

# Final Project

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## Data Import

```
cancer_raw =  
  read_csv("./data/Cancer_Registry.csv") %>%  
  janitor::clean_names() %>%  
  dplyr::select(target_death_rate, geography, everything()) %>%  
  separate(geography, into = c("county", "state"), sep = ",")
```

## Data variable dictionary:

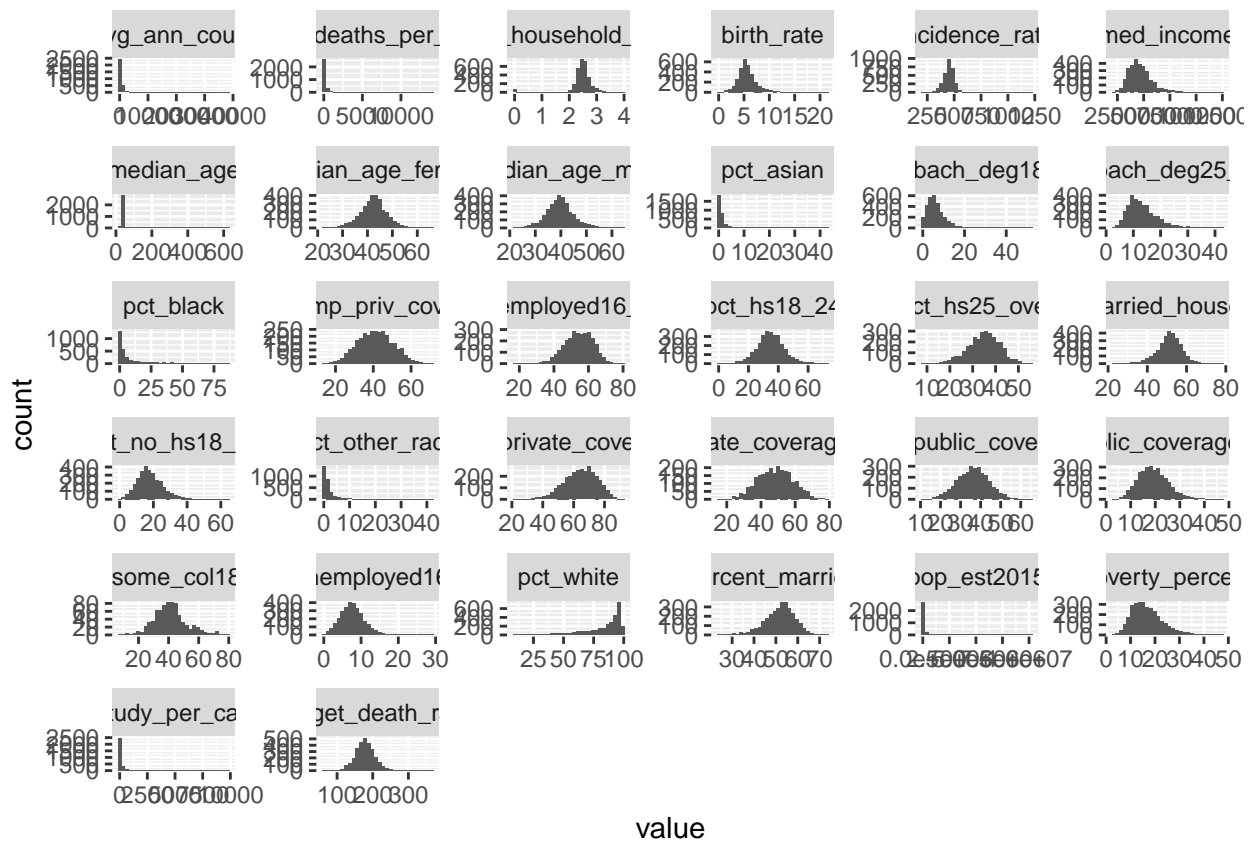
- **target\_death\_rate:** mean per capita (100,000) cancer mortalities (a)
- **avg\_ann\_count:** mean number of reported cases of cancer diagnosed annually (a)
- **avg\_deaths\_per\_year:** mean number of reported mortalities due to cancer (a)
- **incidence\_rate:** mean per capita (100,000) cancer diagnoses (a)
- **med\_income:** median income per county (b)
- **pop\_est2015:** population of county (b)
- **poverty\_percent:** percent of population in poverty (b)
- **study\_per\_cap** per capita number of cancer-related clinical trials per county (a)
- **binned\_inc:** median income per capita binned by decile (b)
- **median\_age:** median age of county residents (b)
- **median\_age\_male:** median age of male county residents (b)
- **median\_age\_female:** median age of female county residents (b)
- **geography:** county name (b)
- **avg\_household\_size:** mean household size of county (b)
- **percent\_married:** percent of county residents who are married (b)
- **pct\_no\_hs18\_24:** percent of county residents ages 18-24 highest education attained: less than high school (b)
- **pct\_hs18\_24:** percent of county residents ages 18-24 highest education attained: high school diploma (b)
- **pct\_some\_col18\_24:** percent of county residents ages 18-24 highest education attained: some college (b)
- **pct\_bach\_deg18\_24:** percent of county residents ages 18-24 highest education attained: bachelor's degree (b)
- **pct\_hs25\_over:** percent of county residents ages 25 and over highest education attained: high school diploma (b)
- **pct\_bach\_deg25\_over:** percent of county residents ages 25 and over highest education attained: bachelor's degree (b)
- **pct\_employed16\_over:** percent of county residents ages 16 and over employed (b)
- **pct\_unemployed16\_over:** percent of county residents ages 16 and over unemployed (b)
- **pct\_private\_coverage:** percent of county residents with private health coverage (b)
- **pct\_private\_coverage\_alone:** percent of county residents with private health coverage alone (no public assistance) (b)

- **pct\_emp\_priv\_coverage:** percent of county residents with employee-provided private health coverage (b)
- **pct\_public\_coverage:** percent of county residents with government-provided health coverage (b)
- **pct\_public\_coverage\_alone:** percent of county residents with government-provided health coverage alone (b)
- **pct\_white:** percent of county residents who identify as White (b)
- **pct\_black:** percent of county residents who identify as Black (b)
- **pct\_asian:** percent of county residents who identify as Asian (b)
- **pct\_other\_race:** percent of county residents who identify in a category which is not White, Black, or Asian (b)
- **pct\_married\_households:** percent of married households (b)
- **birth\_rate:** number of live births relative to number of women in county (b)

Look at the distribution of all variables:

```
cancer_raw %>%
  keep(is.numeric) %>%
  gather() %>%
  ggplot(aes(value)) +
    facet_wrap(~ key, scales = "free") +
    geom_histogram(bins = 30)
```

```
## Warning: Removed 3046 rows containing non-finite values (stat_bin).
```



Choose variables:

```
cancer_county =
  cancer_raw %>%
  janitor::clean_names() %>%
  dplyr::select(target_death_rate, incidence_rate, med_income, poverty_percent, median_age:median_age_fer)
  dplyr::select(-pct_hs25_over, -pct_bach_deg25_over, -pct_employed16_over, -percent_married) %>%
  mutate(pct_upto_hs18_24 = pct_no_hs18_24 + pct_hs18_24,
         pct_above_hs18_24 = 100 - pct_upto_hs18_24,
         pct_with_coverage = pct_private_coverage + pct_public_coverage_alone,
         income_cat = ifelse(med_income < 35000, 0, 1)) %>%
  dplyr::select(-(pct_no_hs18_24:pct_bach_deg18_24), -pct_above_hs18_24, -(pct_private_coverage:pct_public_coverage_alone))
  na.omit
```

Check correlation and distribution:

```
cor(cancer_county) %>%
  knitr::kable()
```

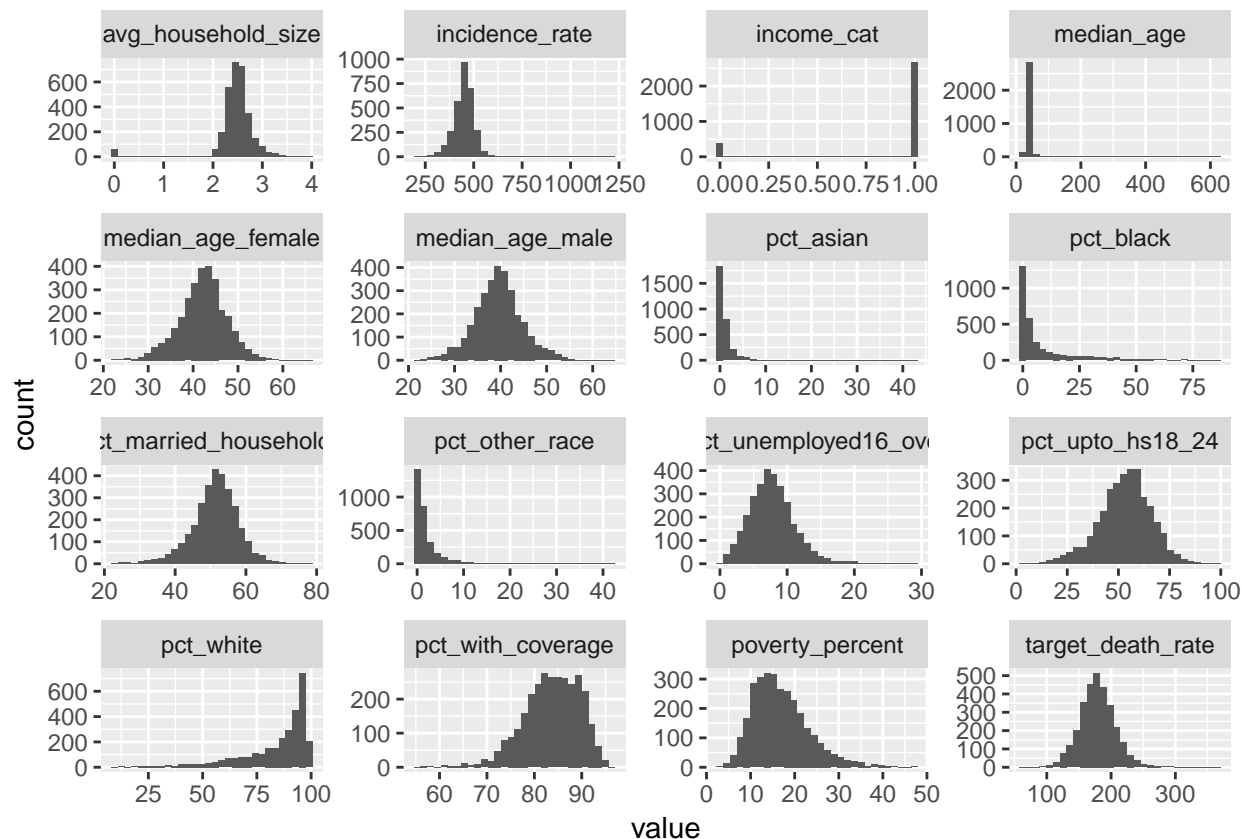
	target_death_rate	incidence_rate	poverty_percent	median_age	median_age_male	median_age_female
target_death_rate	1.0000000	0.4494317	0.4293890	0.0043751	-0.0219294	-0.0219294
incidence_rate	0.4494317	1.0000000	0.0090463	0.0180892	-0.0147332	-0.0147332
poverty_percent	0.4293890	0.0090463	1.0000000	-0.0292800	-0.2140010	-0.2140010
median_age	0.0043751	0.0180892	-0.0292800	1.0000000	0.1291195	0.1291195

	target_death_rate	incidence_rate	poverty_percent	median_age	median_age_male	median_age_female
median_age_male	-0.0219294	-0.0147332	-0.2140010	0.1291195	1.0000000	
median_age_female	0.0120484	-0.0091056	-0.1481635	0.1246784	0.9336961	
avg_household_size	-0.0369053	-0.1184000	0.0743076	-0.0319441	-0.3431887	
pct_unemployed16_over	0.3784124	0.0999795	0.6551481	0.0185904	-0.1427375	
pct_white	-0.1774000	-0.0145098	-0.5094328	0.0350094	0.3980444	
pct_black	0.2570236	0.1134890	0.5115297	-0.0171732	-0.2427481	
pct_asian	-0.1863311	-0.0081234	-0.1572887	-0.0384239	-0.2383224	
pct_other_race	-0.1898936	-0.2087483	0.0470959	-0.0302765	-0.2666554	
pct_married_households	-0.2933253	-0.1521763	-0.6049528	0.0145036	0.2222777	
pct_upto_hs18_24	0.2443042	-0.0929669	0.2517431	0.0401926	0.2371826	
pct_with_coverage	-0.2292798	0.2302489	-0.6516658	0.0049621	0.1497702	
income_cat	-0.3030288	0.0110839	-0.6344122	0.0103377	0.0266055	

```

cancer_county %>%
  keep(is.numeric) %>%
  gather() %>%
  ggplot(aes(value)) +
    facet_wrap(~ key, scales = "free") +
    geom_histogram(bins = 30)

```



The descriptive statistics:

```

state_summary = function(x){
mean = mean(x)
max = max(x)
min = min(x)
median = median(x)
var = var(x)
sd = sd(x)
sample_size=length(x)-sum(is.na(x))
tibble(mean, max, min, median, var, sd, sample_size)
}

df_target_death_rate <-state_summary(cancer_county$target_death_rate)
df_incidence_rate <-state_summary(cancer_county$incidence_rate)
df_poverty_percent<-state_summary(cancer_county$poverty_percent)
df_median_age<-state_summary(cancer_county$median_age)
df_median_agemale<-state_summary(cancer_county$median_age_male)
df_median_agefemale<-state_summary(cancer_county$median_age_female)
df_avg_household_size<-state_summary(cancer_county$avg_household_size)
df_pct_unemployed16_over<-state_summary(cancer_county$pct_unemployed16_over)
df_pct_white<-state_summary(cancer_county$pct_white)
df_pct_black<-state_summary(cancer_county$pct_black)
df_pct_asian<-state_summary(cancer_county$pct_asian)
df_pct_other_race<-state_summary(cancer_county$pct_other_race)
df_pct_married_households<-state_summary(cancer_county$pct_married_households)
df_pct_upto_hs18_24<-state_summary(cancer_county$pct_upto_hs18_24)
df_pct_with_coverage<-state_summary(cancer_county$pct_with_coverage)

state_des <- bind_rows(df_target_death_rate,
                      df_incidence_rate,
                      df_poverty_percent,
                      df_median_age,
                      df_median_agemale,
                      df_median_agefemale,
                      df_avg_household_size,
                      df_pct_unemployed16_over,
                      df_pct_white,
                      df_pct_black,
                      df_pct_asian,
                      df_pct_other_race,
                      df_pct_married_households,
                      df_pct_upto_hs18_24,
                      df_pct_with_coverage)

variable<- c("target_death_rate", "incidence_rate", "poverty_percent", "median_age", "median_agemale", "median_agefemale", "avg_household_size", "pct_unemployed16_over", "pct_white", "pct_black", "pct_asian", "pct_other_race", "pct_married_households", "pct_upto_hs18_24", "pct_with_coverage")

state_wholedes <- cbind(variable, state_des)

knitr::kable(state_wholedes)

```

variable	mean	max	min	median	var	sd	sample_size
target_death_rate	178.664063	362.80000	59.70000	178.1000000	770.1463805	27.7515113	3047
incidence_rate	448.268586	1206.90000	201.30000	453.5494221	2976.8735549	54.5607327	3047
poverty_percent	16.878175	47.40000	3.20000	15.9000000	41.0763948	6.4090869	3047
median_age	45.272333	624.00000	22.30000	41.0000000	2052.4959218	45.3044802	3047

variable	mean	max	min	median	var	sd	sample_size
median_agemale	39.570725	64.70000	22.40000	39.6000000	27.3112504	5.2260167	3047
median_agefemale	42.145323	65.70000	22.30000	42.4000000	28.0142518	5.2928491	3047
avg_household_size	2.479662	3.97000	0.02210	2.5000000	0.1841906	0.4291744	3047
pct_unemployed16_over	7.852412	29.40000	0.40000	7.6000000	11.9188640	3.4523708	3047
pct_white	83.645286	100.00000	10.19916	90.0597742	268.3052265	16.3800252	3047
pct_black	9.107978	85.94780	0.00000	2.2475763	211.2527926	14.5345379	3047
pct_asian	1.253965	42.61942	0.00000	0.5498117	6.8135428	2.6102764	3047
pct_other_race	1.983523	41.93025	0.00000	0.8261852	12.3742846	3.5177101	3047
pct_married_households	51.243872	78.07540	22.99249	51.6699411	43.2018812	6.5728138	3047
pct_upto_hs18_24	53.226518	100.00000	4.80000	53.9000000	160.1814371	12.6562805	3047
pct_with_coverage	83.595011	95.70000	54.60000	84.0000000	35.3664623	5.9469709	3047

## Model building:

### Stepwise:

```
# building full model
full_model <- lm(target_death_rate ~., data = cancer_county)
summary(full_model)

##
## Call:
## lm(formula = target_death_rate ~ ., data = cancer_county)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -129.883  -11.469    0.163   12.142  126.523
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   72.05882   12.58388    5.726 1.13e-08 ***
## incidence_rate  0.219657  0.007547   29.104 < 2e-16 ***
## poverty_percent 1.036531  0.120008    8.637 < 2e-16 ***
## median_age    -0.004080  0.008394   -0.486 0.626969
## median_age_male -0.241798  0.212259   -1.139 0.254726
## median_age_female 0.046110  0.209093    0.221 0.825476
## avg_household_size -0.117704  1.007617   -0.117 0.907015
## pct_unemployed16_over 0.781391  0.153410    5.093 3.73e-07 ***
## pct_white      0.067342  0.058298    1.155 0.248127
## pct_black     -0.016016  0.057020   -0.281 0.778818
## pct_asian     -0.628303  0.178918   -3.512 0.000452 ***
## pct_other_race -0.940645  0.124524   -7.554 5.56e-14 ***
## pct_married_households -0.220555  0.088361   -2.496 0.012611 *
## pct_upto_hs18_24 0.392918  0.038241   10.275 < 2e-16 ***
## pct_with_coverage -0.194259  0.101672   -1.911 0.056145 .
## income_cat    -4.104213  1.507502   -2.723 0.006516 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 20.77 on 3031 degrees of freedom
## Multiple R-squared:  0.4427, Adjusted R-squared:  0.4399
## F-statistic: 160.5 on 15 and 3031 DF, p-value: < 2.2e-16
```

```
# Using the stepwise
stepwise_model = stepAIC(full_model, direction = "both", trace = FALSE)
summary(stepwise_model)
```

```
##
## Call:
## lm(formula = target_death_rate ~ incidence_rate + poverty_percent +
##     median_age_male + pct_unemployed16_over + pct_white + pct_asian +
##     pct_other_race + pct_married_households + pct_upto_hs18_24 +
##     pct_with_coverage + income_cat, data = cancer_county)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -129.978  -11.453    0.127   12.095  126.386
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   70.812109  11.698781   6.053 1.60e-09 ***
## incidence_rate    0.219430   0.007509  29.223 < 2e-16 ***
## poverty_percent    1.038613   0.119140   8.718 < 2e-16 ***
## median_age_male   -0.202308   0.086539  -2.338 0.019465 *
## pct_unemployed16_over  0.774783   0.152081   5.095 3.71e-07 ***
## pct_white         0.080440   0.034847   2.308 0.021043 *
## pct_asian        -0.613378   0.167491  -3.662 0.000254 ***
## pct_other_race    -0.933301   0.119239  -7.827 6.84e-15 ***
## pct_married_households -0.222728   0.086039  -2.589 0.009680 **
## pct_upto_hs18_24    0.394452   0.037753  10.448 < 2e-16 ***
## pct_with_coverage  -0.194337   0.099299  -1.957 0.050430 .
## income_cat       -4.069227   1.500008  -2.713 0.006709 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 20.76 on 3035 degrees of freedom
## Multiple R-squared:  0.4426, Adjusted R-squared:  0.4406
## F-statistic: 219.1 on 11 and 3035 DF, p-value: < 2.2e-16
```

```
vif(stepwise_model)
```

```
##      incidence_rate      poverty_percent      median_age_male
##      1.186642          4.122196          1.446080
##  pct_unemployed16_over      pct_white      pct_asian
##      1.948976          2.303407          1.351383
##      pct_other_race  pct_married_households      pct_upto_hs18_24
##      1.243892          2.261059          1.614089
##      pct_with_coverage      income_cat
##      2.465515          1.729209
```

```
# Cp and AIC and Adjusted R2
```

```
model_dig <- glance(stepwise_model) %>%
  as.data.frame() %>%
  dplyr::select(adj.r.squared, sigma, p.value, AIC, BIC) %>%
  rename(RES = sigma) %>%
  mutate(cp = ols_mallows_cp(stepwise_model, full_model))
```

```
model_dig
```

```
## adj.r.squared RES p.value AIC BIC cp
## 1 0.4405848 20.75648 0 27143.23 27221.51 8.35992
```

forword elimination:

```
step_null <- lm(target_death_rate ~ 1, data = cancer_county)
for_model <- step(step_null, scope = list(lower = step_null, upper = full_model), direction = "forward")
```

```
## Start: AIC=20253.13
## target_death_rate ~ 1
##
##           Df Sum of Sq    RSS    AIC
## + incidence_rate      1    473839 1872027 19568
## + poverty_percent      1    432519 1913347 19634
## + pct_unemployed16_over  1    335919 2009947 19784
## + income_cat           1    215413 2130453 19962
## + pct_married_households 1    201838 2144028 19981
## + pct_black            1    154971 2190895 20047
## + pct_upto_hs18_24      1    140012 2205854 20068
## + pct_with_coverage     1    123320 2222546 20091
## + pct_other_race        1     84591 2261275 20143
## + pct_asian             1     81447 2264419 20148
## + pct_white             1     73826 2272040 20158
## + avg_household_size    1       3195 2342671 20251
## <none>                  2345866 20253
## + median_age_male       1       1128 2344738 20254
## + median_age_female     1        341 2345525 20255
## + median_age            1         45 2345821 20255
##
## Step: AIC=19567.63
## target_death_rate ~ incidence_rate
##
##           Df Sum of Sq    RSS    AIC
## + poverty_percent      1    424402 1447625 18786
## + pct_with_coverage     1    274299 1597728 19087
## + pct_unemployed16_over  1    263513 1608514 19107
## + income_cat           1    222580 1649447 19184
## + pct_upto_hs18_24      1    193672 1678355 19237
## + pct_married_households 1    121502 1750525 19365
## + pct_black            1    100866 1771161 19401
## + pct_asian             1     78292 1793736 19440
## + pct_white             1     68513 1803514 19456
## + pct_other_race        1     22640 1849387 19533
## <none>                  1872027 19568
## + avg_household_size    1       633 1871394 19569
## + median_age_female     1       611 1871416 19569
## + median_age_male       1       550 1871477 19569
## + median_age            1        33 1871994 19570
##
## Step: AIC=18786.25
## target_death_rate ~ incidence_rate + poverty_percent
##
```



```

##                               Df Sum of Sq      RSS      AIC
## + pct_upto_hs18_24           1      80716 1366909 18613
## + pct_other_race              1      33609 1414016 18717
## + pct_asian                   1      32261 1415365 18720
## + median_age_female           1      15019 1432607 18756
## + median_age_male             1      14077 1433549 18758
## + pct_with_coverage           1      13501 1434124 18760
## + pct_unemployed16_over       1      12716 1434910 18761
## + pct_white                   1       6634 1440992 18774
## + income_cat                  1       5706 1441919 18776
## + pct_married_households      1       3874 1443752 18780
## <none>                        1447625 18786
## + avg_household_size          1        594 1447031 18787
## + pct_black                   1        400 1447226 18787
## + median_age                  1        181 1447445 18788
##
## Step:  AIC=18613.44
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24
##
##                               Df Sum of Sq      RSS      AIC
## + pct_other_race              1      34240 1332669 18538
## + pct_asian                   1      12236 1354674 18588
## + pct_unemployed16_over       1       8454 1358456 18596
## + pct_white                   1       3759 1363151 18607
## + income_cat                  1       3424 1363486 18608
## + median_age_female           1       1261 1365649 18613
## + avg_household_size          1       1128 1365782 18613
## + median_age_male             1       1069 1365840 18613
## <none>                        1366909 18613
## + pct_married_households      1        613 1366296 18614
## + pct_with_coverage           1         27 1366882 18615
## + pct_black                   1          2 1366908 18615
## + median_age                  1          1 1366908 18615
##
## Step:  AIC=18538.14
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +
##      pct_other_race
##
##                               Df Sum of Sq      RSS      AIC
## + pct_unemployed16_over       1      9267.5 1323402 18519
## + pct_asian                   1      5052.3 1327617 18529
## + pct_with_coverage           1      2375.3 1330294 18535
## + income_cat                  1      2145.7 1330524 18535
## + pct_married_households      1      1066.1 1331603 18538
## <none>                        1332669 18538
## + median_age_male             1       458.9 1332211 18539
## + median_age_female           1       398.0 1332271 18539
## + pct_white                   1       224.1 1332445 18540
## + median_age                  1        35.2 1332634 18540
## + avg_household_size          1        24.8 1332645 18540
## + pct_black                   1        16.3 1332653 18540
##
## Step:  AIC=18518.88
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +

```

```

##      pct_other_race + pct_unemployed16_over
##
##              Df Sum of Sq      RSS      AIC
## + pct_asian      1      7150.1 1316252 18504
## + income_cat      1      2011.0 1321391 18516
## + pct_white       1      1797.2 1321605 18517
## + pct_with_coverage 1      1689.9 1321712 18517
## <none>                      1323402 18519
## + pct_black      1       571.9 1322830 18520
## + pct_married_households 1      414.8 1322987 18520
## + median_age_male 1      379.5 1323022 18520
## + median_age_female 1      264.7 1323137 18520
## + median_age      1      105.8 1323296 18521
## + avg_household_size 1       47.3 1323355 18521
##
## Step:  AIC=18504.37
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +
##      pct_other_race + pct_unemployed16_over + pct_asian
##
##              Df Sum of Sq      RSS      AIC
## + income_cat      1     2103.03 1314149 18502
## + pct_with_coverage 1     1477.42 1314774 18503
## + median_age_male  1     1159.91 1315092 18504
## + pct_married_households 1    1136.29 1315116 18504
## + median_age_female 1      967.25 1315285 18504
## <none>                      1316252 18504
## + pct_black      1      279.85 1315972 18506
## + pct_white      1      191.80 1316060 18506
## + median_age     1      170.35 1316081 18506
## + avg_household_size 1       3.69 1316248 18506
##
## Step:  AIC=18501.5
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +
##      pct_other_race + pct_unemployed16_over + pct_asian + income_cat
##
##              Df Sum of Sq      RSS      AIC
## + median_age_male  1     1598.68 1312550 18500
## + pct_with_coverage 1     1583.80 1312565 18500
## + median_age_female 1     1336.46 1312812 18500
## + pct_married_households 1    1292.40 1312856 18500
## <none>                      1314149 18502
## + pct_black      1      402.78 1313746 18503
## + pct_white      1      211.25 1313938 18503
## + median_age     1      177.61 1313971 18503
## + avg_household_size 1       7.28 1314142 18504
##
## Step:  AIC=18499.79
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +
##      pct_other_race + pct_unemployed16_over + pct_asian + income_cat +
##      median_age_male
##
##              Df Sum of Sq      RSS      AIC
## + pct_married_households 1    1342.99 1311207 18499
## + pct_with_coverage     1    1284.92 1311265 18499

```

```

## <none>                                1312550 18500
## + pct_black                          1    708.06 1311842 18500
## + pct_white                          1    660.99 1311889 18500
## + avg_household_size                  1    111.96 1312438 18502
## + median_age                          1     80.16 1312470 18502
## + median_age_female                   1      0.05 1312550 18502
##
## Step: AIC=18498.67
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +
##   pct_other_race + pct_unemployed16_over + pct_asian + income_cat +
##   median_age_male + pct_married_households
##
##           Df Sum of Sq    RSS    AIC
## + pct_white      1   1983.12 1309224 18496
## + pct_black      1   1807.47 1309400 18496
## + pct_with_coverage 1   1337.46 1309870 18498
## <none>                                1311207 18499
## + median_age      1    91.07 1311116 18500
## + median_age_female 1    11.49 1311196 18501
## + avg_household_size 1     9.17 1311198 18501
##
## Step: AIC=18496.06
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +
##   pct_other_race + pct_unemployed16_over + pct_asian + income_cat +
##   median_age_male + pct_married_households + pct_white
##
##           Df Sum of Sq    RSS    AIC
## + pct_with_coverage 1   1650.15 1307574 18494
## <none>                                1309224 18496
## + pct_black      1    143.74 1309080 18498
## + median_age      1     85.86 1309138 18498
## + median_age_female 1      2.57 1309221 18498
## + avg_household_size 1      0.84 1309223 18498
##
## Step: AIC=18494.22
## target_death_rate ~ incidence_rate + poverty_percent + pct_upto_hs18_24 +
##   pct_other_race + pct_unemployed16_over + pct_asian + income_cat +
##   median_age_male + pct_married_households + pct_white + pct_with_coverage
##
##           Df Sum of Sq    RSS    AIC
## <none>                                1307574 18494
## + median_age      1   101.118 1307473 18496
## + pct_black      1    24.646 1307549 18496
## + median_age_female 1    15.103 1307559 18496
## + avg_household_size 1     6.381 1307567 18496

```

```
summary(for_model)
```

```

##
## Call:
## lm(formula = target_death_rate ~ incidence_rate + poverty_percent +
##   pct_upto_hs18_24 + pct_other_race + pct_unemployed16_over +
##   pct_asian + income_cat + median_age_male + pct_married_households +
##   pct_white + pct_with_coverage, data = cancer_county)
##

```

```
## Residuals:
##      Min       1Q   Median       3Q      Max
## -129.978  -11.453    0.127   12.095  126.386
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    70.812109   11.698781    6.053 1.60e-09 ***
## incidence_rate    0.219430    0.007509   29.223 < 2e-16 ***
## poverty_percent    1.038613    0.119140    8.718 < 2e-16 ***
## pct_upto_hs18_24    0.394452    0.037753   10.448 < 2e-16 ***
## pct_other_race   -0.933301    0.119239   -7.827 6.84e-15 ***
## pct_unemployed16_over  0.774783    0.152081    5.095 3.71e-07 ***
## pct_asian       -0.613378    0.167491   -3.662 0.000254 ***
## income_cat      -4.069227    1.500008   -2.713 0.006709 **
## median_age_male  -0.202308    0.086539   -2.338 0.019465 *
## pct_married_households -0.222728    0.086039   -2.589 0.009680 **
## pct_white        0.080440    0.034847    2.308 0.021043 *
## pct_with_coverage -0.194337    0.099299   -1.957 0.050430 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 20.76 on 3035 degrees of freedom
## Multiple R-squared:  0.4426, Adjusted R-squared:  0.4406
## F-statistic: 219.1 on 11 and 3035 DF, p-value: < 2.2e-16
```

```
vif(for_model)
```

```
##      incidence_rate      poverty_percent      pct_upto_hs18_24
##      1.186642          4.122196          1.614089
##      pct_other_race  pct_unemployed16_over      pct_asian
##      1.243892          1.948976          1.351383
##      income_cat      median_age_male  pct_married_households
##      1.729209          1.446080          2.261059
##      pct_white      pct_with_coverage
##      2.303407          2.465515
```

backward elimination:

```
back_model <- step(full_model, direction = "backward", trace = FALSE)
summary(back_model) # same as stepwise
```

```
##
## Call:
## lm(formula = target_death_rate ~ incidence_rate + poverty_percent +
##      median_age_male + pct_unemployed16_over + pct_white + pct_asian +
##      pct_other_race + pct_married_households + pct_upto_hs18_24 +
##      pct_with_coverage + income_cat, data = cancer_county)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -129.978  -11.453    0.127   12.095  126.386
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    70.812109   11.698781    6.053 1.60e-09 ***
```

```
## incidence_rate      0.219430    0.007509   29.223 < 2e-16 ***
## poverty_percent     1.038613    0.119140    8.718 < 2e-16 ***
## median_age_male     -0.202308    0.086539   -2.338 0.019465 *
## pct_unemployed16_over 0.774783    0.152081    5.095 3.71e-07 ***
## pct_white           0.080440    0.034847    2.308 0.021043 *
## pct_asian           -0.613378    0.167491   -3.662 0.000254 ***
## pct_other_race      -0.933301    0.119239   -7.827 6.84e-15 ***
## pct_married_households -0.222728    0.086039   -2.589 0.009680 **
## pct_upto_hs18_24     0.394452    0.037753   10.448 < 2e-16 ***
## pct_with_coverage    -0.194337    0.099299   -1.957 0.050430 .
## income_cat          -4.069227    1.500008   -2.713 0.006709 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 20.76 on 3035 degrees of freedom
## Multiple R-squared:  0.4426, Adjusted R-squared:  0.4406
## F-statistic: 219.1 on 11 and 3035 DF,  p-value: < 2.2e-16
```

```
vif(back_model)
```

```
##          incidence_rate      poverty_percent      median_age_male
##          1.186642           4.122196           1.446080
##  pct_unemployed16_over      pct_white           pct_asian
##          1.948976           2.303407           1.351383
##          pct_other_race  pct_married_households      pct_upto_hs18_24
##          1.243892           2.261059           1.614089
##          pct_with_coverage      income_cat
##          2.465515           1.729209
```

## Cross validation and Criterion method summery

```
cross_df <- crossv_mc(cancer_county, n = 100, test = 0.2)

cross_result <- cross_df %>%
  mutate(train = map(train, as_tibble),
         test = map(test, as_tibble),
         step_mod = map(train, ~lm(target_death_rate ~ incidence_rate + poverty_percent +
median_age_male + pct_unemployed16_over + pct_white + pct_asian +
pct_other_race + pct_married_households + pct_upto_hs18_24 +
pct_with_coverage + income_cat, data = .x)),

         rmse_train = map2_dbl(step_mod, train, ~rmse(model = .x, data = .y)),
         rmse_test = map2_dbl(step_mod, test, ~rmse(model = .x, data = .y)))

mse_result = cross_result %>%
  dplyr::select(rmse_train, rmse_test) %>%
  summarize(mse_train = (mean(rmse_train))^2,
           mse_test = (mean(rmse_test))^2) %>%
  knitr::kable(digit = 3)

mse_result
```

mse_train	mse_test
428.292	435.228

```
#CV
glm.fit = glm(target_death_rate ~ incidence_rate + poverty_percent +
  median_age_male + pct_unemployed16_over + pct_white + pct_asian +
  pct_other_race + pct_married_households + pct_upto_hs18_24 +
  pct_with_coverage + income_cat, data = cancer_county)
```

```
library(boot) # For cv.glm()
cv.err = cv.glm(cancer_county, glm.fit)
```

```
# The two delta values should be similar: we use the first one
# The second value is bias corrected
cv.err$delta #434.8355
```

```
## [1] 434.8355 434.8346
```

```
anova(back_model)[12, 3] #MSE: 431
```

```
## [1] 430.8316
```

