e-05
## 3512 -3.31e-03 -2.03e-04 -3.03e-03 -1.25e-03 -1.64e-02  3.18e-04 -1.64e-03
## 3513  2.33e-03  3.43e-04 -2.43e-04 -3.29e-03 -6.18e-03  7.09e-04 -4.89e-03
## 3514 -2.24e-04  1.36e-05 -6.62e-05  1.13e-04  2.75e-04  7.41e-06  1.82e-04
## 3515 -3.75e-03  6.84e-04 -1.95e-03 -2.49e-05  1.76e-03  8.27e-04  5.00e-04
## 3516  3.36e-06 -6.75e-06  8.68e-05  6.65e-05  8.35e-05 -1.74e-05  9.06e-04
## 3517  1.73e-02 -9.19e-04  8.04e-03 -3.74e-03 -1.41e-02 -1.27e-03 -8.06e-03
## 3518  2.11e-02 -2.08e-03  1.15e-02 -5.08e-04 -1.06e-02 -3.10e-03 -3.91e-03
## 3519  1.45e-02  7.72e-04 -3.55e-02 -2.79e-03 -8.90e-03  1.71e-03 -7.08e-03
## 3520  7.10e-04  3.73e-05  7.47e-04  4.22e-04  4.28e-03 -8.54e-05  4.63e-04
## 3521 -3.90e-05  6.97e-06 -1.84e-05  3.63e-06  3.08e-05  6.83e-06  1.73e-05
## 3522  1.44e-03  1.27e-04 -2.35e-05 -1.74e-03 -3.50e-03  3.36e-04 -2.76e-03
## 3523 -6.87e-04 -2.04e-04 -4.39e-04  2.54e-04 -3.31e-03 -1.70e-04  4.37e-04
## 3524 -4.64e-03 -1.13e-03  1.07e-03 -1.91e-04  3.16e-03 -3.73e-04  6.94e-05

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## 3525  1.03e-02  4.14e-03 -4.49e-03 -8.12e-04 -1.63e-04  2.24e-03 -1.14e-03
## 3526 -2.01e-02 -8.25e-03  9.10e-03  2.33e-03  1.42e-03 -4.64e-03  3.22e-03
## 3527  1.35e-03  4.40e-04 -4.05e-04  3.28e-04  6.09e-04  1.37e-04  4.11e-04
## 3528 -1.20e-02 -3.73e-03  4.27e-03  2.73e-03  1.30e-02 -2.18e-03  4.45e-03
## 3529  3.70e-02  2.03e-02  7.92e-02 -3.90e-03 -2.24e-05  7.74e-03 -3.36e-03
## 3530  9.83e-03  3.10e-03 -3.30e-03  5.83e-04  2.37e-03  1.11e-03  1.60e-03
## 3531  2.41e-02  1.05e-02  5.38e-02  4.33e-03  1.17e-02  1.41e-03  8.89e-03
## 3532 -1.36e-02 -2.72e-03  2.52e-03  1.99e-04  8.34e-03 -5.76e-04 -4.40e-04
## 3533  3.08e-03  3.54e-03 -3.66e-03 -1.37e-02  4.35e-03  4.96e-03 -1.77e-02
## 3534 -3.87e-03 -6.01e-04 -3.22e-04  4.29e-03  9.48e-03 -1.15e-03  7.68e-03
## 3535 -8.17e-03 -2.17e-04  2.29e-02 -3.13e-03 -1.64e-02  2.24e-05 -3.82e-03
## 3536  2.58e-03 -1.92e-04  1.30e-03 -3.26e-04 -1.75e-03 -2.74e-04 -8.92e-04
## 3537 -5.04e-03  8.08e-04 -2.46e-03  3.41e-04  2.73e-03  9.83e-04  9.81e-04
## 3538 -3.04e-02  9.03e-04  7.03e-02  4.71e-04  8.31e-03 -1.31e-04  4.67e-03
## 3539 -1.44e-05  1.74e-06 -8.46e-06 -9.64e-07  5.15e-06  2.63e-06  7.62e-07
## 3540  3.07e-03  3.64e-05  1.07e-03 -1.49e-03 -3.71e-03  7.90e-05 -2.52e-03
## 3541 -5.94e-04  2.92e-04 -2.01e-03 -1.68e-03 -2.40e-03  6.35e-04 -1.66e-02
## 3542  9.38e-05  4.74e-04 -2.83e-04 -1.17e-03  1.71e-03  6.55e-04 -2.03e-03
## 3543 -1.95e-04  1.70e-04 -9.10e-04 -9.21e-04 -1.30e-03  3.31e-04 -7.22e-03
## 3544  7.78e-04  4.09e-05  4.23e-05 -8.14e-04 -1.69e-03  1.35e-04 -1.31e-03
## 3545 -8.52e-04 -4.15e-05 -8.91e-04 -5.05e-04 -5.07e-03  1.06e-04 -5.63e-04
## 3546  4.94e-03 -1.02e-03  2.81e-03  5.80e-04 -1.38e-03 -1.30e-03  1.97e-04
## 3547 -3.87e-03  7.04e-04 -1.98e-03  3.39e-05  2.01e-03  8.27e-04  7.02e-04
## 3548  5.55e-03 -6.86e-04  3.29e-03  4.58e-04 -1.68e-03 -1.06e-03  6.35e-07
## 3549 -2.12e-03  2.83e-04 -9.05e-04  4.37e-04  1.70e-03  3.01e-04  9.14e-04
## 3550 -1.10e-03 -5.33e-05 -3.07e-04  7.15e-04  1.75e-03 -1.15e-04  1.31e-03
## 3551 -2.42e-02 -4.94e-03  6.26e-02  2.40e-02  4.03e-02 -8.42e-03  3.34e-02
## 3552 -4.81e-03  3.75e-04 -2.45e-03  5.30e-04  3.04e-03  5.55e-04  1.44e-03
## 3553  2.21e-03 -2.27e-04  1.23e-03 -1.00e-05 -9.79e-04 -3.50e-04 -2.79e-04
## 3554  1.72e-03 -6.04e-05  7.40e-04 -5.14e-04 -1.78e-03 -5.08e-05 -1.17e-03
## 3555  1.61e-03  1.49e-05  5.60e-04 -8.15e-04 -2.56e-03  1.27e-04 -1.96e-03
## 3556 -1.07e-04 -4.63e-06 -1.12e-04 -6.33e-05 -6.28e-04  1.41e-05 -7.25e-05
## 3557 -5.17e-04 -3.44e-04 -8.13e-04  9.31e-04  1.43e-03 -3.38e-04 -1.30e-02
## 3558 -8.36e-03 -3.91e-04 -2.37e-03  5.23e-03  1.16e-02 -6.22e-04  8.19e-03
## 3559  6.18e-04 -4.25e-05  5.32e-04  2.44e-04  3.84e-03 -1.42e-04  4.57e-04
## 3560 -3.13e-03  6.43e-04 -1.78e-03 -3.67e-04  8.72e-04  8.21e-04 -1.25e-04
## 3561  1.50e-03  4.79e-04  1.34e-03 -2.12e-05  1.08e-02  3.80e-04 -7.25e-04
## 3562 -2.15e-03  5.66e-05 -8.92e-04  7.05e-04  2.15e-03  6.12e-05  1.38e-03
## 3563 -6.74e-03  5.03e-04 -3.39e-03  8.54e-04  4.57e-03  7.17e-04  2.33e-03
## 3564 -2.84e-03 -2.62e-04 -5.70e-04  2.33e-03  4.97e-03 -4.41e-04  3.73e-03
## 3565 -3.07e-02 -3.12e-03  7.74e-02  1.72e-02  3.26e-02 -6.17e-03  2.62e-02
## 3566  4.59e-03 -3.45e-04  1.40e-03 -2.19e-03 -5.78e-03 -1.79e-04 -3.91e-03
## 3567  1.72e-02 -3.54e-03  9.87e-03  2.18e-03 -4.21e-03 -4.60e-03  1.27e-03
## 3568 -2.12e-03  2.83e-04 -9.05e-04  4.37e-04  1.70e-03  3.01e-04  9.14e-04
## 3569 -1.11e-03  7.67e-06 -2.99e-03 -1.03e-03 -1.36e-03  3.91e-04 -3.06e-02
## 3570 -1.92e-02 -3.48e-03  9.28e-02  2.37e-03 -3.74e-02 -5.85e-03  7.77e-03
## 3571  1.95e-04  1.21e-04  4.32e-05 -3.24e-04  2.36e-03  1.58e-04 -5.28e-04
## 3572 -6.33e-03 -5.75e-04 -1.28e-03  5.20e-03  1.15e-02 -1.04e-03  8.78e-03
## 3573  2.45e-03  4.43e-04  7.94e-05 -3.09e-03 -7.80e-03  1.03e-03 -6.65e-03
## 3574  5.60e-04  2.51e-04  1.16e-04 -7.71e-04  4.34e-03  3.09e-04 -1.08e-03
## 3575  4.74e-04  1.39e-04  3.53e-04 -9.53e-05  2.69e-03  1.09e-04 -2.47e-04
## 3576  1.57e-02 -1.85e-03  9.12e-03  8.71e-04 -6.20e-03 -2.74e-03 -1.42e-03
## 3577  6.72e-04  2.13e-03 -2.36e-03 -7.43e-03  7.72e-03  3.14e-03 -1.08e-02
## 3578  8.08e-03 -7.82e-04  4.39e-03 -2.73e-04 -4.31e-03 -1.14e-03 -1.74e-03

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## 3579 -1.65e-03 -5.68e-05 -1.69e-03 -9.64e-04 -9.34e-03 2.35e-04 -1.15e-03
## 3580 -6.89e-04 -2.73e-05 -5.24e-04 -4.85e-05 -4.92e-03 4.56e-05 -1.36e-04
## 3581 -1.67e-04 7.40e-05 -1.68e-03 -1.05e-03 -1.30e-03 2.70e-04 -1.80e-02
## 3582 8.59e-04 -5.76e-05 4.20e-04 -1.40e-04 -6.71e-04 -7.44e-05 -3.83e-04
## 3583 1.68e-03 6.11e-04 3.37e-04 -2.08e-03 9.41e-03 7.11e-04 -2.58e-03
## 3584 2.08e-03 7.02e-04 -6.63e-04 2.98e-04 6.49e-04 2.63e-04 4.01e-04
## 3585 -7.17e-04 -4.52e-04 -4.12e-04 6.67e-04 -5.28e-03 -5.02e-04 1.38e-03
## 3586 1.63e-02 4.59e-03 -5.84e-03 -3.19e-03 -1.63e-02 2.40e-03 -4.67e-03
## 3587 -6.02e-03 -1.63e-04 -1.92e-03 3.28e-03 7.68e-03 -2.73e-04 5.29e-03
## 3588 -4.38e-04 3.78e-05 -2.29e-04 3.72e-05 3.03e-04 4.91e-05 1.62e-04
## 3589 1.65e-03 5.97e-04 8.76e-04 -1.03e-03 7.43e-03 5.66e-04 -1.61e-03
## 3590 -5.14e-03 3.04e-04 -2.44e-03 9.64e-04 3.78e-03 4.52e-04 2.02e-03
## 3591 -1.69e-03 6.56e-05 -2.26e-03 -1.95e-03 -1.28e-02 4.54e-04 -2.11e-03
## 3592 -1.52e-02 -4.29e-03 5.45e-03 2.98e-03 1.52e-02 -2.24e-03 4.36e-03
## 3593 -1.64e-03 1.71e-04 -9.13e-04 -2.72e-06 6.94e-04 2.65e-04 1.76e-04
## 3594 -1.66e-05 -1.35e-06 -9.32e-06 4.38e-06 -8.00e-05 6.93e-08 1.30e-06
## 3595 7.66e-04 7.54e-05 8.50e-04 4.74e-04 5.32e-03 -4.89e-05 4.09e-04
## 3596 -1.94e-02 -4.59e-03 1.02e-01 3.48e-03 7.29e-03 -7.04e-03 -9.48e-02
## 3597 3.07e-02 6.18e-03 -1.27e-01 -1.99e-03 5.25e-02 8.86e-03 -1.07e-02
## 3598 1.16e-03 -8.24e-05 5.77e-04 -1.67e-04 -8.46e-04 -1.12e-04 -4.58e-04
## 3599 3.22e-03 -1.88e-04 1.52e-03 -6.53e-04 -2.89e-03 -2.07e-04 -1.79e-03
## 3600 8.51e-03 -8.54e-04 4.66e-03 -3.05e-04 -6.04e-03 -1.01e-03 -3.40e-03
## 3601 -1.80e-02 -2.76e-03 6.38e-02 2.16e-05 -2.93e-02 -3.64e-03 2.71e-03
## 3602 2.07e-04 1.05e-05 2.02e-04 6.82e-05 2.27e-03 -9.87e-06 4.83e-05
## 3603 -5.28e-03 -4.71e-04 -1.09e-03 4.24e-03 8.71e-03 -7.35e-04 6.40e-03
## 3604 -3.89e-04 -1.71e-04 -1.95e-04 3.01e-04 -1.94e-03 -1.75e-04 5.01e-04
## 3605 3.42e-04 -1.33e-05 4.57e-04 3.94e-04 2.60e-03 -9.19e-05 4.28e-04
## 3606 7.93e-04 -8.35e-05 2.92e-04 -2.67e-04 -8.09e-04 -7.33e-05 -5.02e-04
## 3607 -3.91e-03 -2.64e-04 -9.61e-04 2.78e-03 5.92e-03 -4.14e-04 4.27e-03
## 3608 -5.46e-05 1.71e-06 -7.45e-05 -6.48e-05 -4.32e-04 1.43e-05 -6.83e-05
## 3609 -1.42e-03 2.47e-05 -5.68e-04 5.11e-04 1.41e-03 3.45e-05 8.84e-04
## 3610 2.20e-03 -1.21e-04 1.03e-03 -4.53e-04 -1.73e-03 -1.72e-04 -9.67e-04
## 3611 -1.12e-03 8.89e-05 -3.59e-04 5.01e-04 1.33e-03 5.82e-05 8.77e-04
## 3612 -1.74e-04 4.97e-04 1.24e-05 -5.09e-04 5.33e-03 6.84e-04 -1.81e-03
## 3613 1.45e-02 5.88e-03 3.66e-02 7.47e-03 1.40e-02 -4.39e-04 1.10e-02
## 3614 2.47e-03 9.23e-04 -1.13e-03 -4.10e-05 2.81e-04 4.41e-04 1.46e-05
## 3615 7.14e-03 2.57e-03 -3.08e-03 3.87e-04 1.54e-03 1.11e-03 6.62e-04
## 3616 -8.72e-03 -1.44e-03 5.33e-02 1.99e-03 2.76e-03 -2.58e-01 3.81e-03
## 3617 1.97e-03 6.93e-04 -8.18e-04 1.19e-04 4.47e-04 2.91e-04 2.17e-04
## 3618 2.59e-03 9.42e-04 -9.61e-04 3.29e-04 7.16e-04 3.99e-04 3.56e-04
## 3619 5.66e-03 2.02e-03 -1.99e-03 2.43e-04 9.54e-04 8.95e-04 3.96e-04
## 3620 -1.71e-03 2.71e-04 -8.18e-04 1.45e-04 1.01e-03 3.20e-04 4.13e-04
## 3621 3.64e-04 6.50e-05 2.71e-04 -1.69e-05 1.67e-03 2.82e-05 -3.62e-05
## 3622 1.54e-03 1.81e-03 -5.15e-04 -8.62e-03 -1.17e-02 2.46e-03 3.26e-02
## 3623 1.54e-03 1.81e-03 -5.15e-04 -8.62e-03 -1.17e-02 2.46e-03 3.26e-02
## 3624 -1.07e-03 7.36e-06 -2.87e-03 -9.85e-04 -1.31e-03 3.75e-04 -2.94e-02
## 3625 -6.21e-05 -7.95e-05 1.71e-04 1.18e-02 4.29e-04 -1.06e-04 3.37e-04
## 3626 -1.57e-04 1.22e-05 -7.99e-05 1.73e-05 9.90e-05 1.81e-05 4.71e-05
## 3627 1.79e-02 -3.27e-03 9.43e-03 3.77e-04 -7.56e-03 -4.07e-03 -1.59e-03
## 3628 1.03e-03 -4.25e-06 1.91e-04 -7.78e-04 -1.68e-03 6.23e-05 -1.21e-03
## 3629 -4.36e-03 7.98e-04 -2.30e-03 -9.18e-05 1.84e-03 9.91e-04 3.87e-04
## 3630 -8.28e-04 9.09e-05 -3.20e-04 2.46e-04 7.62e-04 9.02e-05 4.45e-04
## 3631 1.95e-03 1.71e-04 7.89e-05 -2.12e-03 -3.94e-03 3.47e-04 -2.96e-03
## 3632 -6.01e-03 -6.13e-04 -1.10e-03 5.15e-03 1.06e-02 -9.87e-04 7.95e-03

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## 3633 -2.24e-05 -1.49e-06 -1.74e-06 2.24e-05 4.25e-05 -3.29e-06 3.15e-05
## 3634 1.29e-03 -3.28e-04 -1.49e-03 -4.99e-04 2.11e-04 -4.25e-04 -2.83e-02
## 3635 -3.87e-03 3.54e-04 -4.41e-03 -3.59e-03 -2.10e-02 1.25e-03 -4.90e-03
## 3636 9.71e-05 -6.89e-06 4.82e-05 -1.40e-05 -7.07e-05 -9.40e-06 -3.83e-05
## 3637 -3.20e-03 5.06e-04 -1.52e-03 3.09e-04 2.00e-03 5.84e-04 8.80e-04
## 3638 2.21e-03 -2.15e-04 1.20e-03 -6.85e-05 -1.16e-03 -3.16e-04 -4.56e-04
## 3639 -6.86e-03 -2.76e-04 -2.02e-03 4.20e-03 1.03e-02 -5.98e-04 7.59e-03
## 3640 -8.76e-03 -6.15e-04 -2.12e-03 6.29e-03 1.29e-02 -8.89e-04 9.17e-03
## 3641 2.09e-03 -8.66e-05 5.57e-04 -1.19e-03 -2.71e-03 -2.10e-05 -1.82e-03
## 3642 9.52e-04 2.15e-04 5.60e-04 -4.62e-04 8.31e-03 2.06e-04 -7.01e-04
## 3643 2.55e-03 -4.64e-04 2.98e-03 2.53e-03 2.19e-02 -1.02e-03 3.54e-03
## 3644 -7.01e-04 2.69e-05 -1.81e-04 4.14e-04 9.42e-04 1.29e-06 6.42e-04
## 3645 2.02e-03 1.88e-04 2.38e-05 -2.32e-03 -4.42e-03 4.13e-04 -3.39e-03
## 3646 2.64e-03 3.90e-04 -2.77e-04 -3.73e-03 -7.02e-03 8.06e-04 -5.56e-03
## 3647 1.69e-03 1.16e-03 -1.49e-03 -5.70e-03 -1.12e-02 2.10e-03 -9.91e-03
## 3648 1.86e-03 3.41e-05 2.74e-04 -1.56e-03 -3.24e-03 1.71e-04 -2.38e-03
## 3649 -2.88e-03 -9.42e-05 -8.88e-04 1.67e-03 4.12e-03 -2.04e-04 2.97e-03
## 3650 3.24e-03 1.31e-03 1.54e-04 -4.88e-03 1.32e-02 1.57e-03 -5.80e-03
## 3651 -7.58e-03 -6.25e-06 -2.78e-03 3.29e-03 8.28e-03 -1.47e-05 5.39e-03
## 3652 -6.79e-04 -8.35e-04 -1.45e-04 1.57e-03 -6.72e-03 -1.04e-03 3.04e-03
## 3653 2.17e-04 3.91e-05 9.28e-05 -1.33e-04 1.08e-03 3.15e-05 -1.28e-04
## 3654 7.74e-04 3.32e-04 1.06e-04 -1.11e-03 4.74e-03 4.04e-04 -1.44e-03
## 3655 -4.16e-03 -2.54e-04 -1.07e-03 2.90e-03 6.74e-03 -4.86e-04 5.01e-03
## 3656 -3.03e-02 8.92e-04 7.03e-02 4.93e-04 8.35e-03 -1.53e-04 4.73e-03
## 3657 8.46e-03 -4.12e-04 3.86e-03 -1.99e-03 -7.32e-03 -5.31e-04 -4.37e-03
## 3658 3.60e-03 5.12e-04 3.94e-04 -3.72e-03 -7.70e-03 8.77e-04 -6.02e-03
## 3659 5.46e-04 4.88e-05 5.11e-04 2.01e-04 2.94e-03 -3.27e-05 2.22e-04
## 3660 3.80e-04 4.87e-05 4.35e-04 2.41e-04 2.87e-03 -1.03e-05 1.74e-04
## 3661 -1.63e-03 1.36e-04 -5.47e-04 6.77e-04 1.81e-03 1.07e-04 1.16e-03
## 3662 4.27e-03 3.23e-03 -2.78e-03 -1.30e-02 4.04e-03 4.34e-03 -1.58e-02
## 3663 3.85e-04 9.35e-05 1.77e-04 -2.63e-04 2.70e-03 9.29e-05 -3.34e-04
## 3664 4.88e-03 -4.91e-04 5.13e-03 3.40e-03 4.19e-02 -1.35e-03 4.71e-03
## 3665 1.18e-03 3.55e-04 5.01e-04 -9.86e-04 9.21e-03 3.89e-04 -1.36e-03
## 3666 -3.53e-03 5.55e-04 -1.66e-03 3.70e-04 2.29e-03 6.30e-04 1.05e-03
## 3667 -9.00e-03 -7.29e-04 -1.99e-03 6.94e-03 1.48e-02 -1.20e-03 1.09e-02
## 3668 -1.01e-02 -5.73e-04 -2.67e-03 6.76e-03 1.50e-02 -9.59e-04 1.08e-02
## 3669 -3.79e-03 1.37e-04 -1.64e-03 1.08e-03 3.37e-03 1.94e-04 2.02e-03
## 3670 -1.49e-03 8.32e-05 -4.18e-04 7.98e-04 1.94e-03 2.91e-05 1.32e-03
## 3671 -2.20e-03 2.35e-04 -8.24e-04 7.10e-04 2.17e-03 2.16e-04 1.32e-03
## 3672 -2.61e-03 8.53e-04 -6.54e-03 -4.77e-03 -7.03e-03 2.00e-03 -5.27e-02
## 3673 4.57e-04 9.77e-05 1.82e-04 -3.24e-04 2.43e-03 8.99e-05 -3.47e-04
## 3674 -5.69e-04 1.92e-05 -2.44e-04 1.68e-04 5.22e-04 2.60e-05 3.18e-04
## 3675 -5.60e-03 -2.13e-04 -1.67e-03 3.32e-03 7.76e-03 -3.82e-04 5.50e-03
## 3676 5.49e-05 2.49e-05 -2.57e-05 -1.34e-04 -3.07e-04 5.16e-05 -2.73e-04
## 3677 -1.90e-03 1.83e-04 -6.32e-04 7.81e-04 2.30e-03 1.15e-04 1.55e-03
## 3678 -3.72e-04 1.61e-04 -6.25e-04 -7.83e-04 -4.12e-03 2.90e-04 -1.03e-03
## 3679 4.83e-04 -1.69e-04 -2.13e-03 -8.96e-04 -6.26e-04 -7.64e-05 -3.00e-02
## 3680 -8.91e-03 3.51e-03 -4.87e-03 -8.71e-03 -1.66e-02 6.01e-03 3.64e-02
## 3681 -1.05e-04 1.43e-05 -4.63e-05 1.83e-05 7.48e-05 1.63e-05 3.66e-05
## 3682 3.33e-03 -5.24e-04 1.57e-03 -3.43e-04 -2.15e-03 -5.97e-04 -9.75e-04
## 3683 3.22e-04 -5.89e-05 1.70e-04 8.11e-06 -1.32e-04 -7.37e-05 -2.44e-05
## 3684 -4.23e-03 4.23e-04 -1.47e-03 1.61e-03 4.78e-03 3.12e-04 3.12e-03
## 3685 -3.49e-03 6.40e-04 -1.86e-03 -1.25e-04 1.31e-03 8.17e-04 1.48e-04
## 3686 -6.94e-04 -2.85e-04 3.16e-04 6.10e-05 2.31e-05 -1.58e-04 9.30e-05

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## 3687  2.91e-03  7.32e-05  4.36e-04 -2.44e-03 -4.88e-03  2.55e-04 -3.52e-03
## 3688 -8.15e-03 -3.25e-03  3.52e-03  3.94e-04 -2.09e-04 -1.72e-03  6.40e-04
## 3689  3.10e-03  1.10e-03 -1.31e-03  2.75e-04  8.18e-04  4.54e-04  4.11e-04
## 3690 -1.65e-02 -5.59e-03  6.46e-03 -1.63e-03 -4.69e-03 -2.15e-03 -2.72e-03
## 3691  2.06e-02  5.56e-03 -7.09e-03 -2.00e-03 -1.84e-02  2.54e-03 -3.78e-03
## 3692  2.59e-03  7.30e-04 -9.38e-04 -4.55e-04 -2.56e-03  3.77e-04 -7.04e-04
## 3693 -7.93e-02 -2.43e-02  2.57e-02 -1.20e-02 -2.93e-02 -7.29e-03 -2.08e-02
## 3694 -6.09e-04  9.72e-06 -1.46e-04  3.87e-04  7.97e-04 -5.74e-06  5.31e-04
## 3695 -2.61e-03  4.05e-04 -1.19e-03  3.46e-04  1.91e-03  4.34e-04  9.80e-04
## 3696  6.06e-04 -4.66e-06  5.57e-04  2.18e-04  5.23e-03 -8.29e-05  2.91e-04
## 3697 -6.10e-03  1.11e-03 -3.19e-03 -8.50e-05  2.71e-03  1.36e-03  6.75e-04
## 3698 -5.33e-06  7.82e-06 -4.26e-05 -2.33e-05 -3.99e-05  1.34e-05 -5.51e-04
## 3699  9.48e-04 -1.53e-04  4.69e-04 -4.89e-05 -4.69e-04 -1.92e-04 -1.42e-04
## 3700  9.35e-03 -8.94e-04  3.52e-03 -3.01e-03 -8.28e-03 -9.67e-04 -4.66e-03
## 3701 -5.42e-04  2.24e-04 -8.00e-04 -9.79e-04 -4.41e-03  4.07e-04 -1.40e-03
## 3702 -1.25e-03  8.91e-04 -3.87e-03 -4.21e-03 -6.19e-03  1.67e-03 -2.63e-02
## 3703 -4.31e-03  8.12e-06 -1.60e-03  1.82e-03  4.59e-03  1.69e-05  2.95e-03
## 3704  1.63e-03 -1.76e-04  9.20e-04  2.96e-05 -6.09e-04 -2.80e-04 -9.46e-05
## 3705 -6.27e-04  5.50e-05 -2.19e-04  2.39e-04  6.45e-04  4.93e-05  3.98e-04
## 3706 -2.08e-04  6.29e-06 -5.38e-05  1.22e-04  2.64e-04  1.16e-06  1.75e-04
## 3707 -9.81e-03  6.95e-05 -3.74e-03  3.91e-03  9.90e-03  1.49e-04  6.20e-03
## 3708  7.22e-03  2.78e-03  3.77e-03 -4.83e-03  3.36e-02  2.71e-03 -7.73e-03
## 3709  1.27e-03 -5.53e-05  3.48e-04 -7.09e-04 -1.62e-03 -1.96e-05 -1.08e-03
## 3710  5.86e-04  3.66e-04 -2.91e-05 -1.19e-03  4.52e-03  4.80e-04 -1.67e-03
## 3711 -2.94e-03  6.81e-04 -5.87e-03 -3.69e-03 -5.66e-03  1.73e-03 -4.62e-02
## 3712  6.03e-03  2.27e-03 -2.38e-03  5.29e-04  1.31e-03  1.03e-03  4.93e-04
## 3713  6.79e-03  2.73e-03 -3.49e-03 -2.76e-04  4.67e-04  1.42e-03 -3.97e-04
## 3714  1.22e-03  4.82e-04 -6.08e-04 -7.95e-05  4.73e-05  2.51e-04 -8.78e-05
## 3715  1.72e-02  6.42e-03 -7.93e-03  7.51e-04  3.35e-03  2.94e-03  1.07e-03
## 3716  2.51e-02  6.76e-03 -8.38e-03 -4.00e-03 -2.35e-02  3.28e-03 -5.81e-03
## 3717  1.46e-02  5.45e-03 -6.64e-03 -2.34e-04  1.68e-03  2.60e-03  1.09e-04
## 3718  1.40e-02  5.53e-03 -7.00e-03 -4.81e-04  1.13e-03  2.82e-03 -5.82e-04
## 3719 -1.84e-02 -3.47e-03  1.54e-03 -5.44e-03 -1.13e-02  7.19e-04 -1.05e-02
## 3720 -8.11e-03 -3.52e-04 -2.36e-03  4.91e-03  1.04e-02 -4.65e-04  7.10e-03
## 3721  4.29e-03 -7.81e-04  2.22e-03 -4.01e-06 -2.12e-03 -9.32e-04 -6.74e-04
## 3722  3.45e-02  1.95e-04 -7.21e-02 -1.17e-03 -1.09e-02  1.03e-03 -6.56e-03
## 3723 -8.39e-03  1.03e-03 -4.95e-03 -6.40e-04  2.72e-03  1.58e-03  1.72e-04
## 3724  1.23e-03  7.30e-04 -6.71e-04 -1.92e-03  3.60e-03  4.54e-04 -6.23e-04
## 3725 -2.98e-04  1.52e-05 -1.37e-04  6.73e-05  2.50e-04  2.03e-05  1.46e-04
## 3726 -8.81e-04  2.72e-06 -3.28e-04  3.84e-04  1.12e-03 -2.26e-05  7.94e-04
## 3727 -2.69e-03  2.13e-04 -8.59e-04  1.20e-03  3.20e-03  1.38e-04  2.11e-03
## 3728  6.94e-04 -5.67e-05  3.58e-04 -6.45e-05 -4.04e-04 -8.65e-05 -1.76e-04
## 3729  6.48e-03 -6.12e-04  3.49e-03 -2.94e-04 -3.69e-03 -8.73e-04 -1.62e-03
## 3730 -7.84e-03 -4.12e-05 -2.81e-03  3.63e-03  9.75e-03 -2.07e-04  6.76e-03
## 3731 -3.64e-02  9.77e-04  8.61e-02  8.61e-04  1.08e-02 -4.26e-04  6.49e-03
## 3732  1.59e-03 -4.04e-04  2.04e-03  2.02e-03  1.39e-02 -8.10e-04  2.81e-03
## 3733 -2.16e-03  3.35e-04 -9.86e-04  2.86e-04  1.58e-03  3.59e-04  8.10e-04
## 3734 -3.21e-03  4.37e-04 -1.41e-03  5.58e-04  2.29e-03  4.99e-04  1.12e-03
## 3735  2.27e-03  4.10e-04  7.95e-05 -2.83e-03 -6.79e-03  8.87e-04 -5.71e-03
## 3736  4.84e-04  6.25e-05  2.56e-04 -1.88e-04  2.64e-03  3.32e-05 -1.51e-04
## 3737 -7.51e-03 -1.41e-04 -2.51e-03  3.87e-03  9.62e-03 -3.06e-04  6.69e-03
## 3738 -7.23e-04 -7.35e-06 -2.53e-04  3.39e-04  7.98e-04 -6.99e-06  5.17e-04
## 3739  7.50e-04  2.96e-04  1.28e-04 -9.96e-04  4.38e-03  3.52e-04 -1.27e-03
## 3740  7.08e-04  1.44e-04  3.43e-03  1.01e-03  1.04e-03 -1.89e-04  3.99e-02

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## 3741 7.46e-04 2.68e-04 1.09e-04 -9.66e-04 3.43e-03 3.10e-04 -1.14e-03
## 3742 1.17e-03 1.38e-05 4.03e-04 -5.75e-04 -1.53e-03 4.80e-05 -1.09e-03
## 3743 -9.31e-04 -2.13e-04 -9.60e-04 -2.99e-04 -6.99e-03 -1.10e-04 1.76e-05
## 3744 -3.19e-03 5.12e-05 -1.26e-03 1.20e-03 3.59e-03 1.43e-05 2.41e-03
## 3745 -3.07e-03 -1.48e-04 -8.55e-04 1.99e-03 4.88e-03 -3.21e-04 3.64e-03
## 3746 6.13e-05 -7.25e-06 6.10e-05 4.02e-05 4.44e-04 -1.87e-05 6.28e-05
## 3747 -4.32e-04 6.92e-05 -2.10e-04 3.07e-05 2.39e-04 8.37e-05 8.82e-05
## 3748 -3.61e-04 -9.11e-05 -3.78e-04 -1.13e-04 -2.84e-03 -5.38e-05 3.36e-05
## 3749 9.93e-04 -3.61e-04 2.34e-03 2.84e-03 2.37e-02 -6.63e-04 2.70e-03
## 3750 -1.87e-03 -6.41e-04 -1.40e-03 5.01e-04 -1.15e-02 -5.56e-04 1.31e-03
## 3751 -8.10e-03 -4.25e-05 -2.90e-03 3.75e-03 1.01e-02 -2.14e-04 6.98e-03
## 3752 6.00e-03 3.15e-05 2.15e-03 -2.78e-03 -7.45e-03 1.58e-04 -5.17e-03
## 3753 -1.10e-03 1.24e-04 -1.10e-04 1.19e-03 3.41e-03 1.27e-04 1.68e-03
## 3754 7.37e-04 4.92e-05 7.88e-04 4.44e-04 4.65e-03 -7.56e-05 4.53e-04
## 3755 5.17e-03 -1.73e-04 2.22e-03 -1.48e-03 -4.21e-03 -3.11e-04 -2.34e-03
## 3756 -3.58e-03 3.58e-04 -1.25e-03 1.36e-03 4.05e-03 2.65e-04 2.64e-03
## 3757 2.48e-03 -1.10e-04 6.85e-04 -1.37e-03 -3.12e-03 -4.47e-05 -2.07e-03
## 3758 1.13e-03 5.59e-05 8.59e-04 6.08e-05 8.34e-03 -5.74e-05 1.70e-04
## 3759 -6.39e-03 2.15e-04 -2.74e-03 1.88e-03 5.86e-03 2.90e-04 3.57e-03
## 3760 -3.35e-03 -2.73e-04 -7.35e-04 2.61e-03 5.79e-03 -4.88e-04 4.36e-03
## 3761 -4.27e-02 -2.27e-03 1.10e-01 1.49e-02 3.34e-02 -5.82e-03 2.65e-02
## 3762 -5.73e-04 -1.55e-05 -1.12e-03 -2.39e-04 -3.56e-04 1.37e-04 -1.11e-02
## 3763 1.51e-02 -1.56e-03 8.38e-03 -1.20e-05 -6.50e-03 -2.42e-03 -1.74e-03
## 3764 -1.07e-03 3.89e-04 -1.50e-03 -1.73e-03 -8.63e-03 7.22e-04 -2.49e-03
## 3765 9.13e-03 -4.65e-04 4.20e-03 -2.06e-03 -7.64e-03 -6.22e-04 -4.48e-03
## 3766 5.11e-03 1.47e-03 4.52e-03 7.92e-05 3.48e-02 1.08e-03 -1.91e-03
## 3767 6.16e-05 1.20e-05 5.28e-05 6.26e-06 3.51e-04 5.44e-06 -3.35e-06
## 3768 4.01e-04 4.00e-04 -1.62e-04 -1.26e-03 4.31e-03 5.55e-04 -1.89e-03
## 3769 5.36e-03 -3.25e-04 1.59e-03 -2.70e-03 -6.58e-03 -1.77e-04 -4.36e-03
## 3770 -1.69e-03 -4.86e-04 -1.50e-03 -2.62e-05 -1.15e-02 -3.57e-04 6.31e-04
## 3771 8.47e-04 -2.32e-05 3.54e-04 -2.74e-04 -8.40e-04 -2.62e-05 -5.33e-04
## 3772 7.46e-04 4.28e-04 -6.02e-05 -1.47e-03 4.46e-03 5.53e-04 -1.96e-03
## 3773 -7.48e-03 -1.40e-04 -2.50e-03 3.86e-03 9.59e-03 -3.05e-04 6.67e-03
## 3774 5.34e-03 1.11e-03 -8.52e-04 5.58e-04 -4.21e-03 4.74e-04 -9.24e-04
## 3775 -4.04e-03 4.18e-04 -1.46e-03 1.41e-03 4.26e-03 3.49e-04 2.69e-03
## 3776 1.81e-03 -3.71e-04 1.03e-03 2.22e-04 -4.68e-04 -4.79e-04 1.07e-04
## 3777 -2.75e-03 3.77e-04 -1.22e-03 4.51e-04 1.88e-03 4.39e-04 8.88e-04
## 3778 9.16e-03 -1.68e-03 4.84e-03 2.24e-04 -3.77e-03 -2.09e-03 -7.13e-04
## 3779 -2.11e-03 -8.78e-05 -2.35e-04 9.73e-04 1.28e-03 1.90e-04 1.17e-04
## 3780 2.15e-03 -4.44e-04 1.21e-03 2.16e-04 -7.38e-04 -5.48e-04 -4.69e-05
## 3781 2.20e-03 1.75e-04 2.05e-03 8.18e-04 1.16e-02 -1.60e-04 9.66e-04
## 3782 5.95e-04 2.49e-04 -5.67e-04 -2.09e-03 -4.16e-03 4.30e-04 -2.88e-03
## 3783 1.52e-03 4.48e-03 1.86e-04 -7.34e-03 3.82e-02 5.87e-03 -1.66e-02
## 3784 -6.29e-03 -7.60e-04 2.98e-02 6.76e-04 6.68e-04 -1.30e-03 -2.98e-02
## 3785 -2.27e-03 3.91e-04 -3.37e-03 -3.56e-03 -1.73e-02 1.05e-03 -4.28e-03
## 3786 2.06e-03 2.03e-04 2.28e-03 1.27e-03 1.43e-02 -1.31e-04 1.10e-03
## 3787 3.05e-03 2.42e-04 2.83e-03 1.13e-03 1.60e-02 -2.22e-04 1.34e-03
## 3788 7.45e-03 1.75e-03 -4.66e-04 -1.09e-02 -2.40e-02 3.42e-03 -2.02e-02
## 3789 4.29e-04 -1.23e-04 6.85e-04 7.45e-04 5.67e-03 -2.39e-04 8.79e-04
## 3790 -3.40e-03 -3.79e-04 -5.64e-04 3.08e-03 6.57e-03 -6.59e-04 5.05e-03
## 3791 2.24e-02 -1.88e-03 1.17e-02 -1.85e-03 -1.24e-02 -2.92e-03 -5.03e-03
## 3792 1.68e-03 3.15e-05 5.60e-04 -8.65e-04 -2.15e-03 6.83e-05 -1.49e-03
## 3793 -2.19e-04 -7.51e-06 -2.29e-05 2.05e-04 4.27e-04 -2.85e-05 3.22e-04
## 3794 -4.99e-04 -2.06e-04 -4.60e-04 5.04e-05 -4.14e-03 -1.88e-04 4.02e-04

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## 3795  1.10e-04  3.76e-05  8.24e-05 -2.95e-05  6.78e-04  3.27e-05 -7.72e-05
## 3796 -8.82e-03  2.77e-04 -3.74e-03  2.69e-03  8.33e-03  3.53e-04  5.16e-03
## 3797 -3.26e-03 -6.15e-04 -2.43e-03  1.94e-04 -1.53e-02 -2.95e-04  4.41e-04
## 3798 -7.55e-04  1.36e-04 -9.17e-04 -7.93e-04 -7.11e-03  2.99e-04 -1.06e-03
## 3799 -2.50e-03 -4.32e-04 -2.13e-03 -3.04e-04 -1.36e-02 -1.49e-04 -4.96e-05
## 3800  1.19e-02  4.54e-04  3.57e-03 -7.08e-03 -1.65e-02  8.14e-04 -1.17e-02
## 3801 -4.84e-04 -5.51e-04 -3.00e-05  1.17e-03 -3.76e-03 -6.93e-04  2.08e-03
## 3802  1.75e-02 -2.17e-03  1.04e-02  1.45e-03 -5.32e-03 -3.37e-03  2.01e-06
## 3803  4.68e-03 -7.17e-04  2.07e-03 -7.76e-04 -3.88e-03 -7.11e-04 -2.19e-03
## 3804 -1.09e-03 -4.92e-05 -3.10e-04  6.81e-04  1.59e-03 -9.07e-05  1.14e-03
## 3805  1.35e-03  1.11e-04  5.25e-05 -1.47e-03 -2.81e-03  2.45e-04 -2.12e-03
## 3806  2.70e-03 -4.94e-04  1.44e-03  1.02e-04 -9.92e-04 -6.33e-04 -9.80e-05
## 3807  4.31e-04 -2.63e-05  2.06e-04 -7.70e-05 -3.07e-04 -3.99e-05 -1.59e-04
## 3808 -8.59e-03 -1.11e-04 -2.97e-03  4.14e-03  9.72e-03 -1.33e-04  6.37e-03
## 3809  2.38e-03 -4.27e-04  1.16e-03 -1.37e-04 -1.61e-03 -4.54e-04 -7.93e-04
## 3810  3.36e-02  1.51e-02  7.60e-02  5.88e-03  1.60e-02  2.27e-03  1.18e-02
## 3811  1.06e-02  3.94e-03 -4.83e-03  1.41e-04  1.63e-03  1.84e-03  3.63e-04
## 3812  2.06e-02  7.34e-03 -8.73e-03  1.18e-03  4.56e-03  3.13e-03  2.09e-03
## 3813  2.05e-02  7.58e-03 -9.22e-03  3.31e-04  3.27e-03  3.50e-03  8.65e-04
## 3814 -5.91e-03  3.99e-05 -2.24e-03  2.41e-03  6.56e-03  2.53e-06  4.34e-03
## 3815  2.32e-02  1.06e-02  5.11e-02  4.22e-03  9.85e-03  2.03e-03  7.15e-03
## 3816  2.78e-02  7.32e-03 -9.33e-03 -4.22e-03 -7.41e-03  3.71e-03 -4.42e-02
## 3817 -7.00e-03 -3.29e-05 -2.51e-03  3.23e-03  8.66e-03 -1.76e-04  5.99e-03
## 3818 -4.40e-02 -6.15e-03  1.14e-01  2.43e-02  4.98e-02 -1.09e-02  4.18e-02
## 3819  2.55e-02  1.45e-02  5.31e-02 -5.39e-03 -3.92e-03  6.25e-03 -5.73e-03
## 3820  2.00e-02  7.76e-03 -9.73e-03 -5.91e-04  1.79e-03  3.89e-03 -5.77e-04
## 3821  3.80e-02  1.90e-02  9.29e-02  7.87e-03  1.94e-02  3.63e-03  1.28e-02
## 3822 -2.34e-02 -2.01e-03  7.62e-02 -5.43e-03 -4.46e-02 -2.26e-03 -4.45e-03
## 3823 -1.67e-04  6.91e-04  3.16e-04 -3.23e-03 -4.50e-03  1.01e-03  2.75e-02
## 3824 -6.60e-03 -2.35e-04 -1.99e-03  3.96e-03  1.04e-02 -6.21e-04  7.80e-03
## 3825  3.57e-02  1.88e-02  8.09e-02 -6.43e-04  6.74e-03  5.69e-03  2.52e-03
## 3826  3.59e-02  1.76e-02  7.81e-02  2.57e-03  9.43e-03  4.77e-03  5.66e-03
## 3827 -2.52e-05  1.07e-05 -1.13e-04 -1.24e-05 -3.99e-05  2.24e-05 -1.68e-03
## 3828  1.16e-02  4.31e-03 -5.26e-03  1.75e-04  1.83e-03  2.00e-03  4.54e-04
## 3829 -1.60e-03 -6.45e-04  8.29e-04  6.81e-05 -1.04e-04 -3.37e-04  1.02e-04
## 3830  5.00e-03 -7.87e-04  2.35e-03 -5.34e-04 -3.28e-03 -8.90e-04 -1.52e-03
## 3831  9.78e-06 -1.24e-05  3.41e-05  1.88e-03  6.29e-05 -1.90e-05  5.64e-05
## 3832 -8.66e-04  8.02e-05 -3.77e-03 -1.82e-03 -2.28e-03  5.38e-04 -3.97e-02
## 3833 -7.77e-03 -5.79e-04 -1.80e-03  5.88e-03  1.36e-02 -1.12e-03  1.04e-02
## 3834 -1.23e-03  8.75e-05 -6.12e-04  1.78e-04  8.99e-04  1.19e-04  4.87e-04
## 3835  1.12e-03 -1.95e-04  1.52e-03  1.37e-03  1.34e-02 -4.35e-04  1.61e-03
## 3836 -2.25e-04 -1.54e-04  2.09e-04 -7.97e-03  6.69e-05 -3.18e-05 -1.98e-04
## 3837 -3.26e-03  2.54e-04 -1.66e-03  3.59e-04  2.06e-03  3.76e-04  9.79e-04
## 3838  1.73e-03  2.51e-04  1.45e-03  2.53e-04  8.84e-03  4.15e-05  1.95e-04
## 3839 -5.78e-04  1.56e-05 -2.41e-04  1.83e-04  5.13e-04  2.64e-05  3.02e-04
## 3840  1.11e-03 -1.10e-04  6.10e-04 -2.69e-05 -5.61e-04 -1.64e-04 -2.07e-04
## 3841  9.94e-05 -4.54e-05 -1.89e-04 -1.52e-05  7.19e-05 -5.30e-05 -3.39e-03
## 3842 -3.56e-03  1.12e-04 -1.51e-03  1.09e-03  3.36e-03  1.43e-04  2.08e-03
## 3843 -4.79e-03 -2.16e-03 -1.09e-02 -8.33e-04 -2.27e-03 -3.33e-04 -1.67e-03
## 3844 -1.17e-02 -4.92e-03 -2.45e-02 -1.11e-03 -4.31e-03 -7.64e-04 -3.43e-03
## 3845 -1.42e-02 -5.78e-05  2.94e-02  4.26e-04  4.35e-03 -3.74e-04  2.54e-03
## 3846 -3.31e-03 -1.58e-04 -9.26e-04  2.17e-03  5.67e-03 -4.01e-04  4.34e-03
## 3847 -4.93e-02  1.46e-03  1.14e-01  7.63e-04  1.35e-02 -2.13e-04  7.57e-03
## 3848  6.13e-03  1.89e-03 -2.11e-03 -1.72e-03 -6.79e-03  1.13e-03 -2.49e-03

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## 3849 -1.16e-02 -5.10e-03 -2.54e-02 -1.51e-03 -4.80e-03 -8.27e-04 -3.62e-03
## 3850  1.34e-03  1.10e-03 -1.15e-03  7.25e-02 -7.27e-03  1.53e-03 -6.14e-03
## 3851 -5.67e-03  4.99e-04 -2.99e-03  4.36e-04  3.78e-03  6.62e-04  1.96e-03
## 3852 -3.64e-02 -2.02e-02 -8.27e-02  3.17e-03 -3.15e-03 -7.00e-03  1.09e-03
## 3853  1.58e-03  5.70e-04 -5.69e-04  6.33e-05  2.58e-04  2.56e-04  9.76e-05
## 3854 -7.32e-03 -2.39e-04 -2.26e-03  4.23e-03  1.05e-02 -5.18e-04  7.54e-03
## 3855 -2.81e-02 -1.32e-02 -6.00e-02 -2.32e-03 -7.96e-03 -3.29e-03 -5.32e-03
## 3856 -1.14e-02 -2.56e-03  2.22e-03 -9.12e-04  6.79e-03 -6.54e-04 -6.19e-04
## 3857  2.95e-03  2.57e-03 -2.25e-03 -9.99e-03  5.23e-03  3.50e-03 -1.26e-02
## 3858 -4.50e-03 -1.84e-03  2.03e-03  3.86e-04  1.32e-04 -1.01e-03  5.78e-04
## 3859 -7.08e-03 -2.96e-03  3.84e-03  8.18e-04  2.77e-04 -1.66e-03  1.08e-03
## 3860 -3.51e-02  1.15e-03  7.92e-02  2.33e-04  8.77e-03  1.28e-04  4.46e-03
## 3861  1.49e-02  8.10e-03  3.18e-02 -1.51e-03  1.00e-04  3.05e-03 -1.21e-03
## 3862  7.82e-03  3.00e-03 -3.15e-03 -5.27e-05  6.94e-04  1.49e-03 -1.29e-04
## 3863 -1.37e-03  7.38e-05 -6.36e-04  3.08e-04  1.31e-03  7.19e-05  8.47e-04
## 3864  7.52e-02 -1.08e-03 -1.46e-01  2.50e-03 -1.44e-02 -5.28e-04 -4.93e-03
## 3865  1.05e-03  3.88e-04 -4.76e-04  4.84e-05  2.09e-04  1.75e-04  7.27e-05
## 3866 -6.71e-03 -2.55e-03  2.66e-03  2.20e-04 -3.71e-04 -1.28e-03  2.49e-04
## 3867 -2.99e-02 -1.19e-02  1.50e-02  2.01e-03 -1.04e-03 -6.23e-03  2.32e-03
## 3868 -1.44e-02 -5.44e-03  5.65e-03  4.49e-04 -8.40e-04 -2.72e-03  4.72e-04
## 3869 -1.18e-02 -4.85e-03  5.37e-03  1.03e-03  3.89e-04 -2.68e-03  1.58e-03
## 3870  1.29e-02  4.18e-03 -4.81e-03  3.52e-03  6.79e-03  1.19e-03  4.56e-03
## 3871  8.23e-03  2.82e-03 -3.29e-03  7.95e-04  2.30e-03  1.11e-03  1.29e-03
## 3872  2.03e-02  7.89e-03  4.89e-02  9.22e-03  1.79e-02 -5.81e-04  1.43e-02
## 3873 -3.32e-01 -1.82e-01 -7.28e-01  1.98e-02 -2.09e-02 -6.66e-02  1.42e-02
## 3874 -6.21e-02 -3.39e-02 -1.47e-01 -1.32e-03 -1.50e-02 -1.02e-02 -5.86e-03
## 3875 -1.78e-02 -1.01e-02 -3.69e-02  3.69e-03  2.62e-03 -4.29e-03  3.85e-03
## 3876 -1.22e-01 -4.97e-02 -2.85e-01 -4.19e-02 -8.81e-02 -6.88e-04 -6.99e-02
## 3877  1.93e-02  9.34e-03  4.08e-02  5.81e-04  3.99e-03  2.64e-03  2.32e-03
## 3878  1.01e-02  3.70e-03 -4.41e-03 -3.86e-04  8.97e-04  1.76e-03 -2.37e-05
## 3879  1.97e-02  7.22e-03 -8.73e-03  3.68e-04  3.24e-03  3.29e-03  9.68e-04
## 3880 -3.95e-03  4.67e-04 -2.30e-03 -2.20e-04  1.56e-03  6.91e-04  3.58e-04
## 3881  3.10e-03 -5.64e-04  1.60e-03 -2.90e-06 -1.53e-03 -6.73e-04 -4.86e-04
## 3882  5.20e-03  2.11e-03 -2.32e-03 -4.38e-04 -1.38e-04  1.16e-03 -6.48e-04
## 3883  5.47e-03  1.91e-03 -2.25e-03  5.07e-04  1.49e-03  7.68e-04  7.93e-04
## 3884 -1.18e-01 -7.17e-02 -2.67e-01  2.70e-02  1.46e-02 -3.03e-02  2.75e-02
## 3885  2.08e-03  1.46e-04  1.07e-04 -2.20e-03 -4.30e-03  3.58e-04 -3.26e-03
## 3886  1.17e-03  5.03e-04  1.60e-04 -1.68e-03  7.18e-03  6.13e-04 -2.18e-03
## 3887 -3.49e-03  1.72e-04 -1.01e-03  1.81e-03  4.14e-03  1.07e-04  2.68e-03
## 3888 -9.98e-04 -8.22e-05 -2.13e-04  8.27e-04  2.27e-03 -2.24e-04  1.86e-03
## 3889  1.14e-02 -1.83e-03  5.57e-03 -7.67e-04 -6.18e-03 -2.23e-03 -2.21e-03
## 3890  2.83e-03  2.10e-03 -1.58e-03 -8.19e-03  6.02e-03  2.82e-03 -1.02e-02
## 3891 -3.50e-04  5.44e-05 -1.60e-04  4.64e-05  2.56e-04  5.82e-05  1.31e-04
## 3892  5.55e-04  2.08e-04  2.09e-04 -5.70e-04  4.88e-03  2.45e-04 -8.41e-04
## 3893 -2.02e-02  8.34e-04  4.66e-02 -6.70e-04  4.16e-03  2.48e-04  1.91e-03
## 3894 -7.32e-03 -2.39e-04 -2.26e-03  4.23e-03  1.05e-02 -5.18e-04  7.54e-03
## 3895  1.92e-03  1.96e-04 -1.95e-05 -2.30e-03 -4.40e-03  4.30e-04 -3.40e-03
## 3896  2.68e-04 -3.02e-05  1.07e-04 -7.31e-05 -2.30e-04 -3.19e-05 -1.29e-04
## 3897 -7.42e-04  1.12e-04 -3.15e-04  1.50e-04  6.94e-04  1.01e-04  4.23e-04
## 3898  1.65e-02  4.27e-03 -5.19e-03 -1.72e-03 -1.42e-02  1.85e-03 -2.69e-03
## 3899 -3.53e-03  5.01e-04 -9.91e-04 -1.15e-03 -2.66e-03  1.17e-03  2.04e-02
## 3900  1.23e-03  1.76e-04  9.48e-04 -1.24e-04  1.20e-02  1.12e-04 -3.41e-04
## 3901  4.88e-03  7.32e-04 -3.36e-04 -6.54e-03 -1.16e-02  1.31e-03 -8.94e-03
## 3902 -1.46e-02 -2.35e-04  3.06e-02  1.14e-03  5.53e-03 -6.57e-04  3.57e-03

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## 3903 1.90e-04 1.91e-04 -1.06e-04 3.73e-02 -1.38e-03 2.83e-04 -1.24e-03
## 3904 -8.16e-03 -1.53e-04 -2.72e-03 4.21e-03 1.05e-02 -3.32e-04 7.27e-03
## 3905 7.09e-03 1.55e-03 -1.51e-03 -1.18e-02 -2.09e-02 2.79e-03 -1.67e-02
## 3906 4.72e-03 -4.85e-04 2.62e-03 -2.13e-05 -2.09e-03 -7.47e-04 -5.96e-04
## 3907 1.42e-03 -2.94e-04 7.74e-04 9.42e-05 -6.67e-04 -3.38e-04 -2.05e-04
## 3908 3.79e-04 2.66e-04 -5.82e-07 -7.96e-04 3.94e-03 3.56e-04 -1.21e-03
## 3909 -5.74e-04 4.68e-05 -1.88e-04 2.46e-04 6.57e-04 3.38e-05 4.26e-04
## 3910 -3.42e-03 6.27e-04 -1.82e-03 -1.14e-04 1.31e-03 7.96e-04 1.73e-04
## 3911 -2.11e-04 8.88e-08 -1.60e-04 -2.88e-05 -1.29e-03 2.68e-05 -8.03e-05
## 3912 -2.02e-02 4.35e-04 4.58e-02 1.09e-03 6.40e-03 -2.55e-04 3.75e-03
## 3913 -1.86e-03 -5.75e-04 -6.15e-04 1.59e-03 -4.32e-03 -5.42e-04 1.79e-03
## 3914 7.23e-04 1.63e-04 4.25e-04 -3.51e-04 6.31e-03 1.56e-04 -5.32e-04
## 3915 -7.65e-04 4.05e-06 -2.89e-04 3.11e-04 7.86e-04 8.64e-06 4.97e-04
## 3916 7.27e-03 -1.32e-03 3.72e-03 -6.36e-05 -3.77e-03 -1.55e-03 -1.32e-03
## 3917 3.02e-03 1.92e-03 1.34e-03 -9.99e-03 -1.30e-02 2.38e-03 6.09e-02
## 3918 1.17e-03 4.75e-04 5.56e-05 -1.76e-03 4.78e-03 5.69e-04 -2.10e-03
## 3919 1.15e-03 4.23e-04 3.14e-04 -1.32e-03 7.95e-03 4.94e-04 -1.75e-03
## 3920 9.99e-04 7.53e-05 6.40e-04 -1.49e-04 5.99e-03 -1.25e-05 -1.80e-05
## 3921 7.94e-03 4.77e-04 2.05e-03 -5.50e-03 -1.28e-02 9.09e-04 -9.48e-03
## 3922 1.96e-04 2.18e-05 3.24e-05 -1.77e-04 -3.77e-04 3.79e-05 -2.90e-04
## 3923 -4.34e-03 2.21e-04 -2.00e-03 9.79e-04 3.63e-03 2.95e-04 2.13e-03
## 3924 -6.15e-04 -2.75e-04 -1.04e-03 6.46e-04 9.90e-04 -2.15e-04 -1.41e-02
## 3925 1.49e-04 4.02e-05 1.98e-04 1.06e-04 1.55e-03 2.19e-05 1.47e-05
## 3926 8.25e-04 -5.82e-05 2.39e-04 -4.23e-04 -1.11e-03 -2.02e-05 -7.69e-04
## 3927 -5.77e-03 -1.47e-04 -1.85e-03 3.15e-03 7.80e-03 -3.19e-04 5.53e-03
## 3928 -1.85e-03 1.44e-04 -9.42e-04 2.04e-04 1.17e-03 2.13e-04 5.55e-04
## 3929 -5.03e-03 9.19e-04 -2.65e-03 -1.13e-04 2.10e-03 1.15e-03 4.24e-04
## 3930 -1.27e-03 -1.55e-04 -1.06e-03 -2.13e-04 -6.12e-03 8.61e-06 -2.44e-04
## 3931 3.19e-03 4.59e-04 1.66e-03 -1.36e-03 1.80e-02 2.90e-04 -1.23e-03
## 3932 2.56e-05 -3.75e-05 2.04e-04 1.12e-04 1.91e-04 -6.44e-05 2.64e-03
## 3933 -9.28e-04 -1.60e-04 -6.90e-04 3.53e-05 -4.21e-03 -6.42e-05 7.13e-05
## 3934 2.26e-02 9.30e-03 -1.19e-02 -3.79e-03 -2.42e-03 5.32e-03 -4.38e-03
## 3935 -1.51e-02 -6.01e-03 7.62e-03 1.03e-03 -5.01e-04 -3.16e-03 1.20e-03
## 3936 -9.39e-03 -3.84e-03 4.95e-03 7.29e-04 -1.47e-04 -2.07e-03 9.79e-04
## 3937 -1.50e-02 -5.94e-03 6.40e-03 1.13e-03 1.46e-04 -3.18e-03 1.52e-03
## 3938 -2.90e-02 -1.13e-02 1.20e-02 1.99e-03 -9.79e-05 -5.94e-03 2.44e-03
## 3939 8.61e-03 3.64e-03 -4.76e-03 -1.04e-03 -4.12e-04 2.06e-03 -1.42e-03
## 3940 3.78e-03 1.51e-03 -1.92e-03 -2.63e-04 1.16e-04 7.98e-04 -3.14e-04
## 3941 -2.27e-02 -9.00e-03 9.69e-03 1.70e-03 2.03e-04 -4.82e-03 2.29e-03
## 3942 4.70e-03 1.83e-03 -1.95e-03 -5.58e-05 3.70e-04 9.25e-04 -1.44e-04
## 3943 -1.22e-03 -4.35e-04 5.18e-04 -7.03e-05 -2.71e-04 -1.86e-04 -1.25e-04
## 3944 3.81e-03 6.48e-04 -4.41e-04 -5.50e-03 -9.80e-03 1.18e-03 -7.67e-03
## 3945 -2.60e-03 2.36e-04 -9.36e-04 9.33e-04 2.54e-03 2.29e-04 1.52e-03
## 3946 2.35e-04 -1.20e-05 2.06e-04 9.03e-05 1.62e-03 -4.78e-05 1.56e-04
## 3947 1.51e-03 8.92e-05 1.22e-04 -1.50e-03 -2.93e-03 2.21e-04 -2.19e-03
## 3948 1.33e-02 5.61e-03 -7.34e-03 -1.60e-03 -6.40e-04 3.18e-03 -2.19e-03
## 3949 3.29e-03 -3.75e-04 1.33e-03 -8.59e-04 -2.73e-03 -4.08e-04 -1.49e-03
## 3950 -1.56e-02 -6.34e-03 6.95e-03 1.30e-03 3.80e-04 -3.47e-03 1.90e-03
## 3951 4.03e-03 -1.63e-04 1.78e-03 -1.06e-03 -3.38e-03 -2.47e-04 -1.94e-03
## 3952 4.97e-05 -1.38e-06 1.25e-05 -3.01e-05 -6.49e-05 4.30e-08 -4.35e-05
## 3953 -9.45e-03 5.94e-04 -4.55e-03 1.72e-03 7.92e-03 7.17e-04 4.73e-03
## 3954 -5.86e-04 3.89e-05 -2.87e-04 8.99e-05 3.78e-04 6.21e-05 1.78e-04
## 3955 5.62e-04 -3.32e-05 2.67e-04 -1.05e-04 -4.13e-04 -4.95e-05 -2.20e-04
## 3956 -5.86e-03 -5.32e-04 -1.19e-03 4.81e-03 1.07e-02 -9.65e-04 8.13e-03

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## 3957 -9.11e-05 -4.40e-05 -3.57e-05  9.12e-05 -4.06e-04 -4.73e-05  1.41e-04
## 3958  1.49e-03  4.04e-04  8.55e-04 -8.75e-04  1.43e-02  4.25e-04 -1.42e-03
## 3959  9.66e-03 -8.50e-04  5.09e-03 -7.42e-04 -6.44e-03 -1.13e-03 -3.33e-03
## 3960 -1.93e-04 -1.22e-04 -3.25e-06  3.43e-04 -5.14e-04 -1.45e-04  4.73e-04
## 3961 -5.66e-04 -6.76e-05 -5.41e-04 -2.03e-04 -3.31e-03  1.22e-05 -1.79e-04
## 3962  7.86e-03  2.98e-03 -3.71e-03  3.16e-04  1.48e-03  1.38e-03  4.08e-04
## 3963  3.51e-03  1.27e-03 -1.28e-03  1.34e-04  5.58e-04  5.77e-04  1.98e-04
## 3964  2.54e-03  9.73e-04 -1.02e-03 -1.77e-05  2.24e-04  4.83e-04 -4.35e-05
## 3965  6.86e-03  2.50e-03 -3.03e-03  3.48e-04  1.43e-03  1.10e-03  5.66e-04
## 3966 -5.01e-03 -1.74e-03  1.68e-03 -5.38e-04 -1.30e-03 -7.02e-04 -7.27e-04
## 3967  1.53e-03  4.98e-04 -4.55e-04  2.75e-04  5.60e-04  1.69e-04  3.73e-04
## 3968  5.50e-03  1.86e-03 -2.13e-03  5.52e-04  1.58e-03  7.08e-04  9.27e-04
## 3969 -1.09e-02 -3.61e-03  3.30e-03 -9.87e-04 -2.68e-03 -1.38e-03 -1.68e-03
## 3970 -1.68e-01 -8.23e-02 -3.69e-01 -1.24e-03 -3.91e-02 -2.16e-02 -2.27e-02
## 3971  8.98e-03  3.31e-03 -4.03e-03  1.51e-04  1.44e-03  1.52e-03  3.95e-04
## 3972  4.53e-03  1.47e-03 -1.68e-03  1.07e-03  2.16e-03  4.43e-04  1.44e-03
## 3973  5.67e-03  2.01e-03 -2.38e-03  1.56e-04  1.03e-03  8.80e-04  4.20e-04
## 3974 -1.23e-04  2.55e-05 -6.88e-05 -1.16e-05  4.51e-05  3.10e-05  5.39e-06
## 3975  1.08e-02 -1.21e-03  4.28e-03 -2.94e-03 -9.26e-03 -1.28e-03 -5.18e-03
## 3976 -4.32e-04 -1.90e-04 -2.17e-04  3.34e-04 -2.15e-03 -1.94e-04  5.56e-04
## 3977 -4.30e-03 -5.92e-04 -4.94e-04  4.47e-03  1.03e-02 -1.19e-03  8.34e-03
## 3978  1.01e-03  2.29e-04  3.33e-04 -8.31e-04  4.53e-03  2.18e-04 -8.57e-04
## 3979 -7.20e-03 -5.42e-04 -1.67e-03  5.37e-03  1.14e-02 -8.75e-04  8.36e-03
## 3980 -1.38e-03 -5.78e-04  5.54e-04  3.14e-03  6.94e-03 -1.16e-03  6.10e-03
## 3981  4.28e-03  8.18e-05  5.14e-03  3.72e-03  3.00e-02 -7.65e-04  3.91e-03
## 3982 -2.11e-03  2.13e-03  5.85e-04 -1.04e-04  3.19e-02  3.01e-03 -7.09e-03
## 3983 -4.12e-04  1.60e-04 -1.04e-03 -2.87e-02 -1.58e-03  3.63e-04 -1.41e-03
## 3984 -2.74e-04 -1.07e-04 -1.07e-03 -9.32e-05  1.60e-06 -1.87e-05 -1.33e-02
## 3985  3.22e-03  2.14e-03 -1.45e-03 -8.43e-03  6.56e-03  2.83e-03 -1.03e-02
## 3986 -5.35e-03  3.26e-04 -2.56e-03  9.55e-04  3.81e-03  4.96e-04  1.98e-03
## 3987 -3.36e-03  6.15e-04 -1.77e-03 -7.07e-05  1.42e-03  7.63e-04  2.98e-04
## 3988  5.62e-04  4.51e-05  3.59e-04 -8.99e-05  3.42e-03 -2.83e-06 -2.33e-05
## 3989  1.37e-02  2.11e-03  1.20e-03 -1.49e-02 -3.08e-02  3.66e-03 -2.43e-02
## 3990  1.81e-03 -1.82e-04  1.91e-03  1.26e-03  1.56e-02 -5.03e-04  1.75e-03
## 3991 -4.54e-03  8.29e-04 -2.38e-03 -8.27e-05  1.96e-03  1.02e-03  4.42e-04
## 3992  7.38e-05  3.02e-04 -9.54e-04 -1.16e-03 -1.73e-03  4.62e-04 -9.98e-03
## 3993  4.56e-04  8.45e-04 -1.04e-03  6.84e-02 -5.54e-03  1.25e-03 -4.92e-03
## 3994 -9.18e-04 -2.88e-04 -8.19e-04  8.17e-06 -6.53e-03 -2.25e-04  4.25e-04
## 3995 -3.27e-03  4.64e-04 -9.18e-04 -1.06e-03 -2.46e-03  1.08e-03  1.89e-02
## 3996  3.20e-03  3.05e-04  4.37e-03  3.24e-03  2.91e-02 -2.92e-04  2.50e-03
## 3997 -1.25e-03  2.15e-05 -4.99e-04  4.64e-04  1.39e-03  8.96e-06  9.31e-04
## 3998 -5.74e-04 -4.50e-05 -1.28e-03 -2.33e-04 -3.06e-04  1.12e-04 -1.35e-02
## 3999 -1.32e-04  2.37e-05 -1.61e-04 -1.39e-04 -1.24e-03  5.24e-05 -1.85e-04
## 4000  1.21e-02 -1.38e-03  4.87e-03 -3.16e-03 -1.00e-02 -1.50e-03 -5.47e-03
## 4001  6.11e-03 -8.31e-04  2.69e-03 -1.07e-03 -4.38e-03 -9.44e-04 -2.16e-03
## 4002 -7.63e-04 -1.00e-04  6.71e-05  6.23e-04  8.97e-04 -3.12e-05  4.18e-04
## 4003  6.11e-03 -8.31e-04  2.69e-03 -1.07e-03 -4.38e-03 -9.44e-04 -2.16e-03
## 4004 -2.42e-03  2.69e-04 -9.48e-04  6.88e-04  2.15e-03  2.76e-04  1.23e-03
## 4005 -2.28e-04  1.37e-05 -5.79e-05  1.35e-04  3.50e-04 -1.87e-06  2.53e-04
## 4006  4.13e-03  1.50e-03  8.28e-04 -5.10e-03  2.31e-02  1.74e-03 -6.32e-03
## 4007  1.90e-04  1.91e-04 -1.06e-04  3.73e-02 -1.38e-03  2.83e-04 -1.24e-03
## 4008 -8.16e-03 -1.53e-04 -2.72e-03  4.21e-03  1.05e-02 -3.32e-04  7.27e-03
## 4009  7.09e-03  1.55e-03 -1.51e-03 -1.18e-02 -2.09e-02  2.79e-03 -1.67e-02
## 4010  4.72e-03 -4.85e-04  2.62e-03 -2.13e-05 -2.09e-03 -7.47e-04 -5.96e-04