## Bootstrap

```
back_model = lm(target_death_rate ~ incidence_rate + poverty_percent +
  median_age_male + pct_unemployed16_over + pct_white + pct_asian +
  pct_other_race + pct_married_households + pct_upto_hs18_24 +
  pct_with_coverage + income_cat, data = cancer_county)

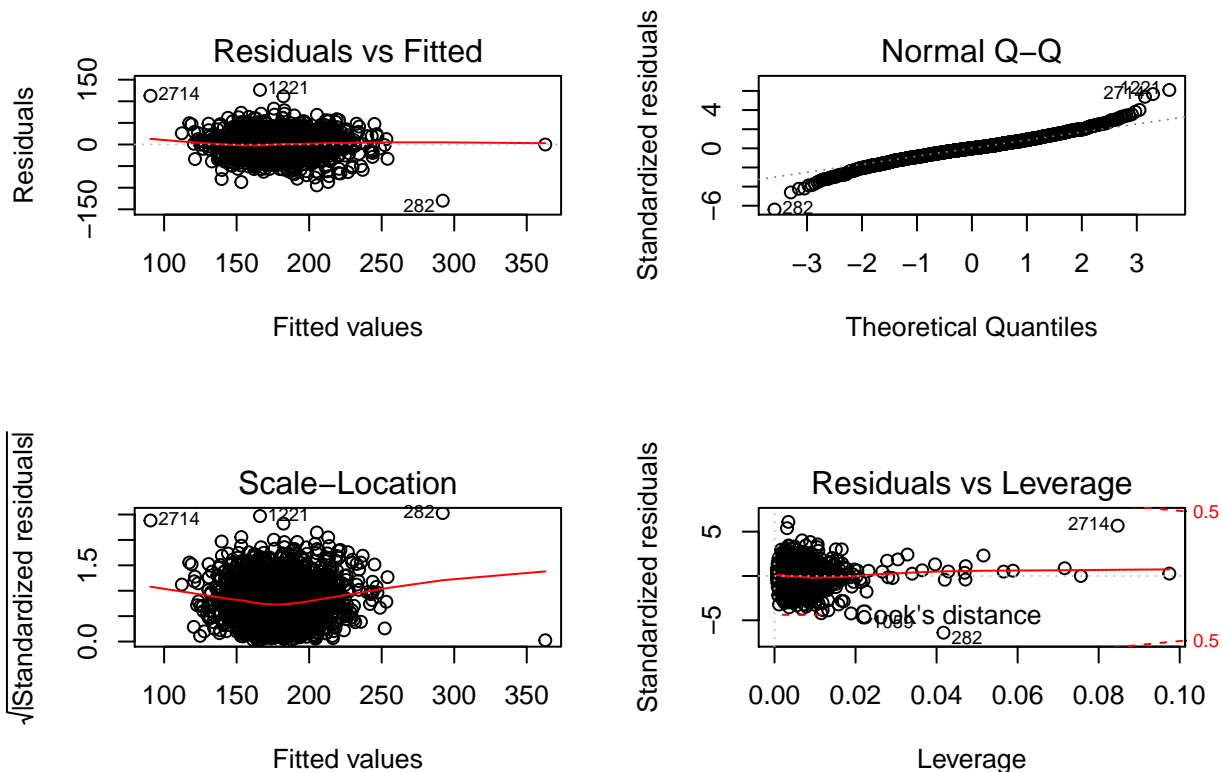
cancer_county %>%
  modelr::bootstrap(n = 1000) %>%
  mutate(models = map(strap, ~lm(target_death_rate ~ incidence_rate + poverty_percent +
    median_age_male + pct_unemployed16_over + pct_white + pct_asian +
    pct_other_race + pct_married_households + pct_upto_hs18_24 +
    pct_with_coverage + income_cat, data = .x)),
    results = map(models, broom::tidy)) %>%
  dplyr::select(-strap, -models) %>%
  unnest() %>%
  group_by(term) %>%
  summarize(boot_se = sd(estimate))
```

```
## # A tibble: 12 x 2
##   term                boot_se
##   <chr>              <dbl>
## 1 (Intercept)        15.5
## 2 incidence_rate      0.0133
## 3 income_cat          1.72
## 4 median_age_male     0.0993
## 5 pct_asian           0.276
## 6 pct_married_households 0.104
## 7 pct_other_race      0.158
```

```
## 8 pct_unemployed16_over 0.194
## 9 pct_upto_hs18_24      0.0429
## 10 pct_white            0.0431
## 11 pct_with_coverage    0.127
## 12 poverty_percent      0.148
```

## Outliers

```
par(mfrow = c(2,2))
plot(stepwise_model) # we observe the 282, 1059 are outliers
```



```
# Using the studentized residuals
stu_res_step <- rstandard(stepwise_model)
outliers_y_step = stu_res_step[abs(stu_res_step) > 2.5]
outliers_y_step
```

```
##      116      119      120      122      124      166      189
## 3.832977 -2.987984 -2.938723 3.451322 -3.218087 3.004467 -2.722478
##      209      250      254      256      264      282      522
## 2.634644 2.588483 3.557345 -2.852694 -3.008080 -6.396845 2.942781
##      524      621      627      666      775      783      803
## 2.568705 -2.758364 3.045997 2.920921 3.334436 -2.537021 -2.663472
##      812      845      912      921      979      1048     1058
## -3.536931 -3.028088 -3.843379 -3.048353 2.507593 -2.742014 -2.740598
##      1059      1066      1076      1094      1217      1221      1261
## -4.608218 -2.851923 2.589435 -3.878191 2.599136 6.099415 3.086750
##      1310      1331      1345      1366      1429      1497      1797
## 2.535483 -2.754403 -2.677687 5.386441 -3.247185 4.014689 -2.821788
```

```
##      1868      1942      1958      1965      2016      2036      2066
## -2.751254 -4.227918 3.000271 -2.799419 2.516370 2.505926 -3.205862
##      2174      2176      2318      2323      2444      2549      2563
## 2.961474 2.732626 -3.324763 -2.721648 -3.437022 2.598223 2.685328
##      2590      2600      2626      2637      2642      2646      2659
## 2.708745 3.313439 -3.205136 3.444507 -2.786091 -4.202767 -3.695226
##      2669      2674      2696      2714      2726      2727      2809
## -2.505761 -3.095519 -2.594155 5.675093 2.838797 3.252953 -2.983391
```

```
stu_res_for = rstandard(for_model)
outliers_y_for = stu_res_for[abs(stu_res_for) > 2.5]
outliers_y_for
```

```
##      116      119      120      122      124      166      189
## 3.832977 -2.987984 -2.938723 3.451322 -3.218087 3.004467 -2.722478
##      209      250      254      256      264      282      522
## 2.634644 2.588483 3.557345 -2.852694 -3.008080 -6.396845 2.942781
##      524      621      627      666      775      783      803
## 2.568705 -2.758364 3.045997 2.920921 3.334436 -2.537021 -2.663472
##      812      845      912      921      979      1048      1058
## -3.536931 -3.028088 -3.843379 -3.048353 2.507593 -2.742014 -2.740598
##      1059      1066      1076      1094      1217      1221      1261
## -4.608218 -2.851923 2.589435 -3.878191 2.599136 6.099415 3.086750
##      1310      1331      1345      1366      1429      1497      1797
## 2.535483 -2.754403 -2.677687 5.386441 -3.247185 4.014689 -2.821788
##      1868      1942      1958      1965      2016      2036      2066
## -2.751254 -4.227918 3.000271 -2.799419 2.516370 2.505926 -3.205862
##      2174      2176      2318      2323      2444      2549      2563
## 2.961474 2.732626 -3.324763 -2.721648 -3.437022 2.598223 2.685328
##      2590      2600      2626      2637      2642      2646      2659
## 2.708745 3.313439 -3.205136 3.444507 -2.786091 -4.202767 -3.695226
##      2669      2674      2696      2714      2726      2727      2809
## -2.505761 -3.095519 -2.594155 5.675093 2.838797 3.252953 -2.983391
```

```
# various measure of influence
influence.measures(stepwise_model) #we observe the 282, 1059 are potential outliers
```

```
## Influence measures of
## lm(formula = target_death_rate ~ incidence_rate + poverty_percent + median_age_male + pct_unemp)
##
##      dfb.1_ dfb.incd_ dfb.pvr_ dfb.md__ dfb.p_16 dfb.pct_w dfb.pct_s
## 1      3.05e-03 -5.84e-03 7.54e-03 7.01e-03 -6.52e-03 -1.19e-03 -1.18e-02
## 2     -7.84e-04 1.19e-03 -4.50e-04 1.30e-03 -3.41e-04 -1.64e-03 1.83e-05
## 3     -4.64e-03 -3.24e-02 2.74e-03 8.82e-03 4.47e-03 7.12e-04 -2.97e-03
## 4     -4.97e-03 -7.37e-03 -3.14e-03 4.77e-04 2.06e-02 1.17e-02 3.60e-03
## 5     -2.76e-03 1.12e-02 1.09e-03 -7.74e-03 2.81e-03 8.95e-04 -2.89e-04
## 6      1.68e-03 -2.05e-02 1.94e-02 -1.07e-02 -3.38e-02 -1.03e-02 -5.65e-03
## 7      1.53e-02 -8.54e-03 -1.79e-02 -1.34e-02 6.00e-03 4.26e-03 -1.01e-03
## 8     -8.42e-04 -6.36e-03 2.61e-03 2.28e-02 2.71e-03 3.93e-03 8.40e-03
## 9      1.16e-02 -8.07e-04 -1.02e-02 -8.34e-03 -1.62e-03 -1.61e-03 -3.66e-03
## 10     1.88e-04 -6.24e-03 4.71e-03 5.08e-03 -3.97e-03 -1.28e-03 -9.31e-03
## 11     4.98e-04 1.75e-02 4.34e-03 -1.02e-01 8.62e-03 7.56e-03 -8.69e-03
## 12     1.07e-02 -1.32e-02 -2.16e-03 -2.45e-03 -2.37e-03 -3.12e-03 -2.58e-03
## 13     1.93e-03 -1.98e-02 -1.39e-02 6.07e-03 1.51e-02 8.71e-03 2.88e-03
## 14     -6.76e-04 -5.46e-03 5.26e-03 2.50e-03 -2.27e-03 -2.81e-03 -1.90e-02
```



## 15	-4.10e-04	7.70e-04	6.41e-05	1.18e-03	-8.26e-04	-1.35e-03	-3.84e-04
## 16	4.88e-03	1.82e-03	-5.22e-03	-5.42e-03	-1.82e-03	6.29e-04	-1.25e-03
## 17	-5.27e-06	-4.97e-03	5.54e-03	3.69e-03	-5.35e-03	-3.53e-03	-1.19e-02
## 18	1.63e-02	-4.10e-03	8.25e-03	-5.21e-02	-3.36e-02	-1.13e-03	-8.67e-03
## 19	-1.71e-03	1.49e-05	2.39e-04	2.37e-03	1.02e-03	-2.50e-03	1.10e-03
## 20	-4.46e-03	-8.30e-03	9.86e-04	3.09e-03	-4.20e-03	-8.22e-03	-8.21e-03
## 21	2.90e-02	4.21e-02	-7.43e-02	4.25e-02	6.70e-03	-4.50e-02	-5.13e-02
## 22	8.19e-04	3.89e-04	-9.75e-04	3.81e-03	-5.28e-04	-2.66e-03	8.80e-04
## 23	-5.01e-03	1.58e-04	1.02e-02	2.97e-03	1.41e-03	3.31e-03	1.44e-03
## 24	-2.15e-03	-3.43e-03	-1.93e-02	-1.93e-02	2.62e-02	1.07e-02	-3.93e-03
## 25	-6.09e-02	2.07e-02	5.65e-02	-2.18e-03	2.81e-03	2.98e-02	1.35e-02
## 26	-1.04e-03	-2.20e-03	-1.42e-03	-1.12e-03	3.65e-03	3.05e-03	8.99e-04
## 27	1.68e-04	1.86e-03	2.91e-04	4.05e-03	-9.61e-04	3.43e-03	-7.60e-04
## 28	8.65e-04	2.48e-04	-5.50e-04	-6.44e-04	-6.03e-04	1.21e-03	1.08e-04
## 29	1.47e-02	7.02e-03	-4.25e-02	3.57e-02	9.75e-02	4.07e-02	1.99e-03
## 30	3.65e-02	-5.35e-02	-1.34e-02	-2.44e-03	-1.21e-02	-2.02e-02	-1.48e-02
## 31	3.02e-03	-1.43e-01	1.17e-02	-3.64e-02	-9.66e-04	3.72e-02	1.73e-02
## 32	-1.44e-02	5.95e-04	1.94e-02	1.18e-03	1.66e-03	1.91e-02	7.50e-03
## 33	-7.46e-03	7.36e-03	2.25e-02	3.60e-03	-9.01e-03	-1.59e-03	-7.01e-04
## 34	2.61e-02	5.33e-02	-3.29e-02	-2.14e-02	4.80e-04	-5.11e-03	-2.66e-04
## 35	1.81e-03	-1.29e-03	-2.46e-03	-1.52e-03	1.31e-03	-1.37e-03	-7.50e-04
## 36	5.73e-03	-7.94e-04	-2.99e-03	-8.62e-04	-3.51e-03	2.35e-02	4.31e-03
## 37	6.97e-04	8.83e-04	-1.06e-03	8.57e-04	3.72e-04	7.50e-04	-4.79e-04
## 38	8.28e-03	3.01e-02	2.55e-03	5.04e-03	-7.06e-03	-1.53e-02	-6.47e-03
## 39	3.74e-03	1.18e-02	-9.56e-03	-5.31e-03	2.62e-03	1.25e-02	-2.28e-04
## 40	-1.02e-02	2.32e-03	8.55e-03	-1.51e-04	-1.22e-03	2.70e-03	1.84e-05
## 41	1.05e-02	-1.05e-02	-1.82e-02	-2.05e-04	1.88e-02	-2.12e-03	-5.85e-03
## 42	3.91e-04	7.50e-03	-1.10e-03	-3.91e-04	-4.19e-03	8.12e-03	1.51e-03
## 43	-6.92e-03	1.62e-02	8.79e-03	2.80e-03	-5.56e-03	8.13e-03	3.38e-03
## 44	-1.34e-02	1.17e-02	5.41e-03	-5.58e-03	1.14e-03	1.62e-02	7.65e-03
## 45	-2.78e-02	3.91e-02	2.01e-02	2.54e-03	2.43e-02	3.25e-02	1.22e-02
## 46	-1.73e-02	-1.68e-03	1.80e-02	-4.31e-03	6.09e-04	1.98e-02	1.13e-02
## 47	4.64e-04	-1.87e-03	-1.56e-03	-1.00e-04	2.03e-03	-7.65e-04	-2.68e-05
## 48	-4.13e-03	-5.53e-06	2.82e-03	1.42e-03	4.85e-04	1.70e-03	1.42e-04
## 49	-2.14e-02	-2.86e-03	1.53e-02	-1.35e-03	9.95e-03	1.60e-02	4.16e-03
## 50	-6.45e-03	1.36e-02	2.20e-02	4.84e-03	-2.34e-02	6.53e-03	4.47e-03
## 51	1.17e-02	-1.52e-03	-1.19e-02	-1.91e-03	5.64e-03	1.66e-02	1.85e-04
## 52	-3.66e-02	1.46e-02	1.95e-02	-9.53e-03	2.56e-02	3.40e-02	1.49e-02
## 53	-5.00e-04	1.36e-02	-2.82e-02	3.39e-02	1.71e-02	-3.19e-02	-1.20e-02
## 54	-9.07e-03	-2.89e-03	1.42e-02	1.11e-02	-2.43e-03	4.09e-03	1.41e-03
## 55	3.27e-02	-2.01e-02	-5.81e-02	2.45e-03	5.65e-02	4.62e-02	2.78e-03
## 56	-1.63e-02	1.11e-05	1.69e-02	2.41e-03	2.05e-03	7.67e-03	3.66e-03
## 57	-1.47e-05	-8.09e-04	-9.07e-04	-6.90e-04	1.20e-03	-1.00e-03	6.94e-05
## 58	1.66e-02	2.86e-02	-2.57e-02	-2.55e-02	2.27e-02	-2.08e-04	-6.33e-03
## 59	-4.50e-02	-4.04e-03	2.96e-02	1.84e-03	1.30e-02	6.46e-03	-3.25e-03
## 60	1.29e-03	-2.92e-03	-2.12e-03	1.84e-03	-2.01e-03	1.52e-03	6.25e-04
## 61	9.12e-03	2.63e-03	-9.84e-03	2.32e-03	1.94e-03	-1.90e-03	-8.76e-04
## 62	1.68e-03	-5.55e-03	1.09e-03	1.46e-03	4.12e-03	1.72e-03	2.12e-03
## 63	-2.62e-03	3.52e-03	6.96e-03	1.75e-04	-6.82e-03	3.62e-03	2.74e-03
## 64	5.89e-03	7.05e-03	-1.22e-02	-6.75e-04	4.58e-03	-6.26e-03	-2.72e-03
## 65	-2.89e-03	1.20e-02	-2.84e-03	8.13e-03	1.35e-02	1.65e-02	2.86e-03
## 66	-4.23e-03	-7.74e-04	1.38e-03	-1.54e-03	-4.26e-04	5.50e-03	2.46e-03
## 67	1.82e-02	2.06e-02	-1.41e-02	-8.71e-03	-1.53e-03	-1.07e-02	-6.55e-03
## 68	-7.95e-05	-6.59e-04	7.70e-05	-3.33e-05	5.86e-04	6.05e-04	1.63e-04

## 69	4.25e-02	-4.11e-02	-3.23e-02	-3.59e-02	3.85e-03	-2.41e-03	-1.16e-02
## 70	-1.06e-03	2.02e-03	-4.19e-03	4.25e-03	1.09e-02	8.20e-03	1.02e-03
## 71	-2.98e-03	6.64e-04	6.55e-03	1.87e-03	5.24e-05	3.61e-03	7.10e-04
## 72	-2.09e-05	7.54e-04	-4.18e-04	1.68e-04	-1.02e-03	-2.20e-03	-2.82e-04
## 73	-3.38e-02	3.34e-02	-3.23e-03	1.47e-02	6.04e-02	7.23e-02	2.91e-02
## 74	2.08e-03	-1.54e-03	-1.26e-03	-4.13e-04	1.76e-04	-1.51e-03	-9.78e-04
## 75	-3.29e-04	-9.22e-06	3.98e-04	2.87e-04	1.40e-05	1.51e-04	4.19e-05
## 76	1.15e-03	-1.90e-03	-3.77e-04	3.58e-04	-1.83e-03	-5.30e-03	-5.26e-04
## 77	-2.08e-02	-3.69e-03	5.32e-03	-1.10e-02	1.81e-02	4.31e-02	9.33e-03
## 78	-2.82e-02	1.98e-03	1.49e-02	2.46e-02	1.14e-02	1.03e-03	4.62e-03
## 79	3.65e-02	-1.51e-02	-3.26e-02	6.70e-03	1.16e-02	1.45e-02	-2.27e-02
## 80	2.01e-04	6.95e-04	2.11e-05	1.53e-04	5.97e-05	-3.85e-04	3.71e-05
## 81	-1.64e-03	-2.66e-02	2.85e-03	4.12e-02	4.88e-03	-1.76e-02	-8.00e-03
## 82	-6.34e-04	-3.97e-03	7.20e-03	1.17e-02	5.12e-04	-6.06e-03	-3.71e-03
## 83	2.93e-04	-1.36e-02	-2.62e-03	5.15e-03	-5.43e-03	-4.55e-05	-4.35e-03
## 84	-2.18e-02	-2.58e-02	2.09e-02	4.87e-02	2.23e-03	-7.18e-03	-1.59e-03
## 85	1.99e-03	-1.22e-03	9.20e-04	1.55e-03	1.07e-03	2.25e-03	8.57e-05
## 86	1.96e-04	-7.25e-03	6.98e-03	8.14e-03	3.15e-03	-2.96e-03	1.01e-03
## 87	-3.53e-02	-2.30e-02	1.04e-02	3.49e-02	2.91e-02	-2.44e-02	-1.43e-02
## 88	-2.10e-05	1.76e-05	-1.16e-04	-5.75e-05	3.01e-05	2.82e-05	-4.03e-05
## 89	2.84e-03	-3.75e-04	-9.33e-04	-1.98e-03	7.04e-04	-2.42e-03	-7.24e-05
## 90	-6.25e-04	2.38e-03	-3.68e-04	2.37e-03	1.32e-03	-1.85e-03	-2.70e-03
## 91	-3.27e-03	-5.44e-03	-5.98e-03	-5.98e-03	2.47e-03	2.38e-03	-2.72e-03
## 92	1.02e-02	1.48e-03	-1.85e-03	-1.58e-02	-1.68e-03	4.27e-03	1.63e-03
## 93	4.88e-02	-8.34e-02	-3.09e-02	-1.06e-02	1.84e-02	3.90e-02	-1.10e-02
## 94	2.31e-04	-5.16e-04	1.66e-07	-4.82e-04	8.70e-05	3.03e-04	-1.88e-05
## 95	-1.88e-03	1.83e-03	3.76e-04	4.21e-03	4.32e-04	-3.74e-03	-1.80e-03
## 96	-1.34e-03	-8.06e-02	1.05e-02	7.00e-02	2.46e-02	-1.47e-02	-1.30e-02
## 97	1.95e-03	-2.87e-03	5.36e-03	1.65e-03	-5.75e-05	-1.13e-03	3.04e-03
## 98	-3.25e-03	-2.16e-02	9.09e-03	-2.20e-02	-1.42e-02	8.28e-03	3.85e-03
## 99	1.07e-03	-1.55e-03	9.21e-04	-3.19e-03	-1.25e-03	1.74e-03	-1.05e-03
## 100	5.34e-05	7.40e-04	4.77e-04	3.29e-04	3.75e-04	-3.11e-05	3.55e-04
## 101	-3.17e-04	5.60e-05	4.74e-04	9.75e-04	3.85e-04	1.00e-03	1.82e-03
## 102	6.02e-03	-1.97e-02	1.38e-02	1.66e-02	-3.33e-02	-1.43e-02	-5.41e-04
## 103	6.12e-04	-3.02e-02	2.20e-02	6.88e-02	-2.98e-02	-2.06e-02	-2.27e-02
## 104	2.30e-02	-9.86e-02	-3.35e-03	-2.47e-02	-5.07e-03	-8.67e-03	-1.87e-02
## 105	2.43e-02	4.98e-03	-2.83e-02	-5.37e-02	4.93e-02	3.79e-02	1.60e-02
## 106	1.36e-03	4.51e-04	4.20e-03	-3.08e-03	-4.61e-04	-3.58e-03	-6.95e-04
## 107	9.81e-04	-1.40e-02	5.07e-03	4.20e-03	-1.26e-02	-2.80e-03	-2.33e-03
## 108	1.10e-03	-5.02e-04	-7.02e-04	-1.07e-05	-5.93e-03	-5.69e-03	-4.78e-03
## 109	-9.71e-04	6.79e-03	-4.81e-03	1.21e-02	3.78e-03	5.78e-04	6.45e-03
## 110	9.08e-03	-1.78e-02	-2.08e-03	-1.49e-02	1.48e-02	-1.66e-03	-8.27e-03
## 111	9.60e-03	-1.47e-02	-1.99e-03	-6.59e-03	-1.44e-02	-2.16e-03	-9.43e-03
## 112	3.01e-02	2.45e-03	-5.33e-02	-2.13e-02	5.24e-02	2.35e-02	9.24e-03
## 113	-1.64e-03	-1.17e-03	2.63e-03	-3.12e-04	-2.02e-03	-1.86e-03	-6.29e-03
## 114	-2.58e-03	-9.32e-03	2.40e-02	-3.90e-02	-2.04e-02	8.60e-03	1.06e-03
## 115	-2.63e-02	-9.82e-03	2.75e-02	3.92e-02	2.50e-03	2.67e-04	1.09e-02
## 116	1.85e-01	3.51e-02	-2.26e-01	2.44e-02	1.26e-01	1.34e-01	-3.86e-02
## 117	3.35e-03	1.59e-03	-3.69e-03	9.04e-04	-1.15e-03	3.96e-04	-2.81e-04
## 118	1.33e-02	1.86e-03	-2.24e-02	-1.82e-02	6.60e-03	8.65e-03	-4.86e-03
## 119	-3.85e-02	-5.16e-03	1.24e-01	9.19e-02	-1.24e-01	-4.43e-02	5.12e-03
## 120	-4.39e-03	-1.07e-02	4.52e-02	5.87e-02	-9.76e-02	-2.55e-02	7.51e-03
## 121	2.02e-03	1.95e-03	-1.95e-02	4.08e-03	2.95e-02	8.98e-03	1.56e-04
## 122	5.50e-02	-1.47e-02	-9.01e-02	1.47e-01	1.41e-01	3.42e-02	4.98e-02

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## 123 -1.45e-02  9.03e-03 -1.37e-02  4.94e-02  4.51e-02  8.80e-03  1.29e-02
## 124 -3.38e-03 -1.46e-02  5.41e-03  1.64e-02 -2.48e-02 -3.14e-02  3.68e-03
## 125 -4.08e-02 -9.18e-03  8.83e-02 -8.65e-02 -6.56e-02 -1.00e-02 -1.25e-02
## 126 -5.00e-03 -1.29e-03  4.32e-03  4.65e-04 -2.79e-03 -5.31e-03 -6.14e-03
## 127  6.33e-04 -1.87e-05 -1.81e-03 -1.35e-03  1.77e-03  7.34e-04 -5.52e-06
## 128  2.44e-03  2.19e-03 -3.52e-03  9.11e-03  1.26e-02  1.58e-02  7.72e-03
## 129 -7.18e-05 -2.35e-04  1.86e-04 -1.40e-04  5.12e-05 -3.83e-05 -1.52e-05
## 130 -4.65e-03 -9.32e-03  9.29e-03 -1.53e-02  1.85e-03 -5.12e-04 -1.61e-03
## 131 -8.72e-03 -5.98e-03  7.65e-03 -4.33e-03 -8.44e-04 -4.90e-03  2.97e-03
## 132  3.92e-05  1.91e-05 -6.12e-05  1.85e-04 -1.87e-05  1.28e-04  1.97e-05
## 133 -5.95e-03  1.15e-03  3.21e-03 -1.46e-03  1.40e-03 -2.49e-03 -2.54e-03
## 134 -3.87e-03 -3.14e-03  8.64e-03  2.52e-03 -1.50e-03 -2.91e-03 -4.25e-03
## 135 -1.21e-03 -3.32e-03  2.81e-03 -6.07e-04  3.68e-04 -5.14e-04  2.44e-04
## 136 -1.05e-04 -3.69e-03  4.06e-03 -7.42e-04 -1.19e-03  6.08e-04  3.51e-04
## 137  1.51e-03  1.28e-03 -1.28e-03 -7.87e-04  3.03e-04  1.13e-03  4.01e-04
## 138 -6.21e-03 -3.45e-03  1.12e-02 -1.20e-03  5.40e-04 -6.01e-03 -8.77e-04
## 139  1.62e-04 -2.00e-03  1.71e-03 -1.44e-03 -3.29e-03 -6.87e-04 -4.73e-03
## 140  2.91e-04 -1.74e-03  5.37e-04 -2.60e-03 -8.62e-05  4.85e-04 -9.32e-03
## 141  1.71e-03 -7.74e-03  8.95e-03 -6.64e-04 -5.83e-03  6.24e-03 -2.45e-03
## 142 -1.41e-04  9.10e-04 -6.29e-04  1.53e-04  5.18e-04 -2.66e-04  3.94e-04
## 143  2.59e-03 -5.34e-03  1.40e-03 -4.18e-03 -3.27e-03 -2.74e-04  2.45e-04
## 144  1.95e-03 -2.80e-03  2.49e-04  2.05e-04 -1.45e-03  8.11e-04  1.74e-03
## 145 -6.34e-03 -3.95e-04  9.92e-03 -4.16e-03 -8.72e-03  8.74e-03  1.08e-03
## 146 -1.55e-03  1.48e-02 -1.33e-02 -1.48e-03  1.26e-02 -4.67e-03 -7.90e-04
## 147  5.14e-03 -1.35e-03 -1.33e-03  3.53e-03  4.44e-05  5.33e-03  2.10e-02
## 148  1.75e-02 -1.46e-02  1.59e-02 -1.06e-02 -1.22e-02  1.58e-02 -8.29e-03
## 149  1.39e-03 -9.80e-03  4.87e-03 -5.29e-03 -5.81e-03  5.59e-03 -2.29e-02
## 150 -1.36e-03  8.00e-03  1.17e-03  1.03e-02  5.76e-04  6.91e-04  7.37e-02
## 151  2.89e-04 -9.49e-03  6.53e-03 -4.13e-03 -4.80e-03  2.59e-03 -5.79e-03
## 152  2.27e-03 -5.81e-03  5.16e-03 -4.68e-03 -3.29e-03  3.08e-03 -1.61e-02
## 153  4.95e-03 -1.12e-02  5.00e-03 -1.16e-03 -9.59e-03 -2.70e-03  1.19e-04
## 154  1.92e-03 -3.13e-03 -2.27e-03 -2.81e-03  4.04e-04  1.75e-03 -3.57e-03
## 155 -1.18e-03  3.90e-03 -4.50e-03  9.40e-05  5.71e-03 -6.64e-04 -2.28e-03
## 156 -3.28e-03  3.70e-03 -1.36e-03  4.67e-03  3.89e-04 -3.75e-03  2.25e-02
## 157  4.18e-06  4.68e-03 -9.02e-03  2.60e-03  9.04e-03 -2.42e-03 -1.81e-03
## 158 -1.80e-03 -3.00e-03  6.10e-03 -2.39e-03 -3.82e-03  4.03e-03  4.53e-04
## 159  5.98e-04  2.18e-03 -5.62e-03  1.20e-03  5.74e-03  5.97e-05  1.31e-04
## 160 -1.31e-03  5.77e-03  5.93e-04 -9.19e-04 -1.35e-03 -5.90e-03  4.84e-03
## 161  8.42e-03 -1.39e-03  2.89e-03  2.17e-02 -8.82e-03 -2.21e-03  1.14e-03
## 162 -2.26e-03 -3.12e-03  5.69e-03 -1.55e-03 -1.75e-03  2.87e-03 -2.00e-03
## 163  2.08e-02  3.81e-02 -3.01e-02 -1.36e-02 -3.13e-02  3.25e-02  2.84e-02
## 164  2.05e-02  2.61e-02 -1.80e-02 -3.70e-02 -9.35e-03 -1.61e-02  3.69e-06
## 165 -2.13e-04 -1.24e-03  2.21e-04 -7.86e-04  4.83e-04  2.71e-04 -8.02e-04
## 166 -5.36e-02  5.09e-02 -1.38e-02  1.41e-01 -9.07e-02  2.02e-02 -2.68e-02
## 167  1.08e-02  2.41e-02 -4.19e-02  1.63e-02 -1.44e-02 -2.80e-02 -1.60e-03
## 168  5.29e-03 -7.76e-03 -5.09e-03 -9.65e-03 -1.20e-03  6.65e-03 -3.39e-03
## 169  7.91e-04  1.94e-03 -5.36e-04 -9.52e-04 -8.65e-04 -9.41e-04  4.70e-04
## 170 -7.68e-03  2.24e-02 -2.08e-02 -8.43e-03  6.49e-02 -1.48e-02  4.43e-03
## 171 -7.41e-03  2.50e-02  1.41e-02  1.08e-02 -1.61e-02 -3.13e-02 -2.47e-03
## 172  9.88e-03 -9.94e-03 -1.23e-03 -1.37e-02 -2.86e-03  3.79e-03 -4.59e-03
## 173  2.17e-02  3.58e-02 -3.62e-02 -6.90e-02  9.18e-03 -2.35e-04  1.20e-02
## 174  9.95e-03  2.06e-02  1.91e-02 -6.04e-03  3.93e-03  1.42e-02 -4.01e-02
## 175  5.39e-03  7.74e-03 -6.95e-03  9.67e-03 -1.66e-02 -3.94e-02 -8.93e-03
## 176 -1.10e-01  7.30e-02  1.29e-02  2.57e-02  7.96e-03  1.24e-01  3.77e-02

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## 177	1.74e-04	3.63e-03	2.53e-03	2.73e-02	-9.96e-03	-2.90e-03	-1.61e-02
## 178	5.63e-04	6.31e-03	6.93e-05	4.84e-03	-1.05e-02	-3.66e-03	2.87e-03
## 179	8.68e-04	-1.80e-03	2.03e-05	2.41e-04	-5.89e-03	4.77e-03	1.82e-03
## 180	-2.10e-03	3.25e-03	3.68e-03	-2.95e-03	-1.82e-03	-9.86e-04	3.93e-03
## 181	-3.56e-03	-1.76e-02	2.16e-02	-6.78e-03	9.06e-03	1.20e-02	-2.67e-02
## 182	-2.22e-03	1.23e-02	1.46e-02	-2.85e-03	-1.60e-02	1.31e-02	1.61e-02
## 183	-2.92e-02	2.95e-02	3.88e-04	7.57e-03	5.58e-03	4.09e-02	2.37e-02
## 184	-2.18e-03	-3.29e-03	-4.40e-03	6.31e-02	-2.93e-02	1.11e-02	-4.14e-02
## 185	-3.58e-02	2.63e-02	3.46e-02	-2.04e-02	-1.16e-02	-1.92e-02	1.11e-02
## 186	-6.93e-05	-9.52e-05	1.89e-04	3.54e-03	-1.77e-03	1.06e-03	8.80e-04
## 187	-6.68e-03	1.79e-02	-1.79e-02	2.13e-02	3.01e-02	-3.54e-02	-3.59e-03
## 188	-1.20e-03	1.50e-02	5.08e-03	-2.56e-02	-1.00e-02	-3.93e-03	9.72e-03
## 189	1.08e-01	-1.13e-01	-1.28e-01	-5.82e-02	5.35e-03	-3.36e-02	-2.65e-02
## 190	2.43e-02	-3.05e-02	1.59e-02	1.95e-02	-3.95e-02	-2.36e-03	-2.00e-02
## 191	8.57e-03	1.74e-03	-6.89e-03	-2.32e-03	-4.13e-03	-7.38e-04	2.76e-03
## 192	-4.48e-05	-4.80e-05	5.34e-05	2.47e-05	3.57e-05	-5.05e-05	-1.13e-04
## 193	1.79e-03	-2.03e-03	-3.46e-03	1.19e-03	-3.63e-03	-4.95e-03	5.30e-04
## 194	1.75e-02	-6.38e-03	-3.68e-03	-9.87e-03	-1.52e-03	4.38e-03	1.23e-02
## 195	6.29e-03	-4.31e-03	-8.00e-03	1.00e-03	-5.58e-04	-1.52e-02	-1.45e-02
## 196	1.38e-03	-2.34e-02	5.54e-03	1.86e-03	-4.91e-03	-2.13e-02	-8.49e-04
## 197	-7.80e-03	1.37e-03	1.71e-02	2.56e-03	-7.08e-03	-1.30e-02	8.35e-03
## 198	2.26e-02	-3.43e-02	-2.30e-02	-8.61e-03	4.87e-03	-1.90e-02	2.70e-03
## 199	5.73e-03	-3.68e-03	-6.66e-03	1.31e-04	6.25e-03	-2.24e-03	-1.45e-03
## 200	7.38e-03	-1.12e-02	-5.02e-03	-3.68e-03	2.38e-03	-8.99e-03	-1.34e-03
## 201	4.33e-03	-1.56e-03	-8.57e-03	6.16e-03	1.76e-03	-4.04e-03	-3.26e-03
## 202	-2.43e-02	4.04e-02	-2.45e-02	-1.22e-01	6.17e-02	2.24e-02	-7.64e-03
## 203	-1.99e-02	5.35e-03	-1.19e-02	2.92e-02	1.90e-02	-6.53e-02	-2.31e-02
## 204	1.05e-03	2.62e-03	2.19e-03	-3.63e-03	3.07e-04	6.47e-03	-1.81e-04
## 205	1.14e-02	-1.67e-02	-5.53e-03	8.59e-03	-1.35e-02	-2.34e-02	-9.53e-03
## 206	-9.70e-03	1.05e-02	-1.83e-02	-1.63e-02	1.29e-02	-3.00e-02	-1.29e-02
## 207	-7.54e-04	1.38e-02	-5.70e-03	4.34e-03	-2.98e-03	-2.16e-02	-8.79e-03
## 208	2.70e-04	-4.19e-03	-8.68e-03	4.03e-02	-1.87e-03	-2.28e-02	-4.84e-03
## 209	1.66e-02	-1.07e-01	2.17e-02	-2.09e-03	5.30e-02	6.40e-02	9.47e-03
## 210	-5.70e-03	-1.34e-02	-5.49e-04	-1.56e-03	-2.93e-03	-1.34e-02	5.79e-02
## 211	3.48e-03	5.79e-03	-1.22e-02	5.71e-03	5.05e-03	-1.44e-02	-5.19e-03
## 212	-4.89e-03	-1.10e-02	2.15e-02	2.34e-02	-1.75e-02	-2.92e-02	-8.60e-03
## 213	-4.45e-03	-2.91e-03	4.57e-03	-4.83e-03	4.38e-04	3.33e-03	3.00e-03
## 214	1.98e-02	3.94e-04	-8.98e-03	-2.08e-02	1.34e-02	2.07e-02	1.31e-03
## 215	-8.33e-03	-2.43e-03	2.50e-02	4.55e-02	-3.76e-02	-4.93e-02	-1.17e-02
## 216	-2.56e-02	3.44e-02	2.16e-02	7.48e-02	-1.39e-02	-5.10e-02	-2.05e-02
## 217	4.18e-03	8.36e-03	-1.56e-02	8.52e-03	5.76e-03	-7.41e-03	-8.49e-03
## 218	-2.17e-04	-5.03e-04	3.75e-04	-3.20e-04	2.96e-04	8.07e-06	1.08e-04
## 219	-2.52e-02	-5.07e-04	-2.68e-02	4.45e-03	1.61e-02	-6.30e-02	-2.68e-02
## 220	1.11e-02	3.03e-02	8.93e-05	3.50e-02	-1.38e-02	-2.47e-02	-3.21e-03
## 221	-2.37e-02	-2.45e-03	8.99e-03	4.49e-02	2.55e-03	-3.61e-02	-8.89e-03
## 222	7.69e-03	-3.41e-03	-7.09e-03	-3.89e-03	1.90e-03	8.11e-03	1.52e-03
## 223	-2.05e-04	-7.27e-03	6.87e-03	-4.11e-04	-3.30e-03	5.24e-03	2.17e-03
## 224	5.83e-04	-5.70e-03	6.18e-04	9.02e-03	1.38e-02	1.33e-02	3.27e-03
## 225	1.20e-02	-2.36e-02	-3.11e-03	1.36e-02	-4.74e-04	6.17e-03	1.70e-04
## 226	4.70e-04	-1.06e-02	-2.16e-03	1.09e-02	9.55e-04	-1.37e-02	-7.14e-03
## 227	-2.58e-03	4.24e-04	-8.98e-04	-4.37e-04	-3.09e-04	-3.61e-03	-8.53e-04
## 228	-4.27e-03	-1.75e-02	3.62e-02	-1.45e-02	-1.95e-02	-1.67e-02	-8.52e-03
## 229	-5.57e-03	-2.71e-03	-4.15e-03	-1.52e-03	1.08e-02	-2.00e-02	-6.26e-03
## 230	6.76e-03	-1.12e-02	-1.03e-02	-6.56e-03	-1.04e-03	-2.06e-02	1.51e-02

## 231	7.59e-03	-2.80e-02	-3.13e-03	1.55e-02	8.32e-03	3.47e-03	-1.02e-02
## 232	-8.21e-03	1.86e-03	6.01e-03	-1.20e-02	8.53e-03	6.70e-03	-6.79e-04
## 233	2.30e-03	4.64e-04	-2.48e-03	-1.59e-03	3.87e-04	2.70e-03	3.03e-05
## 234	8.60e-05	-3.05e-03	-1.85e-03	1.30e-04	2.77e-04	-5.55e-04	6.30e-04
## 235	1.46e-03	-1.50e-02	5.50e-04	6.90e-03	-5.56e-03	-5.83e-04	9.59e-04
## 236	-3.22e-04	3.23e-03	8.81e-04	8.79e-04	2.71e-04	2.32e-04	7.04e-04
## 237	2.27e-02	-6.17e-02	1.27e-02	1.96e-02	1.46e-02	3.46e-02	1.64e-03
## 238	-2.71e-02	-8.26e-02	6.29e-02	4.10e-02	2.86e-02	1.58e-02	2.60e-03
## 239	3.91e-03	-5.17e-03	-4.91e-03	1.24e-03	4.69e-04	1.42e-03	-2.22e-03
## 240	-1.01e-02	-3.35e-02	2.99e-02	5.85e-03	-1.51e-02	2.22e-02	8.50e-03
## 241	3.63e-03	-1.07e-02	1.39e-03	3.10e-02	-7.93e-03	-4.63e-02	-1.72e-02
## 242	-1.74e-03	1.96e-03	-5.05e-03	-4.63e-03	1.00e-03	-1.32e-02	-2.41e-03
## 243	-1.06e-02	5.69e-03	-1.38e-02	-1.52e-02	4.57e-03	-4.51e-02	-1.15e-02
## 244	2.64e-04	-2.46e-03	-7.05e-03	1.10e-02	4.89e-03	-1.99e-02	-5.01e-03
## 245	-9.85e-03	-6.41e-04	8.24e-03	-2.12e-03	-8.79e-03	-1.27e-02	-3.84e-03
## 246	-7.26e-03	-5.06e-02	3.04e-02	-2.26e-03	5.93e-03	2.44e-02	5.77e-03
## 247	2.27e-02	-1.87e-02	-3.29e-02	-1.53e-02	1.94e-02	8.04e-03	-1.10e-02
## 248	2.59e-03	-4.59e-03	-7.12e-04	4.41e-03	1.61e-03	3.95e-03	-1.07e-03
## 249	4.09e-03	4.67e-04	-4.22e-03	7.22e-03	2.25e-03	-6.25e-03	-3.49e-03
## 250	-1.04e-02	-8.99e-02	4.56e-02	-2.27e-02	5.46e-02	5.44e-02	1.80e-03
## 251	-2.68e-04	2.00e-04	2.76e-04	-1.14e-04	-6.24e-04	-4.82e-04	-3.09e-05
## 252	-4.62e-03	-1.05e-02	-4.58e-03	-3.59e-03	4.87e-03	-1.50e-02	6.01e-03
## 253	1.18e-02	-1.01e-02	-8.96e-03	-1.89e-03	-2.18e-03	2.29e-04	3.49e-03
## 254	1.17e-01	-2.60e-01	-1.02e-01	-6.24e-02	7.60e-02	1.38e-01	5.29e-03
## 255	2.43e-02	7.86e-02	-5.48e-03	-3.30e-02	-1.71e-02	6.09e-02	8.60e-02
## 256	2.90e-02	-2.42e-01	-1.12e-01	3.96e-02	1.67e-01	-5.45e-02	-1.11e-01
## 257	-1.86e-04	-1.37e-03	-1.22e-02	-8.46e-03	4.26e-03	-2.69e-02	-3.95e-03
## 258	-2.00e-02	-7.84e-03	4.26e-02	2.07e-02	-1.22e-02	-1.84e-02	-1.29e-02
## 259	-4.67e-03	-4.63e-03	7.30e-03	-1.03e-03	-9.29e-04	4.63e-03	3.42e-03
## 260	-2.98e-04	4.20e-05	6.50e-04	-1.25e-04	-3.61e-05	1.35e-04	-1.39e-03
## 261	2.43e-02	-1.12e-02	-2.41e-02	-5.93e-03	1.74e-02	-3.45e-02	-2.81e-02
## 262	-2.62e-02	-2.53e-02	2.20e-02	1.73e-02	-3.55e-04	-5.41e-03	9.23e-03
## 263	1.10e-02	2.44e-03	-1.17e-02	-2.32e-03	1.50e-03	-1.85e-02	-8.95e-03
## 264	-1.84e-02	-1.29e-01	-1.18e-01	1.04e-01	1.00e-01	-1.21e-01	-6.63e-02
## 265	1.41e-02	2.84e-02	-4.74e-02	-2.78e-02	2.30e-02	9.05e-04	-1.68e-02
## 266	9.14e-04	1.05e-03	4.85e-03	-4.99e-03	-3.49e-03	4.40e-05	8.94e-05
## 267	1.76e-02	-9.95e-03	-1.55e-02	-1.01e-02	5.90e-03	-5.54e-03	6.73e-03
## 268	1.87e-02	-5.20e-03	-1.50e-02	-1.33e-02	-2.09e-04	-1.70e-02	-6.94e-03
## 269	2.11e-03	1.18e-04	-1.84e-04	-2.42e-03	-2.71e-04	-1.36e-03	-2.00e-04
## 270	7.09e-03	-1.94e-03	-9.55e-03	3.14e-03	3.98e-03	1.65e-02	1.31e-02
## 271	-2.48e-02	-5.84e-02	3.86e-02	-9.15e-03	1.49e-02	5.04e-02	1.96e-02
## 272	-1.74e-03	-6.64e-04	-1.10e-03	6.72e-04	4.85e-04	-2.17e-03	-4.27e-04
## 273	2.92e-02	-7.53e-03	-3.63e-02	-2.04e-02	1.36e-02	-4.79e-02	-3.42e-02
## 274	-4.80e-04	2.85e-03	-4.59e-03	1.06e-02	2.66e-03	-9.15e-03	-5.59e-04
## 275	1.74e-02	-1.16e-03	-4.22e-03	-2.09e-03	-6.16e-03	-4.92e-03	-4.93e-03
## 276	9.46e-04	6.16e-04	-5.23e-04	-3.76e-04	-6.32e-04	2.00e-04	1.79e-04
## 277	1.36e-02	1.06e-02	-1.31e-02	2.79e-03	-4.70e-03	1.55e-03	-2.22e-03
## 278	-1.54e-02	-2.43e-02	6.83e-03	-1.01e-02	1.76e-02	-4.16e-03	2.90e-03
## 279	-5.00e-03	2.59e-03	-6.47e-03	-8.73e-04	-3.04e-03	-5.74e-02	-2.00e-02
## 280	1.04e-02	-4.65e-03	-1.39e-02	-9.30e-03	2.38e-04	-8.21e-03	1.02e-02
## 281	-4.78e-03	-1.15e-02	6.06e-03	3.96e-03	6.16e-03	-3.18e-03	-1.81e-04
## 282	1.31e-01	-1.22e+00	-5.93e-02	1.42e-01	1.61e-01	-1.13e-01	-1.54e-01
## 283	8.59e-02	-2.75e-02	-6.20e-02	-2.45e-02	2.11e-04	3.15e-02	-3.28e-03
## 284	8.96e-03	3.95e-03	-3.10e-03	6.47e-03	-5.12e-03	-1.04e-03	8.49e-03

## 285	-4.10e-03	-3.58e-02	-2.46e-03	2.37e-03	2.05e-02	1.87e-02	3.84e-03
## 286	3.03e-03	-1.32e-03	-5.71e-04	2.01e-03	4.41e-05	-5.54e-04	1.01e-04
## 287	-1.12e-02	-6.82e-03	1.48e-02	9.97e-03	-5.66e-03	-1.23e-02	4.23e-03
## 288	1.46e-03	-2.00e-03	1.26e-03	-7.92e-03	-3.85e-03	-1.97e-03	-1.90e-03
## 289	6.44e-03	-7.58e-03	-1.87e-02	-1.16e-02	1.65e-02	6.27e-03	9.84e-03
## 290	-1.15e-02	7.00e-03	2.00e-03	3.28e-02	2.07e-02	1.38e-03	-6.73e-03
## 291	3.23e-03	6.67e-04	-2.71e-03	-2.26e-04	-2.04e-03	-1.95e-03	-8.87e-04
## 292	1.91e-03	-1.54e-03	-8.56e-04	-8.12e-04	3.49e-04	1.05e-03	1.50e-03
## 293	7.22e-03	2.39e-02	-9.07e-03	-1.71e-02	-1.25e-02	3.77e-03	-3.42e-04
## 294	-3.26e-03	2.06e-03	7.49e-04	-3.67e-03	-7.62e-04	9.78e-04	-2.44e-03
## 295	1.12e-03	5.26e-02	-1.17e-02	-4.18e-02	-1.28e-02	5.46e-03	-4.42e-03
## 296	-1.13e-02	6.01e-03	-6.65e-03	-6.69e-03	1.65e-02	2.26e-03	-1.82e-02
## 297	2.34e-03	-9.92e-03	5.38e-03	-1.56e-04	-2.06e-02	-1.41e-02	-5.18e-03
## 298	2.24e-02	2.66e-04	1.45e-02	-1.88e-03	-2.93e-02	1.65e-03	-3.07e-02
## 299	1.98e-02	-1.16e-02	8.28e-04	-7.04e-02	-1.90e-02	5.75e-03	-1.03e-02
## 300	-7.94e-04	-1.24e-03	2.76e-04	-1.60e-03	1.91e-03	-2.02e-03	-2.17e-02
## 301	1.28e-03	3.20e-03	-1.71e-03	-7.68e-04	-3.37e-03	2.42e-03	1.59e-03
## 302	-6.15e-04	1.39e-04	-4.11e-04	1.12e-03	2.15e-03	2.56e-03	7.19e-04
## 303	2.08e-03	-2.25e-02	-3.23e-03	-2.68e-03	8.90e-03	-1.59e-03	-5.63e-03
## 304	-1.50e-03	-1.11e-03	3.07e-04	1.34e-03	2.01e-03	7.15e-04	2.64e-04
## 305	5.56e-03	-1.77e-02	-5.33e-03	1.37e-02	1.52e-02	6.10e-03	-5.09e-03
## 306	-5.38e-03	-2.38e-02	1.42e-03	2.69e-03	3.94e-03	7.56e-03	1.08e-03
## 307	8.23e-03	-1.90e-02	-2.21e-02	-5.83e-03	1.77e-02	2.75e-03	-4.53e-03
## 308	4.68e-04	-5.95e-03	7.15e-03	-4.48e-03	-9.06e-03	5.25e-04	4.28e-03
## 309	1.32e-02	-2.94e-03	-5.84e-03	2.17e-03	-1.32e-02	-1.77e-03	2.50e-03
## 310	-4.12e-03	1.47e-03	2.37e-03	4.70e-03	3.84e-03	2.25e-03	1.50e-03
## 311	3.68e-02	-7.79e-02	-3.17e-02	1.37e-02	1.77e-02	3.56e-02	-2.53e-04
## 312	-1.92e-02	-3.38e-02	3.88e-02	6.01e-03	-1.06e-02	-1.09e-02	1.27e-02
## 313	1.01e-02	4.83e-03	-1.00e-02	7.03e-03	-3.95e-03	-5.77e-03	2.28e-03
## 314	1.23e-03	-2.03e-02	6.43e-03	6.33e-03	1.80e-02	1.06e-02	-3.52e-03
## 315	-5.86e-04	2.32e-03	-8.47e-04	2.43e-03	-2.86e-04	-1.89e-03	-4.74e-04
## 316	-2.98e-03	-1.03e-03	5.72e-04	7.55e-03	3.35e-03	2.25e-03	-5.75e-05
## 317	2.46e-05	-1.00e-02	-1.14e-02	1.59e-02	-9.00e-04	-1.70e-02	-1.98e-02
## 318	5.63e-04	7.42e-04	2.14e-05	6.87e-04	-1.03e-03	-3.43e-04	2.60e-04
## 319	-1.45e-02	-1.73e-02	7.38e-03	2.92e-02	2.32e-02	1.26e-02	5.15e-03
## 320	5.83e-04	-1.52e-02	2.91e-04	1.41e-02	4.72e-03	6.25e-03	1.52e-03
## 321	3.56e-03	4.93e-03	-1.24e-02	1.09e-02	-3.44e-03	-1.06e-02	-7.22e-04
## 322	-1.62e-03	-5.21e-04	-4.10e-03	-3.14e-03	1.11e-02	4.35e-03	-3.59e-03
## 323	-2.27e-04	1.81e-03	-2.46e-03	4.82e-03	-2.49e-03	-3.03e-03	5.29e-04
## 324	-2.08e-03	1.66e-03	-1.25e-03	1.98e-03	8.72e-03	9.62e-03	2.14e-03
## 325	2.09e-03	-2.01e-03	-5.40e-04	1.19e-02	-2.88e-03	-1.70e-03	3.85e-04
## 326	-7.37e-03	7.53e-02	1.33e-02	-6.92e-02	-1.66e-02	-1.17e-02	4.37e-03
## 327	-2.89e-02	-2.32e-02	2.43e-02	3.79e-02	1.39e-02	1.20e-02	1.06e-02
## 328	-4.35e-03	2.36e-03	-3.07e-03	9.25e-04	9.44e-03	1.26e-04	-1.73e-03
## 329	3.11e-03	1.35e-02	2.73e-03	-2.44e-02	-9.15e-03	1.21e-02	5.59e-03
## 330	-1.93e-03	-6.58e-03	-1.35e-03	-3.03e-03	6.99e-03	4.08e-03	-4.34e-03
## 331	-6.70e-04	-2.30e-03	-5.11e-03	-7.35e-04	4.19e-03	-2.50e-03	-3.01e-03
## 332	2.14e-03	3.48e-03	-1.19e-03	3.33e-04	-1.77e-03	-2.64e-04	6.26e-05
## 333	-4.17e-03	6.06e-03	8.54e-03	-2.40e-02	-1.71e-02	9.34e-03	5.56e-03
## 334	-6.90e-04	-2.98e-03	3.79e-03	6.45e-05	-3.53e-03	-8.93e-04	-2.11e-03
## 335	1.78e-02	-6.90e-03	2.47e-03	-9.15e-03	-2.24e-02	-1.09e-02	-3.06e-03
## 336	1.28e-03	-1.25e-03	-4.70e-04	-2.17e-04	1.21e-03	1.33e-03	-9.18e-04
## 337	-7.32e-03	-5.75e-02	-2.55e-03	8.78e-03	4.05e-02	2.34e-02	1.65e-03
## 338	4.69e-03	2.79e-03	-7.55e-03	4.32e-03	-7.63e-03	-5.94e-03	6.46e-04

## 339	8.18e-03	-9.23e-02	-1.71e-02	8.21e-03	2.84e-02	2.79e-02	-3.31e-03
## 340	6.63e-03	6.47e-03	3.25e-03	3.94e-03	-1.36e-02	-4.64e-03	-3.75e-03
## 341	-8.43e-03	-9.37e-03	5.65e-04	-3.02e-03	1.70e-02	9.03e-03	1.50e-03
## 342	-2.20e-03	-5.23e-02	-2.11e-02	-9.52e-03	3.73e-02	8.01e-03	-1.45e-02
## 343	1.40e-02	-8.99e-04	-9.85e-03	4.56e-03	-1.07e-02	-9.50e-03	-2.08e-03
## 344	-3.97e-03	4.78e-03	-1.40e-02	2.94e-02	3.80e-02	1.20e-02	7.31e-04
## 345	9.69e-03	-1.78e-03	-4.76e-03	2.51e-03	-8.58e-03	-1.26e-03	2.26e-03
## 346	-4.09e-02	-2.67e-02	3.85e-02	3.53e-03	1.69e-02	9.46e-03	3.10e-03
## 347	-1.23e-03	-6.74e-03	8.64e-03	-3.45e-03	-4.08e-03	5.03e-03	-1.45e-02
## 348	2.20e-02	2.13e-02	-2.42e-02	-2.94e-04	-5.50e-03	-4.63e-03	-2.78e-03
## 349	2.76e-03	2.58e-03	-2.39e-03	-3.13e-03	-3.19e-03	-2.15e-03	-9.41e-04
## 350	5.82e-04	1.36e-03	5.09e-05	-3.52e-03	-2.70e-03	-7.88e-04	-3.23e-04
## 351	1.61e-02	-2.55e-02	-1.17e-02	-4.47e-04	-7.89e-03	-1.77e-02	-6.97e-03
## 352	5.28e-03	-7.83e-03	-1.50e-02	1.51e-02	1.97e-02	1.36e-02	4.70e-03
## 353	-7.69e-03	-1.21e-03	-3.55e-03	2.15e-03	9.28e-03	5.91e-03	4.32e-04
## 354	1.33e-03	3.97e-03	6.68e-04	4.21e-03	-3.00e-03	1.66e-03	7.98e-04
## 355	-2.17e-03	-1.65e-03	6.79e-04	5.07e-03	4.56e-03	2.09e-04	-1.49e-04
## 356	-2.96e-03	1.28e-03	1.29e-03	6.52e-03	4.67e-03	2.32e-03	8.70e-04
## 357	2.34e-03	9.08e-04	1.63e-03	1.96e-04	-8.54e-03	7.87e-04	4.06e-03
## 358	-1.75e-03	9.03e-04	-1.37e-03	-1.20e-05	4.10e-03	1.62e-03	-5.34e-04
## 359	-2.95e-03	-2.81e-03	2.18e-03	-2.10e-03	1.03e-03	1.86e-03	3.51e-04
## 360	6.22e-04	-1.08e-02	-3.43e-03	4.28e-04	1.09e-02	5.38e-03	-7.24e-04
## 361	-3.10e-02	-1.61e-02	-4.66e-03	3.02e-02	6.17e-02	1.16e-02	1.30e-02
## 362	3.23e-03	-3.70e-03	4.55e-05	8.11e-04	-6.24e-03	-3.14e-03	8.29e-04
## 363	4.74e-04	8.55e-06	-1.83e-04	-4.90e-05	-4.31e-04	-1.86e-04	1.39e-05
## 364	-6.64e-03	-4.24e-03	1.83e-03	-1.57e-03	3.97e-03	4.07e-03	-1.49e-03
## 365	-4.85e-04	1.52e-03	-1.12e-03	3.24e-03	-5.52e-04	-1.55e-03	-1.03e-02
## 366	6.25e-03	-6.32e-03	-3.00e-03	-9.91e-04	-1.11e-02	5.40e-03	-9.25e-04
## 367	4.89e-03	-4.86e-03	-3.51e-03	5.11e-04	-1.67e-03	-2.97e-03	-1.36e-03
## 368	2.06e-02	1.51e-03	-1.02e-02	-3.03e-02	-5.08e-04	3.28e-03	-2.31e-03
## 369	-9.00e-04	-8.34e-04	-4.29e-03	-3.49e-03	2.27e-03	-1.01e-03	2.52e-03
## 370	-4.71e-03	1.68e-03	7.84e-03	3.76e-03	-1.74e-02	-7.56e-03	-1.90e-03
## 371	-1.32e-02	6.88e-03	7.17e-03	2.05e-02	-1.47e-02	-1.02e-03	1.20e-02
## 372	-7.45e-03	6.51e-03	7.85e-03	1.88e-02	-4.33e-03	-1.55e-02	4.35e-03
## 373	7.65e-03	-1.01e-02	-4.88e-03	3.07e-03	2.39e-03	-7.30e-03	2.81e-05
## 374	4.95e-04	-1.31e-04	1.12e-03	-2.15e-03	-3.70e-04	-1.86e-04	-7.74e-05
## 375	6.84e-04	9.55e-04	-4.40e-04	-5.38e-04	-5.08e-05	8.85e-04	-6.77e-04
## 376	-1.14e-04	3.66e-03	1.06e-02	-1.40e-02	-1.79e-02	-1.52e-02	2.19e-03
## 377	1.02e-03	-2.07e-03	3.05e-03	-1.97e-03	-3.65e-03	1.99e-03	-7.88e-04
## 378	1.99e-03	-6.81e-03	3.18e-04	-7.07e-04	1.90e-03	-9.37e-04	-1.24e-03
## 379	2.91e-03	1.22e-04	8.92e-03	-3.84e-03	-7.97e-03	-4.74e-03	2.88e-03
## 380	2.55e-03	8.12e-04	-1.28e-03	3.97e-03	-1.25e-03	-2.81e-03	1.92e-03
## 381	6.41e-03	-5.66e-03	-2.17e-03	-1.19e-04	-5.77e-03	-1.21e-02	-8.62e-04
## 382	9.74e-04	-3.35e-03	1.36e-03	-5.80e-04	-4.47e-04	-4.15e-04	1.22e-03
## 383	4.93e-04	-1.19e-03	2.24e-03	-1.01e-04	-1.87e-03	-6.26e-04	1.88e-04
## 384	-1.58e-03	3.44e-03	-1.97e-03	5.08e-03	2.89e-03	-2.48e-04	-5.09e-04
## 385	1.21e-02	-4.79e-03	-5.98e-03	-3.16e-03	-1.85e-02	-2.62e-02	6.50e-03
## 386	8.48e-03	-4.32e-03	4.23e-03	2.65e-02	-1.71e-02	-9.12e-03	2.64e-03
## 387	1.16e-02	-5.80e-04	-2.31e-02	-9.06e-03	9.54e-03	7.61e-03	-4.94e-02
## 388	5.59e-03	-1.39e-03	-1.18e-03	1.74e-03	-4.98e-03	-3.03e-03	8.66e-04
## 389	-1.54e-03	-4.79e-04	2.07e-03	5.44e-04	-1.05e-03	6.33e-04	-7.48e-04
## 390	-2.00e-04	-1.67e-03	5.20e-04	1.07e-04	6.00e-04	-3.89e-04	1.12e-03
## 391	-1.11e-04	-2.42e-03	3.41e-03	2.33e-03	-1.10e-03	-7.32e-04	-1.28e-03
## 392	1.62e-02	-1.51e-02	-8.36e-03	-3.64e-04	-5.48e-03	-2.09e-02	5.49e-03