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## 4011  1.42e-03 -2.94e-04  7.74e-04  9.42e-05 -6.67e-04 -3.38e-04 -2.05e-04
## 4012  3.79e-04  2.66e-04 -5.82e-07 -7.96e-04  3.94e-03  3.56e-04 -1.21e-03
## 4013 -5.74e-04  4.68e-05 -1.88e-04  2.46e-04  6.57e-04  3.38e-05  4.26e-04
## 4014 -3.42e-03  6.27e-04 -1.82e-03 -1.14e-04  1.31e-03  7.96e-04  1.73e-04
## 4015 -2.11e-04  8.88e-08 -1.60e-04 -2.88e-05 -1.29e-03  2.68e-05 -8.03e-05
## 4016 -2.02e-02  4.35e-04  4.58e-02  1.09e-03  6.40e-03 -2.55e-04  3.75e-03
## 4017 -1.86e-03 -5.75e-04 -6.15e-04  1.59e-03 -4.32e-03 -5.42e-04  1.79e-03
## 4018  7.23e-04  1.63e-04  4.25e-04 -3.51e-04  6.31e-03  1.56e-04 -5.32e-04
## 4019 -7.65e-04  4.05e-06 -2.89e-04  3.11e-04  7.86e-04  8.64e-06  4.97e-04
## 4020  7.27e-03 -1.32e-03  3.72e-03 -6.36e-05 -3.77e-03 -1.55e-03 -1.32e-03
## 4021  3.02e-03  1.92e-03  1.34e-03 -9.99e-03 -1.30e-02  2.38e-03  6.09e-02
## 4022  1.17e-03  4.75e-04  5.56e-05 -1.76e-03  4.78e-03  5.69e-04 -2.10e-03
## 4023  1.15e-03  4.23e-04  3.14e-04 -1.32e-03  7.95e-03  4.94e-04 -1.75e-03
## 4024  9.99e-04  7.53e-05  6.40e-04 -1.49e-04  5.99e-03 -1.25e-05 -1.80e-05
## 4025  7.94e-03  4.77e-04  2.05e-03 -5.50e-03 -1.28e-02  9.09e-04 -9.48e-03
## 4026  1.96e-04  2.18e-05  3.24e-05 -1.77e-04 -3.77e-04  3.79e-05 -2.90e-04
## 4027  2.02e-04 -1.16e-05  1.76e-04  7.84e-05  1.34e-03 -4.30e-05  1.40e-04
## 4028  1.07e-03  2.83e-05  3.42e-04 -6.00e-04 -1.58e-03  7.90e-05 -1.16e-03
## 4029  3.35e-05  2.05e-04 -1.04e-04  5.71e-02 -1.54e-03  3.35e-04 -1.48e-03
## 4030 -4.76e-04  2.51e-04 -1.83e-03 -5.76e-02 -2.83e-03  5.79e-04 -2.38e-03
## 4031  8.25e-04 -5.82e-05  2.39e-04 -4.23e-04 -1.11e-03 -2.02e-05 -7.69e-04
## 4032 -5.77e-03 -1.47e-04 -1.85e-03  3.15e-03  7.80e-03 -3.19e-04  5.53e-03
## 4033  2.76e-03 -1.96e-04  1.37e-03 -3.98e-04 -2.01e-03 -2.67e-04 -1.09e-03
## 4034  4.40e-02  1.88e-02  1.08e-01  1.74e-02  3.48e-02  3.74e-04  2.68e-02
## 4035 -4.42e-03  8.07e-04 -2.31e-03 -6.17e-05  1.97e-03  9.90e-04  4.89e-04
## 4036 -8.20e-03  5.15e-04 -3.94e-03  1.49e-03  6.87e-03  6.22e-04  4.10e-03
## 4037  2.06e-03  2.93e-04 -1.88e-04 -2.85e-03 -5.35e-03  6.04e-04 -4.22e-03
## 4038  5.59e-03  2.28e-03 -2.52e-03 -4.79e-04 -1.64e-04  1.26e-03 -7.19e-04
## 4039 -1.60e-03 -2.94e-05 -2.36e-04  1.35e-03  2.79e-03 -1.47e-04  2.05e-03
## 4040  1.60e-02  6.58e-03 -7.23e-03 -2.29e-03 -1.70e-03  3.76e-03 -2.96e-03
## 4041  8.95e-03  3.42e-03 -3.58e-03 -5.57e-04  1.34e-04  1.76e-03 -6.09e-04
## 4042  1.36e-02  5.22e-03 -5.47e-03 -1.24e-03 -3.42e-04  2.76e-03 -1.35e-03
## 4043 -2.86e-02  1.65e-04  5.91e-02 -3.77e-04  7.08e-03 -3.60e-04  3.67e-03
## 4044  1.77e-03  1.44e-04  1.22e-04 -1.82e-03 -3.29e-03  2.69e-04 -2.41e-03
## 4045  3.08e-03  8.72e-04 -9.23e-04 -5.27e-04 -2.94e-03  4.52e-04 -8.23e-04
## 4046 -4.25e-04 -3.54e-04 -1.78e-03  3.85e-04  8.63e-04 -2.71e-04 -2.50e-02
## 4047  2.21e-04 -5.31e-06  5.35e-05 -1.39e-04 -3.01e-04  2.29e-06 -2.05e-04
## 4048  1.42e-01  4.30e-03 -3.25e-01 -1.62e-02 -6.69e-02  1.08e-02 -4.92e-02
## 4049 -8.34e-05  5.87e-04 -1.71e-03 -2.22e-03 -3.36e-03  9.19e-04 -1.51e-02
## 4050  2.90e-03 -1.85e-03  1.10e-02  1.01e-02  1.45e-02 -3.77e-03  8.82e-02
## 4051 -2.17e-04  6.29e-05  5.37e-04 -3.80e-04 -5.09e-04  9.70e-05  1.37e-02
## 4052 -1.95e-03 -4.93e-04 -1.46e-03  2.85e-04 -1.04e-02 -3.44e-04  7.25e-04
## 4053  1.28e-02 -5.04e-04  5.62e-03 -3.59e-03 -1.26e-02 -5.09e-04 -8.10e-03
## 4054 -7.06e-03 -6.30e-04 -1.44e-03  5.81e-03  1.34e-02 -1.24e-03  1.04e-02
## 4055 -5.59e-03  8.92e-04 -2.70e-03  4.25e-04  3.17e-03  1.07e-03  1.22e-03
## 4056  7.62e-03 -1.22e-03  3.72e-03 -5.16e-04 -4.13e-03 -1.49e-03 -1.48e-03
## 4057  9.26e-04 -9.02e-05  5.04e-04 -2.87e-05 -4.86e-04 -1.33e-04 -1.91e-04
## 4058  1.91e-03 -2.97e-04  8.72e-04 -2.53e-04 -1.40e-03 -3.17e-04 -7.17e-04
## 4059 -3.19e-03  5.83e-04 -1.67e-03 -4.45e-05  1.42e-03  7.14e-04  3.53e-04
## 4060 -1.06e-02 -9.72e-05  2.26e-02  4.49e-04  3.59e-03 -4.00e-04  2.28e-03
## 4061  7.66e-04  7.54e-05  8.50e-04  4.74e-04  5.32e-03 -4.89e-05  4.09e-04
## 4062 -5.40e-07  1.11e-07 -3.07e-07 -6.38e-08  1.49e-07  1.42e-07 -2.28e-08
## 4063  5.71e-03 -4.95e-04  3.00e-03 -3.90e-04 -2.92e-03 -7.88e-04 -1.06e-03
## 4064  4.86e-03  1.66e-03 -1.52e-03  1.01e-03  8.99e-04  8.91e-04 -4.14e-04

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## 4065 2.59e-03 1.03e-03 -1.11e-03 -1.23e-04 7.07e-05 5.41e-04 -1.96e-04
## 4066 2.67e-03 9.67e-04 -9.79e-04 3.44e-04 7.50e-04 4.05e-04 3.83e-04
## 4067 -9.55e-03 -3.83e-03 4.87e-03 6.70e-04 -2.82e-04 -2.02e-03 8.11e-04
## 4068 2.39e-02 1.35e-02 5.47e-02 -2.22e-03 1.85e-03 4.75e-03 -1.04e-03
## 4069 -6.11e-03 -2.31e-03 2.83e-03 1.23e-04 -6.54e-04 -1.12e-03 2.22e-05
## 4070 -8.63e-04 4.36e-05 -2.54e-04 4.40e-04 1.01e-03 2.95e-05 6.47e-04
## 4071 -8.60e-03 -2.87e-03 2.67e-03 -1.25e-03 -2.73e-03 -1.05e-03 -1.73e-03
## 4072 -3.03e-03 -1.02e-03 1.17e-03 -3.04e-04 -8.70e-04 -3.89e-04 -5.12e-04
## 4073 -2.19e-02 -6.33e-03 6.32e-03 -3.54e-03 -8.56e-03 -1.63e-03 -6.51e-03
## 4074 -2.92e-04 2.48e-04 -1.10e-03 -7.73e-04 -1.31e-03 4.31e-04 -1.18e-02
## 4075 5.84e-03 2.18e-03 -2.25e-03 1.73e-04 8.30e-04 1.03e-03 1.86e-04
## 4076 7.34e-03 3.04e-03 -3.38e-03 -8.77e-04 -5.68e-04 1.73e-03 -1.24e-03
## 4077 -1.39e-02 -4.07e-03 3.06e-03 -4.67e-03 -5.40e-03 -1.62e-03 -1.69e-03
## 4078 -1.37e-03 -5.51e-05 -4.02e-04 8.37e-04 2.06e-03 -1.19e-04 1.51e-03
## 4079 -4.37e-04 3.26e-05 -2.20e-04 5.54e-05 2.97e-04 4.65e-05 1.51e-04
## 4080 -5.85e-03 1.20e-03 -3.34e-03 -7.18e-04 1.51e-03 1.55e-03 -3.47e-04
## 4081 -1.91e-04 3.13e-05 -3.09e-04 -2.94e-04 -3.14e-03 7.06e-05 -2.84e-04
## 4082 -4.27e-03 -2.98e-04 -1.03e-03 3.14e-03 7.29e-03 -5.77e-04 5.50e-03
## 4083 1.13e-03 2.11e-04 5.57e-04 -6.08e-04 7.05e-03 1.77e-04 -6.74e-04
## 4084 -1.25e-04 -1.41e-05 5.58e-04 -5.35e-05 -2.77e-05 -2.57e-05 1.12e-02
## 4085 2.51e-03 3.29e-04 -9.40e-05 -3.18e-03 -5.71e-03 6.09e-04 -4.38e-03
## 4086 -1.91e-03 -3.56e-04 -2.33e-03 -1.27e-03 -1.66e-02 -8.46e-05 -5.93e-04
## 4087 3.95e-04 1.91e-04 1.55e-04 -3.95e-04 1.76e-03 2.05e-04 -6.12e-04
## 4088 -3.07e-04 -1.40e-04 -1.87e-04 1.95e-04 -1.85e-03 -1.42e-04 3.83e-04
## 4089 -1.44e-03 9.53e-04 -1.48e-03 -2.40e-03 7.56e-03 1.63e-03 -5.12e-03
## 4090 -3.66e-03 1.98e-04 -1.71e-03 7.73e-04 2.93e-03 2.78e-04 1.66e-03
## 4091 -1.27e-03 -3.51e-07 -4.68e-04 5.61e-04 1.51e-03 -1.95e-05 1.03e-03
## 4092 3.59e-02 1.97e-02 7.68e-02 -3.75e-03 3.73e-05 7.48e-03 -3.19e-03
## 4093 -1.05e-02 4.26e-04 -4.64e-03 2.77e-03 8.81e-03 6.45e-04 5.07e-03
## 4094 2.45e-02 8.42e-03 -9.84e-03 2.34e-03 6.80e-03 3.32e-03 3.77e-03
## 4095 -1.16e-02 -1.58e-01 7.20e-02 2.36e-03 5.06e-03 -3.61e-03 4.94e-03
## 4096 -5.19e-03 -2.00e-03 2.11e-03 1.92e-04 -2.46e-04 -1.02e-03 2.50e-04
## 4097 3.37e-05 7.13e-02 8.23e-03 7.05e-05 -8.43e-04 -3.85e-04 3.97e-04
## 4098 -4.32e-06 1.33e-04 1.30e-05 1.20e-06 3.41e-07 -1.15e-06 1.39e-06
## 4099 1.35e-03 -4.60e-02 -3.65e-03 1.51e-03 2.64e-03 -2.77e-04 1.94e-03
## 4100 1.17e-03 -8.32e-02 -8.27e-03 1.37e-03 3.50e-03 -3.98e-04 2.26e-03
## 4101 7.70e-04 -6.30e-02 -6.35e-03 9.86e-04 2.53e-03 -2.53e-04 1.56e-03
## 4102 -4.07e-03 2.07e-04 -1.87e-03 9.18e-04 3.41e-03 2.77e-04 2.00e-03
## 4103 4.04e-04 3.65e-05 3.21e-07 -4.73e-04 -9.28e-04 8.74e-05 -7.20e-04
## 4104 -1.49e-03 8.32e-05 -4.18e-04 7.98e-04 1.94e-03 2.91e-05 1.32e-03
## 4105 -1.09e-03 -4.92e-05 -3.10e-04 6.81e-04 1.59e-03 -9.07e-05 1.14e-03
## 4106 -1.32e-02 1.89e-03 -8.27e-03 -2.18e-03 2.26e-03 2.94e-03 -1.57e-03
## 4107 5.00e-03 -8.07e-04 2.47e-03 -2.66e-04 -2.50e-03 -1.01e-03 -7.72e-04
## 4108 -1.22e-02 9.12e-04 -6.15e-03 1.55e-03 8.30e-03 1.30e-03 4.23e-03
## 4109 -6.67e-04 5.11e-04 -3.91e-03 -3.36e-03 -4.57e-03 1.11e-03 -3.53e-02
## 4110 1.61e-02 6.39e-03 -6.88e-03 -1.21e-03 -1.56e-04 3.42e-03 -1.64e-03
## 4111 -7.06e-03 -6.30e-04 -1.44e-03 5.81e-03 1.34e-02 -1.24e-03 1.04e-02
## 4112 -2.69e-03 -8.39e-04 7.39e-04 -7.54e-04 -1.36e-03 -2.26e-04 -9.65e-04
## 4113 -5.70e-03 2.36e-04 -2.53e-03 1.48e-03 4.72e-03 3.61e-04 2.70e-03
## 4114 -4.80e-03 -1.83e-04 -1.43e-03 2.85e-03 6.65e-03 -3.27e-04 4.72e-03
## 4115 9.90e-04 2.25e-04 3.26e-04 -8.15e-04 4.44e-03 2.14e-04 -8.40e-04
## 4116 2.33e-03 3.43e-04 -2.43e-04 -3.29e-03 -6.18e-03 7.09e-04 -4.89e-03
## 4117 3.10e-04 1.57e-05 3.03e-04 1.02e-04 3.40e-03 -1.48e-05 7.23e-05
## 4118 1.07e-02 4.32e-03 -5.52e-03 -1.11e-03 -1.98e-04 2.36e-03 -1.32e-03

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## 4119  1.68e-02  6.79e-03 -7.38e-03 -1.83e-03 -9.58e-04  3.75e-03 -2.39e-03
## 4120  3.01e-02  1.65e-02  6.31e-02 -4.48e-03 -1.81e-03  6.54e-03 -4.06e-03
## 4121  6.09e-05  4.38e-06  1.42e-07 -7.09e-05 -1.48e-04  1.34e-05 -1.17e-04
## 4122 -1.06e-02 -4.14e-03  4.42e-03  4.44e-04 -4.01e-04 -2.14e-03  6.50e-04
## 4123 -5.11e-03 -2.02e-03  2.18e-03  2.36e-04 -1.52e-04 -1.06e-03  3.72e-04
## 4124 -7.78e-03 -5.44e-04 -1.87e-03  5.73e-03  1.33e-02 -1.05e-03  1.00e-02
## 4125  4.95e-03  1.78e-03 -1.79e-03  4.91e-04  1.20e-03  7.61e-04  5.84e-04
## 4126  5.38e-03  2.08e-03 -2.63e-03  1.83e-04  9.46e-04  9.94e-04  1.81e-04
## 4127  1.46e-02  5.07e-03 -5.99e-03  1.84e-03  4.64e-03  1.96e-03  2.62e-03
## 4128  1.22e-02  4.67e-03 -4.92e-03 -8.67e-05  1.07e-03  2.32e-03 -2.13e-04
## 4129  1.69e-03  4.54e-05  2.44e-04 -1.43e-03 -2.86e-03  1.55e-04 -2.07e-03
## 4130 -7.16e-04 -1.81e-04 -5.34e-04  1.05e-04 -3.80e-03 -1.26e-04  2.66e-04
## 4131  1.03e-03  4.99e-05  9.09e-05 -1.00e-03 -2.01e-03  1.45e-04 -1.51e-03
## 4132  7.27e-03 -2.67e-04  3.15e-03 -2.12e-03 -7.38e-03 -2.43e-04 -4.81e-03
## 4133  6.26e-04  2.07e-04  3.66e-05  3.87e-02 -1.57e-03  2.51e-04 -1.24e-03
## 4134  1.88e-02  7.03e-03 -8.62e-03  2.52e-04  2.91e-03  3.28e-03  6.48e-04
## 4135 -6.14e-03  9.50e-05 -2.43e-03  2.32e-03  6.94e-03  1.93e-05  4.69e-03
## 4136 -2.27e-03 -6.40e-04 -8.93e-04  1.64e-03 -5.87e-03 -5.63e-04  1.83e-03
## 4137  8.32e-04  3.06e-04  2.27e-04 -9.55e-04  5.75e-03  3.58e-04 -1.27e-03
## 4138 -2.99e-03  3.41e-04 -1.20e-03  7.80e-04  2.48e-03  3.71e-04  1.35e-03
## 4139 -1.22e-03 -4.41e-04  5.32e-04 -6.34e-05 -2.57e-04 -1.93e-04 -1.05e-04
## 4140  5.44e-03 -5.45e-04  2.99e-03 -9.46e-05 -2.63e-03 -8.21e-04 -8.99e-04
## 4141 -1.48e-03 -1.27e-04 -1.90e-05  9.42e-04  1.31e-03  3.86e-05  4.41e-04
## 4142 -7.38e-03 -3.15e-04 -2.15e-03  4.49e-03  9.97e-03 -4.88e-04  6.96e-03
## 4143  2.38e-03  6.64e-04  8.24e-04 -2.13e-03  1.43e-02  7.03e-04 -2.58e-03
## 4144 -6.09e-04  4.73e-04  5.05e-05 -2.04e-03 -3.00e-03  7.53e-04  1.91e-02
## 4145  2.10e-02  7.57e-03 -9.13e-03  1.80e-03  5.42e-03  3.19e-03  2.58e-03
## 4146  0.00e+00  0.00e+00  0.00e+00  0.00e+00  0.00e+00  0.00e+00  0.00e+00
## 4147  1.22e-02  3.00e-03 -3.71e-03  2.43e-04 -9.02e-03  1.04e-03 -4.99e-04
## 4148  3.10e-02  1.07e-02  5.22e-02 -6.39e-03 -4.22e-02  3.23e-03 -9.19e-03
## 4149  2.28e-02  6.15e-03 -7.83e-03 -2.20e-03 -2.04e-02  2.81e-03 -4.16e-03
## 4150 -4.23e-03 -1.47e-03  1.73e-03 -3.95e-04 -1.16e-03 -5.89e-04 -6.22e-04
## 4151  1.46e-02  5.20e-03 -6.20e-03  8.18e-04  3.19e-03  2.23e-03  1.43e-03
## 4152  6.07e-03  1.11e-04  1.12e-03 -4.64e-03 -8.93e-03  3.36e-04 -6.16e-03
## 4153  6.74e-04  1.95e-04 -2.55e-04 -9.91e-04 -1.44e-03  1.88e-04 -9.44e-04
## 4154  1.91e-04  1.28e-04 -2.18e-05 -3.87e-04  3.62e-04  1.56e-04 -5.17e-04
## 4155  2.21e-03 -2.15e-04  1.20e-03 -6.85e-05 -1.16e-03 -3.16e-04 -4.56e-04
## 4156  7.28e-04  8.64e-06  1.34e-04 -5.54e-04 -1.10e-03  4.14e-05 -7.73e-04
## 4157 -1.09e-03 -4.15e-04 -5.72e-04  7.20e-04 -5.04e-03 -4.03e-04  1.15e-03
## 4158  7.88e-04 -4.60e-05  3.72e-04 -1.60e-04 -7.07e-04 -5.07e-05 -4.40e-04
## 4159 -2.94e-03  5.49e-04 -3.04e-03 -2.44e-03 -1.84e-02  1.20e-03 -3.99e-03
## 4160 -7.90e-03 -5.52e-04 -1.90e-03  5.81e-03  1.35e-02 -1.07e-03  1.02e-02
## 4161  2.76e-03 -4.22e-04  1.22e-03 -4.56e-04 -2.28e-03 -4.19e-04 -1.29e-03
## 4162  1.24e-03  5.04e-04 -6.43e-04 -1.29e-04 -2.28e-05  2.74e-04 -1.54e-04
## 4163  4.26e-03 -5.88e-04  1.91e-03 -6.57e-04 -2.81e-03 -6.97e-04 -1.27e-03
## 4164  3.27e-03  5.53e-04 -1.22e-02 -7.44e-05  5.40e-03  7.57e-04 -7.09e-04
## 4165 -3.33e-03  6.02e-04 -1.66e-03  1.18e-04  2.01e-03  6.70e-04  8.79e-04
## 4166 -2.43e-03  3.29e-04 -1.06e-03  4.48e-04  1.80e-03  3.67e-04  9.11e-04
## 4167  2.34e-03 -5.32e-05  9.57e-04 -8.09e-04 -2.45e-03 -4.68e-05 -1.60e-03
## 4168  1.06e-05 -1.52e-04  7.08e-04  5.09e-04  8.13e-04 -2.47e-04  9.06e-03
## 4169 -2.30e-03  4.48e-05 -9.23e-04  8.56e-04  2.83e-03 -1.99e-05  2.00e-03
## 4170 -1.44e-02 -1.06e-03  6.14e-02 -4.07e-04 -1.64e-03 -1.78e-03 -6.58e-02
## 4171  1.71e-02 -2.03e-03  9.97e-03  9.91e-04 -6.64e-03 -3.02e-03 -1.42e-03
## 4172 -1.40e-05  3.57e-05 -1.44e-04 -1.22e-04 -1.95e-04  5.84e-05 -1.62e-03

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## 4173 -6.08e-03 4.74e-04 -3.10e-03 6.69e-04 3.84e-03 7.01e-04 1.83e-03
## 4174 -1.27e-03 -3.51e-07 -4.68e-04 5.61e-04 1.51e-03 -1.95e-05 1.03e-03
## 4175 -4.07e-03 2.07e-04 -1.87e-03 9.18e-04 3.41e-03 2.77e-04 2.00e-03
## 4176 1.08e-03 -2.23e-04 6.06e-04 1.10e-04 -3.65e-04 -2.75e-04 -1.89e-05
## 4177 -7.02e-03 -1.85e-04 -2.24e-03 3.93e-03 1.04e-02 -5.17e-04 7.62e-03
## 4178 1.85e-02 6.54e-03 -7.79e-03 1.66e-03 4.93e-03 2.68e-03 2.51e-03
## 4179 1.60e-02 5.64e-03 -6.72e-03 1.43e-03 4.25e-03 2.32e-03 2.17e-03
## 4180 -1.19e-02 -4.19e-03 4.93e-03 -3.45e-04 -2.18e-03 -1.82e-03 -9.28e-04
## 4181 1.65e-02 5.72e-03 -6.72e-03 1.56e-03 4.55e-03 2.28e-03 2.48e-03
## 4182 1.18e-02 3.81e-03 -4.41e-03 3.62e-03 6.75e-03 1.02e-03 4.55e-03
## 4183 -1.68e-03 2.80e-05 -3.71e-04 1.13e-03 2.44e-03 -4.81e-05 1.71e-03
## 4184 -6.52e-04 -2.10e-04 1.92e-04 -1.81e-04 -3.25e-04 -6.12e-05 -2.23e-04
## 4185 -4.49e-02 -7.05e-03 2.23e-04 -7.43e-03 -2.04e-02 2.30e-03 -2.21e-02
## 4186 1.11e-02 4.38e-03 -4.74e-03 -1.91e-04 7.56e-04 2.26e-03 -5.04e-04
## 4187 5.95e-02 9.76e-04 -1.25e-01 -4.71e-03 -2.26e-02 2.72e-03 -1.47e-02
## 4188 8.36e-03 2.95e-03 -3.52e-03 7.50e-04 2.22e-03 1.21e-03 1.14e-03
## 4189 7.83e-03 2.87e-03 -3.47e-03 1.48e-04 1.29e-03 1.31e-03 3.90e-04
## 4190 1.23e-02 4.39e-03 -5.27e-03 1.09e-03 3.24e-03 1.82e-03 1.61e-03
## 4191 1.02e-02 1.59e-04 3.48e-03 -5.13e-03 -1.28e-02 3.46e-04 -8.79e-03
## 4192 6.20e-04 2.12e-04 -2.48e-04 7.98e-05 2.01e-04 8.01e-05 1.17e-04
## 4193 8.09e-03 2.91e-03 -3.50e-03 4.39e-04 1.74e-03 1.26e-03 7.50e-04
## 4194 5.99e-03 6.70e-05 9.99e-04 -4.78e-03 -9.90e-03 4.46e-04 -7.15e-03
## 4195 1.96e-03 -3.60e-04 1.05e-03 6.78e-05 -7.43e-04 -4.58e-04 -9.12e-05
## 4196 1.41e-04 9.53e-05 8.97e-04 -7.18e-04 -8.36e-04 8.96e-05 1.91e-02
## 4197 9.88e-04 -1.25e-04 1.27e-03 1.18e-03 6.27e-03 -3.78e-04 1.51e-03
## 4198 -8.64e-05 -5.78e-05 -4.69e-04 -2.43e-05 4.22e-05 -2.63e-05 -6.12e-03
## 4199 5.70e-03 1.99e-03 -2.34e-03 3.51e-04 1.31e-03 8.29e-04 6.51e-04
## 4200 5.40e-03 1.47e-03 -1.81e-03 -9.83e-04 -5.18e-03 7.32e-04 -1.37e-03
## 4201 -2.22e-02 -9.67e-03 1.28e-02 3.62e-03 2.47e-03 -5.72e-03 4.97e-03
## 4202 4.58e-03 1.79e-03 -2.23e-03 -2.76e-04 2.19e-04 9.16e-04 -2.72e-04
## 4203 1.12e-02 4.44e-03 -5.59e-03 -7.27e-04 4.46e-04 2.31e-03 -7.95e-04
## 4204 -7.54e-03 -2.98e-03 3.74e-03 7.13e-04 8.78e-06 -1.58e-03 7.57e-04
## 4205 -1.23e-02 -5.33e-03 -2.55e-02 -5.57e-04 -3.66e-03 -1.02e-03 -2.84e-03
## 4206 9.76e-03 2.47e-03 -2.86e-03 -1.52e-03 -8.58e-03 1.10e-03 -1.87e-03
## 4207 5.08e-03 -5.49e-04 1.93e-03 -1.58e-03 -4.87e-03 -5.20e-04 -2.92e-03
## 4208 3.33e-05 9.04e-05 -3.69e-04 -3.26e-04 -4.99e-04 1.40e-04 -4.68e-03
## 4209 -1.05e-02 -1.86e-03 8.11e-04 -5.57e-03 -9.86e-03 8.68e-04 -8.53e-03
## 4210 -6.47e-04 -9.75e-05 -6.13e-05 6.90e-04 1.39e-03 -1.61e-04 1.08e-03
## 4211 1.93e-03 -1.88e-04 1.05e-03 -5.98e-05 -1.01e-03 -2.76e-04 -3.98e-04
## 4212 9.36e-04 -1.10e-04 5.43e-04 4.66e-05 -3.89e-04 -1.61e-04 -1.03e-04
## 4213 -8.28e-04 9.09e-05 -3.20e-04 2.46e-04 7.62e-04 9.02e-05 4.45e-04
## 4214 2.08e-04 3.27e-05 3.11e-04 2.34e-04 2.24e-03 -4.10e-06 1.40e-04
## 4215 -2.39e-03 8.63e-05 -1.04e-03 6.79e-04 2.13e-03 1.22e-04 1.27e-03
## 4216 -1.65e-03 9.04e-05 -7.69e-04 3.65e-04 1.57e-03 9.03e-05 1.00e-03
## 4217 1.25e-02 -8.47e-05 4.77e-03 -5.12e-03 -1.39e-02 -5.38e-06 -9.22e-03
## 4218 6.69e-03 -4.99e-04 3.37e-03 -8.47e-04 -4.54e-03 -7.11e-04 -2.31e-03
## 4219 7.97e-03 -6.48e-04 4.11e-03 -7.53e-04 -4.67e-03 -9.87e-04 -2.05e-03
## 4220 5.41e-05 2.62e-06 1.51e-05 -3.51e-05 -8.62e-05 5.66e-06 -6.42e-05
## 4221 -6.12e-03 4.10e-04 -2.99e-03 9.95e-04 4.78e-03 5.30e-04 2.73e-03
## 4222 -1.03e-05 8.19e-07 -5.27e-06 1.05e-06 6.25e-06 1.23e-06 2.86e-06
## 4223 -1.98e-03 2.57e-05 -2.25e-03 -1.61e-03 -1.21e-02 4.27e-04 -1.92e-03
## 4224 -3.38e-03 8.34e-05 -1.40e-03 1.10e-03 3.08e-03 1.37e-04 1.84e-03
## 4225 3.73e-02 1.18e-03 -1.47e-01 1.38e-02 9.10e-02 2.18e-03 1.33e-02
## 4226 2.03e-03 -1.51e-04 1.02e-03 -2.57e-04 -1.38e-03 -2.16e-04 -7.02e-04

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## 4227 -6.47e-04 -1.24e-05 -7.79e-04 -5.64e-04 -4.54e-03 1.16e-04 -5.92e-04
## 4228 -3.02e-04 -5.21e-05 -2.57e-04 -3.67e-05 -1.64e-03 -1.80e-05 -5.99e-06
## 4229 1.61e-02 -4.25e-04 6.69e-03 -5.29e-03 -1.61e-02 -4.59e-04 -1.03e-02
## 4230 -3.00e-03 1.10e-04 -3.25e-03 -2.30e-03 -1.64e-02 7.29e-04 -3.03e-03
## 4231 -3.23e-05 2.63e-04 -2.35e-03 -2.09e-03 -2.68e-03 5.73e-04 -2.35e-02
## 4232 7.22e-03 1.86e-03 -7.53e-04 -1.13e-02 -2.49e-02 3.66e-03 -2.11e-02
## 4233 -2.06e-02 -4.58e-03 7.85e-02 1.06e-02 -2.01e-02 -6.81e-03 1.45e-02
## 4234 -9.60e-04 -2.37e-04 -3.02e-03 -3.56e-04 -2.32e-04 5.07e-05 -3.55e-02
## 4235 6.41e-04 -1.17e-04 3.38e-04 1.35e-05 -2.71e-04 -1.46e-04 -5.68e-05
## 4236 -1.15e-03 5.02e-04 -4.64e-03 -3.46e-03 -4.77e-03 1.21e-03 -4.20e-02
## 4237 -8.74e-03 8.87e-04 -4.82e-03 9.50e-05 4.04e-03 1.35e-03 1.27e-03
## 4238 -9.94e-03 -3.80e-03 3.96e-03 6.13e-04 -1.60e-04 -1.95e-03 6.62e-04
## 4239 1.73e-02 6.53e-03 -7.99e-03 -8.63e-04 1.15e-03 3.24e-03 -5.69e-04
## 4240 -7.83e-03 -2.97e-03 3.64e-03 4.01e-04 -5.03e-04 -1.48e-03 2.83e-04
## 4241 3.48e-04 -2.13e-05 1.04e-04 -1.74e-04 -4.25e-04 -1.20e-05 -2.81e-04
## 4242 -1.24e-03 -5.64e-04 -3.36e-04 1.42e-03 -3.91e-03 -6.09e-04 1.93e-03
## 4243 4.31e-03 1.61e-03 -1.96e-03 -1.99e-04 3.16e-04 7.89e-04 -1.01e-04
## 4244 4.16e-03 1.05e-04 6.22e-04 -3.49e-03 -6.97e-03 3.64e-04 -5.03e-03
## 4245 6.17e-03 2.43e-03 -3.06e-03 -3.96e-04 2.50e-04 1.26e-03 -4.28e-04
## 4246 9.15e-03 3.07e-03 -3.50e-03 6.56e-04 2.28e-03 1.20e-03 1.32e-03
## 4247 6.49e-03 2.46e-03 -3.04e-03 -1.42e-04 6.74e-04 1.20e-03 -5.48e-05
## 4248 -1.42e-02 -3.20e-03 2.72e-03 -5.16e-04 8.93e-03 -8.97e-04 -2.73e-04
## 4249 1.03e-02 3.52e-03 -4.05e-03 3.83e-04 2.05e-03 1.46e-03 1.04e-03
## 4250 -1.78e-02 -5.12e-03 6.67e-03 3.26e-03 1.80e-02 -2.71e-03 5.16e-03
## 4251 1.04e-02 3.28e-03 -3.59e-03 1.84e-03 4.17e-03 1.00e-03 2.86e-03
## 4252 6.53e-03 1.89e-03 -1.88e-03 8.68e-04 2.30e-03 5.14e-04 1.76e-03
## 4253 1.03e-02 3.51e-03 -4.01e-03 4.12e-04 2.11e-03 1.44e-03 1.12e-03
## 4254 2.55e-03 -3.12e-04 3.37e-03 3.17e-03 1.70e-02 -9.70e-04 3.95e-03
## 4255 -1.79e-02 -3.11e-04 5.17e-02 -8.01e-03 -3.82e-02 2.51e-04 -9.47e-03
## 4256 -1.66e-04 6.81e-04 6.91e-04 2.56e-04 1.28e-02 8.69e-04 -1.87e-03
## 4257 -8.74e-03 8.87e-04 -4.82e-03 9.50e-05 4.04e-03 1.35e-03 1.27e-03
## 4258 -9.94e-03 -3.80e-03 3.96e-03 6.13e-04 -1.60e-04 -1.95e-03 6.62e-04
## 4259 1.73e-02 6.53e-03 -7.99e-03 -8.63e-04 1.15e-03 3.24e-03 -5.69e-04
## 4260 -7.83e-03 -2.97e-03 3.64e-03 4.01e-04 -5.03e-04 -1.48e-03 2.83e-04
## 4261 3.48e-04 -2.13e-05 1.04e-04 -1.74e-04 -4.25e-04 -1.20e-05 -2.81e-04
## 4262 -1.24e-03 -5.64e-04 -3.36e-04 1.42e-03 -3.91e-03 -6.09e-04 1.93e-03
## 4263 4.31e-03 1.61e-03 -1.96e-03 -1.99e-04 3.16e-04 7.89e-04 -1.01e-04
## 4264 4.16e-03 1.05e-04 6.22e-04 -3.49e-03 -6.97e-03 3.64e-04 -5.03e-03
## 4265 6.17e-03 2.43e-03 -3.06e-03 -3.96e-04 2.50e-04 1.26e-03 -4.28e-04
## 4266 9.15e-03 3.07e-03 -3.50e-03 6.56e-04 2.28e-03 1.20e-03 1.32e-03
## 4267 6.49e-03 2.46e-03 -3.04e-03 -1.42e-04 6.74e-04 1.20e-03 -5.48e-05
## 4268 -1.42e-02 -3.20e-03 2.72e-03 -5.16e-04 8.93e-03 -8.97e-04 -2.73e-04
## 4269 1.03e-02 3.52e-03 -4.05e-03 3.83e-04 2.05e-03 1.46e-03 1.04e-03
## 4270 -1.78e-02 -5.12e-03 6.67e-03 3.26e-03 1.80e-02 -2.71e-03 5.16e-03
## 4271 1.04e-02 3.28e-03 -3.59e-03 1.84e-03 4.17e-03 1.00e-03 2.86e-03
## 4272 6.53e-03 1.89e-03 -1.88e-03 8.68e-04 2.30e-03 5.14e-04 1.76e-03
## 4273 1.03e-02 3.51e-03 -4.01e-03 4.12e-04 2.11e-03 1.44e-03 1.12e-03
## 4274 2.55e-03 -3.12e-04 3.37e-03 3.17e-03 1.70e-02 -9.70e-04 3.95e-03
## 4275 -1.79e-02 -3.11e-04 5.17e-02 -8.01e-03 -3.82e-02 2.51e-04 -9.47e-03
## 4276 -1.66e-04 6.81e-04 6.91e-04 2.56e-04 1.28e-02 8.69e-04 -1.87e-03
## 4277 2.93e-04 -1.19e-04 1.23e-03 1.44e-04 4.51e-04 -2.50e-04 1.80e-02
## 4278 -1.79e-03 -1.15e-04 -2.32e-03 -1.71e-03 -1.48e-02 2.26e-04 -1.49e-03
## 4279 1.17e-03 -2.66e-04 7.14e-04 2.52e-04 -1.43e-04 -3.49e-04 2.11e-04
## 4280 8.45e-04 2.47e-04 4.77e-04 -5.38e-04 8.41e-03 2.69e-04 -8.94e-04

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## 4281 7.51e-04 2.90e-04 4.00e-04 -6.34e-04 8.74e-03 3.45e-04 -1.13e-03
## 4282 -3.39e-04 7.59e-06 -8.03e-05 2.17e-04 4.68e-04 -4.86e-06 3.20e-04
## 4283 4.13e-04 -2.47e-05 1.21e-04 -2.10e-04 -5.13e-04 -1.26e-05 -3.42e-04
## 4284 6.51e-04 -4.76e-05 7.42e-04 4.96e-04 6.97e-03 -1.53e-04 5.69e-04
## 4285 1.59e-03 4.44e-04 3.66e-04 -1.66e-03 6.50e-03 4.70e-04 -1.80e-03
## 4286 1.00e-03 9.71e-04 -5.96e-04 -3.35e-03 6.95e-03 1.34e-03 -4.67e-03
## 4287 -1.56e-04 -6.25e-04 1.35e-05 1.03e-03 -5.18e-03 -8.26e-04 2.35e-03
## 4288 -2.21e-02 -4.20e-03 8.38e-02 8.22e-03 -2.65e-02 -6.25e-03 1.16e-02
## 4289 -3.10e-04 8.14e-05 4.66e-04 -4.22e-04 -6.03e-04 1.37e-04 1.35e-02
## 4290 -2.93e-03 3.43e-04 -1.70e-03 -1.46e-04 1.22e-03 5.03e-04 3.23e-04
## 4291 1.20e-03 7.04e-04 -2.50e-04 -2.60e-03 4.99e-03 9.11e-04 -3.28e-03
## 4292 -1.48e-03 -5.05e-04 -1.10e-03 3.95e-04 -9.09e-03 -4.38e-04 1.04e-03
## 4293 -4.16e-03 -2.54e-04 -1.07e-03 2.90e-03 6.74e-03 -4.86e-04 5.01e-03
## 4294 -1.82e-03 -5.53e-04 4.77e-04 -6.36e-04 -1.10e-03 -1.22e-04 -7.93e-04
## 4295 3.32e-02 1.74e-02 7.71e-02 1.15e-03 8.77e-03 4.87e-03 4.32e-03
## 4296 -1.52e-04 5.47e-06 -6.58e-05 4.31e-05 1.35e-04 7.74e-06 8.08e-05
## 4297 -1.94e-03 -5.77e-04 4.82e-04 -6.82e-04 -1.18e-03 -1.17e-04 -8.69e-04
## 4298 4.18e-02 2.45e-02 8.83e-02 -9.37e-03 -7.34e-03 1.08e-02 -1.06e-02
## 4299 -3.28e-03 2.27e-04 -1.06e-03 1.45e-03 3.57e-03 1.90e-04 2.24e-03
## 4300 -3.77e-02 -3.64e-03 9.71e-02 2.01e-02 3.90e-02 -7.43e-03 3.16e-02
## 4301 1.68e-02 8.06e-03 4.14e-02 4.55e-03 1.02e-02 1.16e-03 7.14e-03
## 4302 9.86e-04 2.24e-04 2.48e-04 -9.11e-04 3.13e-03 2.12e-04 -8.66e-04
## 4303 8.04e-03 3.66e-03 2.21e-02 4.71e-03 8.47e-03 -8.21e-05 6.30e-03
## 4304 3.68e-03 1.28e-03 -1.26e-03 6.18e-04 1.25e-03 4.92e-04 7.34e-04
## 4305 -8.54e-02 -4.99e-02 -1.94e-01 1.37e-02 1.90e-03 -1.94e-02 1.17e-02
## 4306 -4.46e-03 -4.57e-04 -3.31e-03 -2.52e-04 -1.73e-02 1.10e-04 -8.04e-04
## 4307 2.76e-03 9.68e-04 -9.55e-04 3.72e-04 8.09e-04 3.88e-04 4.52e-04
## 4308 -1.25e-03 8.91e-04 -3.87e-03 -4.21e-03 -6.19e-03 1.67e-03 -2.63e-02
## 4309 -6.22e-03 1.13e-03 -3.19e-03 5.44e-05 3.22e-03 1.33e-03 1.13e-03
## 4310 1.11e-02 4.56e-03 -5.05e-03 -9.78e-04 -3.79e-04 2.53e-03 -1.50e-03
## 4311 1.52e-02 5.84e-03 -7.29e-03 8.30e-05 2.12e-03 2.82e-03 1.88e-04
## 4312 -2.24e-02 -1.23e-02 -4.80e-02 2.34e-03 -3.28e-05 -4.67e-03 1.98e-03
## 4313 5.62e-03 -6.89e-04 3.32e-03 4.35e-04 -1.80e-03 -1.06e-03 -9.59e-05
## 4314 5.90e-02 -7.65e-04 -1.16e-01 1.77e-03 -1.18e-02 -2.28e-04 -4.46e-03
## 4315 -9.34e-04 -4.35e-05 -2.61e-04 6.20e-04 1.73e-03 -1.32e-04 1.36e-03
## 4316 -7.31e-04 1.17e-04 -3.53e-04 5.56e-05 4.14e-04 1.40e-04 1.59e-04
## 4317 -1.79e-03 -4.93e-07 -6.57e-04 7.89e-04 2.13e-03 -2.73e-05 1.45e-03
## 4318 -5.33e-04 5.35e-05 -5.60e-04 -3.71e-04 -4.58e-03 1.48e-04 -5.14e-04
## 4319 1.49e-03 4.68e-04 2.27e-04 -1.80e-03 5.40e-03 5.18e-04 -1.97e-03
## 4320 -3.02e-03 -9.42e-05 -9.40e-04 1.70e-03 3.97e-03 -1.63e-04 2.77e-03
## 4321 6.04e-04 1.46e-04 2.28e-04 -4.75e-04 3.38e-03 1.44e-04 -5.40e-04
## 4322 2.43e-03 4.27e-04 -4.19e-04 -3.80e-03 -7.18e-03 8.85e-04 -5.78e-03
## 4323 5.41e-05 2.62e-06 1.51e-05 -3.51e-05 -8.62e-05 5.66e-06 -6.42e-05
## 4324 -2.85e-04 5.01e-05 -3.75e-04 -3.34e-04 -3.18e-03 1.11e-04 -4.05e-04
## 4325 -4.78e-03 5.25e-04 -1.85e-03 1.42e-03 4.40e-03 5.21e-04 2.57e-03
## 4326 2.87e-03 2.13e-03 -1.60e-03 -8.29e-03 6.09e-03 2.85e-03 -1.03e-02
## 4327 -8.51e-04 5.66e-04 -6.43e-05 -2.38e-03 -3.54e-03 9.19e-04 2.14e-02
## 4328 -6.91e-04 1.84e-04 -9.64e-04 -9.93e-04 -7.13e-03 3.64e-04 -1.29e-03
## 4329 -1.89e-03 -4.75e-04 -1.65e-03 -9.24e-05 -1.20e-02 -3.08e-04 4.71e-04
## 4330 3.40e-04 3.47e-05 2.15e-04 -7.10e-05 2.21e-03 9.50e-06 -4.94e-05
## 4331 -1.42e-03 -6.48e-04 -8.67e-04 9.04e-04 -8.58e-03 -6.57e-04 1.78e-03
## 4332 -2.27e-04 -3.36e-05 5.45e-04 5.29e-04 5.82e-04 -7.40e-05 6.88e-03
## 4333 4.09e-03 1.54e-05 1.47e-03 -1.91e-03 -5.54e-03 1.70e-04 -4.00e-03
## 4334 -2.25e-03 -3.89e-04 -1.91e-03 -2.74e-04 -1.22e-02 -1.34e-04 -4.47e-05

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## 4335 3.62e-03 4.49e-04 5.07e-04 -3.54e-03 -8.17e-03 9.01e-04 -6.55e-03
## 4336 -1.23e-03 -6.44e-05 -1.29e-03 -7.30e-04 -7.40e-03 1.48e-04 -7.99e-04
## 4337 -1.23e-03 -6.44e-05 -1.29e-03 -7.30e-04 -7.40e-03 1.48e-04 -7.99e-04
## 4338 3.25e-04 8.40e-05 1.46e-04 -2.36e-04 2.35e-03 8.62e-05 -3.07e-04
## 4339 5.72e-03 -2.10e-04 2.48e-03 -1.67e-03 -5.81e-03 -1.91e-04 -3.78e-03
## 4340 -3.90e-03 5.19e-04 -1.66e-03 8.02e-04 3.11e-03 5.52e-04 1.68e-03
## 4341 7.77e-03 -1.25e-03 3.82e-03 -4.54e-04 -4.00e-03 -1.55e-03 -1.31e-03
##          dffit cov.r cook.d      hat inf
## 1       1.51e-03 1.005 1.62e-07 0.001528
## 2       6.84e-03 1.005 3.34e-06 0.001624
## 3       8.48e-03 1.004 5.14e-06 0.000929
## 4      -1.23e-02 1.004 1.08e-05 0.000951
## 5      -2.15e-03 1.005 3.29e-07 0.001760
## 6       1.53e-02 1.005 1.68e-05 0.001910
## 7       9.99e-03 1.004 7.13e-06 0.000852
## 8      -1.68e-03 1.005 2.02e-07 0.001408
## 9       3.21e-02 1.000 7.37e-05 0.000808
## 10     -1.07e-02 1.030 8.15e-06 0.025599 *
## 11     -6.48e-03 1.004 3.00e-06 0.000772
## 12     -9.49e-04 1.004 6.43e-08 0.001196
## 13     3.14e-02 1.005 7.05e-05 0.003123
## 14     1.51e-03 1.005 1.62e-07 0.001528
## 15     6.84e-03 1.005 3.34e-06 0.001624
## 16     8.48e-03 1.004 5.14e-06 0.000929
## 17     -1.23e-02 1.004 1.08e-05 0.000951
## 18     -2.15e-03 1.005 3.29e-07 0.001760
## 19     1.53e-02 1.005 1.68e-05 0.001910
## 20     9.99e-03 1.004 7.13e-06 0.000852
## 21     -1.68e-03 1.005 2.02e-07 0.001408
## 22     3.21e-02 1.000 7.37e-05 0.000808
## 23     -1.07e-02 1.030 8.15e-06 0.025599 *
## 24     -6.48e-03 1.004 3.00e-06 0.000772
## 25     -9.49e-04 1.004 6.43e-08 0.001196
## 26     3.14e-02 1.005 7.05e-05 0.003123
## 27     1.35e-02 1.004 1.29e-05 0.001479
## 28     3.25e-02 1.004 7.56e-05 0.002003
## 29     -1.47e-02 1.005 1.54e-05 0.001730
## 30     5.28e-02 1.003 1.99e-04 0.003036
## 31     -8.68e-03 1.006 5.38e-06 0.002961
## 32     -9.79e-02 0.996 6.84e-04 0.003099
## 33     -1.97e-02 1.008 2.78e-05 0.004865
## 34     3.74e-02 1.002 9.98e-05 0.001761
## 35     3.15e-03 1.004 7.08e-07 0.001088
## 36     3.01e-02 1.005 6.46e-05 0.002991
## 37     -1.00e-02 1.007 7.15e-06 0.004177
## 38     -1.33e-01 0.994 1.26e-03 0.004275
## 39     -4.60e-02 1.004 1.51e-04 0.003105
## 40     4.55e-02 0.995 1.48e-04 0.000779
## 41     7.30e-02 0.991 3.81e-04 0.001259
## 42     -2.89e-02 1.007 5.99e-05 0.004230
## 43     -1.89e-02 1.017 2.56e-05 0.013457 *
## 44     1.67e-02 1.007 2.00e-05 0.003862
## 45     -8.31e-03 1.010 4.93e-06 0.006545 *
## 46     7.07e-03 1.004 3.57e-06 0.001230

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## 47  3.17e-02 1.001 7.17e-05 0.000899
## 48  2.04e-03 1.005 2.96e-07 0.001314
## 49  3.08e-03 1.005 6.76e-07 0.001418
## 50  7.10e-03 1.004 3.60e-06 0.001221
## 51  8.07e-03 1.004 4.65e-06 0.001296
## 52  1.19e-02 1.007 1.01e-05 0.003560
## 53  -1.63e-03 1.004 1.89e-07 0.001240
## 54  1.00e-02 1.005 7.20e-06 0.001776
## 55  -7.53e-03 1.005 4.05e-06 0.001711
## 56  -1.53e-02 1.005 1.66e-05 0.001772
## 57  -7.45e-03 1.005 3.96e-06 0.001666
## 58  -2.25e-02 1.004 3.62e-05 0.001763
## 59  -6.80e-03 1.005 3.30e-06 0.001456
## 60  -1.60e-02 1.004 1.84e-05 0.001404
## 61  -2.34e-03 1.004 3.93e-07 0.001221
## 62  6.51e-02 1.009 3.03e-04 0.007827
## 63  4.24e-03 1.005 1.28e-06 0.001470
## 64  -1.14e-03 1.005 9.32e-08 0.001676
## 65  -2.21e-02 1.005 3.50e-05 0.002618
## 66  -8.98e-03 1.006 5.76e-06 0.002762
## 67  -9.15e-03 1.005 5.98e-06 0.001484
## 68  9.91e-04 1.006 7.02e-08 0.002455
## 69  4.62e-03 1.004 1.53e-06 0.001296
## 70  3.68e-02 1.014 9.70e-05 0.010721 *
## 71  4.28e-03 1.007 1.31e-06 0.004056
## 72  -8.73e-03 1.004 5.45e-06 0.000866
## 73  -1.29e-02 1.004 1.19e-05 0.001059
## 74  -3.13e-02 1.005 6.98e-05 0.002536
## 75  2.57e-02 1.006 4.71e-05 0.003538
## 76  -1.03e-01 1.015 7.57e-04 0.014251 *
## 77  2.87e-02 1.006 5.88e-05 0.003708
## 78  1.52e-02 1.003 1.66e-05 0.001003
## 79  1.34e-03 1.004 1.28e-07 0.000960
## 80  -1.03e-01 0.999 7.61e-04 0.004050
## 81  1.08e-02 1.004 8.26e-06 0.001187
## 82  -3.78e-03 1.005 1.02e-06 0.001470
## 83  2.85e-02 1.006 5.80e-05 0.003848
## 84  3.67e-02 1.002 9.62e-05 0.001477
## 85  -1.03e-02 1.004 7.53e-06 0.000779
## 86  -1.25e-02 1.004 1.12e-05 0.001248
## 87  1.12e-03 1.005 8.92e-08 0.001572
## 88  -6.27e-03 1.005 2.81e-06 0.001493
## 89  4.83e-02 1.000 1.67e-04 0.001662
## 90  8.68e-01 0.467 5.10e-02 0.003078 *
## 91  8.74e-03 1.004 5.46e-06 0.000774
## 92  7.79e-03 1.004 4.33e-06 0.001049
## 93  -4.56e-05 1.006 1.49e-10 0.002672
## 94  -2.65e-02 1.003 5.02e-05 0.001467
## 95  -6.18e-03 1.007 2.73e-06 0.004087
## 96  -2.22e-02 1.004 3.53e-05 0.001531
## 97  1.67e-01 0.976 2.00e-03 0.002996 *
## 98  -3.54e-02 1.005 8.95e-05 0.003232
## 99  1.13e-02 1.003 9.05e-06 0.000745
## 100 -4.48e-02 1.004 1.43e-04 0.002978

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## 101 -1.20e-01 0.994 1.03e-03 0.003624
## 102 4.05e-01 0.849 1.16e-02 0.003099 *
## 103 1.53e-01 0.983 1.67e-03 0.003253 *
## 104 3.44e-02 1.005 8.44e-05 0.002937
## 105 -1.03e-03 1.005 7.53e-08 0.002191
## 106 1.37e-01 0.987 1.33e-03 0.003153 *
## 107 -9.22e-04 1.005 6.07e-08 0.001334
## 108 1.51e-02 1.004 1.64e-05 0.001164
## 109 -2.55e-03 1.004 4.66e-07 0.000927
## 110 3.40e-03 1.004 8.26e-07 0.001067
## 111 1.91e-02 1.004 2.60e-05 0.001240
## 112 -9.75e-03 1.004 6.79e-06 0.000971
## 113 5.96e-03 1.004 2.54e-06 0.001005
## 114 -1.55e-02 1.016 1.71e-05 0.012774 *
## 115 2.09e-02 1.007 3.13e-05 0.003819
## 116 -6.43e-03 1.004 2.96e-06 0.000936
## 117 7.96e-03 1.004 4.53e-06 0.000813
## 118 -8.21e-03 1.004 4.82e-06 0.001298
## 119 -7.34e-02 1.002 3.85e-04 0.003440
## 120 2.90e-03 1.005 5.99e-07 0.001293
## 121 1.19e-02 1.004 1.02e-05 0.001380
## 122 7.27e-04 1.005 3.78e-08 0.001470
## 123 -3.03e-02 1.002 6.55e-05 0.001361
## 124 1.66e-02 1.006 1.97e-05 0.002610
## 125 5.41e-03 1.004 2.09e-06 0.001070
## 126 -5.20e-02 1.015 1.93e-04 0.012709 *
## 127 -8.14e-03 1.004 4.73e-06 0.001245
## 128 1.32e-03 1.004 1.24e-07 0.000929
## 129 1.76e-02 1.004 2.20e-05 0.001554
## 130 2.13e-02 1.004 3.23e-05 0.001554
## 131 7.53e-03 1.004 4.05e-06 0.000853
## 132 -2.21e-02 1.003 3.50e-05 0.001280
## 133 -3.19e-03 1.007 7.29e-07 0.003656
## 134 2.66e-02 1.004 5.05e-05 0.001986
## 135 7.75e-03 1.005 4.29e-06 0.001522
## 136 6.09e-03 1.005 2.65e-06 0.001492
## 137 -8.09e-03 1.004 4.68e-06 0.000765
## 138 8.38e-02 1.017 5.02e-04 0.015081 *
## 139 -5.63e-03 1.004 2.27e-06 0.000891
## 140 -8.82e-03 1.004 5.56e-06 0.000891
## 141 -2.74e-02 1.002 5.35e-05 0.001076
## 142 2.04e-02 1.006 2.97e-05 0.002936
## 143 -2.88e-02 1.002 5.92e-05 0.001202
## 144 1.04e-02 1.006 7.79e-06 0.002514
## 145 1.66e-04 1.005 1.97e-09 0.001770
## 146 1.11e-02 1.004 8.85e-06 0.000974
## 147 1.65e-02 1.004 1.95e-05 0.001114
## 148 -4.35e-03 1.004 1.35e-06 0.000882
## 149 -1.42e-02 1.003 1.45e-05 0.000818
## 150 2.65e-02 1.006 5.02e-05 0.003244
## 151 3.40e-03 1.004 8.26e-07 0.001064
## 152 1.05e-02 1.005 7.87e-06 0.001516
## 153 9.99e-03 1.004 7.13e-06 0.001353
## 154 -1.89e-02 1.004 2.54e-05 0.001499

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## 155 -1.32e-02 1.004 1.24e-05 0.001110
## 156 -3.94e-03 1.004 1.11e-06 0.000792
## 157 -1.23e-02 1.004 1.08e-05 0.000852
## 158 -5.79e-02 1.049 2.39e-04 0.043980 *
## 159 -2.75e-02 1.005 5.39e-05 0.002973
## 160 -2.47e-02 1.005 4.37e-05 0.002381
## 161 -2.43e-03 1.007 4.22e-07 0.003730
## 162 1.91e-02 1.002 2.61e-05 0.000752
## 163 -6.96e-03 1.004 3.46e-06 0.001241
## 164 2.22e-01 0.965 3.51e-03 0.003722 *
## 165 3.90e-03 1.005 1.09e-06 0.001315
## 166 1.09e-02 1.004 8.50e-06 0.001038
## 167 -2.34e-02 1.004 3.91e-05 0.001675
## 168 -9.67e-02 0.999 6.67e-04 0.003608
## 169 -4.72e-03 1.004 1.59e-06 0.000829
## 170 -2.20e-02 1.007 3.47e-05 0.004024
## 171 6.67e-04 1.007 3.18e-08 0.003750
## 172 -3.73e-04 1.005 9.96e-09 0.001264
## 173 -1.36e-02 1.004 1.31e-05 0.001217
## 174 2.01e-02 1.007 2.88e-05 0.003708
## 175 2.40e-02 1.003 4.13e-05 0.001240
## 176 1.07e-02 1.004 8.20e-06 0.001415
## 177 -9.79e-02 1.029 6.85e-04 0.025800 *
## 178 1.87e-02 1.005 2.49e-05 0.002093
## 179 -1.54e-02 1.003 1.70e-05 0.000842
## 180 1.34e-02 1.003 1.29e-05 0.000852
## 181 1.81e-02 1.003 2.34e-05 0.000819
## 182 -7.48e-03 1.004 3.99e-06 0.001065
## 183 1.87e-02 1.004 2.49e-05 0.001321
## 184 5.57e-03 1.004 2.22e-06 0.001244
## 185 2.15e-02 1.004 3.31e-05 0.001395
## 186 -3.05e-03 1.004 6.67e-07 0.001058
## 187 -8.76e-04 1.005 5.49e-08 0.001362
## 188 -5.74e-03 1.006 2.35e-06 0.002565
## 189 -1.11e-01 0.993 8.87e-04 0.002950
## 190 -3.63e-03 1.004 9.42e-07 0.000938
## 191 2.15e-02 1.004 3.32e-05 0.001801
## 192 6.86e-03 1.007 3.36e-06 0.003334
## 193 1.28e-02 1.004 1.17e-05 0.001526
## 194 3.28e-04 1.004 7.69e-09 0.001215
## 195 -2.98e-02 1.006 6.35e-05 0.003608
## 196 -3.20e-02 1.006 7.30e-05 0.003608
## 197 -5.42e-03 1.007 2.10e-06 0.003708
## 198 3.34e-03 1.009 7.96e-07 0.005535
## 199 2.49e-02 1.007 4.44e-05 0.003802
## 200 -5.41e-03 1.004 2.09e-06 0.000899
## 201 2.05e-02 1.007 3.01e-05 0.003962
## 202 -2.76e-02 1.002 5.43e-05 0.001005
## 203 -1.10e-01 0.993 8.68e-04 0.002993
## 204 -6.08e-03 1.005 2.64e-06 0.001435
## 205 1.70e-01 0.976 2.05e-03 0.002997 *
## 206 -2.40e-02 1.004 4.13e-05 0.001895
## 207 -9.62e-03 1.005 6.61e-06 0.001487
## 208 3.27e-02 1.003 7.62e-05 0.001814

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## 209  2.63e-03 1.005 4.94e-07 0.001475
## 210 -2.92e-03 1.005 6.08e-07 0.001444
## 211  1.60e-03 1.004 1.83e-07 0.000813
## 212  9.08e-03 1.005 5.89e-06 0.001967
## 213  2.07e-02 1.003 3.06e-05 0.000960
## 214  5.82e-02 0.999 2.42e-04 0.001922
## 215 -1.15e-02 1.005 9.47e-06 0.001772
## 216 -8.54e-03 1.004 5.21e-06 0.001395
## 217  6.15e-03 1.004 2.70e-06 0.000960
## 218 -1.90e-02 1.004 2.59e-05 0.001587
## 219  7.55e-02 1.002 4.07e-04 0.003638
## 220 -6.06e-03 1.005 2.62e-06 0.001501
## 221 -1.14e-02 1.004 9.36e-06 0.001483
## 222  1.90e-02 1.007 2.59e-05 0.003762
## 223 -1.29e-02 1.049 1.19e-05 0.043895 *
## 224 -3.21e-03 1.004 7.35e-07 0.001228
## 225  8.55e-03 1.004 5.23e-06 0.001290
## 226 -1.96e-02 1.006 2.76e-05 0.003449
## 227 -2.18e-02 1.003 3.39e-05 0.001079
## 228  6.17e-02 0.994 2.72e-04 0.001178
## 229  1.84e-02 1.003 2.41e-05 0.001009
## 230 -1.43e-02 1.004 1.46e-05 0.001211
## 231  6.59e-03 1.004 3.11e-06 0.001131
## 232  4.76e-03 1.005 1.62e-06 0.001319
## 233  1.52e-02 1.004 1.66e-05 0.001333
## 234  1.02e-02 1.005 7.49e-06 0.001991
## 235  7.17e-02 0.996 3.67e-04 0.001758
## 236 -1.92e-02 1.004 2.62e-05 0.001596
## 237  9.61e-02 1.014 6.60e-04 0.013264 *
## 238 -3.59e-02 1.003 9.23e-05 0.002108
## 239 -2.21e-02 1.003 3.47e-05 0.001244
## 240 -1.78e-02 1.004 2.27e-05 0.001182
## 241 -3.53e-02 1.004 8.91e-05 0.002269
## 242 -3.09e-02 1.004 6.81e-05 0.002383
## 243 -5.69e-03 1.004 2.31e-06 0.000807
## 244 -3.66e-04 1.005 9.57e-09 0.001547
## 245  3.09e-02 1.000 6.84e-05 0.000789
## 246 -1.92e-02 1.004 2.62e-05 0.001596
## 247 -2.40e-02 1.003 4.12e-05 0.001160
## 248 -2.43e-02 1.003 4.20e-05 0.001229
## 249 -4.25e-03 1.004 1.29e-06 0.001114
## 250  2.44e-03 1.004 4.26e-07 0.001059
## 251 -2.27e-02 1.003 3.67e-05 0.001114
## 252  1.42e-02 1.005 1.45e-05 0.001738
## 253 -1.46e-02 1.007 1.52e-05 0.003784
## 254  2.30e-02 1.003 3.79e-05 0.001254
## 255 -2.43e-02 1.003 4.21e-05 0.001496
## 256  1.10e-02 1.004 8.65e-06 0.001491
## 257  9.37e-04 1.004 6.28e-08 0.000745
## 258 -1.11e-02 1.005 8.77e-06 0.001739
## 259 -8.66e-03 1.004 5.36e-06 0.001059
## 260  3.09e-02 1.004 6.81e-05 0.002407
## 261 -6.05e-03 1.005 2.62e-06 0.001519
## 262  1.34e-02 1.004 1.28e-05 0.001169

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## 263 -8.94e-03 1.005 5.71e-06 0.001508
## 264 3.39e-02 1.003 8.22e-05 0.001752
## 265 -1.37e-03 1.007 1.34e-07 0.003609
## 266 -1.92e-02 1.004 2.64e-05 0.001355
## 267 -1.64e-02 1.003 1.91e-05 0.000866
## 268 1.78e-02 1.003 2.27e-05 0.000841
## 269 -1.83e-02 1.004 2.38e-05 0.001618
## 270 2.55e-02 1.006 4.64e-05 0.003760
## 271 2.54e-03 1.004 4.61e-07 0.001232
## 272 2.46e-02 1.006 4.34e-05 0.003732
## 273 6.45e-03 1.006 2.97e-06 0.002320
## 274 5.54e-03 1.004 2.19e-06 0.001165
## 275 2.35e-02 1.005 3.95e-05 0.002237
## 276 9.70e-05 1.004 6.72e-10 0.001189
## 277 -1.18e-02 1.004 9.89e-06 0.000952
## 278 1.34e-02 1.004 1.28e-05 0.001169
## 279 1.77e-02 1.004 2.23e-05 0.001412
## 280 -2.92e-03 1.004 6.09e-07 0.001258
## 281 -3.63e-03 1.004 9.39e-07 0.001049
## 282 -3.51e-04 1.005 8.79e-09 0.001303
## 283 4.27e-03 1.004 1.30e-06 0.000760
## 284 -6.84e-03 1.004 3.34e-06 0.000952
## 285 -2.90e-04 1.005 6.02e-09 0.001305
## 286 -1.05e-02 1.004 7.94e-06 0.000745
## 287 1.63e-02 1.004 1.89e-05 0.001249
## 288 -9.23e-02 0.999 6.08e-04 0.003584
## 289 -5.25e-03 1.004 1.97e-06 0.001186
## 290 5.15e-02 1.001 1.89e-04 0.001934
## 291 -1.08e-02 1.004 8.29e-06 0.001155
## 292 4.51e-02 1.000 1.46e-04 0.001362
## 293 1.11e-02 1.004 8.83e-06 0.001305
## 294 -1.83e-02 1.003 2.40e-05 0.001058
## 295 -6.21e-03 1.005 2.75e-06 0.001441
## 296 -9.50e-03 1.004 6.45e-06 0.000894
## 297 1.50e-02 1.004 1.60e-05 0.001237
## 298 -1.16e-02 1.004 9.65e-06 0.000891
## 299 1.02e-03 1.005 7.39e-08 0.001654
## 300 -2.17e-02 1.004 3.36e-05 0.001803
## 301 9.37e-03 1.004 6.27e-06 0.001169
## 302 -1.35e-02 1.004 1.29e-05 0.001437
## 303 8.75e-03 1.004 5.47e-06 0.000808
## 304 1.38e-03 1.004 1.36e-07 0.000776
## 305 -1.26e-02 1.004 1.14e-05 0.001421
## 306 6.18e-03 1.004 2.73e-06 0.000970
## 307 -8.26e-03 1.006 4.88e-06 0.003270
## 308 -1.28e-04 1.005 1.18e-09 0.001448
## 309 8.31e-03 1.004 4.94e-06 0.000921
## 310 -7.43e-03 1.004 3.95e-06 0.001230
## 311 1.29e-02 1.005 1.18e-05 0.002106
## 312 -3.25e-02 1.002 7.53e-05 0.001265
## 313 3.52e-03 1.004 8.87e-07 0.001187
## 314 -5.91e-03 1.005 2.49e-06 0.001563
## 315 -8.70e-03 1.004 5.41e-06 0.001028
## 316 2.86e-02 1.005 5.85e-05 0.002499

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## 317  1.08e-02 1.004 8.27e-06 0.001171
## 318 -9.63e-03 1.005 6.62e-06 0.001680
## 319  9.74e-02 1.001 6.78e-04 0.004571
## 320  2.07e-02 1.003 3.06e-05 0.000960
## 321  2.77e-03 1.007 5.49e-07 0.003461
## 322  1.34e-01 0.982 1.27e-03 0.002432 *
## 323 -1.23e-02 1.007 1.08e-05 0.003662
## 324 -7.93e-02 1.003 4.49e-04 0.004561
## 325  6.40e-02 1.005 2.92e-04 0.004370
## 326  3.50e-04 1.004 8.77e-09 0.001203
## 327 -3.34e-03 1.005 7.99e-07 0.001642
## 328  2.78e-03 1.004 5.53e-07 0.001160
## 329  1.81e-02 1.005 2.35e-05 0.002014
## 330 -6.63e-03 1.004 3.14e-06 0.001215
## 331 -4.42e-03 1.007 1.39e-06 0.003579
## 332  2.23e-02 1.006 3.55e-05 0.002888
## 333  1.51e-02 1.007 1.63e-05 0.003757
## 334  2.31e-02 1.007 3.80e-05 0.003762
## 335 -6.25e-03 1.006 2.79e-06 0.002425
## 336  1.08e-02 1.004 8.31e-06 0.001160
## 337  1.52e-03 1.005 1.65e-07 0.001461
## 338  3.25e-02 1.006 7.54e-05 0.003631
## 339 -8.56e-03 1.005 5.23e-06 0.001475
## 340 -1.71e-02 1.004 2.09e-05 0.001488
## 341 -6.67e-02 1.016 3.18e-04 0.013435 *
## 342 -3.72e-03 1.004 9.87e-07 0.000852
## 343 -5.55e-03 1.005 2.20e-06 0.001461
## 344  1.63e-03 1.004 1.91e-07 0.000866
## 345  1.53e-02 1.008 1.66e-05 0.004547
## 346  2.71e-02 1.003 5.24e-05 0.001219
## 347  1.37e-02 1.004 1.35e-05 0.001135
## 348 -2.00e-02 1.004 2.85e-05 0.001422
## 349 -3.87e-02 1.002 1.07e-04 0.001541
## 350  5.42e-03 1.005 2.10e-06 0.001650
## 351 -2.40e-02 1.003 4.10e-05 0.001454
## 352 -6.76e-02 1.029 3.27e-04 0.026043 *
## 353 -2.16e-02 1.030 3.35e-05 0.026187 *
## 354 -1.41e-02 1.004 1.42e-05 0.001444
## 355  2.76e-02 1.003 5.44e-05 0.001579
## 356 -1.31e-02 1.003 1.22e-05 0.000882
## 357 -2.23e-03 1.005 3.54e-07 0.001916
## 358 -1.39e-01 0.987 1.37e-03 0.003176 *
## 359 -6.28e-03 1.004 2.81e-06 0.001039
## 360  1.02e-02 1.004 7.40e-06 0.001380
## 361 -3.43e-03 1.005 8.38e-07 0.001332
## 362  1.71e-02 1.030 2.10e-05 0.025682 *
## 363 -1.52e-02 1.004 1.66e-05 0.001184
## 364 -2.85e-02 1.002 5.79e-05 0.001234
## 365 -1.11e-02 1.004 8.85e-06 0.000933
## 366 -1.08e-02 1.004 8.28e-06 0.000803
## 367 -2.85e-03 1.004 5.81e-07 0.000798
## 368  3.48e-03 1.004 8.64e-07 0.000905
## 369 -1.07e-02 1.004 8.24e-06 0.001064
## 370 -8.92e-02 0.998 5.68e-04 0.003052

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## 371  2.73e-02 1.005 5.32e-05 0.002924
## 372  8.57e-04 1.004 5.24e-08 0.001126
## 373  5.00e-02 1.008 1.79e-04 0.005958
## 374  -7.27e-03 1.007 3.77e-06 0.003537
## 375  2.56e-02 1.006 4.68e-05 0.003779
## 376  -7.75e-03 1.004 4.29e-06 0.000945
## 377  -1.19e-02 1.004 1.02e-05 0.001174
## 378  -2.48e-03 1.004 4.40e-07 0.000927
## 379  5.48e-03 1.004 2.15e-06 0.001057
## 380  6.30e-03 1.004 2.84e-06 0.001259
## 381  6.19e-04 1.004 2.74e-08 0.000994
## 382  2.30e-02 1.008 3.77e-05 0.004864
## 383  -1.59e-01 0.990 1.79e-03 0.004530 *
## 384  4.32e-03 1.004 1.33e-06 0.000978
## 385  8.59e-03 1.004 5.27e-06 0.001182
## 386  6.30e-03 1.004 2.84e-06 0.001259
## 387  -4.92e-03 1.004 1.73e-06 0.000959
## 388  -1.76e-02 1.003 2.21e-05 0.000829
## 389  1.09e-02 1.005 8.43e-06 0.001615
## 390  2.12e-02 1.004 3.22e-05 0.001952
## 391  -7.86e-03 1.005 4.41e-06 0.001435
## 392  5.22e-02 1.004 1.94e-04 0.003441
## 393  5.60e-03 1.005 2.24e-06 0.001528
## 394  2.31e-02 1.002 3.83e-05 0.000800
## 395  6.08e-02 1.005 2.64e-04 0.004228
## 396  -5.32e-03 1.005 2.02e-06 0.001468
## 397  5.78e-04 1.005 2.38e-08 0.001551
## 398  3.30e-02 1.000 7.78e-05 0.000943
## 399  -7.15e-03 1.004 3.66e-06 0.000907
## 400  -3.37e-03 1.006 8.09e-07 0.003052
## 401  -1.12e-02 1.005 9.03e-06 0.002269
## 402  2.80e-02 1.008 5.61e-05 0.004777
## 403  8.34e-03 1.005 4.97e-06 0.001462
## 404  1.54e-02 1.007 1.70e-05 0.003598
## 405  2.66e-02 1.007 5.05e-05 0.004275
## 406  -6.75e-03 1.004 3.26e-06 0.000836
## 407  -2.22e-02 1.003 3.53e-05 0.000960
## 408  1.07e-02 1.004 8.20e-06 0.001126
## 409  -8.38e-03 1.004 5.01e-06 0.001249
## 410  -3.53e-02 1.006 8.88e-05 0.003708
## 411  6.51e-02 0.992 3.03e-04 0.001110
## 412  -3.52e-04 1.004 8.83e-09 0.001070
## 413  -2.03e-04 1.004 2.96e-09 0.001065
## 414  3.30e-04 1.005 7.76e-09 0.001583
## 415  -2.22e-02 1.003 3.52e-05 0.001354
## 416  4.07e-03 1.004 1.18e-06 0.001269
## 417  -3.04e-02 1.003 6.62e-05 0.001713
## 418  6.10e-03 1.005 2.66e-06 0.001362
## 419  -1.28e-02 1.004 1.17e-05 0.001230
## 420  9.11e-03 1.005 5.93e-06 0.001487
## 421  -4.71e-03 1.004 1.59e-06 0.001276
## 422  2.47e-02 1.003 4.35e-05 0.001112
## 423  -6.69e-03 1.004 3.20e-06 0.001302
## 424  -1.67e-02 1.004 1.99e-05 0.001474

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## 425 -4.91e-03 1.007 1.72e-06 0.003686
## 426 2.05e-02 1.005 3.01e-05 0.002660
## 427 -3.97e-03 1.008 1.13e-06 0.004790
## 428 -6.46e-03 1.005 2.98e-06 0.002202
## 429 -1.14e-02 1.005 9.28e-06 0.001821
## 430 1.20e-06 1.005 1.02e-13 0.001591
## 431 1.92e-02 1.004 2.62e-05 0.001617
## 432 4.10e-03 1.007 1.20e-06 0.003477
## 433 -1.90e-02 1.005 2.58e-05 0.002389
## 434 -1.82e-02 1.004 2.36e-05 0.001303
## 435 8.45e-03 1.006 5.10e-06 0.002620
## 436 -1.52e-02 1.005 1.66e-05 0.002352
## 437 2.49e-03 1.004 4.43e-07 0.001110
## 438 -1.08e-01 0.997 8.35e-04 0.003654
## 439 1.58e-02 1.005 1.79e-05 0.001832
## 440 -3.84e-02 1.006 1.06e-04 0.003785
## 441 -7.79e-03 1.004 4.34e-06 0.000767
## 442 -7.94e-03 1.006 4.50e-06 0.002398
## 443 -1.30e-02 1.004 1.21e-05 0.001159
## 444 1.36e-02 1.003 1.33e-05 0.000836
## 445 -1.85e-02 1.003 2.44e-05 0.001028
## 446 -1.22e-02 1.005 1.07e-05 0.001773
## 447 1.46e-02 1.005 1.52e-05 0.001717
## 448 1.46e-02 1.004 1.53e-05 0.001529
## 449 -2.14e-02 1.002 3.28e-05 0.000803
## 450 -3.20e-03 1.004 7.30e-07 0.000927
## 451 -3.90e-03 1.004 1.09e-06 0.000790
## 452 -1.14e-02 1.004 9.33e-06 0.001211
## 453 -1.46e-02 1.004 1.53e-05 0.001147
## 454 -1.23e-01 0.991 1.08e-03 0.003175
## 455 2.13e-03 1.004 3.24e-07 0.001259
## 456 -8.25e-03 1.007 4.86e-06 0.004228
## 457 1.38e-03 1.004 1.36e-07 0.000978
## 458 3.45e-02 1.005 8.51e-05 0.002727
## 459 -1.76e-02 1.003 2.22e-05 0.001070
## 460 -2.80e-03 1.005 5.58e-07 0.001311
## 461 2.41e-04 1.004 4.14e-09 0.000858
## 462 2.19e-02 1.006 3.43e-05 0.003384
## 463 -1.09e-02 1.004 8.49e-06 0.000912
## 464 -1.02e-02 1.004 7.42e-06 0.001443
## 465 7.42e-03 1.004 3.94e-06 0.001207
## 466 3.31e-02 0.999 7.84e-05 0.000783
## 467 -2.51e-02 1.002 4.48e-05 0.001028
## 468 -6.81e-03 1.004 3.31e-06 0.000850
## 469 1.39e-02 1.004 1.39e-05 0.001219
## 470 -1.02e-02 1.004 7.38e-06 0.001059
## 471 8.69e-03 1.005 5.39e-06 0.001518
## 472 1.21e-03 1.004 1.04e-07 0.000779
## 473 1.57e-02 1.005 1.75e-05 0.002066
## 474 6.02e-04 1.004 2.59e-08 0.000929
## 475 1.05e-02 1.005 7.91e-06 0.001518
## 476 -1.71e-02 1.004 2.08e-05 0.001567
## 477 1.53e-02 1.005 1.66e-05 0.001796
## 478 -5.02e-03 1.004 1.80e-06 0.001278

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## 479 -1.20e-02 1.004 1.03e-05 0.001352
## 480 -1.89e-02 1.005 2.55e-05 0.002243
## 481 2.53e-03 1.004 4.56e-07 0.001189
## 482 -5.87e-03 1.004 2.46e-06 0.000786
## 483 -8.90e-03 1.004 5.66e-06 0.000981
## 484 -3.70e-02 1.049 9.77e-05 0.043884 *
## 485 -3.74e-03 1.004 1.00e-06 0.000987
## 486 -1.20e-02 1.004 1.03e-05 0.001352
## 487 -4.95e-03 1.004 1.75e-06 0.001212
## 488 -6.15e-03 1.005 2.70e-06 0.001837
## 489 -4.29e-04 1.004 1.32e-08 0.000956
## 490 1.36e-02 1.004 1.33e-05 0.000996
## 491 3.23e-02 1.001 7.46e-05 0.001147
## 492 1.64e-02 1.003 1.91e-05 0.000915
## 493 3.60e-03 1.004 9.24e-07 0.001174
## 494 1.00e-02 1.004 7.14e-06 0.001364
## 495 -8.58e-03 1.007 5.26e-06 0.003553
## 496 3.96e-03 1.049 1.12e-06 0.043943 *
## 497 1.15e-02 1.005 9.49e-06 0.001923
## 498 -1.59e-02 1.004 1.82e-05 0.001612
## 499 -1.80e-02 1.004 2.30e-05 0.001604
## 500 -1.29e-02 1.004 1.19e-05 0.001528
## 501 -4.48e-03 1.006 1.43e-06 0.002808
## 502 9.52e-04 1.005 6.47e-08 0.001508
## 503 -4.57e-03 1.008 1.49e-06 0.004505
## 504 -9.93e-03 1.005 7.04e-06 0.001550
## 505 1.24e-02 1.004 1.09e-05 0.001565
## 506 -1.43e-02 1.005 1.47e-05 0.002386
## 507 3.95e-02 1.004 1.11e-04 0.002384
## 508 2.07e-02 1.006 3.06e-05 0.002781
## 509 -1.83e-02 1.006 2.38e-05 0.003336
## 510 1.00e-02 1.006 7.19e-06 0.002678
## 511 1.03e-02 1.004 7.65e-06 0.001094
## 512 8.66e-03 1.005 5.36e-06 0.002119
## 513 -2.97e-02 1.006 6.30e-05 0.003729
## 514 -7.66e-03 1.004 4.19e-06 0.001296
## 515 -3.25e-03 1.004 7.53e-07 0.000782
## 516 -1.01e-02 1.004 7.31e-06 0.000813
## 517 3.70e-03 1.004 9.79e-07 0.001226
## 518 -2.35e-02 1.003 3.96e-05 0.001059
## 519 -2.62e-02 1.003 4.90e-05 0.001459
## 520 -2.26e-02 1.004 3.65e-05 0.001459
## 521 1.62e-02 1.004 1.87e-05 0.001450
## 522 -2.30e-02 1.004 3.78e-05 0.001447
## 523 -2.43e-02 1.005 4.22e-05 0.002816
## 524 -4.79e-03 1.004 1.64e-06 0.000876
## 525 1.12e-03 1.006 9.00e-08 0.002284
## 526 2.05e-01 1.042 3.00e-03 0.040275 *
## 527 -1.56e-02 1.004 1.74e-05 0.001521
## 528 1.50e-01 0.982 1.61e-03 0.002992 *
## 529 -1.18e-02 1.004 9.99e-06 0.001459
## 530 -1.07e-02 1.004 8.23e-06 0.001395
## 531 -1.76e-02 1.004 2.22e-05 0.001471
## 532 2.60e-02 1.001 4.82e-05 0.000829

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## 533 -8.96e-04 1.005 5.73e-08 0.001531
## 534 -1.12e-02 1.004 8.95e-06 0.001407
## 535 7.99e-02 0.991 4.56e-04 0.001483
## 536 -1.30e-02 1.006 1.20e-05 0.002856
## 537 1.41e-01 0.992 1.42e-03 0.004124
## 538 6.68e-03 1.006 3.18e-06 0.003098
## 539 -2.95e-02 1.005 6.21e-05 0.003123
## 540 4.27e-01 0.855 1.29e-02 0.003570 *
## 541 3.55e-03 1.014 8.98e-07 0.010153 *
## 542 -2.95e-02 1.013 6.22e-05 0.010234 *
## 543 4.47e-02 1.013 1.42e-04 0.010206 *
## 544 -7.79e-02 1.004 4.33e-04 0.004546
## 545 -1.12e-01 1.010 8.97e-04 0.010200 *
## 546 -2.75e-01 0.998 5.41e-03 0.013306 *
## 547 -3.29e-02 1.013 7.74e-05 0.010123 *
## 548 -2.88e-02 1.013 5.92e-05 0.010185 *
## 549 -1.48e-01 1.011 1.56e-03 0.013079 *
## 550 5.11e-02 1.013 1.87e-04 0.010318 *
## 551 9.98e-03 1.008 7.11e-06 0.004472
## 552 6.68e-02 1.001 3.19e-04 0.002802
## 553 -2.57e-02 1.006 4.73e-05 0.003408
## 554 2.71e-01 0.931 5.22e-03 0.003036 *
## 555 1.46e-02 1.006 1.53e-05 0.003020
## 556 4.14e-01 0.835 1.21e-02 0.002952 *
## 557 -9.08e-03 1.004 5.89e-06 0.000843
## 558 7.86e-03 1.005 4.42e-06 0.001569
## 559 -1.07e-01 0.994 8.24e-04 0.003015
## 560 3.55e-03 1.014 8.98e-07 0.010153 *
## 561 2.32e-03 1.014 3.86e-07 0.010140 *
## 562 -1.13e-01 0.993 9.05e-04 0.003020
## 563 -2.00e-02 1.004 2.86e-05 0.001549
## 564 2.03e-01 1.004 2.94e-03 0.011762 *
## 565 -2.95e-02 1.013 6.22e-05 0.010234 *
## 566 -6.86e-03 1.005 3.37e-06 0.001493
## 567 -2.48e-02 1.006 4.38e-05 0.002962
## 568 3.48e-03 1.006 8.66e-07 0.002831
## 569 -1.98e-02 1.004 2.81e-05 0.001629
## 570 4.47e-02 1.013 1.42e-04 0.010206 *
## 571 -8.21e-02 1.011 4.82e-04 0.010189 *
## 572 -2.57e-02 1.006 4.73e-05 0.003408
## 573 2.71e-01 0.931 5.22e-03 0.003036 *
## 574 1.46e-02 1.006 1.53e-05 0.003020
## 575 4.14e-01 0.835 1.21e-02 0.002952 *
## 576 -9.08e-03 1.004 5.89e-06 0.000843
## 577 7.86e-03 1.005 4.42e-06 0.001569
## 578 -1.07e-01 0.994 8.24e-04 0.003015
## 579 3.55e-03 1.014 8.98e-07 0.010153 *
## 580 2.32e-03 1.014 3.86e-07 0.010140 *
## 581 -1.13e-01 0.993 9.05e-04 0.003020
## 582 -2.00e-02 1.004 2.86e-05 0.001549
## 583 2.03e-01 1.004 2.94e-03 0.011762 *
## 584 -2.95e-02 1.013 6.22e-05 0.010234 *
## 585 -6.86e-03 1.005 3.37e-06 0.001493
## 586 -2.48e-02 1.006 4.38e-05 0.002962

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## 587  3.48e-03 1.006 8.66e-07 0.002831
## 588 -1.98e-02 1.004 2.81e-05 0.001629
## 589  4.47e-02 1.013 1.42e-04 0.010206 *
## 590 -8.21e-02 1.011 4.82e-04 0.010189 *
## 591 -2.57e-02 1.006 4.73e-05 0.003408
## 592  2.71e-01 0.931 5.22e-03 0.003036 *
## 593  1.46e-02 1.006 1.53e-05 0.003020
## 594  4.14e-01 0.835 1.21e-02 0.002952 *
## 595 -9.08e-03 1.004 5.89e-06 0.000843
## 596  7.86e-03 1.005 4.42e-06 0.001569
## 597 -1.07e-01 0.994 8.24e-04 0.003015
## 598  3.55e-03 1.014 8.98e-07 0.010153 *
## 599  2.32e-03 1.014 3.86e-07 0.010140 *
## 600 -1.13e-01 0.993 9.05e-04 0.003020
## 601 -2.00e-02 1.004 2.86e-05 0.001549
## 602  2.03e-01 1.004 2.94e-03 0.011762 *
## 603 -2.95e-02 1.013 6.22e-05 0.010234 *
## 604 -6.86e-03 1.005 3.37e-06 0.001493
## 605 -2.48e-02 1.006 4.38e-05 0.002962
## 606  3.48e-03 1.006 8.66e-07 0.002831
## 607 -1.98e-02 1.004 2.81e-05 0.001629
## 608  4.47e-02 1.013 1.42e-04 0.010206 *
## 609 -8.21e-02 1.011 4.82e-04 0.010189 *
## 610 -2.57e-02 1.006 4.73e-05 0.003408
## 611  2.71e-01 0.931 5.22e-03 0.003036 *
## 612  1.46e-02 1.006 1.53e-05 0.003020
## 613  4.14e-01 0.835 1.21e-02 0.002952 *
## 614 -9.08e-03 1.004 5.89e-06 0.000843
## 615  7.86e-03 1.005 4.42e-06 0.001569
## 616 -1.07e-01 0.994 8.24e-04 0.003015
## 617  3.55e-03 1.014 8.98e-07 0.010153 *
## 618  2.32e-03 1.014 3.86e-07 0.010140 *
## 619 -1.13e-01 0.993 9.05e-04 0.003020
## 620 -2.00e-02 1.004 2.86e-05 0.001549
## 621  2.03e-01 1.004 2.94e-03 0.011762 *
## 622 -2.95e-02 1.013 6.22e-05 0.010234 *
## 623 -6.86e-03 1.005 3.37e-06 0.001493
## 624 -2.48e-02 1.006 4.38e-05 0.002962
## 625  3.48e-03 1.006 8.66e-07 0.002831
## 626 -1.98e-02 1.004 2.81e-05 0.001629
## 627  4.47e-02 1.013 1.42e-04 0.010206 *
## 628 -8.21e-02 1.011 4.82e-04 0.010189 *
## 629  9.90e-03 1.004 7.00e-06 0.001305
## 630 -1.40e-02 1.003 1.40e-05 0.000776
## 631  1.24e-02 1.004 1.11e-05 0.001305
## 632  9.53e-02 1.003 6.48e-04 0.005498
## 633  1.58e-02 1.003 1.79e-05 0.000982
## 634  3.54e-03 1.005 8.97e-07 0.001336
## 635 -8.32e-03 1.004 4.95e-06 0.000921
## 636  2.57e-03 1.004 4.73e-07 0.001094
## 637 -2.39e-02 1.004 4.09e-05 0.002113
## 638 -9.58e-03 1.004 6.56e-06 0.000960
## 639 -4.41e-03 1.006 1.39e-06 0.002606
## 640 -2.36e-02 1.004 3.98e-05 0.001508

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## 641 -1.26e-02 1.004 1.13e-05 0.001286
## 642 1.02e-02 1.005 7.46e-06 0.001582
## 643 1.90e-02 1.004 2.57e-05 0.001503
## 644 -1.28e-02 1.004 1.17e-05 0.000879
## 645 7.63e-02 0.992 4.16e-04 0.001462
## 646 -2.19e-02 1.002 3.43e-05 0.000899
## 647 -5.79e-03 1.004 2.40e-06 0.001265
## 648 -2.08e-02 1.003 3.10e-05 0.001249
## 649 1.69e-02 1.007 2.04e-05 0.003563
## 650 -8.12e-02 1.000 4.71e-04 0.003133
## 651 -1.06e-01 0.995 8.03e-04 0.003123
## 652 -1.50e-02 1.003 1.61e-05 0.000970
## 653 -9.20e-03 1.004 6.05e-06 0.000852
## 654 -4.69e-03 1.005 1.57e-06 0.001467
## 655 4.48e-03 1.004 1.43e-06 0.001078
## 656 2.18e-03 1.005 3.40e-07 0.001638
## 657 -7.32e-03 1.006 3.83e-06 0.003245
## 658 -1.98e-02 1.049 2.80e-05 0.043904 *
## 659 -2.76e-02 1.001 5.45e-05 0.000905
## 660 -2.39e-02 1.016 4.07e-05 0.012716 *
## 661 -1.97e-02 1.005 2.78e-05 0.002360
## 662 -1.40e-03 1.004 1.39e-07 0.000978
## 663 3.34e-02 1.002 7.98e-05 0.001255
## 664 1.87e-02 1.003 2.49e-05 0.001053
## 665 3.75e-02 1.033 1.01e-04 0.028599 *
## 666 4.28e-02 1.007 1.31e-04 0.005135
## 667 -3.99e-02 1.016 1.14e-04 0.012752 *
## 668 7.80e-03 1.004 4.34e-06 0.001362
## 669 -2.29e-03 1.004 3.73e-07 0.001020
## 670 7.25e-04 1.005 3.76e-08 0.001463
## 671 1.58e-03 1.004 1.78e-07 0.001231
## 672 1.42e-02 1.007 1.45e-05 0.003606
## 673 -3.47e-03 1.005 8.62e-07 0.001371
## 674 -3.95e-02 1.018 1.12e-04 0.014418 *
## 675 -9.96e-02 0.998 7.08e-04 0.003616
## 676 -9.52e-03 1.004 6.47e-06 0.000891
## 677 -8.51e-03 1.004 5.18e-06 0.001397
## 678 1.23e-02 1.004 1.08e-05 0.001544
## 679 9.26e-03 1.004 6.12e-06 0.001070
## 680 1.50e-02 1.004 1.61e-05 0.001342
## 681 -7.98e-02 1.000 4.54e-04 0.003230
## 682 -2.38e-02 1.003 4.04e-05 0.001147
## 683 -1.60e-02 1.003 1.83e-05 0.000820
## 684 -2.14e-02 1.003 3.27e-05 0.001077
## 685 5.60e-03 1.005 2.24e-06 0.001528
## 686 -2.34e-03 1.004 3.91e-07 0.000767
## 687 -2.34e-03 1.004 3.91e-07 0.000767
## 688 4.90e-03 1.004 1.72e-06 0.000756
## 689 -5.99e-03 1.005 2.56e-06 0.001364
## 690 -2.09e-03 1.005 3.12e-07 0.002135
## 691 -9.98e-02 0.996 7.10e-04 0.003175
## 692 1.31e-02 1.004 1.22e-05 0.000944
## 693 4.00e-02 1.006 1.14e-04 0.004013
## 694 2.23e-03 1.005 3.55e-07 0.001545

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## 695 -1.52e-02 1.004 1.65e-05 0.001665
## 696 -2.37e-03 1.004 4.01e-07 0.000865
## 697 -5.62e-03 1.007 2.26e-06 0.003686
## 698 1.56e-03 1.004 1.74e-07 0.001154
## 699 -2.28e-02 1.004 3.71e-05 0.001817
## 700 -1.48e-02 1.005 1.57e-05 0.002345
## 701 4.37e-03 1.004 1.36e-06 0.000882
## 702 -6.81e-03 1.004 3.31e-06 0.001040
## 703 1.02e-02 1.004 7.38e-06 0.001456
## 704 1.32e-02 1.050 1.24e-05 0.044090 *
## 705 -3.17e-02 1.003 7.19e-05 0.001664
## 706 -1.43e-03 1.005 1.45e-07 0.001273
## 707 4.22e-03 1.007 1.27e-06 0.003860
## 708 3.73e-03 1.004 9.93e-07 0.000938
## 709 -1.83e-02 1.003 2.39e-05 0.000882
## 710 1.58e-02 1.004 1.77e-05 0.001527
## 711 -1.24e-01 0.990 1.10e-03 0.003054 *
## 712 -5.39e-02 1.003 2.07e-04 0.002868
## 713 7.24e-02 1.029 3.75e-04 0.026060 *
## 714 8.48e-03 1.005 5.14e-06 0.001496
## 715 -4.36e-03 1.005 1.36e-06 0.001493
## 716 -2.67e-03 1.005 5.09e-07 0.001454
## 717 6.04e-04 1.005 2.61e-08 0.001570
## 718 -1.17e-01 0.994 9.72e-04 0.003425
## 719 -2.22e-02 1.004 3.54e-05 0.001583
## 720 -2.75e-02 1.003 5.41e-05 0.001504
## 721 -2.77e-03 1.005 5.49e-07 0.001582
## 722 6.19e-04 1.006 2.74e-08 0.002920
## 723 -1.03e-03 1.005 7.64e-08 0.001572
## 724 -3.09e-03 1.005 6.82e-07 0.001498
## 725 6.51e-04 1.005 3.02e-08 0.001420
## 726 -6.57e-03 1.005 3.08e-06 0.001484
## 727 8.03e-03 1.006 4.60e-06 0.002460
## 728 1.46e-03 1.006 1.52e-07 0.002472
## 729 -8.50e-02 1.002 5.16e-04 0.004147
## 730 -1.87e-02 1.007 2.49e-05 0.004417
## 731 -3.53e-03 1.004 8.91e-07 0.000899
## 732 3.13e-01 0.907 6.97e-03 0.003041 *
## 733 -1.09e-02 1.004 8.44e-06 0.001249
## 734 -1.22e-03 1.004 1.07e-07 0.001229
## 735 -3.80e-03 1.004 1.03e-06 0.001143
## 736 -1.62e-02 1.003 1.87e-05 0.000896
## 737 1.69e-02 1.007 2.04e-05 0.003595
## 738 7.71e-03 1.004 4.25e-06 0.001290
## 739 3.32e-02 1.002 7.86e-05 0.001248
## 740 -1.40e-02 1.003 1.40e-05 0.000933
## 741 7.86e-03 1.005 4.42e-06 0.001569
## 742 2.39e-02 1.005 4.08e-05 0.002207
## 743 -1.18e-01 0.992 9.93e-04 0.003099
## 744 -2.17e-02 1.004 3.36e-05 0.001755
## 745 5.58e-02 0.994 2.22e-04 0.000978
## 746 -1.08e-01 0.994 8.33e-04 0.003023
## 747 1.52e-02 1.004 1.64e-05 0.001673
## 748 2.31e-02 1.006 3.81e-05 0.002970

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## 749  2.53e-02 1.003 4.59e-05 0.001462
## 750  2.52e-04 1.004 4.54e-09 0.000866
## 751  1.69e-02 1.004 2.03e-05 0.001422
## 752  -1.78e-02 1.004 2.27e-05 0.001400
## 753  1.29e-02 1.005 1.18e-05 0.001680
## 754  -4.94e-04 1.005 1.74e-08 0.001477
## 755  -1.48e-03 1.006 1.56e-07 0.002385
## 756  -2.47e-03 1.005 4.35e-07 0.001600
## 757  -4.33e-03 1.006 1.34e-06 0.002796
## 758  1.91e-02 1.006 2.60e-05 0.003004
## 759  -1.53e-03 1.005 1.67e-07 0.001483
## 760  -2.22e-02 1.004 3.53e-05 0.001429
## 761  -1.13e-02 1.004 9.09e-06 0.000834
## 762  3.93e-03 1.005 1.10e-06 0.001518
## 763  -1.12e-02 1.004 8.94e-06 0.000952
## 764  -8.47e-03 1.005 5.13e-06 0.001677
## 765  -4.72e-03 1.004 1.59e-06 0.001269
## 766  3.05e-03 1.005 6.64e-07 0.001570
## 767  -1.81e-02 1.006 2.34e-05 0.002662
## 768  7.13e-03 1.005 3.63e-06 0.001790
## 769  3.04e-02 1.002 6.61e-05 0.001176
## 770  -1.59e-02 1.004 1.81e-05 0.001325
## 771  1.58e-01 0.981 1.79e-03 0.003165 *
## 772  5.74e-02 0.999 2.35e-04 0.001668
## 773  -3.17e-02 1.003 7.16e-05 0.001692
## 774  -2.15e-02 1.002 3.29e-05 0.000896
## 775  1.85e-02 1.004 2.46e-05 0.001452
## 776  8.75e-03 1.005 5.47e-06 0.001929
## 777  -6.65e-03 1.004 3.16e-06 0.001150
## 778  -6.80e-02 1.002 3.30e-04 0.003094
## 779  -1.22e-02 1.004 1.06e-05 0.001017
## 780  -6.87e-03 1.004 3.37e-06 0.001174
## 781  7.29e-03 1.004 3.80e-06 0.000780
## 782  -1.11e-01 0.994 8.81e-04 0.003185
## 783  -2.77e-02 1.006 5.49e-05 0.003608
## 784  7.10e-04 1.005 3.60e-08 0.001657
## 785  2.98e-02 1.003 6.34e-05 0.001439
## 786  -1.40e-02 1.004 1.40e-05 0.001398
## 787  -2.07e-02 1.003 3.05e-05 0.001182
## 788  1.34e-02 1.004 1.27e-05 0.001437
## 789  4.59e-03 1.004 1.50e-06 0.001293
## 790  9.92e-04 1.004 7.04e-08 0.000871
## 791  -3.34e-02 1.002 7.96e-05 0.001550
## 792  -4.77e-03 1.004 1.63e-06 0.000928
## 793  -2.56e-02 1.004 4.67e-05 0.001781
## 794  -1.05e-01 0.995 7.82e-04 0.003123
## 795  -1.72e-03 1.004 2.10e-07 0.000800
## 796  -2.53e-02 1.004 4.57e-05 0.001883
## 797  3.09e-02 1.003 6.81e-05 0.001685
## 798  3.56e-03 1.005 9.05e-07 0.001477
## 799  -2.93e-03 1.005 6.15e-07 0.001642
## 800  9.78e-03 1.004 6.84e-06 0.001135
## 801  1.05e-02 1.005 7.82e-06 0.001603
## 802  -4.00e-03 1.005 1.14e-06 0.001955

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## 803 -1.35e-01 0.987 1.30e-03 0.003027 *
## 804 -1.64e-02 1.004 1.91e-05 0.001561
## 805 -1.77e-02 1.004 2.25e-05 0.001630
## 806 -7.47e-03 1.005 3.99e-06 0.001492
## 807 -1.24e-01 0.990 1.10e-03 0.002970 *
## 808 -2.65e-02 1.004 5.02e-05 0.001810
## 809 1.12e-02 1.005 8.98e-06 0.001617
## 810 1.35e-02 1.004 1.30e-05 0.001416
## 811 1.11e-02 1.004 8.77e-06 0.000805
## 812 -3.25e-03 1.005 7.54e-07 0.001705
## 813 -1.94e-02 1.003 2.69e-05 0.000970
## 814 -5.82e-03 1.005 2.42e-06 0.002158
## 815 -3.50e-03 1.004 8.75e-07 0.001147
## 816 7.23e-03 1.004 3.74e-06 0.001124
## 817 1.55e-02 1.007 1.71e-05 0.003581
## 818 -1.75e-02 1.008 2.18e-05 0.004481
## 819 5.19e-03 1.017 1.92e-06 0.013054 *
## 820 -1.25e-01 0.993 1.12e-03 0.003595
## 821 -1.92e-02 1.007 2.63e-05 0.003883
## 822 -9.16e-05 1.008 6.00e-10 0.004493
## 823 -1.73e-02 1.007 2.14e-05 0.003598
## 824 -1.75e-02 1.004 2.18e-05 0.001271
## 825 4.97e-03 1.030 1.76e-06 0.025641 *
## 826 8.41e-03 1.005 5.06e-06 0.001796
## 827 2.37e-02 1.006 4.00e-05 0.003651
## 828 -2.71e-02 1.001 5.25e-05 0.000896
## 829 4.17e-02 0.999 1.24e-04 0.001064
## 830 3.29e-03 1.004 7.72e-07 0.001226
## 831 -3.61e-03 1.004 9.29e-07 0.000977
## 832 -8.76e-03 1.004 5.48e-06 0.001095
## 833 -8.76e-03 1.004 5.48e-06 0.001095
## 834 9.26e-03 1.004 6.13e-06 0.000985
## 835 -4.74e-03 1.004 1.60e-06 0.001260
## 836 1.73e-02 1.003 2.15e-05 0.000818
## 837 1.53e-01 0.985 1.67e-03 0.003495 *
## 838 9.70e-03 1.004 6.72e-06 0.001282
## 839 8.19e-02 0.990 4.78e-04 0.001446 *
## 840 1.28e-02 1.004 1.18e-05 0.001088
## 841 1.14e-02 1.003 9.21e-06 0.000756
## 842 -5.55e-03 1.004 2.20e-06 0.001296
## 843 2.49e-02 1.005 4.43e-05 0.002398
## 844 -1.03e-03 1.004 7.60e-08 0.000818
## 845 -3.63e-03 1.004 9.39e-07 0.001049
## 846 -1.95e-02 1.003 2.72e-05 0.000867
## 847 7.38e-03 1.004 3.90e-06 0.001131
## 848 -2.27e-02 1.003 3.67e-05 0.001114
## 849 -1.00e-02 1.004 7.20e-06 0.001464
## 850 7.69e-02 1.002 4.23e-04 0.003820
## 851 5.29e-02 1.005 2.00e-04 0.003792
## 852 4.15e-02 1.008 1.23e-04 0.005334
## 853 -4.82e-02 1.004 1.66e-04 0.002960
## 854 -1.04e-01 1.003 7.79e-04 0.005923
## 855 1.19e-02 1.004 1.02e-05 0.001077
## 856 -6.86e-03 1.004 3.36e-06 0.001364

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## 857 -1.45e-02 1.003 1.50e-05 0.000760
## 858 3.39e-03 1.004 8.21e-07 0.001015
## 859 1.63e-02 1.003 1.89e-05 0.000767
## 860 -8.52e-05 1.005 5.18e-10 0.001327
## 861 -4.94e-03 1.004 1.74e-06 0.000885
## 862 -6.47e-03 1.004 2.99e-06 0.001174
## 863 -1.76e-02 1.003 2.23e-05 0.000959
## 864 3.33e-02 1.032 7.92e-05 0.028445 *
## 865 1.50e-02 1.007 1.62e-05 0.003633
## 866 -9.74e-03 1.004 6.77e-06 0.001380
## 867 -1.13e-03 1.004 9.18e-08 0.000970
## 868 1.28e-03 1.004 1.16e-07 0.001147
## 869 1.83e-02 1.007 2.40e-05 0.003563
## 870 4.08e-03 1.005 1.19e-06 0.001565
## 871 -5.80e-03 1.004 2.40e-06 0.000822
## 872 1.45e-03 1.005 1.50e-07 0.001943
## 873 6.87e-03 1.005 3.37e-06 0.001565
## 874 -2.44e-02 1.002 4.24e-05 0.001012
## 875 -1.87e-02 1.003 2.50e-05 0.000970
## 876 -1.56e-02 1.003 1.74e-05 0.000908
## 877 1.99e-03 1.004 2.83e-07 0.001231
## 878 -1.51e-02 1.004 1.64e-05 0.001107
## 879 9.56e-04 1.008 6.52e-08 0.004547
## 880 -3.09e-02 1.002 6.81e-05 0.001422
## 881 -1.56e-02 1.004 1.73e-05 0.001545
## 882 -6.67e-03 1.005 3.18e-06 0.001517
## 883 -1.29e-02 1.003 1.18e-05 0.000836
## 884 6.25e-03 1.004 2.79e-06 0.001211
## 885 3.14e-02 1.002 7.02e-05 0.001236
## 886 1.44e-02 1.003 1.48e-05 0.000822
## 887 -9.16e-04 1.004 6.00e-08 0.000947
## 888 -1.28e-02 1.003 1.16e-05 0.000858
## 889 -8.63e-03 1.004 5.32e-06 0.001040
## 890 -2.90e-02 1.002 6.02e-05 0.001067
## 891 -1.48e-02 1.004 1.56e-05 0.001111
## 892 -7.85e-03 1.004 4.40e-06 0.000920
## 893 7.47e-03 1.004 3.99e-06 0.001196
## 894 1.64e-02 1.004 1.92e-05 0.001670
## 895 5.35e-03 1.004 2.05e-06 0.000985
## 896 -5.91e-03 1.005 2.50e-06 0.001547
## 897 -4.60e-03 1.004 1.51e-06 0.001282
## 898 -2.57e-02 1.006 4.73e-05 0.003408
## 899 2.71e-01 0.931 5.22e-03 0.003036 *
## 900 1.46e-02 1.006 1.53e-05 0.003020
## 901 4.14e-01 0.835 1.21e-02 0.002952 *
## 902 -9.08e-03 1.004 5.89e-06 0.000843
## 903 7.86e-03 1.005 4.42e-06 0.001569
## 904 -1.07e-01 0.994 8.24e-04 0.003015
## 905 3.55e-03 1.014 8.98e-07 0.010153 *
## 906 2.32e-03 1.014 3.86e-07 0.010140 *
## 907 -1.13e-01 0.993 9.05e-04 0.003020
## 908 -2.00e-02 1.004 2.86e-05 0.001549
## 909 2.03e-01 1.004 2.94e-03 0.011762 *
## 910 -2.95e-02 1.013 6.22e-05 0.010234 *

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## 911 -6.86e-03 1.005 3.37e-06 0.001493
## 912 -2.48e-02 1.006 4.38e-05 0.002962
## 913 3.48e-03 1.006 8.66e-07 0.002831
## 914 -1.98e-02 1.004 2.81e-05 0.001629
## 915 4.47e-02 1.013 1.42e-04 0.010206 *
## 916 -8.21e-02 1.011 4.82e-04 0.010189 *
## 917 -2.57e-02 1.006 4.73e-05 0.003408
## 918 2.71e-01 0.931 5.22e-03 0.003036 *
## 919 1.46e-02 1.006 1.53e-05 0.003020
## 920 4.14e-01 0.835 1.21e-02 0.002952 *
## 921 -9.08e-03 1.004 5.89e-06 0.000843
## 922 7.86e-03 1.005 4.42e-06 0.001569
## 923 -1.07e-01 0.994 8.24e-04 0.003015
## 924 3.55e-03 1.014 8.98e-07 0.010153 *
## 925 2.32e-03 1.014 3.86e-07 0.010140 *
## 926 -1.13e-01 0.993 9.05e-04 0.003020
## 927 -2.00e-02 1.004 2.86e-05 0.001549
## 928 2.03e-01 1.004 2.94e-03 0.011762 *
## 929 -2.95e-02 1.013 6.22e-05 0.010234 *
## 930 -6.86e-03 1.005 3.37e-06 0.001493
## 931 -2.48e-02 1.006 4.38e-05 0.002962
## 932 3.48e-03 1.006 8.66e-07 0.002831
## 933 -1.98e-02 1.004 2.81e-05 0.001629
## 934 4.47e-02 1.013 1.42e-04 0.010206 *
## 935 -8.21e-02 1.011 4.82e-04 0.010189 *
## 936 -9.54e-02 0.997 6.49e-04 0.003112
## 937 -2.64e-02 1.003 4.98e-05 0.001528
## 938 1.10e-02 1.005 8.65e-06 0.001688
## 939 -1.48e-01 0.986 1.56e-03 0.003450 *
## 940 -9.51e-02 0.996 6.46e-04 0.002813
## 941 7.77e-03 1.005 4.32e-06 0.001802
## 942 -9.28e-03 1.005 6.16e-06 0.001666
## 943 -1.12e-01 0.993 8.96e-04 0.003021
## 944 2.83e-03 1.005 5.74e-07 0.001659
## 945 -3.21e-03 1.005 7.37e-07 0.001492
## 946 6.41e-02 0.997 2.94e-04 0.001737
## 947 5.46e-03 1.005 2.13e-06 0.001466
## 948 -1.14e-02 1.004 9.28e-06 0.001439
## 949 -1.83e-02 1.004 2.39e-05 0.001432
## 950 -1.46e-02 1.005 1.53e-05 0.001686
## 951 -1.39e-03 1.005 1.37e-07 0.001479
## 952 -1.63e-02 1.004 1.89e-05 0.001429
## 953 -1.16e-01 0.992 9.55e-04 0.003029
## 954 -2.03e-02 1.004 2.95e-05 0.001689
## 955 -1.22e-01 0.989 1.06e-03 0.002824 *
## 956 1.56e-02 1.016 1.74e-05 0.012687 *
## 957 -1.06e-02 1.004 7.98e-06 0.000852
## 958 3.51e-02 1.016 8.80e-05 0.013001 *
## 959 7.60e-03 1.006 4.13e-06 0.002334
## 960 1.40e-01 0.986 1.40e-03 0.003123 *
## 961 1.76e-03 1.005 2.22e-07 0.001363
## 962 -1.51e-02 1.004 1.63e-05 0.001286
## 963 -1.00e-02 1.004 7.17e-06 0.000800
## 964 4.16e-01 0.859 1.22e-02 0.003495 *

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## 965 -1.77e-02 1.003 2.24e-05 0.000978
## 966 -2.16e-02 1.003 3.34e-05 0.001059
## 967 -7.61e-03 1.005 4.14e-06 0.001886
## 968 -1.51e-02 1.004 1.63e-05 0.001286
## 969 3.32e-01 0.897 7.81e-03 0.003090 *
## 970 7.66e-02 1.000 4.20e-04 0.003092
## 971 2.10e-02 1.004 3.17e-05 0.001801
## 972 -1.45e-02 1.003 1.51e-05 0.000809
## 973 2.26e-02 1.003 3.63e-05 0.001064
## 974 -8.20e-03 1.004 4.81e-06 0.000927
## 975 1.65e-02 1.004 1.93e-05 0.001431
## 976 8.15e-02 0.985 4.74e-04 0.001112 *
## 977 1.48e-02 1.004 1.56e-05 0.001219
## 978 6.45e-04 1.004 2.97e-08 0.000978
## 979 -6.22e-03 1.004 2.76e-06 0.000740
## 980 2.07e-02 1.003 3.06e-05 0.000897
## 981 1.46e-03 1.005 1.52e-07 0.001268
## 982 8.97e-03 1.004 5.75e-06 0.000882
## 983 2.38e-02 1.002 4.04e-05 0.000858
## 984 3.29e-03 1.007 7.73e-07 0.003529
## 985 -1.69e-02 1.003 2.04e-05 0.000789
## 986 2.15e-02 1.002 3.31e-05 0.000800
## 987 -2.25e-01 1.008 3.60e-03 0.015198 *
## 988 -3.06e-02 1.002 6.69e-05 0.001212
## 989 3.79e-01 0.883 1.01e-02 0.003521 *
## 990 -8.75e-03 1.004 5.47e-06 0.000841
## 991 3.76e-03 1.005 1.01e-06 0.001470
## 992 -3.10e-03 1.004 6.85e-07 0.001145
## 993 4.15e-03 1.004 1.23e-06 0.000902
## 994 4.85e-03 1.004 1.68e-06 0.000852
## 995 -1.65e-03 1.005 1.94e-07 0.001406
## 996 8.84e-03 1.005 5.58e-06 0.001632
## 997 -2.88e-03 1.007 5.92e-07 0.003741
## 998 -3.98e-02 1.005 1.13e-04 0.003518
## 999 3.39e-02 1.006 8.19e-05 0.003709
## 1000 4.44e-03 1.004 1.41e-06 0.000932
## 1001 -2.71e-02 1.001 5.25e-05 0.000896
## 1002 4.17e-02 0.999 1.24e-04 0.001064
## 1003 1.84e-02 1.004 2.43e-05 0.001540
## 1004 1.23e-02 1.004 1.08e-05 0.001544
## 1005 1.34e-02 1.003 1.29e-05 0.000852
## 1006 1.37e-02 1.003 1.33e-05 0.000897
## 1007 3.29e-03 1.004 7.72e-07 0.001226
## 1008 7.37e-03 1.005 3.88e-06 0.001531
## 1009 -3.61e-03 1.004 9.29e-07 0.000977
## 1010 -8.76e-03 1.004 5.48e-06 0.001095
## 1011 -1.53e-02 1.003 1.68e-05 0.000832
## 1012 -2.68e-02 1.003 5.13e-05 0.001408
## 1013 1.81e-02 1.003 2.34e-05 0.000819
## 1014 -7.48e-03 1.004 3.99e-06 0.001065
## 1015 -8.76e-03 1.004 5.48e-06 0.001095
## 1016 1.87e-02 1.004 2.49e-05 0.001321
## 1017 5.57e-03 1.004 2.22e-06 0.001244
## 1018 6.50e-03 1.004 3.02e-06 0.001064

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## 1019 6.84e-03 1.005 3.34e-06 0.001533
## 1020 7.99e-02 1.001 4.56e-04 0.003383
## 1021 -3.04e-02 1.004 6.61e-05 0.002054
## 1022 2.71e-01 0.931 5.22e-03 0.003036 *
## 1023 -2.73e-03 1.006 5.33e-07 0.003055
## 1024 4.14e-01 0.835 1.21e-02 0.002952 *
## 1025 -1.14e-01 1.012 9.29e-04 0.011866 *
## 1026 -2.93e-02 1.002 6.13e-05 0.001076
## 1027 1.90e-01 0.969 2.57e-03 0.003066 *
## 1028 -1.07e-01 0.994 8.24e-04 0.003015
## 1029 2.32e-03 1.014 3.86e-07 0.010140 *
## 1030 -1.13e-01 0.993 9.05e-04 0.003020
## 1031 -2.00e-02 1.004 2.86e-05 0.001549
## 1032 2.03e-01 1.004 2.94e-03 0.011762 *
## 1033 -6.86e-03 1.005 3.37e-06 0.001493
## 1034 -2.48e-02 1.006 4.38e-05 0.002962
## 1035 -1.69e-02 1.014 2.04e-05 0.010234 *
## 1036 -1.98e-01 1.005 2.81e-03 0.011832 *
## 1037 -3.20e-02 1.003 7.32e-05 0.001520
## 1038 2.64e-02 1.013 4.98e-05 0.010200 *
## 1039 -1.99e-02 1.002 2.83e-05 0.000815
## 1040 3.45e-03 1.004 8.52e-07 0.000891
## 1041 1.15e-01 1.013 9.53e-04 0.012868 *
## 1042 8.80e-03 1.008 5.53e-06 0.004594
## 1043 6.22e-02 1.003 2.76e-04 0.003252
## 1044 -4.89e-03 1.004 1.71e-06 0.001211
## 1045 1.66e-03 1.005 1.98e-07 0.001297
## 1046 -1.61e-02 1.004 1.85e-05 0.001070
## 1047 1.02e-02 1.004 7.37e-06 0.001215
## 1048 -1.24e-03 1.005 1.09e-07 0.001361
## 1049 -1.18e-01 0.995 9.89e-04 0.003788
## 1050 -1.12e-02 1.004 8.88e-06 0.000928
## 1051 1.85e-02 1.007 2.45e-05 0.003900
## 1052 -2.33e-02 1.005 3.87e-05 0.002119
## 1053 -3.81e-03 1.004 1.04e-06 0.000740
## 1054 -2.05e-02 1.017 3.00e-05 0.013856 *
## 1055 -1.56e-02 1.004 1.75e-05 0.001545
## 1056 2.37e-02 1.004 4.02e-05 0.001663
## 1057 -4.25e-02 1.006 1.29e-04 0.004282
## 1058 -2.78e-02 1.009 5.52e-05 0.006253
## 1059 -2.88e-02 1.002 5.94e-05 0.001102
## 1060 -4.59e-03 1.005 1.51e-06 0.001749
## 1061 6.56e-02 0.997 3.07e-04 0.001767
## 1062 -6.76e-04 1.004 3.27e-08 0.000886
## 1063 -9.30e-02 0.998 6.17e-04 0.003225
## 1064 -1.25e-02 1.004 1.12e-05 0.001325
## 1065 7.05e-03 1.004 3.55e-06 0.001276
## 1066 2.33e-01 0.953 3.86e-03 0.003174 *
## 1067 -4.99e-03 1.005 1.78e-06 0.001697
## 1068 -1.13e-01 1.002 9.04e-04 0.005905
## 1069 1.62e-02 1.005 1.88e-05 0.001807
## 1070 -8.89e-03 1.004 5.65e-06 0.000908
## 1071 -1.72e-03 1.005 2.12e-07 0.001581
## 1072 1.65e-02 1.005 1.94e-05 0.001877

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## 1073 1.44e-02 1.005 1.49e-05 0.002014
## 1074 1.42e-03 1.004 1.45e-07 0.000852
## 1075 1.05e-02 1.005 7.90e-06 0.001680
## 1076 2.48e-02 1.003 4.39e-05 0.001203
## 1077 4.85e-03 1.004 1.68e-06 0.001003
## 1078 1.46e-02 1.006 1.53e-05 0.003020
## 1079 3.56e-02 1.006 9.07e-05 0.003587
## 1080 -1.01e-02 1.007 7.28e-06 0.003524
## 1081 3.47e-02 1.005 8.61e-05 0.003128
## 1082 8.12e-02 1.000 4.71e-04 0.003139
## 1083 1.73e-02 1.006 2.15e-05 0.002939
## 1084 1.13e-02 1.005 9.04e-06 0.001730
## 1085 -1.06e-02 1.004 8.03e-06 0.001465
## 1086 2.24e-02 1.007 3.57e-05 0.004357
## 1087 -2.97e-02 1.003 6.30e-05 0.001671
## 1088 1.36e-04 1.005 1.31e-09 0.001749
## 1089 2.36e-01 0.943 3.96e-03 0.002788 *
## 1090 -1.84e-02 1.004 2.41e-05 0.001772
## 1091 2.79e-03 1.005 5.56e-07 0.001768
## 1092 1.57e-02 1.004 1.75e-05 0.001681
## 1093 -5.63e-04 1.005 2.26e-08 0.001539
## 1094 -8.49e-02 0.998 5.15e-04 0.002895
## 1095 2.57e-02 1.003 4.73e-05 0.001504
## 1096 1.50e-02 1.004 1.61e-05 0.001629
## 1097 1.24e-02 1.005 1.09e-05 0.001623
## 1098 -7.52e-03 1.004 4.04e-06 0.000786
## 1099 -1.20e-02 1.004 1.02e-05 0.000915
## 1100 -1.62e-03 1.004 1.89e-07 0.000943
## 1101 -1.57e-02 1.005 1.76e-05 0.002459
## 1102 9.32e-03 1.010 6.21e-06 0.006740 *
## 1103 -2.75e-02 1.006 5.41e-05 0.003543
## 1104 1.16e-02 1.005 9.69e-06 0.001676
## 1105 8.71e-03 1.004 5.42e-06 0.000891
## 1106 1.01e-02 1.004 7.29e-06 0.001245
## 1107 -1.07e-02 1.004 8.17e-06 0.000858
## 1108 1.33e-01 0.988 1.27e-03 0.003097 *
## 1109 2.05e-02 1.003 3.01e-05 0.000902
## 1110 -1.97e-02 1.004 2.79e-05 0.001893
## 1111 1.67e-02 1.007 2.00e-05 0.003732
## 1112 -3.72e-03 1.004 9.87e-07 0.000985
## 1113 2.01e-02 1.003 2.89e-05 0.001219
## 1114 -1.70e-02 1.006 2.06e-05 0.003092
## 1115 7.40e-03 1.004 3.91e-06 0.001149
## 1116 -6.94e-02 1.001 3.44e-04 0.003084
## 1117 1.28e-02 1.007 1.17e-05 0.004221
## 1118 -9.11e-03 1.004 5.93e-06 0.000813
## 1119 7.45e-03 1.004 3.97e-06 0.000829
## 1120 1.21e-02 1.005 1.04e-05 0.002123
## 1121 9.43e-03 1.007 6.35e-06 0.003651
## 1122 -1.17e-02 1.005 9.78e-06 0.002321
## 1123 -3.41e-03 1.004 8.32e-07 0.001140
## 1124 6.14e-03 1.004 2.69e-06 0.001216
## 1125 -2.09e-02 1.003 3.11e-05 0.000899
## 1126 -1.13e-01 0.995 9.09e-04 0.003407

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## 1127 4.84e-02 1.006 1.67e-04 0.004502
## 1128 -1.55e-02 1.004 1.72e-05 0.001206
## 1129 -7.56e-03 1.004 4.09e-06 0.000980
## 1130 -1.30e-01 0.998 1.21e-03 0.005160
## 1131 -2.11e-03 1.005 3.18e-07 0.001550
## 1132 3.75e-03 1.005 1.01e-06 0.001333
## 1133 -1.23e-02 1.004 1.08e-05 0.000951
## 1134 -1.74e-02 1.003 2.16e-05 0.000926
## 1135 -1.00e-01 1.000 7.18e-04 0.004176
## 1136 1.58e-02 1.004 1.79e-05 0.001192
## 1137 -1.77e-03 1.007 2.24e-07 0.003656
## 1138 -8.07e-03 1.004 4.65e-06 0.000837
## 1139 1.26e-02 1.030 1.13e-05 0.025608 *
## 1140 3.38e-02 1.016 8.18e-05 0.012805 *
## 1141 1.26e-02 1.030 1.13e-05 0.025608 *
## 1142 -6.43e-02 1.015 2.95e-04 0.012983 *
## 1143 -2.29e-02 1.004 3.73e-05 0.001627
## 1144 4.49e-03 1.005 1.44e-06 0.002234
## 1145 -1.44e-02 1.004 1.48e-05 0.000968
## 1146 5.18e-03 1.005 1.91e-06 0.001336
## 1147 -1.61e-02 1.004 1.84e-05 0.001617
## 1148 -2.48e-02 1.004 4.41e-05 0.001768
## 1149 -9.02e-02 0.998 5.82e-04 0.003127
## 1150 1.46e-02 1.004 1.53e-05 0.001527
## 1151 7.14e-03 1.005 3.64e-06 0.001533
## 1152 -6.82e-03 1.005 3.32e-06 0.001496
## 1153 -8.54e-03 1.005 5.20e-06 0.001684
## 1154 -2.14e-02 1.004 3.28e-05 0.001551
## 1155 -1.65e-02 1.004 1.95e-05 0.001466
## 1156 -1.16e-02 1.004 9.68e-06 0.001425
## 1157 1.05e-01 0.995 7.86e-04 0.003066
## 1158 -1.56e-03 1.005 1.74e-07 0.001421
## 1159 7.51e-03 1.006 4.03e-06 0.002651
## 1160 2.06e-02 1.004 3.02e-05 0.001530
## 1161 -9.74e-03 1.005 6.78e-06 0.001601
## 1162 -1.83e-02 1.005 2.39e-05 0.002564
## 1163 1.92e-02 1.005 2.62e-05 0.002508
## 1164 1.64e-02 1.004 1.93e-05 0.001632
## 1165 -5.32e-03 1.004 2.02e-06 0.000988
## 1166 -2.26e-02 1.003 3.64e-05 0.001272
## 1167 -1.84e-02 1.004 2.42e-05 0.001361
## 1168 -6.46e-02 1.015 2.98e-04 0.012874 *
## 1169 2.77e-02 1.004 5.46e-05 0.001928
## 1170 4.19e-02 1.000 1.25e-04 0.001325
## 1171 -1.47e-02 1.004 1.54e-05 0.001004
## 1172 1.75e-02 1.005 2.18e-05 0.001962
## 1173 9.55e-03 1.004 6.51e-06 0.001334
## 1174 1.71e-02 1.004 2.08e-05 0.001681
## 1175 1.17e-02 1.005 9.80e-06 0.001579
## 1176 -5.76e-03 1.004 2.37e-06 0.000953
## 1177 -7.75e-03 1.004 4.29e-06 0.001009
## 1178 -6.27e-04 1.008 2.81e-08 0.004429
## 1179 -3.20e-03 1.004 7.31e-07 0.001123
## 1180 -1.64e-02 1.004 1.92e-05 0.001079

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## 1181 -1.83e-02 1.003 2.40e-05 0.001079
## 1182 1.34e-02 1.007 1.28e-05 0.003559
## 1183 7.71e-03 1.004 4.25e-06 0.001290
## 1184 1.09e-03 1.005 8.57e-08 0.001328
## 1185 1.01e-01 1.015 7.30e-04 0.013902 *
## 1186 -7.58e-03 1.005 4.11e-06 0.001992
## 1187 -2.70e-02 1.001 5.22e-05 0.000894
## 1188 -1.68e-02 1.004 2.02e-05 0.001627
## 1189 -1.53e-02 1.003 1.68e-05 0.000832
## 1190 -1.56e-02 1.003 1.74e-05 0.000772
## 1191 -9.25e-03 1.004 6.11e-06 0.000832
## 1192 1.09e-02 1.004 8.49e-06 0.001009
## 1193 -8.08e-03 1.005 4.67e-06 0.001537
## 1194 -7.35e-03 1.005 3.86e-06 0.001386
## 1195 -5.89e-03 1.004 2.48e-06 0.001009
## 1196 1.19e-02 1.004 1.02e-05 0.001487
## 1197 2.15e-03 1.004 3.29e-07 0.000933
## 1198 -5.89e-03 1.004 2.48e-06 0.001009
## 1199 8.82e-04 1.004 5.56e-08 0.000769
## 1200 -2.64e-02 1.003 4.97e-05 0.001360
## 1201 -1.14e-01 0.993 9.29e-04 0.003103
## 1202 -2.33e-03 1.004 3.89e-07 0.001245
## 1203 9.48e-02 0.977 6.41e-04 0.001053 *
## 1204 -1.08e-02 1.004 8.31e-06 0.000813
## 1205 1.24e-02 1.003 1.11e-05 0.000838
## 1206 6.47e-03 1.005 2.99e-06 0.001435
## 1207 4.97e-03 1.004 1.77e-06 0.001207
## 1208 -6.09e-03 1.005 2.65e-06 0.001506
## 1209 6.93e-03 1.004 3.43e-06 0.001287
## 1210 1.49e-02 1.007 1.59e-05 0.003589
## 1211 -2.17e-02 1.003 3.37e-05 0.001178
## 1212 -1.18e-02 1.004 1.00e-05 0.001340
## 1213 5.13e-03 1.004 1.88e-06 0.000897
## 1214 -1.09e-02 1.004 8.52e-06 0.000918
## 1215 6.02e-02 0.991 2.59e-04 0.000886
## 1216 -1.87e-03 1.017 2.50e-07 0.013211 *
## 1217 -2.80e-03 1.004 5.59e-07 0.000857
## 1218 2.61e-02 1.003 4.88e-05 0.001287
## 1219 1.19e-04 1.004 1.02e-09 0.001221
## 1220 -1.06e-01 0.995 7.95e-04 0.003176
## 1221 5.69e-03 1.007 2.31e-06 0.003789
## 1222 -2.02e-03 1.004 2.92e-07 0.000865
## 1223 -2.01e-02 1.003 2.88e-05 0.000866
## 1224 -4.45e-03 1.004 1.41e-06 0.000918
## 1225 2.85e-03 1.004 5.80e-07 0.000978
## 1226 -4.10e-02 1.006 1.20e-04 0.003708
## 1227 -3.04e-02 1.003 6.61e-05 0.001858
## 1228 -3.73e-02 1.004 9.94e-05 0.002820
## 1229 -4.95e-04 1.006 1.75e-08 0.002780
## 1230 8.96e-03 1.005 5.73e-06 0.001639
## 1231 -1.92e-02 1.005 2.64e-05 0.002474
## 1232 -3.90e-02 1.006 1.09e-04 0.003608
## 1233 6.80e-03 1.004 3.31e-06 0.000819
## 1234 1.09e-02 1.004 8.52e-06 0.000785

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## 1235 -9.61e-03 1.004 6.60e-06 0.000927
## 1236 -1.23e-02 1.004 1.09e-05 0.001221
## 1237 8.20e-03 1.005 4.80e-06 0.001908
## 1238 3.82e-03 1.005 1.04e-06 0.002069
## 1239 -2.48e-02 1.004 4.39e-05 0.001907
## 1240 -9.49e-03 1.004 6.43e-06 0.000776
## 1241 -7.14e-03 1.004 3.65e-06 0.000852
## 1242 -3.39e-02 1.002 8.19e-05 0.001395
## 1243 1.28e-02 1.006 1.18e-05 0.002481
## 1244 5.98e-01 1.088 2.55e-02 0.089125 *
## 1245 -2.54e-02 1.003 4.62e-05 0.001525
## 1246 6.80e-03 1.004 3.30e-06 0.001002
## 1247 8.20e-03 1.005 4.80e-06 0.001409
## 1248 1.03e-02 1.005 7.52e-06 0.001632
## 1249 -5.64e-03 1.005 2.28e-06 0.001739
## 1250 1.22e-02 1.004 1.06e-05 0.000933
## 1251 -2.99e-03 1.005 6.37e-07 0.002014
## 1252 -1.24e-02 1.007 1.10e-05 0.003784
## 1253 -1.64e-02 1.003 1.92e-05 0.000988
## 1254 4.66e-02 1.006 1.55e-04 0.004592
## 1255 -1.97e-02 1.003 2.76e-05 0.001076
## 1256 -2.05e-02 1.003 3.00e-05 0.001212
## 1257 1.40e-02 1.004 1.40e-05 0.001374
## 1258 -1.20e-02 1.005 1.03e-05 0.001998
## 1259 -1.47e-02 1.003 1.55e-05 0.000933
## 1260 1.22e-02 1.004 1.06e-05 0.001520
## 1261 -3.99e-02 1.003 1.13e-04 0.002308
## 1262 -2.39e-03 1.004 4.09e-07 0.000906
## 1263 3.52e-03 1.005 8.87e-07 0.001624
## 1264 3.09e-02 1.002 6.81e-05 0.001189
## 1265 -1.25e-02 1.004 1.11e-05 0.001123
## 1266 -2.43e-02 1.002 4.21e-05 0.000844
## 1267 -1.93e-02 1.004 2.67e-05 0.001373
## 1268 1.31e-02 1.005 1.23e-05 0.001629
## 1269 7.91e-03 1.005 4.47e-06 0.002026
## 1270 -5.27e-03 1.005 1.99e-06 0.001575
## 1271 -1.03e-02 1.004 7.62e-06 0.001466
## 1272 9.94e-04 1.004 7.06e-08 0.001103
## 1273 5.85e-03 1.005 2.45e-06 0.001447
## 1274 -1.33e-01 0.994 1.26e-03 0.004246
## 1275 1.06e-02 1.006 8.00e-06 0.002648
## 1276 1.62e-02 1.006 1.86e-05 0.002685
## 1277 -8.85e-03 1.004 5.60e-06 0.001405
## 1278 -1.96e-02 1.004 2.76e-05 0.001426
## 1279 -1.97e-02 1.004 2.76e-05 0.001443
## 1280 -3.78e-02 1.004 1.02e-04 0.002470
## 1281 -9.70e-02 0.996 6.71e-04 0.002984
## 1282 -3.31e-02 1.006 7.85e-05 0.003697
## 1283 3.41e-02 1.000 8.30e-05 0.000960
## 1284 6.46e-03 1.005 2.98e-06 0.001811
## 1285 3.09e-02 1.004 6.81e-05 0.002407
## 1286 -1.61e-02 1.003 1.85e-05 0.000857
## 1287 1.35e-02 1.003 1.31e-05 0.000805
## 1288 -5.76e-04 1.005 2.37e-08 0.001354