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## 393  9.55e-03 -2.07e-02  4.63e-03 -1.53e-02 -2.71e-03  2.04e-02 -2.12e-02
## 394 -8.36e-03 -1.10e-03  4.04e-03 -1.26e-02  8.82e-03 -1.53e-02 -3.71e-02
## 395 -2.04e-03 -3.89e-03  4.33e-03 -2.01e-03 -1.66e-03 -2.11e-03  1.90e-03
## 396  7.17e-03 -4.57e-03 -7.05e-03 -1.95e-03  2.52e-03 -7.76e-03 -8.41e-03
## 397  1.17e-03 -4.45e-03 -1.11e-03  2.07e-04  1.29e-03 -1.27e-03 -2.19e-03
## 398 -8.63e-04 -2.93e-03  4.62e-03 -4.31e-03 -2.02e-03 -2.26e-03  3.18e-03
## 399  7.80e-04 -7.21e-04 -1.45e-04  1.62e-04 -8.51e-05  4.72e-04  2.46e-04
## 400  6.11e-03 -2.83e-03  1.05e-03  1.93e-03 -4.29e-03 -4.28e-03  7.79e-04
## 401  7.41e-04 -9.85e-05 -1.10e-03 -6.57e-04  3.17e-03 -2.50e-03 -9.49e-04
## 402 -3.66e-05  4.35e-04 -7.33e-04 -2.32e-04  1.02e-03 -2.32e-04  9.32e-05
## 403  6.75e-04  4.36e-04  2.03e-03  3.64e-04 -1.41e-03  4.55e-05 -4.25e-04
## 404  2.09e-04  1.68e-03 -1.44e-03 -2.41e-03  2.46e-03 -2.83e-03 -2.49e-03
## 405 -8.57e-04  4.91e-03  6.07e-03  1.42e-02  4.11e-03 -1.56e-02 -5.32e-03
## 406  1.69e-04  8.98e-04 -2.95e-04  2.68e-06  8.96e-04 -8.31e-04 -1.00e-03
## 407 -4.39e-03 -1.63e-02  4.93e-03 -9.29e-03 -8.15e-03  1.60e-02  7.12e-03
## 408  8.92e-03 -4.78e-03 -3.70e-03 -5.43e-03 -1.41e-02  2.67e-03  3.22e-03
## 409 -1.29e-03 -3.17e-03  1.42e-03 -2.10e-03 -5.38e-03 -3.37e-03  4.96e-04
## 410 -5.95e-03 -5.91e-03 -3.76e-03 -2.11e-02  3.53e-03 -3.90e-03 -1.79e-03
## 411  1.09e-02  9.10e-03 -3.60e-02 -2.42e-02  3.13e-03 -9.36e-04  1.31e-03
## 412 -7.57e-03 -1.25e-02  1.06e-02 -2.76e-02 -2.39e-02  3.29e-02  1.65e-02
## 413 -1.16e-02  3.65e-04  9.45e-03  3.00e-03 -1.36e-03  8.27e-03 -4.26e-03
## 414 -5.00e-04  1.20e-03  3.36e-03  5.21e-03  9.08e-04  1.06e-03 -1.54e-05
## 415 -1.57e-02 -2.96e-03 -2.32e-03 -3.87e-03 -9.78e-03 -8.90e-03 -1.55e-02
## 416  1.39e-02 -1.28e-02 -5.90e-03 -1.49e-02 -1.41e-03  1.36e-02  8.78e-04
## 417  3.70e-03 -5.01e-04 -5.12e-03  4.12e-03  5.57e-03 -1.05e-02 -6.37e-03
## 418 -9.05e-03  3.77e-03  2.69e-03  1.99e-03 -3.38e-03 -3.90e-03  3.17e-03
## 419 -1.21e-02  2.86e-03  1.76e-02 -1.58e-02 -1.25e-02  2.25e-02  1.14e-02
## 420 -2.21e-04 -7.94e-04  4.08e-03  1.31e-02 -7.44e-03  3.46e-05  2.12e-03
## 421 -2.58e-04  4.68e-04 -1.63e-04  6.39e-04  2.24e-04 -1.28e-04 -1.61e-03
## 422  3.22e-02 -4.48e-02 -2.40e-02 -7.91e-02 -6.16e-03  5.89e-02  1.05e-02
## 423  8.28e-03  1.00e-02  5.56e-03  8.16e-03  5.29e-03 -4.46e-02 -1.67e-02
## 424 -2.98e-03 -4.58e-03  6.12e-03 -6.50e-03 -6.62e-03  6.92e-03  6.66e-03
## 425  4.74e-03  1.59e-02  6.29e-03 -2.13e-02 -2.60e-02  1.87e-02  6.37e-03
## 426  1.27e-03  2.36e-03 -3.11e-03  6.30e-03  7.86e-03 -6.08e-03 -5.31e-03
## 427 -4.14e-03  2.47e-03 -3.20e-03  4.12e-03 -5.77e-03  4.55e-03  6.64e-03
## 428  3.12e-03  3.76e-03 -8.74e-04 -1.94e-02 -7.35e-03  3.00e-03  4.05e-03
## 429 -2.72e-03 -1.48e-02  3.18e-03 -1.97e-03 -4.35e-03 -4.71e-03 -2.10e-04
## 430 -4.07e-03 -1.84e-03  5.31e-03  1.01e-03 -2.90e-03  2.29e-04  1.83e-03
## 431 -9.08e-05  8.53e-04 -1.24e-03 -1.97e-04  1.31e-03  3.45e-03  1.10e-03
## 432  3.95e-03 -5.65e-03 -1.61e-03 -3.48e-03 -1.98e-03  1.88e-03  1.60e-03
## 433  1.46e-04 -2.94e-03  6.84e-04 -7.17e-04 -3.02e-03  3.14e-04  1.02e-03
## 434  7.15e-03  1.79e-03 -7.48e-03 -6.49e-03 -1.44e-02 -6.37e-03 -1.68e-03
## 435  5.33e-03 -6.15e-03 -8.13e-03 -5.32e-03  8.00e-03  7.30e-03  4.90e-03
## 436 -5.30e-04 -5.63e-03  6.16e-03 -2.04e-03 -1.67e-02  2.62e-02  1.26e-02
## 437  4.55e-03 -6.78e-03  3.56e-03 -1.22e-03 -1.73e-02 -3.61e-03 -3.83e-03
## 438  3.27e-04  1.26e-03 -2.55e-03  3.50e-03  4.86e-03  7.69e-04 -1.13e-03
## 439  1.95e-03  7.40e-03  4.52e-03  2.00e-03 -4.69e-03  3.98e-03  1.88e-03
## 440  3.22e-02  2.65e-02 -2.60e-02  6.90e-03 -1.39e-02 -1.85e-02 -7.05e-03
## 441 -1.88e-03  7.90e-03 -1.24e-02 -4.88e-02  3.78e-03  1.21e-02  5.22e-04
## 442  7.35e-05  1.07e-03 -8.03e-04  1.84e-02  1.19e-02 -8.78e-03  1.94e-02
## 443  9.29e-04  1.52e-04  2.41e-04  7.43e-04 -1.44e-03  2.55e-03  4.69e-04
## 444 -4.70e-03 -5.97e-03  9.79e-03  6.59e-04  3.75e-03  1.45e-02  8.34e-03
## 445 -3.00e-03 -3.78e-04  2.55e-03  1.11e-03  8.05e-04  4.28e-03 -3.93e-03
## 446 -8.65e-03 -3.92e-04  1.52e-02 -1.24e-02  7.16e-03  3.13e-02  9.23e-03

```



## 447	2.45e-03	3.57e-03	1.38e-02	-4.86e-02	-3.09e-02	5.67e-02	2.79e-02
## 448	2.03e-02	4.68e-02	-7.58e-02	5.59e-02	-1.28e-02	-6.00e-02	9.05e-03
## 449	-3.95e-03	2.14e-04	4.17e-03	2.33e-04	3.97e-03	-5.32e-03	-4.29e-03
## 450	1.69e-03	-5.40e-05	-3.81e-04	-2.38e-03	-4.24e-03	-2.90e-03	-1.66e-04
## 451	-5.80e-03	1.94e-03	1.14e-02	1.08e-02	-5.99e-03	-2.04e-02	-8.95e-03
## 452	-2.03e-05	-8.50e-05	6.88e-05	-2.70e-04	-3.96e-04	-1.10e-03	3.35e-04
## 453	1.87e-02	-2.73e-02	-2.11e-02	-2.48e-02	-1.51e-02	-7.42e-03	-5.14e-03
## 454	7.30e-03	6.30e-03	-9.07e-03	-1.37e-02	1.78e-02	1.38e-02	1.21e-04
## 455	4.97e-03	4.88e-03	-1.51e-03	4.88e-03	-9.82e-03	-8.34e-04	-9.06e-04
## 456	1.24e-02	-6.36e-03	-7.04e-02	1.10e-02	7.52e-02	6.82e-02	1.89e-02
## 457	6.91e-03	-3.90e-03	-6.52e-03	2.27e-03	-1.15e-02	-3.23e-03	-6.35e-03
## 458	-9.31e-03	1.59e-02	-2.27e-02	6.43e-03	-4.18e-02	-1.51e-02	-2.53e-02
## 459	-4.13e-03	1.17e-04	3.95e-03	4.15e-03	1.90e-03	-2.06e-03	1.11e-03
## 460	-1.80e-02	8.84e-03	1.95e-02	2.25e-02	1.41e-02	-2.76e-03	1.29e-02
## 461	-3.41e-02	4.02e-03	2.20e-02	3.38e-02	1.72e-02	-2.09e-02	1.74e-03
## 462	-2.14e-02	-1.72e-02	2.56e-02	5.82e-02	-3.56e-02	-4.09e-02	-1.69e-02
## 463	-5.35e-04	9.83e-03	-3.83e-03	-1.63e-03	4.88e-03	3.17e-03	2.97e-03
## 464	-7.96e-03	6.87e-02	-6.42e-03	-7.34e-02	5.05e-02	4.22e-02	7.19e-03
## 465	-3.19e-02	2.66e-02	2.52e-02	7.47e-03	9.42e-03	1.59e-02	3.25e-03
## 466	8.62e-03	4.61e-02	-2.63e-02	4.03e-02	-6.29e-02	5.05e-03	-1.09e-02
## 467	-1.41e-02	-3.54e-02	1.91e-02	4.44e-02	-1.56e-02	-1.12e-02	-2.13e-03
## 468	2.07e-03	-6.63e-03	1.91e-03	-2.53e-03	8.29e-03	1.87e-03	4.07e-04
## 469	9.59e-02	-2.47e-02	-4.79e-02	-4.36e-03	-7.23e-02	1.96e-02	-1.96e-02
## 470	-3.59e-03	1.53e-03	-3.25e-03	1.07e-02	6.89e-03	-5.36e-03	7.33e-04
## 471	2.77e-02	1.84e-02	-2.77e-02	-3.57e-02	2.18e-02	7.63e-03	-4.45e-03
## 472	-5.12e-02	6.85e-02	1.15e-02	5.13e-02	-6.16e-02	-3.37e-02	6.22e-03
## 473	4.82e-03	-4.20e-03	-5.97e-03	-1.03e-02	7.66e-03	7.51e-03	2.18e-03
## 474	8.85e-02	7.52e-02	-9.19e-02	-3.12e-02	7.61e-02	4.47e-02	-2.27e-03
## 475	4.80e-03	1.49e-02	-4.58e-03	-1.10e-02	1.03e-02	7.34e-03	5.09e-03
## 476	7.38e-02	7.51e-02	-5.29e-02	-6.47e-02	4.86e-02	2.76e-02	-1.77e-03
## 477	-1.50e-04	8.32e-03	-1.86e-03	7.29e-04	1.45e-02	-3.02e-03	5.67e-03
## 478	5.59e-02	1.84e-02	-5.46e-02	-6.88e-02	6.03e-02	3.03e-02	-9.49e-05
## 479	-8.32e-04	7.62e-04	5.23e-04	4.25e-04	1.38e-04	1.65e-04	2.54e-04
## 480	1.16e-02	-3.53e-02	-6.61e-03	-3.39e-02	4.11e-02	3.11e-02	9.99e-03
## 481	1.22e-03	-1.49e-02	1.87e-02	-9.37e-04	1.49e-02	1.02e-02	6.77e-03
## 482	-1.55e-03	-1.80e-03	2.34e-03	2.08e-03	2.35e-03	7.73e-04	3.46e-03
## 483	3.23e-02	1.22e-02	-3.36e-02	-1.73e-02	-1.27e-02	-1.87e-02	-1.22e-02
## 484	1.81e-02	-5.61e-03	2.30e-04	9.26e-02	-7.94e-02	-2.12e-02	-1.57e-02
## 485	5.88e-04	1.53e-03	-7.55e-04	-1.20e-03	4.72e-04	1.50e-03	5.22e-04
## 486	5.17e-03	-3.27e-02	-1.60e-02	1.16e-02	-1.05e-02	-3.58e-03	-1.29e-02
## 487	-3.48e-02	4.69e-02	-3.71e-03	-3.57e-02	4.69e-02	1.11e-02	2.23e-02
## 488	6.50e-03	-1.07e-03	-2.38e-03	1.05e-03	-6.94e-03	-3.45e-04	-2.44e-03
## 489	-8.49e-04	-4.22e-03	-7.38e-03	-6.71e-03	-1.08e-02	2.97e-03	-2.50e-03
## 490	4.19e-03	7.44e-03	1.36e-03	6.01e-03	6.47e-03	8.03e-04	1.37e-03
## 491	-4.32e-03	2.71e-03	7.10e-03	1.55e-02	1.56e-02	3.87e-03	1.97e-02
## 492	3.89e-02	2.02e-02	2.34e-02	3.16e-03	-6.28e-02	-6.06e-02	-1.62e-02
## 493	1.99e-03	-6.41e-03	1.16e-03	-1.32e-03	4.48e-03	1.31e-03	8.51e-04
## 494	8.10e-02	5.46e-02	-7.71e-02	-5.90e-02	6.63e-02	1.58e-02	-1.30e-02
## 495	7.84e-02	6.36e-03	-6.15e-02	-5.55e-02	5.11e-02	-6.86e-02	-4.74e-02
## 496	-3.00e-02	1.05e-02	3.00e-02	2.99e-02	1.15e-02	-5.78e-03	1.29e-02
## 497	1.11e-03	4.63e-02	1.51e-02	-3.16e-02	-1.39e-03	5.58e-03	1.15e-02
## 498	-7.15e-04	-8.94e-05	5.75e-04	5.23e-04	9.36e-04	-5.39e-04	3.39e-04
## 499	2.05e-02	-2.36e-02	-8.33e-03	-2.59e-02	2.22e-02	2.11e-02	4.09e-03
## 500	-2.11e-03	-8.52e-04	2.11e-03	-2.41e-04	2.86e-03	5.24e-04	3.83e-03

## 501	1.12e-03	-8.29e-04	6.98e-04	1.88e-03	-4.84e-04	2.52e-03	1.16e-03
## 502	-1.14e-04	-4.59e-05	2.40e-04	-5.91e-05	-1.40e-04	1.34e-04	1.62e-04
## 503	-4.71e-03	2.45e-03	5.81e-03	-2.85e-03	6.29e-03	-9.23e-04	-5.77e-03
## 504	-7.80e-04	1.87e-03	4.52e-03	2.89e-03	-4.97e-03	-5.83e-03	-1.87e-03
## 505	-1.45e-02	-7.61e-03	2.68e-02	2.09e-02	1.86e-02	-2.51e-02	-1.42e-02
## 506	-3.13e-03	5.29e-03	5.93e-04	1.07e-02	3.56e-04	1.38e-03	1.76e-03
## 507	8.45e-04	-4.43e-03	1.02e-03	-9.06e-03	-4.95e-03	-1.30e-03	5.81e-03
## 508	-2.99e-04	-9.15e-03	9.76e-03	2.44e-03	1.24e-02	1.16e-02	-1.30e-03
## 509	-1.05e-02	1.11e-02	1.18e-02	9.98e-03	-1.79e-02	-1.83e-02	-1.50e-02
## 510	1.76e-02	-4.58e-02	1.31e-02	1.08e-02	-1.39e-02	-3.59e-02	-1.15e-02
## 511	-4.13e-04	2.80e-03	-1.71e-03	-1.08e-03	1.75e-03	-1.31e-03	-1.28e-03
## 512	-1.46e-02	-3.03e-02	4.39e-02	4.05e-02	-3.12e-02	-7.75e-02	-2.16e-02
## 513	6.08e-03	-7.84e-03	5.60e-03	-2.06e-03	-5.17e-04	-3.02e-03	-6.09e-03
## 514	3.26e-02	5.47e-02	-4.66e-02	-6.18e-02	-3.57e-02	7.68e-02	2.57e-02
## 515	3.18e-02	-7.45e-03	-5.01e-02	-1.50e-02	1.41e-02	5.61e-02	9.48e-03
## 516	6.84e-05	6.23e-04	-7.86e-04	1.26e-03	1.78e-03	9.98e-04	3.73e-04
## 517	1.09e-02	-4.87e-03	-8.80e-03	-9.49e-03	-1.26e-02	1.07e-02	6.40e-03
## 518	-7.95e-03	-2.78e-02	5.39e-02	5.91e-03	-1.42e-03	-5.61e-02	-3.25e-02
## 519	-1.30e-03	3.26e-03	-3.28e-03	5.08e-03	5.13e-04	-2.50e-03	3.74e-03
## 520	1.46e-02	-2.82e-02	2.41e-02	-2.00e-02	-9.59e-03	8.67e-03	-3.91e-03
## 521	-2.37e-03	2.74e-04	4.23e-03	-8.30e-03	2.10e-03	5.71e-03	7.51e-03
## 522	-1.32e-02	-9.05e-02	8.40e-02	-2.37e-02	-4.66e-02	-9.85e-02	-4.06e-02
## 523	-3.14e-02	-1.75e-02	4.52e-02	-1.36e-02	-1.88e-02	-1.44e-02	6.34e-03
## 524	3.49e-02	2.73e-02	-4.84e-02	2.04e-02	-5.14e-02	-7.79e-02	1.13e-02
## 525	1.99e-02	8.53e-03	-3.07e-03	-9.17e-04	-3.80e-02	1.49e-02	4.44e-03
## 526	-1.67e-02	8.18e-03	3.58e-02	1.67e-03	-4.17e-02	1.39e-02	1.46e-02
## 527	-6.32e-04	2.80e-04	4.99e-03	8.85e-04	8.83e-03	-4.79e-03	-5.05e-03
## 528	4.56e-03	-3.88e-04	-1.69e-03	-5.99e-03	-6.29e-05	3.66e-04	-2.43e-03
## 529	-3.03e-03	-2.72e-02	-1.07e-03	-1.58e-02	3.39e-02	2.23e-02	1.32e-03
## 530	3.51e-03	3.14e-03	-4.09e-03	-3.83e-03	2.33e-03	-2.39e-03	-5.15e-03
## 531	4.15e-03	4.49e-03	-7.91e-04	8.09e-03	2.65e-03	4.64e-03	-1.00e-03
## 532	-1.39e-03	1.43e-03	-2.22e-04	-7.24e-04	1.81e-03	1.42e-04	-2.95e-04
## 533	4.31e-03	-1.20e-02	-4.90e-03	-1.82e-02	1.31e-02	1.78e-02	-1.17e-03
## 534	2.72e-03	-3.72e-03	-1.14e-03	-1.78e-03	-3.33e-03	-2.17e-03	-1.42e-03
## 535	2.51e-03	-9.16e-03	1.32e-02	-2.11e-03	-4.12e-03	-2.97e-03	-5.32e-03
## 536	3.99e-04	-3.67e-04	-4.08e-04	-5.67e-04	-8.87e-05	2.31e-04	1.56e-04
## 537	3.20e-02	1.27e-02	-5.86e-03	3.86e-02	-5.53e-03	-4.04e-02	-5.72e-02
## 538	-2.70e-03	3.36e-04	-3.15e-03	1.57e-03	1.54e-03	-4.08e-03	-6.14e-04
## 539	3.40e-05	6.31e-04	3.51e-04	-1.68e-03	-1.07e-03	-1.97e-03	-9.60e-04
## 540	9.61e-03	2.00e-02	-7.66e-03	-4.26e-03	-1.73e-02	1.13e-02	2.77e-03
## 541	-1.59e-03	9.35e-04	3.22e-03	1.44e-03	-1.32e-03	-5.13e-03	-1.90e-03
## 542	1.73e-03	-1.84e-03	-1.25e-03	-2.74e-03	-1.60e-03	2.10e-03	5.52e-04
## 543	8.57e-03	-1.67e-02	-3.72e-03	8.08e-03	2.57e-03	-7.13e-03	-2.58e-03
## 544	3.69e-02	3.73e-03	-1.06e-02	-8.56e-03	-1.83e-02	3.49e-02	1.79e-03
## 545	-1.03e-02	-1.99e-02	2.39e-02	7.64e-03	7.26e-03	-1.68e-02	-4.10e-03
## 546	4.35e-03	2.66e-03	-4.60e-03	1.18e-03	-1.85e-03	8.95e-04	4.12e-05
## 547	-3.06e-03	3.05e-03	3.09e-03	-3.06e-04	2.27e-03	3.53e-03	1.29e-03
## 548	3.13e-02	-3.87e-02	-1.01e-02	4.00e-03	7.78e-03	-1.53e-02	-3.13e-02
## 549	-2.23e-02	-1.58e-02	5.08e-02	2.04e-02	-7.91e-03	3.01e-02	3.59e-02
## 550	-9.63e-04	1.86e-02	-5.81e-03	-2.71e-02	-2.81e-03	-4.27e-03	-1.00e-02
## 551	-6.49e-03	-1.29e-02	2.28e-02	3.48e-03	-1.72e-03	1.14e-03	7.87e-03
## 552	-5.10e-03	6.11e-03	-7.73e-03	4.44e-02	2.05e-02	9.20e-03	1.35e-02
## 553	2.31e-02	-1.70e-02	-4.05e-03	-1.43e-02	1.58e-03	-4.20e-03	-1.40e-02
## 554	1.78e-02	-4.57e-02	-1.27e-02	-4.75e-02	9.33e-03	-1.12e-02	-1.89e-02

## 555	5.78e-03	1.16e-02	-6.28e-03	1.09e-02	-2.02e-03	-7.14e-03	-1.09e-03
## 556	-2.62e-02	2.70e-03	3.72e-03	-3.36e-02	4.59e-02	-3.98e-03	-1.77e-02
## 557	3.46e-03	-1.13e-02	-2.24e-03	-8.27e-03	-9.75e-03	-6.36e-03	7.00e-03
## 558	-3.22e-05	-2.65e-04	1.61e-04	-1.12e-04	-1.40e-04	-2.90e-04	-1.32e-04
## 559	-5.71e-03	-1.19e-02	6.68e-02	6.61e-02	-5.00e-02	-1.36e-02	1.13e-02
## 560	3.90e-03	-6.15e-03	-4.20e-03	4.48e-03	-9.80e-03	-1.63e-02	-6.89e-03
## 561	-2.61e-02	2.09e-02	3.16e-02	1.87e-02	-6.98e-03	-6.63e-03	-6.80e-03
## 562	1.93e-02	-2.68e-02	1.25e-03	-3.23e-04	3.75e-02	-4.15e-02	-2.83e-02
## 563	-1.80e-03	-4.75e-03	1.21e-02	6.37e-03	-7.89e-03	4.49e-03	9.85e-04
## 564	9.17e-03	2.44e-02	1.74e-02	-1.18e-02	1.15e-02	4.61e-02	2.69e-03
## 565	5.16e-03	-3.86e-03	-4.27e-03	-3.90e-05	4.06e-04	6.91e-03	1.54e-03
## 566	6.31e-03	1.49e-02	1.38e-02	-1.52e-02	-1.43e-04	1.07e-02	-6.84e-03
## 567	1.48e-03	3.07e-03	8.07e-03	1.40e-02	-1.18e-02	-3.43e-03	-4.19e-05
## 568	3.08e-03	3.18e-04	-2.17e-03	-9.20e-04	-1.18e-03	-2.49e-03	-1.19e-03
## 569	-8.57e-04	-4.37e-03	-1.19e-03	2.34e-03	4.66e-03	-3.22e-03	-5.98e-03
## 570	2.29e-02	-4.40e-03	1.22e-02	-3.33e-03	-2.81e-02	2.56e-02	3.60e-03
## 571	3.18e-03	-2.12e-02	1.38e-02	4.03e-03	-1.13e-02	-2.09e-02	-9.28e-03
## 572	-6.44e-05	-1.67e-05	9.36e-05	4.52e-05	-2.80e-06	1.18e-05	3.28e-05
## 573	-1.92e-02	-1.18e-02	1.54e-02	6.24e-04	1.51e-02	1.76e-02	2.71e-02
## 574	2.74e-03	1.71e-02	1.51e-02	2.33e-02	-3.60e-02	1.13e-02	2.65e-02
## 575	-1.71e-03	-1.91e-03	1.44e-02	-2.76e-03	-1.16e-02	5.39e-03	1.42e-02
## 576	-2.69e-02	1.58e-03	1.68e-02	1.05e-02	7.86e-03	-4.84e-03	-3.45e-02
## 577	-5.85e-03	-9.52e-03	5.09e-03	-9.00e-03	1.61e-03	-8.20e-03	-3.97e-03
## 578	-5.26e-03	1.82e-03	-5.80e-03	-1.50e-02	1.14e-02	-8.04e-03	-7.23e-03
## 579	-9.42e-03	1.50e-02	2.38e-02	1.06e-02	-8.33e-03	-2.71e-02	-7.97e-03
## 580	-9.91e-03	1.64e-03	1.18e-02	-7.67e-03	-8.73e-03	-1.45e-02	-4.70e-03
## 581	3.45e-03	1.01e-04	5.95e-03	-6.99e-03	-6.03e-03	4.53e-03	-1.81e-03
## 582	1.31e-03	1.25e-02	1.89e-02	-6.89e-03	-6.12e-03	4.02e-03	-4.09e-03
## 583	-2.95e-03	-1.95e-03	4.03e-03	5.23e-04	-4.42e-04	-1.75e-03	-1.56e-03
## 584	-1.92e-02	1.97e-02	7.64e-03	-4.49e-03	5.10e-03	1.17e-02	-3.07e-03
## 585	-1.30e-02	-2.66e-03	1.43e-02	1.99e-02	-3.33e-03	1.80e-03	1.15e-01
## 586	2.18e-02	-4.28e-04	6.62e-03	-1.81e-02	-3.52e-02	9.87e-04	8.35e-04
## 587	-3.03e-04	-4.15e-03	-4.04e-03	1.08e-03	-9.15e-03	-1.20e-02	-8.87e-03
## 588	5.75e-03	7.46e-03	3.63e-03	-1.82e-02	-2.01e-02	3.47e-04	6.11e-04
## 589	-3.53e-03	4.31e-03	7.19e-03	1.06e-02	-1.35e-02	-5.09e-03	7.57e-04
## 590	1.74e-02	3.06e-03	-3.42e-02	8.91e-03	3.12e-02	-2.83e-03	-1.01e-02
## 591	8.08e-04	-4.00e-04	-5.52e-05	-8.35e-04	-4.72e-04	3.81e-04	-3.97e-03
## 592	3.66e-04	5.32e-04	-3.45e-04	3.42e-04	-5.47e-04	-7.13e-04	-3.44e-04
## 593	2.06e-02	-1.98e-03	3.95e-03	-1.55e-02	-3.09e-02	3.20e-03	-1.28e-02
## 594	2.10e-02	5.03e-04	-2.25e-02	-3.98e-03	-6.75e-03	-7.03e-03	-2.05e-02
## 595	-4.99e-03	-1.09e-03	8.48e-03	5.75e-03	-2.03e-02	-1.25e-02	-3.00e-03
## 596	-3.77e-03	-5.74e-04	5.38e-04	-3.10e-04	-1.90e-03	-3.91e-03	-1.18e-03
## 597	2.75e-02	1.60e-02	-7.99e-03	1.13e-02	-1.02e-01	-2.96e-02	2.32e-02
## 598	-3.41e-02	2.69e-02	3.19e-02	-1.79e-02	3.09e-03	-1.23e-02	3.22e-03
## 599	2.40e-02	5.98e-03	-2.39e-02	1.32e-02	-1.59e-02	-1.31e-02	-1.53e-02
## 600	-2.47e-02	-2.59e-03	-1.08e-02	-1.38e-02	8.36e-03	2.58e-02	1.59e-03
## 601	-5.22e-03	3.20e-03	4.39e-03	2.05e-03	1.96e-03	-2.77e-03	2.19e-03
## 602	2.31e-02	3.54e-02	-5.92e-02	-1.73e-02	3.17e-02	5.86e-03	1.80e-03
## 603	-3.37e-03	-7.41e-03	4.13e-03	-3.30e-02	-2.68e-02	-1.49e-02	-9.07e-03
## 604	6.12e-02	3.63e-02	-6.35e-02	-3.91e-02	4.93e-02	3.48e-02	-9.54e-03
## 605	-2.52e-02	1.48e-02	8.50e-03	-5.20e-02	1.03e-02	6.96e-03	6.19e-03
## 606	5.91e-03	-4.31e-02	-1.15e-02	-3.18e-02	3.06e-02	-4.52e-03	-1.52e-02
## 607	-1.09e-02	-4.34e-02	2.72e-02	-4.09e-02	-2.54e-02	-3.51e-02	-1.73e-02
## 608	-1.69e-02	8.50e-03	1.00e-02	1.25e-02	-5.85e-03	-1.46e-02	2.02e-03

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## 609 3.24e-02 -5.77e-02 -3.33e-02 -3.17e-02 3.64e-02 2.03e-03 -2.27e-02
## 610 -3.45e-02 -1.19e-02 1.70e-02 -3.66e-02 2.23e-02 -2.01e-02 2.29e-03
## 611 -2.79e-02 -2.20e-02 4.89e-03 -3.75e-02 1.50e-02 1.67e-02 5.29e-03
## 612 -2.72e-03 1.09e-03 -4.79e-03 -3.91e-03 6.85e-03 1.63e-03 5.04e-05
## 613 1.43e-02 -1.18e-02 -4.25e-02 -1.33e-02 6.47e-02 -7.24e-03 -2.17e-02
## 614 -1.04e-02 1.12e-02 -2.67e-04 -2.15e-02 -4.76e-03 -1.15e-02 -5.28e-03
## 615 5.84e-04 3.89e-05 -5.10e-04 -2.53e-04 -2.24e-04 1.52e-04 -5.19e-05
## 616 -5.53e-02 -4.07e-02 9.66e-03 3.81e-02 5.97e-02 6.21e-02 2.09e-02
## 617 -2.64e-02 -3.90e-02 5.16e-03 -1.26e-02 5.77e-04 4.84e-02 1.12e-02
## 618 -2.28e-02 -2.11e-02 2.70e-02 -7.76e-02 2.87e-03 -3.41e-03 -2.39e-02
## 619 -2.02e-04 -1.59e-03 -7.48e-04 7.92e-04 -1.64e-03 -4.63e-05 -3.27e-04
## 620 -1.60e-02 5.53e-03 4.73e-03 1.39e-02 6.49e-03 -2.91e-02 -4.23e-03
## 621 4.06e-02 -9.16e-02 1.19e-02 -5.04e-02 4.35e-02 4.91e-02 -1.89e-03
## 622 6.88e-03 -7.21e-03 -8.63e-03 -5.56e-03 1.70e-02 7.83e-03 -1.64e-03
## 623 8.37e-05 -4.47e-03 -1.96e-03 -7.56e-03 7.01e-03 2.19e-03 -1.19e-03
## 624 -1.66e-02 -1.78e-02 -2.29e-03 -1.60e-03 2.83e-02 -5.30e-03 -1.64e-02
## 625 -7.64e-03 7.57e-03 2.20e-03 -1.61e-02 6.09e-02 3.23e-02 4.41e-03
## 626 2.49e-02 2.55e-02 -4.13e-02 -2.18e-02 5.22e-02 -7.87e-03 -2.28e-02
## 627 7.04e-02 -5.57e-02 -2.25e-02 1.42e-01 -6.00e-02 -5.66e-03 -7.86e-03
## 628 -1.34e-02 -4.80e-03 1.13e-02 1.03e-02 8.90e-03 -6.62e-03 2.29e-03
## 629 -1.33e-02 -7.44e-03 8.33e-03 8.95e-03 1.52e-03 -9.03e-03 5.53e-03
## 630 1.49e-02 -2.15e-02 -3.85e-02 -3.69e-02 4.42e-02 2.33e-02 8.60e-03
## 631 1.02e-03 -4.28e-03 -1.50e-03 -3.39e-03 4.69e-03 2.08e-03 1.50e-03
## 632 7.50e-05 4.68e-03 3.02e-03 1.43e-02 6.34e-03 -1.29e-03 4.13e-03
## 633 -3.18e-03 1.04e-02 -1.44e-02 -3.24e-02 2.71e-02 1.10e-02 3.88e-03
## 634 -7.05e-04 8.19e-03 -8.94e-04 -1.00e-03 1.13e-02 -1.25e-03 -2.30e-03
## 635 7.52e-04 -3.44e-04 2.27e-05 -1.48e-03 -8.02e-04 4.61e-04 -8.35e-04
## 636 -1.03e-02 1.71e-02 -5.18e-04 1.50e-02 -2.13e-02 -8.56e-03 5.88e-04
## 637 2.83e-03 -1.17e-02 -6.52e-03 5.54e-04 -1.90e-03 -9.06e-04 -5.53e-03
## 638 -8.77e-03 1.03e-02 -1.28e-02 -8.26e-03 -4.85e-03 -1.15e-02 -1.12e-02
## 639 8.53e-03 3.42e-02 -1.21e-02 -5.02e-03 1.22e-02 1.11e-02 1.00e-02
## 640 1.23e-02 9.96e-03 -1.90e-03 1.07e-02 -1.86e-02 -9.56e-03 -7.73e-03
## 641 1.59e-02 1.10e-02 -1.58e-02 -4.69e-03 1.72e-02 1.33e-02 7.34e-04
## 642 -4.38e-02 1.26e-02 3.23e-02 2.47e-02 3.99e-02 -1.57e-02 1.22e-02
## 643 -4.97e-03 -4.25e-02 3.77e-03 -1.02e-02 3.85e-02 6.05e-03 3.92e-03
## 644 2.93e-03 -2.52e-03 -3.78e-03 -4.53e-03 1.32e-03 1.30e-03 -1.91e-03
## 645 1.03e-03 2.56e-02 5.50e-03 -3.30e-03 8.22e-03 4.95e-03 9.14e-03
## 646 8.45e-04 1.30e-03 -4.46e-03 1.03e-04 1.41e-02 -2.50e-04 -6.45e-04
## 647 -3.45e-02 -2.68e-04 9.80e-03 -3.32e-03 4.92e-03 -1.53e-02 -1.15e-02
## 648 9.01e-03 -7.08e-03 7.30e-03 -2.54e-03 -1.07e-02 7.13e-04 -5.18e-04
## 649 -5.45e-03 1.62e-02 5.67e-03 3.01e-02 1.38e-02 -5.62e-03 1.28e-02
## 650 -7.72e-02 2.28e-02 3.69e-02 -5.26e-02 2.10e-02 -5.95e-03 2.93e-02
## 651 2.64e-04 9.90e-05 -4.59e-04 -1.91e-05 -2.88e-04 4.79e-05 -4.43e-04
## 652 -1.21e-03 -1.81e-03 1.12e-03 1.65e-03 1.25e-03 -1.46e-03 5.72e-04
## 653 4.52e-03 1.66e-03 -3.33e-03 -5.22e-03 -2.73e-03 1.79e-03 7.37e-04
## 654 -8.90e-03 3.96e-03 1.62e-05 -4.73e-03 8.32e-03 -1.59e-03 2.10e-03
## 655 -4.78e-03 3.49e-03 5.17e-03 -8.91e-03 6.83e-03 9.80e-04 4.48e-03
## 656 1.23e-02 4.02e-02 -2.58e-02 -3.96e-02 1.70e-02 1.55e-02 5.15e-03
## 657 -4.29e-03 -6.90e-03 -3.03e-02 -3.61e-02 3.60e-02 2.12e-02 1.92e-02
## 658 -5.20e-05 -2.07e-02 1.74e-03 -2.54e-02 3.69e-02 -5.78e-03 3.39e-03
## 659 1.18e-03 -1.06e-03 1.56e-03 -1.19e-03 3.46e-03 -3.75e-04 1.78e-03
## 660 5.83e-02 8.38e-03 -6.16e-02 -6.83e-02 7.37e-02 1.31e-02 -4.47e-02
## 661 -1.67e-02 -2.06e-02 2.78e-03 -7.42e-02 2.34e-02 1.05e-02 1.33e-02
## 662 -1.91e-02 1.00e-03 4.44e-04 7.92e-03 -4.28e-04 -1.21e-02 -4.32e-03

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## 663	1.95e-03	4.75e-03	-6.03e-03	-7.04e-03	1.03e-02	3.23e-03	1.44e-03
## 664	-1.84e-02	-8.12e-03	1.65e-02	3.29e-02	7.89e-03	-2.65e-02	-3.27e-03
## 665	1.64e-04	3.52e-04	2.13e-04	2.52e-04	2.68e-04	2.32e-04	2.55e-04
## 666	2.29e-02	1.74e-02	1.20e-02	8.14e-02	-8.69e-02	-3.20e-02	-1.47e-02
## 667	1.67e-03	1.92e-03	-3.93e-04	1.28e-03	-2.16e-03	7.03e-04	-2.00e-04
## 668	-1.35e-04	-3.55e-04	6.43e-04	4.39e-04	-1.17e-03	-3.86e-04	-1.98e-04
## 669	2.87e-03	5.80e-04	-2.53e-03	-4.67e-04	4.80e-03	1.56e-03	4.90e-03
## 670	2.04e-02	-6.68e-02	-8.45e-03	3.54e-02	-2.04e-02	2.90e-03	-2.27e-02
## 671	-5.48e-03	-8.24e-03	3.92e-03	-4.96e-03	-1.76e-02	-8.16e-04	-2.27e-03
## 672	-6.05e-03	8.37e-03	1.82e-02	2.11e-02	1.23e-02	-8.50e-03	1.07e-02
## 673	-1.20e-03	8.44e-04	5.18e-04	-1.93e-03	2.06e-03	-1.02e-04	2.22e-05
## 674	2.90e-02	-2.29e-02	-3.13e-02	1.10e-02	-1.19e-02	1.70e-02	5.68e-03
## 675	3.55e-03	-4.89e-03	-9.11e-03	-1.51e-02	1.51e-02	1.04e-02	1.95e-03
## 676	-4.10e-03	2.52e-03	8.32e-04	3.91e-03	1.38e-03	-2.86e-03	-1.64e-03
## 677	-3.10e-03	-7.96e-04	4.14e-05	2.90e-03	6.98e-03	-4.87e-03	1.12e-03
## 678	-5.47e-03	-5.40e-03	-5.50e-04	7.11e-03	1.19e-02	-2.22e-03	4.61e-03
## 679	-2.20e-04	1.30e-04	3.71e-03	-1.11e-03	7.17e-04	4.34e-05	2.46e-03
## 680	-2.14e-02	1.98e-03	7.56e-03	3.46e-03	3.58e-02	-2.40e-02	6.14e-03
## 681	-1.25e-02	1.11e-02	4.31e-03	-7.66e-03	1.24e-02	-2.30e-03	3.99e-03
## 682	-2.04e-04	-4.45e-03	-4.96e-04	-2.96e-03	3.03e-03	2.14e-03	-1.61e-03
## 683	-1.16e-03	7.65e-04	-4.43e-03	-1.42e-02	1.09e-02	1.57e-03	-5.34e-04
## 684	-5.13e-03	1.27e-02	1.12e-02	1.12e-02	1.91e-03	-6.80e-03	4.05e-03
## 685	6.73e-03	6.41e-05	-3.24e-03	6.92e-03	-2.93e-03	5.44e-04	-1.10e-03
## 686	-1.70e-03	-1.08e-02	2.69e-03	-1.57e-03	-5.40e-03	-2.60e-03	-1.71e-03
## 687	7.15e-03	-1.02e-02	-3.68e-03	-5.27e-03	-1.88e-02	-4.79e-03	-8.86e-03
## 688	-4.19e-04	-1.31e-03	1.62e-05	-1.91e-04	9.53e-05	-8.72e-04	-1.85e-03
## 689	-3.29e-03	1.51e-03	4.04e-03	3.69e-03	-1.31e-04	-1.03e-03	2.09e-03
## 690	-1.08e-02	-1.29e-02	-2.93e-03	1.50e-02	-2.95e-02	-2.09e-02	-1.24e-02
## 691	2.39e-03	-2.45e-03	-1.73e-03	-3.80e-03	-3.10e-03	1.66e-03	-1.71e-03
## 692	-1.05e-02	-3.46e-03	1.52e-02	2.24e-02	-2.53e-02	-6.90e-03	-3.85e-03
## 693	9.56e-03	2.02e-02	8.29e-03	3.30e-02	-2.52e-02	-8.25e-03	-2.44e-03
## 694	2.17e-03	6.85e-03	-2.39e-03	-2.51e-03	-3.64e-03	8.57e-04	5.57e-04
## 695	6.77e-03	1.17e-03	-1.45e-02	-1.61e-02	2.36e-03	-5.30e-03	-5.98e-03
## 696	8.47e-05	-7.84e-03	-6.20e-03	-1.15e-03	-5.47e-03	-9.24e-03	-1.40e-02
## 697	-6.68e-03	3.09e-03	1.89e-03	3.02e-03	2.98e-03	-5.78e-03	1.56e-03
## 698	1.05e-02	2.57e-03	-7.23e-04	-2.93e-03	-9.18e-03	-2.47e-03	3.18e-04
## 699	-1.46e-02	-1.14e-02	2.05e-02	2.25e-02	2.01e-02	2.00e-02	3.63e-03
## 700	-2.57e-03	-7.36e-03	1.75e-02	-4.83e-03	-4.47e-03	2.00e-02	7.19e-03
## 701	-1.80e-03	4.86e-03	-1.76e-03	-4.90e-03	8.14e-04	2.59e-03	1.79e-04
## 702	-8.26e-03	-1.12e-02	1.46e-02	-4.93e-04	-7.61e-03	-3.76e-03	-1.74e-03
## 703	3.44e-03	-1.24e-03	-1.64e-03	-3.35e-03	-5.70e-04	6.87e-03	2.09e-03
## 704	-1.16e-02	1.62e-02	1.50e-02	2.74e-03	-3.16e-03	2.45e-02	1.38e-02
## 705	-6.72e-04	2.06e-04	4.14e-04	2.34e-04	1.22e-03	3.29e-04	-3.80e-04
## 706	-1.35e-02	-2.81e-03	1.39e-02	-1.35e-03	6.55e-03	-6.03e-03	-8.43e-03
## 707	-4.77e-03	3.70e-03	1.74e-03	6.97e-03	1.19e-02	-3.55e-04	-3.24e-03
## 708	-2.16e-02	9.28e-03	2.16e-02	4.87e-03	2.10e-03	4.59e-03	4.98e-03
## 709	-1.27e-04	1.95e-03	4.71e-04	7.92e-04	1.46e-03	4.30e-03	1.30e-03
## 710	6.66e-03	4.06e-03	-4.37e-03	-2.26e-03	-3.63e-03	7.66e-03	4.88e-03
## 711	1.97e-03	-1.56e-03	-2.45e-03	6.63e-05	-2.43e-04	-1.82e-03	-7.54e-04
## 712	-1.91e-03	-8.18e-04	1.03e-03	-2.69e-04	-1.11e-04	2.08e-03	8.72e-04
## 713	-1.36e-02	7.25e-03	1.37e-02	2.30e-03	4.64e-03	2.71e-02	1.19e-02
## 714	-2.07e-03	-4.14e-04	5.03e-04	-4.73e-04	3.52e-03	-9.74e-04	-5.08e-04
## 715	7.21e-03	-4.16e-04	-5.50e-03	-5.24e-03	-1.65e-02	-8.84e-03	-3.56e-03
## 716	-1.30e-02	7.49e-03	8.94e-03	1.92e-03	7.09e-03	1.21e-02	3.28e-03

## 717	1.62e-02	3.77e-03	-1.57e-02	2.23e-04	8.01e-03	2.85e-02	1.09e-02
## 718	-9.89e-03	5.02e-04	9.26e-03	-3.23e-03	7.23e-03	6.99e-03	-4.13e-03
## 719	-2.57e-02	5.97e-03	1.99e-02	7.63e-03	4.50e-03	7.09e-03	5.79e-03
## 720	-3.35e-03	8.44e-03	3.82e-03	-3.17e-03	-1.30e-03	5.77e-03	2.28e-03
## 721	-2.81e-02	3.61e-03	3.49e-02	5.98e-03	8.10e-04	9.81e-03	2.89e-03
## 722	-1.80e-02	2.78e-02	1.17e-02	2.86e-03	6.83e-03	9.69e-03	1.06e-03
## 723	5.34e-04	1.15e-04	-4.11e-04	-3.07e-04	-8.45e-04	-6.03e-04	-1.80e-04
## 724	-1.61e-04	1.52e-04	1.90e-04	1.17e-04	1.34e-04	4.58e-05	-4.46e-05
## 725	-2.66e-02	-1.12e-02	2.79e-02	4.41e-03	-6.79e-03	1.18e-02	9.48e-03
## 726	-1.18e-05	1.50e-04	2.42e-04	-1.72e-04	-2.11e-04	1.61e-04	4.34e-05
## 727	-1.12e-01	-3.35e-02	1.43e-01	-2.39e-03	-6.07e-02	2.22e-03	2.87e-02
## 728	5.11e-04	2.87e-04	-3.00e-03	-3.56e-03	1.55e-03	4.04e-04	-3.93e-04
## 729	-1.68e-03	1.59e-04	2.58e-03	2.90e-03	-3.06e-03	-4.91e-03	-1.03e-03
## 730	-8.51e-03	1.11e-02	7.97e-03	-5.15e-04	-3.80e-03	5.40e-03	7.89e-03
## 731	-1.32e-04	-1.04e-02	-5.71e-04	-2.91e-03	1.10e-03	6.42e-03	-3.15e-03
## 732	1.82e-02	-4.11e-03	-4.20e-03	-7.02e-03	-1.03e-02	1.09e-03	-3.78e-03
## 733	-6.96e-03	-1.73e-03	4.22e-03	1.93e-03	6.96e-03	5.33e-03	1.13e-03
## 734	-2.62e-03	-7.58e-03	-9.60e-03	-5.18e-03	2.87e-02	1.82e-02	9.74e-04
## 735	-6.49e-03	1.25e-02	7.54e-03	-2.38e-03	-3.25e-03	6.52e-03	4.05e-03
## 736	-1.41e-04	-4.24e-04	7.53e-04	2.01e-04	-3.75e-04	-1.30e-03	-4.94e-04
## 737	-1.54e-02	2.31e-02	2.28e-02	5.42e-03	-1.49e-02	7.07e-03	6.42e-03
## 738	2.87e-03	1.97e-02	-8.46e-03	-9.41e-03	9.41e-03	9.49e-03	-4.32e-03
## 739	6.06e-04	-1.91e-03	-1.63e-03	-5.15e-03	1.26e-03	6.71e-04	-2.70e-03
## 740	-1.07e-02	1.97e-04	-2.65e-02	-1.19e-02	4.79e-02	3.20e-02	9.43e-03
## 741	-9.81e-03	2.58e-03	6.23e-03	-3.02e-04	7.16e-03	2.75e-03	2.42e-03
## 742	5.41e-03	-7.46e-03	-1.39e-02	-3.78e-02	2.16e-02	-1.32e-02	-1.02e-02
## 743	1.97e-02	1.90e-02	-6.83e-03	-1.42e-02	-5.13e-03	1.36e-02	6.56e-03
## 744	2.46e-02	-6.05e-03	-2.56e-02	5.19e-03	3.47e-03	-4.18e-03	-4.50e-03
## 745	-2.01e-02	-2.52e-03	1.51e-02	1.61e-03	1.77e-02	9.47e-03	1.75e-03
## 746	-3.90e-02	1.40e-02	4.31e-02	4.20e-03	-2.58e-03	7.30e-03	9.49e-03
## 747	-7.21e-03	-1.30e-02	9.52e-03	7.55e-03	2.76e-03	-2.17e-02	-9.05e-03
## 748	3.21e-02	-4.16e-02	-1.94e-02	-3.17e-02	4.75e-02	9.81e-03	-1.83e-02
## 749	-6.90e-02	1.97e-02	5.62e-02	2.44e-02	4.36e-02	3.03e-02	9.36e-03
## 750	4.74e-03	-2.40e-03	3.66e-03	-8.05e-03	9.32e-04	1.14e-02	1.23e-03
## 751	1.74e-02	-1.64e-02	-1.46e-02	5.72e-04	-9.79e-03	-1.55e-02	-1.87e-03
## 752	-5.03e-03	2.34e-03	2.86e-03	3.29e-03	2.58e-03	1.80e-03	9.91e-04
## 753	-2.40e-04	2.92e-04	-8.07e-05	-2.49e-04	2.14e-04	-5.69e-05	-1.36e-04
## 754	2.02e-03	-6.34e-04	1.42e-04	-7.87e-03	-5.36e-04	-1.49e-03	1.27e-03
## 755	-3.01e-03	3.85e-02	-2.52e-02	-3.92e-02	4.34e-02	6.63e-02	1.60e-02
## 756	-3.27e-02	9.91e-03	3.44e-02	1.50e-02	1.18e-02	-3.16e-03	-6.07e-03
## 757	-2.76e-03	-7.28e-03	-4.81e-04	-1.40e-03	1.64e-03	-4.45e-03	-2.92e-03
## 758	3.30e-03	-2.50e-03	4.96e-03	-2.10e-03	-6.79e-03	-2.72e-02	-6.67e-03
## 759	-3.09e-02	2.61e-02	2.65e-02	-4.71e-03	-2.46e-02	-8.77e-04	-2.67e-03
## 760	-4.27e-02	3.57e-02	2.45e-02	1.66e-02	2.35e-02	7.41e-03	1.35e-02
## 761	-4.77e-04	2.66e-04	5.97e-04	5.21e-04	7.00e-05	5.21e-04	1.27e-04
## 762	4.32e-04	-4.02e-03	3.79e-03	4.00e-03	2.27e-05	3.48e-03	2.33e-03
## 763	-1.13e-02	4.63e-03	-3.90e-03	-1.60e-02	1.81e-02	-8.00e-03	-6.31e-03
## 764	-1.41e-02	-2.58e-03	-1.26e-03	-2.46e-02	1.80e-02	1.33e-02	8.89e-03
## 765	-5.17e-03	-3.16e-03	3.71e-03	1.16e-02	2.44e-02	1.32e-02	3.59e-05
## 766	-1.80e-02	1.69e-02	2.05e-02	6.98e-04	7.40e-04	1.03e-02	5.40e-03
## 767	1.08e-02	-9.31e-03	1.01e-02	-7.17e-03	-2.10e-02	-2.14e-02	-1.36e-02
## 768	-1.61e-03	-6.56e-04	3.81e-03	-1.24e-02	-1.33e-03	2.40e-02	3.38e-03
## 769	1.57e-03	-1.36e-04	7.10e-04	4.54e-04	-1.15e-03	1.72e-03	1.48e-04
## 770	-2.64e-03	-1.36e-03	-3.38e-04	-2.64e-03	3.95e-03	3.63e-03	1.35e-03

## 771	-1.50e-02	-1.48e-02	3.16e-02	-7.41e-03	3.15e-02	1.16e-02	-1.83e-02
## 772	-1.15e-02	4.48e-04	1.14e-02	-7.62e-04	4.84e-03	6.03e-03	2.76e-03
## 773	1.65e-02	9.28e-05	-1.32e-03	6.23e-03	-1.01e-03	2.02e-02	-5.39e-03
## 774	-1.81e-03	1.56e-03	-3.84e-03	-2.64e-03	2.09e-03	-2.94e-03	-1.57e-03
## 775	-1.31e-02	-3.98e-02	7.77e-02	-2.00e-02	-1.22e-01	-5.53e-02	8.43e-03
## 776	2.45e-02	-3.15e-03	-1.82e-02	-3.83e-02	-9.08e-03	3.37e-03	-3.87e-03
## 777	-2.14e-02	-2.76e-02	9.80e-03	4.92e-03	-2.86e-03	1.23e-03	5.29e-03
## 778	-1.95e-04	6.67e-03	1.05e-02	3.17e-02	-1.00e-02	-5.04e-03	1.27e-02
## 779	2.08e-03	-1.70e-02	1.07e-04	1.91e-03	-3.63e-03	-6.71e-03	-2.20e-03
## 780	-7.04e-02	1.99e-02	5.64e-02	3.20e-02	-8.41e-02	-7.90e-02	-1.88e-02
## 781	3.26e-03	-2.22e-03	-6.40e-04	-3.51e-03	-5.79e-04	2.60e-03	-7.35e-04
## 782	-1.73e-03	1.57e-03	2.79e-03	8.05e-04	-1.28e-04	1.82e-03	1.76e-03
## 783	-3.88e-02	2.83e-02	-1.78e-02	4.32e-02	7.70e-02	-2.99e-02	-1.53e-02
## 784	-1.30e-02	1.13e-02	4.22e-03	-4.64e-02	2.00e-02	1.03e-02	-7.18e-03
## 785	5.27e-03	-8.50e-04	-9.96e-03	-1.21e-03	1.20e-02	-2.88e-04	-4.74e-03
## 786	9.66e-03	1.57e-02	1.46e-02	1.84e-02	-6.04e-02	7.79e-03	1.17e-02
## 787	-2.52e-03	2.23e-02	-1.92e-02	1.05e-02	1.34e-02	-1.20e-02	-8.85e-06
## 788	-3.07e-04	-3.14e-04	5.76e-04	1.06e-03	-4.40e-04	5.44e-04	1.96e-04
## 789	-4.97e-03	2.93e-03	1.13e-03	4.82e-03	8.69e-04	-3.87e-03	-3.00e-04
## 790	9.72e-03	-2.97e-03	-3.43e-03	1.49e-02	1.42e-03	-5.51e-03	-2.72e-03
## 791	2.30e-02	-9.38e-03	-9.02e-03	2.59e-02	8.79e-03	2.51e-03	1.30e-03
## 792	1.96e-03	-1.27e-03	6.56e-04	-1.55e-03	-1.29e-03	-2.12e-03	-9.44e-04
## 793	1.31e-02	2.16e-03	-1.12e-02	-4.86e-03	-3.82e-03	-6.81e-03	1.36e-02
## 794	-1.17e-03	6.71e-03	-2.90e-02	1.73e-02	1.66e-02	-1.47e-02	-1.46e-02
## 795	1.25e-02	-3.22e-03	-6.80e-03	2.21e-03	-2.07e-03	4.26e-03	-2.60e-03
## 796	-4.62e-02	3.19e-03	3.52e-02	5.57e-02	-7.47e-02	-9.36e-02	-1.46e-02
## 797	1.06e-02	1.64e-03	9.80e-03	3.02e-03	-1.96e-02	9.59e-04	-4.26e-04
## 798	5.07e-03	1.04e-02	-2.39e-03	5.48e-03	-1.03e-02	-1.11e-02	-4.69e-03
## 799	-8.38e-03	-6.37e-03	7.52e-03	1.20e-02	7.97e-03	5.04e-03	4.40e-03
## 800	9.95e-04	1.21e-03	1.63e-03	1.02e-05	-3.83e-03	-3.62e-03	-1.07e-03
## 801	7.22e-04	6.58e-04	-2.37e-04	-6.73e-04	-3.25e-04	-4.59e-04	-2.50e-04
## 802	-1.08e-03	-5.44e-04	-3.83e-05	5.71e-04	4.09e-05	-7.20e-04	-1.68e-04
## 803	9.33e-02	-6.23e-02	-3.25e-02	1.93e-02	8.07e-04	2.83e-02	4.65e-03
## 804	1.48e-02	1.41e-02	-1.13e-02	-9.50e-03	-1.05e-02	-5.15e-03	6.64e-05
## 805	2.24e-02	-2.49e-03	-3.21e-02	-1.39e-02	3.06e-04	5.16e-02	1.04e-02
## 806	-1.50e-03	-7.92e-04	4.11e-04	3.37e-04	6.31e-04	2.69e-04	3.67e-05
## 807	8.18e-04	-3.23e-03	-3.11e-03	-2.28e-03	2.62e-03	5.35e-03	1.68e-03
## 808	-3.66e-03	-1.01e-03	1.12e-03	1.60e-03	2.79e-03	5.27e-03	1.20e-03
## 809	1.32e-03	-4.51e-04	-1.71e-03	1.39e-03	-2.87e-04	1.03e-03	2.72e-06
## 810	-4.37e-04	1.17e-03	5.24e-04	5.24e-04	-9.83e-04	-1.43e-03	-3.89e-04
## 811	3.33e-03	-1.73e-04	-6.32e-03	-1.09e-02	-9.81e-04	6.87e-04	-2.50e-03
## 812	-8.67e-02	-4.88e-02	3.07e-02	4.58e-02	2.92e-02	-6.32e-03	3.64e-03
## 813	-1.84e-02	1.11e-02	2.44e-02	-1.09e-02	-5.99e-03	1.33e-03	-2.00e-04
## 814	1.02e-04	2.33e-03	-5.13e-04	-1.79e-03	3.32e-04	-1.52e-03	9.15e-04
## 815	-8.84e-04	1.79e-02	4.10e-04	-3.75e-04	-1.05e-02	-1.81e-02	-8.49e-03
## 816	-8.30e-03	7.48e-03	1.17e-02	-1.09e-03	-1.11e-02	-5.75e-03	-2.51e-05
## 817	1.28e-02	4.85e-03	-8.10e-03	7.97e-04	-7.28e-03	-4.16e-03	5.13e-03
## 818	-1.85e-03	2.16e-03	2.39e-03	-3.75e-03	-7.69e-04	1.57e-03	-1.07e-04
## 819	2.19e-03	7.28e-04	-1.35e-03	-1.20e-03	-8.70e-04	-6.38e-04	-7.31e-04
## 820	1.37e-03	4.58e-03	3.04e-03	-9.15e-03	-6.31e-03	-3.11e-03	-2.82e-03
## 821	-8.66e-04	5.02e-03	2.41e-03	-1.46e-02	-1.04e-02	3.63e-03	3.14e-03
## 822	1.70e-02	-1.01e-02	4.88e-04	-2.44e-02	-6.35e-04	-3.44e-03	-7.94e-03
## 823	-5.56e-04	-5.80e-04	7.69e-04	9.84e-04	-1.37e-04	-3.32e-04	2.19e-04
## 824	-5.22e-02	3.10e-02	-1.69e-02	1.48e-02	4.05e-03	2.20e-02	4.42e-05

## 825	-4.72e-03	-3.52e-03	-1.08e-02	3.56e-03	3.80e-02	2.89e-02	4.82e-03
## 826	-6.86e-03	5.02e-03	-9.27e-03	1.10e-02	4.18e-03	1.24e-02	9.75e-03
## 827	-1.30e-04	3.11e-05	-9.41e-05	-6.99e-05	1.64e-04	2.22e-04	2.21e-05
## 828	5.45e-03	3.18e-03	2.68e-03	-1.74e-03	-6.05e-03	-5.03e-03	-2.21e-03
## 829	-9.80e-04	1.82e-03	4.51e-03	-1.38e-04	-9.65e-03	-8.72e-03	2.50e-03
## 830	-2.78e-03	-7.60e-03	1.40e-03	-6.66e-03	4.50e-03	1.14e-02	4.46e-03
## 831	-3.51e-03	-2.68e-03	6.53e-04	2.19e-03	2.43e-03	3.66e-03	4.95e-04
## 832	-2.88e-02	6.39e-03	1.59e-02	8.31e-03	1.73e-02	1.68e-02	1.20e-02
## 833	-8.69e-03	-4.95e-03	-2.04e-03	-3.16e-04	4.41e-03	6.30e-03	9.39e-04
## 834	4.15e-04	-2.08e-03	-6.51e-04	-8.76e-04	-6.06e-05	1.55e-03	9.32e-06
## 835	2.22e-02	2.76e-02	-3.14e-02	-3.84e-02	3.69e-02	1.23e-02	2.59e-03
## 836	8.82e-03	2.64e-03	-1.33e-02	-7.73e-03	1.88e-03	-1.10e-02	-7.02e-03
## 837	2.21e-02	4.63e-03	-9.41e-03	7.05e-03	1.11e-02	-2.61e-02	-1.32e-02
## 838	4.00e-03	5.06e-03	-8.48e-03	-1.47e-04	4.65e-03	-2.24e-02	-1.25e-02
## 839	-3.39e-03	4.64e-05	8.93e-03	2.27e-03	-8.86e-03	-4.35e-02	-1.71e-02
## 840	6.10e-03	-9.29e-03	-9.31e-03	6.20e-03	1.98e-02	7.67e-03	-7.85e-04
## 841	6.06e-04	4.66e-03	9.57e-04	-2.10e-03	-4.04e-03	-6.55e-03	-1.77e-03
## 842	1.38e-03	6.80e-04	-9.56e-04	-3.00e-04	9.48e-04	-8.41e-04	1.23e-05
## 843	-7.86e-04	-3.50e-03	3.78e-03	1.57e-03	-1.68e-03	1.91e-03	4.97e-04
## 844	8.96e-03	8.13e-03	3.53e-03	-5.61e-03	2.00e-03	-6.89e-03	-6.34e-03
## 845	-1.92e-01	4.36e-02	1.11e-01	-3.22e-02	-1.84e-02	3.22e-02	1.58e-02
## 846	1.54e-03	1.18e-02	9.74e-03	-1.25e-02	-2.30e-02	-7.16e-03	1.09e-03
## 847	-1.91e-02	8.48e-03	3.13e-02	8.56e-03	-2.37e-02	-2.51e-02	-3.05e-03
## 848	1.55e-03	-3.10e-02	1.56e-03	2.58e-02	5.47e-03	-1.22e-02	-1.55e-02
## 849	3.10e-03	7.89e-03	-9.36e-03	-4.34e-02	2.11e-03	-6.41e-03	-3.49e-03
## 850	7.53e-04	-6.21e-03	1.00e-03	2.20e-03	-3.45e-03	-7.03e-04	-3.12e-04
## 851	3.37e-03	3.41e-03	1.53e-03	5.47e-04	-6.47e-03	-4.66e-03	-1.45e-03
## 852	8.71e-03	-1.90e-02	-1.56e-02	5.99e-03	2.30e-02	2.80e-02	1.04e-02
## 853	-3.36e-02	-6.62e-03	2.67e-02	8.24e-03	-4.44e-03	-1.25e-02	-2.53e-03
## 854	3.58e-02	8.40e-03	-6.16e-02	-4.16e-02	1.84e-02	7.82e-02	2.62e-02
## 855	-1.70e-02	2.07e-02	3.22e-02	8.47e-03	-2.98e-02	-1.96e-02	1.54e-03
## 856	2.04e-03	9.97e-04	-1.78e-03	-1.15e-03	1.91e-04	3.95e-03	-6.03e-04
## 857	-3.42e-04	8.20e-04	1.44e-03	1.87e-03	-5.55e-04	6.21e-04	4.02e-04
## 858	2.25e-03	8.17e-04	-2.31e-03	2.24e-04	-2.94e-04	1.15e-03	-6.28e-05
## 859	-4.94e-04	7.57e-04	-6.93e-04	-2.94e-03	-1.08e-03	-1.30e-03	3.79e-04
## 860	-1.53e-02	-1.14e-02	1.14e-02	-1.73e-02	-4.89e-03	-5.23e-03	1.47e-03
## 861	4.55e-03	2.94e-03	-7.55e-03	4.01e-03	4.56e-03	1.00e-02	-9.14e-04
## 862	-9.22e-03	-1.15e-02	9.77e-03	-8.96e-03	8.50e-03	-1.24e-02	-4.46e-03
## 863	-4.13e-04	2.71e-05	3.69e-04	-6.33e-04	4.21e-04	-2.21e-04	-2.21e-04
## 864	1.48e-04	5.90e-04	-3.70e-04	9.91e-04	8.42e-04	1.14e-03	2.76e-04
## 865	1.04e-04	2.78e-04	9.12e-05	1.14e-04	2.53e-06	2.27e-04	1.41e-05
## 866	2.01e-04	-3.23e-04	-2.84e-04	-9.67e-04	-3.15e-04	-4.80e-04	-2.85e-04
## 867	-5.03e-04	6.33e-04	2.41e-03	1.20e-04	4.03e-05	-1.49e-03	4.38e-06
## 868	5.55e-03	1.69e-03	-3.35e-03	9.01e-03	1.00e-02	1.46e-02	1.33e-03
## 869	-1.33e-03	-3.39e-03	1.69e-03	-3.23e-03	-7.11e-04	-4.02e-03	-7.67e-04
## 870	6.91e-03	2.05e-02	-2.41e-03	2.67e-02	9.39e-03	1.40e-02	2.49e-03
## 871	-1.93e-03	-4.26e-03	4.07e-03	-1.95e-03	1.75e-04	-2.30e-03	3.03e-04
## 872	1.50e-02	-1.36e-02	-9.43e-03	-1.79e-05	-1.44e-02	-1.25e-02	4.43e-03
## 873	4.87e-03	9.97e-04	-1.86e-02	-5.95e-03	3.51e-03	-1.38e-02	-2.05e-03
## 874	3.49e-03	2.41e-04	-5.73e-03	2.12e-04	3.29e-05	-5.14e-03	2.73e-03
## 875	-2.94e-03	-5.65e-03	-1.36e-02	-2.81e-03	1.23e-02	-1.30e-02	-8.28e-03
## 876	-6.59e-04	2.33e-06	9.50e-06	-3.58e-04	4.03e-04	-2.19e-04	-3.72e-04
## 877	-4.45e-03	1.32e-05	-7.92e-03	2.17e-03	3.14e-03	-1.23e-02	-6.07e-03
## 878	-5.80e-03	5.06e-03	-1.13e-02	-6.61e-03	9.85e-03	-1.21e-03	-4.05e-03



```

## 879 5.99e-03 -3.00e-02 -3.98e-02 -8.47e-03 -7.25e-04 -9.88e-02 -2.55e-02
## 880 2.77e-04 -1.26e-05 -2.79e-05 -2.90e-04 -2.02e-04 3.75e-04 2.21e-04
## 881 8.72e-04 -1.10e-03 -3.25e-03 -4.93e-04 1.30e-03 -2.36e-03 8.08e-04
## 882 -1.50e-03 4.92e-03 2.38e-03 -3.11e-03 -4.41e-03 -9.92e-04 2.16e-03
## 883 -3.29e-04 1.91e-04 -3.97e-04 -1.37e-04 2.13e-04 -6.13e-04 -8.58e-05
## 884 3.93e-03 2.19e-03 -1.38e-03 -3.68e-03 2.33e-03 8.72e-03 -2.59e-02
## 885 -1.03e-03 -1.00e-03 -2.91e-04 1.06e-02 8.77e-04 -6.45e-03 -4.90e-03
## 886 -1.70e-03 6.20e-03 5.98e-03 -8.96e-03 5.42e-04 1.20e-02 -3.81e-02
## 887 4.61e-02 -2.13e-02 -5.97e-02 9.78e-03 1.95e-03 -8.59e-02 -3.16e-02
## 888 -1.37e-02 -8.04e-03 -3.07e-03 4.67e-03 4.27e-03 -1.89e-02 -8.92e-03
## 889 -8.27e-04 -1.73e-02 -1.09e-02 -1.70e-02 -3.30e-03 -3.04e-02 -6.44e-03
## 890 -1.62e-02 1.14e-02 3.46e-02 1.18e-02 -2.50e-02 -3.23e-02 -1.38e-02
## 891 2.55e-03 6.21e-04 4.52e-03 -1.49e-02 4.55e-04 7.93e-03 4.02e-04
## 892 -1.23e-03 -1.22e-03 -1.28e-03 -1.34e-03 2.25e-03 1.35e-04 -2.82e-04
## 893 -2.20e-03 1.57e-02 2.18e-03 -3.36e-03 6.17e-04 -1.08e-02 -1.39e-04
## 894 -1.10e-04 1.19e-04 -1.79e-04 2.42e-04 2.22e-04 -9.90e-05 -2.74e-06
## 895 1.99e-02 -6.75e-03 -2.01e-02 -7.02e-03 7.58e-03 -3.83e-02 -2.07e-02
## 896 7.83e-03 -8.12e-03 1.24e-02 -2.13e-02 -7.12e-03 6.31e-04 1.70e-03
## 897 6.53e-03 8.00e-03 8.97e-03 -9.74e-03 -1.58e-02 -1.25e-02 2.68e-03
## 898 2.71e-02 3.89e-03 -1.91e-02 -2.47e-02 -1.64e-02 9.54e-03 -9.91e-03
## 899 -7.40e-03 3.74e-04 8.15e-04 -8.40e-04 5.33e-03 4.92e-03 8.41e-04
## 900 -3.65e-02 3.22e-02 -8.86e-02 5.60e-02 5.78e-02 -5.57e-02 -2.62e-02
## 901 -1.04e-02 1.14e-03 5.76e-03 6.46e-03 3.11e-03 -3.09e-03 1.88e-03
## 902 7.66e-02 3.38e-02 -3.54e-02 1.77e-02 -2.88e-02 -1.31e-02 -2.25e-02
## 903 1.42e-02 -1.14e-02 3.63e-03 -1.80e-02 -1.13e-02 8.44e-03 2.63e-03
## 904 -1.03e-02 -6.06e-03 1.02e-02 6.97e-03 1.52e-03 -6.58e-03 1.71e-03
## 905 -2.03e-02 2.76e-02 -6.28e-02 5.59e-02 1.95e-02 -7.79e-02 -4.08e-02
## 906 4.03e-04 -7.84e-04 -3.47e-04 -2.39e-04 1.67e-04 -2.17e-04 -3.37e-04
## 907 6.65e-02 -2.87e-03 -2.73e-02 -2.98e-02 -3.42e-02 6.73e-03 -8.33e-03
## 908 2.77e-02 -1.18e-02 -2.79e-02 -1.02e-02 1.81e-02 2.60e-05 -8.15e-03
## 909 -3.06e-04 1.44e-04 1.21e-04 -3.43e-03 -1.31e-03 5.80e-04 -4.08e-05
## 910 -7.06e-03 -8.04e-04 5.44e-03 3.57e-03 -3.01e-03 -1.07e-03 1.27e-03
## 911 1.04e-02 4.67e-03 -1.03e-04 -2.53e-03 -8.98e-03 4.39e-03 2.99e-03
## 912 -1.30e-01 8.70e-02 -2.45e-02 2.19e-01 -3.10e-02 -2.03e-01 -6.37e-02
## 913 -9.69e-02 8.09e-02 2.07e-02 8.98e-02 -3.14e-02 -1.36e-01 1.12e-03
## 914 1.57e-03 -6.76e-04 -2.21e-03 -5.46e-03 -9.20e-04 1.16e-03 -1.27e-03
## 915 2.39e-02 2.32e-02 -1.08e-02 3.86e-02 -9.47e-03 6.19e-03 4.86e-03
## 916 1.36e-02 4.54e-02 -4.06e-02 8.62e-02 -5.34e-03 6.96e-03 1.27e-02
## 917 -4.28e-03 3.99e-03 2.27e-04 1.27e-02 -4.19e-03 -8.29e-03 5.42e-03
## 918 1.10e-02 6.16e-03 1.19e-02 7.35e-02 -2.09e-03 2.48e-02 1.30e-02
## 919 -2.40e-03 -7.50e-03 6.77e-03 4.56e-02 4.93e-03 3.98e-03 4.19e-03
## 920 6.95e-03 5.63e-02 -1.90e-02 4.28e-02 -9.94e-03 6.33e-03 1.42e-02
## 921 -7.43e-02 3.47e-02 7.49e-02 5.09e-02 -5.85e-02 -3.41e-02 -4.99e-03
## 922 -5.20e-03 8.37e-04 3.88e-03 2.40e-03 2.42e-04 -3.42e-03 -1.28e-03
## 923 4.05e-03 1.48e-02 -5.12e-02 7.68e-02 -3.78e-02 -3.05e-02 5.98e-03
## 924 -8.97e-03 9.01e-03 1.91e-04 4.59e-02 6.49e-03 3.29e-03 1.11e-02
## 925 -6.82e-02 3.48e-02 8.62e-02 4.62e-02 -1.04e-02 -4.72e-02 -7.93e-03
## 926 -1.29e-03 9.07e-03 -4.60e-03 8.96e-03 5.97e-03 7.31e-03 7.17e-03
## 927 1.44e-04 1.63e-03 1.27e-03 3.47e-03 -2.54e-03 2.48e-03 1.72e-03
## 928 -1.45e-03 -2.59e-02 -4.13e-04 -2.06e-02 1.34e-02 -1.10e-02 -1.24e-02
## 929 -1.56e-02 5.12e-03 1.48e-02 2.99e-02 6.58e-04 -5.92e-03 -6.08e-03
## 930 -1.47e-02 9.48e-02 -7.53e-02 3.78e-02 4.29e-02 7.07e-02 5.73e-03
## 931 -1.14e-03 -1.00e-03 2.09e-03 -1.71e-03 1.17e-03 -6.58e-04 -8.09e-04
## 932 -9.40e-03 1.62e-03 6.52e-03 1.83e-02 -1.23e-03 -1.44e-03 4.20e-03

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## 933	-1.06e-02	-3.15e-04	2.18e-02	2.16e-02	1.24e-02	1.50e-02	-4.37e-04
## 934	1.19e-02	-2.24e-02	2.94e-02	6.87e-02	-2.55e-02	1.58e-03	1.54e-02
## 935	-3.18e-02	2.88e-02	3.18e-02	6.19e-02	-1.40e-03	-7.02e-04	1.19e-02
## 936	8.96e-03	1.78e-02	-2.45e-02	7.09e-02	-7.12e-03	1.79e-02	1.45e-02
## 937	-4.69e-02	-1.70e-03	5.60e-02	8.10e-02	-8.86e-03	1.55e-04	8.18e-03
## 938	-2.45e-02	8.89e-03	1.42e-02	3.93e-02	-2.51e-02	3.28e-03	1.50e-02
## 939	-1.62e-02	5.09e-03	-1.32e-02	-1.21e-02	2.07e-02	1.42e-02	2.07e-03
## 940	-1.18e-02	8.73e-03	1.45e-02	4.02e-02	-6.44e-03	-7.41e-03	1.32e-02
## 941	3.13e-03	-5.74e-03	-8.04e-03	4.81e-03	4.20e-03	9.41e-04	-1.30e-03
## 942	3.53e-03	-2.21e-03	-1.64e-03	-4.00e-03	2.35e-03	-2.48e-03	5.34e-04
## 943	-2.16e-04	3.36e-05	-1.80e-04	-8.36e-05	1.56e-04	5.69e-04	2.04e-05
## 944	-1.68e-03	5.99e-04	1.33e-03	1.80e-03	2.09e-04	-1.58e-03	-1.71e-04
## 945	2.64e-02	-1.41e-02	-2.22e-02	-3.65e-02	-6.56e-03	-1.37e-02	-8.75e-03
## 946	3.62e-03	-5.53e-03	-1.64e-02	-1.42e-02	1.40e-04	4.44e-03	-1.00e-02
## 947	-2.03e-02	2.90e-02	-6.37e-03	2.48e-02	1.18e-02	-1.23e-02	-9.11e-03
## 948	6.64e-04	4.78e-05	-5.01e-04	-1.68e-04	-5.79e-04	6.02e-04	-3.00e-04
## 949	2.73e-04	-2.32e-04	-1.38e-04	-3.63e-04	4.03e-04	-6.71e-05	1.52e-04
## 950	3.98e-03	3.28e-03	-3.42e-03	-9.16e-04	4.14e-03	-5.17e-03	-1.59e-03
## 951	-6.24e-05	6.49e-05	-1.27e-04	3.23e-04	4.66e-05	3.69e-04	-6.73e-05
## 952	-1.03e-03	3.75e-04	2.44e-03	-1.86e-04	1.11e-03	-2.02e-03	1.66e-03
## 953	-3.82e-04	-1.73e-03	-3.44e-03	5.77e-03	2.16e-03	5.30e-03	-1.28e-03
## 954	2.24e-03	-5.88e-05	5.05e-03	-8.34e-03	6.18e-03	-6.48e-03	-1.62e-03
## 955	-6.47e-04	1.46e-02	8.53e-03	1.73e-02	-2.54e-02	-2.70e-02	-6.92e-03
## 956	2.43e-03	-5.08e-03	-1.71e-03	-1.12e-03	-1.46e-03	-1.80e-03	1.49e-03
## 957	-1.64e-02	-2.29e-02	1.78e-02	1.67e-02	-1.43e-02	-1.15e-03	-2.00e-03
## 958	-1.42e-02	3.71e-02	3.99e-03	6.93e-03	-2.48e-02	-4.77e-02	-1.03e-02
## 959	3.51e-03	-8.19e-03	-3.30e-03	1.26e-02	-3.20e-03	-1.88e-02	-1.03e-02
## 960	-2.88e-03	-2.13e-03	2.24e-03	2.19e-03	-1.96e-03	-7.25e-03	-3.29e-03
## 961	9.39e-03	-7.64e-03	-7.58e-03	-2.59e-03	-2.71e-03	4.14e-03	9.47e-03
## 962	-1.07e-03	-2.19e-03	-1.09e-03	-2.91e-04	-7.38e-04	-1.19e-03	-4.06e-04
## 963	5.76e-03	-3.13e-03	-6.30e-03	2.90e-03	5.59e-05	2.38e-03	-1.86e-03
## 964	-3.03e-02	-1.31e-04	-4.67e-03	-7.72e-03	1.85e-02	1.33e-02	-3.15e-04
## 965	2.06e-03	1.84e-03	-2.66e-04	-1.66e-03	-2.23e-04	2.54e-03	1.42e-03
## 966	2.75e-03	1.29e-04	-1.12e-02	-2.60e-02	7.44e-03	6.31e-02	2.40e-02
## 967	-1.98e-03	-2.37e-02	1.96e-03	6.64e-04	8.61e-03	1.09e-02	2.29e-03
## 968	-9.23e-03	-1.46e-02	1.49e-02	1.04e-02	4.03e-03	-2.16e-02	-4.91e-03
## 969	1.63e-04	-1.74e-03	3.43e-04	4.53e-04	-4.55e-04	-1.26e-03	-5.63e-04
## 970	1.06e-02	1.55e-02	-2.56e-02	-1.79e-05	8.95e-03	-3.07e-02	-1.89e-02
## 971	1.34e-03	-5.93e-03	3.42e-03	5.27e-03	-7.43e-04	2.77e-03	1.73e-04
## 972	1.50e-02	1.92e-02	-3.23e-02	6.98e-02	-1.45e-02	-1.14e-01	-4.37e-02
## 973	-1.22e-04	1.10e-05	-1.85e-04	-1.98e-04	4.69e-04	3.39e-04	7.70e-05
## 974	-1.37e-03	-4.50e-03	6.34e-03	7.53e-04	-1.15e-03	9.05e-03	9.48e-04
## 975	5.09e-02	-1.79e-02	-6.79e-02	2.02e-02	1.16e-02	-1.36e-04	-1.75e-02
## 976	2.10e-03	-6.21e-03	-2.02e-03	3.26e-03	-4.06e-03	1.73e-03	3.55e-04
## 977	-9.69e-04	-8.64e-03	-1.32e-02	-1.13e-02	6.37e-03	-1.81e-02	-5.19e-03
## 978	-2.02e-03	4.62e-04	9.43e-04	-1.59e-03	-3.26e-04	2.44e-03	1.53e-03
## 979	-2.72e-03	-8.57e-02	7.06e-03	-9.54e-04	1.34e-02	4.41e-02	9.77e-04
## 980	9.35e-03	-1.61e-02	-2.24e-02	6.28e-03	1.58e-02	-2.91e-02	-1.87e-02
## 981	4.38e-03	-4.00e-03	-7.03e-03	1.10e-02	-8.08e-04	-2.01e-02	-9.51e-03
## 982	-1.41e-05	5.57e-04	-3.31e-06	-4.90e-04	3.10e-04	5.10e-04	-4.36e-03
## 983	1.12e-03	-2.45e-02	-1.03e-02	-7.59e-04	4.47e-03	-2.10e-02	-9.06e-03
## 984	1.65e-02	3.27e-02	-1.25e-02	2.02e-03	4.05e-03	1.58e-03	9.07e-04
## 985	-5.16e-03	-3.88e-03	-8.95e-03	-2.14e-03	-3.79e-04	-1.97e-02	-9.84e-03
## 986	2.73e-03	1.08e-03	-5.01e-03	-6.30e-03	1.97e-03	4.05e-03	1.30e-03