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## 1289  1.52e-01 0.986 1.64e-03 0.003512 *
## 1290  6.45e-03 1.004 2.97e-06 0.000866
## 1291  2.09e-01 0.959 3.11e-03 0.002953 *
## 1292 -1.98e-02 1.004 2.80e-05 0.001488
## 1293 -1.48e-02 1.004 1.57e-05 0.001354
## 1294 -1.21e-02 1.005 1.05e-05 0.001563
## 1295 -4.33e-03 1.006 1.34e-06 0.002479
## 1296 -1.04e-02 1.004 7.74e-06 0.000973
## 1297 -2.79e-02 1.007 5.56e-05 0.004162
## 1298 -2.83e-02 1.007 5.74e-05 0.004040
## 1299  2.32e-02 1.016 3.85e-05 0.012575 *
## 1300  5.74e-02 1.004 2.35e-04 0.003560
## 1301 -8.55e-04 1.004 5.23e-08 0.001212
## 1302  1.84e-02 1.005 2.42e-05 0.001859
## 1303 -1.98e-03 1.004 2.80e-07 0.000973
## 1304  1.38e-01 0.988 1.37e-03 0.003384 *
## 1305  1.19e-02 1.004 1.02e-05 0.001388
## 1306  5.74e-03 1.005 2.36e-06 0.001422
## 1307 -8.44e-03 1.004 5.09e-06 0.001043
## 1308  1.80e-02 1.005 2.31e-05 0.002283
## 1309 -1.06e-02 1.004 8.03e-06 0.001277
## 1310 -2.86e-02 1.002 5.84e-05 0.001211
## 1311 -1.93e-02 1.003 2.66e-05 0.001217
## 1312  4.24e-02 0.997 1.28e-04 0.000866
## 1313 -4.16e-02 1.003 1.24e-04 0.002449
## 1314  1.99e-02 1.005 2.82e-05 0.002699
## 1315 -3.76e-03 1.017 1.01e-06 0.013236 *
## 1316 -1.83e-03 1.005 2.39e-07 0.001510
## 1317 -1.80e-03 1.005 2.31e-07 0.001563
## 1318 -8.52e-03 1.004 5.18e-06 0.001278
## 1319  4.25e-03 1.005 1.29e-06 0.001680
## 1320  5.85e-03 1.005 2.45e-06 0.001552
## 1321 -2.35e-02 1.003 3.96e-05 0.001412
## 1322  8.02e-03 1.004 4.60e-06 0.001376
## 1323  2.87e-03 1.005 5.89e-07 0.001525
## 1324 -1.22e-01 0.994 1.06e-03 0.003709
## 1325  4.63e-03 1.005 1.53e-06 0.001485
## 1326  7.05e-02 0.988 3.54e-04 0.000978 *
## 1327 -1.71e-02 1.004 2.08e-05 0.001739
## 1328  9.87e-03 1.005 6.96e-06 0.001779
## 1329 -7.14e-03 1.004 3.64e-06 0.001244
## 1330  8.48e-03 1.005 5.14e-06 0.001779
## 1331 -6.13e-02 1.003 2.68e-04 0.003563
## 1332  1.16e-02 1.004 9.56e-06 0.001099
## 1333 -1.41e-02 1.004 1.42e-05 0.000946
## 1334 -3.14e-03 1.005 7.06e-07 0.001426
## 1335 -1.35e-01 1.000 1.30e-03 0.006204
## 1336  2.02e-03 1.004 2.90e-07 0.000857
## 1337  3.44e-03 1.004 8.45e-07 0.000932
## 1338 -8.57e-03 1.004 5.25e-06 0.000832
## 1339  1.55e-02 1.007 1.71e-05 0.003581
## 1340 -1.46e-02 1.004 1.52e-05 0.001064
## 1341 -5.66e-03 1.004 2.29e-06 0.000823
## 1342  3.45e-03 1.004 8.52e-07 0.000891

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## 1343 -4.26e-03 1.008 1.30e-06 0.004495
## 1344 1.55e-03 1.004 1.72e-07 0.001221
## 1345 -6.66e-03 1.004 3.17e-06 0.000866
## 1346 4.30e-03 1.004 1.32e-06 0.001207
## 1347 -1.39e-02 1.004 1.38e-05 0.001206
## 1348 1.56e-03 1.004 1.73e-07 0.001215
## 1349 7.37e-03 1.004 3.89e-06 0.001211
## 1350 4.24e-03 1.004 1.28e-06 0.001266
## 1351 2.63e-02 1.007 4.96e-05 0.004340
## 1352 -1.33e-01 0.988 1.26e-03 0.003092 *
## 1353 -9.10e-03 1.004 5.91e-06 0.001027
## 1354 -6.61e-03 1.005 3.13e-06 0.001899
## 1355 2.08e-02 1.005 3.08e-05 0.002581
## 1356 -2.59e-04 1.049 4.78e-09 0.044050 *
## 1357 -2.24e-02 1.003 3.59e-05 0.001186
## 1358 -3.60e-02 1.002 9.26e-05 0.001545
## 1359 6.64e-03 1.006 3.15e-06 0.003043
## 1360 1.18e-03 1.006 1.00e-07 0.002255
## 1361 1.32e-02 1.004 1.24e-05 0.000943
## 1362 3.80e-03 1.004 1.03e-06 0.001264
## 1363 9.40e-02 1.000 6.31e-04 0.004085
## 1364 2.48e-02 1.004 4.39e-05 0.002145
## 1365 8.58e-03 1.004 5.25e-06 0.001404
## 1366 3.14e-02 1.003 7.03e-05 0.001520
## 1367 -2.13e-03 1.004 3.25e-07 0.001231
## 1368 -4.00e-03 1.004 1.15e-06 0.000882
## 1369 2.48e-02 1.007 4.39e-05 0.003990
## 1370 2.57e-02 1.003 4.73e-05 0.001477
## 1371 -1.93e-02 1.003 2.67e-05 0.001174
## 1372 -2.34e-02 1.005 3.93e-05 0.002657
## 1373 -1.71e-02 1.003 2.09e-05 0.001070
## 1374 -1.09e-02 1.004 8.54e-06 0.000828
## 1375 3.40e-03 1.004 8.26e-07 0.001064
## 1376 -1.53e-03 1.005 1.66e-07 0.001470
## 1377 -7.85e-03 1.004 4.40e-06 0.001327
## 1378 9.86e-03 1.004 6.94e-06 0.001435
## 1379 -1.06e-01 0.996 8.05e-04 0.003301
## 1380 8.18e-04 1.007 4.79e-08 0.003923
## 1381 1.30e-02 1.005 1.20e-05 0.001842
## 1382 9.79e-03 1.004 6.84e-06 0.001149
## 1383 3.66e-03 1.005 9.59e-07 0.001549
## 1384 -2.45e-03 1.004 4.27e-07 0.001231
## 1385 -6.58e-04 1.005 3.09e-08 0.001509
## 1386 -9.25e-02 0.998 6.11e-04 0.003323
## 1387 -1.42e-02 1.004 1.44e-05 0.001257
## 1388 -2.90e-04 1.004 6.01e-09 0.000852
## 1389 1.00e-02 1.004 7.16e-06 0.000926
## 1390 -1.37e-02 1.003 1.35e-05 0.000891
## 1391 -1.16e-02 1.004 9.62e-06 0.000861
## 1392 4.44e-03 1.004 1.41e-06 0.000972
## 1393 -1.21e-03 1.004 1.04e-07 0.000968
## 1394 -2.96e-02 1.003 6.27e-05 0.001604
## 1395 -2.18e-03 1.005 3.38e-07 0.001293
## 1396 -2.77e-02 1.003 5.47e-05 0.001422

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## 1397 1.04e-02 1.004 7.65e-06 0.001269
## 1398 1.47e-02 1.008 1.55e-05 0.004850
## 1399 8.00e-03 1.004 4.57e-06 0.001380
## 1400 -2.99e-02 1.003 6.39e-05 0.001397
## 1401 -5.56e-03 1.007 2.21e-06 0.003729
## 1402 -2.81e-03 1.004 5.65e-07 0.000818
## 1403 8.19e-03 1.006 4.80e-06 0.002436
## 1404 -1.62e-02 1.004 1.87e-05 0.001424
## 1405 3.78e-02 1.007 1.02e-04 0.004338
## 1406 2.89e-02 1.004 5.95e-05 0.001973
## 1407 2.17e-02 1.006 3.38e-05 0.003114
## 1408 -9.94e-02 0.997 7.05e-04 0.003296
## 1409 -6.60e-02 1.002 3.12e-04 0.003093
## 1410 2.14e-02 1.004 3.26e-05 0.001466
## 1411 1.55e-01 0.998 1.71e-03 0.006387
## 1412 -1.88e-02 1.003 2.52e-05 0.000982
## 1413 1.50e-02 1.003 1.61e-05 0.000941
## 1414 -1.27e-03 1.006 1.15e-07 0.002778
## 1415 -1.46e-01 1.001 1.52e-03 0.007029
## 1416 8.08e-04 1.004 4.67e-08 0.000959
## 1417 2.71e-02 1.003 5.24e-05 0.001452
## 1418 8.65e-02 1.000 5.35e-04 0.003519
## 1419 1.47e-02 1.004 1.54e-05 0.001415
## 1420 -9.25e-03 1.004 6.11e-06 0.001065
## 1421 1.09e-03 1.007 8.44e-08 0.003611
## 1422 -1.61e-02 1.003 1.85e-05 0.000940
## 1423 9.32e-04 1.004 6.20e-08 0.000813
## 1424 7.75e-03 1.004 4.29e-06 0.001190
## 1425 -7.22e-03 1.004 3.72e-06 0.001235
## 1426 -1.08e-01 0.997 8.39e-04 0.003776
## 1427 -1.45e-01 1.003 1.51e-03 0.008004
## 1428 2.69e-02 1.004 5.15e-05 0.001932
## 1429 3.19e-03 1.005 7.28e-07 0.001466
## 1430 -1.06e-02 1.005 7.98e-06 0.001622
## 1431 1.60e-02 1.004 1.83e-05 0.001351
## 1432 8.29e-03 1.004 4.91e-06 0.001171
## 1433 -1.10e-01 0.995 8.68e-04 0.003461
## 1434 -5.35e-02 1.015 2.04e-04 0.012747 *
## 1435 1.57e-02 1.003 1.76e-05 0.000772
## 1436 -4.69e-02 1.049 1.57e-04 0.044140 *
## 1437 1.55e-02 1.003 1.72e-05 0.000786
## 1438 -2.10e-02 1.003 3.16e-05 0.001079
## 1439 2.26e-02 1.006 3.66e-05 0.003630
## 1440 -9.11e-03 1.004 5.93e-06 0.000977
## 1441 -1.08e-02 1.005 8.31e-06 0.002319
## 1442 1.53e-01 0.982 1.67e-03 0.003029 *
## 1443 -4.19e-03 1.007 1.26e-06 0.003686
## 1444 1.82e-02 1.016 2.37e-05 0.012675 *
## 1445 -3.15e-03 1.004 7.10e-07 0.000815
## 1446 4.64e-03 1.016 1.54e-06 0.012662 *
## 1447 3.04e-02 1.005 6.60e-05 0.002592
## 1448 -5.77e-03 1.005 2.38e-06 0.001401
## 1449 -2.12e-02 1.003 3.22e-05 0.001226
## 1450 5.01e-03 1.004 1.79e-06 0.000940

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## 1451 2.41e-02 1.006 4.14e-05 0.003471
## 1452 -1.16e-02 1.006 9.59e-06 0.002426
## 1453 -2.71e-02 1.003 5.25e-05 0.001293
## 1454 3.81e-02 1.001 1.04e-04 0.001231
## 1455 -1.90e-02 1.004 2.57e-05 0.001401
## 1456 1.15e-02 1.004 9.39e-06 0.001211
## 1457 1.01e-02 1.004 7.32e-06 0.001293
## 1458 1.11e-03 1.005 8.74e-08 0.001457
## 1459 -1.42e-02 1.004 1.44e-05 0.001249
## 1460 -5.08e-02 1.004 1.85e-04 0.003240
## 1461 -2.47e-02 1.004 4.34e-05 0.001732
## 1462 -1.98e-02 1.004 2.81e-05 0.001629
## 1463 -1.13e-02 1.008 9.12e-06 0.004406
## 1464 -7.01e-03 1.004 3.51e-06 0.000745
## 1465 2.61e-02 1.003 4.87e-05 0.001499
## 1466 4.53e-03 1.005 1.47e-06 0.001418
## 1467 -1.96e-02 1.006 2.76e-05 0.003449
## 1468 -1.48e-01 0.984 1.57e-03 0.003099 *
## 1469 -2.61e-02 1.004 4.86e-05 0.001752
## 1470 -1.02e-01 0.995 7.49e-04 0.003034
## 1471 -1.47e-02 1.004 1.55e-05 0.001411
## 1472 -6.78e-03 1.006 3.28e-06 0.002891
## 1473 -2.83e-02 1.003 5.72e-05 0.001404
## 1474 -2.57e-02 1.003 4.71e-05 0.001399
## 1475 -3.40e-02 1.002 8.28e-05 0.001515
## 1476 -7.44e-02 1.000 3.95e-04 0.003055
## 1477 -9.32e-03 1.005 6.21e-06 0.001687
## 1478 -4.69e-03 1.005 1.57e-06 0.001467
## 1479 9.70e-02 0.989 6.72e-04 0.001894 *
## 1480 1.96e-01 0.966 2.73e-03 0.003020 *
## 1481 -2.83e-02 1.003 5.73e-05 0.001399
## 1482 -2.35e-02 1.003 3.95e-05 0.001234
## 1483 -1.40e-02 1.017 1.40e-05 0.013300 *
## 1484 1.00e-02 1.004 7.21e-06 0.001182
## 1485 -8.59e-03 1.007 5.27e-06 0.003608
## 1486 -6.28e-03 1.007 2.81e-06 0.003741
## 1487 1.37e-02 1.006 1.34e-05 0.002765
## 1488 -1.97e-02 1.004 2.78e-05 0.001461
## 1489 1.64e-02 1.005 1.93e-05 0.002494
## 1490 -6.50e-03 1.004 3.02e-06 0.001070
## 1491 6.59e-04 1.005 3.11e-08 0.001828
## 1492 -9.52e-03 1.004 6.47e-06 0.000882
## 1493 3.58e-03 1.004 9.18e-07 0.001283
## 1494 6.28e-03 1.005 2.82e-06 0.001353
## 1495 1.06e-02 1.005 7.96e-06 0.001869
## 1496 -8.33e-03 1.008 4.96e-06 0.004531
## 1497 -3.95e-02 1.004 1.12e-04 0.002404
## 1498 -2.18e-02 1.003 3.39e-05 0.001229
## 1499 -4.25e-03 1.004 1.29e-06 0.001114
## 1500 2.96e-02 1.003 6.24e-05 0.001737
## 1501 3.90e-02 1.001 1.08e-04 0.001249
## 1502 1.67e-02 1.004 2.00e-05 0.001415
## 1503 4.03e-02 1.005 1.16e-04 0.003318
## 1504 1.26e-02 1.004 1.13e-05 0.001532

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## 1505 -7.02e-04 1.004 3.52e-08 0.001221
## 1506 -3.82e-03 1.004 1.05e-06 0.001053
## 1507 -5.26e-03 1.005 1.98e-06 0.002033
## 1508 -3.37e-03 1.004 8.11e-07 0.001231
## 1509 1.60e-02 1.004 1.83e-05 0.001585
## 1510 -7.23e-03 1.006 3.74e-06 0.002610
## 1511 9.70e-03 1.004 6.72e-06 0.001296
## 1512 -1.64e-02 1.003 1.93e-05 0.001063
## 1513 8.58e-03 1.005 5.26e-06 0.002071
## 1514 -4.94e-03 1.005 1.75e-06 0.001410
## 1515 -1.23e-02 1.004 1.08e-05 0.001278
## 1516 2.40e-03 1.005 4.13e-07 0.001278
## 1517 5.15e-02 1.001 1.89e-04 0.001934
## 1518 1.11e-02 1.004 8.83e-06 0.001305
## 1519 -6.21e-03 1.005 2.75e-06 0.001441
## 1520 1.50e-02 1.004 1.60e-05 0.001237
## 1521 -1.35e-02 1.004 1.29e-05 0.001437
## 1522 1.38e-03 1.004 1.36e-07 0.000776
## 1523 -1.26e-02 1.004 1.14e-05 0.001421
## 1524 6.18e-03 1.004 2.73e-06 0.000970
## 1525 -1.28e-04 1.005 1.18e-09 0.001448
## 1526 8.31e-03 1.004 4.94e-06 0.000921
## 1527 -9.45e-03 1.005 6.38e-06 0.001529
## 1528 1.41e-03 1.004 1.43e-07 0.001198
## 1529 -1.31e-02 1.004 1.22e-05 0.001566
## 1530 9.26e-03 1.004 6.13e-06 0.001180
## 1531 4.10e-02 1.004 1.20e-04 0.002550
## 1532 -8.05e-02 1.015 4.63e-04 0.013145 *
## 1533 6.31e-02 1.003 2.84e-04 0.003682
## 1534 1.41e-02 1.003 1.42e-05 0.000740
## 1535 -6.58e-03 1.004 3.09e-06 0.000857
## 1536 -1.40e-02 1.004 1.40e-05 0.001596
## 1537 6.41e-04 1.004 2.93e-08 0.000857
## 1538 -5.72e-02 1.003 2.34e-04 0.003028
## 1539 -8.21e-03 1.005 4.81e-06 0.001727
## 1540 1.86e-03 1.004 2.46e-07 0.001246
## 1541 2.00e-02 1.007 2.86e-05 0.003620
## 1542 -2.01e-02 1.003 2.88e-05 0.001031
## 1543 -1.76e-02 1.004 2.20e-05 0.001218
## 1544 -2.46e-03 1.005 4.34e-07 0.001286
## 1545 -1.05e-02 1.004 7.87e-06 0.001461
## 1546 -1.89e-02 1.004 2.54e-05 0.001226
## 1547 -1.24e-01 0.991 1.11e-03 0.003301
## 1548 -1.20e-02 1.005 1.04e-05 0.001712
## 1549 -7.57e-03 1.004 4.10e-06 0.000743
## 1550 -1.91e-02 1.007 2.62e-05 0.003580
## 1551 1.20e-02 1.004 1.02e-05 0.001211
## 1552 -2.30e-02 1.002 3.79e-05 0.000988
## 1553 -1.10e-02 1.004 8.66e-06 0.001399
## 1554 -1.28e-02 1.004 1.17e-05 0.000905
## 1555 1.50e-03 1.005 1.61e-07 0.001308
## 1556 1.70e-02 1.004 2.07e-05 0.001570
## 1557 3.28e-02 1.001 7.69e-05 0.001092
## 1558 -6.69e-02 1.015 3.19e-04 0.012769 *

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## 1559 -5.72e-03 1.004 2.34e-06 0.000980
## 1560  1.08e-02 1.004 8.34e-06 0.001278
## 1561  7.72e-02 1.002 4.26e-04 0.003851
## 1562  6.32e-03 1.004 2.85e-06 0.000875
## 1563 -1.90e-02 1.003 2.58e-05 0.001186
## 1564  3.52e-03 1.004 8.83e-07 0.001246
## 1565 -3.38e-03 1.004 8.14e-07 0.001264
## 1566  5.11e-04 1.004 1.87e-08 0.001182
## 1567 -7.25e-03 1.004 3.76e-06 0.001060
## 1568 -3.71e-03 1.004 9.81e-07 0.001259
## 1569 -6.69e-02 1.015 3.19e-04 0.012769 *
## 1570 -1.36e-02 1.004 1.31e-05 0.001408
## 1571  6.33e-03 1.004 2.86e-06 0.000807
## 1572 -1.49e-02 1.003 1.59e-05 0.000805
## 1573  3.34e-02 1.007 7.98e-05 0.004270
## 1574 -1.30e-01 1.000 1.20e-03 0.005912
## 1575 -1.71e-02 1.003 2.09e-05 0.001038
## 1576 -2.22e-02 1.004 3.53e-05 0.001428
## 1577  7.80e-03 1.004 4.35e-06 0.001038
## 1578  5.45e-04 1.004 2.13e-08 0.000818
## 1579 -1.90e-02 1.007 2.58e-05 0.004085
## 1580  1.89e-02 1.010 2.54e-05 0.007240 *
## 1581 -5.01e-03 1.005 1.79e-06 0.001545
## 1582 -1.11e-02 1.004 8.88e-06 0.001234
## 1583  9.02e-03 1.004 5.82e-06 0.001244
## 1584  2.37e-02 1.006 4.00e-05 0.003685
## 1585  2.15e-02 1.007 3.30e-05 0.003648
## 1586  1.63e-03 1.005 1.89e-07 0.001327
## 1587  1.51e-02 1.004 1.64e-05 0.001293
## 1588 -1.15e-02 1.004 9.41e-06 0.001230
## 1589  1.39e-02 1.004 1.37e-05 0.001244
## 1590 -1.28e-02 1.004 1.18e-05 0.001219
## 1591  1.69e-03 1.005 2.04e-07 0.001437
## 1592  4.92e-02 0.998 1.73e-04 0.001160
## 1593  6.09e-03 1.005 2.65e-06 0.001558
## 1594  2.29e-02 1.002 3.76e-05 0.000933
## 1595  1.99e-02 1.030 2.84e-05 0.025666 *
## 1596 -9.47e-02 1.017 6.41e-04 0.015729 *
## 1597 -2.60e-02 1.006 4.82e-05 0.003785
## 1598 -1.69e-02 1.005 2.03e-05 0.002424
## 1599  7.54e-02 1.016 4.06e-04 0.013527 *
## 1600 -8.02e-03 1.005 4.60e-06 0.001817
## 1601  3.14e-04 1.005 7.02e-09 0.001644
## 1602 -2.56e-02 1.002 4.70e-05 0.001079
## 1603  5.44e-03 1.004 2.11e-06 0.001156
## 1604 -1.19e-01 0.998 1.00e-03 0.004455
## 1605 -1.37e-02 1.003 1.34e-05 0.000800
## 1606 -6.73e-03 1.004 3.24e-06 0.001059
## 1607  5.20e-03 1.005 1.93e-06 0.001337
## 1608 -4.64e-03 1.005 1.54e-06 0.001415
## 1609 -4.43e-02 1.016 1.40e-04 0.012999 *
## 1610 -4.36e-03 1.004 1.36e-06 0.001002
## 1611 -6.98e-03 1.004 3.48e-06 0.001306
## 1612  1.77e-02 1.005 2.23e-05 0.002252

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## 1613 2.00e-02 1.004 2.86e-05 0.001404
## 1614 5.05e-03 1.004 1.82e-06 0.001221
## 1615 2.09e-03 1.004 3.11e-07 0.000777
## 1616 -8.21e-02 1.011 4.82e-04 0.010189 *
## 1617 -9.81e-03 1.014 6.88e-06 0.010180 *
## 1618 -4.97e-02 1.013 1.76e-04 0.010248 *
## 1619 3.26e-02 1.013 7.58e-05 0.010231 *
## 1620 -8.71e-02 1.011 5.42e-04 0.010151 *
## 1621 -4.40e-02 1.013 1.38e-04 0.010096 *
## 1622 -5.81e-02 1.013 2.41e-04 0.010216 *
## 1623 2.69e-02 1.013 5.18e-05 0.010168 *
## 1624 2.11e-01 1.003 3.19e-03 0.011957 *
## 1625 -2.59e-03 1.014 4.79e-07 0.010201 *
## 1626 8.49e-03 1.014 5.15e-06 0.010205 *
## 1627 1.33e-01 1.008 1.26e-03 0.010350 *
## 1628 1.51e-03 1.005 1.62e-07 0.001595
## 1629 -1.92e-02 1.003 2.63e-05 0.000918
## 1630 -1.16e-01 0.997 9.65e-04 0.004152
## 1631 -1.34e-01 0.989 1.28e-03 0.003294 *
## 1632 -1.12e-01 0.995 9.03e-04 0.003589
## 1633 -1.88e-02 1.004 2.53e-05 0.001609
## 1634 -2.15e-02 1.016 3.30e-05 0.012762 *
## 1635 -1.09e-01 0.997 8.41e-04 0.003668
## 1636 3.13e-02 1.006 7.01e-05 0.003797
## 1637 3.72e-02 0.999 9.87e-05 0.000926
## 1638 -4.46e-03 1.008 1.42e-06 0.004752
## 1639 1.41e-02 1.005 1.42e-05 0.002494
## 1640 -6.06e-03 1.004 2.62e-06 0.000927
## 1641 1.29e-02 1.005 1.18e-05 0.002106
## 1642 6.81e-03 1.004 3.32e-06 0.000760
## 1643 -1.56e-03 1.004 1.74e-07 0.001228
## 1644 -2.00e-02 1.004 2.86e-05 0.001412
## 1645 -1.01e-02 1.004 7.36e-06 0.000836
## 1646 -1.55e-02 1.004 1.72e-05 0.001211
## 1647 1.24e-01 0.992 1.10e-03 0.003326
## 1648 -5.98e-03 1.004 2.56e-06 0.000885
## 1649 -9.51e-03 1.004 6.46e-06 0.001111
## 1650 1.83e-03 1.004 2.39e-07 0.001065
## 1651 -1.85e-02 1.003 2.44e-05 0.001149
## 1652 -1.03e-03 1.004 7.60e-08 0.000818
## 1653 2.71e-02 1.003 5.24e-05 0.001219
## 1654 -9.47e-03 1.004 6.41e-06 0.000865
## 1655 4.02e-03 1.004 1.15e-06 0.000790
## 1656 -2.57e-02 1.002 4.72e-05 0.001102
## 1657 8.03e-03 1.005 4.60e-06 0.001530
## 1658 1.29e-02 1.005 1.19e-05 0.001922
## 1659 1.37e-02 1.004 1.35e-05 0.001135
## 1660 3.15e-02 1.011 7.07e-05 0.007650 *
## 1661 -2.17e-02 1.003 3.37e-05 0.001178
## 1662 -1.35e-02 1.003 1.30e-05 0.000902
## 1663 6.33e-03 1.004 2.86e-06 0.000807
## 1664 -3.63e-03 1.004 9.39e-07 0.001049
## 1665 -1.33e-02 1.005 1.27e-05 0.001735
## 1666 -1.32e-02 1.004 1.25e-05 0.000927

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## 1667  1.79e-02 1.004 2.29e-05 0.001336
## 1668  1.79e-02 1.004 2.29e-05 0.001336
## 1669  3.98e-02 1.007 1.13e-04 0.005096
## 1670  4.97e-02 1.009 1.76e-04 0.006713
## 1671 -5.18e-02 1.049 1.92e-04 0.043897 *
## 1672  5.57e-03 1.004 2.22e-06 0.000977
## 1673  2.14e-02 1.004 3.28e-05 0.001988
## 1674  1.43e-02 1.005 1.47e-05 0.002179
## 1675  3.49e-02 1.013 8.72e-05 0.010023 *
## 1676  1.51e-03 1.005 1.62e-07 0.001595
## 1677  1.99e-02 1.005 2.82e-05 0.002107
## 1678 -1.57e-02 1.003 1.76e-05 0.000960
## 1679  7.12e-03 1.005 3.63e-06 0.001437
## 1680 -1.76e-02 1.004 2.21e-05 0.001451
## 1681  1.14e-02 1.005 9.27e-06 0.002066
## 1682  2.84e-02 1.004 5.75e-05 0.001831
## 1683 -8.12e-03 1.004 4.71e-06 0.000952
## 1684 -2.15e-02 1.007 3.32e-05 0.004066
## 1685 -2.21e-02 1.006 3.48e-05 0.003608
## 1686 -1.83e-02 1.007 2.38e-05 0.003776
## 1687  2.71e-02 1.030 5.26e-05 0.025864 *
## 1688 -3.90e-02 1.006 1.09e-04 0.003608
## 1689  3.60e-02 1.005 9.25e-05 0.002999
## 1690 -1.55e-03 1.005 1.72e-07 0.001455
## 1691 -1.68e-02 1.003 2.01e-05 0.000927
## 1692 -5.34e-03 1.004 2.04e-06 0.001110
## 1693  4.33e-03 1.004 1.34e-06 0.001290
## 1694  4.96e-03 1.008 1.76e-06 0.004590
## 1695 -8.88e-03 1.030 5.64e-06 0.025603 *
## 1696 -3.41e-03 1.004 8.32e-07 0.001140
## 1697 -1.71e-03 1.004 2.09e-07 0.001088
## 1698  6.10e-03 1.004 2.66e-06 0.000863
## 1699 -4.85e-03 1.004 1.68e-06 0.000825
## 1700  1.51e-01 1.052 1.63e-03 0.047842 *
## 1701 -1.22e-04 1.005 1.06e-09 0.001258
## 1702 -7.39e-03 1.004 3.90e-06 0.001219
## 1703 -3.02e-02 1.050 6.52e-05 0.044238 *
## 1704  4.31e-02 0.997 1.33e-04 0.000800
## 1705  9.16e-03 1.004 5.99e-06 0.000908
## 1706  2.60e-01 0.938 4.81e-03 0.003100 *
## 1707  4.84e-03 1.005 1.67e-06 0.001326
## 1708 -1.80e-02 1.003 2.30e-05 0.000896
## 1709 -5.45e-03 1.005 2.12e-06 0.001752
## 1710  1.09e-02 1.005 8.44e-06 0.001609
## 1711  1.88e-02 1.004 2.54e-05 0.001783
## 1712  3.26e-02 1.005 7.61e-05 0.002922
## 1713  1.45e-02 1.003 1.50e-05 0.000936
## 1714  1.00e-03 1.004 7.19e-08 0.000858
## 1715 -1.88e-01 1.064 2.54e-03 0.059232 *
## 1716 -1.02e-01 1.066 7.49e-04 0.059023 *
## 1717 -5.73e-02 1.066 2.35e-04 0.059232 *
## 1718 -1.81e-02 1.004 2.34e-05 0.001421
## 1719  2.03e-03 1.004 2.94e-07 0.000807
## 1720  6.89e-02 1.001 3.39e-04 0.003022

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## 1721 -2.03e-02 1.003 2.95e-05 0.001064
## 1722 -2.03e-02 1.002 2.95e-05 0.000800
## 1723 -4.97e-03 1.004 1.77e-06 0.000834
## 1724 -3.10e-02 1.005 6.89e-05 0.002999
## 1725 3.62e-02 1.006 9.39e-05 0.003749
## 1726 1.98e-02 1.004 2.80e-05 0.001620
## 1727 -1.84e-03 1.016 2.43e-07 0.012777 *
## 1728 2.14e-02 1.004 3.26e-05 0.001363
## 1729 3.81e-03 1.005 1.03e-06 0.001342
## 1730 1.16e-02 1.004 9.62e-06 0.000960
## 1731 -6.21e-05 1.004 2.76e-10 0.000789
## 1732 -2.05e-03 1.005 2.99e-07 0.001356
## 1733 2.69e-02 1.004 5.18e-05 0.001915
## 1734 -4.05e-02 1.007 1.17e-04 0.004713
## 1735 1.16e-02 1.004 9.60e-06 0.001049
## 1736 1.02e-02 1.004 7.47e-06 0.001189
## 1737 -1.07e-01 0.995 8.18e-04 0.003120
## 1738 2.98e-02 1.004 6.34e-05 0.002093
## 1739 5.00e-03 1.005 1.79e-06 0.001496
## 1740 7.42e-03 1.004 3.93e-06 0.000985
## 1741 -4.74e-03 1.005 1.60e-06 0.001504
## 1742 -2.57e-02 1.006 4.73e-05 0.003408
## 1743 -2.32e-02 1.004 3.84e-05 0.001686
## 1744 -4.03e-02 1.001 1.16e-04 0.001397
## 1745 1.57e-02 1.003 1.77e-05 0.000877
## 1746 -1.30e-01 0.988 1.20e-03 0.003031 *
## 1747 -1.39e-02 1.004 1.37e-05 0.001530
## 1748 -1.13e-02 1.005 9.20e-06 0.001656
## 1749 -3.58e-03 1.005 9.15e-07 0.001667
## 1750 -2.08e-02 1.004 3.08e-05 0.001621
## 1751 -2.79e-03 1.005 5.56e-07 0.001439
## 1752 -2.64e-02 1.003 4.99e-05 0.001558
## 1753 4.59e-03 1.005 1.51e-06 0.002135
## 1754 -2.80e-03 1.005 5.59e-07 0.001987
## 1755 2.06e-02 1.006 3.04e-05 0.003162
## 1756 -5.19e-03 1.005 1.92e-06 0.001572
## 1757 -5.48e-03 1.005 2.14e-06 0.001439
## 1758 1.34e-02 1.004 1.28e-05 0.001449
## 1759 -1.13e-02 1.005 9.11e-06 0.001540
## 1760 -1.87e-02 1.004 2.50e-05 0.001804
## 1761 -3.63e-02 1.003 9.40e-05 0.001875
## 1762 1.77e-02 1.004 2.23e-05 0.001412
## 1763 1.71e-02 1.005 2.08e-05 0.002222
## 1764 8.69e-03 1.004 5.40e-06 0.001196
## 1765 -1.79e-02 1.007 2.29e-05 0.003949
## 1766 -6.17e-03 1.004 2.72e-06 0.000823
## 1767 8.69e-03 1.004 5.40e-06 0.000758
## 1768 1.48e-02 1.003 1.57e-05 0.000825
## 1769 6.36e-03 1.004 2.89e-06 0.001028
## 1770 6.36e-03 1.004 2.89e-06 0.001028
## 1771 1.88e-02 1.003 2.51e-05 0.001027
## 1772 -1.46e-02 1.005 1.52e-05 0.002110
## 1773 1.24e-03 1.005 1.10e-07 0.001964
## 1774 2.38e-02 1.006 4.05e-05 0.003691

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## 1775  1.57e-02 1.066 1.76e-05 0.059026 *
## 1776  1.91e-01 1.064 2.62e-03 0.059026 *
## 1777 -3.46e-02 1.066 8.53e-05 0.059026 *
## 1778  1.37e-01 1.065 1.35e-03 0.059026 *
## 1779  1.46e-01 1.065 1.52e-03 0.059226 *
## 1780  5.38e-03 1.066 2.07e-06 0.059026 *
## 1781  1.44e-01 1.065 1.48e-03 0.059226 *
## 1782  2.96e-02 1.066 6.27e-05 0.059026 *
## 1783 -1.59e-02 1.004 1.80e-05 0.001678
## 1784 -1.11e-02 1.007 8.76e-06 0.003854
## 1785 -2.68e-02 1.003 5.13e-05 0.001408
## 1786  1.40e-02 1.003 1.39e-05 0.000774
## 1787  7.11e-03 1.004 3.61e-06 0.001271
## 1788 -3.89e-02 1.006 1.08e-04 0.003708
## 1789  1.80e-02 1.004 2.33e-05 0.001376
## 1790  1.79e-02 1.004 2.29e-05 0.001585
## 1791  5.73e-03 1.004 2.34e-06 0.001099
## 1792 -9.05e-02 1.014 5.85e-04 0.012878 *
## 1793 -2.28e-03 1.004 3.71e-07 0.000885
## 1794 -8.42e-03 1.004 5.07e-06 0.001160
## 1795 -6.59e-03 1.005 3.11e-06 0.001714
## 1796  2.04e-01 1.064 2.96e-03 0.059009 *
## 1797  7.29e-03 1.005 3.80e-06 0.001526
## 1798 -7.27e-02 1.002 3.78e-04 0.003654
## 1799  4.16e-02 0.999 1.24e-04 0.000982
## 1800 -1.16e-01 0.992 9.65e-04 0.003111
## 1801 -1.16e-01 0.992 9.65e-04 0.003111
## 1802 -1.57e-02 1.004 1.75e-05 0.001452
## 1803  8.00e-03 1.005 4.57e-06 0.001527
## 1804 -1.89e-02 1.006 2.56e-05 0.002807
## 1805 -1.71e-02 1.005 2.10e-05 0.001795
## 1806 -1.25e-02 1.004 1.11e-05 0.001425
## 1807 -1.33e-01 0.993 1.26e-03 0.003877
## 1808 -3.08e-02 1.004 6.78e-05 0.002372
## 1809  1.17e-02 1.004 9.71e-06 0.001404
## 1810 -8.06e-02 1.001 4.64e-04 0.003482
## 1811  1.09e-02 1.050 8.46e-06 0.044106 *
## 1812 -3.28e-02 1.008 7.68e-05 0.005081
## 1813 -5.46e-02 1.017 2.13e-04 0.014328 *
## 1814  4.52e-02 1.003 1.46e-04 0.002685
## 1815 -1.86e-02 1.016 2.48e-05 0.012969 *
## 1816  6.29e-03 1.004 2.82e-06 0.000891
## 1817  1.37e-02 1.004 1.35e-05 0.001332
## 1818  5.26e-03 1.005 1.97e-06 0.001334
## 1819 -4.78e-03 1.007 1.63e-06 0.003978
## 1820  2.53e-02 1.006 4.57e-05 0.003656
## 1821 -2.04e-02 1.004 2.98e-05 0.001763
## 1822  5.33e-03 1.004 2.03e-06 0.001190
## 1823 -4.25e-03 1.004 1.29e-06 0.001132
## 1824  2.78e-02 1.004 5.54e-05 0.001938
## 1825  1.45e-02 1.004 1.50e-05 0.001298
## 1826  3.95e-02 1.006 1.12e-04 0.003656
## 1827 -8.44e-03 1.004 5.09e-06 0.000829
## 1828 -3.41e-02 1.006 8.30e-05 0.003608

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## 1829 -1.54e-02 1.004 1.70e-05 0.001183
## 1830 6.57e-02 1.003 3.08e-04 0.003776
## 1831 -7.95e-03 1.017 4.52e-06 0.013956 *
## 1832 -3.73e-04 1.004 9.92e-09 0.000858
## 1833 -2.65e-02 1.007 5.01e-05 0.003957
## 1834 -2.57e-02 1.006 4.73e-05 0.003408
## 1835 2.71e-01 0.931 5.22e-03 0.003036 *
## 1836 1.46e-02 1.006 1.53e-05 0.003020
## 1837 4.14e-01 0.835 1.21e-02 0.002952 *
## 1838 -9.08e-03 1.004 5.89e-06 0.000843
## 1839 7.86e-03 1.005 4.42e-06 0.001569
## 1840 -1.07e-01 0.994 8.24e-04 0.003015
## 1841 3.55e-03 1.014 8.98e-07 0.010153 *
## 1842 2.32e-03 1.014 3.86e-07 0.010140 *
## 1843 -1.13e-01 0.993 9.05e-04 0.003020
## 1844 -2.00e-02 1.004 2.86e-05 0.001549
## 1845 2.03e-01 1.004 2.94e-03 0.011762 *
## 1846 -2.95e-02 1.013 6.22e-05 0.010234 *
## 1847 -6.86e-03 1.005 3.37e-06 0.001493
## 1848 -2.48e-02 1.006 4.38e-05 0.002962
## 1849 3.48e-03 1.006 8.66e-07 0.002831
## 1850 -1.98e-02 1.004 2.81e-05 0.001629
## 1851 4.47e-02 1.013 1.42e-04 0.010206 *
## 1852 -8.21e-02 1.011 4.82e-04 0.010189 *
## 1853 -1.51e-02 1.009 1.64e-05 0.005541
## 1854 7.80e-03 1.005 4.35e-06 0.001565
## 1855 -2.29e-02 1.004 3.76e-05 0.001585
## 1856 -2.53e-02 1.002 4.56e-05 0.000866
## 1857 -2.40e-02 1.002 4.10e-05 0.000899
## 1858 -8.25e-03 1.004 4.86e-06 0.001339
## 1859 7.32e-03 1.004 3.82e-06 0.000828
## 1860 7.56e-04 1.004 4.08e-08 0.000819
## 1861 -1.94e-02 1.004 2.69e-05 0.001422
## 1862 1.20e-02 1.005 1.03e-05 0.002076
## 1863 1.53e-02 1.003 1.68e-05 0.000818
## 1864 1.77e-02 1.003 2.24e-05 0.001077
## 1865 3.17e-02 1.002 7.18e-05 0.001149
## 1866 1.75e-02 1.004 2.20e-05 0.001605
## 1867 8.69e-03 1.005 5.39e-06 0.001678
## 1868 2.84e-02 1.006 5.77e-05 0.003797
## 1869 -3.39e-03 1.005 8.21e-07 0.001404
## 1870 -2.68e-03 1.004 5.12e-07 0.000836
## 1871 -8.74e-03 1.004 5.46e-06 0.000765
## 1872 -1.80e-02 1.003 2.32e-05 0.000926
## 1873 -2.41e-02 1.003 4.14e-05 0.001446
## 1874 -1.56e-03 1.004 1.73e-07 0.000756
## 1875 -2.29e-02 1.004 3.76e-05 0.001585
## 1876 -2.53e-02 1.002 4.56e-05 0.000866
## 1877 -2.53e-02 1.003 4.58e-05 0.001211
## 1878 -2.40e-02 1.002 4.10e-05 0.000899
## 1879 -8.25e-03 1.004 4.86e-06 0.001339
## 1880 7.32e-03 1.004 3.82e-06 0.000828
## 1881 7.56e-04 1.004 4.08e-08 0.000819
## 1882 -1.94e-02 1.004 2.69e-05 0.001422

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## 1883 2.21e-02 1.003 3.49e-05 0.000977
## 1884 1.20e-02 1.005 1.03e-05 0.002076
## 1885 1.53e-02 1.003 1.68e-05 0.000818
## 1886 3.17e-02 1.001 7.20e-05 0.000905
## 1887 1.77e-02 1.003 2.24e-05 0.001077
## 1888 3.17e-02 1.002 7.18e-05 0.001149
## 1889 -5.69e-03 1.004 2.31e-06 0.000807
## 1890 1.75e-02 1.004 2.20e-05 0.001605
## 1891 8.69e-03 1.005 5.39e-06 0.001678
## 1892 5.78e-04 1.005 2.38e-08 0.001551
## 1893 9.54e-03 1.005 6.50e-06 0.001869
## 1894 2.84e-02 1.006 5.77e-05 0.003797
## 1895 9.16e-03 1.007 5.99e-06 0.003630
## 1896 -1.12e-02 1.004 8.90e-06 0.001181
## 1897 -5.22e-03 1.004 1.95e-06 0.001160
## 1898 1.74e-02 1.005 2.16e-05 0.002274
## 1899 -7.40e-03 1.004 3.92e-06 0.000896
## 1900 -1.00e-02 1.004 7.20e-06 0.001249
## 1901 -1.98e-02 1.004 2.80e-05 0.001604
## 1902 -1.39e-02 1.004 1.37e-05 0.001499
## 1903 -1.49e-02 1.005 1.59e-05 0.002060
## 1904 -8.12e-02 0.999 4.70e-04 0.003049
## 1905 -9.51e-02 0.997 6.45e-04 0.003117
## 1906 -1.73e-02 1.004 2.14e-05 0.001556
## 1907 -1.88e-02 1.004 2.53e-05 0.001513
## 1908 -1.39e-02 1.006 1.38e-05 0.003185
## 1909 -1.55e-02 1.004 1.71e-05 0.001508
## 1910 -4.77e-03 1.004 1.63e-06 0.000745
## 1911 -8.24e-02 0.999 4.85e-04 0.002964
## 1912 -1.08e-01 0.994 8.29e-04 0.002997
## 1913 -1.26e-01 0.990 1.14e-03 0.003198
## 1914 1.12e-02 1.004 8.89e-06 0.001415
## 1915 2.49e-02 1.003 4.41e-05 0.001135
## 1916 1.44e-01 0.985 1.48e-03 0.003066 *
## 1917 -8.69e-03 1.004 5.39e-06 0.000860
## 1918 -3.14e-02 1.004 7.05e-05 0.002078
## 1919 2.33e-03 1.004 3.89e-07 0.001002
## 1920 -1.81e-02 1.004 2.35e-05 0.001206
## 1921 8.99e-03 1.004 5.78e-06 0.001182
## 1922 1.15e-02 1.004 9.47e-06 0.001294
## 1923 1.34e-02 1.004 1.29e-05 0.001510
## 1924 6.39e-03 1.007 2.92e-06 0.003547
## 1925 -2.92e-02 1.002 6.09e-05 0.001230
## 1926 -1.82e-02 1.004 2.36e-05 0.001240
## 1927 2.62e-02 1.002 4.90e-05 0.001077
## 1928 3.86e-02 1.007 1.06e-04 0.004493
## 1929 -3.95e-03 1.004 1.11e-06 0.001246
## 1930 7.02e-04 1.004 3.52e-08 0.001126
## 1931 -2.55e-03 1.004 4.63e-07 0.000780
## 1932 -1.46e-02 1.004 1.53e-05 0.001192
## 1933 1.81e-02 1.005 2.34e-05 0.001958
## 1934 6.64e-02 1.015 3.15e-04 0.013115 *
## 1935 4.75e-03 1.004 1.61e-06 0.001162
## 1936 -1.20e-02 1.005 1.03e-05 0.002198

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## 1937  1.74e-03 1.004 2.16e-07 0.001177
## 1938 -1.97e-02 1.005 2.78e-05 0.001926
## 1939  1.01e-02 1.005 7.25e-06 0.002151
## 1940  1.66e-02 1.006 1.98e-05 0.003253
## 1941  3.92e-03 1.005 1.10e-06 0.001307
## 1942  3.49e-02 1.006 8.73e-05 0.003950
## 1943  5.93e-02 1.049 2.51e-04 0.044298 *
## 1944  5.91e-02 1.005 2.50e-04 0.004273
## 1945 -2.59e-02 1.003 4.78e-05 0.001181
## 1946  1.12e-02 1.004 8.99e-06 0.001262
## 1947 -9.02e-04 1.005 5.81e-08 0.001729
## 1948  3.59e-03 1.005 9.23e-07 0.001644
## 1949  2.02e-02 1.007 2.91e-05 0.003762
## 1950 -1.50e-03 1.004 1.62e-07 0.000779
## 1951 -1.88e-03 1.005 2.52e-07 0.001380
## 1952 -1.49e-02 1.004 1.58e-05 0.001234
## 1953 -2.29e-02 1.003 3.76e-05 0.001079
## 1954 -1.46e-02 1.005 1.53e-05 0.002026
## 1955  4.64e-03 1.004 1.54e-06 0.001126
## 1956 -1.66e-03 1.004 1.96e-07 0.001098
## 1957 -4.89e-02 1.005 1.71e-04 0.003708
## 1958  1.09e-02 1.004 8.47e-06 0.001350
## 1959 -2.16e-02 1.003 3.32e-05 0.001303
## 1960  2.28e-02 1.007 3.72e-05 0.004302
## 1961  7.94e-03 1.004 4.50e-06 0.000852
## 1962 -9.57e-03 1.007 6.54e-06 0.003776
## 1963 -7.55e-03 1.005 4.07e-06 0.001696
## 1964  1.37e-02 1.004 1.34e-05 0.001610
## 1965 -1.22e-05 1.004 1.07e-11 0.001053
## 1966 -1.17e-03 1.005 9.75e-08 0.001560
## 1967  3.21e-03 1.004 7.34e-07 0.000876
## 1968 -3.98e-03 1.004 1.13e-06 0.001039
## 1969  3.04e-03 1.007 6.62e-07 0.003753
## 1970 -1.81e-02 1.003 2.34e-05 0.001149
## 1971  2.53e-02 1.007 4.57e-05 0.004223
## 1972  2.49e-02 1.003 4.41e-05 0.001135
## 1973  4.15e-02 1.008 1.23e-04 0.005334
## 1974  1.09e-02 1.004 8.49e-06 0.001009
## 1975  7.87e-02 0.991 4.42e-04 0.001431
## 1976 -9.52e-03 1.004 6.47e-06 0.000882
## 1977 -4.42e-05 1.004 1.39e-10 0.000908
## 1978  1.44e-01 0.985 1.48e-03 0.003066 *
## 1979 -8.69e-03 1.004 5.39e-06 0.000860
## 1980 -6.06e-03 1.004 2.62e-06 0.000927
## 1981  3.21e-03 1.004 7.34e-07 0.000876
## 1982 -8.08e-03 1.005 4.67e-06 0.001537
## 1983 -1.63e-03 1.004 1.89e-07 0.001240
## 1984 -3.14e-02 1.004 7.05e-05 0.002078
## 1985  3.58e-03 1.004 9.18e-07 0.001283
## 1986  6.28e-03 1.005 2.82e-06 0.001353
## 1987  2.33e-03 1.004 3.89e-07 0.001002
## 1988  4.44e-03 1.004 1.41e-06 0.000972
## 1989 -4.82e-02 1.004 1.66e-04 0.002960
## 1990  3.07e-02 1.003 6.74e-05 0.001583

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## 1991 -1.81e-02 1.004 2.35e-05 0.001206
## 1992 -2.42e-02 1.002 4.19e-05 0.000857
## 1993 -3.51e-02 1.003 8.80e-05 0.001766
## 1994 9.67e-03 1.007 6.68e-06 0.003779
## 1995 -7.97e-03 1.004 4.54e-06 0.000890
## 1996 -3.06e-03 1.004 6.68e-07 0.000865
## 1997 6.77e-04 1.004 3.28e-08 0.001182
## 1998 -1.67e-02 1.003 1.99e-05 0.000800
## 1999 1.49e-02 1.050 1.58e-05 0.044184 *
## 2000 6.68e-02 1.005 3.18e-04 0.004869
## 2001 -7.81e-04 1.004 4.36e-08 0.000803
## 2002 1.34e-02 1.004 1.28e-05 0.001415
## 2003 2.93e-03 1.004 6.14e-07 0.001189
## 2004 -7.79e-03 1.005 4.34e-06 0.001536
## 2005 -7.44e-03 1.004 3.95e-06 0.000780
## 2006 -1.27e-02 1.004 1.14e-05 0.001064
## 2007 1.37e-03 1.005 1.34e-07 0.001307
## 2008 7.99e-03 1.004 4.56e-06 0.000978
## 2009 -4.19e-03 1.004 1.26e-06 0.001248
## 2010 -2.34e-02 1.003 3.91e-05 0.001049
## 2011 2.83e-03 1.004 5.71e-07 0.001126
## 2012 1.07e-02 1.007 8.17e-06 0.003624
## 2013 3.77e-02 1.006 1.01e-04 0.003822
## 2014 -4.84e-02 1.030 1.67e-04 0.026626 *
## 2015 5.31e-05 1.006 2.02e-10 0.003174
## 2016 7.36e-03 1.005 3.87e-06 0.001549
## 2017 2.42e-02 1.003 4.17e-05 0.001445
## 2018 6.77e-03 1.004 3.27e-06 0.000745
## 2019 5.01e-03 1.004 1.80e-06 0.001232
## 2020 -2.45e-03 1.005 4.30e-07 0.001307
## 2021 -1.72e-02 1.004 2.12e-05 0.001560
## 2022 -1.72e-02 1.004 2.12e-05 0.001560
## 2023 1.20e-02 1.004 1.04e-05 0.001024
## 2024 -2.46e-02 1.004 4.31e-05 0.001757
## 2025 -3.31e-02 1.002 7.84e-05 0.001504
## 2026 -1.25e-03 1.005 1.11e-07 0.001685
## 2027 -3.35e-02 1.002 8.01e-05 0.001504
## 2028 -1.57e-02 1.004 1.76e-05 0.001466
## 2029 4.36e-02 1.006 1.36e-04 0.004351
## 2030 -3.36e-02 1.002 8.06e-05 0.001504
## 2031 -1.12e-02 1.007 8.90e-06 0.003662
## 2032 -7.05e-04 1.005 3.55e-08 0.001491
## 2033 -3.90e-02 1.004 1.08e-04 0.002810
## 2034 -1.22e-02 1.004 1.06e-05 0.001557
## 2035 3.74e-02 1.001 9.98e-05 0.001258
## 2036 1.94e-02 1.005 2.69e-05 0.002518
## 2037 1.92e-02 1.005 2.62e-05 0.002518
## 2038 -1.82e-02 1.004 2.36e-05 0.001763
## 2039 -1.99e-02 1.004 2.84e-05 0.001639
## 2040 -2.45e-02 1.003 4.27e-05 0.001508
## 2041 -2.77e-02 1.003 5.50e-05 0.001487
## 2042 -1.85e-02 1.004 2.45e-05 0.001447
## 2043 9.93e-03 1.004 7.04e-06 0.000995
## 2044 -1.05e-02 1.005 7.92e-06 0.001705

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## 2045 8.61e-02 1.008 5.30e-04 0.007844
## 2046 -1.48e-02 1.004 1.57e-05 0.001469
## 2047 -1.80e-02 1.003 2.32e-05 0.000803
## 2048 -1.48e-02 1.004 1.57e-05 0.001469
## 2049 -1.90e-02 1.007 2.59e-05 0.003730
## 2050 -7.79e-03 1.004 4.34e-06 0.000780
## 2051 -1.91e-02 1.004 2.62e-05 0.001259
## 2052 -1.25e-02 1.004 1.11e-05 0.001259
## 2053 2.97e-03 1.004 6.30e-07 0.001228
## 2054 -1.47e-02 1.004 1.54e-05 0.001271
## 2055 1.91e-02 1.006 2.61e-05 0.003554
## 2056 1.90e-02 1.007 2.59e-05 0.003762
## 2057 -1.29e-02 1.049 1.19e-05 0.043895 *
## 2058 -3.21e-03 1.004 7.35e-07 0.001228
## 2059 8.55e-03 1.004 5.23e-06 0.001290
## 2060 -1.46e-02 1.007 1.52e-05 0.003784
## 2061 -5.17e-02 1.016 1.91e-04 0.013001 *
## 2062 -1.72e-02 1.004 2.12e-05 0.001664
## 2063 3.03e-02 1.001 6.57e-05 0.000961
## 2064 -1.05e-02 1.004 7.91e-06 0.001287
## 2065 5.24e-04 1.005 1.97e-08 0.001563
## 2066 -1.76e-02 1.003 2.22e-05 0.000802
## 2067 -2.39e-02 1.007 4.07e-05 0.004016
## 2068 -7.63e-03 1.004 4.16e-06 0.001137
## 2069 -1.13e-01 0.996 9.06e-04 0.003683
## 2070 -3.59e-03 1.004 9.21e-07 0.000905
## 2071 1.32e-02 1.004 1.24e-05 0.001302
## 2072 7.04e-03 1.004 3.54e-06 0.001262
## 2073 6.90e-03 1.004 3.40e-06 0.001059
## 2074 -1.67e-03 1.005 1.98e-07 0.001814
## 2075 -2.01e-02 1.003 2.89e-05 0.001003
## 2076 -4.77e-03 1.004 1.62e-06 0.000829
## 2077 2.14e-03 1.005 3.26e-07 0.001575
## 2078 1.07e-02 1.004 8.16e-06 0.001245
## 2079 -6.14e-03 1.005 2.70e-06 0.001511
## 2080 -3.68e-03 1.004 9.70e-07 0.000807
## 2081 -2.81e-03 1.005 5.66e-07 0.001498
## 2082 -5.11e-03 1.005 1.86e-06 0.001442
## 2083 1.73e-02 1.004 2.13e-05 0.001202
## 2084 2.30e-03 1.005 3.78e-07 0.001447
## 2085 5.23e-03 1.005 1.95e-06 0.001843
## 2086 -1.13e-01 0.994 9.14e-04 0.003191
## 2087 -2.11e-02 1.004 3.19e-05 0.001458
## 2088 5.64e-03 1.004 2.27e-06 0.000738
## 2089 -7.52e-03 1.004 4.04e-06 0.000786
## 2090 -1.28e-01 0.989 1.18e-03 0.003080 *
## 2091 -1.15e-02 1.004 9.42e-06 0.001009
## 2092 1.38e-02 1.004 1.36e-05 0.001060
## 2093 -4.87e-03 1.030 1.70e-06 0.026023 *
## 2094 -1.02e-01 0.995 7.37e-04 0.003046
## 2095 -1.07e-01 0.995 8.12e-04 0.003175
## 2096 -1.04e-02 1.005 7.71e-06 0.001728
## 2097 3.64e-03 1.004 9.44e-07 0.000987
## 2098 8.93e-02 1.015 5.69e-04 0.013811 *

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## 2099  2.27e-02 1.007 3.69e-05 0.003818
## 2100 -1.01e-02 1.004 7.36e-06 0.000836
## 2101 -9.51e-03 1.004 6.46e-06 0.001111
## 2102 -1.85e-02 1.003 2.44e-05 0.001149
## 2103 -9.47e-03 1.004 6.41e-06 0.000865
## 2104  2.99e-03 1.005 6.37e-07 0.001739
## 2105 -1.36e-02 1.004 1.32e-05 0.001297
## 2106 -1.22e-02 1.004 1.07e-05 0.000933
## 2107  4.36e-03 1.004 1.36e-06 0.000965
## 2108  1.37e-04 1.004 1.33e-09 0.001057
## 2109 -1.48e-02 1.004 1.56e-05 0.001111
## 2110 -7.85e-03 1.004 4.40e-06 0.000920
## 2111  7.47e-03 1.004 3.99e-06 0.001196
## 2112  1.64e-02 1.004 1.92e-05 0.001670
## 2113  5.35e-03 1.004 2.05e-06 0.000985
## 2114 -5.91e-03 1.005 2.50e-06 0.001547
## 2115 -4.60e-03 1.004 1.51e-06 0.001282
## 2116  1.46e-02 1.004 1.52e-05 0.001040
## 2117 -2.98e-02 1.004 6.34e-05 0.002418
## 2118 -4.87e-02 1.007 1.70e-04 0.005088
## 2119 -2.35e-02 1.004 3.95e-05 0.001826
## 2120 -3.09e-03 1.005 6.81e-07 0.002081
## 2121 -1.68e-04 1.006 2.03e-09 0.002426
## 2122 -2.74e-02 1.005 5.35e-05 0.002386
## 2123 -4.33e-04 1.004 1.34e-08 0.001098
## 2124  7.78e-03 1.004 4.33e-06 0.001003
## 2125  1.03e-02 1.008 7.53e-06 0.005110
## 2126 -1.68e-02 1.007 2.02e-05 0.004024
## 2127  6.34e-03 1.004 2.87e-06 0.001174
## 2128 -2.60e-02 1.006 4.82e-05 0.003748
## 2129  4.33e-02 1.005 1.34e-04 0.003762
## 2130  6.70e-02 0.999 3.21e-04 0.002142
## 2131 -2.68e-02 1.003 5.14e-05 0.001636
## 2132 -2.12e-03 1.005 3.22e-07 0.001404
## 2133 -1.35e-02 1.004 1.30e-05 0.001287
## 2134 -4.29e-02 1.001 1.31e-04 0.001587
## 2135 -2.86e-02 1.002 5.85e-05 0.000977
## 2136 -2.41e-02 1.003 4.15e-05 0.001303
## 2137 -3.68e-02 1.006 9.70e-05 0.003920
## 2138 -2.02e-02 1.004 2.92e-05 0.001481
## 2139  5.64e-02 0.994 2.27e-04 0.001027
## 2140  2.44e-02 1.003 4.25e-05 0.001189
## 2141  4.68e-02 0.999 1.57e-04 0.001362
## 2142 -8.64e-03 1.004 5.33e-06 0.000767
## 2143 -7.40e-03 1.004 3.91e-06 0.001325
## 2144 -9.30e-04 1.004 6.18e-08 0.001017
## 2145 -9.24e-03 1.004 6.09e-06 0.000743
## 2146 -7.19e-03 1.004 3.69e-06 0.000897
## 2147 -1.91e-02 1.004 2.60e-05 0.001622
## 2148 -7.61e-03 1.005 4.14e-06 0.001802
## 2149  2.56e-03 1.005 4.68e-07 0.001751
## 2150  9.11e-02 1.029 5.93e-04 0.026464  *
## 2151 -1.90e-02 1.002 2.59e-05 0.000772
## 2152 -1.28e-03 1.004 1.16e-07 0.000782

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## 2153 6.11e-03 1.005 2.66e-06 0.001547
## 2154 5.31e-04 1.004 2.02e-08 0.001177
## 2155 4.82e-02 1.000 1.66e-04 0.001488
## 2156 -3.96e-03 1.006 1.12e-06 0.002635
## 2157 -2.48e-02 1.006 4.38e-05 0.003710
## 2158 1.22e-02 1.004 1.06e-05 0.001337
## 2159 -7.43e-03 1.005 3.94e-06 0.001596
## 2160 -6.99e-03 1.004 3.49e-06 0.000779
## 2161 3.69e-02 1.007 9.74e-05 0.004523
## 2162 -1.13e-02 1.004 9.14e-06 0.001049
## 2163 2.45e-02 1.007 4.30e-05 0.003789
## 2164 4.20e-03 1.007 1.26e-06 0.003595
## 2165 -3.78e-03 1.004 1.02e-06 0.001231
## 2166 -1.14e-02 1.004 9.34e-06 0.000803
## 2167 -1.85e-02 1.003 2.45e-05 0.001186
## 2168 -1.33e-01 0.996 1.27e-03 0.004892
## 2169 -2.80e-02 1.003 5.61e-05 0.001501
## 2170 -7.65e-03 1.004 4.18e-06 0.000740
## 2171 -1.63e-02 1.004 1.89e-05 0.001380
## 2172 -2.57e-02 1.003 4.72e-05 0.001475
## 2173 -7.43e-03 1.004 3.94e-06 0.000829
## 2174 7.99e-02 0.991 4.56e-04 0.001483
## 2175 -1.30e-02 1.006 1.20e-05 0.002856
## 2176 1.41e-01 0.992 1.42e-03 0.004124
## 2177 6.68e-03 1.006 3.18e-06 0.003098
## 2178 -2.95e-02 1.005 6.21e-05 0.003123
## 2179 4.27e-01 0.855 1.29e-02 0.003570 *
## 2180 3.55e-03 1.014 8.98e-07 0.010153 *
## 2181 -2.95e-02 1.013 6.22e-05 0.010234 *
## 2182 4.47e-02 1.013 1.42e-04 0.010206 *
## 2183 -7.79e-02 1.004 4.33e-04 0.004546
## 2184 -1.12e-01 1.010 8.97e-04 0.010200 *
## 2185 -2.75e-01 0.998 5.41e-03 0.013306 *
## 2186 -3.29e-02 1.013 7.74e-05 0.010123 *
## 2187 -2.88e-02 1.013 5.92e-05 0.010185 *
## 2188 -1.48e-01 1.011 1.56e-03 0.013079 *
## 2189 5.11e-02 1.013 1.87e-04 0.010318 *
## 2190 -9.25e-02 0.998 6.11e-04 0.003323
## 2191 9.98e-03 1.008 7.11e-06 0.004472
## 2192 3.91e-03 1.004 1.09e-06 0.001114
## 2193 3.29e-04 1.004 7.75e-09 0.000970
## 2194 4.87e-02 1.007 1.69e-04 0.004968
## 2195 5.62e-02 1.015 2.25e-04 0.012830 *
## 2196 -5.76e-03 1.005 2.37e-06 0.001477
## 2197 -8.28e-03 1.005 4.90e-06 0.001470
## 2198 -1.47e-01 0.999 1.55e-03 0.006414
## 2199 2.85e-02 1.004 5.80e-05 0.002141
## 2200 -1.25e-03 1.004 1.11e-07 0.000934
## 2201 7.37e-04 1.004 3.88e-08 0.000808
## 2202 1.06e-02 1.007 8.02e-06 0.003558
## 2203 -5.45e-05 1.004 2.12e-10 0.000987
## 2204 5.61e-03 1.006 2.25e-06 0.002381
## 2205 -2.53e-02 1.003 4.58e-05 0.001211
## 2206 9.54e-03 1.005 6.50e-06 0.001869

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## 2207 3.30e-03 1.005 7.80e-07 0.001545
## 2208 -9.91e-03 1.004 7.02e-06 0.000970
## 2209 -9.59e-04 1.004 6.57e-08 0.000918
## 2210 5.86e-04 1.005 2.45e-08 0.001419
## 2211 1.17e-02 1.004 9.78e-06 0.001366
## 2212 1.84e-02 1.004 2.43e-05 0.001540
## 2213 5.91e-02 0.999 2.50e-04 0.001760
## 2214 1.50e-02 1.004 1.61e-05 0.001470
## 2215 -3.17e-02 1.003 7.17e-05 0.001828
## 2216 2.24e-02 1.004 3.59e-05 0.001934
## 2217 -2.78e-02 1.009 5.52e-05 0.006253
## 2218 -1.48e-02 1.004 1.56e-05 0.001111
## 2219 4.10e-02 1.016 1.20e-04 0.012734 *
## 2220 -2.30e-02 1.002 3.79e-05 0.000988
## 2221 -2.88e-02 1.002 5.94e-05 0.001102
## 2222 -2.10e-02 1.002 3.14e-05 0.000822
## 2223 -4.59e-03 1.005 1.51e-06 0.001749
## 2224 4.04e-02 1.005 1.17e-04 0.003138
## 2225 6.56e-02 0.997 3.07e-04 0.001767
## 2226 1.31e-02 1.004 1.23e-05 0.001219
## 2227 -1.29e-02 1.003 1.18e-05 0.000836
## 2228 -2.00e-02 1.007 2.86e-05 0.003749
## 2229 -6.76e-04 1.004 3.27e-08 0.000886
## 2230 -9.30e-02 0.998 6.17e-04 0.003225
## 2231 -4.77e-03 1.004 1.63e-06 0.000960
## 2232 5.57e-03 1.005 2.22e-06 0.001333
## 2233 8.74e-03 1.005 5.46e-06 0.001528
## 2234 -1.25e-02 1.004 1.12e-05 0.001325
## 2235 7.05e-03 1.004 3.55e-06 0.001276
## 2236 7.80e-03 1.004 4.35e-06 0.000829
## 2237 -2.57e-02 1.006 4.73e-05 0.003408
## 2238 2.71e-01 0.931 5.22e-03 0.003036 *
## 2239 1.46e-02 1.006 1.53e-05 0.003020
## 2240 4.14e-01 0.835 1.21e-02 0.002952 *
## 2241 -9.08e-03 1.004 5.89e-06 0.000843
## 2242 7.86e-03 1.005 4.42e-06 0.001569
## 2243 -1.07e-01 0.994 8.24e-04 0.003015
## 2244 3.55e-03 1.014 8.98e-07 0.010153 *
## 2245 2.32e-03 1.014 3.86e-07 0.010140 *
## 2246 -1.13e-01 0.993 9.05e-04 0.003020
## 2247 -2.00e-02 1.004 2.86e-05 0.001549
## 2248 2.03e-01 1.004 2.94e-03 0.011762 *
## 2249 -2.95e-02 1.013 6.22e-05 0.010234 *
## 2250 -6.86e-03 1.005 3.37e-06 0.001493
## 2251 -2.48e-02 1.006 4.38e-05 0.002962
## 2252 3.48e-03 1.006 8.66e-07 0.002831
## 2253 -1.98e-02 1.004 2.81e-05 0.001629
## 2254 4.47e-02 1.013 1.42e-04 0.010206 *
## 2255 -8.21e-02 1.011 4.82e-04 0.010189 *
## 2256 -2.57e-02 1.006 4.73e-05 0.003408
## 2257 2.71e-01 0.931 5.22e-03 0.003036 *
## 2258 1.46e-02 1.006 1.53e-05 0.003020
## 2259 4.14e-01 0.835 1.21e-02 0.002952 *
## 2260 -9.08e-03 1.004 5.89e-06 0.000843