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## 987  9.91e-03  5.67e-03 -1.98e-02 -7.11e-03  1.97e-03 -8.40e-03 -4.39e-03
## 988  3.86e-02 -1.66e-02 -1.89e-02  5.23e-03 -1.29e-02  1.83e-02 -1.63e-03
## 989  4.43e-03  1.96e-02 -1.40e-02  5.24e-03 -1.05e-02 -1.76e-02 -7.55e-03
## 990  1.31e-02 -9.05e-03 -3.80e-03 -1.78e-02  2.04e-03  2.92e-02  6.37e-03
## 991  1.43e-02 -4.66e-02 -1.93e-02  1.85e-02  1.18e-02  2.37e-02  1.02e-03
## 992 -4.53e-03  3.75e-03  7.53e-03  3.14e-03 -4.20e-03  1.17e-03  8.03e-04
## 993  3.79e-02 -1.19e-02 -5.23e-02 -3.28e-02  4.41e-02  7.66e-02  1.78e-02
## 994  4.75e-03 -4.18e-03  4.55e-04  1.01e-02 -5.05e-03 -1.48e-02 -5.34e-03
## 995  1.92e-03 -3.28e-03  2.52e-03 -3.48e-04  4.50e-04  5.65e-03  2.19e-03
## 996  4.56e-03 -1.86e-03 -5.88e-03 -1.32e-03 -1.52e-03 -5.14e-03  7.18e-03
## 997  3.98e-02  7.03e-03 -3.60e-02  5.62e-04 -2.24e-02 -5.75e-03 -5.90e-03
## 998 -3.46e-04  4.73e-04  2.39e-04  1.91e-03  1.85e-03  1.46e-03  1.17e-04
## 999 -8.89e-03 -9.94e-03  4.65e-03 -5.16e-03  5.98e-03  4.80e-04 -1.28e-03
## 1000 -1.30e-03  6.78e-04  1.97e-03  4.20e-03  6.67e-04  1.78e-03  1.27e-02
## 1001  2.22e-02 -8.74e-04 -4.29e-02  1.98e-02  1.37e-02 -6.28e-03 -1.04e-02
## 1002  7.61e-03 -1.24e-02  1.38e-02 -3.00e-02  9.96e-04  7.03e-03 -1.90e-02
## 1003  2.68e-02  1.81e-02 -1.16e-02 -3.65e-02 -2.67e-02  7.18e-03 -2.13e-03
## 1004 -4.12e-03  6.27e-04  8.02e-03 -5.12e-03 -1.93e-02 -1.57e-02 -2.59e-03
## 1005 -8.09e-03  1.18e-04  5.77e-03  8.58e-04  7.77e-03  2.36e-03  4.13e-03
## 1006  1.21e-02  1.19e-02 -1.69e-02 -2.34e-02  2.44e-03 -9.41e-03 -1.67e-02
## 1007 -1.11e-01  6.79e-02  1.21e-01 -9.10e-03 -1.10e-01 -4.35e-02  2.91e-02
## 1008  1.79e-04 -2.06e-03  2.36e-02  7.99e-03 -3.27e-02  1.57e-02  9.75e-03
## 1009  4.09e-03 -2.05e-02 -1.13e-02 -6.24e-03  1.82e-03 -2.16e-03  2.71e-03
## 1010 -2.41e-03 -1.70e-03 -1.70e-03  3.55e-03 -3.05e-03 -7.49e-03 -1.89e-02
## 1011 -1.76e-03  1.03e-02 -8.01e-03  6.23e-03  3.93e-03 -6.04e-04  1.27e-02
## 1012 -1.29e-02  6.72e-03  2.10e-02 -2.60e-02 -2.49e-02 -3.98e-03  1.46e-03
## 1013 -2.71e-03  1.18e-03  3.08e-03  4.18e-03 -2.83e-04  1.39e-03  2.21e-02
## 1014  1.18e-03 -1.45e-03  6.19e-03 -1.79e-03 -7.76e-03  5.34e-04 -1.10e-02
## 1015 -4.61e-04  6.08e-04  1.20e-03 -1.92e-03 -2.74e-03 -3.82e-04  2.71e-04
## 1016  1.97e-03 -8.24e-05 -9.74e-05 -3.61e-04 -3.43e-03 -1.06e-04 -1.58e-03
## 1017 -1.63e-03  3.20e-05  1.32e-03  5.31e-04  1.72e-03  1.48e-03  9.47e-03
## 1018  1.15e-02  2.78e-03  4.30e-03  1.17e-02 -3.36e-02 -3.87e-03 -3.89e-04
## 1019 -7.80e-03  6.49e-04  4.80e-03 -1.07e-04  7.77e-03  9.70e-04  6.52e-03
## 1020  2.16e-03 -2.90e-03  5.01e-03 -1.94e-03  3.01e-04  6.89e-03  1.08e-03
## 1021 -2.19e-04 -2.74e-05 -2.42e-05  4.65e-04 -7.52e-04 -1.53e-03 -7.60e-03
## 1022  4.28e-03 -1.73e-03  5.65e-03  2.43e-02 -1.09e-02  2.40e-02  1.39e-01
## 1023 -1.03e-02 -4.43e-06  8.12e-03  1.46e-03  6.91e-03  2.05e-03  2.29e-02
## 1024 -4.16e-03 -8.62e-04 -5.87e-04 -3.23e-03  4.62e-05 -1.82e-03 -2.75e-03
## 1025 -5.39e-03  2.93e-03  2.45e-03  8.36e-03 -1.12e-03  1.03e-03  4.38e-02
## 1026 -6.85e-04 -3.21e-03 -4.41e-03 -9.99e-04 -1.70e-03 -4.74e-03 -5.98e-03
## 1027 -1.58e-02  2.58e-03  1.26e-02  1.66e-02 -1.00e-03  4.87e-03  1.13e-01
## 1028  1.89e-03 -3.05e-03 -4.52e-03 -4.52e-03 -2.23e-03 -6.41e-03 -6.54e-03
## 1029  1.17e-02  6.95e-03 -1.22e-02  4.70e-03  1.35e-02  8.43e-03  3.84e-03
## 1030 -8.16e-04 -4.71e-03 -4.41e-04  3.06e-03  1.10e-03  6.49e-04  5.35e-04
## 1031  1.06e-03  2.26e-04 -1.43e-03  1.18e-03 -6.86e-04  6.91e-05  8.47e-05
## 1032 -7.07e-03 -5.43e-03  7.29e-03  1.57e-02  1.48e-02  4.99e-03  4.50e-03
## 1033 -1.32e-02  7.19e-03 -3.00e-03  8.00e-03  1.58e-02 -4.11e-03  5.81e-02
## 1034  6.36e-04  8.64e-04 -2.09e-03  1.05e-03  1.15e-03  4.44e-04  7.84e-05
## 1035  4.08e-03  1.33e-03  1.32e-03  3.90e-03 -1.46e-02 -5.77e-03 -5.19e-03
## 1036  2.48e-04  5.25e-04  3.34e-05  1.67e-04 -1.39e-03 -8.05e-04 -3.49e-03
## 1037  6.25e-03 -5.81e-03  5.40e-03  1.81e-03 -2.80e-02 -1.40e-02 -1.84e-03
## 1038 -4.80e-03 -3.45e-03  7.29e-03 -7.40e-03  1.21e-03 -3.34e-03 -4.12e-03
## 1039  3.06e-02  1.47e-02 -4.84e-02  2.07e-02 -1.27e-02 -2.29e-02 -1.94e-02
## 1040  7.69e-03 -1.31e-02  1.70e-02 -3.20e-02 -4.64e-02 -6.66e-03  2.55e-03

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## 1041 -2.35e-03 -1.09e-03 5.43e-03 2.05e-04 -7.84e-03 -1.52e-03 -1.42e-02
## 1042 3.37e-03 -8.57e-04 -3.96e-03 -2.01e-03 -1.13e-03 1.21e-02 5.37e-03
## 1043 -6.20e-03 -1.14e-03 8.73e-03 -1.13e-04 3.59e-04 4.80e-03 2.09e-02
## 1044 -7.77e-03 -1.74e-04 4.73e-03 -3.96e-03 1.17e-02 5.24e-03 1.04e-02
## 1045 -4.27e-03 9.93e-04 4.56e-03 5.00e-03 -1.79e-03 -3.16e-03 -2.23e-03
## 1046 -1.82e-03 4.28e-03 -4.17e-03 7.96e-03 -4.54e-03 -8.42e-03 3.30e-04
## 1047 -1.35e-02 5.35e-03 2.04e-02 1.03e-02 -4.77e-03 1.67e-04 -1.43e-02
## 1048 -2.50e-02 8.79e-03 2.57e-02 -9.65e-02 -1.91e-02 7.37e-03 2.74e-04
## 1049 -6.94e-03 -2.77e-02 4.05e-02 3.57e-02 -3.10e-02 4.02e-04 4.79e-03
## 1050 1.00e-02 8.26e-03 -1.52e-02 9.76e-04 4.25e-03 -1.11e-03 -3.86e-03
## 1051 -1.46e-02 2.55e-02 3.42e-03 1.55e-02 -3.58e-03 -1.96e-02 -1.31e-02
## 1052 6.87e-03 -8.09e-03 -1.86e-02 -9.04e-03 7.88e-03 -3.56e-04 1.14e-02
## 1053 1.22e-03 3.73e-04 -2.51e-03 -4.78e-04 6.54e-04 -1.22e-04 5.30e-05
## 1054 -1.28e-02 1.97e-02 1.43e-02 -1.32e-02 2.02e-03 -3.87e-03 2.04e-03
## 1055 -7.15e-02 3.80e-02 5.18e-02 2.61e-02 -4.22e-02 -4.24e-02 -6.34e-03
## 1056 -7.53e-03 1.63e-02 2.71e-02 -1.42e-02 -2.57e-03 -2.05e-03 5.32e-03
## 1057 -2.14e-02 4.45e-02 1.12e-02 1.81e-02 -1.24e-02 -2.84e-02 -9.17e-04
## 1058 -5.21e-02 1.23e-01 1.02e-02 -6.59e-02 -7.29e-02 -1.02e-01 -4.21e-02
## 1059 3.34e-01 1.77e-01 -2.36e-01 -2.12e-02 -4.63e-01 -2.00e-01 -2.71e-02
## 1060 -1.49e-03 -6.63e-03 1.35e-02 -6.74e-02 -4.29e-02 6.60e-03 -2.70e-03
## 1061 -7.41e-03 7.49e-03 1.02e-02 -5.88e-03 -1.72e-02 -9.94e-03 -3.01e-03
## 1062 -6.55e-03 1.19e-03 4.31e-03 2.44e-03 1.58e-03 -4.15e-03 -5.97e-04
## 1063 2.94e-03 -6.24e-03 1.41e-04 -5.22e-04 -2.49e-04 7.79e-04 -1.24e-03
## 1064 -6.13e-03 2.56e-03 -2.20e-04 -5.52e-03 2.70e-03 -9.35e-03 -6.06e-03
## 1065 8.01e-03 8.05e-03 1.18e-02 1.33e-02 -5.41e-03 1.66e-02 -6.68e-03
## 1066 -1.18e-01 7.02e-02 1.16e-01 5.86e-02 -2.53e-03 -2.18e-02 3.85e-02
## 1067 1.61e-03 2.20e-03 3.89e-03 -3.55e-03 -5.05e-03 5.73e-03 1.92e-03
## 1068 -4.19e-03 1.30e-03 1.27e-02 1.99e-02 -1.41e-02 -4.48e-04 3.35e-03
## 1069 3.18e-02 4.38e-03 -1.90e-02 7.03e-03 -6.72e-03 -1.06e-02 -5.56e-03
## 1070 -7.03e-02 5.01e-03 6.24e-02 2.44e-02 -1.36e-02 -1.08e-02 1.11e-02
## 1071 -4.58e-02 1.68e-02 4.98e-02 -1.23e-02 -8.71e-04 -7.62e-03 1.76e-02
## 1072 -3.00e-02 3.59e-02 2.54e-02 4.36e-04 -3.00e-03 -7.47e-03 -6.21e-03
## 1073 -8.82e-02 1.08e-01 4.65e-02 4.51e-02 -3.09e-02 -5.80e-02 1.90e-02
## 1074 -4.07e-02 -9.47e-03 8.10e-02 -9.13e-02 -8.09e-02 -5.05e-02 -1.92e-03
## 1075 -1.56e-02 7.74e-03 2.60e-02 8.33e-03 -6.92e-03 -7.91e-03 -7.62e-04
## 1076 6.60e-02 -4.66e-02 1.39e-02 3.47e-02 -7.16e-02 -2.63e-02 -3.00e-02
## 1077 -3.44e-03 3.90e-03 1.72e-03 3.04e-03 1.01e-03 -2.61e-03 8.68e-04
## 1078 3.91e-03 -4.69e-03 -8.58e-04 1.36e-03 -1.48e-03 2.38e-03 -2.59e-03
## 1079 -5.09e-02 9.76e-03 3.63e-02 5.37e-03 2.01e-03 -3.59e-03 1.94e-02
## 1080 -1.19e-02 1.99e-02 6.82e-03 1.38e-02 -8.35e-03 -9.30e-03 5.43e-03
## 1081 6.72e-04 -8.10e-03 1.17e-03 9.06e-03 5.53e-03 -9.03e-07 -4.83e-03
## 1082 2.58e-02 3.90e-02 -2.33e-02 2.71e-02 8.33e-03 -7.18e-04 6.25e-03
## 1083 -1.44e-02 1.53e-02 2.42e-03 1.16e-02 -1.06e-02 -1.88e-02 -7.08e-03
## 1084 -1.13e-02 9.83e-03 8.51e-03 9.53e-03 -1.10e-02 -1.33e-02 4.75e-03
## 1085 -2.22e-03 4.38e-03 5.30e-03 1.43e-03 1.28e-03 -2.20e-03 -1.84e-03
## 1086 -1.00e-02 5.68e-03 1.23e-02 1.34e-02 -2.23e-04 -8.25e-03 -6.41e-04
## 1087 -4.58e-02 -2.61e-03 4.09e-02 -6.24e-03 -1.59e-02 -1.03e-02 1.96e-03
## 1088 -8.46e-03 1.69e-02 1.34e-02 3.17e-04 -2.12e-02 -1.43e-02 -1.70e-03
## 1089 -1.01e-03 6.36e-03 4.29e-03 1.20e-02 1.39e-04 -4.52e-03 2.04e-03
## 1090 -4.23e-03 2.00e-02 -8.65e-03 2.87e-03 -1.14e-02 -3.80e-02 -1.01e-02
## 1091 -2.53e-02 7.26e-02 2.84e-02 -5.16e-02 -2.23e-02 3.48e-03 -9.41e-04
## 1092 -5.56e-03 1.77e-02 1.76e-02 -2.72e-02 -2.19e-03 1.28e-03 -1.38e-03
## 1093 -1.69e-02 1.14e-02 1.74e-02 2.12e-02 4.51e-03 -5.94e-03 -6.49e-04
## 1094 -2.64e-01 2.17e-01 2.83e-01 1.62e-02 -1.06e-01 -1.47e-01 2.97e-02

```

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## 1095  3.09e-03 -1.35e-03  3.41e-03  1.21e-03 -5.03e-03 -3.31e-03  8.54e-04
## 1096 -2.56e-03 -7.32e-03  6.28e-03 -1.04e-02  3.67e-04  4.41e-03  5.55e-03
## 1097  1.04e-02 -7.91e-03  5.50e-03 -1.96e-03 -5.64e-03 -1.41e-03  6.99e-04
## 1098  2.64e-04  9.75e-03  4.22e-03 -2.27e-03 -3.09e-03 -6.00e-03  3.19e-04
## 1099 -9.38e-03 -5.93e-03  2.21e-03 -2.75e-03  6.83e-03  5.70e-03 -2.27e-03
## 1100 -2.32e-03 -1.48e-02  6.36e-03 -3.70e-03  4.83e-03  9.66e-03  9.29e-03
## 1101 -3.18e-04  4.74e-05 -8.13e-05 -3.50e-05  5.59e-05  1.18e-04  1.48e-03
## 1102 -4.53e-02 -7.55e-02  7.48e-02  2.15e-02  3.69e-02 -1.84e-03  2.73e-02
## 1103  6.14e-04 -4.91e-04  8.32e-04 -3.27e-04 -7.18e-04  4.49e-05 -2.89e-03
## 1104  1.75e-03 -1.92e-03  2.29e-03 -1.94e-05 -2.19e-03  1.32e-03  1.60e-03
## 1105 -7.37e-04 -1.54e-04  1.37e-03 -4.90e-04 -1.06e-03  1.31e-03  3.42e-03
## 1106 -1.79e-03 -3.62e-04 -4.76e-04 -5.59e-04  1.37e-03  7.43e-04  1.45e-03
## 1107 -4.32e-03 -2.22e-03  2.27e-03  7.81e-03  4.37e-03  6.10e-05  8.99e-04
## 1108  1.84e-02  2.47e-02  1.23e-02 -6.61e-03 -3.23e-02 -3.37e-03  7.03e-05
## 1109 -4.82e-03 -9.19e-03  5.24e-04 -5.02e-03  2.39e-03 -8.58e-04 -1.41e-03
## 1110  3.62e-04 -2.42e-02 -1.04e-04 -2.06e-02 -8.42e-03 -1.00e-02  3.37e-04
## 1111  6.13e-04  4.23e-04  4.55e-05 -1.23e-03 -1.10e-03  1.36e-04  1.47e-04
## 1112 -1.23e-02  1.12e-04  6.80e-03  7.14e-03  8.40e-03  4.52e-03  2.90e-03
## 1113 -2.41e-03 -7.23e-03 -1.19e-03 -4.32e-03  2.97e-04 -1.93e-03 -9.13e-04
## 1114 -6.54e-03 -3.31e-02 -4.43e-03 -4.71e-03  1.57e-02  8.01e-04 -4.13e-03
## 1115 -1.41e-03 -1.56e-03  3.58e-04 -5.82e-04  2.79e-03  2.72e-03 -4.59e-04
## 1116 -4.78e-04 -7.73e-04  2.10e-03 -1.99e-03 -1.65e-03 -7.93e-04  2.84e-04
## 1117  3.06e-03 -1.99e-03 -1.69e-03 -1.77e-03 -2.12e-03  1.19e-03 -5.22e-04
## 1118 -1.20e-03 -7.59e-03  7.13e-04 -3.30e-03  1.11e-03  3.00e-03  1.78e-05
## 1119  4.65e-03 -1.20e-02 -9.36e-03 -5.76e-03  1.29e-02  7.87e-03  3.14e-04
## 1120 -5.13e-03 -6.29e-02 -1.68e-03  1.29e-02  3.62e-02 -8.88e-04 -7.64e-03
## 1121  6.06e-03 -5.74e-03  3.37e-03 -1.06e-02 -6.51e-03 -1.35e-03  1.98e-03
## 1122  3.90e-04  8.33e-05  1.64e-04 -7.07e-04 -1.26e-03 -1.90e-04 -1.59e-05
## 1123 -6.31e-04  2.54e-04  2.01e-03 -6.79e-04  1.93e-04 -1.02e-03  3.12e-04
## 1124  2.71e-03  4.84e-03  3.73e-03  2.51e-03  1.61e-04 -7.34e-04  1.73e-03
## 1125 -1.19e-02 -6.12e-04  9.49e-03  4.35e-02 -1.36e-03  1.54e-03 -5.73e-04
## 1126  1.60e-03  2.32e-03  1.28e-03  3.25e-03  3.03e-03 -1.30e-03  4.41e-04
## 1127  5.05e-06  7.20e-06  7.86e-06  1.05e-05 -3.86e-06 -2.43e-06  1.44e-05
## 1128  7.73e-06  7.89e-04  7.52e-04  1.57e-04 -3.80e-04 -8.42e-04  1.29e-04
## 1129 -9.26e-04 -7.10e-04 -1.73e-03 -3.90e-03  3.78e-03  3.24e-03 -3.04e-04
## 1130  1.45e-02  2.22e-02  8.79e-03 -2.10e-03 -1.28e-03  7.40e-03  1.50e-02
## 1131 -2.64e-03  1.25e-03  1.42e-03  5.06e-03  9.71e-04 -5.19e-03 -4.56e-03
## 1132  1.75e-04 -4.65e-04 -1.35e-04 -3.49e-04 -9.93e-04  1.20e-04 -4.31e-04
## 1133  1.32e-02  5.89e-03 -1.87e-03 -9.28e-03 -5.88e-03 -1.35e-02 -3.72e-03
## 1134 -1.00e-03  1.21e-03 -7.43e-04  1.10e-03  1.18e-04  2.66e-04 -3.39e-04
## 1135  1.18e-04  1.05e-04  3.25e-05 -4.75e-05 -1.36e-05 -6.21e-05 -1.14e-04
## 1136  4.70e-03 -5.45e-03  6.91e-03  7.26e-03  3.53e-04 -8.95e-03 -2.73e-02
## 1137 -2.43e-03 -1.66e-04 -9.48e-04  5.93e-03  2.59e-03  2.80e-03 -1.05e-03
## 1138 -3.14e-02  4.65e-03 -5.31e-03  1.93e-02  9.63e-03  1.32e-02  7.27e-03
## 1139  9.00e-03  4.85e-03 -1.31e-03 -1.12e-02 -2.84e-03 -2.60e-02 -3.89e-04
## 1140 -4.44e-06  1.58e-05  2.70e-05 -3.18e-05 -2.22e-05  9.19e-06  2.17e-05
## 1141  4.00e-04  1.32e-04  5.97e-04  2.12e-03  2.31e-04 -2.01e-03 -1.58e-04
## 1142 -5.55e-03  2.86e-03  4.26e-05  3.09e-03 -5.23e-04 -1.69e-03 -7.53e-04
## 1143  2.06e-03 -1.93e-03 -5.63e-04 -2.60e-03  2.60e-04  4.41e-04 -1.55e-04
## 1144  2.58e-03 -8.94e-04  2.62e-03  9.44e-03  6.58e-03 -1.63e-03 -4.72e-03
## 1145  9.22e-04 -9.30e-04  1.61e-03 -5.45e-04 -3.82e-04  1.37e-03  2.86e-04
## 1146 -5.69e-04 -2.51e-03  4.05e-04  7.01e-04 -9.56e-04 -2.43e-04 -1.54e-04
## 1147  2.31e-02 -8.98e-02  1.01e-03 -1.93e-02 -1.01e-03  1.13e-03 -1.86e-02
## 1148  9.66e-04 -5.35e-02 -1.05e-02 -1.01e-03  1.50e-02  7.15e-03 -4.52e-03

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## 1149 1.40e-03 4.60e-03 -2.67e-03 2.89e-03 -1.85e-03 -3.01e-03 -9.41e-04
## 1150 5.44e-03 9.10e-04 -2.00e-03 -8.07e-03 4.40e-03 -2.74e-04 -1.31e-03
## 1151 5.70e-03 -6.72e-03 9.85e-03 5.46e-03 -7.99e-03 1.26e-03 6.22e-03
## 1152 -8.66e-04 -1.91e-03 1.21e-03 1.25e-03 -1.63e-03 2.84e-04 -8.03e-04
## 1153 -1.51e-03 -2.64e-03 -2.24e-03 -5.48e-03 3.91e-03 5.34e-03 -4.15e-04
## 1154 -4.08e-03 2.38e-03 3.30e-03 3.85e-03 -3.12e-03 2.14e-03 1.54e-03
## 1155 2.34e-02 -8.33e-02 -4.30e-02 -3.97e-02 2.29e-02 -4.35e-03 -2.08e-02
## 1156 1.23e-03 -7.46e-03 -4.36e-03 -8.38e-03 -1.29e-04 5.30e-03 -2.18e-03
## 1157 -1.89e-02 7.19e-03 6.15e-03 2.76e-02 5.70e-03 -1.50e-02 -1.27e-03
## 1158 8.51e-04 -1.57e-04 3.19e-03 -1.69e-03 1.98e-03 2.35e-03 1.81e-03
## 1159 1.31e-03 -1.64e-03 2.71e-03 9.58e-04 -3.61e-04 -1.64e-03 -5.77e-03
## 1160 -4.14e-03 2.63e-02 1.65e-02 7.55e-03 9.48e-04 -1.54e-02 7.51e-03
## 1161 3.48e-03 -1.03e-04 -4.67e-04 1.25e-03 6.35e-03 -1.60e-03 2.71e-03
## 1162 1.56e-03 1.23e-03 -8.41e-03 -6.32e-04 1.03e-02 -2.39e-03 -3.77e-03
## 1163 2.05e-02 -4.37e-02 -7.26e-03 -5.67e-02 1.30e-03 1.80e-02 4.44e-03
## 1164 -9.49e-04 3.71e-03 -1.06e-03 -2.69e-03 2.16e-03 3.31e-03 -2.51e-03
## 1165 -2.01e-02 7.64e-03 1.89e-03 3.07e-02 -2.58e-03 1.93e-03 5.14e-03
## 1166 3.95e-03 -1.23e-03 9.90e-03 3.98e-03 -1.94e-03 4.80e-03 5.23e-03
## 1167 2.44e-03 -1.78e-03 2.80e-03 -1.12e-03 -3.19e-05 3.28e-03 -6.97e-04
## 1168 -4.43e-03 1.20e-03 -5.98e-03 -7.68e-04 2.72e-04 3.58e-03 -1.52e-03
## 1169 -4.73e-03 -1.58e-03 1.15e-03 3.70e-03 8.47e-04 4.25e-05 5.12e-04
## 1170 9.97e-05 8.17e-05 -1.11e-04 -1.91e-04 -1.50e-04 2.14e-04 3.71e-05
## 1171 5.82e-03 5.24e-03 5.64e-03 1.01e-03 -4.81e-03 -8.01e-03 -3.48e-03
## 1172 -5.86e-03 4.41e-02 -6.02e-02 5.57e-02 3.81e-02 -5.13e-02 -1.02e-02
## 1173 -7.83e-03 4.36e-04 6.18e-03 5.47e-04 2.73e-03 -9.61e-04 5.44e-04
## 1174 7.15e-02 -7.12e-03 -9.13e-02 -1.04e-01 -5.90e-03 2.22e-02 -2.81e-02
## 1175 -1.54e-02 6.21e-03 1.39e-02 1.42e-02 1.14e-02 -7.30e-03 6.29e-03
## 1176 1.15e-02 -7.43e-03 -2.67e-02 -2.39e-02 -3.47e-04 7.74e-03 -2.75e-03
## 1177 9.00e-03 -5.16e-02 -9.56e-03 -4.96e-03 2.00e-03 -6.64e-03 -6.27e-03
## 1178 5.90e-04 -1.16e-04 -4.31e-04 -1.13e-04 3.27e-05 -1.47e-04 -1.71e-04
## 1179 -3.24e-04 7.81e-04 2.58e-04 -2.59e-04 -1.68e-04 -3.14e-04 4.01e-04
## 1180 -7.14e-03 -3.88e-03 3.52e-03 -7.15e-03 3.27e-03 3.73e-04 1.77e-03
## 1181 -5.46e-03 1.93e-02 2.21e-02 1.31e-02 1.14e-02 -1.73e-02 4.69e-03
## 1182 -5.98e-03 1.51e-03 8.01e-03 8.71e-03 1.68e-03 -2.26e-03 3.88e-03
## 1183 1.33e-03 2.19e-02 1.12e-02 2.02e-02 -9.50e-03 -3.16e-03 3.28e-03
## 1184 -7.91e-03 -8.86e-05 7.40e-03 5.17e-03 7.07e-04 -3.95e-03 1.14e-03
## 1185 4.47e-03 1.01e-03 8.52e-04 -1.91e-04 -1.19e-02 9.81e-04 1.38e-03
## 1186 -4.58e-03 1.57e-03 2.57e-03 -1.96e-03 2.44e-03 4.17e-04 1.63e-03
## 1187 -3.79e-02 1.13e-03 1.85e-02 -2.22e-02 3.75e-02 -9.83e-03 -1.31e-03
## 1188 2.70e-03 1.13e-03 -2.38e-03 1.21e-03 -2.41e-03 -3.59e-04 -1.30e-03
## 1189 -1.99e-02 2.41e-02 2.28e-02 1.86e-02 -1.03e-02 5.29e-03 8.98e-03
## 1190 -2.17e-02 1.49e-02 2.42e-02 2.99e-02 -3.06e-03 -8.83e-03 7.88e-03
## 1191 -2.50e-02 3.49e-03 1.76e-02 1.91e-03 6.30e-03 -3.69e-03 2.74e-03
## 1192 -2.39e-02 2.69e-02 2.10e-02 3.55e-02 1.66e-03 -7.11e-03 1.08e-02
## 1193 -5.72e-04 -4.14e-04 2.86e-03 6.10e-04 1.02e-04 -1.73e-03 -2.15e-04
## 1194 3.31e-03 -1.57e-02 -4.05e-03 -4.18e-03 -5.31e-03 6.36e-03 3.33e-04
## 1195 1.36e-02 -1.79e-02 -3.13e-02 -4.26e-02 1.37e-02 6.65e-02 1.57e-02
## 1196 1.21e-02 -1.16e-02 -5.05e-03 -3.62e-02 1.60e-02 1.42e-02 3.90e-03
## 1197 7.14e-04 4.98e-03 -2.59e-03 1.28e-03 -3.01e-03 1.50e-03 9.84e-04
## 1198 1.92e-03 6.91e-03 -2.78e-03 -4.93e-04 -4.86e-03 -5.30e-03 -1.13e-03
## 1199 -3.01e-03 -3.97e-04 5.98e-04 -1.11e-03 -1.43e-03 -1.95e-03 -4.07e-04
## 1200 2.07e-02 1.11e-02 -1.17e-02 -7.70e-03 7.54e-04 2.98e-03 5.40e-03
## 1201 -2.58e-02 -1.25e-02 4.10e-03 -1.12e-04 1.80e-02 6.21e-02 3.00e-02
## 1202 4.40e-03 -1.02e-02 -1.38e-02 2.75e-04 2.90e-04 1.75e-02 5.92e-03

```

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## 1203  7.64e-03 -3.06e-02  1.32e-02  1.19e-02 -1.02e-01  2.94e-02  2.82e-02
## 1204 -5.95e-02  9.35e-03  1.57e-01  1.02e-01 -8.61e-02 -1.14e-01  5.39e-03
## 1205  4.59e-04  3.98e-03  6.46e-04 -2.23e-03  3.85e-03  2.36e-03 -1.99e-03
## 1206  8.59e-03  5.96e-03 -7.18e-03 -1.68e-03  2.11e-03 -3.16e-03  1.77e-04
## 1207 -1.13e-03  7.31e-04  2.66e-03  2.62e-03 -2.97e-03 -6.55e-03 -1.81e-03
## 1208 -9.13e-03 -1.48e-03 -1.66e-02 -6.56e-03  1.44e-02  6.47e-02  2.92e-02
## 1209  3.51e-03  7.56e-04 -1.94e-03  4.62e-03 -2.42e-03 -9.21e-03 -2.88e-03
## 1210  1.25e-03 -3.69e-04 -1.21e-02 -1.01e-05  8.39e-03  7.24e-03  1.79e-03
## 1211 -3.98e-02  1.13e-02  1.60e-02  1.89e-03  2.93e-02  5.06e-02  2.49e-02
## 1212  1.68e-03  6.37e-03 -1.70e-02  9.73e-03  4.90e-03 -9.42e-04  2.41e-03
## 1213 -7.56e-03  7.36e-05  4.89e-03  4.96e-03 -2.94e-03  3.14e-03  3.51e-03
## 1214 -1.02e-02  1.09e-02 -4.22e-03  6.11e-03  7.14e-03  2.97e-02  1.47e-02
## 1215 -1.43e-03  3.45e-03  1.85e-03  1.25e-03 -1.85e-04 -3.08e-03 -6.47e-04
## 1216  2.70e-02  1.54e-02 -1.40e-02 -2.81e-02 -1.94e-02 -2.88e-02 -9.65e-03
## 1217 -1.87e-03  5.59e-02  2.28e-02 -1.65e-02 -3.24e-02 -4.91e-02 -2.68e-02
## 1218  1.75e-04  2.22e-03  4.29e-03 -7.49e-04 -1.56e-03 -6.04e-03 -2.08e-03
## 1219  2.12e-03  1.04e-02  1.53e-02 -3.23e-03 -1.82e-02 -1.88e-02 -5.07e-03
## 1220 -2.43e-04  1.16e-04 -2.17e-04 -1.13e-04 -3.12e-04  8.12e-04  4.35e-04
## 1221  2.71e-02  1.50e-02 -1.15e-02  9.02e-03 -1.06e-01 -2.98e-01 -9.12e-02
## 1222  3.91e-05 -5.06e-04 -9.82e-04  8.37e-06  8.74e-04  7.42e-04  7.70e-05
## 1223  3.35e-02  1.73e-03  4.96e-03  3.08e-02 -2.92e-02 -7.39e-02 -3.45e-02
## 1224  2.41e-03 -1.76e-02 -5.71e-03 -7.19e-03 -8.23e-03  2.45e-02  1.36e-02
## 1225  3.36e-03 -3.04e-03 -5.02e-04 -1.15e-03  1.33e-02  1.89e-02  4.03e-03
## 1226  4.30e-03 -1.68e-03 -7.89e-04 -7.67e-04 -9.96e-05 -3.87e-03 -2.52e-03
## 1227 -3.57e-04 -3.48e-04 -1.96e-03 -8.03e-04 -2.54e-04  4.05e-03  1.96e-03
## 1228 -7.90e-04  4.16e-04  6.25e-04  4.08e-05 -1.02e-03  1.46e-03  7.50e-04
## 1229 -3.58e-02  4.00e-02 -5.46e-03  6.81e-02 -2.32e-02 -1.18e-02  8.23e-03
## 1230  1.14e-02  4.46e-03 -1.08e-02 -1.15e-02 -1.19e-02 -2.11e-02 -1.07e-02
## 1231  8.30e-03  1.38e-02 -3.80e-03  4.66e-03  1.57e-02  1.77e-03 -4.04e-03
## 1232 -1.28e-02 -7.03e-03  1.28e-02  4.06e-03 -5.71e-03 -3.74e-03  7.93e-04
## 1233 -2.79e-05 -2.05e-04 -1.41e-04  8.34e-05  3.90e-04  3.82e-04  1.10e-04
## 1234  5.49e-04  3.84e-04 -9.08e-05 -1.59e-04 -2.91e-04 -1.00e-04 -2.55e-04
## 1235  1.33e-02 -2.94e-03 -1.15e-02 -1.08e-02  4.66e-03  7.44e-03 -1.83e-03
## 1236  3.51e-02 -3.30e-02 -3.47e-02  2.21e-02  1.31e-01 -5.13e-02 -4.11e-02
## 1237 -1.28e-02 -1.09e-02  1.25e-02  7.28e-03  6.63e-03  1.71e-02  9.92e-03
## 1238 -1.50e-02 -1.63e-02  1.25e-02  6.60e-03 -1.78e-03  1.11e-03  1.54e-03
## 1239  9.50e-03 -2.68e-02 -4.41e-04  5.90e-03 -5.15e-02  3.92e-02  1.77e-02
## 1240 -1.24e-02 -5.71e-03  6.74e-03  1.15e-02  4.51e-03  1.44e-02  7.86e-03
## 1241 -5.96e-03 -3.38e-02  3.95e-02  4.72e-03 -4.57e-02 -3.03e-02 -5.18e-03
## 1242  2.65e-03  2.28e-02  7.61e-03 -5.19e-03  3.71e-03 -1.23e-02 -7.02e-03
## 1243  7.51e-03 -3.91e-03 -5.29e-03 -3.19e-03  1.83e-02 -2.03e-02 -1.15e-02
## 1244 -2.48e-02 -5.72e-03  1.38e-02 -1.06e-02  2.07e-02  2.51e-03  6.48e-04
## 1245  1.85e-02  7.24e-03 -1.15e-02 -1.53e-02  7.57e-03 -1.92e-02 -1.84e-02
## 1246 -1.38e-04  1.12e-03 -3.50e-04  6.79e-04 -2.96e-03  5.99e-04  7.63e-04
## 1247 -3.37e-05  6.57e-05  2.55e-05  2.38e-04  5.35e-04  3.13e-04  2.09e-05
## 1248  3.91e-02  2.25e-02 -2.98e-02 -1.36e-02 -1.52e-02 -5.37e-02 -2.80e-02
## 1249 -3.72e-02 -1.28e-02  3.26e-02  9.03e-03 -3.37e-02 -2.57e-03  1.01e-02
## 1250  3.34e-02 -1.15e-02 -1.04e-02  3.99e-03 -4.08e-03 -3.06e-02 -1.72e-02
## 1251  2.69e-04  2.71e-04  4.86e-04  2.10e-04 -1.10e-03 -2.05e-03 -6.03e-04
## 1252  5.77e-03  1.85e-03 -7.96e-03 -4.74e-03  1.98e-02 -1.26e-02 -6.43e-03
## 1253 -8.06e-03 -5.00e-03  3.54e-02  1.35e-03 -1.38e-02 -4.07e-02 -1.16e-02
## 1254  5.88e-03  1.10e-02 -5.56e-03  1.00e-03  2.25e-03 -5.08e-04 -2.68e-03
## 1255  9.00e-03 -2.92e-03  4.63e-03 -5.38e-04 -2.33e-02 -2.94e-02 -8.55e-03
## 1256 -1.12e-02 -4.20e-03  1.97e-02  9.54e-03  1.93e-03  3.06e-02  1.40e-02

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## 1257 7.92e-03 4.40e-02 -1.49e-03 9.28e-03 -4.49e-02 -3.54e-02 -1.01e-02
## 1258 4.22e-03 -4.54e-03 4.12e-03 5.12e-03 -3.11e-02 1.50e-02 9.65e-03
## 1259 4.47e-03 1.12e-02 -2.63e-02 1.57e-02 4.02e-03 -1.80e-02 -4.77e-03
## 1260 -4.78e-03 -1.64e-02 1.93e-03 -2.69e-03 1.01e-03 -3.19e-03 -3.22e-03
## 1261 7.01e-02 -8.01e-02 -4.77e-02 2.33e-02 -3.34e-02 4.54e-02 1.17e-02
## 1262 2.20e-04 -5.40e-04 3.76e-04 1.48e-03 -3.62e-04 -1.12e-03 -7.30e-05
## 1263 5.34e-03 1.50e-03 -5.86e-03 -4.19e-03 -8.53e-03 -5.56e-03 -5.61e-03
## 1264 -9.22e-03 -6.06e-03 1.13e-02 -4.18e-04 -1.93e-03 -5.15e-04 2.62e-03
## 1265 -3.28e-03 3.51e-03 1.93e-02 4.77e-03 -1.16e-02 1.78e-02 -2.66e-03
## 1266 -2.49e-03 1.16e-02 -5.44e-03 1.95e-02 5.26e-03 3.99e-03 2.73e-03
## 1267 -2.06e-03 2.01e-03 5.29e-03 1.18e-03 -4.94e-03 1.04e-03 1.83e-03
## 1268 -1.58e-04 5.05e-04 -2.89e-03 2.24e-03 2.26e-03 -9.49e-04 -1.06e-03
## 1269 8.35e-04 1.46e-04 -4.35e-04 -1.55e-03 -2.25e-04 1.57e-03 4.95e-05
## 1270 -9.20e-04 5.83e-03 2.47e-02 -1.07e-03 7.08e-03 2.19e-02 3.79e-03
## 1271 -3.31e-03 2.60e-03 2.32e-03 -7.80e-04 -2.36e-03 9.28e-04 7.51e-04
## 1272 2.19e-03 1.49e-03 -5.33e-04 -1.98e-03 -2.13e-03 1.40e-03 -1.35e-03
## 1273 9.18e-03 6.50e-03 -1.43e-02 -3.28e-02 -8.88e-03 2.59e-03 -7.59e-03
## 1274 6.95e-04 -4.04e-03 3.99e-03 -2.72e-03 -1.28e-03 7.40e-04 -1.70e-03
## 1275 -5.42e-03 4.81e-04 3.24e-03 5.95e-04 9.67e-03 8.49e-03 -3.36e-03
## 1276 6.66e-02 4.49e-02 -5.22e-02 -1.33e-02 -6.54e-03 8.45e-02 2.17e-02
## 1277 -2.02e-03 -7.33e-03 -7.46e-03 -1.12e-02 8.54e-03 -3.43e-03 -6.78e-03
## 1278 -2.03e-02 6.06e-03 1.62e-02 1.01e-03 -7.21e-03 -1.69e-02 -1.81e-03
## 1279 2.73e-03 9.63e-04 -8.74e-04 -1.32e-03 4.53e-03 5.95e-04 8.57e-04
## 1280 -5.54e-03 6.62e-03 6.46e-03 1.35e-02 -6.51e-03 2.52e-04 5.50e-03
## 1281 1.35e-02 5.76e-02 1.87e-02 3.39e-02 -4.23e-02 1.85e-03 -4.24e-03
## 1282 -8.40e-04 -6.41e-04 1.76e-03 1.43e-03 -2.10e-04 -3.44e-04 8.70e-05
## 1283 -3.45e-03 4.37e-03 -2.19e-03 -5.95e-03 -2.22e-03 1.12e-03 -1.42e-03
## 1284 -1.22e-03 3.73e-04 1.46e-03 2.85e-03 2.78e-03 3.11e-04 1.68e-03
## 1285 1.70e-03 -2.45e-03 1.91e-03 1.28e-02 3.33e-03 -2.97e-03 1.73e-03
## 1286 -5.82e-04 8.00e-04 6.52e-05 -9.07e-04 2.32e-03 2.65e-03 6.35e-04
## 1287 1.57e-02 -2.38e-02 1.11e-02 3.19e-02 3.04e-03 1.20e-02 6.19e-04
## 1288 -1.27e-02 -3.42e-03 1.98e-02 4.70e-03 -2.55e-02 -2.00e-02 -6.54e-03
## 1289 1.57e-02 9.92e-03 3.00e-03 -6.33e-03 -1.59e-02 8.57e-03 9.08e-03
## 1290 4.11e-02 8.96e-02 -4.46e-02 3.09e-02 6.31e-03 5.60e-03 3.30e-03
## 1291 9.14e-03 -7.19e-04 -7.96e-03 -2.69e-03 6.88e-04 1.13e-02 5.09e-03
## 1292 5.42e-05 2.09e-03 -3.19e-04 -5.27e-04 -2.01e-04 -8.69e-04 -5.35e-04
## 1293 2.27e-03 -1.14e-02 2.29e-02 -2.40e-02 -3.44e-02 4.10e-02 1.68e-02
## 1294 -2.49e-05 4.86e-04 -1.02e-03 -1.02e-03 9.25e-04 7.98e-04 -5.69e-04
## 1295 1.67e-03 -1.33e-02 -1.27e-02 -3.12e-02 3.01e-02 2.57e-02 6.99e-03
## 1296 9.34e-03 -4.57e-03 -1.69e-02 -5.58e-02 4.07e-02 2.46e-02 9.06e-04
## 1297 -3.56e-02 4.86e-02 -2.56e-02 -2.37e-02 1.88e-02 -2.21e-02 -5.58e-02
## 1298 8.70e-04 -6.02e-03 6.43e-03 1.92e-02 1.07e-02 5.62e-03 6.85e-03
## 1299 -2.64e-02 1.74e-02 3.31e-02 6.92e-02 -2.10e-02 -4.88e-02 -2.80e-02
## 1300 4.66e-03 -4.28e-03 -1.83e-02 -3.10e-02 2.74e-02 7.57e-04 1.03e-03
## 1301 -8.64e-03 -7.62e-03 4.61e-03 4.71e-03 1.12e-02 2.15e-04 3.55e-03
## 1302 5.57e-03 7.63e-04 -5.40e-03 -1.09e-02 -1.51e-02 8.45e-03 -2.64e-03
## 1303 8.70e-04 -3.22e-04 -1.31e-03 4.35e-04 1.34e-03 9.61e-04 1.37e-03
## 1304 1.09e-03 -4.48e-02 2.55e-02 6.76e-02 3.40e-02 1.07e-02 1.48e-02
## 1305 1.99e-02 -1.23e-02 -4.88e-03 -3.22e-02 3.90e-02 2.30e-02 -2.42e-02
## 1306 -4.22e-03 -4.39e-04 -5.54e-04 -3.32e-03 -3.99e-03 -7.66e-03 -4.41e-03
## 1307 -1.17e-03 -5.02e-06 -1.16e-03 1.66e-04 1.56e-03 -9.79e-04 -1.25e-03
## 1308 -3.21e-03 9.71e-04 5.44e-03 1.09e-02 -5.82e-03 -3.58e-03 -9.76e-04
## 1309 -5.44e-03 7.76e-04 1.03e-02 7.81e-03 -5.71e-05 1.83e-03 -4.77e-03
## 1310 -5.96e-02 3.74e-02 5.25e-02 -5.16e-02 -6.98e-02 -5.82e-02 -5.88e-02

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## 1311 -2.10e-02 -5.33e-03 3.30e-02 7.97e-03 9.71e-04 -1.22e-02 1.31e-02
## 1312 -1.14e-02 -6.91e-03 -5.03e-03 -1.63e-02 1.26e-02 7.71e-03 9.46e-03
## 1313 -8.98e-03 3.57e-03 1.27e-02 -4.66e-03 2.72e-02 -1.12e-02 6.25e-03
## 1314 -7.03e-06 -2.57e-06 -4.58e-06 -1.49e-05 1.19e-06 -1.78e-05 -1.00e-05
## 1315 -1.11e-02 -9.11e-04 1.20e-02 -2.88e-03 -7.56e-04 -9.78e-03 6.09e-04
## 1316 -3.85e-02 -8.15e-03 1.40e-02 1.78e-02 2.28e-02 1.06e-02 -2.47e-03
## 1317 -1.82e-02 4.87e-03 3.11e-02 1.33e-02 1.73e-02 -7.84e-03 2.10e-02
## 1318 8.18e-03 -2.84e-04 -4.86e-04 -8.59e-03 -8.53e-04 1.00e-02 5.98e-05
## 1319 9.88e-05 2.70e-05 -2.58e-04 1.14e-05 -4.72e-04 -3.34e-04 -4.99e-04
## 1320 9.05e-03 -1.48e-03 -8.19e-03 -1.78e-02 4.58e-03 1.18e-02 1.14e-02
## 1321 3.08e-03 -1.15e-03 -2.55e-03 -7.08e-03 1.40e-02 4.07e-03 5.59e-03
## 1322 -7.13e-03 2.84e-03 2.54e-03 -5.12e-03 -6.83e-03 -1.90e-03 -9.67e-04
## 1323 2.26e-03 2.79e-03 1.14e-02 1.09e-02 -3.98e-03 -1.17e-04 8.88e-03
## 1324 9.08e-03 1.64e-03 -3.56e-03 8.07e-03 2.08e-02 -2.35e-03 7.76e-04
## 1325 9.66e-03 -3.48e-03 -1.53e-03 -1.34e-02 6.28e-03 1.27e-02 -2.44e-03
## 1326 -1.71e-02 6.61e-03 1.52e-02 2.25e-02 -2.33e-02 -1.27e-02 1.92e-04
## 1327 1.59e-03 -1.33e-03 8.49e-03 7.14e-03 9.16e-04 -1.89e-03 5.49e-03
## 1328 8.63e-03 1.59e-03 -1.89e-03 1.26e-02 2.49e-02 3.36e-03 7.12e-03
## 1329 -5.97e-04 1.53e-03 1.38e-02 5.71e-03 -1.10e-02 2.99e-04 -4.86e-03
## 1330 3.21e-02 -2.10e-03 -7.54e-03 -2.62e-02 3.69e-02 1.69e-02 1.37e-02
## 1331 2.55e-02 -5.47e-03 -4.74e-02 -2.85e-02 9.19e-02 2.99e-02 2.16e-02
## 1332 4.51e-05 -1.08e-04 -2.39e-03 8.10e-04 4.24e-03 1.64e-03 -1.78e-03
## 1333 -1.59e-04 -1.00e-04 -2.78e-04 -1.90e-03 1.17e-03 -1.81e-04 -3.98e-05
## 1334 4.11e-03 1.80e-04 6.81e-03 1.09e-02 -3.31e-04 6.85e-04 9.40e-03
## 1335 4.60e-03 -3.92e-04 1.40e-04 1.37e-03 -1.79e-02 1.52e-03 -5.17e-03
## 1336 -1.30e-03 -2.46e-04 4.47e-04 1.31e-03 -1.11e-03 -5.05e-04 -9.62e-04
## 1337 4.60e-03 -8.06e-04 -2.08e-03 1.14e-02 4.59e-03 5.29e-03 4.49e-03
## 1338 5.10e-03 -6.82e-04 -6.88e-03 -8.37e-03 8.68e-04 3.31e-03 -3.89e-03
## 1339 -4.12e-03 2.77e-04 2.63e-03 7.96e-03 -8.73e-03 -1.77e-03 -7.46e-04
## 1340 -2.67e-04 -4.54e-04 -1.03e-03 2.68e-03 2.45e-03 -1.75e-03 7.10e-04
## 1341 3.25e-03 1.16e-03 -3.37e-03 -2.48e-02 1.21e-02 -3.61e-04 1.26e-03
## 1342 3.05e-04 1.07e-03 7.90e-04 -2.11e-03 -1.31e-03 2.14e-04 -1.96e-03
## 1343 2.96e-03 9.99e-03 -2.13e-02 3.76e-02 1.15e-02 -1.80e-02 -1.10e-02
## 1344 -1.85e-03 -3.36e-06 2.85e-03 -1.28e-03 5.67e-03 -3.28e-03 5.75e-04
## 1345 -8.78e-03 5.36e-03 1.84e-02 -7.18e-02 6.03e-03 -1.19e-02 2.18e-02
## 1346 6.94e-04 2.09e-03 8.83e-03 -6.66e-03 -4.20e-03 -8.26e-03 6.07e-03
## 1347 6.32e-03 3.80e-04 -4.70e-03 -3.30e-03 -3.25e-03 4.25e-03 9.95e-04
## 1348 -3.02e-05 -1.74e-05 2.35e-04 -2.88e-05 -1.32e-04 1.72e-05 1.56e-04
## 1349 -6.68e-04 3.03e-06 4.05e-04 7.81e-04 1.17e-04 -3.59e-04 -6.06e-04
## 1350 -3.15e-03 1.49e-02 -9.36e-03 -9.89e-04 6.04e-03 2.51e-03 -1.41e-02
## 1351 -1.64e-03 5.15e-04 1.44e-03 1.52e-03 4.93e-04 -6.35e-04 1.13e-03
## 1352 -5.17e-03 -4.45e-03 -5.78e-03 -1.42e-02 2.00e-02 9.83e-03 1.03e-02
## 1353 -7.18e-03 -8.06e-04 2.45e-04 -1.55e-03 8.58e-03 -6.06e-03 5.21e-03
## 1354 1.40e-02 -6.02e-04 -1.34e-02 -2.08e-02 1.21e-02 7.60e-03 1.60e-03
## 1355 7.42e-03 -2.31e-02 -3.55e-02 -2.79e-02 5.93e-02 2.04e-02 4.73e-03
## 1356 2.87e-02 -2.12e-02 -1.36e-02 -1.33e-02 2.87e-02 3.17e-02 3.11e-02
## 1357 9.93e-03 -1.73e-02 -1.44e-03 8.83e-03 1.20e-02 1.65e-02 1.07e-02
## 1358 8.05e-04 2.78e-04 8.87e-04 2.02e-03 -1.49e-03 -1.22e-03 1.81e-03
## 1359 -1.26e-03 9.56e-04 -3.79e-04 7.70e-03 6.29e-03 2.39e-04 6.99e-03
## 1360 -1.84e-03 1.11e-02 1.33e-02 4.82e-02 -3.38e-02 -2.94e-02 -1.15e-02
## 1361 9.10e-03 5.35e-04 6.14e-03 5.82e-04 -7.47e-03 5.69e-03 8.24e-03
## 1362 4.99e-05 7.28e-04 -3.29e-04 1.73e-03 -5.18e-04 1.23e-04 -1.12e-03
## 1363 2.52e-03 2.96e-03 9.04e-04 9.66e-03 -8.07e-03 -5.43e-03 -5.32e-03
## 1364 2.78e-03 2.03e-03 -2.30e-03 -7.65e-03 -5.26e-03 1.27e-03 -2.07e-03

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## 1365 -4.79e-03 -1.95e-03 4.97e-05 -2.42e-03 3.68e-03 -6.79e-03 -1.70e-03
## 1366 6.87e-02 2.66e-02 3.90e-02 1.35e-01 -1.43e-01 6.81e-02 2.04e-02
## 1367 2.23e-02 5.98e-03 2.45e-03 -1.93e-02 9.47e-04 1.45e-02 1.84e-02
## 1368 5.01e-04 5.09e-03 7.53e-03 1.64e-03 -5.63e-03 5.04e-03 1.52e-03
## 1369 -5.01e-03 -2.54e-03 7.38e-03 -4.42e-03 5.33e-03 8.39e-03 4.42e-03
## 1370 -7.40e-03 1.35e-02 -6.10e-03 -1.03e-02 5.63e-03 3.49e-03 -4.31e-03
## 1371 -3.26e-03 3.15e-03 1.00e-02 6.06e-03 -5.32e-03 1.44e-03 -4.31e-04
## 1372 4.32e-03 -4.95e-03 -5.24e-03 1.74e-03 1.85e-03 -3.06e-03 -1.59e-03
## 1373 -5.49e-03 2.98e-02 -1.25e-02 -8.47e-03 2.50e-02 2.41e-02 2.18e-03
## 1374 1.07e-03 -4.32e-04 -1.49e-03 6.32e-04 2.89e-04 -2.27e-03 -9.93e-04
## 1375 -7.41e-05 1.49e-03 -2.78e-03 -3.65e-03 7.96e-04 -5.54e-05 2.52e-04
## 1376 9.96e-03 -9.42e-03 -5.19e-03 2.84e-03 -9.55e-03 -1.47e-02 1.02e-03
## 1377 1.35e-02 -8.84e-03 -1.37e-02 -1.18e-03 -3.20e-03 -7.76e-03 -3.03e-03
## 1378 2.56e-03 -3.65e-03 -4.14e-03 1.06e-04 1.66e-03 -1.09e-03 9.24e-04
## 1379 -1.75e-02 2.97e-02 8.71e-03 -2.89e-03 -1.25e-03 1.08e-02 9.44e-04
## 1380 -5.12e-03 5.63e-03 7.43e-03 -1.84e-03 2.30e-04 1.15e-02 5.14e-03
## 1381 -1.96e-03 8.38e-04 1.20e-03 -5.65e-05 1.53e-03 5.99e-04 2.75e-04
## 1382 1.96e-02 -2.30e-02 3.09e-03 1.51e-02 -9.54e-03 -8.07e-03 3.48e-03
## 1383 -7.97e-03 2.18e-03 1.26e-02 -4.09e-03 -8.44e-03 8.91e-03 4.14e-03
## 1384 -1.63e-02 1.97e-02 6.88e-03 -6.86e-04 1.20e-03 1.20e-02 3.01e-03
## 1385 3.14e-03 5.94e-03 6.51e-03 -5.10e-03 3.82e-03 1.15e-02 1.48e-03
## 1386 9.91e-03 1.09e-02 -1.08e-02 -1.01e-02 1.61e-03 1.09e-02 -4.57e-03
## 1387 -3.54e-03 2.44e-02 6.81e-03 4.69e-03 -5.86e-03 4.79e-03 3.92e-04
## 1388 -1.30e-03 2.62e-03 -2.94e-03 -8.56e-03 7.54e-03 1.03e-02 1.13e-03
## 1389 -2.63e-04 2.94e-02 -2.64e-03 -6.76e-03 8.90e-03 2.34e-02 4.35e-03
## 1390 -3.86e-02 6.36e-02 9.39e-02 2.89e-02 -3.83e-02 3.47e-02 2.96e-02
## 1391 8.62e-03 1.66e-03 -6.35e-03 2.82e-02 -1.43e-02 -1.60e-03 1.34e-03
## 1392 -1.92e-03 1.59e-02 -1.06e-03 -3.30e-03 1.55e-03 8.60e-03 -4.28e-04
## 1393 -5.81e-02 3.07e-02 5.46e-02 -1.19e-02 1.32e-02 3.80e-02 1.85e-02
## 1394 6.53e-03 -2.64e-02 3.10e-02 -7.64e-03 2.57e-02 3.00e-02 -9.97e-03
## 1395 -1.99e-02 2.23e-03 2.03e-02 8.25e-03 6.96e-03 -2.24e-03 -2.12e-03
## 1396 8.81e-03 3.67e-03 -1.96e-03 -1.39e-03 -1.12e-02 -6.74e-03 8.15e-03
## 1397 -1.50e-03 4.57e-03 7.07e-04 6.32e-03 1.93e-03 2.34e-03 4.77e-03
## 1398 1.30e-02 1.56e-02 -1.32e-02 -1.10e-02 -4.37e-03 -4.20e-03 1.05e-02
## 1399 -2.88e-02 2.66e-02 2.70e-02 6.57e-03 1.85e-03 -8.28e-03 9.65e-03
## 1400 -4.79e-02 2.99e-02 -1.99e-03 -3.81e-02 1.85e-02 -5.08e-02 -2.88e-02
## 1401 -1.18e-01 8.80e-02 9.75e-02 1.25e-02 -1.99e-02 -6.44e-02 1.77e-02
## 1402 -1.31e-02 2.74e-02 7.30e-03 -3.35e-02 9.73e-04 -3.77e-03 -3.42e-03
## 1403 -1.09e-01 8.89e-02 7.25e-02 2.13e-02 -5.07e-03 -2.38e-02 2.33e-02
## 1404 1.27e-02 6.19e-03 1.54e-02 -2.82e-02 -2.14e-02 7.60e-03 -2.77e-03
## 1405 6.53e-03 4.55e-02 7.29e-03 1.20e-02 4.39e-03 -2.51e-03 3.69e-03
## 1406 4.28e-03 -4.43e-03 -5.89e-03 -1.03e-02 3.03e-03 1.33e-02 -1.71e-03
## 1407 3.79e-04 -6.81e-04 -6.68e-04 -9.08e-04 4.84e-04 7.79e-05 -5.24e-04
## 1408 1.87e-02 -2.27e-03 -4.53e-03 -1.32e-02 -2.27e-02 8.80e-03 -6.48e-03
## 1409 -2.46e-03 -1.97e-02 3.08e-02 -6.25e-03 -2.50e-02 1.11e-02 -1.09e-02
## 1410 4.53e-03 -4.21e-03 9.49e-03 -2.75e-03 -1.14e-02 1.74e-03 -5.74e-03
## 1411 5.07e-04 -5.89e-03 2.11e-02 -1.18e-02 -1.41e-02 -1.64e-04 2.12e-03
## 1412 7.92e-04 -5.45e-03 1.22e-02 -7.30e-03 -4.02e-03 3.47e-03 -9.90e-04
## 1413 1.61e-03 -4.38e-03 6.49e-03 -6.36e-04 -6.87e-03 -1.05e-03 -1.77e-03
## 1414 3.94e-03 -3.47e-03 9.28e-03 2.20e-03 -8.49e-03 -2.82e-03 -6.30e-03
## 1415 -2.48e-03 -3.23e-04 7.57e-03 3.12e-03 -5.89e-03 -6.79e-04 -1.09e-03
## 1416 5.89e-03 -7.11e-03 -1.38e-02 -2.91e-03 1.41e-02 5.86e-03 -5.64e-03
## 1417 -2.95e-02 1.17e-02 2.27e-02 -4.35e-03 -2.33e-03 -2.42e-02 -8.96e-03
## 1418 1.98e-03 -4.08e-03 1.15e-03 5.10e-04 -2.15e-03 -5.12e-03 -3.74e-03

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## 1419 -1.26e-03  3.75e-03 -8.41e-04 -1.24e-03  6.19e-04 -4.63e-03 -1.82e-03
## 1420 -5.50e-05  7.45e-04 -1.75e-03 -8.01e-04 -7.16e-05 -2.27e-03  1.61e-03
## 1421  1.05e-02 -9.08e-03  1.86e-03 -1.58e-02 -2.47e-03  8.43e-03  2.26e-03
## 1422  2.20e-03 -1.23e-03 -2.60e-03 -5.37e-04 -3.90e-04 -2.42e-03 -1.76e-03
## 1423  1.03e-02 -3.67e-03  7.53e-03 -7.41e-03 -5.40e-03  4.43e-03  1.08e-02
## 1424 -1.25e-02  3.58e-03  1.03e-02 -1.08e-02  4.79e-04 -8.41e-04  1.31e-03
## 1425  6.84e-04  5.95e-04 -5.76e-04 -1.40e-04  1.05e-04  2.30e-04  1.75e-04
## 1426  7.03e-03 -8.29e-03  3.92e-04 -1.01e-02  1.61e-02  9.01e-03 -1.02e-03
## 1427  1.80e-03  5.77e-04 -2.61e-03  3.13e-03  3.15e-03  4.74e-04  6.61e-04
## 1428 -2.89e-02  1.43e-05  2.48e-02 -5.03e-03 -7.69e-03  7.28e-03 -2.10e-03
## 1429 -1.51e-02 -1.05e-02  3.87e-02 -9.93e-02 -1.01e-01  1.85e-01  8.16e-02
## 1430 -1.57e-03  2.60e-03 -1.30e-03 -1.99e-04 -5.62e-04 -7.50e-04 -6.51e-04
## 1431 -4.29e-03  8.06e-03  1.96e-02 -5.24e-02 -2.70e-02  4.85e-03 -6.52e-03
## 1432  9.66e-03  3.40e-04 -5.31e-03 -1.70e-02 -9.73e-03 -3.45e-03 -6.70e-03
## 1433  1.46e-03  1.87e-03 -6.60e-03 -2.55e-03  8.55e-03 -9.33e-04  1.97e-03
## 1434 -2.81e-02  3.86e-02  1.63e-02 -3.73e-02 -1.05e-02  2.84e-03 -5.23e-03
## 1435 -5.33e-04 -1.44e-03 -1.46e-03 -2.50e-03  8.75e-03  3.34e-03  4.52e-04
## 1436  7.34e-03  1.65e-02 -6.26e-02  4.25e-03  2.72e-02 -2.61e-02 -2.41e-02
## 1437 -4.75e-03 -1.76e-03 -1.38e-03 -2.36e-03  9.15e-03 -6.06e-03 -6.36e-03
## 1438 -1.90e-03 -2.10e-03  1.56e-03  1.37e-03 -3.35e-04  1.14e-03 -2.08e-03
## 1439  1.59e-02 -4.87e-03 -1.43e-02 -7.70e-03  5.96e-03 -4.49e-04 -2.77e-04
## 1440  7.10e-03 -1.25e-02  2.65e-03 -3.59e-03  2.26e-03  3.84e-02  1.43e-02
## 1441  9.40e-04  1.23e-03 -2.60e-03  4.81e-03  2.26e-03 -2.28e-03  1.12e-03
## 1442  7.56e-03 -8.03e-03  3.90e-02  8.24e-03 -1.07e-02  5.53e-03  1.31e-02
## 1443  1.57e-04 -2.12e-03  1.65e-03  1.80e-03 -8.14e-04 -4.82e-03 -1.85e-03
## 1444  3.09e-02 -2.24e-02 -1.36e-02 -3.21e-02  1.85e-02  3.39e-02  1.22e-02
## 1445 -3.95e-02  4.23e-02  1.15e-02 -2.36e-02 -4.72e-02 -4.93e-03 -2.29e-03
## 1446  1.63e-04  5.83e-05 -4.69e-04 -2.23e-04  2.42e-06  3.90e-05 -2.96e-04
## 1447  3.01e-03  9.03e-03 -1.89e-03  4.07e-03 -4.36e-03 -4.54e-04 -2.04e-04
## 1448  4.02e-02 -1.89e-03 -7.64e-02  3.48e-02  6.56e-03 -3.69e-02 -1.73e-02
## 1449 -1.66e-02  4.50e-03  5.96e-04  6.15e-03 -5.74e-03 -8.72e-03  1.73e-05
## 1450 -4.54e-04  4.71e-04  3.50e-03 -4.22e-03 -8.26e-03 -2.10e-03 -4.39e-04
## 1451 -1.64e-03  2.15e-03  1.06e-03  2.20e-03 -1.29e-03 -5.51e-03 -2.26e-03
## 1452  1.31e-02  7.57e-03 -4.24e-03 -3.63e-02 -2.73e-02 -1.22e-03 -9.30e-03
## 1453 -9.13e-03 -5.30e-03  6.60e-03  1.55e-03 -1.68e-03 -1.44e-03 -3.79e-03
## 1454 -6.89e-03 -1.01e-01  3.90e-02 -9.73e-04  6.68e-02  3.18e-02  1.29e-02
## 1455 -4.61e-03  2.69e-03  1.06e-02 -1.46e-02 -1.62e-02 -2.23e-03 -1.43e-03
## 1456 -1.40e-04 -1.73e-02  1.32e-03  1.01e-02  2.34e-03 -1.91e-02 -1.07e-02
## 1457 -1.34e-02 -2.11e-02  1.76e-02 -2.05e-02  2.93e-02  7.68e-03  1.93e-03
## 1458  1.71e-03 -5.47e-03  3.48e-03 -1.01e-02 -7.10e-03  4.13e-03 -1.44e-03
## 1459 -1.67e-02  1.31e-02  1.37e-02 -3.09e-02 -2.14e-02 -2.88e-03 -4.55e-03
## 1460 -4.13e-03  1.49e-02 -6.60e-03  8.20e-03 -3.43e-03  1.25e-03  1.38e-03
## 1461  1.62e-04 -1.40e-04 -3.23e-04  3.40e-05  2.44e-04  4.20e-04  1.84e-04
## 1462  2.62e-02  3.56e-02 -6.00e-03  3.60e-02  1.28e-02  1.84e-02  1.14e-02
## 1463  2.33e-02 -2.75e-02  3.02e-02 -6.63e-03  7.32e-04  1.56e-02  7.00e-03
## 1464 -5.45e-04  2.24e-03 -5.84e-05 -8.99e-05 -1.28e-04  8.94e-04  3.22e-04
## 1465 -1.20e-02  1.16e-02  1.31e-02 -1.76e-02 -9.59e-03 -1.50e-04 -4.98e-03
## 1466  3.03e-04 -8.64e-03  4.11e-03 -1.48e-02 -1.17e-02 -4.85e-04 -4.23e-03
## 1467 -7.92e-03  7.83e-03  1.73e-02 -2.69e-02 -1.81e-02  3.24e-04  3.23e-03
## 1468 -1.09e-01  2.30e-03  4.36e-02 -8.50e-03 -7.87e-03 -1.98e-02 -4.21e-03
## 1469  1.46e-02 -2.04e-03 -8.11e-03  7.40e-03 -2.26e-03  2.27e-03  4.54e-04
## 1470 -4.26e-03 -7.78e-03  1.13e-02 -3.30e-03 -1.05e-02 -5.82e-04  3.32e-04
## 1471  1.98e-02 -4.87e-03 -1.83e-02 -1.30e-02  2.19e-03  1.12e-03  2.00e-03
## 1472 -1.70e-02  8.11e-03  2.55e-02  6.05e-03  6.98e-03  6.35e-03  4.63e-03