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## 2261 7.86e-03 1.005 4.42e-06 0.001569
## 2262 -1.07e-01 0.994 8.24e-04 0.003015
## 2263 3.55e-03 1.014 8.98e-07 0.010153 *
## 2264 2.32e-03 1.014 3.86e-07 0.010140 *
## 2265 -1.13e-01 0.993 9.05e-04 0.003020
## 2266 -2.00e-02 1.004 2.86e-05 0.001549
## 2267 2.03e-01 1.004 2.94e-03 0.011762 *
## 2268 -2.95e-02 1.013 6.22e-05 0.010234 *
## 2269 -6.86e-03 1.005 3.37e-06 0.001493
## 2270 -2.48e-02 1.006 4.38e-05 0.002962
## 2271 3.48e-03 1.006 8.66e-07 0.002831
## 2272 -1.98e-02 1.004 2.81e-05 0.001629
## 2273 4.47e-02 1.013 1.42e-04 0.010206 *
## 2274 -8.21e-02 1.011 4.82e-04 0.010189 *
## 2275 -2.54e-03 1.004 4.61e-07 0.000866
## 2276 -1.08e-03 1.004 8.26e-08 0.001188
## 2277 -2.42e-03 1.004 4.20e-07 0.000886
## 2278 2.06e-04 1.006 3.03e-09 0.002307
## 2279 1.20e-02 1.019 1.03e-05 0.015075 *
## 2280 -4.46e-04 1.004 1.42e-08 0.001038
## 2281 -6.75e-03 1.004 3.26e-06 0.000836
## 2282 -2.32e-03 1.004 3.84e-07 0.001120
## 2283 -2.04e-03 1.004 2.97e-07 0.001259
## 2284 -6.50e-04 1.008 3.02e-08 0.004907
## 2285 -1.27e-02 1.004 1.15e-05 0.000988
## 2286 3.48e-03 1.006 8.66e-07 0.002831
## 2287 -1.05e-01 0.994 7.84e-04 0.002831
## 2288 3.63e-03 1.006 9.42e-07 0.002783
## 2289 -1.31e-01 0.989 1.23e-03 0.003220 *
## 2290 -8.65e-03 1.004 5.35e-06 0.000807
## 2291 -1.19e-01 0.995 1.01e-03 0.003899
## 2292 -5.88e-02 1.003 2.47e-04 0.003332
## 2293 9.14e-03 1.006 5.96e-06 0.002428
## 2294 -3.81e-02 1.008 1.04e-04 0.005225
## 2295 -5.51e-03 1.005 2.17e-06 0.001725
## 2296 2.80e-01 0.923 5.58e-03 0.002929 *
## 2297 -3.90e-03 1.005 1.09e-06 0.001577
## 2298 -1.63e-02 1.004 1.89e-05 0.001657
## 2299 -2.22e-02 1.004 3.52e-05 0.001485
## 2300 6.71e-02 1.001 3.22e-04 0.003016
## 2301 -2.08e-02 1.004 3.10e-05 0.001538
## 2302 8.04e-03 1.005 4.61e-06 0.001420
## 2303 8.03e-03 1.004 4.60e-06 0.001301
## 2304 -1.56e-02 1.004 1.74e-05 0.001542
## 2305 3.27e-03 1.004 7.65e-07 0.001208
## 2306 -8.92e-03 1.004 5.68e-06 0.001294
## 2307 -2.68e-02 1.002 5.13e-05 0.001192
## 2308 9.27e-03 1.005 6.15e-06 0.001451
## 2309 -3.28e-02 1.002 7.70e-05 0.001217
## 2310 -1.42e-02 1.004 1.44e-05 0.000957
## 2311 -1.78e-02 1.003 2.27e-05 0.001059
## 2312 -3.53e-03 1.004 8.89e-07 0.000776
## 2313 1.29e-02 1.004 1.18e-05 0.000942
## 2314 -5.88e-03 1.005 2.47e-06 0.001758

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## 2315 -8.02e-03 1.005 4.60e-06 0.001817
## 2316 -2.78e-02 1.009 5.52e-05 0.006253
## 2317 -2.88e-02 1.002 5.94e-05 0.001102
## 2318 -4.59e-03 1.005 1.51e-06 0.001749
## 2319 6.56e-02 0.997 3.07e-04 0.001767
## 2320 -6.76e-04 1.004 3.27e-08 0.000886
## 2321 -9.30e-02 0.998 6.17e-04 0.003225
## 2322 -1.25e-02 1.004 1.12e-05 0.001325
## 2323 7.05e-03 1.004 3.55e-06 0.001276
## 2324 2.33e-01 0.953 3.86e-03 0.003174 *
## 2325 -4.99e-03 1.005 1.78e-06 0.001697
## 2326 -1.13e-01 1.002 9.04e-04 0.005905
## 2327 1.62e-02 1.005 1.88e-05 0.001807
## 2328 -8.89e-03 1.004 5.65e-06 0.000908
## 2329 -1.72e-03 1.005 2.12e-07 0.001581
## 2330 1.65e-02 1.005 1.94e-05 0.001877
## 2331 1.44e-02 1.005 1.49e-05 0.002014
## 2332 1.42e-03 1.004 1.45e-07 0.000852
## 2333 1.05e-02 1.005 7.90e-06 0.001680
## 2334 2.48e-02 1.003 4.39e-05 0.001203
## 2335 4.85e-03 1.004 1.68e-06 0.001003
## 2336 9.93e-03 1.004 7.04e-06 0.000995
## 2337 -1.05e-02 1.005 7.92e-06 0.001705
## 2338 8.61e-02 1.008 5.30e-04 0.007844
## 2339 -1.48e-02 1.004 1.57e-05 0.001469
## 2340 -1.80e-02 1.003 2.32e-05 0.000803
## 2341 -1.48e-02 1.004 1.57e-05 0.001469
## 2342 -4.10e-03 1.004 1.20e-06 0.000875
## 2343 6.28e-02 1.009 2.82e-04 0.007688
## 2344 1.49e-03 1.004 1.58e-07 0.000809
## 2345 -3.17e-03 1.005 7.18e-07 0.001440
## 2346 1.41e-02 1.005 1.42e-05 0.001757
## 2347 -1.26e-02 1.004 1.13e-05 0.001535
## 2348 3.36e-04 1.004 8.06e-09 0.000760
## 2349 6.06e-02 1.000 2.62e-04 0.002076
## 2350 -1.48e-02 1.004 1.57e-05 0.001676
## 2351 -1.88e-03 1.007 2.54e-07 0.003633
## 2352 6.71e-02 1.000 3.22e-04 0.002564
## 2353 -9.81e-03 1.005 6.87e-06 0.001639
## 2354 -7.75e-03 1.007 4.29e-06 0.003817
## 2355 -8.90e-03 1.004 5.66e-06 0.000774
## 2356 -5.38e-03 1.005 2.06e-06 0.001462
## 2357 2.83e-03 1.005 5.73e-07 0.001277
## 2358 8.64e-03 1.005 5.33e-06 0.001624
## 2359 4.29e-02 1.002 1.31e-04 0.001952
## 2360 1.80e-01 1.065 2.31e-03 0.059244 *
## 2361 -1.59e-01 1.065 1.80e-03 0.059026 *
## 2362 -3.42e-03 1.005 8.34e-07 0.001758
## 2363 -9.21e-02 1.066 6.07e-04 0.059205 *
## 2364 -2.63e-02 1.004 4.95e-05 0.001674
## 2365 3.43e-02 1.001 8.41e-05 0.001065
## 2366 2.93e-02 1.001 6.15e-05 0.000927
## 2367 3.42e-02 1.001 8.37e-05 0.001070
## 2368 -1.80e-02 1.003 2.30e-05 0.000896

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## 2369  5.18e-02 0.998 1.92e-04 0.001276
## 2370 -4.50e-03 1.005 1.44e-06 0.001698
## 2371 -1.85e-02 1.003 2.43e-05 0.000779
## 2372 -4.92e-03 1.004 1.73e-06 0.000959
## 2373  1.76e-02 1.003 2.21e-05 0.001058
## 2374 -9.86e-02 1.002 6.94e-04 0.005037
## 2375 -9.39e-03 1.005 6.30e-06 0.001923
## 2376 -9.50e-03 1.004 6.45e-06 0.000873
## 2377  1.46e-03 1.005 1.52e-07 0.001772
## 2378 -1.06e-02 1.004 8.05e-06 0.001452
## 2379  6.41e-03 1.004 2.93e-06 0.001107
## 2380 -2.25e-02 1.004 3.62e-05 0.001787
## 2381 -2.40e-02 1.051 4.12e-05 0.045076 *
## 2382  2.76e-04 1.005 5.45e-09 0.001411
## 2383 -2.54e-02 1.004 4.61e-05 0.001755
## 2384  4.77e-03 1.005 1.63e-06 0.001535
## 2385 -1.19e-03 1.006 1.02e-07 0.002348
## 2386 -3.03e-02 1.005 6.57e-05 0.002715
## 2387 -6.27e-03 1.005 2.81e-06 0.001448
## 2388 -1.42e-02 1.004 1.44e-05 0.001447
## 2389 -8.21e-03 1.005 4.81e-06 0.001424
## 2390  1.20e-02 1.006 1.03e-05 0.002459
## 2391  4.45e-03 1.006 1.41e-06 0.002284
## 2392 -2.70e-03 1.004 5.23e-07 0.000994
## 2393 -2.27e-02 1.004 3.69e-05 0.001607
## 2394 -1.48e-02 1.005 1.57e-05 0.001977
## 2395  5.38e-02 1.014 2.07e-04 0.011191 *
## 2396  9.94e-03 1.004 7.06e-06 0.001058
## 2397 -1.64e-03 1.004 1.93e-07 0.001219
## 2398 -1.61e-02 1.004 1.85e-05 0.001070
## 2399  1.03e-02 1.004 7.54e-06 0.001415
## 2400  5.90e-03 1.004 2.49e-06 0.000780
## 2401 -1.64e-02 1.004 1.93e-05 0.001217
## 2402  7.41e-02 1.006 3.92e-04 0.005587
## 2403  1.95e-02 1.007 2.72e-05 0.004357
## 2404 -1.51e-03 1.005 1.62e-07 0.001438
## 2405 -2.48e-02 1.006 4.41e-05 0.003113
## 2406  1.17e-02 1.005 9.73e-06 0.002425
## 2407  4.57e-02 1.001 1.49e-04 0.001765
## 2408 -4.26e-03 1.005 1.29e-06 0.001644
## 2409 -5.30e-04 1.006 2.00e-08 0.002848
## 2410  1.87e-02 1.006 2.51e-05 0.002798
## 2411  1.36e-02 1.005 1.32e-05 0.002112
## 2412  6.73e-03 1.004 3.24e-06 0.001043
## 2413 -4.85e-04 1.005 1.68e-08 0.001293
## 2414 -1.29e-02 1.003 1.18e-05 0.000836
## 2415  6.25e-03 1.004 2.79e-06 0.001211
## 2416  3.14e-02 1.002 7.02e-05 0.001236
## 2417  1.44e-02 1.003 1.48e-05 0.000822
## 2418 -9.16e-04 1.004 6.00e-08 0.000947
## 2419 -1.28e-02 1.003 1.16e-05 0.000858
## 2420 -8.63e-03 1.004 5.32e-06 0.001040
## 2421 -2.90e-02 1.002 6.02e-05 0.001067
## 2422  1.98e-03 1.004 2.79e-07 0.000947

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## 2423 -1.91e-03 1.004 2.61e-07 0.000897
## 2424  2.90e-03 1.004 6.02e-07 0.001264
## 2425  8.49e-04 1.004 5.15e-08 0.001114
## 2426  4.42e-02 0.999 1.39e-04 0.001211
## 2427  3.36e-03 1.004 8.05e-07 0.000780
## 2428  2.30e-02 1.003 3.79e-05 0.001254
## 2429  3.90e-02 1.000 1.09e-04 0.001049
## 2430 -5.23e-03 1.007 1.96e-06 0.003576
## 2431 -3.75e-03 1.004 1.01e-06 0.000800
## 2432  3.24e-02 1.006 7.50e-05 0.004029
## 2433 -1.93e-02 1.004 2.65e-05 0.001262
## 2434  2.38e-03 1.005 4.06e-07 0.001563
## 2435  1.38e-02 1.004 1.35e-05 0.001280
## 2436  1.44e-02 1.004 1.49e-05 0.001207
## 2437  5.43e-03 1.004 2.11e-06 0.001211
## 2438 -1.40e-02 1.004 1.40e-05 0.001296
## 2439 -2.19e-02 1.004 3.43e-05 0.001476
## 2440  3.04e-03 1.005 6.58e-07 0.001351
## 2441  3.58e-02 1.004 9.15e-05 0.002284
## 2442  3.34e-02 1.003 7.96e-05 0.001568
## 2443  7.89e-03 1.005 4.45e-06 0.001462
## 2444 -1.05e-02 1.004 7.84e-06 0.000773
## 2445  1.89e-02 1.007 2.55e-05 0.004275
## 2446  8.13e-03 1.005 4.72e-06 0.001528
## 2447 -1.01e-02 1.004 7.34e-06 0.001212
## 2448  4.51e-02 1.000 1.46e-04 0.001362
## 2449 -3.34e-02 1.002 7.96e-05 0.001550
## 2450 -2.56e-02 1.004 4.67e-05 0.001781
## 2451 -1.05e-01 0.995 7.82e-04 0.003123
## 2452  3.09e-02 1.003 6.81e-05 0.001685
## 2453  3.56e-03 1.005 9.05e-07 0.001477
## 2454 -2.93e-03 1.005 6.15e-07 0.001642
## 2455  9.78e-03 1.004 6.84e-06 0.001135
## 2456  1.05e-02 1.005 7.82e-06 0.001603
## 2457 -4.00e-03 1.005 1.14e-06 0.001955
## 2458 -1.35e-01 0.987 1.30e-03 0.003027 *
## 2459 -1.64e-02 1.004 1.91e-05 0.001561
## 2460 -1.77e-02 1.004 2.25e-05 0.001630
## 2461 -1.39e-02 1.004 1.38e-05 0.001473
## 2462 -1.24e-01 0.990 1.10e-03 0.002970 *
## 2463  1.12e-02 1.005 8.98e-06 0.001617
## 2464  1.35e-02 1.004 1.30e-05 0.001416
## 2465 -2.95e-02 1.003 6.20e-05 0.001771
## 2466 -5.73e-03 1.006 2.35e-06 0.002629
## 2467  2.86e-02 1.003 5.84e-05 0.001424
## 2468 -3.36e-03 1.005 8.07e-07 0.001574
## 2469 -3.52e-03 1.005 8.87e-07 0.001442
## 2470 -6.07e-03 1.007 2.63e-06 0.004045
## 2471 -3.76e-03 1.004 1.01e-06 0.001278
## 2472 -7.43e-03 1.005 3.95e-06 0.001567
## 2473  6.32e-03 1.004 2.85e-06 0.001258
## 2474 -2.00e-02 1.004 2.86e-05 0.001470
## 2475  9.52e-03 1.004 6.47e-06 0.001387
## 2476  5.49e-03 1.004 2.15e-06 0.001112

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## 2477 -5.81e-03 1.005 2.41e-06 0.001466
## 2478 -9.08e-03 1.004 5.89e-06 0.000843
## 2479 -6.52e-03 1.005 3.04e-06 0.001527
## 2480 -1.03e-05 1.004 7.65e-12 0.000899
## 2481 3.64e-04 1.005 9.46e-09 0.001950
## 2482 -4.01e-03 1.005 1.15e-06 0.001466
## 2483 -3.02e-02 1.005 6.50e-05 0.003084
## 2484 -1.01e-01 0.996 7.35e-04 0.003200
## 2485 -4.07e-02 1.001 1.18e-04 0.001555
## 2486 -1.57e-01 0.990 1.75e-03 0.004377 *
## 2487 4.42e-04 1.005 1.40e-08 0.001412
## 2488 4.42e-03 1.004 1.39e-06 0.000805
## 2489 -2.45e-02 1.003 4.30e-05 0.001486
## 2490 1.30e-02 1.005 1.20e-05 0.001770
## 2491 -1.09e-02 1.004 8.48e-06 0.001286
## 2492 -2.85e-05 1.004 5.79e-11 0.001077
## 2493 -1.89e-02 1.003 2.55e-05 0.000938
## 2494 -3.19e-02 1.031 7.27e-05 0.026741 *
## 2495 9.41e-03 1.004 6.32e-06 0.001386
## 2496 3.46e-02 1.010 8.57e-05 0.007191 *
## 2497 -2.89e-02 1.002 5.95e-05 0.001219
## 2498 1.74e-02 1.005 2.15e-05 0.002396
## 2499 -2.60e-02 1.002 4.83e-05 0.000988
## 2500 5.94e-02 1.004 2.52e-04 0.003532
## 2501 -2.29e-02 1.004 3.76e-05 0.001481
## 2502 -2.29e-02 1.004 3.76e-05 0.001481
## 2503 -1.08e-03 1.005 8.41e-08 0.001397
## 2504 2.04e-01 0.965 2.96e-03 0.003215 *
## 2505 -5.39e-03 1.004 2.08e-06 0.000994
## 2506 -4.73e-03 1.004 1.60e-06 0.001108
## 2507 6.62e-03 1.005 3.13e-06 0.001412
## 2508 3.94e-04 1.005 1.11e-08 0.001297
## 2509 8.26e-04 1.004 4.87e-08 0.000869
## 2510 -4.10e-03 1.004 1.20e-06 0.000875
## 2511 -7.78e-03 1.004 4.33e-06 0.001040
## 2512 6.31e-02 1.001 2.84e-04 0.002639
## 2513 -2.27e-02 1.003 3.70e-05 0.001272
## 2514 -1.07e-02 1.004 8.11e-06 0.000980
## 2515 -1.07e-02 1.004 8.11e-06 0.000980
## 2516 1.83e-03 1.006 2.40e-07 0.002778
## 2517 -3.51e-03 1.004 8.79e-07 0.001227
## 2518 8.67e-03 1.004 5.36e-06 0.001294
## 2519 4.45e-02 1.007 1.42e-04 0.005135
## 2520 8.89e-03 1.004 5.64e-06 0.001376
## 2521 -9.04e-03 1.004 5.83e-06 0.001212
## 2522 -2.57e-02 1.006 4.73e-05 0.003408
## 2523 -2.32e-02 1.004 3.84e-05 0.001686
## 2524 7.86e-03 1.005 4.42e-06 0.001569
## 2525 -4.03e-02 1.001 1.16e-04 0.001397
## 2526 2.39e-02 1.005 4.08e-05 0.002207
## 2527 5.54e-03 1.004 2.19e-06 0.001165
## 2528 1.57e-02 1.003 1.77e-05 0.000877
## 2529 -2.32e-02 1.002 3.86e-05 0.000873
## 2530 -2.68e-02 1.002 5.13e-05 0.001192

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## 2531  1.06e-02 1.005 7.96e-06 0.001869
## 2532 -1.30e-01 0.988 1.20e-03 0.003031 *
## 2533 -1.18e-01 0.992 9.93e-04 0.003099
## 2534 -1.39e-02 1.004 1.37e-05 0.001530
## 2535 -1.13e-02 1.005 9.20e-06 0.001656
## 2536 -3.58e-03 1.005 9.15e-07 0.001667
## 2537 -2.08e-02 1.004 3.08e-05 0.001621
## 2538 -2.79e-03 1.005 5.56e-07 0.001439
## 2539 -2.64e-02 1.003 4.99e-05 0.001558
## 2540  4.59e-03 1.005 1.51e-06 0.002135
## 2541 -2.80e-03 1.005 5.59e-07 0.001987
## 2542  3.85e-02 1.004 1.06e-04 0.002797
## 2543 -1.21e-02 1.004 1.05e-05 0.000980
## 2544 -6.84e-03 1.004 3.34e-06 0.001178
## 2545  1.72e-02 1.003 2.11e-05 0.001002
## 2546 -1.35e-02 1.004 1.30e-05 0.001211
## 2547  3.76e-02 1.062 1.01e-04 0.055163 *
## 2548  7.81e-04 1.008 4.36e-08 0.004396
## 2549 -1.83e-03 1.004 2.39e-07 0.001023
## 2550  2.14e-02 1.006 3.28e-05 0.003620
## 2551  2.52e-03 1.005 4.55e-07 0.001744
## 2552  2.27e-02 1.004 3.69e-05 0.001762
## 2553  5.29e-04 1.005 2.00e-08 0.001689
## 2554  4.61e-02 1.005 1.52e-04 0.003410
## 2555 -7.57e-03 1.005 4.10e-06 0.001999
## 2556  2.54e-02 1.005 4.61e-05 0.002437
## 2557 -1.59e-02 1.003 1.82e-05 0.000772
## 2558 -2.46e-02 1.002 4.34e-05 0.000866
## 2559 -1.31e-03 1.005 1.22e-07 0.001466
## 2560  1.08e-02 1.007 8.31e-06 0.003620
## 2561  4.81e-02 1.006 1.65e-04 0.004121
## 2562  7.18e-03 1.004 3.68e-06 0.001301
## 2563  1.58e-02 1.004 1.78e-05 0.001269
## 2564  2.35e-02 1.005 3.95e-05 0.002655
## 2565 -9.54e-02 0.997 6.49e-04 0.003112
## 2566  1.12e-03 1.005 8.92e-08 0.001572
## 2567  4.83e-02 1.000 1.67e-04 0.001662
## 2568  8.74e-03 1.004 5.46e-06 0.000774
## 2569  7.79e-03 1.004 4.33e-06 0.001049
## 2570  1.40e-02 1.006 1.41e-05 0.002727
## 2571 -4.56e-05 1.006 1.49e-10 0.002672
## 2572 -2.65e-02 1.003 5.02e-05 0.001467
## 2573 -6.18e-03 1.007 2.73e-06 0.004087
## 2574 -2.22e-02 1.004 3.53e-05 0.001531
## 2575  1.67e-01 0.976 2.00e-03 0.002996 *
## 2576 -3.54e-02 1.005 8.95e-05 0.003232
## 2577 -2.54e-02 1.005 4.62e-05 0.002617
## 2578  1.13e-02 1.003 9.05e-06 0.000745
## 2579 -4.48e-02 1.004 1.43e-04 0.002978
## 2580 -1.20e-01 0.994 1.03e-03 0.003624
## 2581  4.05e-01 0.849 1.16e-02 0.003099 *
## 2582 -7.27e-02 1.001 3.77e-04 0.003015
## 2583  1.53e-01 0.983 1.67e-03 0.003253 *
## 2584 -2.30e-02 1.002 3.79e-05 0.000988

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## 2585 3.32e-03 1.005 7.87e-07 0.001321
## 2586 2.37e-02 1.006 4.00e-05 0.003708
## 2587 1.73e-02 1.004 2.13e-05 0.001293
## 2588 1.26e-02 1.004 1.13e-05 0.001235
## 2589 5.68e-03 1.005 2.30e-06 0.002048
## 2590 -8.76e-03 1.005 5.49e-06 0.001559
## 2591 1.38e-02 1.004 1.37e-05 0.000987
## 2592 -5.66e-04 1.005 2.29e-08 0.002066
## 2593 -2.26e-02 1.003 3.64e-05 0.001272
## 2594 -2.00e-02 1.007 2.86e-05 0.003749
## 2595 -4.23e-03 1.004 1.28e-06 0.000891
## 2596 -4.52e-03 1.006 1.46e-06 0.002479
## 2597 -1.11e-02 1.004 8.81e-06 0.001217
## 2598 7.80e-02 0.989 4.35e-04 0.001287 *
## 2599 -5.58e-02 1.004 2.22e-04 0.003521
## 2600 -2.52e-03 1.004 4.53e-07 0.001059
## 2601 5.98e-03 1.004 2.55e-06 0.001285
## 2602 -1.54e-03 1.004 1.70e-07 0.001196
## 2603 1.91e-03 1.004 2.61e-07 0.000889
## 2604 8.02e-03 1.005 4.59e-06 0.001869
## 2605 6.70e-03 1.004 3.21e-06 0.001293
## 2606 2.79e-02 1.005 5.57e-05 0.002437
## 2607 -7.14e-03 1.004 3.64e-06 0.000902
## 2608 -1.06e-03 1.004 8.01e-08 0.000774
## 2609 2.62e-02 1.004 4.89e-05 0.002066
## 2610 -2.26e-03 1.006 3.64e-07 0.002328
## 2611 -1.15e-01 0.993 9.36e-04 0.003111
## 2612 -1.62e-02 1.003 1.88e-05 0.001028
## 2613 5.17e-02 0.997 1.91e-04 0.001219
## 2614 -1.38e-02 1.004 1.36e-05 0.001070
## 2615 2.58e-02 1.002 4.75e-05 0.000957
## 2616 -1.81e-02 1.004 2.35e-05 0.001294
## 2617 1.24e-01 0.992 1.10e-03 0.003326
## 2618 4.02e-03 1.004 1.15e-06 0.000790
## 2619 -1.38e-02 1.003 1.37e-05 0.000902
## 2620 2.73e-02 1.003 5.33e-05 0.001450
## 2621 -1.11e-03 1.005 8.85e-08 0.001746
## 2622 -3.52e-03 1.005 8.84e-07 0.001960
## 2623 -2.86e-02 1.005 5.84e-05 0.002481
## 2624 1.77e-02 1.006 2.25e-05 0.003465
## 2625 -3.11e-04 1.006 6.91e-09 0.002532
## 2626 -1.02e-02 1.005 7.37e-06 0.001687
## 2627 -6.03e-03 1.004 2.60e-06 0.001251
## 2628 8.45e-03 1.004 5.10e-06 0.000995
## 2629 -1.16e-02 1.005 9.59e-06 0.001622
## 2630 -3.87e-02 1.002 1.07e-04 0.001606
## 2631 1.06e-02 1.005 7.95e-06 0.001559
## 2632 6.19e-03 1.005 2.74e-06 0.001562
## 2633 -3.30e-02 1.003 7.79e-05 0.001554
## 2634 6.52e-03 1.005 3.04e-06 0.001582
## 2635 1.72e-02 1.003 2.11e-05 0.001002
## 2636 5.28e-02 1.005 1.99e-04 0.004062
## 2637 -1.01e-02 1.004 7.29e-06 0.000803
## 2638 -1.00e-02 1.004 7.17e-06 0.001160

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## 2639  1.46e-02 1.004 1.51e-05 0.001376
## 2640 -2.32e-02 1.002 3.86e-05 0.000873
## 2641  2.05e-03 1.004 3.00e-07 0.000973
## 2642  2.39e-03 1.009 4.08e-07 0.006019
## 2643  6.10e-03 1.004 2.66e-06 0.001338
## 2644 -5.39e-02 1.005 2.08e-04 0.004216
## 2645  1.76e-02 1.007 2.22e-05 0.004069
## 2646  1.64e-02 1.007 1.93e-05 0.003716
## 2647 -1.31e-01 0.993 1.23e-03 0.003884
## 2648 -2.12e-02 1.004 3.21e-05 0.001475
## 2649  8.57e-03 1.005 5.24e-06 0.001821
## 2650 -9.93e-03 1.004 7.04e-06 0.001187
## 2651 -3.33e-03 1.005 7.93e-07 0.001845
## 2652  2.66e-02 1.006 5.06e-05 0.003693
## 2653 -3.77e-03 1.007 1.01e-06 0.003537
## 2654  1.71e-02 1.004 2.09e-05 0.001186
## 2655  4.27e-03 1.005 1.30e-06 0.002052
## 2656  1.06e-01 0.996 8.08e-04 0.003313
## 2657  1.41e-02 1.004 1.43e-05 0.001522
## 2658 -8.99e-03 1.004 5.78e-06 0.001299
## 2659  1.73e-02 1.004 2.13e-05 0.001536
## 2660 -1.39e-02 1.004 1.37e-05 0.001601
## 2661  6.70e-03 1.005 3.20e-06 0.001408
## 2662  1.57e-02 1.017 1.76e-05 0.014056 *
## 2663  5.14e-03 1.006 1.89e-06 0.002385
## 2664  2.98e-02 1.004 6.34e-05 0.002093
## 2665  5.00e-03 1.005 1.79e-06 0.001496
## 2666  7.42e-03 1.004 3.93e-06 0.000985
## 2667 -2.09e-02 1.003 3.12e-05 0.001272
## 2668  8.35e-03 1.006 4.99e-06 0.002877
## 2669 -2.09e-03 1.004 3.12e-07 0.000800
## 2670 -7.36e-03 1.004 3.87e-06 0.001321
## 2671 -1.95e-02 1.004 2.72e-05 0.001296
## 2672 -3.21e-02 1.003 7.38e-05 0.001675
## 2673 -1.14e-02 1.007 9.35e-06 0.003636
## 2674 -1.38e-02 1.004 1.36e-05 0.001070
## 2675  2.58e-02 1.002 4.75e-05 0.000957
## 2676 -1.81e-02 1.004 2.35e-05 0.001294
## 2677  1.09e-03 1.004 8.55e-08 0.000927
## 2678 -7.03e-03 1.004 3.54e-06 0.001193
## 2679 -1.36e-02 1.005 1.32e-05 0.001941
## 2680  1.55e-02 1.003 1.71e-05 0.000940
## 2681  6.36e-03 1.004 2.89e-06 0.000986
## 2682 -2.45e-02 1.003 4.28e-05 0.001287
## 2683 -4.51e-03 1.004 1.45e-06 0.001000
## 2684  6.79e-03 1.004 3.29e-06 0.001321
## 2685 -1.42e-02 1.003 1.44e-05 0.000905
## 2686  1.76e-02 1.007 2.21e-05 0.003949
## 2687  8.48e-04 1.007 5.13e-08 0.003648
## 2688  2.29e-03 1.004 3.76e-07 0.001058
## 2689 -9.08e-03 1.004 5.90e-06 0.001234
## 2690  1.10e-02 1.004 8.67e-06 0.000987
## 2691  1.79e-02 1.006 2.29e-05 0.003020
## 2692  4.02e-03 1.004 1.15e-06 0.000790

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## 2693 -7.95e-03 1.004 4.51e-06 0.000940
## 2694 5.39e-04 1.004 2.07e-08 0.000943
## 2695 1.09e-02 1.004 8.53e-06 0.001266
## 2696 -1.70e-02 1.004 2.07e-05 0.001662
## 2697 4.43e-02 1.003 1.40e-04 0.002275
## 2698 -1.34e-02 1.004 1.28e-05 0.001060
## 2699 2.26e-02 1.005 3.64e-05 0.002547
## 2700 3.22e-02 1.003 7.42e-05 0.001527
## 2701 -1.24e-01 0.991 1.09e-03 0.003123
## 2702 -7.94e-03 1.004 4.50e-06 0.000858
## 2703 -4.73e-03 1.005 1.60e-06 0.001462
## 2704 -2.12e-04 1.005 3.21e-09 0.001570
## 2705 8.46e-02 0.979 5.10e-04 0.000899 *
## 2706 2.46e-03 1.004 4.32e-07 0.001219
## 2707 2.75e-03 1.005 5.40e-07 0.001656
## 2708 -3.00e-03 1.004 6.43e-07 0.000924
## 2709 -2.10e-04 1.005 3.15e-09 0.001294
## 2710 2.34e-02 1.003 3.92e-05 0.001196
## 2711 2.48e-02 1.006 4.40e-05 0.003589
## 2712 7.11e-03 1.005 3.61e-06 0.001783
## 2713 -1.26e-01 1.001 1.14e-03 0.005974
## 2714 -1.29e-02 1.004 1.18e-05 0.001568
## 2715 6.48e-03 1.004 3.00e-06 0.000800
## 2716 -1.72e-02 1.006 2.11e-05 0.003479
## 2717 -1.69e-02 1.004 2.05e-05 0.001278
## 2718 9.78e-03 1.004 6.84e-06 0.001418
## 2719 -4.20e-02 1.004 1.26e-04 0.002980
## 2720 -2.07e-02 1.003 3.08e-05 0.000945
## 2721 -2.86e-02 1.003 5.83e-05 0.001712
## 2722 5.66e-03 1.004 2.29e-06 0.000803
## 2723 1.37e-02 1.004 1.34e-05 0.001232
## 2724 2.92e-02 1.003 6.09e-05 0.001406
## 2725 -1.92e-03 1.004 2.65e-07 0.000790
## 2726 -1.90e-02 1.004 2.57e-05 0.001508
## 2727 -1.23e-01 0.991 1.09e-03 0.003179
## 2728 -4.73e-03 1.004 1.60e-06 0.000818
## 2729 9.46e-03 1.005 6.40e-06 0.001745
## 2730 -1.47e-03 1.004 1.54e-07 0.000905
## 2731 -7.01e-03 1.004 3.51e-06 0.001094
## 2732 2.03e-02 1.003 2.95e-05 0.001182
## 2733 6.85e-04 1.005 3.36e-08 0.001296
## 2734 -6.44e-02 1.002 2.97e-04 0.003191
## 2735 1.27e-02 1.041 1.15e-05 0.035874 *
## 2736 1.70e-02 1.004 2.06e-05 0.001583
## 2737 -2.57e-02 1.006 4.73e-05 0.003408
## 2738 2.71e-01 0.931 5.22e-03 0.003036 *
## 2739 1.46e-02 1.006 1.53e-05 0.003020
## 2740 4.14e-01 0.835 1.21e-02 0.002952 *
## 2741 -9.08e-03 1.004 5.89e-06 0.000843
## 2742 7.86e-03 1.005 4.42e-06 0.001569
## 2743 -1.07e-01 0.994 8.24e-04 0.003015
## 2744 3.55e-03 1.014 8.98e-07 0.010153 *
## 2745 2.32e-03 1.014 3.86e-07 0.010140 *
## 2746 -1.13e-01 0.993 9.05e-04 0.003020

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## 2747 -2.00e-02 1.004 2.86e-05 0.001549
## 2748 2.03e-01 1.004 2.94e-03 0.011762 *
## 2749 -2.95e-02 1.013 6.22e-05 0.010234 *
## 2750 -6.86e-03 1.005 3.37e-06 0.001493
## 2751 -2.48e-02 1.006 4.38e-05 0.002962
## 2752 3.48e-03 1.006 8.66e-07 0.002831
## 2753 -1.98e-02 1.004 2.81e-05 0.001629
## 2754 4.47e-02 1.013 1.42e-04 0.010206 *
## 2755 -8.21e-02 1.011 4.82e-04 0.010189 *
## 2756 -3.81e-03 1.004 1.04e-06 0.001262
## 2757 -3.81e-03 1.004 1.04e-06 0.001262
## 2758 1.82e-02 1.007 2.36e-05 0.003656
## 2759 -4.20e-03 1.004 1.26e-06 0.000760
## 2760 5.18e-03 1.004 1.92e-06 0.001290
## 2761 1.18e-02 1.008 9.94e-06 0.004575
## 2762 -1.17e-02 1.004 9.81e-06 0.001362
## 2763 -1.25e-02 1.004 1.12e-05 0.000927
## 2764 -1.63e-03 1.004 1.89e-07 0.001240
## 2765 -3.51e-03 1.004 8.79e-07 0.001227
## 2766 1.00e-02 1.005 7.20e-06 0.001776
## 2767 3.98e-02 1.004 1.13e-04 0.002724
## 2768 1.88e-02 1.005 2.53e-05 0.002436
## 2769 2.45e-02 1.003 4.28e-05 0.001215
## 2770 -5.36e-03 1.005 2.06e-06 0.001622
## 2771 -4.97e-03 1.005 1.76e-06 0.001660
## 2772 4.47e-02 1.006 1.43e-04 0.004199
## 2773 -2.05e-03 1.004 3.00e-07 0.001178
## 2774 1.22e-02 1.004 1.07e-05 0.000891
## 2775 7.97e-03 1.004 4.54e-06 0.001207
## 2776 9.44e-03 1.004 6.36e-06 0.001332
## 2777 -2.81e-02 1.002 5.63e-05 0.001022
## 2778 5.10e-02 1.006 1.86e-04 0.004760
## 2779 -7.61e-03 1.005 4.14e-06 0.001886
## 2780 8.15e-02 0.985 4.74e-04 0.001112 *
## 2781 1.00e-02 1.005 7.21e-06 0.001794
## 2782 -1.07e-02 1.004 8.19e-06 0.000857
## 2783 -1.61e-01 1.065 1.85e-03 0.059337 *
## 2784 3.30e-02 1.006 7.78e-05 0.003709
## 2785 -2.48e-02 1.006 4.40e-05 0.003555
## 2786 -3.31e-03 1.030 7.82e-07 0.025805 *
## 2787 4.01e-03 1.004 1.15e-06 0.001195
## 2788 -1.67e-02 1.004 1.99e-05 0.001193
## 2789 -2.06e-02 1.003 3.02e-05 0.001174
## 2790 4.78e-04 1.004 1.63e-08 0.001125
## 2791 -4.94e-02 1.006 1.74e-04 0.004427
## 2792 -2.54e-03 1.004 4.62e-07 0.001244
## 2793 -8.49e-04 1.004 5.15e-08 0.000963
## 2794 -2.39e-03 1.004 4.09e-07 0.000906
## 2795 -2.10e-02 1.003 3.15e-05 0.001202
## 2796 -1.33e-02 1.004 1.26e-05 0.000933
## 2797 7.38e-02 1.004 3.89e-04 0.004777
## 2798 1.43e-02 1.005 1.46e-05 0.001947
## 2799 -2.94e-03 1.004 6.18e-07 0.000776
## 2800 -1.40e-03 1.004 1.41e-07 0.000977

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## 2801 -2.16e-02 1.002 3.34e-05 0.000897
## 2802 1.89e-02 1.004 2.54e-05 0.001255
## 2803 -3.24e-02 1.029 7.49e-05 0.025436 *
## 2804 -8.42e-02 1.001 5.07e-04 0.003651
## 2805 2.41e-02 1.052 4.15e-05 0.046828 *
## 2806 -5.17e-04 1.004 1.91e-08 0.001131
## 2807 -2.67e-02 1.005 5.09e-05 0.002453
## 2808 -2.17e-03 1.004 3.37e-07 0.000933
## 2809 -1.72e-02 1.003 2.12e-05 0.001112
## 2810 4.65e-02 0.999 1.54e-04 0.001334
## 2811 -5.88e-03 1.004 2.47e-06 0.001249
## 2812 -3.32e-03 1.005 7.90e-07 0.001334
## 2813 -3.59e-02 1.006 9.19e-05 0.003777
## 2814 -3.16e-02 1.006 7.13e-05 0.003654
## 2815 -1.83e-02 1.003 2.40e-05 0.001058
## 2816 -1.72e-02 1.003 2.11e-05 0.001058
## 2817 -1.72e-03 1.004 2.10e-07 0.000800
## 2818 -2.00e-03 1.004 2.87e-07 0.000852
## 2819 -4.02e-02 1.001 1.15e-04 0.001513
## 2820 5.58e-02 0.996 2.22e-04 0.001219
## 2821 -9.51e-04 1.005 6.46e-08 0.001321
## 2822 4.19e-03 1.005 1.26e-06 0.001673
## 2823 -1.12e-01 1.003 9.01e-04 0.006201
## 2824 -1.74e-01 1.012 2.17e-03 0.015209 *
## 2825 -1.04e-02 1.004 7.72e-06 0.001064
## 2826 1.96e-02 1.003 2.74e-05 0.001212
## 2827 -1.12e-02 1.005 9.04e-06 0.001769
## 2828 -2.88e-02 1.002 5.93e-05 0.001112
## 2829 -5.77e-03 1.004 2.38e-06 0.001184
## 2830 -1.55e-02 1.004 1.72e-05 0.001244
## 2831 8.31e-03 1.005 4.93e-06 0.001752
## 2832 -7.77e-02 1.015 4.31e-04 0.013167 *
## 2833 -1.51e-03 1.004 1.64e-07 0.001003
## 2834 -1.28e-02 1.003 1.16e-05 0.000858
## 2835 -2.44e-02 1.003 4.25e-05 0.001286
## 2836 -4.77e-03 1.004 1.63e-06 0.000928
## 2837 -5.13e-03 1.005 1.88e-06 0.001488
## 2838 6.29e-03 1.006 2.83e-06 0.002658
## 2839 2.95e-03 1.004 6.23e-07 0.000765
## 2840 5.80e-03 1.005 2.40e-06 0.001517
## 2841 -1.72e-02 1.004 2.12e-05 0.001282
## 2842 2.56e-02 1.003 4.69e-05 0.001524
## 2843 8.95e-02 0.998 5.72e-04 0.003223
## 2844 2.45e-02 1.004 4.28e-05 0.001763
## 2845 -6.57e-03 1.004 3.08e-06 0.001095
## 2846 2.78e-02 1.004 5.50e-05 0.001773
## 2847 1.55e-02 1.004 1.71e-05 0.001220
## 2848 4.63e-02 1.001 1.53e-04 0.001634
## 2849 3.71e-02 1.003 9.85e-05 0.001905
## 2850 -8.42e-03 1.007 5.06e-06 0.003745
## 2851 5.46e-02 0.999 2.13e-04 0.001643
## 2852 3.74e-02 1.002 9.99e-05 0.001527
## 2853 1.74e-02 1.003 2.15e-05 0.001059
## 2854 -2.69e-03 1.004 5.18e-07 0.000829

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## 2855  1.57e-02 1.004 1.75e-05 0.001211
## 2856  2.55e-02 1.008 4.66e-05 0.005108
## 2857  7.26e-03 1.004 3.77e-06 0.000818
## 2858 -8.15e-03 1.004 4.75e-06 0.001271
## 2859  5.82e-02 1.001 2.42e-04 0.002339
## 2860 -1.05e-01 0.995 7.82e-04 0.003088
## 2861  4.57e-03 1.004 1.49e-06 0.000815
## 2862  4.47e-03 1.004 1.43e-06 0.001008
## 2863  1.39e-02 1.004 1.38e-05 0.001569
## 2864  6.12e-03 1.004 2.67e-06 0.001058
## 2865 -2.16e-02 1.003 3.35e-05 0.001244
## 2866  8.55e-02 1.000 5.22e-04 0.003582
## 2867  8.09e-03 1.005 4.67e-06 0.001498
## 2868 -4.93e-03 1.004 1.73e-06 0.001012
## 2869  6.80e-03 1.004 3.30e-06 0.001002
## 2870  8.20e-03 1.005 4.80e-06 0.001409
## 2871  1.03e-02 1.005 7.52e-06 0.001632
## 2872 -5.64e-03 1.005 2.28e-06 0.001739
## 2873 -8.44e-03 1.004 5.09e-06 0.000767
## 2874  3.17e-02 1.006 7.20e-05 0.003871
## 2875 -1.31e-01 0.989 1.22e-03 0.003179 *
## 2876 -1.32e-02 1.004 1.24e-05 0.001301
## 2877 -1.06e-02 1.004 8.01e-06 0.000928
## 2878 -6.84e-03 1.004 3.34e-06 0.000818
## 2879 -1.60e-02 1.017 1.83e-05 0.013353 *
## 2880  2.46e-02 1.002 4.33e-05 0.001070
## 2881 -1.40e-02 1.004 1.41e-05 0.001105
## 2882  1.92e-02 1.007 2.63e-05 0.003618
## 2883  2.35e-02 1.005 3.95e-05 0.002655
## 2884 -1.56e-02 1.004 1.73e-05 0.001467
## 2885 -2.94e-02 1.004 6.17e-05 0.001858
## 2886 -1.56e-02 1.004 1.75e-05 0.001480
## 2887 -4.82e-03 1.005 1.66e-06 0.001493
## 2888 -1.15e-01 0.993 9.46e-04 0.003240
## 2889  3.26e-04 1.005 7.60e-09 0.001468
## 2890 -1.26e-02 1.004 1.14e-05 0.001519
## 2891 -2.91e-03 1.004 6.06e-07 0.000805
## 2892  9.13e-03 1.006 5.96e-06 0.002431
## 2893 -3.30e-03 1.005 7.78e-07 0.001711
## 2894 -4.02e-03 1.005 1.16e-06 0.001498
## 2895 -1.02e-02 1.004 7.50e-06 0.001451
## 2896 -2.40e-04 1.005 4.11e-09 0.001457
## 2897 -3.02e-03 1.005 6.52e-07 0.001491
## 2898  1.96e-02 1.005 2.75e-05 0.002473
## 2899 -2.22e-03 1.005 3.52e-07 0.001444
## 2900 -2.71e-03 1.006 5.25e-07 0.002488
## 2901 -8.67e-03 1.008 5.37e-06 0.005229
## 2902 -2.57e-02 1.002 4.72e-05 0.001102
## 2903 -8.57e-03 1.005 5.24e-06 0.001725
## 2904 -5.89e-03 1.004 2.47e-06 0.000790
## 2905  8.75e-02 1.016 5.47e-04 0.014064 *
## 2906  1.08e-02 1.004 8.31e-06 0.001160
## 2907 -6.00e-02 1.003 2.57e-04 0.003299
## 2908  1.60e-02 1.003 1.84e-05 0.000885

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## 2909  9.67e-02 1.016 6.68e-04 0.014272 *
## 2910 -4.15e-03 1.004 1.23e-06 0.001254
## 2911 -1.12e-02 1.010 8.93e-06 0.006459
## 2912  3.30e-03 1.005 7.80e-07 0.001545
## 2913 -1.75e-02 1.004 2.20e-05 0.001398
## 2914 -1.16e-02 1.005 9.62e-06 0.001758
## 2915  3.12e-02 1.000 6.93e-05 0.000776
## 2916 -3.64e-03 1.005 9.46e-07 0.001506
## 2917  3.39e-02 1.003 8.22e-05 0.001752
## 2918 -1.08e-02 1.005 8.34e-06 0.001758
## 2919 -1.72e-02 1.005 2.12e-05 0.002482
## 2920 -1.34e-02 1.004 1.28e-05 0.001272
## 2921  4.95e-03 1.004 1.75e-06 0.001015
## 2922  3.53e-02 1.000 8.88e-05 0.000960
## 2923 -1.75e-02 1.004 2.19e-05 0.001582
## 2924  2.10e-02 1.003 3.14e-05 0.001053
## 2925  7.06e-03 1.016 3.56e-06 0.012780 *
## 2926 -2.05e-02 1.004 3.00e-05 0.001334
## 2927 -1.86e-02 1.004 2.46e-05 0.001545
## 2928 -1.17e-02 1.004 9.85e-06 0.001287
## 2929  1.33e-02 1.007 1.27e-05 0.003802
## 2930  3.04e-02 1.005 6.60e-05 0.002592
## 2931 -1.16e-01 0.997 9.65e-04 0.004152
## 2932 -1.46e-01 0.984 1.51e-03 0.003011 *
## 2933 -9.54e-02 0.997 6.49e-04 0.003112
## 2934 -2.64e-02 1.003 4.98e-05 0.001528
## 2935  1.10e-02 1.005 8.65e-06 0.001688
## 2936 -1.48e-01 0.986 1.56e-03 0.003450 *
## 2937 -9.51e-02 0.996 6.46e-04 0.002813
## 2938  7.77e-03 1.005 4.32e-06 0.001802
## 2939 -9.28e-03 1.005 6.16e-06 0.001666
## 2940 -1.12e-01 0.993 8.96e-04 0.003021
## 2941  2.83e-03 1.005 5.74e-07 0.001659
## 2942 -3.21e-03 1.005 7.37e-07 0.001492
## 2943  6.41e-02 0.997 2.94e-04 0.001737
## 2944  5.46e-03 1.005 2.13e-06 0.001466
## 2945 -1.14e-02 1.004 9.28e-06 0.001439
## 2946 -1.83e-02 1.004 2.39e-05 0.001432
## 2947 -1.46e-02 1.005 1.53e-05 0.001686
## 2948 -1.39e-03 1.005 1.37e-07 0.001479
## 2949 -1.63e-02 1.004 1.89e-05 0.001429
## 2950 -1.16e-01 0.992 9.55e-04 0.003029
## 2951 -2.03e-02 1.004 2.95e-05 0.001689
## 2952 -1.22e-01 0.989 1.06e-03 0.002824 *
## 2953 -8.92e-02 0.999 5.68e-04 0.003305
## 2954 -6.75e-03 1.004 3.26e-06 0.000836
## 2955 -2.38e-02 1.002 4.04e-05 0.000988
## 2956  7.27e-02 1.017 3.77e-04 0.014390 *
## 2957 -1.21e-02 1.004 1.04e-05 0.001072
## 2958  1.74e-02 1.004 2.15e-05 0.001670
## 2959  1.21e-02 1.004 1.05e-05 0.001338
## 2960 -1.12e-02 1.004 8.96e-06 0.001321
## 2961  1.07e-02 1.005 8.24e-06 0.001632
## 2962  3.23e-02 1.010 7.44e-05 0.007042 *

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## 2963 -1.49e-02 1.004 1.58e-05 0.001408
## 2964 3.14e-03 1.004 7.03e-07 0.001228
## 2965 -1.41e-02 1.011 1.43e-05 0.007827 *
## 2966 -7.64e-03 1.004 4.16e-06 0.000743
## 2967 2.77e-02 1.003 5.47e-05 0.001294
## 2968 1.54e-02 1.004 1.70e-05 0.001177
## 2969 1.75e-02 1.004 2.20e-05 0.001401
## 2970 -1.28e-03 1.004 1.16e-07 0.000959
## 2971 -4.74e-03 1.004 1.61e-06 0.000957
## 2972 -1.88e-03 1.005 2.52e-07 0.001380
## 2973 5.25e-02 1.011 1.97e-04 0.008261 *
## 2974 -4.74e-03 1.004 1.61e-06 0.000957
## 2975 1.18e-02 1.030 9.97e-06 0.025724 *
## 2976 -8.79e-03 1.004 5.52e-06 0.001244
## 2977 -2.88e-02 1.002 5.94e-05 0.001134
## 2978 -8.67e-05 1.005 5.37e-10 0.002031
## 2979 -4.53e-03 1.008 1.47e-06 0.004379
## 2980 -5.83e-02 1.003 2.42e-04 0.003147
## 2981 -1.87e-02 1.004 2.50e-05 0.001473
## 2982 1.69e-02 1.003 2.03e-05 0.000848
## 2983 1.69e-02 1.003 2.03e-05 0.000848
## 2984 4.86e-02 0.999 1.68e-04 0.001376
## 2985 -3.87e-03 1.004 1.07e-06 0.000772
## 2986 8.80e-03 1.004 5.53e-06 0.001333
## 2987 5.40e-03 1.005 2.09e-06 0.001597
## 2988 1.55e-02 1.005 1.71e-05 0.002526
## 2989 -2.42e-02 1.002 4.19e-05 0.000857
## 2990 -1.13e-02 1.004 9.09e-06 0.000834
## 2991 3.93e-03 1.005 1.10e-06 0.001518
## 2992 -3.51e-02 1.006 8.80e-05 0.003681
## 2993 -1.12e-02 1.004 8.94e-06 0.000952
## 2994 -1.34e-02 1.004 1.28e-05 0.001060
## 2995 -8.47e-03 1.005 5.13e-06 0.001677
## 2996 -4.72e-03 1.004 1.59e-06 0.001269
## 2997 3.05e-03 1.005 6.64e-07 0.001570
## 2998 -2.48e-03 1.004 4.40e-07 0.000927
## 2999 -7.09e-02 1.015 3.59e-04 0.012721 *
## 3000 -1.81e-02 1.006 2.34e-05 0.002662
## 3001 5.48e-03 1.004 2.15e-06 0.001057
## 3002 7.13e-03 1.005 3.63e-06 0.001790
## 3003 3.04e-02 1.002 6.61e-05 0.001176
## 3004 3.07e-03 1.004 6.74e-07 0.000901
## 3005 -1.59e-02 1.004 1.81e-05 0.001325
## 3006 1.10e-03 1.004 8.61e-08 0.000982
## 3007 1.98e-04 1.004 2.81e-09 0.001246
## 3008 3.39e-02 1.003 8.22e-05 0.001752
## 3009 -2.73e-03 1.004 5.34e-07 0.000863
## 3010 1.99e-02 1.004 2.84e-05 0.001563
## 3011 7.16e-03 1.004 3.67e-06 0.000866
## 3012 -8.12e-04 1.004 4.71e-08 0.000866
## 3013 -5.82e-02 1.017 2.42e-04 0.014364 *
## 3014 -2.33e-02 1.006 3.89e-05 0.003538
## 3015 1.27e-02 1.041 1.16e-05 0.035866 *
## 3016 1.66e-02 1.004 1.96e-05 0.001131

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## 3017  1.21e-02 1.004 1.04e-05 0.000920
## 3018 -2.21e-03 1.005 3.49e-07 0.001336
## 3019  5.74e-03 1.005 2.35e-06 0.002074
## 3020  6.32e-03 1.004 2.85e-06 0.000875
## 3021  1.66e-02 1.016 1.97e-05 0.012596 *
## 3022 -3.38e-03 1.004 8.14e-07 0.000800
## 3023  1.33e-02 1.003 1.27e-05 0.000774
## 3024 -2.09e-02 1.004 3.11e-05 0.001355
## 3025 -1.96e-02 1.004 2.74e-05 0.001466
## 3026 -1.68e-02 1.003 2.01e-05 0.000945
## 3027  5.75e-02 1.006 2.36e-04 0.004720
## 3028 -2.34e-02 1.003 3.92e-05 0.001181
## 3029 -3.78e-02 1.006 1.02e-04 0.003912
## 3030  1.20e-02 1.003 1.04e-05 0.000819
## 3031 -1.17e-02 1.004 9.70e-06 0.000873
## 3032  2.66e-02 1.016 5.04e-05 0.013157 *
## 3033 -2.88e-02 1.006 5.92e-05 0.003729
## 3034  1.01e-02 1.007 7.25e-06 0.003620
## 3035 -2.36e-02 1.005 4.00e-05 0.002348
## 3036 -3.98e-03 1.005 1.13e-06 0.001729
## 3037  4.57e-03 1.005 1.49e-06 0.001506
## 3038  5.48e-03 1.004 2.15e-06 0.001057
## 3039 -2.09e-02 1.003 3.13e-05 0.001164
## 3040  2.00e-02 1.008 2.87e-05 0.004731
## 3041  2.59e-02 1.004 4.80e-05 0.001992
## 3042 -4.93e-02 1.017 1.74e-04 0.013635 *
## 3043 -1.34e-01 0.989 1.28e-03 0.003294 *
## 3044 -3.32e-03 1.004 7.88e-07 0.001126
## 3045 -2.13e-02 1.003 3.25e-05 0.000997
## 3046 -1.09e-01 0.995 8.49e-04 0.003305
## 3047 -5.23e-02 1.004 1.95e-04 0.003320
## 3048 -7.83e-03 1.004 4.38e-06 0.001240
## 3049 -2.27e-02 1.030 3.67e-05 0.025805 *
## 3050  7.16e-03 1.007 3.66e-06 0.003750
## 3051 -2.33e-02 1.004 3.89e-05 0.001483
## 3052 -3.07e-02 1.003 6.72e-05 0.001460
## 3053 -1.92e-02 1.003 2.63e-05 0.000918
## 3054 -1.30e-02 1.004 1.21e-05 0.001070
## 3055  3.10e-03 1.004 6.86e-07 0.000897
## 3056 -9.35e-03 1.004 6.25e-06 0.001296
## 3057  6.80e-03 1.004 3.30e-06 0.001002
## 3058 -2.35e-03 1.005 3.95e-07 0.001300
## 3059 -1.18e-02 1.004 1.00e-05 0.001512
## 3060 -7.72e-03 1.005 4.25e-06 0.001713
## 3061  6.17e-03 1.004 2.72e-06 0.001182
## 3062  1.28e-02 1.007 1.17e-05 0.003599
## 3063 -2.90e-02 1.006 6.01e-05 0.003580
## 3064 -1.11e-02 1.005 8.82e-06 0.001549
## 3065  1.27e-01 0.988 1.16e-03 0.002822 *
## 3066  1.27e-01 0.988 1.14e-03 0.002873 *
## 3067  1.30e-01 0.987 1.21e-03 0.002822 *
## 3068 -9.69e-02 1.001 6.71e-04 0.004408
## 3069  1.30e-02 1.003 1.21e-05 0.000769
## 3070 -8.77e-03 1.004 5.50e-06 0.001038

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## 3071 -1.11e-01 0.998 8.86e-04 0.004165
## 3072 3.21e-03 1.008 7.36e-07 0.004372
## 3073 1.38e-02 1.005 1.37e-05 0.001702
## 3074 -1.72e-02 1.004 2.12e-05 0.001282
## 3075 -3.66e-03 1.004 9.59e-07 0.001211
## 3076 -1.19e-01 0.996 1.02e-03 0.004105
## 3077 7.37e-03 1.005 3.88e-06 0.001727
## 3078 3.83e-02 1.000 1.05e-04 0.001108
## 3079 -1.25e-02 1.004 1.12e-05 0.001149
## 3080 -1.54e-02 1.004 1.70e-05 0.001401
## 3081 -5.32e-03 1.004 2.02e-06 0.000988
## 3082 1.94e-02 1.006 2.69e-05 0.002924
## 3083 -7.05e-02 1.003 3.55e-04 0.003833
## 3084 -1.69e-01 0.993 2.03e-03 0.005857
## 3085 -1.75e-02 1.004 2.18e-05 0.001502
## 3086 -2.21e-02 1.005 3.48e-05 0.002393
## 3087 -1.92e-02 1.003 2.63e-05 0.000822
## 3088 -1.44e-02 1.004 1.48e-05 0.001340
## 3089 1.07e-02 1.005 8.25e-06 0.001520
## 3090 -1.50e-02 1.005 1.60e-05 0.001719
## 3091 -1.01e-02 1.030 7.33e-06 0.026059 *
## 3092 6.93e-03 1.005 3.43e-06 0.001528
## 3093 -6.32e-03 1.005 2.86e-06 0.001437
## 3094 -2.44e-02 1.006 4.25e-05 0.002933
## 3095 -1.73e-02 1.006 2.13e-05 0.003279
## 3096 -5.44e-03 1.005 2.12e-06 0.001437
## 3097 1.74e-02 1.004 2.16e-05 0.001362
## 3098 -1.83e-02 1.003 2.39e-05 0.000828
## 3099 9.46e-03 1.004 6.40e-06 0.001207
## 3100 -3.29e-03 1.004 7.75e-07 0.000801
## 3101 -3.13e-03 1.005 7.00e-07 0.001364
## 3102 -1.86e-02 1.003 2.47e-05 0.000801
## 3103 -1.55e-02 1.004 1.72e-05 0.001211
## 3104 -1.35e-02 1.003 1.30e-05 0.000902
## 3105 -6.41e-04 1.004 2.94e-08 0.001126
## 3106 1.83e-02 1.007 2.39e-05 0.003763
## 3107 6.17e-04 1.005 2.72e-08 0.001303
## 3108 -7.09e-02 1.015 3.59e-04 0.012721 *
## 3109 -1.07e-02 1.005 8.20e-06 0.001766
## 3110 1.34e-02 1.004 1.28e-05 0.001169
## 3111 -1.79e-03 1.004 2.29e-07 0.000960
## 3112 2.71e-02 1.016 5.24e-05 0.012744 *
## 3113 -2.78e-02 1.030 5.53e-05 0.025937 *
## 3114 -2.92e-02 1.002 6.10e-05 0.001306
## 3115 9.62e-03 1.016 6.61e-06 0.012805 *
## 3116 2.17e-02 1.016 3.36e-05 0.012943 *
## 3117 -2.12e-02 1.004 3.22e-05 0.001794
## 3118 7.80e-03 1.004 4.35e-06 0.000829
## 3119 1.85e-02 1.007 2.46e-05 0.003871
## 3120 7.26e-03 1.005 3.76e-06 0.001404
## 3121 -1.30e-04 1.004 1.20e-09 0.001063
## 3122 6.77e-03 1.004 3.27e-06 0.000743
## 3123 -4.93e-02 1.006 1.74e-04 0.004302
## 3124 1.20e-02 1.004 1.03e-05 0.001431

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## 3125 -4.69e-03 1.004 1.57e-06 0.000779
## 3126 -1.36e-02 1.008 1.32e-05 0.004851
## 3127 8.60e-03 1.007 5.28e-06 0.003878
## 3128 7.07e-04 1.008 3.58e-08 0.004241
## 3129 -1.16e-02 1.004 9.56e-06 0.001076
## 3130 -4.89e-03 1.004 1.71e-06 0.001164
## 3131 -3.77e-03 1.007 1.01e-06 0.003677
## 3132 -8.10e-03 1.004 4.69e-06 0.001278
## 3133 1.36e-02 1.005 1.32e-05 0.001757
## 3134 -1.29e-02 1.007 1.18e-05 0.003579
## 3135 -1.05e-02 1.004 7.90e-06 0.001107
## 3136 2.48e-02 1.002 4.40e-05 0.000800
## 3137 -7.87e-03 1.004 4.42e-06 0.000790
## 3138 5.05e-03 1.004 1.83e-06 0.001241
## 3139 2.52e-02 1.003 4.53e-05 0.001518
## 3140 -9.59e-03 1.005 6.57e-06 0.001640
## 3141 1.56e-02 1.005 1.73e-05 0.001757
## 3142 2.39e-02 1.005 4.07e-05 0.002353
## 3143 -2.46e-03 1.004 4.34e-07 0.000985
## 3144 -3.34e-02 1.002 7.96e-05 0.001550
## 3145 -2.56e-02 1.004 4.67e-05 0.001781
## 3146 -1.05e-01 0.995 7.82e-04 0.003123
## 3147 -2.53e-02 1.004 4.57e-05 0.001883
## 3148 3.09e-02 1.003 6.81e-05 0.001685
## 3149 3.56e-03 1.005 9.05e-07 0.001477
## 3150 -2.93e-03 1.005 6.15e-07 0.001642
## 3151 9.78e-03 1.004 6.84e-06 0.001135
## 3152 1.05e-02 1.005 7.82e-06 0.001603
## 3153 -1.35e-01 0.987 1.30e-03 0.003027 *
## 3154 -4.00e-03 1.005 1.14e-06 0.001955
## 3155 -1.64e-02 1.004 1.91e-05 0.001561
## 3156 -1.77e-02 1.004 2.25e-05 0.001630
## 3157 -7.47e-03 1.005 3.99e-06 0.001492
## 3158 -1.24e-01 0.990 1.10e-03 0.002970 *
## 3159 -2.65e-02 1.004 5.02e-05 0.001810
## 3160 1.12e-02 1.005 8.98e-06 0.001617
## 3161 1.35e-02 1.004 1.30e-05 0.001416
## 3162 -7.27e-03 1.006 3.78e-06 0.002999
## 3163 1.91e-02 1.005 2.61e-05 0.002184
## 3164 -8.22e-03 1.007 4.83e-06 0.003948
## 3165 -1.71e-02 1.004 2.08e-05 0.001110
## 3166 -1.42e-03 1.004 1.45e-07 0.000926
## 3167 3.84e-03 1.004 1.06e-06 0.001200
## 3168 -2.18e-02 1.003 3.38e-05 0.001217
## 3169 7.69e-03 1.004 4.23e-06 0.001273
## 3170 4.83e-03 1.005 1.67e-06 0.001503
## 3171 2.58e-02 1.002 4.74e-05 0.000977
## 3172 1.69e-02 1.009 2.05e-05 0.006005
## 3173 7.73e-03 1.005 4.27e-06 0.001441
## 3174 -6.40e-03 1.004 2.92e-06 0.000829
## 3175 1.25e-02 1.004 1.11e-05 0.001360
## 3176 -1.26e-02 1.004 1.14e-05 0.001556
## 3177 -6.26e-03 1.005 2.80e-06 0.001378
## 3178 4.63e-02 1.007 1.53e-04 0.004808

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## 3179  1.37e-02 1.007 1.35e-05 0.003537
## 3180 -1.70e-02 1.004 2.06e-05 0.001205
## 3181  3.40e-03 1.004 8.26e-07 0.001064
## 3182 -1.02e-02 1.004 7.40e-06 0.000885
## 3183 -7.27e-02 1.001 3.77e-04 0.003015
## 3184 -1.46e-02 1.004 1.53e-05 0.001465
## 3185  1.59e-03 1.005 1.81e-07 0.002025
## 3186 -1.07e-02 1.004 8.25e-06 0.001499
## 3187 -1.05e-01 0.994 7.94e-04 0.002989
## 3188 -1.55e-02 1.004 1.71e-05 0.001508
## 3189 -1.55e-02 1.004 1.71e-05 0.001508
## 3190 -4.25e-03 1.006 1.29e-06 0.002465
## 3191 -3.35e-02 1.030 8.04e-05 0.026065 *
## 3192 -2.07e-03 1.005 3.07e-07 0.001699
## 3193  2.30e-03 1.005 3.78e-07 0.001659
## 3194  1.29e-03 1.005 1.19e-07 0.001672
## 3195  3.13e-03 1.005 6.98e-07 0.001655
## 3196  1.03e-02 1.005 7.51e-06 0.001727
## 3197 -2.23e-02 1.004 3.57e-05 0.001589
## 3198  6.60e-03 1.005 3.11e-06 0.001395
## 3199  2.92e-03 1.005 6.08e-07 0.001481
## 3200 -2.16e-02 1.004 3.32e-05 0.001446
## 3201 -6.45e-04 1.005 2.98e-08 0.001478
## 3202 -2.69e-02 1.005 5.18e-05 0.002463
## 3203 -1.09e-01 0.995 8.40e-04 0.003307
## 3204 -8.23e-03 1.004 4.84e-06 0.001053
## 3205 -2.10e-02 1.006 3.16e-05 0.003575
## 3206 -1.17e-02 1.004 9.74e-06 0.000882
## 3207  3.69e-02 1.007 9.72e-05 0.004378
## 3208  3.12e-02 1.002 6.95e-05 0.001219
## 3209  1.89e-02 1.003 2.55e-05 0.000951
## 3210 -9.41e-03 1.004 6.33e-06 0.001230
## 3211 -7.71e-03 1.004 4.25e-06 0.001332
## 3212  4.02e-02 1.006 1.16e-04 0.003733
## 3213  4.04e-02 0.999 1.17e-04 0.001045
## 3214 -1.11e-02 1.004 8.75e-06 0.001476
## 3215 -6.80e-03 1.004 3.30e-06 0.001297
## 3216  2.15e-02 1.007 3.29e-05 0.004157
## 3217 -1.71e-03 1.005 2.09e-07 0.001332
## 3218  8.50e-03 1.005 5.17e-06 0.001836
## 3219 -1.69e-02 1.003 2.04e-05 0.000743
## 3220  4.51e-03 1.009 1.45e-06 0.005259
## 3221 -2.51e-02 1.003 4.51e-05 0.001229
## 3222 -3.66e-04 1.005 9.57e-09 0.001547
## 3223 -3.14e-02 1.001 7.03e-05 0.000897
## 3224 -2.67e-02 1.001 5.08e-05 0.000800
## 3225 -2.53e-02 1.004 4.56e-05 0.001585
## 3226  1.18e-02 1.005 1.00e-05 0.001549
## 3227  1.38e-02 1.005 1.37e-05 0.001886
## 3228  1.32e-03 1.004 1.24e-07 0.000929
## 3229  1.76e-02 1.004 2.20e-05 0.001554
## 3230  2.13e-02 1.004 3.23e-05 0.001554
## 3231  7.53e-03 1.004 4.05e-06 0.000853
## 3232 -2.21e-02 1.003 3.50e-05 0.001280

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## 3233 -3.19e-03 1.007 7.29e-07 0.003656
## 3234  2.66e-02 1.004 5.05e-05 0.001986
## 3235  7.75e-03 1.005 4.29e-06 0.001522
## 3236  6.09e-03 1.005 2.65e-06 0.001492
## 3237 -8.09e-03 1.004 4.68e-06 0.000765
## 3238  8.38e-02 1.017 5.02e-04 0.015081 *
## 3239 -5.63e-03 1.004 2.27e-06 0.000891
## 3240 -8.82e-03 1.004 5.56e-06 0.000891
## 3241 -2.74e-02 1.002 5.35e-05 0.001076
## 3242  2.04e-02 1.006 2.97e-05 0.002936
## 3243 -2.88e-02 1.002 5.92e-05 0.001202
## 3244  1.04e-02 1.006 7.79e-06 0.002514
## 3245  1.66e-04 1.005 1.97e-09 0.001770
## 3246  1.11e-02 1.004 8.85e-06 0.000974
## 3247  1.65e-02 1.004 1.95e-05 0.001114
## 3248  1.13e-02 1.005 9.07e-06 0.001602
## 3249 -9.51e-03 1.004 6.46e-06 0.001026
## 3250 -1.09e-02 1.004 8.45e-06 0.000867
## 3251 -1.31e-02 1.004 1.23e-05 0.001438
## 3252 -3.60e-02 1.002 9.26e-05 0.001545
## 3253  8.35e-03 1.006 4.99e-06 0.002877
## 3254 -1.22e-01 0.994 1.06e-03 0.003709
## 3255 -2.76e-02 1.002 5.43e-05 0.001005
## 3256 -2.51e-02 1.002 4.48e-05 0.001028
## 3257 -1.10e-01 0.993 8.68e-04 0.002993
## 3258 -6.08e-03 1.005 2.64e-06 0.001435
## 3259 -2.89e-02 1.002 5.95e-05 0.001219
## 3260  1.51e-03 1.005 1.62e-07 0.001528
## 3261 -8.22e-03 1.007 4.83e-06 0.003948
## 3262  1.70e-01 0.976 2.05e-03 0.002997 *
## 3263 -7.61e-03 1.005 4.14e-06 0.001886
## 3264  1.74e-02 1.005 2.15e-05 0.002396
## 3265 -2.60e-02 1.002 4.83e-05 0.000988
## 3266  6.64e-03 1.006 3.15e-06 0.003043
## 3267 -2.40e-02 1.004 4.13e-05 0.001895
## 3268  3.98e-02 1.004 1.13e-04 0.002724
## 3269  4.63e-03 1.005 1.53e-06 0.001485
## 3270 -6.59e-03 1.005 3.11e-06 0.001714
## 3271 -9.62e-03 1.005 6.61e-06 0.001487
## 3272 -1.58e-03 1.005 1.78e-07 0.001326
## 3273 -2.63e-02 1.002 4.94e-05 0.000946
## 3274 -2.19e-02 1.002 3.42e-05 0.000822
## 3275  4.83e-03 1.004 1.67e-06 0.001108
## 3276 -1.39e-02 1.004 1.38e-05 0.000943
## 3277 -1.24e-01 0.990 1.10e-03 0.003015 *
## 3278 -1.53e-02 1.004 1.68e-05 0.001489
## 3279 -7.02e-03 1.005 3.52e-06 0.001539
## 3280 -1.92e-03 1.005 2.64e-07 0.001532
## 3281 -5.50e-03 1.005 2.16e-06 0.001491
## 3282 -7.03e-03 1.005 3.54e-06 0.001423
## 3283 -1.23e-02 1.005 1.09e-05 0.001571
## 3284 -4.45e-03 1.005 1.41e-06 0.001684
## 3285  5.58e-02 0.994 2.22e-04 0.000978
## 3286 -6.40e-03 1.004 2.92e-06 0.000756

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## 3287  3.33e-02 1.002 7.93e-05 0.001523
## 3288 -2.73e-03 1.006 5.33e-07 0.003029
## 3289  2.30e-02 1.003 3.77e-05 0.001259
## 3290 -1.80e-02 1.003 2.32e-05 0.000980
## 3291 -7.14e-03 1.004 3.65e-06 0.000852
## 3292  2.03e-02 1.003 2.94e-05 0.001060
## 3293 -1.56e-02 1.004 1.73e-05 0.001311
## 3294 -2.51e-03 1.004 4.52e-07 0.000743
## 3295 -1.21e-01 0.991 1.04e-03 0.003005
## 3296  5.23e-03 1.004 1.96e-06 0.001095
## 3297 -4.22e-03 1.007 1.27e-06 0.003719
## 3298  6.87e-03 1.007 3.37e-06 0.003553
## 3299 -2.01e-03 1.005 2.88e-07 0.001604
## 3300  1.52e-03 1.004 1.65e-07 0.000985
## 3301 -6.07e-03 1.007 2.63e-06 0.004045
## 3302  1.37e-03 1.005 1.34e-07 0.001475
## 3303 -1.81e-03 1.005 2.33e-07 0.001445
## 3304 -2.00e-02 1.003 2.85e-05 0.000845
## 3305  2.89e-03 1.004 5.95e-07 0.000805
## 3306 -2.07e-02 1.002 3.05e-05 0.000774
## 3307  4.00e-02 0.999 1.14e-04 0.001053
## 3308  5.71e-03 1.004 2.33e-06 0.001035
## 3309  7.51e-02 0.998 4.03e-04 0.002299
## 3310 -3.79e-03 1.005 1.03e-06 0.001602
## 3311 -2.92e-02 1.002 6.10e-05 0.001134
## 3312  6.03e-03 1.004 2.60e-06 0.001132
## 3313  1.03e-02 1.005 7.63e-06 0.002065
## 3314  1.50e-03 1.006 1.61e-07 0.002310
## 3315  7.24e-03 1.007 3.75e-06 0.003620
## 3316  3.39e-02 1.006 8.19e-05 0.003709
## 3317  4.44e-03 1.004 1.41e-06 0.000932
## 3318  1.37e-02 1.003 1.33e-05 0.000897
## 3319  7.37e-03 1.005 3.88e-06 0.001531
## 3320  1.45e-02 1.005 1.50e-05 0.002085
## 3321  7.39e-02 1.007 3.90e-04 0.006528
## 3322 -3.27e-03 1.006 7.63e-07 0.002670
## 3323  4.56e-02 0.999 1.48e-04 0.001309
## 3324 -3.28e-02 1.006 7.69e-05 0.003648
## 3325 -1.14e-02 1.004 9.25e-06 0.000924
## 3326 -2.41e-02 1.002 4.14e-05 0.000902
## 3327  5.23e-03 1.005 1.96e-06 0.001363
## 3328  1.34e-02 1.003 1.29e-05 0.000852
## 3329 -2.17e-02 1.004 3.36e-05 0.001374
## 3330  1.42e-02 1.003 1.44e-05 0.000865
## 3331 -1.24e-03 1.005 1.10e-07 0.001610
## 3332  1.22e-02 1.003 1.07e-05 0.000786
## 3333 -7.44e-03 1.004 3.95e-06 0.000813
## 3334 -1.51e-02 1.003 1.63e-05 0.000834
## 3335  1.75e-01 1.015 2.20e-03 0.016848 *
## 3336  2.44e-03 1.004 4.26e-07 0.001059
## 3337 -8.66e-03 1.004 5.36e-06 0.001059
## 3338  3.50e-03 1.005 8.78e-07 0.001810
## 3339  2.20e-02 1.003 3.47e-05 0.001215
## 3340 -7.95e-03 1.005 4.51e-06 0.001599

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## 3341  3.50e-03 1.005 8.78e-07 0.001810
## 3342  1.33e-03 1.049 1.26e-07 0.044019 *
## 3343 -5.40e-03 1.005 2.08e-06 0.001536
## 3344 -6.66e-03 1.005 3.17e-06 0.001678
## 3345 -1.02e-02 1.005 7.49e-06 0.001497
## 3346 -1.34e-04 1.005 1.28e-09 0.001380
## 3347 -1.06e-02 1.004 8.05e-06 0.000808
## 3348 -1.61e-02 1.004 1.85e-05 0.001070
## 3349  1.20e-02 1.004 1.04e-05 0.001024
## 3350  9.67e-03 1.007 6.68e-06 0.003779
## 3351 -2.65e-03 1.006 5.03e-07 0.002992
## 3352  2.61e-02 1.003 4.88e-05 0.001287
## 3353 -1.56e-01 0.986 1.73e-03 0.003674 *
## 3354  3.13e-02 1.005 7.02e-05 0.003189
## 3355 -1.38e-02 1.004 1.36e-05 0.001070
## 3356 -2.30e-02 1.002 3.79e-05 0.000897
## 3357 -9.60e-02 0.996 6.58e-04 0.003025
## 3358  5.16e-03 1.004 1.90e-06 0.000816
## 3359 -6.00e-02 1.002 2.57e-04 0.002847
## 3360 -6.65e-03 1.005 3.16e-06 0.002082
## 3361  3.30e-02 1.003 7.78e-05 0.001780
## 3362  6.98e-03 1.005 3.48e-06 0.001376
## 3363 -7.97e-03 1.004 4.54e-06 0.000890
## 3364  2.46e-02 1.004 4.34e-05 0.001610
## 3365 -1.12e-02 1.004 8.88e-06 0.000928
## 3366  1.34e-02 1.005 1.29e-05 0.001769
## 3367  9.55e-03 1.005 6.52e-06 0.001680
## 3368  6.98e-03 1.005 3.48e-06 0.001376
## 3369  8.43e-03 1.004 5.08e-06 0.001374
## 3370  2.87e-02 1.006 5.87e-05 0.003191
## 3371 -1.32e-02 1.004 1.25e-05 0.000905
## 3372  6.55e-02 1.004 3.07e-04 0.003857
## 3373  9.97e-03 1.006 7.10e-06 0.003248
## 3374 -1.78e-03 1.004 2.27e-07 0.000952
## 3375  2.07e-03 1.005 3.07e-07 0.001507
## 3376 -1.74e-02 1.003 2.17e-05 0.001001
## 3377 -7.69e-03 1.005 4.22e-06 0.001448
## 3378 -9.52e-03 1.005 6.47e-06 0.001821
## 3379 -3.34e-03 1.005 7.98e-07 0.001637
## 3380  9.65e-03 1.004 6.65e-06 0.000743
## 3381 -6.67e-03 1.004 3.18e-06 0.001072
## 3382  1.72e-02 1.004 2.12e-05 0.001536
## 3383 -2.75e-03 1.004 5.41e-07 0.000813
## 3384 -3.37e-03 1.004 8.11e-07 0.000761
## 3385 -1.63e-03 1.004 1.90e-07 0.001189
## 3386 -1.07e-02 1.004 8.11e-06 0.000905
## 3387  3.05e-03 1.005 6.64e-07 0.001315
## 3388  2.80e-02 1.016 5.61e-05 0.012987 *
## 3389 -3.14e-04 1.005 7.03e-09 0.001816
## 3390 -7.96e-03 1.005 4.52e-06 0.001443
## 3391 -7.84e-03 1.004 4.39e-06 0.001271
## 3392 -1.00e-02 1.004 7.20e-06 0.001249
## 3393 -4.60e-03 1.004 1.51e-06 0.001088
## 3394  1.49e-02 1.007 1.59e-05 0.003711

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## 3395  1.88e-02 1.054 2.52e-05 0.047777 *
## 3396 -1.19e-02 1.005 1.01e-05 0.001737
## 3397  5.63e-02 1.008 2.26e-04 0.006136
## 3398  8.18e-02 1.002 4.78e-04 0.004022
## 3399 -4.42e-05 1.004 1.39e-10 0.000908
## 3400 -4.04e-03 1.004 1.16e-06 0.000836
## 3401  1.52e-02 1.003 1.66e-05 0.000829
## 3402 -1.86e-02 1.003 2.48e-05 0.001005
## 3403 -2.73e-02 1.002 5.30e-05 0.001064
## 3404 -6.14e-03 1.004 2.70e-06 0.000765
## 3405  3.50e-02 1.016 8.77e-05 0.013290 *
## 3406 -2.19e-02 1.004 3.43e-05 0.001655
## 3407 -8.25e-03 1.004 4.86e-06 0.000774
## 3408 -1.05e-02 1.049 7.84e-06 0.043907 *
## 3409  1.02e-02 1.004 7.41e-06 0.001352
## 3410 -5.98e-03 1.004 2.56e-06 0.000885
## 3411 -2.86e-02 1.002 5.84e-05 0.001286
## 3412  7.87e-02 0.991 4.42e-04 0.001431
## 3413  3.21e-03 1.004 7.34e-07 0.000876
## 3414 -1.63e-03 1.004 1.89e-07 0.001240
## 3415  3.07e-02 1.003 6.74e-05 0.001583
## 3416  2.08e-02 1.003 3.09e-05 0.001095
## 3417  4.97e-02 1.004 1.77e-04 0.003147
## 3418  2.26e-02 1.003 3.64e-05 0.001363
## 3419 -1.14e-01 0.997 9.24e-04 0.004115
## 3420 -3.90e-02 1.006 1.09e-04 0.003608
## 3421  5.41e-03 1.004 2.09e-06 0.001070
## 3422 -1.09e-01 0.995 8.51e-04 0.003331
## 3423 -2.91e-02 1.003 6.05e-05 0.001488
## 3424 -4.72e-03 1.004 1.59e-06 0.001027
## 3425  5.83e-04 1.004 2.43e-08 0.001237
## 3426  3.13e-03 1.005 6.98e-07 0.001326
## 3427 -2.02e-03 1.004 2.91e-07 0.000875
## 3428  5.96e-03 1.004 2.54e-06 0.001286
## 3429  5.99e-03 1.004 2.56e-06 0.000844
## 3430 -1.79e-02 1.005 2.30e-05 0.002090
## 3431 -7.94e-03 1.004 4.51e-06 0.000808
## 3432  4.37e-02 1.001 1.36e-04 0.001487
## 3433  8.06e-03 1.005 4.64e-06 0.001619
## 3434 -2.23e-02 1.003 3.55e-05 0.001321
## 3435  9.22e-03 1.005 6.08e-06 0.001712
## 3436 -2.53e-02 1.004 4.59e-05 0.001593
## 3437 -8.33e-03 1.004 4.96e-06 0.001272
## 3438  2.70e-02 1.004 5.22e-05 0.001915
## 3439 -1.04e-01 0.995 7.69e-04 0.003131
## 3440  4.26e-03 1.004 1.30e-06 0.001125
## 3441  7.00e-03 1.004 3.50e-06 0.001108
## 3442  1.64e-03 1.005 1.91e-07 0.001766
## 3443  1.39e-02 1.004 1.38e-05 0.000933
## 3444 -6.47e-03 1.004 2.99e-06 0.001186
## 3445  2.22e-02 1.005 3.52e-05 0.002686
## 3446  2.47e-02 1.004 4.34e-05 0.002127
## 3447  1.98e-04 1.004 2.81e-09 0.001246
## 3448 -3.88e-02 1.006 1.08e-04 0.003681

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## 3449  9.29e-02 0.983 6.15e-04 0.001301 *
## 3450 -1.97e-02 1.004 2.78e-05 0.001282
## 3451  1.24e-02 1.004 1.09e-05 0.001306
## 3452  1.10e-02 1.006 8.61e-06 0.002532
## 3453 -2.54e-02 1.002 4.62e-05 0.000844
## 3454  4.28e-01 0.842 1.29e-02 0.003295 *
## 3455 -1.11e-01 0.995 8.79e-04 0.003394
## 3456  8.12e-02 0.987 4.71e-04 0.001229 *
## 3457  7.66e-03 1.004 4.19e-06 0.000952
## 3458  1.70e-03 1.005 2.06e-07 0.001287
## 3459  2.56e-02 1.009 4.67e-05 0.005964
## 3460  2.88e-03 1.005 5.92e-07 0.001546
## 3461  4.86e-03 1.004 1.69e-06 0.001216
## 3462 -6.32e-03 1.008 2.85e-06 0.005091
## 3463 -1.30e-02 1.004 1.21e-05 0.001058
## 3464 -5.27e-03 1.004 1.98e-06 0.000831
## 3465  6.22e-02 1.029 2.76e-04 0.025734 *
## 3466  1.92e-02 1.004 2.64e-05 0.001245
## 3467  9.37e-03 1.005 6.27e-06 0.001552
## 3468 -1.30e-01 0.992 1.22e-03 0.003699
## 3469  1.69e-02 1.007 2.04e-05 0.003779
## 3470 -2.22e-02 1.003 3.53e-05 0.001231
## 3471 -6.74e-03 1.009 3.24e-06 0.006060
## 3472  3.32e-03 1.005 7.89e-07 0.001609
## 3473 -6.19e-04 1.004 2.74e-08 0.000740
## 3474  2.62e-03 1.005 4.89e-07 0.001651
## 3475  2.76e-02 1.002 5.42e-05 0.001127
## 3476 -3.33e-02 1.004 7.93e-05 0.002545
## 3477  1.02e-02 1.004 7.36e-06 0.001038
## 3478  1.01e-03 1.030 7.30e-08 0.025695 *
## 3479 -1.12e-02 1.004 8.97e-06 0.001231
## 3480 -3.53e-03 1.005 8.92e-07 0.001941
## 3481 -1.10e-02 1.004 8.66e-06 0.001026
## 3482 -1.55e-02 1.003 1.71e-05 0.000877
## 3483  4.06e-03 1.030 1.18e-06 0.025911 *
## 3484 -2.23e-02 1.002 3.54e-05 0.000934
## 3485 -2.23e-02 1.002 3.54e-05 0.000934
## 3486 -6.41e-03 1.004 2.93e-06 0.000818
## 3487 -1.76e-03 1.005 2.20e-07 0.001466
## 3488 -1.03e-02 1.005 7.57e-06 0.001499
## 3489  2.53e-03 1.004 4.56e-07 0.001189
## 3490 -1.28e-02 1.004 1.18e-05 0.000970
## 3491 -9.64e-03 1.004 6.64e-06 0.001088
## 3492 -1.88e-02 1.003 2.51e-05 0.000940
## 3493 -1.67e-01 0.982 2.00e-03 0.003592 *
## 3494 -2.85e-03 1.005 5.79e-07 0.001664
## 3495 -2.02e-02 1.004 2.91e-05 0.001287
## 3496 -4.19e-04 1.004 1.25e-08 0.000897
## 3497  5.14e-02 0.999 1.89e-04 0.001443
## 3498  1.55e-02 1.005 1.71e-05 0.002526
## 3499  3.07e-03 1.004 6.74e-07 0.000901
## 3500 -1.14e-01 0.993 9.34e-04 0.003191
## 3501 -8.33e-04 1.005 4.96e-08 0.001269
## 3502  2.97e-02 1.001 6.30e-05 0.000921

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## 3503 4.53e-03 1.005 1.46e-06 0.001376
## 3504 5.17e-02 1.017 1.91e-04 0.013714 *
## 3505 -3.38e-02 1.006 8.18e-05 0.003553
## 3506 -1.47e-02 1.004 1.54e-05 0.001211
## 3507 -1.35e-02 1.004 1.29e-05 0.001193
## 3508 4.74e-03 1.005 1.60e-06 0.001680
## 3509 -1.21e-02 1.004 1.04e-05 0.001409
## 3510 -2.38e-02 1.003 4.04e-05 0.001361
## 3511 -1.47e-03 1.005 1.53e-07 0.001354
## 3512 -2.38e-02 1.003 4.04e-05 0.001361
## 3513 1.13e-02 1.005 9.20e-06 0.001922
## 3514 -6.04e-04 1.004 2.60e-08 0.000745
## 3515 -1.18e-02 1.004 1.00e-05 0.001060
## 3516 1.04e-03 1.007 7.73e-08 0.003938
## 3517 4.30e-02 0.997 1.32e-04 0.000831
## 3518 5.71e-02 0.994 2.32e-04 0.001064
## 3519 4.29e-02 1.005 1.32e-04 0.003311
## 3520 5.89e-03 1.004 2.48e-06 0.001297
## 3521 -1.76e-04 1.005 2.22e-09 0.001465
## 3522 6.87e-03 1.005 3.37e-06 0.001565
## 3523 -5.72e-03 1.004 2.33e-06 0.001206
## 3524 7.10e-03 1.006 3.60e-06 0.002822
## 3525 -1.48e-02 1.004 1.55e-05 0.001623
## 3526 2.99e-02 1.003 6.37e-05 0.001755
## 3527 -2.17e-03 1.005 3.36e-07 0.002027
## 3528 1.87e-02 1.006 2.51e-05 0.002883
## 3529 -1.11e-01 0.993 8.76e-04 0.003015
## 3530 -1.61e-02 1.005 1.86e-05 0.002415
## 3531 -7.30e-02 1.001 3.81e-04 0.003120
## 3532 2.51e-02 1.008 4.49e-05 0.005149
## 3533 6.48e-02 1.004 3.00e-04 0.003857
## 3534 -2.16e-02 1.005 3.34e-05 0.002131
## 3535 -3.33e-02 1.007 7.95e-05 0.004182
## 3536 6.62e-03 1.004 3.13e-06 0.000897
## 3537 -1.46e-02 1.004 1.53e-05 0.000977
## 3538 -8.56e-02 0.999 5.23e-04 0.003176
## 3539 -4.16e-05 1.004 1.23e-10 0.001248
## 3540 7.75e-03 1.004 4.29e-06 0.000848
## 3541 -1.84e-02 1.007 2.42e-05 0.004168
## 3542 9.30e-03 1.006 6.19e-06 0.003319
## 3543 -8.00e-03 1.008 4.58e-06 0.004497
## 3544 3.34e-03 1.005 7.97e-07 0.001327
## 3545 -6.97e-03 1.004 3.47e-06 0.001301
## 3546 1.64e-02 1.004 1.92e-05 0.001259
## 3547 -1.27e-02 1.004 1.14e-05 0.001064
## 3548 1.65e-02 1.004 1.93e-05 0.001431
## 3549 -6.07e-03 1.004 2.64e-06 0.000829
## 3550 -3.63e-03 1.004 9.39e-07 0.001049
## 3551 -1.08e-01 1.008 8.35e-04 0.008964
## 3552 -1.24e-02 1.004 1.10e-05 0.000960
## 3553 6.15e-03 1.004 2.70e-06 0.001219
## 3554 4.94e-03 1.004 1.74e-06 0.000888
## 3555 8.96e-03 1.005 5.73e-06 0.002057
## 3556 -8.63e-04 1.005 5.32e-08 0.001310

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## 3557 -1.75e-02 1.007 2.19e-05 0.003896
## 3558 -2.33e-02 1.003 3.89e-05 0.001104
## 3559 5.48e-03 1.005 2.15e-06 0.001387
## 3560 -1.04e-02 1.004 7.69e-06 0.001259
## 3561 1.80e-02 1.004 2.30e-05 0.001332
## 3562 -5.31e-03 1.004 2.01e-06 0.000774
## 3563 -1.73e-02 1.003 2.14e-05 0.000897
## 3564 -8.90e-03 1.004 5.66e-06 0.001164
## 3565 -9.79e-02 1.000 6.84e-04 0.004164
## 3566 1.42e-02 1.003 1.43e-05 0.000829
## 3567 5.68e-02 0.997 2.30e-04 0.001312
## 3568 -6.07e-03 1.004 2.64e-06 0.000829
## 3569 -3.51e-02 1.006 8.80e-05 0.003681
## 3570 -1.22e-01 0.997 1.06e-03 0.004490
## 3571 4.84e-03 1.005 1.68e-06 0.001518
## 3572 -2.13e-02 1.003 3.23e-05 0.001149
## 3573 2.94e-02 1.007 6.19e-05 0.004790
## 3574 8.68e-03 1.004 5.38e-06 0.001338
## 3575 4.40e-03 1.004 1.39e-06 0.001193
## 3576 4.48e-02 0.999 1.44e-04 0.001165
## 3577 4.33e-02 1.004 1.34e-04 0.002774
## 3578 2.18e-02 1.003 3.39e-05 0.001015
## 3579 -1.29e-02 1.004 1.18e-05 0.001332
## 3580 -7.15e-03 1.004 3.65e-06 0.001188
## 3581 -2.06e-02 1.007 3.02e-05 0.003749
## 3582 2.30e-03 1.004 3.77e-07 0.000866
## 3583 1.98e-02 1.004 2.80e-05 0.001376
## 3584 -2.89e-03 1.005 5.98e-07 0.001604
## 3585 -1.13e-02 1.005 9.11e-06 0.001549
## 3586 -2.40e-02 1.005 4.12e-05 0.002564
## 3587 -1.59e-02 1.003 1.81e-05 0.000977
## 3588 -1.29e-03 1.004 1.18e-07 0.000990
## 3589 1.42e-02 1.004 1.45e-05 0.001271
## 3590 -1.29e-02 1.004 1.20e-05 0.000933
## 3591 -1.78e-02 1.004 2.26e-05 0.001568
## 3592 2.24e-02 1.005 3.60e-05 0.002564
## 3593 -4.62e-03 1.004 1.53e-06 0.001287
## 3594 -1.42e-04 1.005 1.44e-09 0.001528
## 3595 7.59e-03 1.004 4.12e-06 0.001321
## 3596 -1.63e-01 0.996 1.89e-03 0.006162
## 3597 1.64e-01 0.986 1.91e-03 0.004086 *
## 3598 3.02e-03 1.004 6.50e-07 0.000866
## 3599 9.64e-03 1.004 6.64e-06 0.000959
## 3600 3.25e-02 1.002 7.55e-05 0.001386
## 3601 -7.82e-02 1.001 4.37e-04 0.003504
## 3602 3.46e-03 1.005 8.54e-07 0.001336
## 3603 -1.69e-02 1.004 2.03e-05 0.001429
## 3604 -3.86e-03 1.005 1.06e-06 0.001296
## 3605 3.60e-03 1.005 9.28e-07 0.001568
## 3606 2.30e-03 1.004 3.80e-07 0.000793
## 3607 -1.16e-02 1.004 9.67e-06 0.001253
## 3608 -6.07e-04 1.005 2.63e-08 0.001591
## 3609 -3.53e-03 1.004 8.91e-07 0.000899
## 3610 5.45e-03 1.004 2.13e-06 0.000857

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## 3611 -3.23e-03 1.004 7.48e-07 0.000771
## 3612 1.91e-02 1.007 2.60e-05 0.004253
## 3613 -5.60e-02 1.005 2.24e-04 0.004263
## 3614 -3.41e-03 1.005 8.32e-07 0.001423
## 3615 -9.87e-03 1.004 6.96e-06 0.001407
## 3616 -2.65e-01 1.065 5.00e-03 0.061539 *
## 3617 -2.69e-03 1.005 5.18e-07 0.001413
## 3618 -3.86e-03 1.005 1.06e-06 0.001676
## 3619 -7.64e-03 1.005 4.17e-06 0.001547
## 3620 -4.99e-03 1.004 1.78e-06 0.000936
## 3621 2.66e-03 1.004 5.06e-07 0.001252
## 3622 6.59e-02 1.007 3.10e-04 0.006154
## 3623 6.59e-02 1.007 3.10e-04 0.006154
## 3624 -3.37e-02 1.006 8.10e-05 0.003681
## 3625 1.24e-02 1.016 1.09e-05 0.012845 *
## 3626 -4.04e-04 1.004 1.17e-08 0.000960
## 3627 5.55e-02 0.995 2.20e-04 0.001088
## 3628 3.17e-03 1.004 7.17e-07 0.000886
## 3629 -1.35e-02 1.004 1.30e-05 0.001088
## 3630 -2.25e-03 1.004 3.60e-07 0.000765
## 3631 7.77e-03 1.005 4.32e-06 0.001878
## 3632 -1.95e-02 1.004 2.71e-05 0.001353
## 3633 -8.30e-05 1.005 4.92e-10 0.001609
## 3634 -4.12e-02 1.007 1.21e-04 0.005050
## 3635 -2.96e-02 1.004 6.25e-05 0.001829
## 3636 2.52e-04 1.004 4.54e-09 0.000866
## 3637 -9.53e-03 1.004 6.48e-06 0.000926
## 3638 5.96e-03 1.004 2.54e-06 0.001027
## 3639 -2.07e-02 1.003 3.08e-05 0.000945
## 3640 -2.86e-02 1.003 5.83e-05 0.001712
## 3641 5.66e-03 1.004 2.29e-06 0.000803
## 3642 1.37e-02 1.004 1.34e-05 0.001232
## 3643 2.92e-02 1.003 6.09e-05 0.001406
## 3644 -1.92e-03 1.004 2.65e-07 0.000790
## 3645 8.03e-03 1.005 4.60e-06 0.001530
## 3646 1.29e-02 1.005 1.19e-05 0.001922
## 3647 3.15e-02 1.011 7.07e-05 0.007650 *
## 3648 5.94e-03 1.004 2.52e-06 0.000985
## 3649 -8.11e-03 1.004 4.70e-06 0.000873
## 3650 3.63e-02 1.003 9.40e-05 0.001757
## 3651 -1.95e-02 1.003 2.71e-05 0.000980
## 3652 -1.92e-02 1.005 2.62e-05 0.002096
## 3653 2.02e-03 1.005 2.92e-07 0.001409
## 3654 1.02e-02 1.004 7.40e-06 0.001380
## 3655 -1.27e-02 1.004 1.15e-05 0.000988
## 3656 -8.55e-02 0.999 5.22e-04 0.003178
## 3657 2.12e-02 1.002 3.21e-05 0.000802
## 3658 1.39e-02 1.004 1.38e-05 0.001494
## 3659 4.17e-03 1.004 1.24e-06 0.001254
## 3660 4.23e-03 1.005 1.28e-06 0.001380
## 3661 -4.45e-03 1.004 1.42e-06 0.000740
## 3662 6.58e-02 1.005 3.09e-04 0.004636
## 3663 4.62e-03 1.004 1.52e-06 0.001211
## 3664 5.72e-02 0.996 2.33e-04 0.001294

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## 3665  1.62e-02 1.004 1.88e-05 0.001241
## 3666 -1.07e-02 1.004 8.10e-06 0.000927
## 3667 -2.72e-02 1.002 5.28e-05 0.001168
## 3668 -2.83e-02 1.002 5.72e-05 0.001028
## 3669 -9.32e-03 1.004 6.20e-06 0.000858
## 3670 -4.20e-03 1.004 1.26e-06 0.000760
## 3671 -6.21e-03 1.004 2.76e-06 0.000776
## 3672 -5.97e-02 1.005 2.55e-04 0.004331
## 3673  4.51e-03 1.005 1.45e-06 0.001333
## 3674 -1.39e-03 1.004 1.38e-07 0.000825
## 3675 -1.49e-02 1.003 1.59e-05 0.000905
## 3676  1.17e-03 1.011 9.84e-08 0.007708 *
## 3677 -6.76e-03 1.004 3.26e-06 0.000996
## 3678 -5.66e-03 1.005 2.29e-06 0.001952
## 3679 -3.77e-02 1.006 1.02e-04 0.004069
## 3680  1.35e-01 1.015 1.29e-03 0.015189 *
## 3681 -2.90e-04 1.004 6.01e-09 0.000852
## 3682  1.00e-02 1.004 7.16e-06 0.000926
## 3683  9.94e-04 1.004 7.06e-08 0.001103
## 3684 -1.37e-02 1.003 1.35e-05 0.000891
## 3685 -1.08e-02 1.004 8.29e-06 0.001155
## 3686  1.02e-03 1.005 7.39e-08 0.001654
## 3687  9.37e-03 1.004 6.27e-06 0.001169
## 3688  1.15e-02 1.005 9.39e-06 0.001541
## 3689 -4.41e-03 1.005 1.39e-06 0.001466
## 3690  2.28e-02 1.004 3.72e-05 0.001470
## 3691 -3.14e-02 1.005 7.03e-05 0.002537
## 3692 -3.82e-03 1.006 1.04e-06 0.002489
## 3693  1.20e-01 0.981 1.03e-03 0.001945 *
## 3694 -1.90e-03 1.005 2.59e-07 0.001331
## 3695 -8.45e-03 1.004 5.10e-06 0.000970
## 3696  7.42e-03 1.004 3.93e-06 0.001228
## 3697 -1.90e-02 1.003 2.59e-05 0.001070
## 3698 -6.17e-04 1.007 2.72e-08 0.003686
## 3699  2.76e-03 1.004 5.45e-07 0.001049
## 3700  2.49e-02 1.002 4.44e-05 0.000885
## 3701 -6.12e-03 1.006 2.68e-06 0.002360
## 3702 -3.02e-02 1.008 6.51e-05 0.005586
## 3703 -1.12e-02 1.004 9.01e-06 0.001034
## 3704  4.83e-03 1.005 1.67e-06 0.001518
## 3705 -1.65e-03 1.004 1.95e-07 0.000746
## 3706 -5.97e-04 1.004 2.55e-08 0.001039
## 3707 -2.64e-02 1.002 4.98e-05 0.001164
## 3708  6.49e-02 0.994 3.01e-04 0.001271
## 3709  3.44e-03 1.004 8.48e-07 0.000819
## 3710  1.05e-02 1.004 7.84e-06 0.001481
## 3711 -5.48e-02 1.006 2.15e-04 0.004711
## 3712 -8.95e-03 1.005 5.72e-06 0.001640
## 3713 -1.05e-02 1.005 7.87e-06 0.001622
## 3714 -1.78e-03 1.005 2.25e-07 0.001514
## 3715 -2.51e-02 1.003 4.51e-05 0.001497
## 3716 -3.60e-02 1.004 9.25e-05 0.002478
## 3717 -2.02e-02 1.004 2.91e-05 0.001424
## 3718 -2.08e-02 1.004 3.09e-05 0.001526

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## 3719  5.66e-02 1.015 2.29e-04 0.012248 *
## 3720 -2.57e-02 1.004 4.73e-05 0.001721
## 3721  1.38e-02 1.004 1.35e-05 0.001058
## 3722  8.79e-02 0.998 5.52e-04 0.003033
## 3723 -2.45e-02 1.003 4.30e-05 0.001349
## 3724  3.55e-02 1.030 9.03e-05 0.025674 *
## 3725 -7.42e-04 1.004 3.94e-08 0.000813
## 3726 -2.78e-03 1.004 5.52e-07 0.000980
## 3727 -7.78e-03 1.004 4.33e-06 0.000774
## 3728  1.83e-03 1.004 2.39e-07 0.001065
## 3729  1.75e-02 1.003 2.20e-05 0.000978
## 3730 -2.08e-02 1.002 3.08e-05 0.000803
## 3731 -1.05e-01 0.995 7.83e-04 0.003205
## 3732  1.85e-02 1.004 2.44e-05 0.001555
## 3733 -6.99e-03 1.004 3.49e-06 0.000970
## 3734 -8.86e-03 1.004 5.61e-06 0.000852
## 3735  2.21e-02 1.007 3.50e-05 0.003896
## 3736  4.47e-03 1.005 1.43e-06 0.001308
## 3737 -1.93e-02 1.003 2.65e-05 0.000822
## 3738 -2.04e-03 1.005 2.97e-07 0.001306
## 3739  9.30e-03 1.004 6.19e-06 0.001374
## 3740  4.61e-02 1.005 1.52e-04 0.003555
## 3741  8.14e-03 1.005 4.73e-06 0.001560
## 3742  3.29e-03 1.004 7.74e-07 0.000857
## 3743 -1.10e-02 1.004 8.57e-06 0.001354
## 3744 -8.55e-03 1.004 5.23e-06 0.000810
## 3745 -1.01e-02 1.004 7.28e-06 0.001049
## 3746  6.02e-04 1.005 2.59e-08 0.001347
## 3747 -1.25e-03 1.004 1.12e-07 0.000966
## 3748 -4.57e-03 1.005 1.49e-06 0.001404
## 3749  3.98e-02 1.003 1.13e-04 0.002108
## 3750 -1.96e-02 1.003 2.74e-05 0.001244
## 3751 -2.14e-02 1.002 3.28e-05 0.000803
## 3752  1.59e-02 1.003 1.80e-05 0.000803
## 3753 -5.09e-02 1.050 1.85e-04 0.044315 *
## 3754  6.45e-03 1.004 2.97e-06 0.001291
## 3755  1.46e-02 1.004 1.52e-05 0.001392
## 3756 -1.16e-02 1.004 9.65e-06 0.000891
## 3757  6.71e-03 1.004 3.22e-06 0.000828
## 3758  1.22e-02 1.004 1.06e-05 0.001182
## 3759 -1.56e-02 1.003 1.74e-05 0.000824
## 3760 -1.05e-02 1.004 7.90e-06 0.001072
## 3761 -1.27e-01 0.991 1.15e-03 0.003274
## 3762 -1.33e-02 1.007 1.26e-05 0.003960
## 3763  4.23e-02 1.000 1.28e-04 0.001259
## 3764 -1.18e-02 1.005 9.90e-06 0.002069
## 3765  2.27e-02 1.002 3.68e-05 0.000813
## 3766  5.62e-02 0.997 2.25e-04 0.001278
## 3767  5.26e-04 1.004 1.98e-08 0.001179
## 3768  1.12e-02 1.005 8.92e-06 0.001707
## 3769  1.45e-02 1.003 1.49e-05 0.000745
## 3770 -1.86e-02 1.004 2.47e-05 0.001278
## 3771  2.09e-03 1.004 3.11e-07 0.000777
## 3772  1.12e-02 1.005 8.93e-06 0.001532

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## 3773 -1.92e-02 1.003 2.63e-05 0.000822
## 3774 -2.65e-02 1.031 5.00e-05 0.026667 *
## 3775 -1.21e-02 1.003 1.05e-05 0.000818
## 3776 5.96e-03 1.004 2.54e-06 0.001286
## 3777 -7.57e-03 1.004 4.10e-06 0.000875
## 3778 2.83e-02 1.002 5.72e-05 0.001100
## 3779 -2.49e-02 1.030 4.44e-05 0.025869 *
## 3780 7.40e-03 1.004 3.91e-06 0.001226
## 3781 1.64e-02 1.004 1.93e-05 0.001282
## 3782 3.31e-02 1.050 7.85e-05 0.044997 *
## 3783 1.23e-01 0.989 1.08e-03 0.002827 *
## 3784 -4.74e-02 1.008 1.60e-04 0.005991
## 3785 -2.39e-02 1.004 4.08e-05 0.001938
## 3786 2.04e-02 1.004 2.97e-05 0.001321
## 3787 2.27e-02 1.003 3.69e-05 0.001282
## 3788 6.66e-02 1.003 3.17e-04 0.003636
## 3789 8.19e-03 1.005 4.80e-06 0.001687
## 3790 -1.18e-02 1.004 1.00e-05 0.001260
## 3791 6.04e-02 0.994 2.60e-04 0.001150
## 3792 4.31e-03 1.004 1.32e-06 0.000822
## 3793 -7.93e-04 1.004 4.49e-08 0.001094
## 3794 -7.48e-03 1.005 4.00e-06 0.001499
## 3795 1.15e-03 1.004 9.45e-08 0.001244
## 3796 -2.15e-02 1.002 3.31e-05 0.000800
## 3797 -2.43e-02 1.003 4.20e-05 0.001229
## 3798 -9.62e-03 1.004 6.61e-06 0.001408
## 3799 -2.02e-02 1.003 2.92e-05 0.001181
## 3800 3.17e-02 1.001 7.20e-05 0.000905
## 3801 -1.13e-02 1.005 9.14e-06 0.002001
## 3802 5.20e-02 0.999 1.93e-04 0.001431
## 3803 1.69e-02 1.003 2.05e-05 0.001084
## 3804 -2.98e-03 1.004 6.33e-07 0.000902
## 3805 5.18e-03 1.005 1.92e-06 0.001528
## 3806 8.32e-03 1.004 4.94e-06 0.001167
## 3807 1.10e-03 1.004 8.61e-08 0.000982
## 3808 -2.38e-02 1.003 4.06e-05 0.001230
## 3809 9.24e-03 1.004 6.10e-06 0.001239
## 3810 -1.02e-01 0.995 7.49e-04 0.003034
## 3811 -1.47e-02 1.004 1.55e-05 0.001411
## 3812 -2.83e-02 1.003 5.72e-05 0.001404
## 3813 -2.83e-02 1.003 5.73e-05 0.001399
## 3814 -1.46e-02 1.003 1.52e-05 0.000789
## 3815 -6.87e-02 1.002 3.37e-04 0.003193
## 3816 -5.29e-02 1.007 2.00e-04 0.005028
## 3817 -1.84e-02 1.003 2.43e-05 0.000800
## 3818 -1.44e-01 0.991 1.48e-03 0.004102
## 3819 -7.84e-02 1.000 4.39e-04 0.003225
## 3820 -2.88e-02 1.003 5.93e-05 0.001474
## 3821 -1.31e-01 0.989 1.23e-03 0.003199 *
## 3822 -9.77e-02 0.998 6.82e-04 0.003559
## 3823 3.93e-02 1.006 1.10e-04 0.003947
## 3824 -2.48e-02 1.003 4.39e-05 0.001229
## 3825 -1.10e-01 0.992 8.63e-04 0.002790
## 3826 -1.05e-01 0.995 7.83e-04 0.003014

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## 3827 -1.96e-03 1.007 2.75e-07 0.003651
## 3828 -1.61e-02 1.004 1.85e-05 0.001403
## 3829 2.51e-03 1.005 4.48e-07 0.001658
## 3830 1.52e-02 1.003 1.64e-05 0.000928
## 3831 1.96e-03 1.016 2.76e-07 0.012662 *
## 3832 -4.49e-02 1.005 1.44e-04 0.003621
## 3833 -2.67e-02 1.002 5.10e-05 0.001135
## 3834 -3.20e-03 1.004 7.34e-07 0.000866
## 3835 1.92e-02 1.004 2.62e-05 0.001506
## 3836 -1.50e-02 1.041 1.60e-05 0.035874 *
## 3837 -8.41e-03 1.004 5.05e-06 0.000960
## 3838 1.31e-02 1.004 1.23e-05 0.001211
## 3839 -1.53e-03 1.004 1.67e-07 0.001134
## 3840 3.02e-03 1.004 6.50e-07 0.001064
## 3841 -4.60e-03 1.008 1.51e-06 0.004355
## 3842 -8.69e-03 1.004 5.40e-06 0.000800
## 3843 1.46e-02 1.006 1.53e-05 0.003020
## 3844 3.56e-02 1.006 9.07e-05 0.003587
## 3845 -3.60e-02 1.005 9.28e-05 0.003058
## 3846 -1.44e-02 1.004 1.48e-05 0.001487
## 3847 -1.39e-01 0.987 1.37e-03 0.003176 *
## 3848 -1.01e-02 1.007 7.28e-06 0.003524
## 3849 3.47e-02 1.005 8.61e-05 0.003128
## 3850 8.75e-02 1.016 5.47e-04 0.014064 *
## 3851 -1.63e-02 1.003 1.89e-05 0.000973
## 3852 1.15e-01 0.991 9.45e-04 0.002827
## 3853 -2.12e-03 1.005 3.21e-07 0.001505
## 3854 -2.06e-02 1.003 3.03e-05 0.000873
## 3855 8.12e-02 1.000 4.71e-04 0.003139
## 3856 1.73e-02 1.006 2.15e-05 0.002939
## 3857 4.99e-02 1.004 1.78e-04 0.003488
## 3858 6.54e-03 1.005 3.06e-06 0.001642
## 3859 1.13e-02 1.005 9.04e-06 0.001730
## 3860 -9.71e-02 0.997 6.73e-04 0.003181
## 3861 -4.44e-02 1.004 1.41e-04 0.003020
## 3862 -1.06e-02 1.004 8.03e-06 0.001465
## 3863 -4.43e-03 1.004 1.40e-06 0.001050
## 3864 1.93e-01 0.971 2.67e-03 0.003384 *
## 3865 -1.50e-03 1.005 1.62e-07 0.001464
## 3866 9.23e-03 1.005 6.09e-06 0.001569
## 3867 4.39e-02 1.001 1.38e-04 0.001531
## 3868 1.98e-02 1.004 2.81e-05 0.001584
## 3869 1.73e-02 1.004 2.14e-05 0.001653
## 3870 -2.41e-02 1.005 4.14e-05 0.002375
## 3871 -1.14e-02 1.004 9.30e-06 0.001454
## 3872 -7.16e-02 1.003 3.66e-04 0.003955
## 3873 1.01e+00 0.350 6.71e-02 0.002974 *
## 3874 2.05e-01 0.961 2.99e-03 0.002922 *
## 3875 5.45e-02 1.004 2.12e-04 0.003233
## 3876 4.00e-01 0.870 1.13e-02 0.003511 *
## 3877 -5.57e-02 1.003 2.22e-04 0.003119
## 3878 -1.45e-02 1.004 1.49e-05 0.001612
## 3879 -2.70e-02 1.003 5.21e-05 0.001395
## 3880 -1.13e-02 1.004 9.12e-06 0.001165

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## 3881  9.94e-03 1.004 7.06e-06 0.001058
## 3882 -7.52e-03 1.005 4.04e-06 0.001635
## 3883 -7.64e-03 1.005 4.18e-06 0.001448
## 3884  3.99e-01 0.851 1.12e-02 0.003051 *
## 3885  7.74e-03 1.004 4.29e-06 0.001319
## 3886  1.54e-02 1.004 1.70e-05 0.001380
## 3887 -9.50e-03 1.004 6.45e-06 0.000894
## 3888 -8.26e-03 1.006 4.88e-06 0.003270
## 3889  3.31e-02 1.001 7.83e-05 0.000978
## 3890  4.28e-02 1.005 1.31e-04 0.003144
## 3891 -1.13e-03 1.004 9.18e-08 0.000970
## 3892  8.96e-03 1.004 5.74e-06 0.001302
## 3893 -5.84e-02 1.003 2.43e-04 0.003303
## 3894 -2.06e-02 1.003 3.03e-05 0.000873
## 3895  7.94e-03 1.005 4.51e-06 0.001558
## 3896  7.14e-04 1.004 3.64e-08 0.000786
## 3897 -3.07e-03 1.004 6.73e-07 0.001268
## 3898 -2.33e-02 1.005 3.86e-05 0.002351
## 3899  5.03e-02 1.014 1.81e-04 0.011083 *
## 3900  1.88e-02 1.004 2.54e-05 0.001264
## 3901  2.38e-02 1.006 4.06e-05 0.002904
## 3902 -3.68e-02 1.005 9.69e-05 0.002997
## 3903  4.10e-02 1.016 1.20e-04 0.012734 *
## 3904 -2.10e-02 1.002 3.14e-05 0.000822
## 3905  4.04e-02 1.005 1.17e-04 0.003138
## 3906  1.31e-02 1.004 1.23e-05 0.001219
## 3907  5.57e-03 1.005 2.22e-06 0.001333
## 3908  8.74e-03 1.005 5.46e-06 0.001528
## 3909 -1.60e-03 1.004 1.83e-07 0.000751
## 3910 -1.06e-02 1.004 7.96e-06 0.001140
## 3911 -1.90e-03 1.005 2.58e-07 0.001294
## 3912 -5.50e-02 1.003 2.16e-04 0.003103
## 3913 -1.50e-02 1.006 1.61e-05 0.002740
## 3914  1.04e-02 1.004 7.69e-06 0.001232
## 3915 -2.03e-03 1.004 2.95e-07 0.001115
## 3916  2.37e-02 1.003 4.03e-05 0.001064
## 3917  1.03e-01 1.002 7.61e-04 0.005347
## 3918  1.31e-02 1.005 1.23e-05 0.001757
## 3919  1.53e-02 1.004 1.67e-05 0.001290
## 3920  9.32e-03 1.004 6.21e-06 0.001246
## 3921  2.40e-02 1.002 4.12e-05 0.000979
## 3922  6.80e-04 1.005 3.30e-08 0.001260
## 3923 -1.08e-02 1.004 8.31e-06 0.000813
## 3924 -1.83e-02 1.007 2.38e-05 0.003851
## 3925  2.68e-03 1.005 5.12e-07 0.001743
## 3926  2.79e-03 1.004 5.55e-07 0.000920
## 3927 -1.53e-02 1.003 1.68e-05 0.000832
## 3928 -4.77e-03 1.004 1.63e-06 0.000960
## 3929 -1.56e-02 1.004 1.73e-05 0.001093
## 3930 -9.17e-03 1.004 6.01e-06 0.001272
## 3931  3.04e-02 1.002 6.59e-05 0.001272
## 3932  2.96e-03 1.007 6.25e-07 0.003686
## 3933 -6.72e-03 1.004 3.23e-06 0.001269
## 3934 -3.59e-02 1.003 9.23e-05 0.001877

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## 3935  2.22e-02 1.004 3.53e-05 0.001538
## 3936  1.46e-02 1.004 1.52e-05 0.001650
## 3937  2.12e-02 1.004 3.22e-05 0.001627
## 3938  4.12e-02 1.002 1.21e-04 0.001664
## 3939  -1.41e-02 1.005 1.41e-05 0.001799
## 3940  -5.61e-03 1.005 2.25e-06 0.001550
## 3941  3.22e-02 1.003 7.42e-05 0.001629
## 3942  -6.47e-03 1.005 2.99e-06 0.001480
## 3943  1.68e-03 1.005 2.01e-07 0.001404
## 3944  1.92e-02 1.006 2.65e-05 0.002774
## 3945  -6.80e-03 1.004 3.30e-06 0.000776
## 3946  2.26e-03 1.005 3.66e-07 0.001269
## 3947  5.38e-03 1.004 2.07e-06 0.001309
## 3948  -2.17e-02 1.004 3.36e-05 0.001803
## 3949  8.75e-03 1.004 5.47e-06 0.000808
## 3950  2.26e-02 1.004 3.63e-05 0.001630
## 3951  1.01e-02 1.004 7.31e-06 0.000946
## 3952  1.42e-04 1.004 1.43e-09 0.000991
## 3953  -2.65e-02 1.002 5.03e-05 0.000897
## 3954  -1.57e-03 1.004 1.77e-07 0.001178
## 3955  1.41e-03 1.004 1.43e-07 0.000933
## 3956  -1.97e-02 1.003 2.77e-05 0.001149
## 3957  -9.01e-04 1.005 5.80e-08 0.001383
## 3958  2.42e-02 1.003 4.18e-05 0.001281
## 3959  2.77e-02 1.002 5.48e-05 0.000973
## 3960  -2.09e-03 1.005 3.12e-07 0.002135
## 3961  -4.71e-03 1.004 1.58e-06 0.001218
## 3962  -1.18e-02 1.005 9.97e-06 0.001553
## 3963  -4.69e-03 1.005 1.57e-06 0.001483
## 3964  -3.44e-03 1.005 8.46e-07 0.001465
## 3965  -9.62e-03 1.004 6.61e-06 0.001423
## 3966  6.79e-03 1.005 3.29e-06 0.001521
## 3967  -2.20e-03 1.005 3.46e-07 0.001739
## 3968  -7.62e-03 1.005 4.15e-06 0.001482
## 3969  1.59e-02 1.005 1.81e-05 0.001924
## 3970  5.00e-01 0.762 1.75e-02 0.002882 *
## 3971  -1.24e-02 1.004 1.10e-05 0.001397
## 3972  -7.71e-03 1.005 4.24e-06 0.002047
## 3973  -7.72e-03 1.005 4.26e-06 0.001435
## 3974  -4.32e-04 1.004 1.33e-08 0.001230
## 3975  2.87e-02 1.001 5.88e-05 0.000786
## 3976  -4.28e-03 1.004 1.31e-06 0.001296
## 3977  -2.58e-02 1.005 4.75e-05 0.002275
## 3978  9.56e-03 1.005 6.52e-06 0.001552
## 3979  -2.15e-02 1.003 3.31e-05 0.001192
## 3980  -2.37e-02 1.010 4.03e-05 0.006625
## 3981  4.14e-02 1.001 1.22e-04 0.001410
## 3982  1.16e-01 1.001 9.58e-04 0.005478
## 3983  -2.97e-02 1.016 6.32e-05 0.012987 *
## 3984  -1.56e-02 1.007 1.74e-05 0.003529
## 3985  4.54e-02 1.004 1.47e-04 0.003232
## 3986  -1.36e-02 1.004 1.33e-05 0.000982
## 3987  -1.04e-02 1.004 7.75e-06 0.001088
## 3988  5.31e-03 1.004 2.01e-06 0.001234

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## 3989  5.68e-02 0.998 2.30e-04 0.001607
## 3990  2.12e-02 1.003 3.22e-05 0.001294
## 3991 -1.41e-02 1.004 1.42e-05 0.001080
## 3992 -1.13e-02 1.008 9.04e-06 0.004511
## 3993  7.89e-02 1.015 4.44e-04 0.013218 *
## 3994 -1.08e-02 1.004 8.36e-06 0.001322
## 3995  4.66e-02 1.014 1.55e-04 0.011083 *
## 3996  4.48e-02 1.001 1.43e-04 0.001626
## 3997 -3.32e-03 1.004 7.85e-07 0.000801
## 3998 -1.59e-02 1.007 1.80e-05 0.003749
## 3999 -1.68e-03 1.005 2.02e-07 0.001408
## 4000  3.21e-02 1.000 7.37e-05 0.000808
## 4001  1.69e-02 1.003 2.03e-05 0.000848
## 4002 -1.07e-02 1.030 8.15e-06 0.025599 *
## 4003  1.69e-02 1.003 2.03e-05 0.000848
## 4004 -6.48e-03 1.004 3.00e-06 0.000772
## 4005 -9.49e-04 1.004 6.43e-08 0.001196
## 4006  4.86e-02 0.999 1.68e-04 0.001376
## 4007  4.10e-02 1.016 1.20e-04 0.012734 *
## 4008 -2.10e-02 1.002 3.14e-05 0.000822
## 4009  4.04e-02 1.005 1.17e-04 0.003138
## 4010  1.31e-02 1.004 1.23e-05 0.001219
## 4011  5.57e-03 1.005 2.22e-06 0.001333
## 4012  8.74e-03 1.005 5.46e-06 0.001528
## 4013 -1.60e-03 1.004 1.83e-07 0.000751
## 4014 -1.06e-02 1.004 7.96e-06 0.001140
## 4015 -1.90e-03 1.005 2.58e-07 0.001294
## 4016 -5.50e-02 1.003 2.16e-04 0.003103
## 4017 -1.50e-02 1.006 1.61e-05 0.002740
## 4018  1.04e-02 1.004 7.69e-06 0.001232
## 4019 -2.03e-03 1.004 2.95e-07 0.001115
## 4020  2.37e-02 1.003 4.03e-05 0.001064
## 4021  1.03e-01 1.002 7.61e-04 0.005347
## 4022  1.31e-02 1.005 1.23e-05 0.001757
## 4023  1.53e-02 1.004 1.67e-05 0.001290
## 4024  9.32e-03 1.004 6.21e-06 0.001246
## 4025  2.40e-02 1.002 4.12e-05 0.000979
## 4026  6.80e-04 1.005 3.30e-08 0.001260
## 4027  1.89e-03 1.005 2.54e-07 0.001300
## 4028  3.60e-03 1.004 9.25e-07 0.001059
## 4029  6.21e-02 1.015 2.75e-04 0.012639 *
## 4030 -5.98e-02 1.016 2.55e-04 0.013001 *
## 4031  2.79e-03 1.004 5.55e-07 0.000920
## 4032 -1.53e-02 1.003 1.68e-05 0.000832
## 4033  7.16e-03 1.004 3.67e-06 0.000866
## 4034 -1.56e-01 0.986 1.73e-03 0.003674 *
## 4035 -1.38e-02 1.004 1.36e-05 0.001070
## 4036 -2.30e-02 1.002 3.79e-05 0.000897
## 4037  9.79e-03 1.005 6.85e-06 0.001884
## 4038 -8.13e-03 1.005 4.72e-06 0.001642
## 4039 -5.12e-03 1.004 1.87e-06 0.000985
## 4040 -2.47e-02 1.004 4.36e-05 0.001942
## 4041 -1.28e-02 1.005 1.17e-05 0.001730
## 4042 -2.04e-02 1.005 2.97e-05 0.001950

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## 4043 -7.38e-02 1.001 3.89e-04 0.003118
## 4044  7.56e-03 1.006 4.08e-06 0.002620
## 4045 -4.46e-03 1.006 1.42e-06 0.002696
## 4046 -3.03e-02 1.006 6.58e-05 0.003538
## 4047  6.27e-04 1.004 2.81e-08 0.000936
## 4048  3.85e-01 0.860 1.05e-02 0.003037 *
## 4049 -1.70e-02 1.008 2.07e-05 0.005067
## 4050  9.74e-02 1.001 6.78e-04 0.004331
## 4051  1.70e-02 1.007 2.06e-05 0.003630
## 4052 -1.65e-02 1.004 1.95e-05 0.001174
## 4053  3.50e-02 0.999 8.73e-05 0.000838
## 4054 -2.79e-02 1.003 5.57e-05 0.001353
## 4055 -1.63e-02 1.003 1.89e-05 0.000952
## 4056  2.21e-02 1.003 3.49e-05 0.000977
## 4057  2.50e-03 1.004 4.46e-07 0.001027
## 4058  6.18e-03 1.004 2.73e-06 0.000970
## 4059 -9.96e-03 1.004 7.09e-06 0.001070
## 4060 -2.73e-02 1.005 5.32e-05 0.003005
## 4061  7.59e-03 1.004 4.12e-06 0.001321
## 4062 -1.79e-06 1.005 2.29e-13 0.001262
## 4063  1.59e-02 1.004 1.81e-05 0.001301
## 4064 -3.13e-02 1.030 6.99e-05 0.026114 *
## 4065 -3.62e-03 1.005 9.38e-07 0.001537
## 4066 -3.93e-03 1.005 1.11e-06 0.001646
## 4067  1.42e-02 1.004 1.45e-05 0.001557
## 4068 -7.68e-02 0.999 4.21e-04 0.002850
## 4069  8.49e-03 1.005 5.15e-06 0.001423
## 4070 -2.36e-03 1.004 3.99e-07 0.000920
## 4071  1.20e-02 1.005 1.03e-05 0.001644
## 4072  4.19e-03 1.005 1.26e-06 0.001484
## 4073  3.70e-02 1.004 9.79e-05 0.002580
## 4074 -1.32e-02 1.007 1.25e-05 0.004019
## 4075 -7.84e-03 1.005 4.39e-06 0.001439
## 4076 -1.10e-02 1.005 8.66e-06 0.001762
## 4077  8.60e-02 1.029 5.28e-04 0.025993 *
## 4078 -4.14e-03 1.004 1.22e-06 0.000945
## 4079 -1.12e-03 1.004 9.01e-08 0.000897
## 4080 -1.93e-02 1.004 2.67e-05 0.001286
## 4081 -4.95e-03 1.005 1.75e-06 0.001729
## 4082 -1.41e-02 1.004 1.41e-05 0.001079
## 4083  1.18e-02 1.004 1.00e-05 0.001217
## 4084  1.34e-02 1.007 1.27e-05 0.003590
## 4085  1.15e-02 1.006 9.45e-06 0.002508
## 4086 -2.64e-02 1.003 4.97e-05 0.001526
## 4087  3.90e-03 1.005 1.09e-06 0.001383
## 4088 -3.52e-03 1.005 8.85e-07 0.001318
## 4089  4.01e-02 1.008 1.15e-04 0.005966
## 4090 -9.08e-03 1.004 5.89e-06 0.000843
## 4091 -3.25e-03 1.004 7.53e-07 0.000782
## 4092 -1.07e-01 0.994 8.24e-04 0.003015
## 4093 -2.64e-02 1.002 4.97e-05 0.000946
## 4094 -3.39e-02 1.002 8.23e-05 0.001450
## 4095 -1.82e-01 1.006 2.37e-03 0.011956 *
## 4096  7.14e-03 1.005 3.64e-06 0.001540

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## 4097 7.72e-02 1.012 4.26e-04 0.010342 *
## 4098 1.45e-04 1.014 1.51e-09 0.010285 *
## 4099 -4.95e-02 1.013 1.75e-04 0.010245 *
## 4100 -8.90e-02 1.011 5.66e-04 0.010209 *
## 4101 -6.74e-02 1.012 3.25e-04 0.010201 *
## 4102 -1.01e-02 1.004 7.31e-06 0.000813
## 4103 1.69e-03 1.005 2.04e-07 0.001437
## 4104 -4.20e-03 1.004 1.26e-06 0.000760
## 4105 -2.98e-03 1.004 6.33e-07 0.000902
## 4106 -4.16e-02 1.002 1.24e-04 0.001672
## 4107 1.46e-02 1.004 1.52e-05 0.001040
## 4108 -3.14e-02 1.001 7.03e-05 0.000897
## 4109 -3.91e-02 1.006 1.09e-04 0.004013
## 4110 -2.29e-02 1.004 3.73e-05 0.001627
## 4111 -2.79e-02 1.003 5.57e-05 0.001353
## 4112 4.49e-03 1.005 1.44e-06 0.002234
## 4113 -1.44e-02 1.004 1.48e-05 0.000968
## 4114 -1.28e-02 1.004 1.17e-05 0.000905
## 4115 9.37e-03 1.005 6.27e-06 0.001552
## 4116 1.13e-02 1.005 9.20e-06 0.001922
## 4117 5.18e-03 1.005 1.91e-06 0.001336
## 4118 -1.61e-02 1.004 1.84e-05 0.001617
## 4119 -2.48e-02 1.004 4.41e-05 0.001768
## 4120 -9.02e-02 0.998 5.82e-04 0.003127
## 4121 3.14e-04 1.005 7.02e-09 0.001644
## 4122 1.46e-02 1.004 1.53e-05 0.001527
## 4123 7.14e-03 1.005 3.64e-06 0.001533
## 4124 -2.56e-02 1.002 4.70e-05 0.001079
## 4125 -6.82e-03 1.005 3.32e-06 0.001496
## 4126 -8.54e-03 1.005 5.20e-06 0.001684
## 4127 -2.14e-02 1.004 3.28e-05 0.001551
## 4128 -1.65e-02 1.004 1.95e-05 0.001466
## 4129 5.44e-03 1.004 2.11e-06 0.001156
## 4130 -6.06e-03 1.004 2.63e-06 0.001174
## 4131 3.62e-03 1.004 9.39e-07 0.001151
## 4132 2.05e-02 1.003 2.99e-05 0.000867
## 4133 4.34e-02 1.016 1.35e-04 0.013138 *
## 4134 -2.63e-02 1.003 4.94e-05 0.001411
## 4135 -1.66e-02 1.003 1.96e-05 0.000815
## 4136 -1.77e-02 1.005 2.23e-05 0.002439
## 4137 1.11e-02 1.004 8.78e-06 0.001290
## 4138 -7.94e-03 1.004 4.51e-06 0.000808
## 4139 1.69e-03 1.005 2.05e-07 0.001414
## 4140 1.48e-02 1.004 1.57e-05 0.001108
## 4141 -1.91e-02 1.029 2.61e-05 0.025546 *
## 4142 -2.07e-02 1.003 3.07e-05 0.001155
## 4143 2.66e-02 1.003 5.06e-05 0.001276
## 4144 2.77e-02 1.007 5.48e-05 0.004025
## 4145 -3.05e-02 1.003 6.64e-05 0.001495
## 4146      NaN      NaN      NaN 1.000000 *
## 4147 -2.07e-02 1.006 3.06e-05 0.003060
## 4148 -8.32e-02 1.002 4.95e-04 0.003959
## 4149 -3.46e-02 1.004 8.57e-05 0.002528
## 4150 5.90e-03 1.005 2.48e-06 0.001447

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## 4151 -2.00e-02 1.004 2.86e-05 0.001404
## 4152 2.18e-02 1.004 3.40e-05 0.001888
## 4153 9.69e-03 1.030 6.71e-06 0.026086 *
## 4154 2.17e-03 1.006 3.35e-07 0.002778
## 4155 5.96e-03 1.004 2.54e-06 0.001027
## 4156 2.36e-03 1.005 3.97e-07 0.001336
## 4157 -9.73e-03 1.004 6.76e-06 0.001271
## 4158 2.36e-03 1.004 3.98e-07 0.000959
## 4159 -2.61e-02 1.004 4.86e-05 0.001752
## 4160 -2.60e-02 1.002 4.84e-05 0.001079
## 4161 9.96e-03 1.004 7.09e-06 0.001083
## 4162 -1.87e-03 1.005 2.50e-07 0.001616
## 4163 1.17e-02 1.004 9.86e-06 0.000906
## 4164 1.51e-02 1.007 1.63e-05 0.003631
## 4165 -1.19e-02 1.004 1.00e-05 0.001133
## 4166 -6.75e-03 1.004 3.26e-06 0.000836
## 4167 5.91e-03 1.004 2.50e-06 0.000774
## 4168 1.01e-02 1.007 7.27e-06 0.003741
## 4169 -8.43e-03 1.004 5.07e-06 0.001202
## 4170 -1.01e-01 1.004 7.26e-04 0.006128
## 4171 4.90e-02 0.998 1.71e-04 0.001179
## 4172 -1.78e-03 1.007 2.27e-07 0.003906
## 4173 -1.57e-02 1.003 1.76e-05 0.000960
## 4174 -3.25e-03 1.004 7.53e-07 0.000782
## 4175 -1.01e-02 1.004 7.31e-06 0.000813
## 4176 3.70e-03 1.004 9.79e-07 0.001226
## 4177 -2.35e-02 1.003 3.96e-05 0.001059
## 4178 -2.62e-02 1.003 4.90e-05 0.001459
## 4179 -2.26e-02 1.004 3.65e-05 0.001459
## 4180 1.62e-02 1.004 1.87e-05 0.001450
## 4181 -2.30e-02 1.004 3.78e-05 0.001447
## 4182 -2.43e-02 1.005 4.22e-05 0.002816
## 4183 -4.79e-03 1.004 1.64e-06 0.000876
## 4184 1.12e-03 1.006 9.00e-08 0.002284
## 4185 2.05e-01 1.042 3.00e-03 0.040275 *
## 4186 -1.56e-02 1.004 1.74e-05 0.001521
## 4187 1.50e-01 0.982 1.61e-03 0.002992 *
## 4188 -1.18e-02 1.004 9.99e-06 0.001459
## 4189 -1.07e-02 1.004 8.23e-06 0.001395
## 4190 -1.76e-02 1.004 2.22e-05 0.001471
## 4191 2.60e-02 1.001 4.82e-05 0.000829
## 4192 -8.96e-04 1.005 5.73e-08 0.001531
## 4193 -1.12e-02 1.004 8.95e-06 0.001407
## 4194 1.84e-02 1.003 2.43e-05 0.000978
## 4195 6.05e-03 1.004 2.62e-06 0.001147
## 4196 2.36e-02 1.006 3.97e-05 0.003633
## 4197 8.52e-03 1.005 5.19e-06 0.001799
## 4198 -7.27e-03 1.007 3.77e-06 0.003537
## 4199 -7.78e-03 1.005 4.32e-06 0.001421
## 4200 -7.94e-03 1.006 4.50e-06 0.002649
## 4201 3.83e-02 1.003 1.05e-04 0.001982
## 4202 -6.56e-03 1.005 3.07e-06 0.001490
## 4203 -1.63e-02 1.004 1.90e-05 0.001511
## 4204 1.10e-02 1.005 8.71e-06 0.001580

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## 4205  3.77e-02 1.006 1.01e-04 0.003624
## 4206 -1.53e-02 1.006 1.67e-05 0.003266
## 4207  1.41e-02 1.003 1.42e-05 0.000768
## 4208 -5.24e-03 1.007 1.96e-06 0.003895
## 4209  2.85e-02 1.010 5.80e-05 0.007412 *
## 4210 -2.48e-03 1.005 4.38e-07 0.001604
## 4211  5.21e-03 1.004 1.94e-06 0.001027
## 4212  2.68e-03 1.004 5.15e-07 0.001135
## 4213 -2.25e-03 1.004 3.60e-07 0.000765
## 4214  3.75e-03 1.005 1.01e-06 0.001839
## 4215 -5.88e-03 1.004 2.47e-06 0.000858
## 4216 -5.27e-03 1.004 1.99e-06 0.001032
## 4217  3.09e-02 1.000 6.84e-05 0.000789
## 4218  1.72e-02 1.003 2.11e-05 0.000897
## 4219  2.10e-02 1.003 3.14e-05 0.001053
## 4220  1.78e-04 1.004 2.26e-09 0.001049
## 4221 -1.64e-02 1.003 1.91e-05 0.000866
## 4222 -2.67e-05 1.004 5.10e-11 0.001003
## 4223 -1.64e-02 1.004 1.93e-05 0.001422
## 4224 -8.78e-03 1.004 5.50e-06 0.001063
## 4225  1.97e-01 0.977 2.77e-03 0.004070 *
## 4226  5.21e-03 1.004 1.94e-06 0.000897
## 4227 -6.27e-03 1.005 2.81e-06 0.001410
## 4228 -2.44e-03 1.004 4.25e-07 0.001181
## 4229  3.98e-02 0.997 1.13e-04 0.000774
## 4230 -2.27e-02 1.004 3.68e-05 0.001559
## 4231 -2.70e-02 1.007 5.22e-05 0.004139
## 4232  7.18e-02 1.003 3.68e-04 0.004056
## 4233 -1.04e-01 1.001 7.67e-04 0.004683
## 4234 -4.16e-02 1.005 1.23e-04 0.003553
## 4235  1.99e-03 1.004 2.82e-07 0.001088
## 4236 -4.65e-02 1.005 1.54e-04 0.003884
## 4237 -2.40e-02 1.003 4.12e-05 0.001160
## 4238  1.42e-02 1.005 1.45e-05 0.001738
## 4239 -2.43e-02 1.003 4.21e-05 0.001496
## 4240  1.10e-02 1.004 8.65e-06 0.001491
## 4241  9.37e-04 1.004 6.28e-08 0.000745
## 4242 -1.11e-02 1.005 8.77e-06 0.001739
## 4243 -6.05e-03 1.005 2.62e-06 0.001519
## 4244  1.34e-02 1.004 1.28e-05 0.001169
## 4245 -8.94e-03 1.005 5.71e-06 0.001508
## 4246 -1.28e-02 1.004 1.16e-05 0.001560
## 4247 -9.07e-03 1.004 5.87e-06 0.001427
## 4248  2.07e-02 1.006 3.07e-05 0.002868
## 4249 -1.44e-02 1.004 1.48e-05 0.001584
## 4250  2.70e-02 1.005 5.20e-05 0.002560
## 4251 -1.54e-02 1.005 1.69e-05 0.001722
## 4252 -1.15e-02 1.006 9.48e-06 0.002898
## 4253 -1.47e-02 1.004 1.54e-05 0.001643
## 4254  2.31e-02 1.004 3.81e-05 0.001752
## 4255 -7.51e-02 1.003 4.03e-04 0.004157
## 4256  3.76e-02 1.006 1.01e-04 0.004002
## 4257 -2.40e-02 1.003 4.12e-05 0.001160
## 4258  1.42e-02 1.005 1.45e-05 0.001738

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## 4259 -2.43e-02 1.003 4.21e-05 0.001496
## 4260  1.10e-02 1.004 8.65e-06 0.001491
## 4261  9.37e-04 1.004 6.28e-08 0.000745
## 4262 -1.11e-02 1.005 8.77e-06 0.001739
## 4263 -6.05e-03 1.005 2.62e-06 0.001519
## 4264  1.34e-02 1.004 1.28e-05 0.001169
## 4265 -8.94e-03 1.005 5.71e-06 0.001508
## 4266 -1.28e-02 1.004 1.16e-05 0.001560
## 4267 -9.07e-03 1.004 5.87e-06 0.001427
## 4268  2.07e-02 1.006 3.07e-05 0.002868
## 4269 -1.44e-02 1.004 1.48e-05 0.001584
## 4270  2.70e-02 1.005 5.20e-05 0.002560
## 4271 -1.54e-02 1.005 1.69e-05 0.001722
## 4272 -1.15e-02 1.006 9.48e-06 0.002898
## 4273 -1.47e-02 1.004 1.54e-05 0.001643
## 4274  2.31e-02 1.004 3.81e-05 0.001752
## 4275 -7.51e-02 1.003 4.03e-04 0.004157
## 4276  3.76e-02 1.006 1.01e-04 0.004002
## 4277  2.10e-02 1.007 3.15e-05 0.003668
## 4278 -2.17e-02 1.004 3.37e-05 0.001523
## 4279  4.14e-03 1.005 1.22e-06 0.001488
## 4280  1.45e-02 1.004 1.50e-05 0.001306
## 4281  1.59e-02 1.004 1.81e-05 0.001412
## 4282 -9.59e-04 1.004 6.57e-08 0.000918
## 4283  1.12e-03 1.004 9.00e-08 0.000745
## 4284  1.00e-02 1.004 7.18e-06 0.001366
## 4285  1.56e-02 1.004 1.74e-05 0.001712
## 4286  2.22e-02 1.004 3.51e-05 0.001838
## 4287 -1.73e-02 1.006 2.14e-05 0.002990
## 4288 -1.06e-01 0.999 8.06e-04 0.004190
## 4289  1.71e-02 1.007 2.09e-05 0.003711
## 4290 -8.40e-03 1.004 5.04e-06 0.001135
## 4291  1.64e-02 1.005 1.91e-05 0.001893
## 4292 -1.54e-02 1.004 1.70e-05 0.001244
## 4293 -1.27e-02 1.004 1.15e-05 0.000988
## 4294  3.48e-03 1.006 8.66e-07 0.002831
## 4295 -1.05e-01 0.994 7.84e-04 0.002831
## 4296 -3.73e-04 1.004 9.92e-09 0.000858
## 4297  3.63e-03 1.006 9.42e-07 0.002783
## 4298 -1.31e-01 0.989 1.23e-03 0.003220
## 4299 -8.65e-03 1.004 5.35e-06 0.000807
## 4300 -1.19e-01 0.995 1.01e-03 0.003899
## 4301 -5.88e-02 1.003 2.47e-04 0.003332
## 4302  9.14e-03 1.006 5.96e-06 0.002428
## 4303 -3.81e-02 1.008 1.04e-04 0.005225
## 4304 -5.51e-03 1.005 2.17e-06 0.001725
## 4305  2.80e-01 0.923 5.58e-03 0.002929
## 4306 -3.04e-02 1.003 6.62e-05 0.001713
## 4307 -3.90e-03 1.005 1.09e-06 0.001577
## 4308 -3.02e-02 1.008 6.51e-05 0.005586
## 4309 -2.03e-02 1.003 2.95e-05 0.001064
## 4310 -1.63e-02 1.004 1.89e-05 0.001657
## 4311 -2.22e-02 1.004 3.52e-05 0.001485
## 4312  6.71e-02 1.001 3.22e-04 0.003016

```

```

## 4313 1.65e-02 1.004 1.94e-05 0.001362
## 4314 1.51e-01 0.984 1.63e-03 0.003320 *
## 4315 -5.57e-03 1.005 2.22e-06 0.002226
## 4316 -2.12e-03 1.004 3.22e-07 0.000952
## 4317 -4.56e-03 1.004 1.49e-06 0.000782
## 4318 -6.24e-03 1.004 2.78e-06 0.001294
## 4319 1.50e-02 1.005 1.60e-05 0.001958
## 4320 -7.95e-03 1.004 4.51e-06 0.000940
## 4321 6.27e-03 1.004 2.81e-06 0.001299
## 4322 1.36e-02 1.005 1.33e-05 0.002175
## 4323 1.78e-04 1.004 2.26e-09 0.001049
## 4324 -4.48e-03 1.005 1.43e-06 0.001470
## 4325 -1.30e-02 1.003 1.20e-05 0.000765
## 4326 4.34e-02 1.004 1.34e-04 0.003144
## 4327 3.17e-02 1.007 7.19e-05 0.004159
## 4328 -9.70e-03 1.005 6.72e-06 0.001563
## 4329 -1.88e-02 1.004 2.53e-05 0.001226
## 4330 3.41e-03 1.004 8.32e-07 0.001196
## 4331 -1.63e-02 1.004 1.90e-05 0.001318
## 4332 9.19e-03 1.008 6.04e-06 0.005100
## 4333 1.42e-02 1.004 1.45e-05 0.001110
## 4334 -1.82e-02 1.004 2.36e-05 0.001181
## 4335 1.95e-02 1.005 2.72e-05 0.001998
## 4336 -1.02e-02 1.004 7.41e-06 0.001297
## 4337 -1.02e-02 1.004 7.41e-06 0.001297
## 4338 4.04e-03 1.004 1.17e-06 0.001216
## 4339 1.61e-02 1.003 1.85e-05 0.000867
## 4340 -1.11e-02 1.004 8.88e-06 0.000829
## 4341 2.26e-02 1.003 3.63e-05 0.001014

vehicles2<-vehicles[-c(3873,90,3970,4146),]

ys<-vehicles2$selling_price

xs1<-vehicles2$year #The year of the vehicle when it was sold.

xs2<-vehicles2$km_driven #The number of kilometers the car has driven.

xs3<-vehicles2$fuel #The Fuel type of the car.

xs4<-vehicles2$seller_type #The type of seller who sold the car.

xs5<-vehicles2$transmission #The Gear transmission of the car.

xs6<-vehicles2$owner #The number of previous owners of the car.

#This is our Full regression model that uses all Regressor variables
cars.out<-lm(ys~xs1+xs2+xs3+xs4+xs5+xs6)

#summary statistics of the Full model
summary(cars.out)

```

##

```

## Call:
## lm(formula = ys ~ xs1 + xs2 + xs3 + xs4 + xs5 + xs6)
##
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -1139504 -162878 -22640  113427 3266245 
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)           -6.965e+07 3.578e+06 -19.468 < 2e-16 ***
## xs1                  3.521e+04 1.773e+03  19.859 < 2e-16 ***
## xs2                 -9.233e-01 1.556e-01  -5.936 3.15e-09 ***
## xs3Diesel            2.854e+05 6.301e+04   4.529 6.09e-06 ***
## xs3LPG               4.368e+04 1.032e+05   0.423 0.672214  
## xs3Petrol            -4.262e+03 6.306e+04  -0.068 0.946114  
## xs4Individual        -5.421e+04 1.523e+04  -3.558 0.000377 *** 
## xs4Trustmark Dealer  1.854e+05 4.110e+04   4.512 6.58e-06 *** 
## xs5Manual            -8.341e+05 2.039e+04 -40.901 < 2e-16 *** 
## xs6Fourth & Above Owner -3.835e+03 4.608e+04  -0.083 0.933667  
## xs6Second Owner     -3.989e+04 1.541e+04  -2.588 0.009676 ** 
## xs6Test Drive Car   1.834e+05 9.688e+04   1.893 0.058422 .  
## xs6Third Owner      -4.047e+04 2.568e+04  -1.576 0.115037  
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 393800 on 4324 degrees of freedom
## Multiple R-squared:  0.4836, Adjusted R-squared:  0.4822 
## F-statistic: 337.5 on 12 and 4324 DF, p-value: < 2.2e-16

```

#The Analysis of Variance measurement of the full model

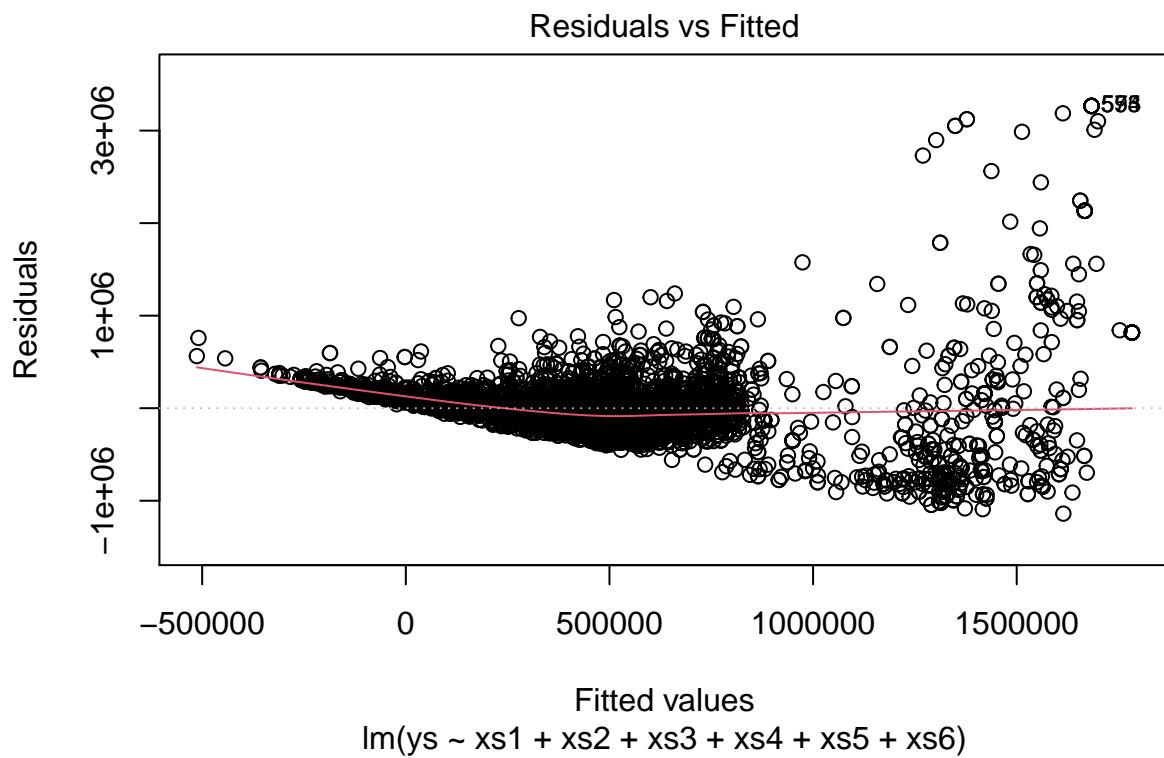
```
anova(cars.out)
```

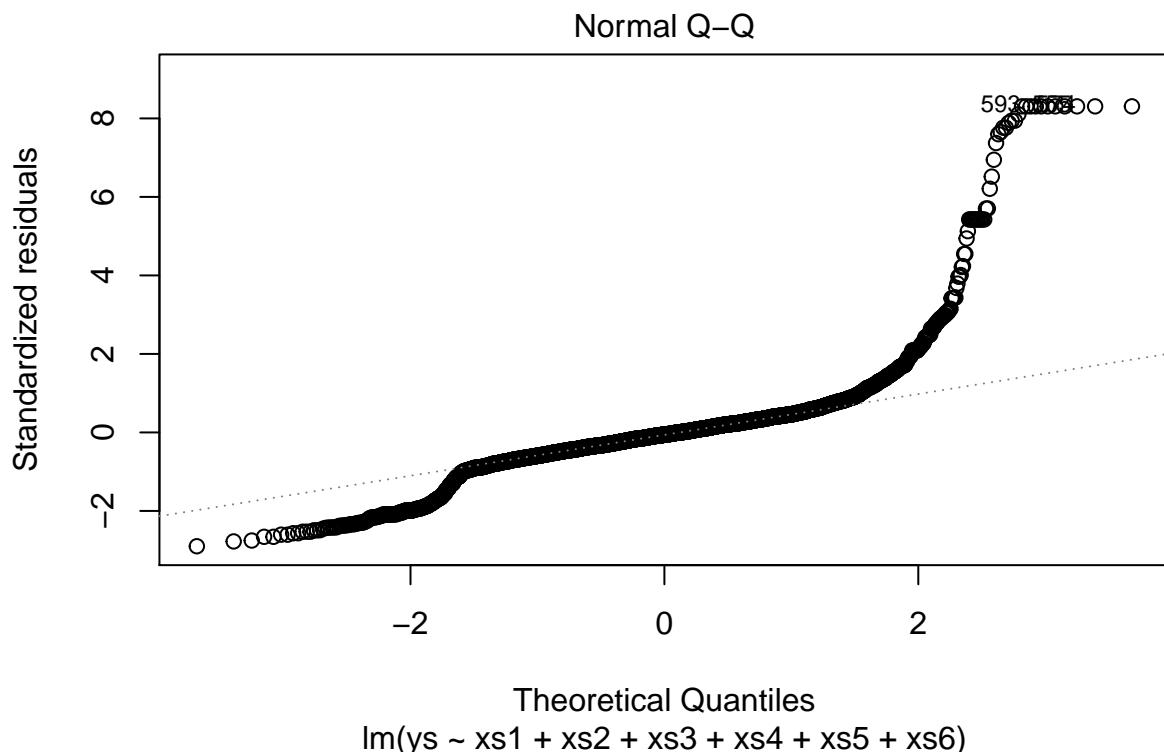
```

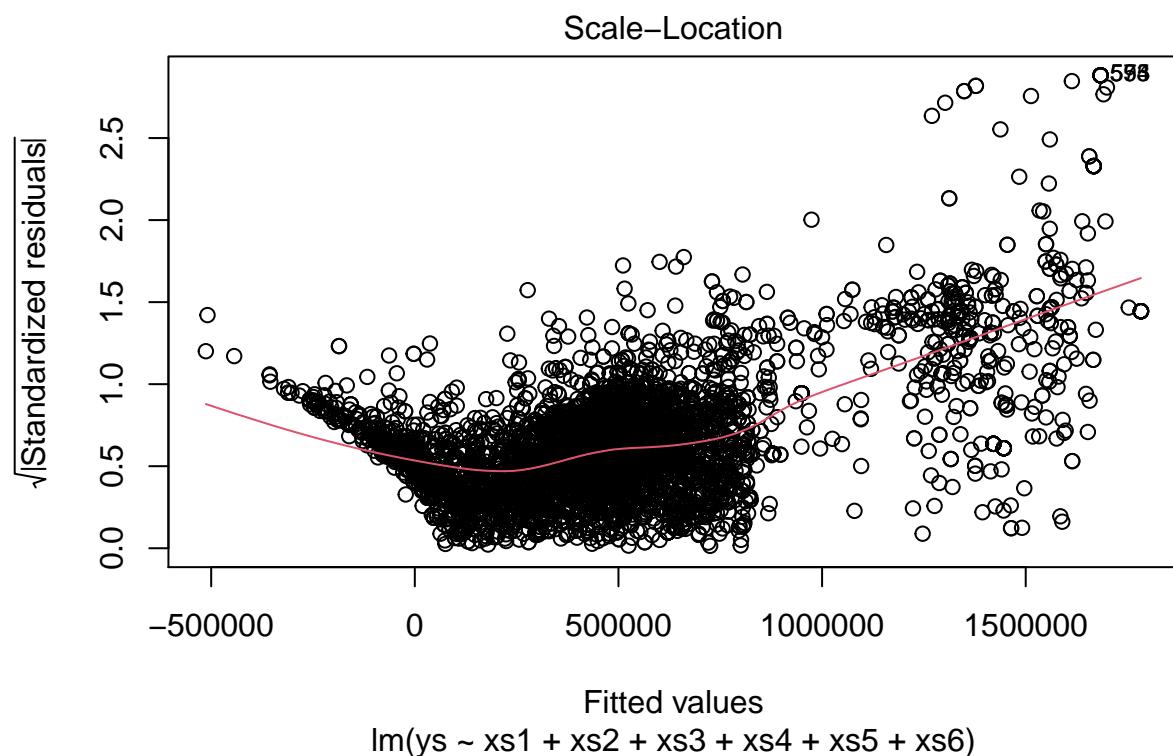
## Analysis of Variance Table
##
## Response: ys
##              Df    Sum Sq    Mean Sq   F value Pr(>F)    
## xs1          1 2.4124e+14 2.4124e+14 1555.8627 < 2e-16 ***
## xs2          1 3.5085e+11 3.5085e+11   2.2628 0.13259  
## xs3          3 9.6988e+13 3.2329e+13  208.5089 < 2e-16 *** 
## xs4          2 2.9214e+13 1.4607e+13   94.2080 < 2e-16 *** 
## xs5          1 2.5842e+14 2.5842e+14 1666.6852 < 2e-16 *** 
## xs6          4 1.7115e+12 4.2786e+11   2.7595 0.02627 *  
## Residuals 4324 6.7044e+14 1.5505e+11 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

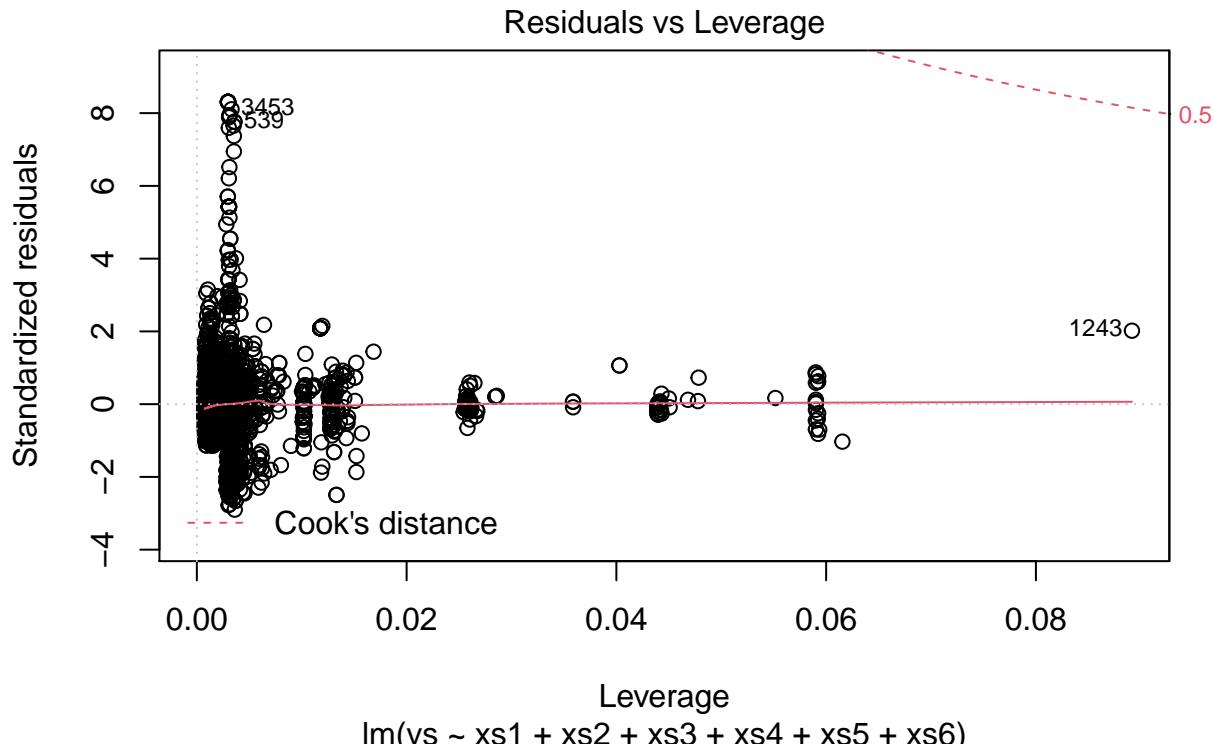
```

```
plot(cars.out)
```









```
xs3P<-rep(0,length(vehicles2$fuel)) #value for cars that use Petrol gas
xs3D<-rep(0,length(vehicles2$fuel)) #value for cars that use Diesel gas
xs3L<-rep(0,length(vehicles2$fuel)) #value for cars that use LPG
```

```
for(i in
  1:length(vehicles2$fuel)) {
  if(vehicles2$fuel[i]=="Petrol")
    xs3P[i] = 1
  if(vehicles2$fuel[i]=="Diesel")
    xs3D[i] = 1
  if(vehicles2$fuel[i]=="LPG")
    xs3L[i] = 1
}
```

```
xs4I<-rep(0,length(vehicles2$seller_type))
xs4T<-rep(0,length(vehicles2$seller_type))

for(i in
  1:length(vehicles2$seller_type)) {
  if(vehicles2$seller_type[i]=="Individual")
    xs4I[i] = 1
  if(vehicles2$seller_type[i]=="Trustmark Dealer")
    xs4T[i] = 1
}
```

```

xs5M<-rep(0,length(vehicles2$transmission))

for(i in
  1:length(vehicles2$transmission)) {
  if(vehicles2$transmission[i]=="Manual")
    xs5M[i] = 1
}

xs6F<-rep(0,length(vehicles2$owner))
xs6S<-rep(0,length(vehicles2$owner))
xs6T<-rep(0,length(vehicles2$owner))
xs6TD<-rep(0, length(vehicles2$owner))
for(i in
  1:length(vehicles2$owner)) {
  if(vehicles2$owner[i]=="Fourth & Above Owner")
    xs6F[i] = 1
  if(vehicles2$owner[i]=="Second Owner")
    xs6S[i] = 1
  if(vehicles2$owner[i]=="Third Owner")
    xs6T[i] = 1
  if(vehicles2$owner[i]=="Test Drive Car")
    xs6TD[i]=1
}

Xs<-cbind(rep(1,length(vehicles2$ys)), xs1, xs2, xs3D, xs3L, xs3P, xs4I, xs4T, xs5M, xs6F, xs6S, xs6TD,
Hs<-Xs%*%solve(t(Xs)%*%Xs)%*%t(Xs)
hiis<-diag(Hs)
ns<-nrow(Xs)
ps<-ncol(Xs)
which(hiis>2*ps/ns)

```

```

## [1] 10 23 43 45 70 76 113 125 137 157 176 222 236 340 351
## [16] 352 361 483 495 525 540 541 542 544 545 546 547 548 549 559
## [31] 560 563 564 569 570 578 579 582 583 588 589 597 598 601 602
## [46] 607 608 616 617 620 621 626 627 657 659 664 666 673 703 712
## [61] 818 824 853 863 904 905 908 909 914 915 923 924 927 928 933
## [76] 934 955 957 986 1024 1028 1031 1034 1035 1037 1040 1053 1057 1067 1101
## [91] 1138 1139 1140 1141 1167 1184 1215 1243 1298 1314 1334 1355 1410 1414 1426
## [106] 1433 1435 1443 1445 1482 1531 1557 1568 1573 1594 1595 1598 1608 1615 1616
## [121] 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1633 1659 1670 1674 1686
## [136] 1694 1699 1702 1714 1715 1716 1726 1774 1775 1776 1777 1778 1779 1780 1781
## [151] 1791 1795 1810 1812 1814 1830 1840 1841 1844 1845 1850 1851 1933 1942 1998
## [166] 2013 2056 2060 2092 2097 2149 2179 2180 2181 2183 2184 2185 2186 2187 2188
## [181] 2194 2197 2216 2218 2243 2244 2247 2248 2253 2254 2262 2263 2266 2267 2272
## [196] 2273 2278 2315 2325 2359 2360 2362 2380 2394 2493 2546 2661 2712 2734 2743
## [211] 2744 2747 2748 2753 2754 2782 2785 2802 2804 2822 2823 2831 2878 2904 2908
## [226] 2910 2924 2955 2961 2964 2974 2998 3012 3014 3020 3031 3041 3048 3083 3090
## [241] 3107 3111 3112 3114 3115 3190 3237 3320 3334 3341 3387 3394 3404 3407 3458
## [256] 3464 3470 3477 3482 3503 3595 3615 3624 3646 3675 3679 3718 3723 3752 3773
## [271] 3778 3781 3783 3830 3835 3849 3897 3901 3977 3980 3990 3992 3999 4004 4026
## [286] 4027 4061 4074 4086 4092 4094 4095 4096 4097 4098 4130 4138 4149 4166 4181
## [301] 4205

```

```

max(hiis)

## [1] 0.08085388

cars.out2<-lm(ys~xs1+xs2+xs3D+xs3L+xs3P+xs4I+xs4T+xs5M+xs6F+xs6S+xs6TD+xs6T)
summary(cars.out2)

## 
## Call:
## lm(formula = ys ~ xs1 + xs2 + xs3D + xs3L + xs3P + xs4I + xs4T +
##     xs5M + xs6F + xs6S + xs6TD + xs6T)
## 
## Residuals:
##       Min     1Q Median     3Q    Max 
## -1139504 -162878 -22640  113427 3266245 
## 
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) -6.965e+07 3.578e+06 -19.468 < 2e-16 ***
## xs1          3.521e+04 1.773e+03  19.859 < 2e-16 ***
## xs2         -9.233e-01 1.556e-01  -5.936 3.15e-09 ***
## xs3D         2.854e+05 6.301e+04   4.529 6.09e-06 ***
## xs3L         4.368e+04 1.032e+05   0.423 0.672214  
## xs3P         -4.262e+03 6.306e+04  -0.068 0.946114  
## xs4I         -5.421e+04 1.523e+04  -3.558 0.000377 *** 
## xs4T         1.854e+05 4.110e+04   4.512 6.58e-06 *** 
## xs5M         -8.341e+05 2.039e+04 -40.901 < 2e-16 ***
## xs6F         -3.835e+03 4.608e+04  -0.083 0.933667  
## xs6S         -3.989e+04 1.541e+04  -2.588 0.009676 ** 
## xs6TD        1.834e+05 9.688e+04   1.893 0.058422 .  
## xs6T         -4.047e+04 2.568e+04  -1.576 0.115037  
## --- 
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
## 
## Residual standard error: 393800 on 4324 degrees of freedom
## Multiple R-squared:  0.4836, Adjusted R-squared:  0.4822 
## F-statistic: 337.5 on 12 and 4324 DF,  p-value: < 2.2e-16

anova(cars.out2)

## Analysis of Variance Table
## 
## Response: ys
##             Df Sum Sq Mean Sq F value Pr(>F)    
## xs1          1 2.4124e+14 2.4124e+14 1555.8627 < 2.2e-16 ***
## xs2          1 3.5085e+11 3.5085e+11   2.2628 0.1325852  
## xs3D         1 9.6749e+13 9.6749e+13  623.9833 < 2.2e-16 ***
## xs3L         1 2.0750e+08 2.0750e+08   0.0013 0.9708196  
## xs3P         1 2.3909e+11 2.3909e+11   1.5420 0.2143898  
## xs4I          1 2.7238e+13 2.7238e+13  175.6722 < 2.2e-16 ***
## xs4T          1 1.9759e+12 1.9759e+12  12.7438 0.0003611 *** 
## xs5M          1 2.5842e+14 2.5842e+14 1666.6852 < 2.2e-16 ***

```

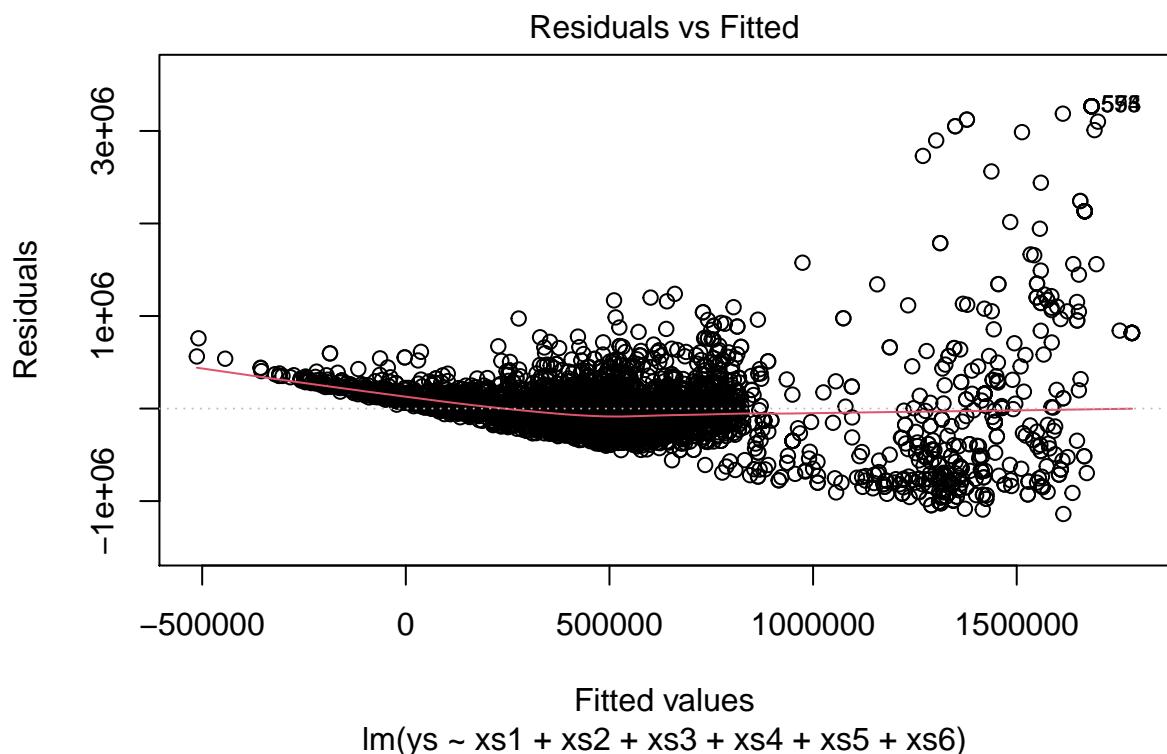
```

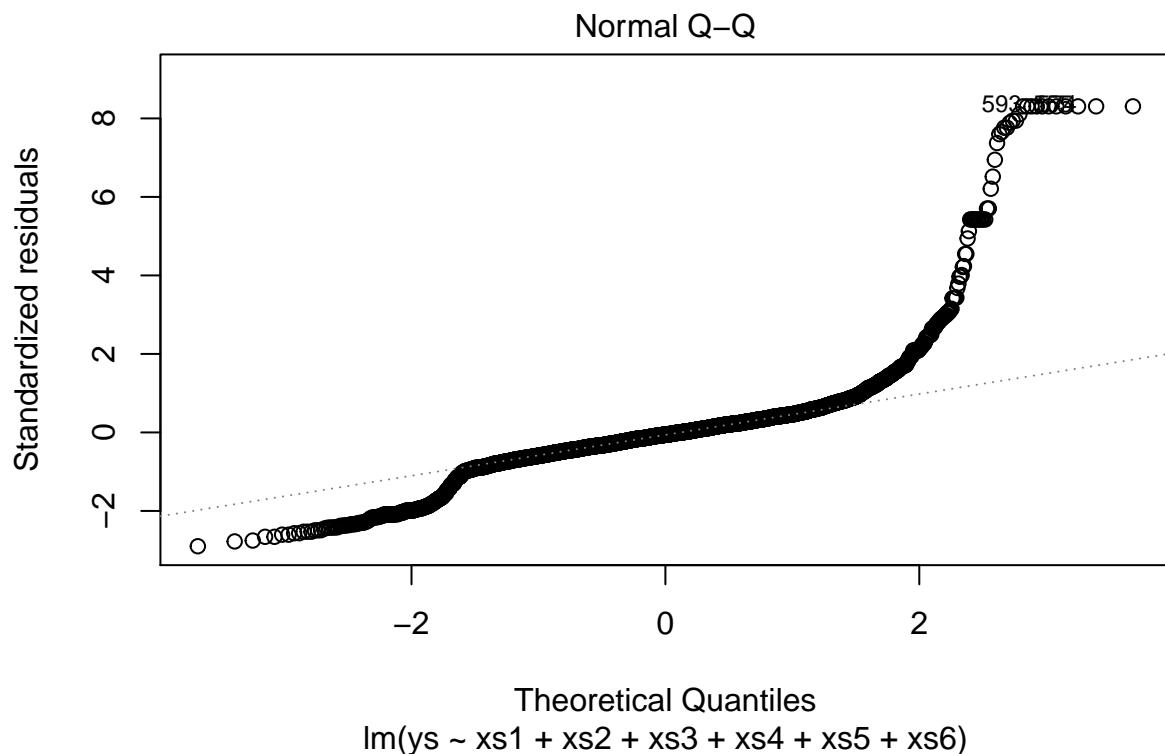
## xs6F      1 4.2215e+10 4.2215e+10  0.2723 0.6018419
## xs6S      1 7.5273e+11 7.5273e+11  4.8547 0.0276234 *
## xs6TD     1 5.3127e+11 5.3127e+11  3.4264 0.0642282 .
## xs6T      1 3.8524e+11 3.8524e+11  2.4846 0.1150375
## Residuals 4324 6.7044e+14 1.5505e+11
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

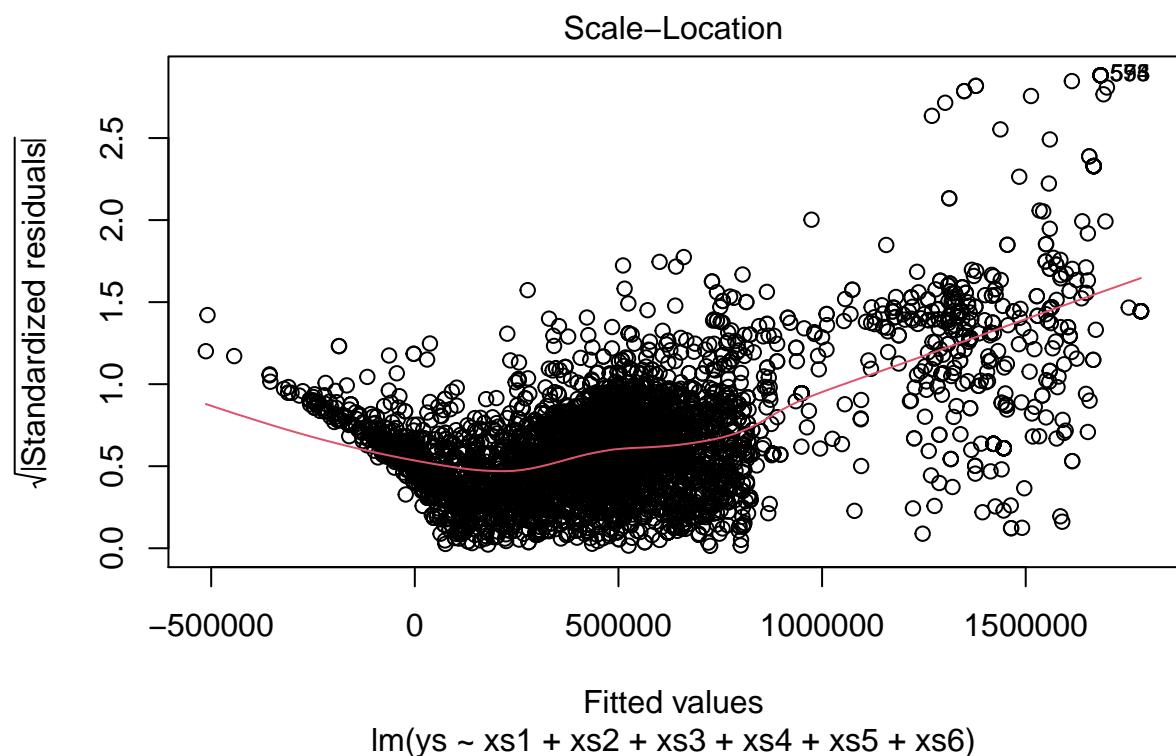
carspreds2 <- predict(cars.out2, vehicles2)

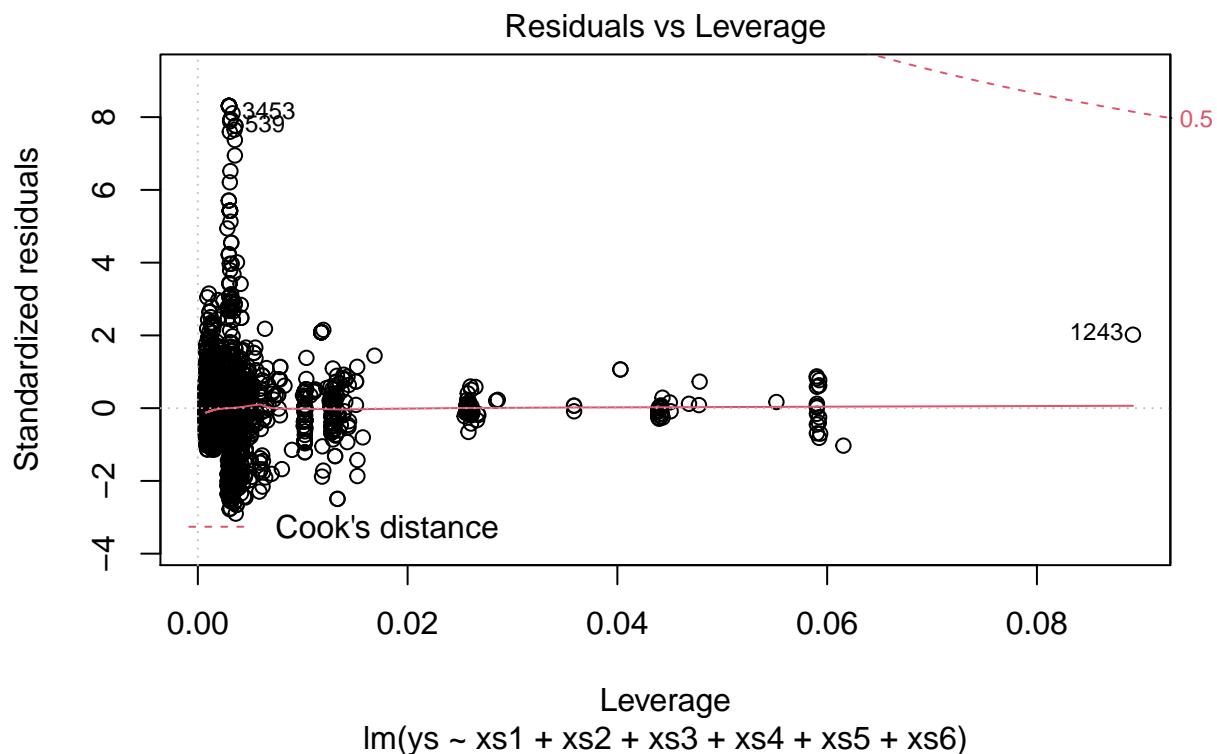
carspreds<-predict(cars.out)
carsres<-resid(cars.out)
carsrstand<-rstandard(cars.out)
carsrstud<-rstudent(cars.out)
plot(cars.out)

```

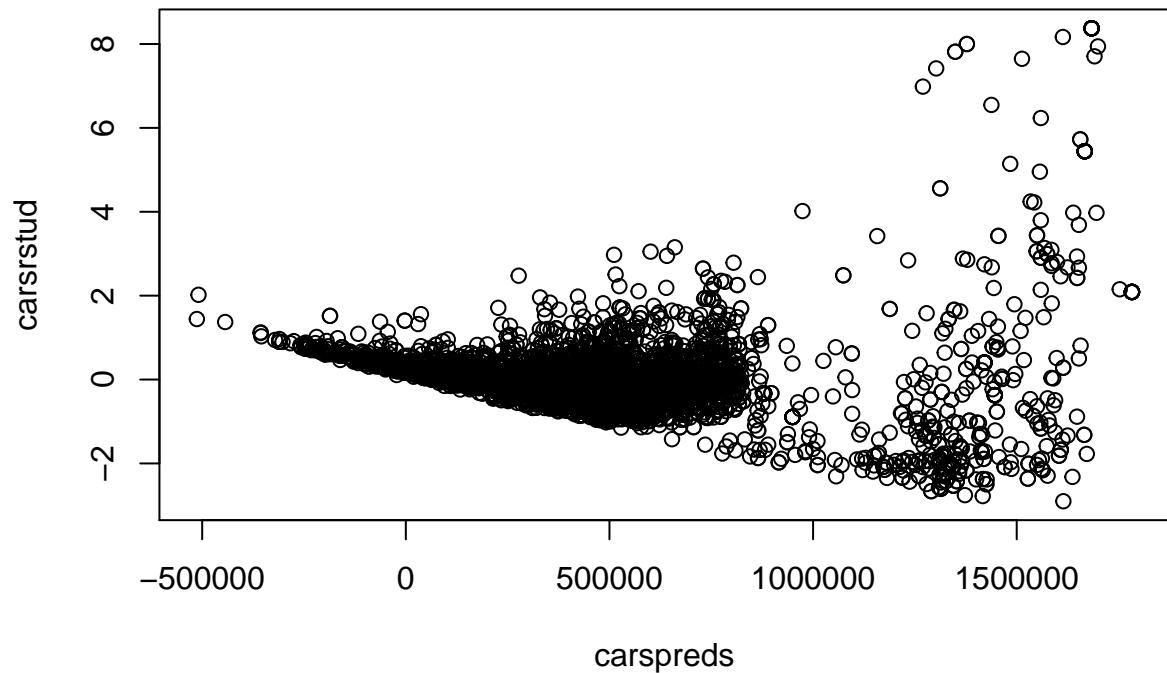




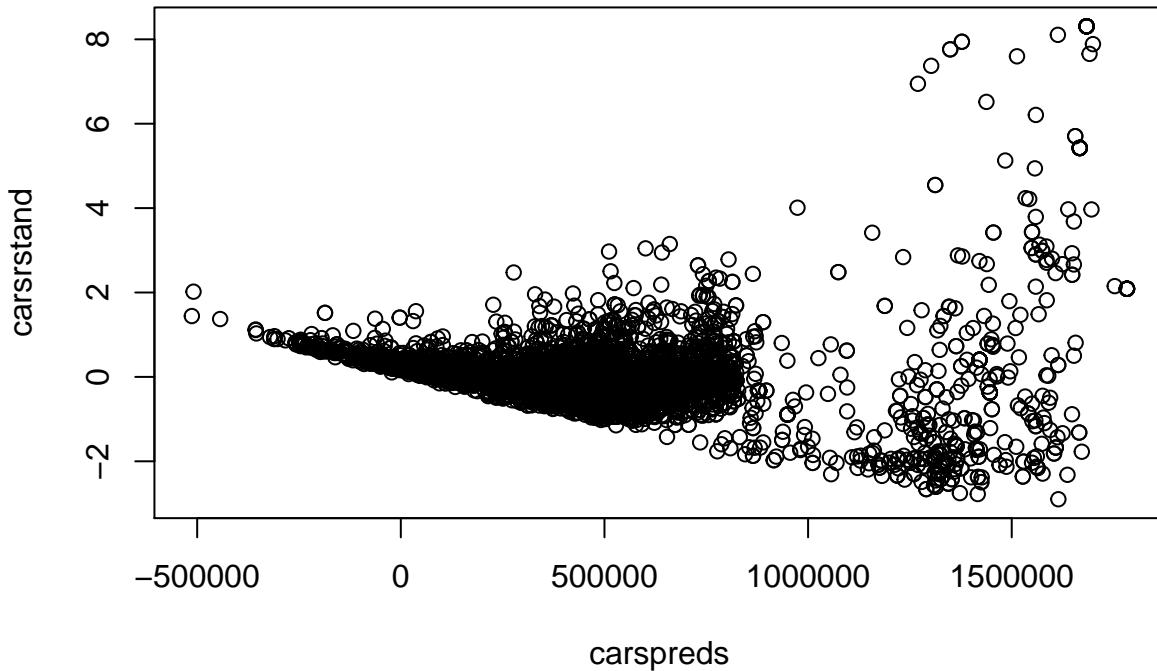




```
plot(carspreds,carsrstud)
```



```
plot(carspreds,carsrstand)
```



```

carsresidtable<-cbind(carsres, carsrstand, carsrstud)
max(res)

## [1] 7547736

#transformed equation
vehicles.out3<-lm(log(ys)~xs1+xs2+xs3+xs4+xs5+xs6)
summary(vehicles.out3)

##
## Call:
## lm(formula = log(ys) ~ xs1 + xs2 + xs3 + xs4 + xs5 + xs6)
##
## Residuals:
##      Min        1Q    Median        3Q       Max
## -1.77019 -0.30140  0.00038  0.28916  2.35499
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) -2.138e+02  4.259e+00 -50.201 < 2e-16 ***
## xs1          1.128e-01  2.110e-03  53.460 < 2e-16 ***
## xs2          -3.846e-07  1.852e-07 -2.077 0.037877 *
## xs3Diesel    5.837e-01  7.501e-02   7.782 8.84e-15 ***
## xs3LPG       -5.095e-02  1.229e-01  -0.415 0.678411
## xs3Petrol    7.329e-02  7.507e-02   0.976 0.328938

```

```

## xs4Individual      -1.531e-01  1.814e-02 -8.443 < 2e-16 ***
## xs4Trustmark Dealer   3.136e-01  4.893e-02  6.409 1.62e-10 ***
## xs5Manual          -7.919e-01  2.428e-02 -32.619 < 2e-16 ***
## xs6Fourth & Above Owner -1.404e-01  5.485e-02 -2.560 0.010487 *
## xs6Second Owner     -4.604e-02  1.835e-02 -2.509 0.012141 *
## xs6Test Drive Car    1.698e-01  1.153e-01  1.472 0.140998
## xs6Third Owner      -1.166e-01  3.057e-02 -3.814 0.000138 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4688 on 4324 degrees of freedom
## Multiple R-squared:  0.6863, Adjusted R-squared:  0.6854
## F-statistic: 788.3 on 12 and 4324 DF, p-value: < 2.2e-16

```

```
anova(vehicles.out3)
```

```

## Analysis of Variance Table
##
## Response: log(ys)
##             Df  Sum Sq Mean Sq  F value    Pr(>F)
## xs1          1 1472.97 1472.97 6703.2425 < 2.2e-16 ***
## xs2          1     9.42    9.42   42.8735 6.522e-11 ***
## xs3          3  283.53   94.51   430.0962 < 2.2e-16 ***
## xs4          2   76.20   38.10   173.3898 < 2.2e-16 ***
## xs5          1  231.77  231.77  1054.7316 < 2.2e-16 ***
## xs6          4     4.78    1.19    5.4353  0.0002308 ***
## Residuals 4324  950.15    0.22
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```
qf(1-0.05, 4, 4326)
```

```
## [1] 2.373986
```

```
vehicles.out4<-lm(log(ys)~xs1+xs2+xs3D+xs3L+xs3P+xs4I+xs4T+xs5M+xs6F+xs6S+xs6TD+xs6T)
anova(vehicles.out4)
```

```

## Analysis of Variance Table
##
## Response: log(ys)
##             Df  Sum Sq Mean Sq  F value    Pr(>F)
## xs1          1 1472.97 1472.97 6703.2425 < 2.2e-16 ***
## xs2          1     9.42    9.42   42.8735 6.522e-11 ***
## xs3D         1  281.73  281.73  1282.1089 < 2.2e-16 ***
## xs3L         1     0.76    0.76    3.4639  0.0627918 .
## xs3P         1     1.04    1.04    4.7158  0.0299406 *
## xs4I          1   69.26   69.26   315.2026 < 2.2e-16 ***
## xs4T          1     6.94    6.94   31.5771  2.037e-08 ***
## xs5M          1  231.77  231.77  1054.7316 < 2.2e-16 ***
## xs6F          1     0.72    0.72    3.2741  0.0704525 .
## xs6S          1     0.45    0.45    2.0408  0.1531975
## xs6TD         1     0.41    0.41    1.8760  0.1708559

```

```

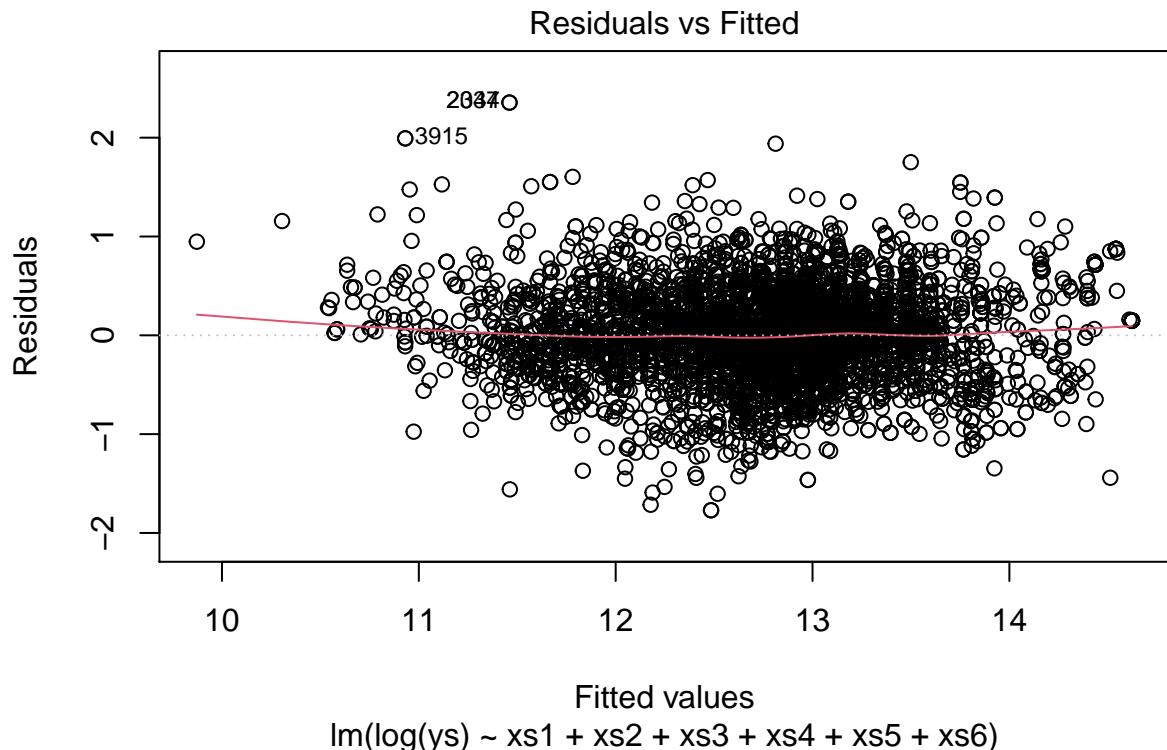
## xs6T      1   3.20    3.20   14.5504 0.0001384 ***
## Residuals 4324  950.15    0.22
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

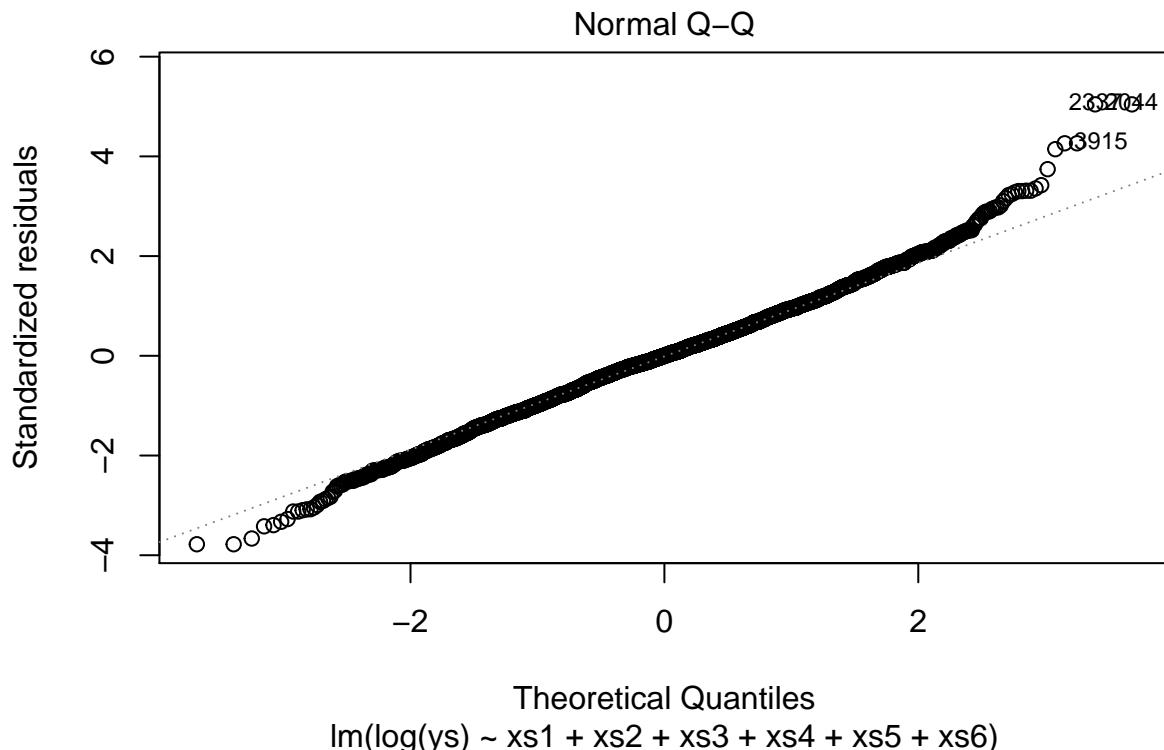
qf(1-0.05,1,4326)

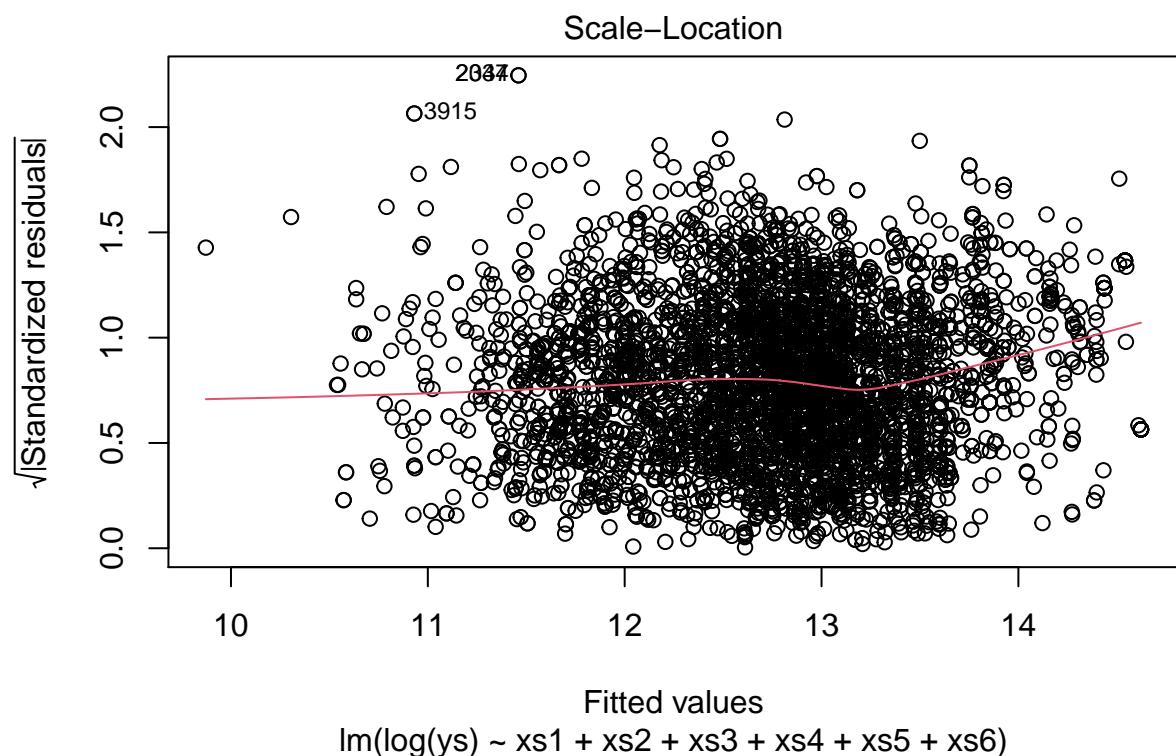
## [1] 3.843609

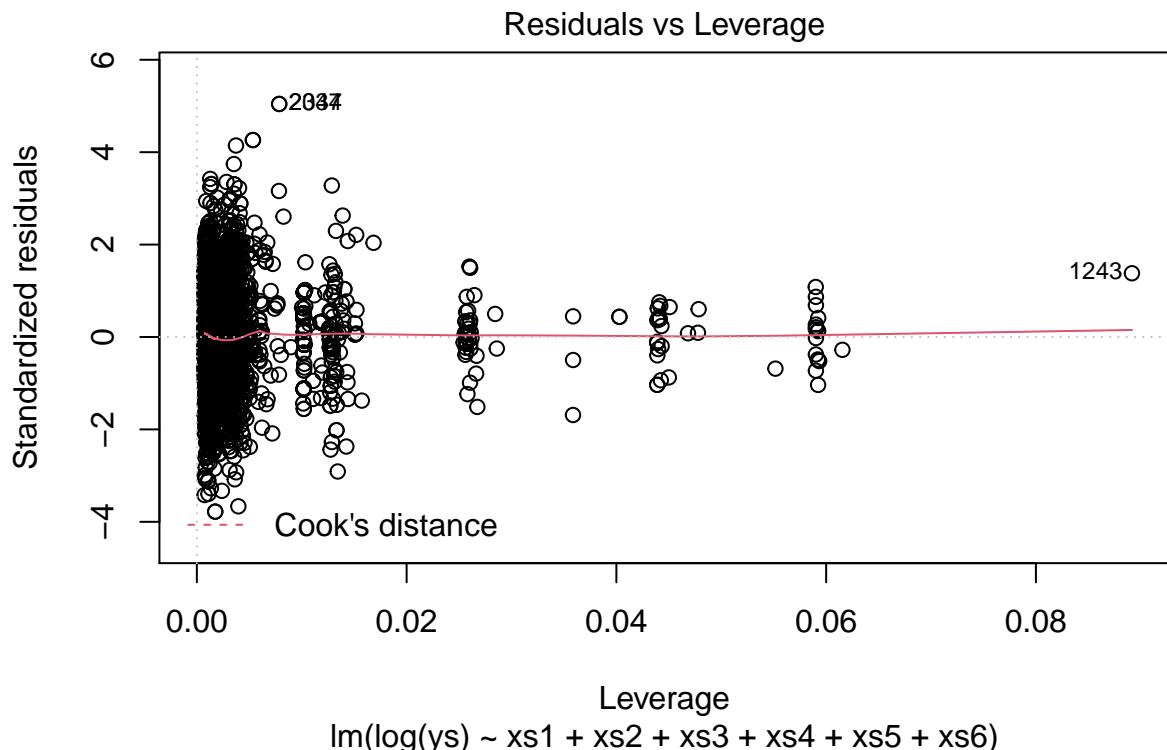
null3<-lm(log(ys)~1)
plot(vehicles.out3)

```

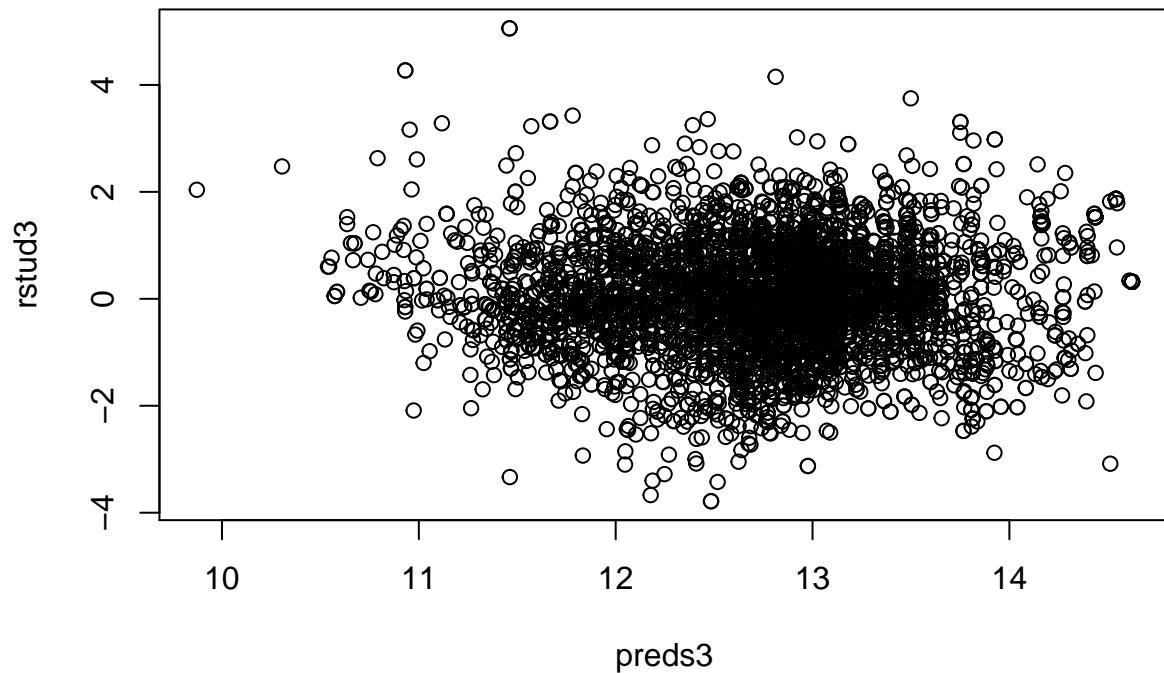




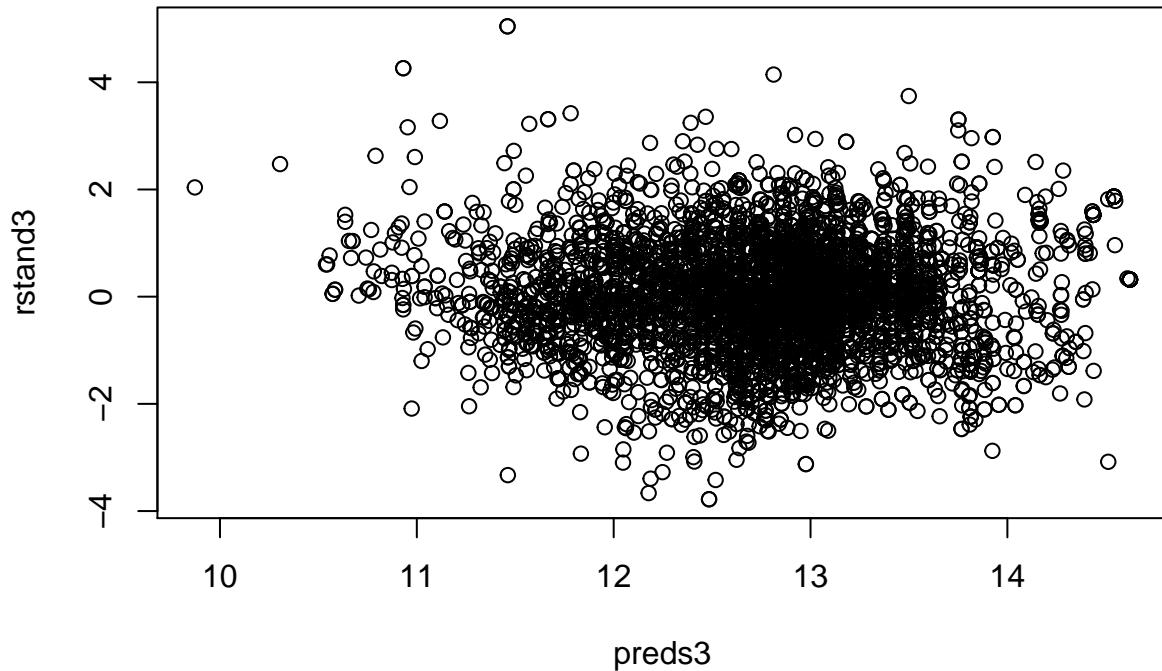




```
rstud3<-rstudent(vehicles.out3)
rstand3<-rstandard(vehicles.out3)
preds3<-predict(vehicles.out3)
res3<-resid(vehicles.out3)
plot(preds3,rstud3)
```



```
plot(preds3,rstand3)
```



```
vif(vehicles.out3)
```

```
##          xs1          xs2        xs3Diesel
##      1.561377    1.472699    27.759132
##          xs3LPG       xs3Petrol    xs4Individual
##      1.572102    27.791199    1.222926
##  xs4Trustmark Dealer    xs5Manual xs6Fourth & Above Owner
##      1.084972    1.068848    1.088371
##  xs6Second Owner    xs6Test Drive Car    xs6Third Owner
##      1.261702    1.024962    1.201961
```

```
residtable3<-cbind(res3, rstand3, rstud3)
max(res3)
```

```
## [1] 2.354991
```

```
step12=step(null3, scope=list(lower=null3, upper=vehicles.out4), direction="forward")
```

```
## Start: AIC=-1555.03
## log(ys) ~ 1
##
##          Df Sum of Sq    RSS     AIC
## + xs1     1   1472.97 1555.8 -4442.1
## + xs5M    1    508.17 2520.7 -2349.5
```

```

## + xs3D 1 450.59 2578.2 -2251.6
## + xs3P 1 406.68 2622.1 -2178.3
## + xs4I 1 240.39 2788.4 -1911.7
## + xs2 1 177.60 2851.2 -1815.1
## + xs6S 1 153.57 2875.2 -1778.7
## + xs6T 1 113.70 2915.1 -1719.0
## + xs6F 1 69.77 2959.1 -1654.1
## + xs4T 1 69.08 2959.7 -1653.1
## + xs3L 1 16.86 3012.0 -1577.2
## + xs6TD 1 16.16 3012.7 -1576.2
## <none> 3028.8 -1555.0
##
## Step: AIC=-4442.13
## log(ys) ~ xs1
##
##          Df Sum of Sq    RSS     AIC
## + xs5M 1 295.746 1260.1 -5354.5
## + xs3D 1 279.449 1276.4 -5298.8
## + xs3P 1 251.524 1304.3 -5204.9
## + xs4I 1 80.580 1475.3 -4670.8
## + xs4T 1 20.125 1535.7 -4496.6
## + xs2 1 9.421 1546.4 -4466.5
## + xs3L 1 4.580 1551.3 -4452.9
## + xs6T 1 1.747 1554.1 -4445.0
## + xs6S 1 1.561 1554.3 -4444.5
## + xs6F 1 1.484 1554.4 -4444.3
## <none> 1555.8 -4442.1
## + xs6TD 1 0.118 1555.7 -4440.5
##
## Step: AIC=-5354.49
## log(ys) ~ xs1 + xs5M
##
##          Df Sum of Sq    RSS     AIC
## + xs3D 1 261.866 998.24 -6362.8
## + xs3P 1 239.578 1020.52 -6267.1
## + xs4I 1 33.719 1226.38 -5470.1
## + xs2 1 17.652 1242.45 -5413.7
## + xs4T 1 15.917 1244.18 -5407.6
## + xs3L 1 3.384 1256.72 -5364.2
## + xs6T 1 1.993 1258.11 -5359.4
## + xs6F 1 1.140 1258.96 -5356.4
## + xs6S 1 0.596 1259.51 -5354.5
## <none> 1260.10 -5354.5
## + xs6TD 1 0.550 1259.55 -5354.4
##
## Step: AIC=-6362.83
## log(ys) ~ xs1 + xs5M + xs3D
##
##          Df Sum of Sq    RSS     AIC
## + xs4I 1 32.046 966.19 -6502.3
## + xs4T 1 18.775 979.46 -6443.2
## + xs6T 1 4.268 993.97 -6379.4
## + xs2 1 4.167 994.07 -6379.0
## + xs6S 1 2.130 996.11 -6370.1

```

```

## + xs6F 1 1.202 997.03 -6366.1
## + xs6TD 1 1.194 997.04 -6366.0
## + xs3P 1 0.963 997.27 -6365.0
## + xs3L 1 0.590 997.65 -6363.4
## <none> 998.24 -6362.8
##
## Step: AIC=-6502.34
## log(ys) ~ xs1 + xs5M + xs3D + xs4I
##
##          Df Sum of Sq    RSS     AIC
## + xs4T 1 8.9367 957.25 -6540.6
## + xs6T 1 2.1714 964.02 -6510.1
## + xs2 1 1.8172 964.37 -6508.5
## + xs3P 1 0.8109 965.38 -6504.0
## + xs6F 1 0.7560 965.43 -6503.7
## <none> 966.19 -6502.3
## + xs6S 1 0.4358 965.75 -6502.3
## + xs3L 1 0.4065 965.78 -6502.2
## + xs6TD 1 0.2812 965.91 -6501.6
##
## Step: AIC=-6540.65
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T
##
##          Df Sum of Sq    RSS     AIC
## + xs6T 1 2.25438 955.00 -6548.9
## + xs2 1 1.69381 955.56 -6546.3
## + xs6F 1 0.79835 956.45 -6542.3
## + xs3P 1 0.73284 956.52 -6542.0
## + xs6TD 1 0.44905 956.80 -6540.7
## <none> 957.25 -6540.6
## + xs3L 1 0.40158 956.85 -6540.5
## + xs6S 1 0.38756 956.87 -6540.4
##
## Step: AIC=-6548.87
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T
##
##          Df Sum of Sq    RSS     AIC
## + xs2 1 1.38683 953.61 -6553.2
## + xs6S 1 1.14528 953.85 -6552.1
## + xs6F 1 1.07552 953.92 -6551.8
## + xs3P 1 0.74797 954.25 -6550.3
## + xs6TD 1 0.48758 954.51 -6549.1
## <none> 955.00 -6548.9
## + xs3L 1 0.41641 954.58 -6548.8
##
## Step: AIC=-6553.17
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2
##
##          Df Sum of Sq    RSS     AIC
## + xs6F 1 1.01561 952.60 -6555.8
## + xs6S 1 0.95624 952.66 -6555.5
## + xs3P 1 0.63106 952.98 -6554.0
## <none> 953.61 -6553.2
## + xs6TD 1 0.43206 953.18 -6553.1

```

```

## + xs3L 1 0.35552 953.26 -6552.8
##
## Step: AIC=-6555.8
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F
##
##          Df Sum of Sq    RSS     AIC
## + xs6S  1   1.40988 951.19 -6560.2
## + xs3P  1   0.57811 952.02 -6556.4
## + xs6TD 1   0.45424 952.14 -6555.9
## <none>           952.60 -6555.8
## + xs3L  1   0.35410 952.24 -6555.4
##
## Step: AIC=-6560.22
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F +
##      xs6S
##
##          Df Sum of Sq    RSS     AIC
## + xs3P  1   0.51975 950.67 -6560.6
## + xs6TD 1   0.48123 950.70 -6560.4
## <none>           951.19 -6560.2
## + xs3L  1   0.33931 950.85 -6559.8
##
## Step: AIC=-6560.59
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F +
##      xs6S + xs3P
##
##          Df Sum of Sq    RSS     AIC
## + xs6TD 1   0.47425 950.19 -6560.8
## <none>           950.67 -6560.6
## + xs3L  1   0.03568 950.63 -6558.8
##
## Step: AIC=-6560.75
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F +
##      xs6S + xs3P + xs6TD
##
##          Df Sum of Sq    RSS     AIC
## <none>           950.19 -6560.8
## + xs3L  1   0.037783 950.15 -6558.9

```

```
summary(step12)
```

```

##
## Call:
## lm(formula = log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T +
##      xs2 + xs6F + xs6S + xs3P + xs6TD)
##
## Residuals:
##      Min      1Q      Median      3Q      Max
## -1.77029 -0.30109  0.00053  0.28768  2.35561
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) -2.139e+02  4.253e+00 -50.298 < 2e-16 ***
## xs1          1.129e-01  2.108e-03  53.531 < 2e-16 ***

```

```

## xs5M      -7.917e-01  2.427e-02 -32.620  < 2e-16 ***
## xs3D       6.023e-01  6.012e-02  10.018  < 2e-16 ***
## xs4I      -1.533e-01  1.813e-02  -8.455  < 2e-16 ***
## xs4T       3.134e-01  4.892e-02   6.406  1.65e-10 ***
## xs6T      -1.165e-01  3.056e-02  -3.810  0.000141 ***
## xs2        -3.853e-07  1.852e-07  -2.081  0.037519 *
## xs6F      -1.399e-01  5.483e-02  -2.551  0.010782 *
## xs6S      -4.595e-02  1.835e-02  -2.505  0.012297 *
## xs3P       9.191e-02  6.016e-02   1.528  0.126651
## xs6TD     1.694e-01  1.153e-01   1.469  0.141840
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4687 on 4325 degrees of freedom
## Multiple R-squared:  0.6863, Adjusted R-squared:  0.6855
## F-statistic: 860.1 on 11 and 4325 DF,  p-value: < 2.2e-16

# log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F + xs6S + xs3P + xs6TD

step22=step(vehicles.out4, direction="backward")

## Start:  AIC=-6558.93
## log(ys) ~ xs1 + xs2 + xs3D + xs3L + xs3P + xs4I + xs4T + xs5M +
##           xs6F + xs6S + xs6TD + xs6T
##
##          Df Sum of Sq    RSS    AIC
## - xs3L   1    0.04  950.19 -6560.8
## - xs3P   1    0.21  950.36 -6560.0
## <none>            950.15 -6558.9
## - xs6TD  1    0.48  950.63 -6558.8
## - xs2    1    0.95  951.10 -6556.6
## - xs6S   1    1.38  951.54 -6554.6
## - xs6F   1    1.44  951.59 -6554.4
## - xs6T   1    3.20  953.35 -6546.4
## - xs4T   1    9.03  959.18 -6519.9
## - xs3D   1   13.31  963.46 -6500.6
## - xs4I   1   15.66  965.82 -6490.0
## - xs5M   1   233.80 1183.96 -5606.8
## - xs1    1   628.01 1578.16 -4360.4
##
## Step:  AIC=-6560.75
## log(ys) ~ xs1 + xs2 + xs3D + xs3P + xs4I + xs4T + xs5M + xs6F +
##           xs6S + xs6TD + xs6T
##
##          Df Sum of Sq    RSS    AIC
## <none>            950.19 -6560.8
## - xs6TD  1    0.47  950.67 -6560.6
## - xs3P   1    0.51  950.70 -6560.4
## - xs2    1    0.95  951.14 -6558.4
## - xs6S   1    1.38  951.57 -6556.5
## - xs6F   1    1.43  951.62 -6556.2
## - xs6T   1    3.19  953.38 -6548.2
## - xs4T   1    9.02  959.21 -6521.8

```

```

## - xs4I   1    15.71  965.90 -6491.6
## - xs3D   1    22.05  972.24 -6463.3
## - xs5M   1    233.77 1183.96 -5608.8
## - xs1    1    629.56 1579.75 -4358.0

#log(ys) ~ xs1 + xs2 + xs3D + xs3P + xs4I + xs4T + xs5M + xs6F + xs6S + xs6TD + xs6T

step32=step(null3,scope=list(lower=null3, upper=vehicles.out4), direction="both")

## Start: AIC=-1555.03
## log(ys) ~ 1
##
##          Df Sum of Sq    RSS     AIC
## + xs1    1   1472.97 1555.8 -4442.1
## + xs5M   1    508.17 2520.7 -2349.5
## + xs3D   1    450.59 2578.2 -2251.6
## + xs3P   1    406.68 2622.1 -2178.3
## + xs4I   1    240.39 2788.4 -1911.7
## + xs2    1    177.60 2851.2 -1815.1
## + xs6S   1    153.57 2875.2 -1778.7
## + xs6T   1    113.70 2915.1 -1719.0
## + xs6F   1     69.77 2959.1 -1654.1
## + xs4T   1     69.08 2959.7 -1653.1
## + xs3L   1     16.86 3012.0 -1577.2
## + xs6TD  1     16.16 3012.7 -1576.2
## <none>           3028.8 -1555.0
##
## Step: AIC=-4442.13
## log(ys) ~ xs1
##
##          Df Sum of Sq    RSS     AIC
## + xs5M   1    295.75 1260.1 -5354.5
## + xs3D   1    279.45 1276.4 -5298.8
## + xs3P   1    251.52 1304.3 -5204.9
## + xs4I   1     80.58 1475.3 -4670.8
## + xs4T   1    20.13 1535.7 -4496.6
## + xs2    1      9.42 1546.4 -4466.5
## + xs3L   1      4.58 1551.3 -4452.9
## + xs6T   1      1.75 1554.1 -4445.0
## + xs6S   1      1.56 1554.3 -4444.5
## + xs6F   1      1.48 1554.4 -4444.3
## <none>           1555.8 -4442.1
## + xs6TD  1      0.12 1555.7 -4440.5
## - xs1    1    1472.97 3028.8 -1555.0
##
## Step: AIC=-5354.49
## log(ys) ~ xs1 + xs5M
##
##          Df Sum of Sq    RSS     AIC
## + xs3D   1    261.87  998.24 -6362.8
## + xs3P   1    239.58 1020.52 -6267.1
## + xs4I   1     33.72 1226.38 -5470.1
## + xs2    1     17.65 1242.45 -5413.7

```

```

## + xs4T 1 15.92 1244.18 -5407.6
## + xs3L 1 3.38 1256.72 -5364.2
## + xs6T 1 1.99 1258.11 -5359.4
## + xs6F 1 1.14 1258.96 -5356.4
## + xs6S 1 0.60 1259.51 -5354.5
## <none> 1260.10 -5354.5
## + xs6TD 1 0.55 1259.55 -5354.4
## - xs5M 1 295.75 1555.85 -4442.1
## - xs1 1 1260.55 2520.65 -2349.5
##
## Step: AIC=-6362.83
## log(ys) ~ xs1 + xs5M + xs3D
##
##          Df Sum of Sq    RSS    AIC
## + xs4I 1 32.05 966.19 -6502.3
## + xs4T 1 18.78 979.46 -6443.2
## + xs6T 1 4.27 993.97 -6379.4
## + xs2 1 4.17 994.07 -6379.0
## + xs6S 1 2.13 996.11 -6370.1
## + xs6F 1 1.20 997.03 -6366.1
## + xs6TD 1 1.19 997.04 -6366.0
## + xs3P 1 0.96 997.27 -6365.0
## + xs3L 1 0.59 997.65 -6363.4
## <none> 998.24 -6362.8
## - xs3D 1 261.87 1260.10 -5354.5
## - xs5M 1 278.16 1276.40 -5298.8
## - xs1 1 1115.97 2114.21 -3110.1
##
## Step: AIC=-6502.34
## log(ys) ~ xs1 + xs5M + xs3D + xs4I
##
##          Df Sum of Sq    RSS    AIC
## + xs4T 1 8.94 957.25 -6540.6
## + xs6T 1 2.17 964.02 -6510.1
## + xs2 1 1.82 964.37 -6508.5
## + xs3P 1 0.81 965.38 -6504.0
## + xs6F 1 0.76 965.43 -6503.7
## <none> 966.19 -6502.3
## + xs6S 1 0.44 965.75 -6502.3
## + xs3L 1 0.41 965.78 -6502.2
## + xs6TD 1 0.28 965.91 -6501.6
## - xs4I 1 32.05 998.24 -6362.8
## - xs5M 1 234.01 1200.20 -5563.7
## - xs3D 1 260.19 1226.38 -5470.1
## - xs1 1 1038.11 2004.30 -3339.7
##
## Step: AIC=-6540.65
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T
##
##          Df Sum of Sq    RSS    AIC
## + xs6T 1 2.25 955.00 -6548.9
## + xs2 1 1.69 955.56 -6546.3
## + xs6F 1 0.80 956.45 -6542.3
## + xs3P 1 0.73 956.52 -6542.0

```

```

## + xs6TD 1 0.45 956.80 -6540.7
## <none> 957.25 -6540.6
## + xs3L 1 0.40 956.85 -6540.5
## + xs6S 1 0.39 956.87 -6540.4
## - xs4T 1 8.94 966.19 -6502.3
## - xs4I 1 22.21 979.46 -6443.2
## - xs5M 1 235.75 1193.00 -5587.8
## - xs3D 1 262.38 1219.64 -5492.0
## - xs1 1 1022.55 1979.80 -3391.0
##
## Step: AIC=-6548.87
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T
##
##          Df Sum of Sq    RSS    AIC
## + xs2 1 1.39 953.61 -6553.2
## + xs6S 1 1.15 953.85 -6552.1
## + xs6F 1 1.08 953.92 -6551.8
## + xs3P 1 0.75 954.25 -6550.3
## + xs6TD 1 0.49 954.51 -6549.1
## <none> 955.00 -6548.9
## + xs3L 1 0.42 954.58 -6548.8
## - xs6T 1 2.25 957.25 -6540.6
## - xs4T 1 9.02 964.02 -6510.1
## - xs4I 1 20.51 975.51 -6458.7
## - xs5M 1 236.74 1191.74 -5590.4
## - xs3D 1 263.96 1218.96 -5492.5
## - xs1 1 946.92 1901.92 -3563.1
##
## Step: AIC=-6553.17
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2
##
##          Df Sum of Sq    RSS    AIC
## + xs6F 1 1.02 952.60 -6555.8
## + xs6S 1 0.96 952.66 -6555.5
## + xs3P 1 0.63 952.98 -6554.0
## <none> 953.61 -6553.2
## + xs6TD 1 0.43 953.18 -6553.1
## + xs3L 1 0.36 953.26 -6552.8
## - xs2 1 1.39 955.00 -6548.9
## - xs6T 1 1.95 955.56 -6546.3
## - xs4T 1 8.90 962.51 -6514.9
## - xs4I 1 19.15 972.76 -6468.9
## - xs5M 1 233.64 1187.25 -5604.8
## - xs3D 1 239.90 1193.51 -5582.0
## - xs1 1 744.61 1698.22 -4052.4
##
## Step: AIC=-6555.8
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F
##
##          Df Sum of Sq    RSS    AIC
## + xs6S 1 1.41 951.19 -6560.2
## + xs3P 1 0.58 952.02 -6556.4
## + xs6TD 1 0.45 952.14 -6555.9
## <none> 952.60 -6555.8

```

```

## + xs3L 1 0.35 952.24 -6555.4
## - xs6F 1 1.02 953.61 -6553.2
## - xs2 1 1.33 953.92 -6551.8
## - xs6T 1 2.20 954.80 -6547.8
## - xs4T 1 8.96 961.55 -6517.2
## - xs4I 1 18.69 971.29 -6473.5
## - xs5M 1 233.73 1186.33 -5606.1
## - xs3D 1 239.78 1192.37 -5584.1
## - xs1 1 715.87 1668.47 -4127.0
##
## Step: AIC=-6560.22
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F +
##           xs6S
##
##          Df Sum of Sq    RSS     AIC
## + xs3P 1 0.52 950.67 -6560.6
## + xs6TD 1 0.48 950.70 -6560.4
## <none>            951.19 -6560.2
## + xs3L 1 0.34 950.85 -6559.8
## - xs2 1 1.09 952.28 -6557.3
## - xs6S 1 1.41 952.60 -6555.8
## - xs6F 1 1.47 952.66 -6555.5
## - xs6T 1 3.13 954.32 -6548.0
## - xs4T 1 8.90 960.09 -6521.8
## - xs4I 1 16.47 967.65 -6487.8
## - xs5M 1 234.09 1185.28 -5608.0
## - xs3D 1 240.48 1191.66 -5584.7
## - xs1 1 634.62 1585.80 -4345.4
##
## Step: AIC=-6560.59
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F +
##           xs6S + xs3P
##
##          Df Sum of Sq    RSS     AIC
## + xs6TD 1 0.47 950.19 -6560.8
## <none>            950.67 -6560.6
## - xs3P 1 0.52 951.19 -6560.2
## + xs3L 1 0.04 950.63 -6558.8
## - xs2 1 1.00 951.67 -6558.0
## - xs6S 1 1.35 952.02 -6556.4
## - xs6F 1 1.40 952.06 -6556.2
## - xs6T 1 3.13 953.79 -6548.4
## - xs4T 1 8.84 959.51 -6522.4
## - xs4I 1 16.49 967.15 -6488.0
## - xs3D 1 22.08 972.74 -6463.0
## - xs5M 1 233.29 1183.96 -5610.8
## - xs1 1 635.09 1585.75 -4343.6
##
## Step: AIC=-6560.75
## log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F +
##           xs6S + xs3P + xs6TD
##
##          Df Sum of Sq    RSS     AIC
## <none>            950.19 -6560.8

```

```

## - xs6TD 1 0.47 950.67 -6560.6
## - xs3P 1 0.51 950.70 -6560.4
## + xs3L 1 0.04 950.15 -6558.9
## - xs2 1 0.95 951.14 -6558.4
## - xs6S 1 1.38 951.57 -6556.5
## - xs6F 1 1.43 951.62 -6556.2
## - xs6T 1 3.19 953.38 -6548.2
## - xs4T 1 9.02 959.21 -6521.8
## - xs4I 1 15.71 965.90 -6491.6
## - xs3D 1 22.05 972.24 -6463.3
## - xs5M 1 233.77 1183.96 -5608.8
## - xs1 1 629.56 1579.75 -4358.0

```

```
summary(step32)
```

```

##
## Call:
## lm(formula = log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T +
##     xs2 + xs6F + xs6S + xs3P + xs6TD)
##
## Residuals:
##      Min        1Q    Median        3Q       Max
## -1.77029 -0.30109  0.00053  0.28768  2.35561
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) -2.139e+02  4.253e+00 -50.298 < 2e-16 ***
## xs1          1.129e-01  2.108e-03  53.531 < 2e-16 ***
## xs5M         -7.917e-01  2.427e-02 -32.620 < 2e-16 ***
## xs3D          6.023e-01  6.012e-02  10.018 < 2e-16 ***
## xs4I         -1.533e-01  1.813e-02  -8.455 < 2e-16 ***
## xs4T          3.134e-01  4.892e-02   6.406 1.65e-10 ***
## xs6T         -1.165e-01  3.056e-02  -3.810 0.000141 *** 
## xs2          -3.853e-07  1.852e-07  -2.081 0.037519 *  
## xs6F         -1.399e-01  5.483e-02  -2.551 0.010782 *  
## xs6S         -4.595e-02  1.835e-02  -2.505 0.012297 *  
## xs3P          9.191e-02  6.016e-02   1.528 0.126651  
## xs6TD         1.694e-01  1.153e-01   1.469 0.141840  
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4687 on 4325 degrees of freedom
## Multiple R-squared:  0.6863, Adjusted R-squared:  0.6855 
## F-statistic: 860.1 on 11 and 4325 DF,  p-value: < 2.2e-16

```

```
anova(step32)
```

```

## Analysis of Variance Table
##
## Response: log(ys)
##             Df  Sum Sq Mean Sq  F value    Pr(>F)    
## xs1          1 1472.97 1472.97 6704.5262 < 2.2e-16 ***
## xs5M         1  295.75  295.75 1346.1502 < 2.2e-16 ***

```

```

## xs3D      1 261.87 261.87 1191.9382 < 2.2e-16 ***
## xs4I      1 32.05 32.05 145.8663 < 2.2e-16 ***
## xs4T      1 8.94 8.94 40.6775 1.984e-10 ***
## xs6T      1 2.25 2.25 10.2613 0.001368 **
## xs2       1 1.39 1.39 6.3125 0.012025 *
## xs6F      1 1.02 1.02 4.6228 0.031605 *
## xs6S      1 1.41 1.41 6.4174 0.011336 *
## xs3P      1 0.52 0.52 2.3657 0.124098
## xs6TD     1 0.47 0.47 2.1587 0.141840
## Residuals 4325 950.19 0.22
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```
#log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F + xs6S + xs3P + xs6TD)
```

#So since with the results from the Forward elimination, backward elimination, and stepwise elimination
#So our new model is log(ys) ~ xs1 + xs5M + xs3D + xs4I + xs4T + xs6T + xs2 + xs6F + xs6S + xs3P + xs6TD

```
library(leaps)
```

```
X3=Xs[, -c(3,4,5)]
leaps.out2=leaps(x=X3,y=log(ys),method="adjr2")
leaps.out2
```

```

## $which
##      1   2   3   4   5   6   7   8   9
## 1  TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## 1 FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE
## 1 FALSE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## 1 FALSE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## 1 FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
## 1 FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
## 2  TRUE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE
## 2 TRUE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## 2 TRUE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## 2 TRUE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## 2 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
## 2 TRUE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE
## 2 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## 2 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## 2 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## 2 FALSE FALSE  TRUE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE
## 2 FALSE FALSE FALSE FALSE  TRUE FALSE FALSE TRUE FALSE FALSE
## 3  TRUE FALSE  TRUE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE
## 3 TRUE  TRUE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE
## 3 TRUE FALSE FALSE  TRUE  TRUE FALSE FALSE FALSE FALSE FALSE
## 3 TRUE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE TRUE
## 3 TRUE FALSE FALSE FALSE  TRUE  TRUE FALSE FALSE FALSE FALSE
## 3 TRUE FALSE FALSE FALSE  TRUE FALSE  TRUE FALSE FALSE FALSE
## 3 TRUE FALSE FALSE FALSE  TRUE FALSE FALSE  TRUE FALSE FALSE

```



```

## $label
## [1] "(Intercept)" "1"          "2"          "3"          "4"
## [6] "5"           "6"          "7"          "8"          "9"
##
## $size
## [1] 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4
## [26] 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 7
## [51] 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9
## [76] 9 9 9 10
##
## $adjr2
## [1] 0.486199643 0.167585424 0.079153804 0.058420237 0.050482433 0.037317731
## [7] 0.022808858 0.022581752 0.005105038 0.583770229 0.512697945 0.492728750
## [13] 0.489192985 0.486658151 0.486596727 0.486571174 0.486119999 0.207380482
## [19] 0.206479837 0.594814674 0.589506130 0.588933054 0.584332786 0.584050664
## [25] 0.583871018 0.583855860 0.518399952 0.514287804 0.512823896 0.602594042
## [31] 0.596950392 0.595269280 0.594951372 0.594934142 0.594730032 0.594722055
## [37] 0.590559736 0.589852469 0.589826626 0.604936229 0.603035164 0.602779128
## [43] 0.602543630 0.602527675 0.597099203 0.597081973 0.596883933 0.596859891
## [49] 0.596255024 0.605402420 0.605135833 0.604921653 0.604864738 0.603300852
## [55] 0.603085352 0.602991344 0.602746274 0.602731796 0.602477694 0.605686613
## [61] 0.605442152 0.605397160 0.605125668 0.605095514 0.604850650 0.603456628
## [67] 0.603261377 0.603043774 0.602699881 0.605830775 0.605687464 0.605439685
## [73] 0.605086473 0.603421056 0.597904894 0.597158466 0.520415310 0.308404154
## [79] 0.605836552

max(leaps.out2$adjr2)

## [1] 0.6058366

which(leaps.out2$adjr2>0.605)

## [1] 50 51 60 61 62 63 64 70 71 72 73 79

#60 log(y)~x1+x2+x4I+x4T+x5M+x6F+x6S+x6

vehicles.out5<-lm(log(y)~ x1 + x2 + x4 + x5 + x6)
summary(vehicles.out5)

##
## Call:
## lm(formula = log(y) ~ x1 + x2 + x4 + x5 + x6)
##
## Residuals:
##      Min      1Q      Median      3Q      Max 
## -1.89919 -0.34965  0.01162  0.33879  2.39457 
##
## Coefficients:
## (Intercept)            Estimate Std. Error t value Pr(>|t|)    
## (Intercept)            -2.491e+02  4.616e+00 -53.953 < 2e-16 ***
## x1                      1.304e-01  2.289e-03  56.992 < 2e-16 ***

```

```

## x2                  1.876e-06  1.926e-07  9.742 < 2e-16 ***
## x4Individual       -1.937e-01  2.031e-02 -9.534 < 2e-16 ***
## x4Trustmark Dealer 2.819e-01  5.494e-02  5.132 2.99e-07 ***
## x5Manual            -8.420e-01  2.714e-02 -31.023 < 2e-16 ***
## x6Fourth & Above Owner -1.413e-01  6.155e-02 -2.295  0.0218 *
## x6Second Owner      -3.373e-02  2.059e-02 -1.638  0.1014
## x6Test Drive Car    1.288e-01  1.295e-01  0.994  0.3203
## x6Third Owner       -1.039e-01  3.433e-02 -3.025  0.0025 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5266 on 4331 degrees of freedom
## Multiple R-squared:  0.6071, Adjusted R-squared:  0.6063
## F-statistic: 743.5 on 9 and 4331 DF,  p-value: < 2.2e-16

```

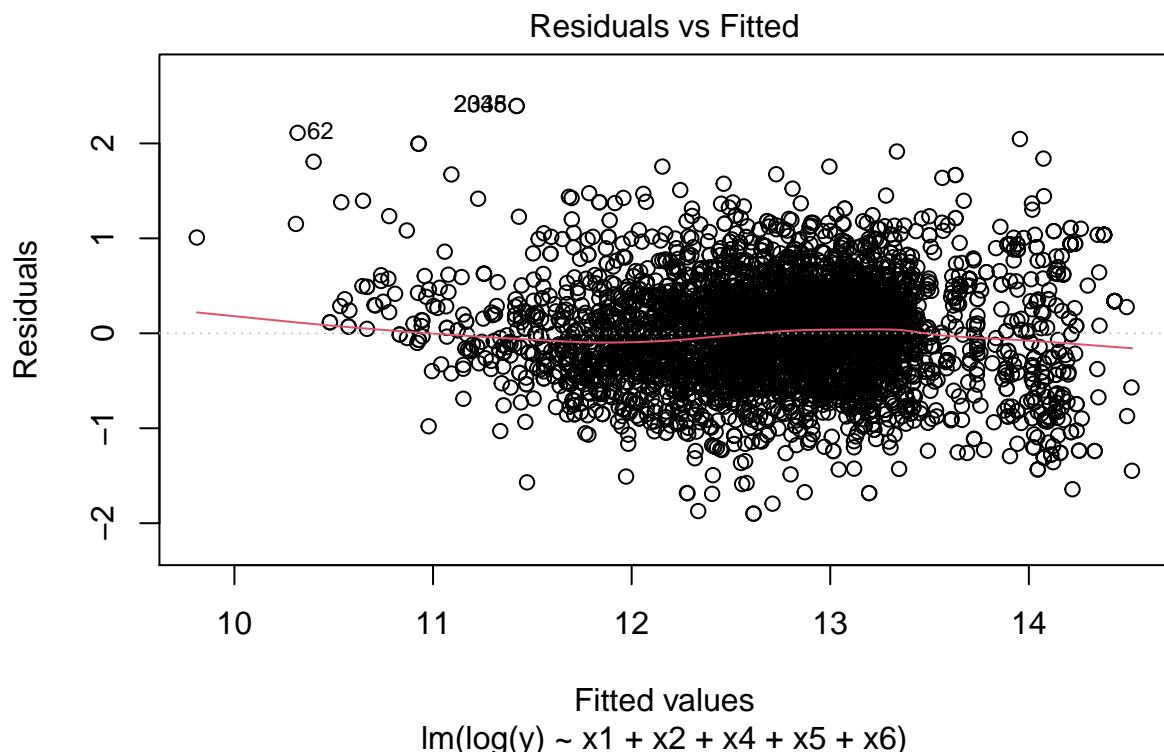
```
anova(vehicles.out5)
```

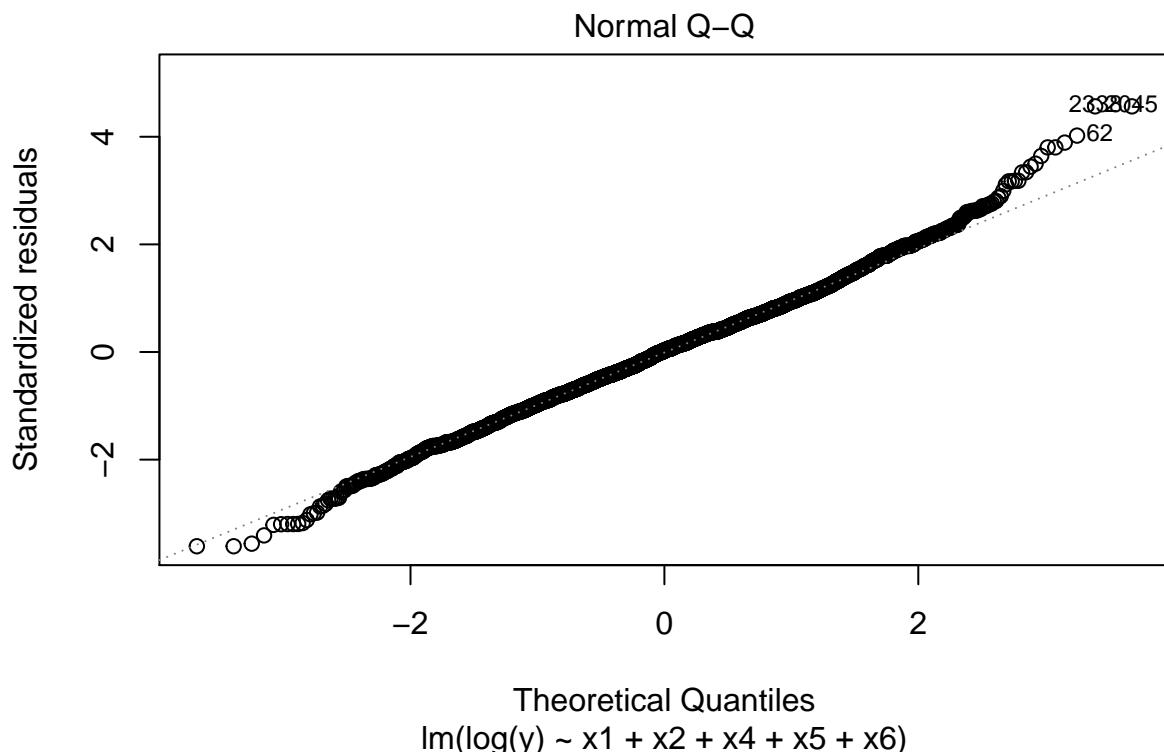
```

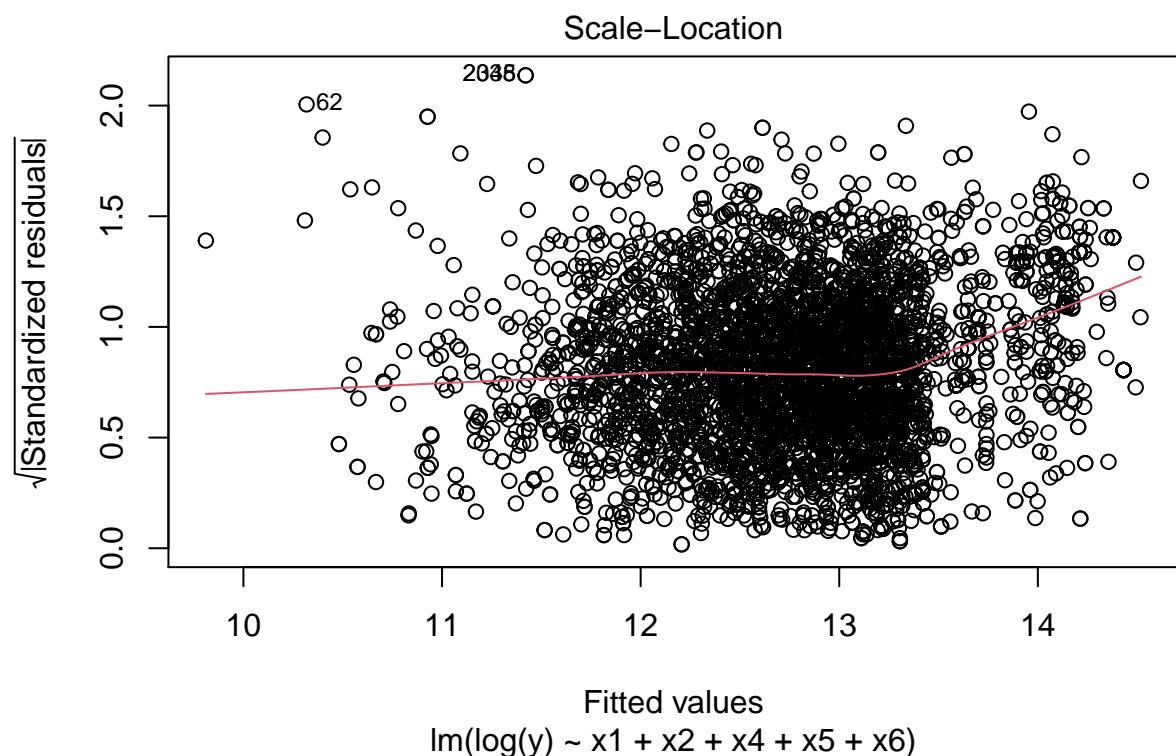
## Analysis of Variance Table
##
## Response: log(y)
##              Df  Sum Sq Mean Sq   F value   Pr(>F)
## x1           1 1479.86 1479.86 5336.1186 < 2.2e-16 ***
## x2           1     8.99    8.99   32.4179 1.326e-08 ***
## x4           2   97.82   48.91   176.3538 < 2.2e-16 ***
## x5           1  265.27  265.27   956.5191 < 2.2e-16 ***
## x6           4    3.80    0.95    3.4245  0.008391 **
## Residuals  4331 1201.11    0.28
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

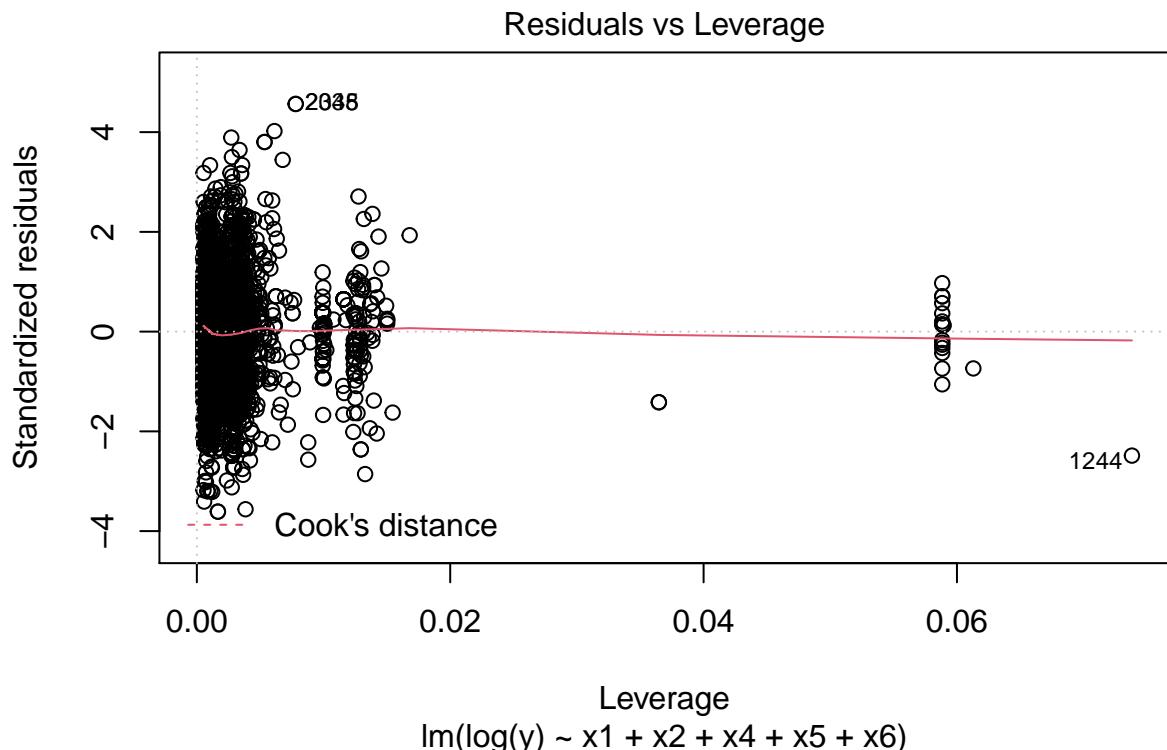
```

```
plot(vehicles.out5)
```









```
qf(1-0.05, 1, 22)
```

```
## [1] 4.30095
```

```
qf(1-0.05, 1, 4330)
```

```
## [1] 3.843607
```

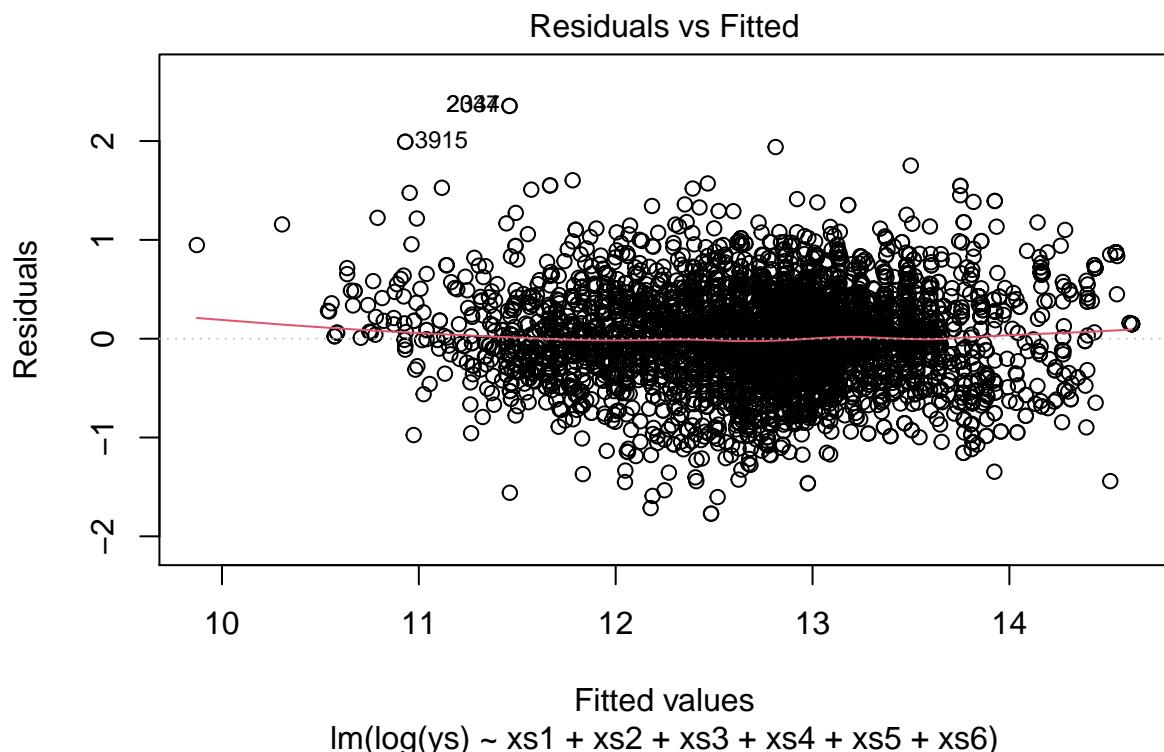
```
qf(1-0.05, 2, 4330)
```

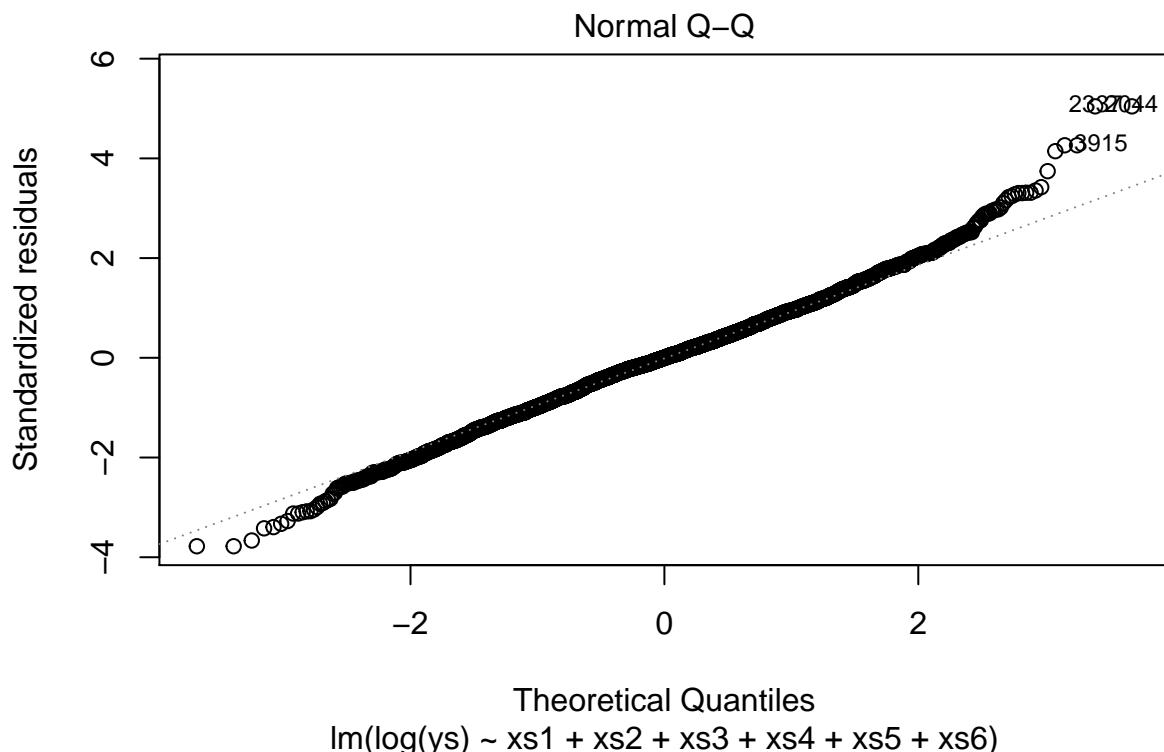
```
## [1] 2.997806
```

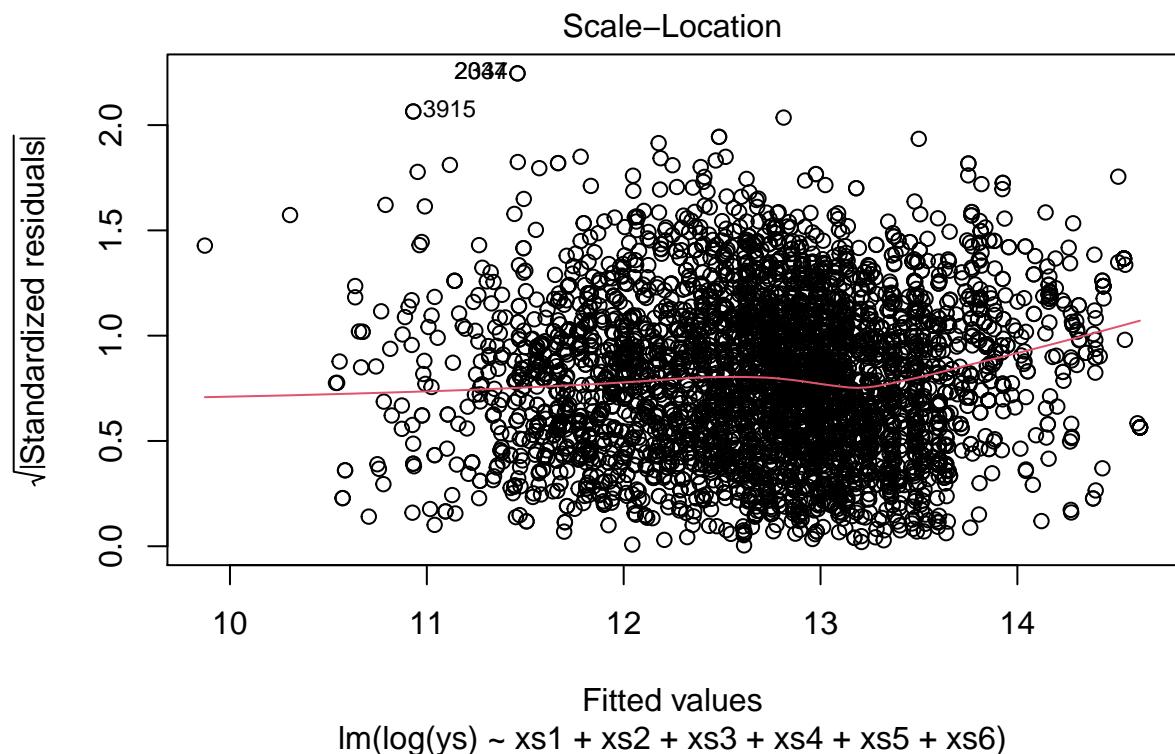
```
qf(1-0.05, 4, 4330)
```

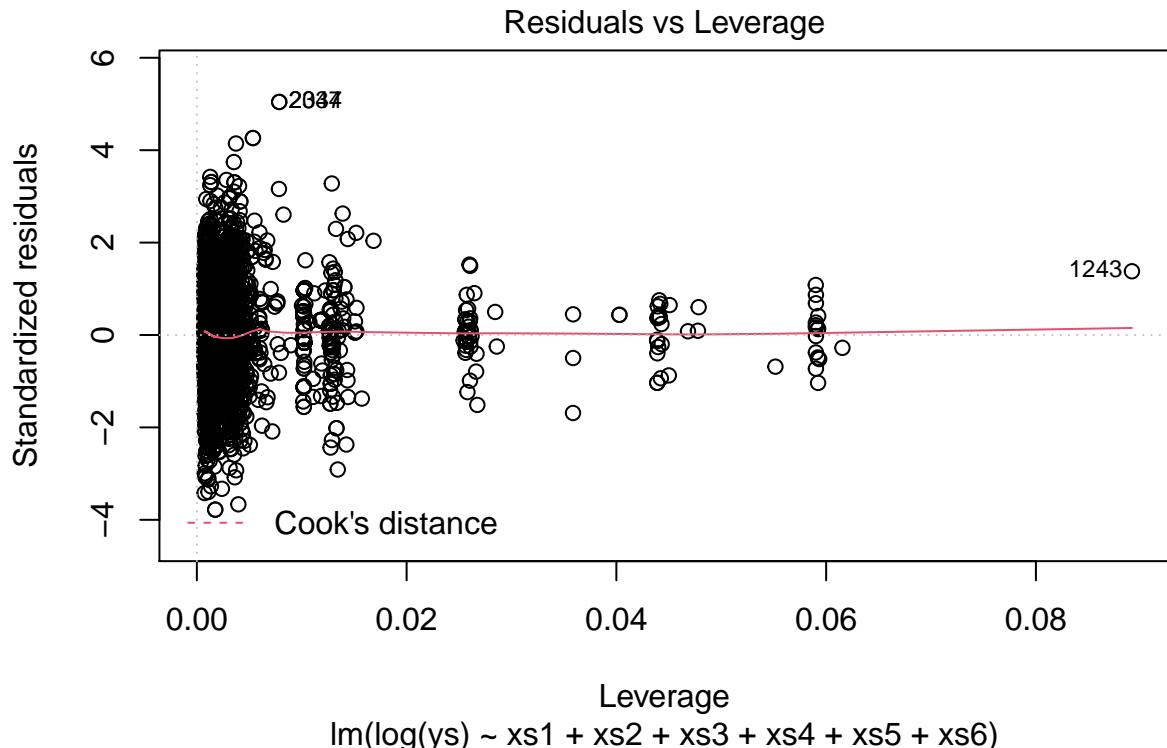
```
## [1] 2.373984
```

```
plot(vehicles.out3)
```









```
anova(vehicles.out3)

## Analysis of Variance Table
##
## Response: log(ys)
##             Df  Sum Sq Mean Sq   F value   Pr(>F)
## xs1          1 1472.97 1472.97 6703.2425 < 2.2e-16 ***
## xs2          1     9.42    9.42   42.8735 6.522e-11 ***
## xs3          3   283.53   94.51   430.0962 < 2.2e-16 ***
## xs4          2    76.20   38.10   173.3898 < 2.2e-16 ***
## xs5          1   231.77   231.77  1054.7316 < 2.2e-16 ***
## xs6          4     4.78    1.19     5.4353 0.0002308 ***
## Residuals  4324   950.15    0.22
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

qf(1-0.05, 1, 22)
```

```
## [1] 4.30095
```

```
qf(1-0.05, 1, 4330)
```

```
## [1] 3.843607
```

```

qf(1-0.05, 2, 4330)

## [1] 2.997806

qf(1-0.05, 4, 4330)

## [1] 2.373984

vehicles.out6<-lm(log(ys) ~ xs1 + xs2 + xs4I + xs4T + xs5M + xs6F + xs6S + xs6TD + xs6T)
summary(vehicles.out6)

##
## Call:
## lm(formula = log(ys) ~ xs1 + xs2 + xs4I + xs4T + xs5M + xs6F +
##     xs6S + xs6TD + xs6T)
##
## Residuals:
##      Min        1Q    Median        3Q       Max
## -1.89968 -0.34944  0.01127  0.33855  2.40385
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) -2.490e+02  4.601e+00 -54.110 < 2e-16 ***
## xs1          1.304e-01  2.282e-03  57.157 < 2e-16 ***
## xs2          1.884e-06  1.920e-07   9.813 < 2e-16 ***
## xs4I         -1.901e-01  2.026e-02  -9.386 < 2e-16 ***
## xs4T         2.872e-01  5.475e-02   5.246 1.63e-07 ***
## xs5M         -8.313e-01  2.713e-02 -30.642 < 2e-16 ***
## xs6F         -1.420e-01  6.133e-02  -2.315  0.02068 *
## xs6S         -3.332e-02  2.052e-02  -1.624  0.10447
## xs6TD        1.331e-01  1.291e-01   1.031  0.30249
## xs6T         -1.040e-01  3.421e-02  -3.039  0.00239 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5247 on 4327 degrees of freedom
## Multiple R-squared:  0.6067, Adjusted R-squared:  0.6058
## F-statistic: 741.5 on 9 and 4327 DF,  p-value: < 2.2e-16

anova(vehicles.out6)

## Analysis of Variance Table
##
## Response: log(ys)
##             Df Sum Sq Mean Sq  F value    Pr(>F)
## xs1          1 1472.97 1472.97 5349.7489 < 2.2e-16 ***
## xs2          1    9.42    9.42   34.2166 5.294e-09 ***
## xs4I         1   88.76   88.76  322.3652 < 2.2e-16 ***
## xs4T         1    5.60    5.60   20.3308 6.687e-06 ***
## xs5M         1  256.88  256.88  932.9585 < 2.2e-16 ***
## xs6F         1    0.88    0.88   3.1950  0.073934 .

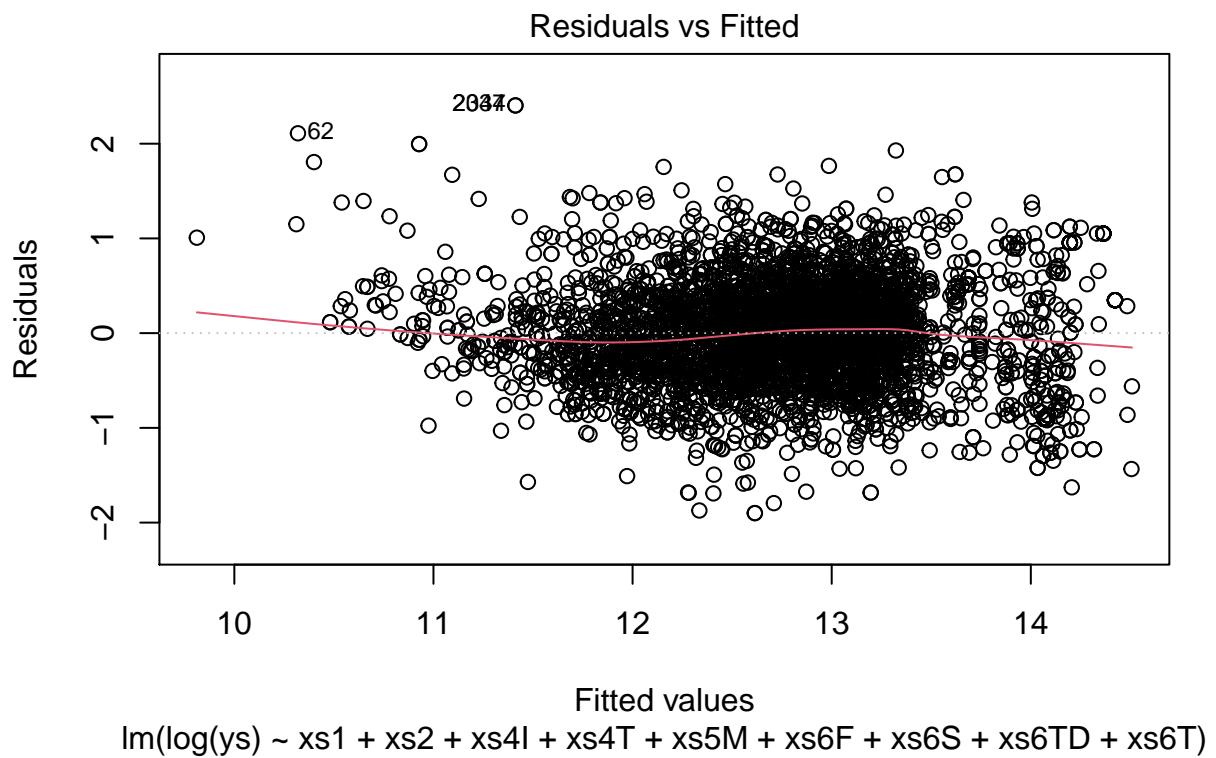
```

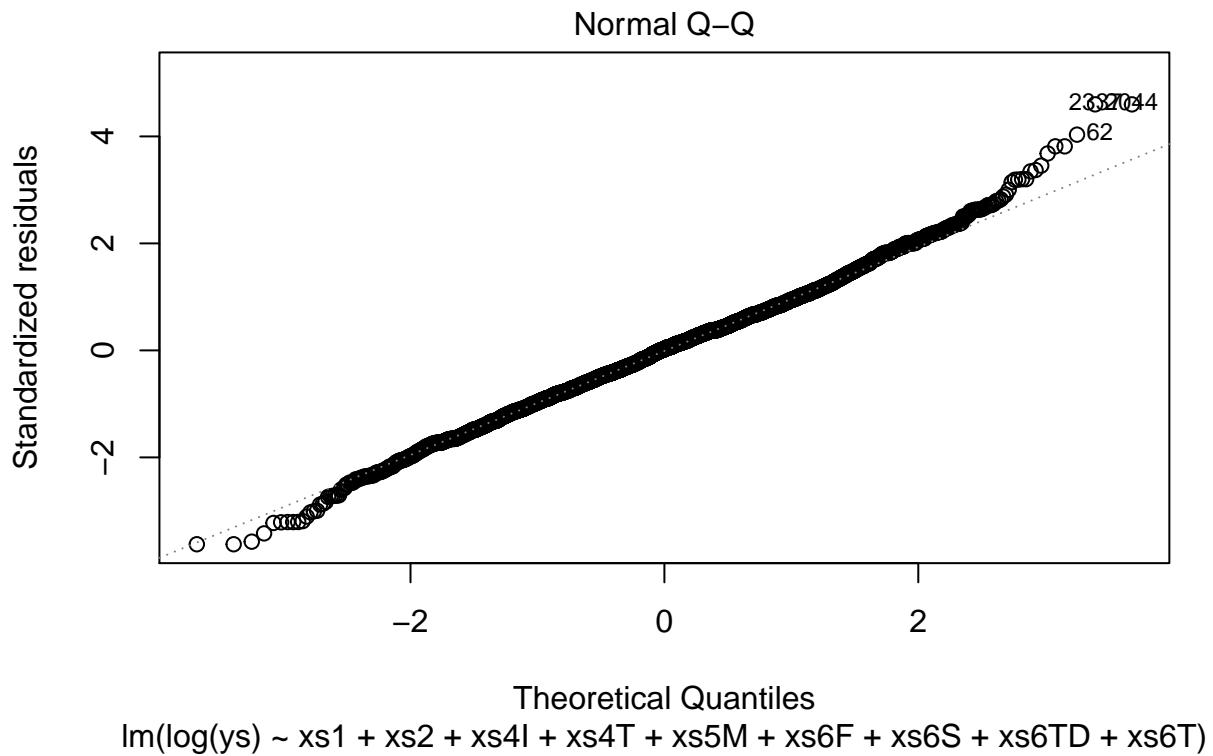
```

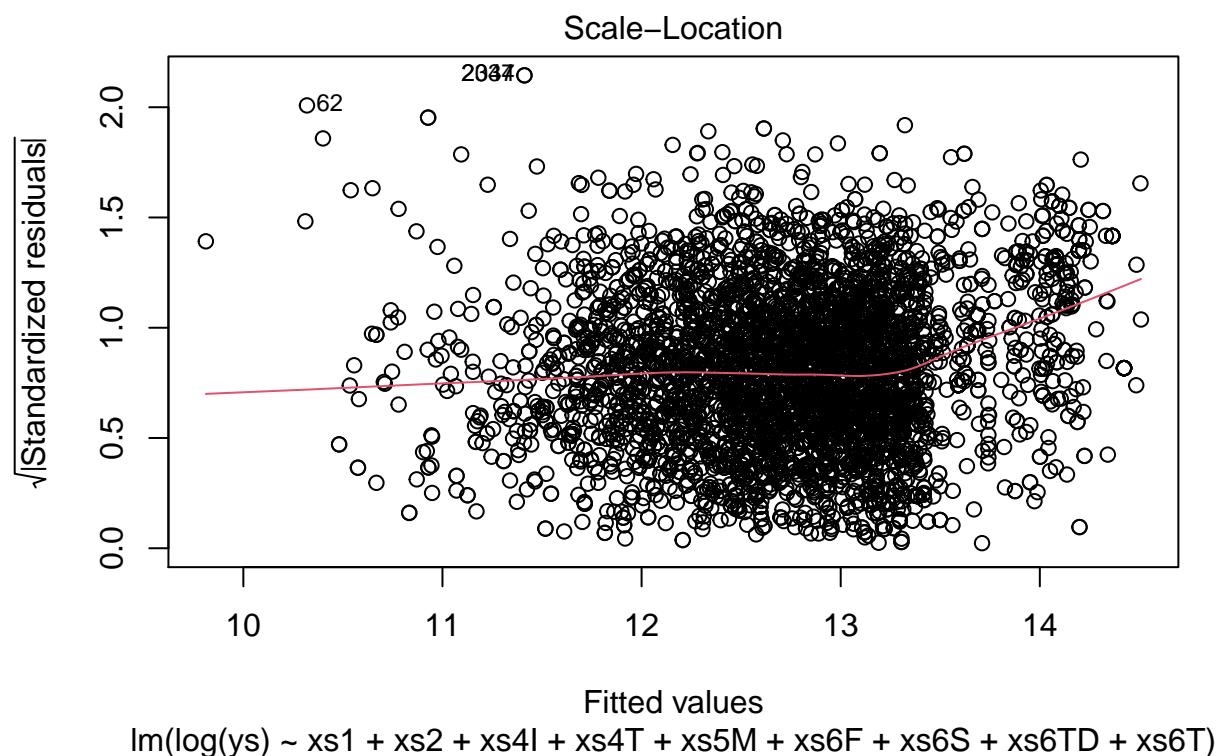
## xs6S      1    0.15    0.15    0.5590  0.454721
## xs6TD     1    0.25    0.25    0.9026  0.342135
## xs6T      1    2.54    2.54    9.2360  0.002387 ** 
## Residuals 4327 1191.37   0.28
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

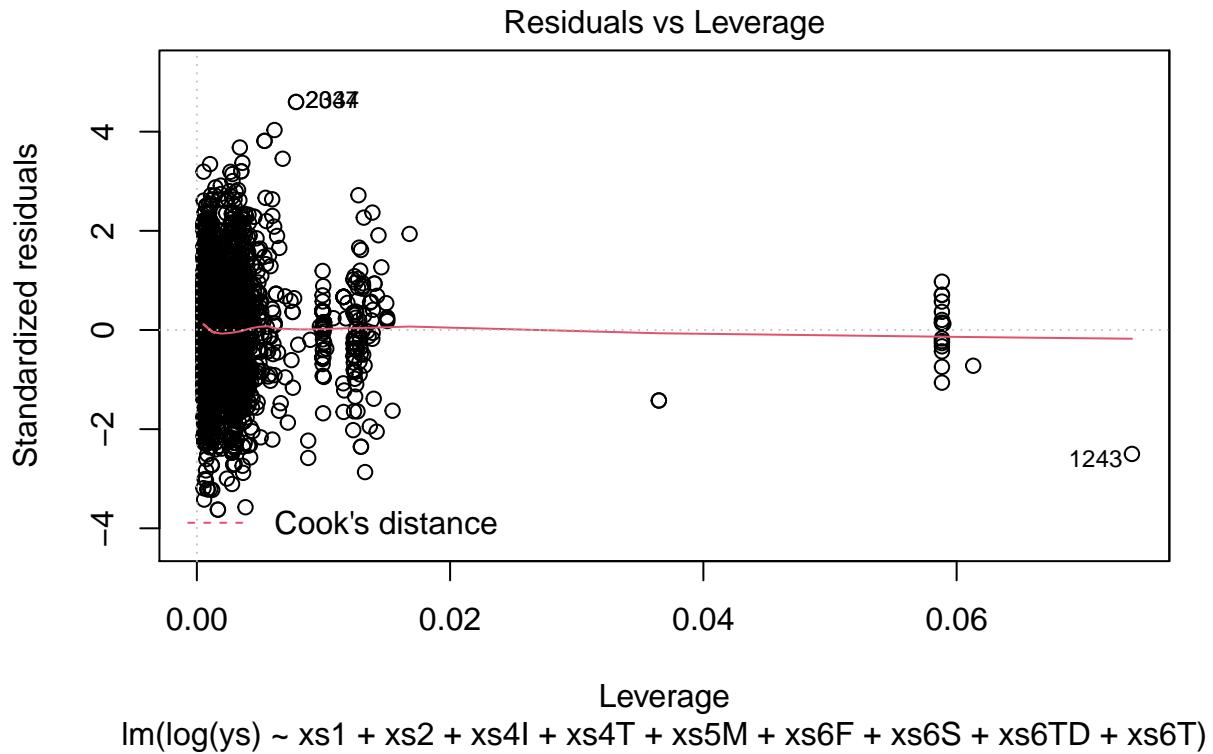
```

```
plot(vehicles.out6)
```









```
preds6<-predict(vehicles.out6)
```

Final Project Conclusion

After the analysis we have come to the conclusion of which factors have a significant effect on our response variable (selling price) of the vehicles • For physical features o The type of transmission has a significant effect on the selling price o Due to the fact that several It seems apparent that the type of fuel the car uses is not relevant when it comes to determining the selling price • For history o From our analysis the year the vehicle was created is significant as well. And from the plot is seems that the newer the vehicle is the higher the price is o The Kilometers the vehicle has driven is relevant as well o The number of past owners for the vehicle's is significant to our predictor • For sale o Finally, the selling price for the vehicle may be influenced by whether or not it was sold from an Individual, a dealer, or a Trustmark Dealer