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## 1473 -1.02e-03  5.26e-04  4.40e-03 -3.83e-04  1.75e-03  4.88e-03  3.37e-03
## 1474 -9.26e-03 -1.33e-03  3.31e-03  2.96e-04 -2.90e-04  3.98e-04 -4.84e-03
## 1475 -1.21e-02  2.27e-03  1.83e-03  5.46e-03 -5.80e-03 -3.29e-03 -4.24e-03
## 1476 -3.30e-02  8.83e-03  2.76e-02 -1.91e-02 -1.43e-02  3.33e-03 -3.07e-03
## 1477 -2.36e-03 -2.48e-03  3.65e-03 -3.43e-03 -4.03e-03 -2.71e-03 -3.13e-03
## 1478 -1.05e-02  3.04e-03  8.26e-03 -8.10e-03 -1.56e-03 -5.15e-03 -5.19e-03
## 1479 -4.31e-03 -1.91e-02  5.66e-03 -1.62e-03 -1.47e-02 -6.93e-04 -5.22e-03
## 1480 -7.80e-04 -2.23e-03  5.17e-04 -1.37e-03 -3.60e-04 -2.06e-03 -1.15e-03
## 1481 -6.72e-03  9.09e-04  1.33e-02 -3.09e-03 -6.77e-03  4.49e-03 -2.84e-04
## 1482 -6.62e-03  4.71e-03  7.61e-03 -9.95e-03 -1.53e-02  4.14e-03  2.46e-05
## 1483  1.09e-03 -3.17e-04  6.24e-04  7.04e-04 -1.48e-03 -8.48e-03 -3.91e-03
## 1484  5.89e-03 -7.53e-03 -1.70e-02 -1.17e-02  1.62e-02 -6.45e-03  5.73e-04
## 1485 -1.40e-02  9.95e-03  2.16e-02 -3.38e-02 -1.21e-02 -1.30e-03 -2.92e-03
## 1486 -1.48e-03  3.13e-04  1.42e-03  1.31e-04 -1.09e-03 -1.07e-04 -4.93e-04
## 1487  6.88e-02 -2.50e-03 -1.46e-02 -1.31e-01 -2.20e-02  5.44e-02 -9.02e-03
## 1488 -1.66e-03 -2.89e-03  5.65e-03  3.74e-04  2.74e-03  3.42e-03  2.24e-03
## 1489 -8.14e-03 -5.55e-03  1.38e-02 -8.24e-05 -4.08e-03 -3.90e-03  1.02e-05
## 1490 -4.98e-05  1.82e-04  1.91e-05  2.06e-05 -1.98e-05 -1.03e-05  9.59e-06
## 1491  5.39e-03 -2.14e-03 -1.69e-03  8.73e-03  2.23e-03  1.44e-03  1.06e-03
## 1492  2.22e-03 -4.64e-03 -1.53e-02 -9.93e-03  1.55e-02  2.88e-04 -8.84e-03
## 1493 -6.70e-04 -1.94e-03  1.80e-03  1.48e-03  6.22e-04  1.24e-03 -1.06e-04
## 1494  1.14e-02  1.09e-02 -5.30e-03 -7.07e-03 -1.71e-02 -9.67e-03 -3.53e-03
## 1495  5.91e-02  9.96e-03 -8.61e-03  2.03e-04 -2.54e-02 -5.72e-02 -2.84e-02
## 1496  6.33e-02  1.97e-02 -2.37e-02  1.91e-02 -3.31e-02 -1.54e-02 -1.07e-04
## 1497 -6.61e-02  8.36e-02  8.82e-02  7.84e-02 -1.79e-01 -1.11e-02 -1.53e-02
## 1498  4.33e-03  5.43e-04 -1.80e-03 -4.15e-03 -2.63e-03 -6.76e-04  1.96e-03
## 1499  2.97e-02 -1.53e-02 -6.14e-03  2.68e-03 -4.35e-03 -7.97e-03 -1.74e-03
## 1500  5.58e-03 -4.99e-03 -1.56e-03 -1.28e-02 -9.89e-04 -4.62e-03 -1.75e-03
## 1501 -7.73e-05 -2.29e-02  4.27e-03 -4.72e-04  8.49e-03 -9.17e-03 -1.71e-04
## 1502  1.02e-02  1.40e-02  5.27e-03  1.11e-02 -2.11e-02 -2.56e-02 -4.08e-03
## 1503  1.34e-04  1.95e-02  2.07e-03 -2.47e-03 -1.75e-02 -1.39e-02 -2.61e-03
## 1504  6.99e-02  5.40e-03 -6.73e-03 -4.76e-02 -4.77e-02 -1.41e-04 -1.62e-02
## 1505  2.04e-03 -1.45e-03  7.66e-04  7.48e-03 -8.87e-04 -8.40e-03  2.41e-04
## 1506  5.73e-03  1.02e-02  4.40e-04 -1.68e-02 -3.52e-02 -1.37e-02  3.09e-03
## 1507 -1.77e-03 -1.30e-02 -2.80e-03  3.16e-03 -6.23e-03 -4.86e-04 -2.76e-03
## 1508  1.03e-03  2.42e-03 -1.11e-03 -9.35e-03 -5.92e-03 -1.94e-03 -4.36e-03
## 1509 -2.94e-04  3.55e-02  2.27e-02 -1.12e-02 -5.34e-02 -8.05e-03  1.26e-03
## 1510  2.33e-02 -5.01e-03 -1.55e-02 -1.88e-02 -1.90e-02 -1.32e-02 -1.02e-02
## 1511 -1.67e-03 -1.83e-04  4.58e-04  1.67e-03 -3.25e-03 -1.31e-03 -1.08e-03
## 1512 -3.19e-03 -6.49e-03 -8.04e-03 -2.29e-03  2.90e-02  6.06e-04  1.20e-03
## 1513 -5.99e-02  3.42e-03  3.46e-02  2.47e-02 -2.75e-02 -1.93e-02 -7.09e-04
## 1514 -9.80e-03 -1.09e-02  7.73e-03  1.25e-02  2.41e-02 -5.24e-04  2.73e-03
## 1515  8.47e-04  1.02e-03  1.51e-03  1.12e-04 -1.41e-03 -6.33e-04  5.98e-04
## 1516  2.05e-02  2.81e-02 -1.06e-02 -8.08e-03 -2.58e-02 -1.45e-02 -3.09e-03
## 1517  2.06e-02  1.40e-02 -1.14e-02 -1.78e-02 -6.19e-03 -1.71e-03 -2.18e-02
## 1518  2.40e-02  2.74e-02 -1.83e-02 -7.64e-03 -3.90e-02  1.81e-02  7.26e-03
## 1519  7.45e-02 -1.15e-03 -3.51e-03  3.28e-02 -4.02e-02 -3.03e-02 -1.16e-02
## 1520  1.03e-02  3.78e-03 -5.24e-03 -7.38e-03 -4.81e-03  4.26e-03 -2.81e-03
## 1521  5.12e-04  5.21e-03 -4.03e-03 -4.39e-03 -5.11e-03 -4.29e-03 -6.64e-03
## 1522 -7.18e-03  3.26e-02  1.32e-02  6.25e-03 -4.23e-02 -1.14e-03 -1.77e-03
## 1523  2.73e-02 -1.75e-02  1.40e-02  1.45e-02 -1.45e-02 -3.42e-02 -8.25e-03
## 1524  1.16e-02 -4.05e-02  4.06e-02  3.79e-03 -8.99e-03 -1.20e-02  3.58e-03
## 1525  1.42e-02 -2.05e-02 -8.15e-03 -8.21e-03 -3.21e-04 -8.56e-03 -6.14e-03
## 1526 -3.74e-03 -1.71e-03 -2.30e-04  5.07e-04  2.50e-03  8.66e-03  3.91e-03

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## 1527  6.37e-03  1.50e-02 -5.19e-03 -5.91e-03 -2.45e-02 -1.80e-02 -2.56e-03
## 1528 -5.56e-04 -1.09e-02  2.82e-03  2.91e-03  5.94e-03  7.43e-03  3.41e-03
## 1529  1.66e-02  5.28e-03 -1.33e-02 -2.60e-03 -5.67e-03 -5.36e-03 -3.11e-03
## 1530  2.79e-03  2.79e-03 -3.43e-03  6.19e-03 -1.75e-05 -5.20e-03  2.46e-04
## 1531 -2.17e-03  3.91e-03 -6.87e-04 -5.04e-04 -1.50e-03 -2.37e-03 -2.53e-03
## 1532  6.82e-03  1.67e-02 -2.16e-03  1.52e-02 -8.55e-03 -1.29e-02 -9.30e-03
## 1533  1.39e-02  2.32e-03 -1.11e-03 -2.52e-04 -1.54e-02 -2.85e-02 -5.55e-03
## 1534  1.62e-02  1.65e-02 -6.28e-03  5.36e-04 -3.21e-02 -1.62e-02 -3.32e-03
## 1535  9.42e-03  1.31e-02  5.19e-03  3.38e-04 -1.46e-02 -1.75e-02 -4.07e-03
## 1536 -3.36e-03  2.35e-03  2.35e-03  1.21e-03 -1.92e-03 -6.70e-03 -2.68e-03
## 1537  1.43e-02 -1.64e-02 -7.84e-03  2.85e-03  1.28e-03 -2.74e-02 -1.21e-02
## 1538  2.69e-02  2.16e-02 -1.60e-02 -6.35e-03 -2.42e-02 -2.91e-02 -2.51e-03
## 1539  1.19e-02  2.00e-03 -2.86e-03 -6.30e-03 -9.25e-03 -8.70e-04  2.83e-03
## 1540  1.03e-02  1.26e-02  1.72e-03  1.79e-03  7.95e-04 -1.43e-02 -1.08e-02
## 1541  2.93e-04 -1.58e-03  5.21e-04  1.29e-03 -1.43e-03 -4.97e-03 -1.62e-03
## 1542  1.28e-02 -2.13e-02  3.21e-02 -7.28e-04 -9.21e-03 -3.73e-02 -8.58e-03
## 1543  1.09e-02 -2.27e-03 -4.66e-03 -7.93e-03 -1.94e-02 -2.40e-02 -3.20e-03
## 1544  3.64e-04 -2.78e-04  1.53e-03 -1.54e-03 -1.00e-03  9.01e-04  8.19e-04
## 1545  4.14e-03 -2.88e-03  1.21e-02  3.25e-03 -1.86e-02 -1.05e-02 -4.36e-04
## 1546  2.12e-02  7.69e-03 -7.84e-03 -7.56e-03 -1.06e-02 -5.98e-03 -5.46e-03
## 1547  4.59e-03  2.96e-03  2.52e-04 -2.36e-03 -4.47e-03 -4.66e-03 -2.34e-03
## 1548  1.02e-01 -5.01e-02 -7.10e-02  1.58e-02  5.99e-03  9.75e-03  8.61e-03
## 1549  2.40e-04 -3.11e-04 -2.94e-05 -4.79e-05 -4.32e-04 -7.17e-05 -8.14e-05
## 1550  2.08e-03  1.46e-03 -4.84e-03 -1.75e-03 -2.13e-03 -1.36e-02 -5.40e-03
## 1551  2.62e-03  8.50e-03  9.11e-03  3.03e-03 -8.99e-03 -7.44e-03 -8.52e-04
## 1552 -7.86e-03 -2.79e-02  6.71e-02  2.03e-02 -2.28e-02 -3.70e-02  7.24e-03
## 1553  3.80e-03  1.16e-03 -1.92e-03 -1.03e-03 -4.07e-03 -1.88e-03 -3.67e-03
## 1554  8.97e-04  6.44e-03 -3.62e-03 -3.26e-03 -1.71e-02 -4.22e-03 -6.23e-03
## 1555  7.97e-03  6.03e-03 -1.61e-02  8.79e-04  1.19e-02  7.71e-04  1.72e-03
## 1556  6.62e-03  2.66e-03 -4.98e-03 -3.60e-03 -2.76e-03 -7.74e-04  2.84e-05
## 1557  8.73e-03 -3.31e-03 -1.29e-02 -6.08e-03 -8.32e-04 -1.59e-02 -4.97e-03
## 1558  4.02e-03  2.19e-03 -2.73e-03 -2.24e-03 -5.09e-03 -3.34e-03  5.00e-04
## 1559 -3.63e-03  2.52e-04  3.78e-03 -1.02e-02 -1.26e-02 -1.74e-03 -2.40e-03
## 1560 -5.04e-02  1.62e-03  7.71e-03  5.57e-02  5.30e-02 -1.63e-02  2.36e-02
## 1561  8.67e-04  8.05e-03  1.04e-03  8.66e-03  7.24e-04 -1.13e-03  2.37e-03
## 1562  1.66e-02  4.79e-03 -1.72e-02 -1.72e-02 -7.99e-03 -7.36e-03 -5.68e-03
## 1563  3.99e-04  3.19e-03 -3.09e-03  2.70e-03 -1.49e-03 -3.55e-03 -3.90e-03
## 1564 -4.90e-04  8.52e-04  4.29e-03  3.20e-04 -4.72e-03 -1.26e-03 -3.29e-03
## 1565  9.28e-04  4.83e-04 -6.90e-04  7.18e-04  1.09e-04  7.48e-04 -6.01e-05
## 1566  3.22e-04 -1.97e-03 -9.82e-03  1.18e-03  1.53e-02  4.40e-03 -1.09e-03
## 1567 -5.82e-03 -4.46e-04  2.77e-03  1.56e-02  1.21e-02  8.73e-03  5.69e-03
## 1568  6.48e-02  2.89e-04 -1.30e-02 -4.23e-02 -8.66e-02 -2.66e-02 -8.93e-03
## 1569 -5.65e-03 -1.25e-02 -3.93e-03  1.96e-02  1.25e-02  8.75e-03  5.10e-03
## 1570 -1.16e-02 -1.79e-02  2.07e-02 -5.48e-03 -2.61e-02 -1.28e-02  1.67e-03
## 1571 -6.95e-03 -7.02e-03  5.40e-03  9.58e-03  1.32e-02  6.74e-03  2.55e-03
## 1572 -2.77e-02 -4.97e-02  4.80e-02 -2.66e-02 -1.99e-02 -1.91e-02 -4.37e-03
## 1573  1.23e-02  3.11e-02 -1.28e-02 -7.92e-02 -2.07e-02 -7.97e-03 -8.55e-03
## 1574  3.44e-02  2.77e-02 -1.79e-02 -6.43e-03 -4.16e-02 -8.12e-03 -5.28e-03
## 1575 -1.46e-04 -3.57e-05  6.05e-05 -1.62e-05  2.64e-04 -1.58e-04 -4.70e-05
## 1576 -1.04e-03  2.90e-03  1.76e-03 -1.64e-03 -1.00e-02 -9.78e-03 -1.74e-03
## 1577  1.89e-03  5.71e-03 -4.30e-04 -1.67e-04 -6.68e-03 -7.80e-05  1.56e-03
## 1578 -2.56e-03  1.29e-03  1.56e-03  2.86e-03  3.04e-03  2.19e-03  9.26e-04
## 1579  4.85e-03  2.85e-03 -5.37e-03 -3.70e-03 -8.33e-03 -5.43e-03 -1.91e-03
## 1580  6.24e-03  3.13e-02 -6.99e-03 -4.94e-02 -2.82e-02 -2.46e-02 -1.18e-02

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## 1581  4.71e-04 -9.35e-04  4.88e-05 -7.61e-05  9.59e-04  1.22e-03  2.76e-04
## 1582 -3.61e-03  2.24e-03  4.58e-03  1.96e-02 -4.51e-03  6.06e-03  8.05e-03
## 1583  3.27e-03 -8.97e-04 -2.32e-03  1.08e-03 -3.40e-03 -3.23e-03 -1.13e-03
## 1584  5.27e-02  2.99e-03 -6.98e-02  6.51e-03 -4.92e-03 -2.79e-02 -1.67e-02
## 1585  6.75e-03 -4.52e-03 -1.45e-05  6.79e-03 -1.16e-02 -7.62e-03  1.62e-03
## 1586 -3.51e-03  2.58e-03  1.22e-03 -1.18e-03  7.53e-04  3.23e-05 -6.15e-04
## 1587  7.63e-04 -2.20e-04  2.61e-04 -2.17e-04  1.73e-04  2.40e-03  3.65e-03
## 1588  2.21e-03 -1.24e-03  3.35e-03  3.67e-03 -1.40e-02 -3.21e-03  9.96e-04
## 1589 -2.93e-02 -8.87e-02  4.57e-02 -3.34e-02  6.37e-03 -2.19e-02 -7.67e-03
## 1590  5.49e-03  2.00e-03 -5.40e-03 -9.85e-03 -4.06e-04 -3.24e-03 -1.25e-03
## 1591 -1.14e-03 -1.60e-03  1.25e-04 -3.56e-03  2.42e-03  2.96e-03 -9.48e-04
## 1592  6.37e-04 -3.88e-04 -5.01e-03  1.03e-03  1.26e-03 -4.47e-03 -1.08e-03
## 1593 -1.12e-03  7.26e-03  4.02e-03 -9.31e-03  1.03e-02  2.35e-03  6.63e-03
## 1594 -9.11e-03 -1.86e-03  9.54e-03  1.48e-02  5.44e-03 -2.77e-03  4.35e-03
## 1595 -2.47e-03 -1.58e-02  1.47e-02  5.04e-02 -3.75e-02 -2.07e-02 -1.26e-02
## 1596  2.36e-02 -1.36e-02 -2.63e-02 -3.23e-02 -1.26e-02  4.73e-03 -1.27e-02
## 1597 -1.70e-03  2.34e-03 -1.37e-03 -2.87e-03  5.34e-03  7.55e-03  1.92e-03
## 1598 -5.69e-04 -7.85e-04  3.15e-04 -1.32e-03  8.63e-04  7.62e-04 -5.59e-04
## 1599  1.29e-03 -1.01e-02 -4.79e-04 -7.42e-03  1.11e-02  1.08e-02 -3.90e-03
## 1600  3.13e-04 -1.45e-04 -2.87e-04  8.75e-05  2.52e-05 -3.20e-04 -1.26e-04
## 1601  3.22e-03  3.93e-04 -7.78e-03  1.07e-02 -1.25e-03 -1.28e-02 -4.65e-03
## 1602 -5.34e-03  4.01e-03 -9.26e-03 -9.50e-03  8.15e-04  1.84e-03 -4.62e-03
## 1603 -5.22e-03 -7.41e-03  1.80e-03 -1.42e-03  5.22e-03  5.68e-03 -1.37e-03
## 1604 -5.04e-03  1.62e-02 -6.54e-03 -4.85e-03  2.25e-02  1.50e-02 -2.81e-03
## 1605 -6.08e-03 -2.14e-03  3.41e-03 -1.22e-02  2.80e-03  1.87e-03  3.65e-03
## 1606  5.61e-03 -5.18e-03 -1.04e-03 -2.47e-03 -1.79e-03 -3.93e-04 -1.38e-04
## 1607 -4.70e-03 -2.09e-03 -8.67e-03 -7.48e-03  1.41e-02  4.58e-03 -4.25e-03
## 1608 -9.28e-03 -2.16e-03  3.67e-03 -1.49e-03  9.62e-03  7.28e-03 -2.57e-03
## 1609 -1.78e-04  8.36e-04 -7.39e-04 -1.36e-03 -1.33e-04  4.75e-04 -3.35e-04
## 1610  1.02e-03  1.34e-02 -2.38e-02 -2.73e-02  3.73e-02  2.69e-02 -1.39e-02
## 1611  8.69e-04  1.02e-03  3.28e-04  1.61e-04 -2.15e-03 -2.43e-03  5.14e-05
## 1612 -8.58e-03  2.96e-03  1.08e-02 -3.73e-03  4.45e-04  1.00e-02  3.88e-03
## 1613  3.73e-03 -2.93e-04 -4.73e-04  1.86e-03 -1.73e-03 -3.72e-03 -3.71e-04
## 1614  2.99e-04  2.47e-04  1.46e-04 -3.21e-04 -7.42e-04  5.87e-04 -1.19e-04
## 1615 -1.57e-03 -2.61e-03 -2.32e-03 -3.32e-03  3.62e-03  3.12e-03 -1.19e-03
## 1616  1.75e-03 -4.67e-03 -1.59e-02 -1.20e-02  1.64e-02  9.50e-03 -1.04e-02
## 1617  1.86e-03 -5.68e-04  5.37e-04  1.22e-03  7.14e-04  2.82e-03 -1.88e-03
## 1618 -7.93e-04  1.77e-03 -5.45e-03  3.78e-03  2.63e-03  1.27e-03 -4.33e-03
## 1619 -1.25e-04 -3.83e-05 -2.26e-04 -2.99e-04  1.78e-04 -5.43e-05 -6.21e-05
## 1620  9.46e-04 -4.91e-03 -4.80e-03 -9.39e-03  5.98e-03  1.27e-02  1.25e-03
## 1621 -3.44e-02 -6.11e-02  3.59e-03 -2.61e-02  2.74e-02 -4.73e-03 -2.33e-02
## 1622 -1.35e-02  9.69e-04  2.28e-02  1.82e-03 -7.11e-03  5.14e-03  5.12e-03
## 1623  8.70e-04 -2.51e-03  1.04e-02 -4.73e-03  4.93e-03  1.38e-02  4.51e-03
## 1624  2.75e-04  1.17e-03 -1.87e-04  6.20e-04 -1.10e-03  1.11e-04 -9.47e-05
## 1625 -1.17e-02 -1.12e-03 -5.62e-03 -1.15e-02  3.35e-02  2.79e-02  9.38e-04
## 1626  8.82e-04 -1.14e-03 -9.21e-04 -1.77e-03  2.36e-04 -3.30e-04 -6.08e-04
## 1627  1.70e-04 -7.36e-03 -2.85e-03 -4.43e-03  4.68e-03  5.98e-03 -1.23e-03
## 1628 -2.31e-03 -5.19e-03  6.22e-03 -9.47e-03  7.90e-03  9.26e-03 -9.53e-04
## 1629 -2.81e-02 -2.13e-03  2.52e-02  1.12e-02 -1.31e-02 -1.34e-03  4.04e-03
## 1630 -3.69e-03 -1.02e-02 -3.30e-03 -4.34e-03  5.13e-03  1.46e-03 -4.06e-03
## 1631 -3.75e-03 -1.04e-02  1.36e-03 -1.07e-02  1.84e-02  1.94e-02  2.29e-03
## 1632 -1.00e-02  1.93e-03  7.32e-03  2.80e-03  1.37e-02  1.40e-02  2.60e-03
## 1633 -6.01e-02  6.37e-03  3.03e-02  4.05e-02  9.68e-03 -1.08e-02 -7.53e-03
## 1634 -9.76e-03 -1.04e-03 -8.32e-03 -2.60e-02  8.03e-03  1.74e-02 -6.11e-03

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## 1635 -1.27e-02 -1.16e-02 4.10e-03 -1.92e-02 2.15e-02 2.94e-02 2.91e-03
## 1636 -1.01e-02 -1.60e-03 1.34e-02 9.49e-03 2.51e-03 4.22e-03 -1.79e-03
## 1637 2.63e-05 -1.02e-02 -9.55e-04 3.61e-03 1.10e-03 -4.27e-03 1.86e-03
## 1638 4.64e-03 2.83e-03 -1.15e-02 2.25e-04 2.55e-03 2.11e-03 -3.17e-03
## 1639 -7.40e-03 -6.93e-03 6.04e-03 -8.48e-03 3.70e-03 1.64e-02 1.71e-03
## 1640 -4.73e-03 2.65e-03 8.21e-04 -3.61e-03 2.87e-03 1.14e-03 -1.59e-03
## 1641 -1.13e-02 -1.93e-03 6.77e-03 -1.04e-02 1.03e-03 1.59e-02 4.66e-03
## 1642 -2.19e-03 -8.18e-04 -5.01e-04 -4.13e-04 3.04e-03 3.34e-04 -1.84e-03
## 1643 1.13e-03 -6.22e-02 4.60e-03 -1.59e-02 2.69e-02 1.39e-02 -7.35e-03
## 1644 -7.30e-03 -5.61e-03 -3.19e-03 -1.42e-02 -2.52e-03 9.18e-04 -3.07e-03
## 1645 -2.67e-03 -2.07e-03 1.71e-03 1.83e-03 2.07e-03 1.11e-03 -1.62e-03
## 1646 -2.73e-03 9.26e-04 2.28e-03 -5.11e-04 3.88e-04 1.05e-03 2.77e-04
## 1647 -1.21e-04 1.30e-05 -3.84e-04 -2.17e-04 1.05e-04 -1.10e-04 -1.30e-04
## 1648 -2.56e-02 -1.00e-02 2.35e-02 1.90e-03 2.03e-02 1.80e-02 5.66e-03
## 1649 -3.83e-03 -5.11e-03 -8.65e-03 -1.08e-02 4.11e-03 1.36e-03 -6.64e-03
## 1650 2.61e-04 -1.47e-03 -3.76e-03 -2.28e-03 2.89e-03 2.33e-03 -4.41e-05
## 1651 -6.67e-03 -8.35e-03 5.07e-03 7.63e-03 3.07e-03 6.35e-03 -6.06e-04
## 1652 1.04e-04 -3.16e-03 1.43e-03 -6.45e-04 1.07e-03 5.92e-04 -3.60e-04
## 1653 -2.19e-03 -3.86e-04 1.63e-03 5.67e-04 1.09e-03 4.54e-04 4.80e-04
## 1654 -4.55e-03 2.22e-04 -8.08e-04 -3.18e-03 3.79e-03 8.47e-04 -2.41e-03
## 1655 -1.43e-02 -2.75e-03 1.71e-02 -8.35e-03 3.29e-03 1.88e-02 -2.25e-03
## 1656 4.54e-02 5.48e-02 -4.33e-02 -6.33e-02 8.86e-04 2.49e-02 -1.91e-03
## 1657 -9.77e-03 -8.12e-04 -3.61e-03 6.94e-03 -1.15e-04 -9.33e-04 -2.87e-03
## 1658 -2.65e-02 -5.88e-03 -3.06e-03 -1.51e-02 1.04e-02 7.63e-03 -1.08e-02
## 1659 -1.91e-02 -7.02e-03 1.13e-02 -9.69e-03 1.18e-02 1.22e-02 1.73e-03
## 1660 -1.26e-02 -1.26e-03 2.80e-03 -1.68e-02 6.04e-03 1.17e-03 -7.61e-03
## 1661 -1.30e-02 -4.53e-03 4.27e-03 -1.10e-02 2.46e-02 2.94e-02 5.91e-03
## 1662 5.56e-04 -3.97e-03 -2.67e-03 -5.80e-03 1.31e-02 7.83e-03 -2.77e-03
## 1663 -5.42e-03 2.31e-03 -1.22e-03 -4.24e-03 5.06e-03 4.67e-03 -1.33e-03
## 1664 -2.10e-04 -9.53e-05 3.11e-05 -1.11e-04 -4.45e-05 -1.55e-04 -1.69e-04
## 1665 -3.66e-04 -1.55e-03 -1.04e-03 -2.06e-03 1.37e-03 1.82e-03 -2.33e-04
## 1666 -1.93e-02 -7.50e-03 1.03e-02 -6.10e-03 1.76e-02 9.55e-03 1.12e-03
## 1667 -1.17e-02 -2.06e-02 -9.76e-04 -7.60e-03 1.19e-02 1.16e-02 -1.41e-02
## 1668 3.93e-03 -1.39e-03 -5.96e-03 7.46e-04 6.26e-04 -3.18e-03 -1.10e-03
## 1669 -7.06e-04 -5.59e-04 7.27e-04 -4.00e-04 3.74e-04 5.16e-04 -2.36e-04
## 1670 -1.79e-03 -3.85e-03 -1.13e-03 -3.74e-03 1.93e-03 7.20e-04 -8.72e-04
## 1671 -1.13e-04 -3.43e-04 -1.41e-04 -6.24e-05 4.43e-04 2.39e-04 -2.30e-04
## 1672 4.52e-03 -5.74e-03 -6.84e-03 -1.09e-03 4.72e-03 9.39e-04 3.37e-04
## 1673 1.11e-03 -5.07e-04 -2.63e-04 2.13e-04 9.02e-04 -2.32e-03 -2.45e-04
## 1674 6.46e-05 1.65e-03 3.34e-03 6.27e-03 -2.47e-03 -5.90e-03 8.35e-04
## 1675 5.21e-04 -7.32e-05 2.41e-04 6.35e-04 1.78e-04 3.65e-04 -2.99e-04
## 1676 -3.02e-04 -2.73e-03 -3.36e-03 -2.52e-03 3.22e-03 1.75e-03 -1.44e-03
## 1677 1.95e-02 1.89e-03 -1.96e-02 1.93e-03 -1.19e-02 -1.16e-02 -3.72e-03
## 1678 -1.76e-03 -6.87e-04 -1.98e-03 -2.17e-03 2.26e-03 -1.69e-03 2.19e-03
## 1679 -1.43e-03 8.15e-04 1.10e-03 5.37e-04 -2.79e-04 1.53e-03 2.23e-04
## 1680 1.02e-03 -1.47e-03 8.17e-04 -2.38e-03 -1.89e-03 5.55e-04 -1.36e-04
## 1681 -8.05e-03 -1.56e-02 -7.54e-04 -9.86e-03 4.69e-03 1.15e-02 -2.35e-03
## 1682 5.52e-03 -2.57e-02 -1.46e-03 -1.77e-02 1.32e-02 1.10e-02 -9.65e-03
## 1683 2.41e-03 -1.63e-03 -1.57e-02 -8.42e-03 7.64e-03 1.06e-02 -6.18e-03
## 1684 3.71e-02 8.13e-03 -2.60e-03 2.35e-04 -4.76e-02 -6.23e-02 -4.91e-03
## 1685 1.08e-02 -2.29e-03 -1.37e-02 -1.68e-02 2.13e-02 2.09e-02 6.49e-03
## 1686 -2.65e-02 -1.50e-02 -1.53e-02 -7.47e-03 2.06e-02 2.11e-02 -5.98e-03
## 1687 -3.75e-02 -2.42e-02 3.37e-03 3.32e-02 -3.49e-02 -4.12e-02 -4.88e-02
## 1688 1.02e-02 -2.88e-03 -3.72e-03 -1.47e-02 -1.56e-02 2.18e-03 -6.42e-04

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## 1689 3.80e-04 -5.00e-04 -1.00e-03 4.84e-05 1.80e-03 5.90e-04 3.86e-04
## 1690 1.79e-02 2.58e-03 -3.05e-03 -1.83e-03 -3.66e-03 -4.75e-03 -7.94e-03
## 1691 1.30e-02 3.16e-03 1.02e-02 -4.10e-03 -1.11e-02 -1.97e-02 -6.93e-03
## 1692 1.90e-02 1.35e-03 -1.91e-03 -6.16e-02 -2.27e-02 -1.07e-02 -2.08e-03
## 1693 -3.10e-03 5.95e-05 8.70e-04 1.33e-03 3.71e-03 2.30e-03 -3.09e-04
## 1694 4.15e-03 2.72e-03 -4.49e-04 3.21e-03 -3.64e-03 -4.67e-03 -2.80e-02
## 1695 2.55e-02 2.08e-02 -3.00e-02 -7.37e-02 2.08e-03 8.40e-03 -4.89e-03
## 1696 4.90e-03 -1.89e-03 -8.87e-04 2.31e-03 -7.52e-03 -1.82e-03 1.99e-03
## 1697 2.85e-03 -1.50e-03 -7.10e-05 -1.42e-03 -1.67e-04 1.56e-03 1.74e-03
## 1698 1.30e-03 1.11e-03 -2.13e-03 -2.90e-05 1.17e-04 7.46e-04 6.83e-04
## 1699 6.86e-03 2.33e-03 1.36e-03 -2.23e-03 -7.12e-03 -5.96e-03 1.16e-03
## 1700 -4.63e-04 1.67e-04 -1.63e-03 6.70e-04 7.15e-04 2.64e-04 -1.16e-03
## 1701 2.21e-02 -1.49e-02 4.43e-03 -4.17e-03 -7.42e-03 -1.64e-02 -3.53e-03
## 1702 9.54e-03 -2.74e-03 1.97e-03 1.76e-03 -1.03e-02 -1.01e-03 4.69e-03
## 1703 9.61e-04 -3.39e-04 -4.02e-04 2.65e-04 3.47e-04 -1.84e-03 1.38e-04
## 1704 3.74e-04 -8.24e-04 3.28e-04 -9.10e-06 5.10e-04 -7.12e-04 -2.45e-04
## 1705 3.94e-04 -6.97e-04 8.37e-04 -3.07e-04 -7.18e-04 3.49e-04 -6.33e-04
## 1706 1.73e-03 -5.49e-03 4.12e-03 -6.65e-04 -1.93e-03 2.83e-04 2.20e-03
## 1707 5.86e-03 -2.81e-03 5.33e-06 -6.12e-03 -7.97e-03 -8.08e-03 4.30e-03
## 1708 2.40e-02 -6.67e-02 -2.03e-03 -4.49e-02 4.27e-02 -2.41e-02 -2.29e-03
## 1709 -3.90e-03 3.66e-03 -2.26e-03 3.34e-03 5.79e-03 2.91e-03 -1.61e-03
## 1710 7.51e-03 1.48e-02 -2.86e-02 3.58e-02 1.67e-02 -2.46e-02 -2.95e-02
## 1711 9.92e-04 -3.77e-03 4.58e-03 5.25e-04 -2.01e-03 3.31e-03 -4.11e-03
## 1712 -1.16e-04 -2.34e-03 4.97e-04 5.22e-04 -2.13e-03 -3.31e-03 9.65e-04
## 1713 6.28e-03 -5.31e-04 -3.21e-03 3.23e-04 -7.65e-04 -2.85e-03 -9.70e-04
## 1714 -2.77e-03 6.51e-03 9.46e-03 -4.33e-03 -5.49e-03 7.53e-03 -1.63e-03
## 1715 3.15e-03 -5.82e-03 -2.55e-03 1.05e-05 2.16e-03 -3.02e-03 1.10e-03
## 1716 7.95e-04 3.43e-03 -1.17e-03 1.60e-04 4.55e-04 3.72e-03 -4.85e-06
## 1717 -1.38e-03 2.70e-04 4.37e-03 -3.26e-05 -1.18e-03 7.43e-05 -1.64e-03
## 1718 -5.81e-04 1.07e-03 2.95e-03 1.28e-03 5.36e-04 9.11e-04 -1.46e-03
## 1719 5.22e-04 4.65e-03 -4.77e-03 -1.14e-03 1.95e-03 -2.72e-03 3.34e-03
## 1720 -9.04e-04 1.55e-03 -1.18e-03 5.54e-04 -5.24e-04 9.46e-04 -1.61e-04
## 1721 9.67e-06 -9.35e-07 -2.90e-06 2.38e-05 -1.05e-05 -2.81e-05 4.06e-06
## 1722 -6.22e-04 1.66e-04 5.03e-04 3.27e-05 -4.59e-05 4.37e-04 7.28e-05
## 1723 -1.92e-02 -8.13e-04 1.66e-02 -7.52e-03 -1.70e-02 -9.31e-03 1.29e-03
## 1724 1.69e-03 -4.87e-03 1.26e-02 1.25e-02 -4.25e-03 -7.13e-03 -2.37e-03
## 1725 4.81e-03 5.35e-04 -2.92e-04 1.31e-03 -1.99e-03 -1.66e-03 2.37e-04
## 1726 -2.39e-03 1.95e-03 1.72e-03 -1.68e-04 -1.31e-03 1.02e-03 -5.46e-04
## 1727 1.67e-03 1.38e-03 -6.54e-04 5.76e-04 -9.07e-04 -3.07e-04 1.82e-04
## 1728 -3.61e-03 8.69e-03 -6.08e-03 2.95e-03 -5.55e-03 -8.84e-03 2.78e-03
## 1729 2.92e-04 -4.02e-03 2.36e-03 9.66e-04 4.97e-04 -3.83e-03 -1.03e-04
## 1730 -1.14e-03 3.55e-03 2.28e-03 1.60e-03 4.23e-04 -1.93e-03 -5.24e-04
## 1731 3.83e-05 1.26e-04 3.81e-05 1.61e-04 -5.38e-06 5.63e-04 1.29e-04
## 1732 -3.12e-03 -1.79e-03 8.29e-03 7.47e-03 -1.40e-03 -3.64e-04 -6.25e-04
## 1733 -2.41e-04 1.59e-03 -1.29e-03 8.22e-04 5.39e-04 1.14e-03 -1.10e-03
## 1734 1.46e-04 7.99e-04 -1.43e-03 -6.81e-05 5.70e-04 3.25e-04 -6.90e-04
## 1735 1.44e-03 -2.43e-03 2.58e-03 -2.97e-04 -2.66e-03 -7.52e-04 -2.21e-04
## 1736 1.02e-03 -1.70e-03 2.95e-04 -7.87e-04 -6.05e-04 -2.50e-03 7.04e-04
## 1737 8.50e-03 -1.20e-02 -3.24e-03 3.04e-03 -1.44e-03 -6.79e-03 2.42e-03
## 1738 4.60e-03 4.63e-03 1.81e-03 3.67e-03 -9.60e-03 -1.66e-02 1.85e-03
## 1739 5.14e-04 -6.20e-04 -5.24e-05 -1.36e-04 1.22e-04 -2.64e-04 9.94e-05
## 1740 1.38e-03 -1.61e-02 7.13e-05 4.93e-03 1.14e-02 -2.28e-02 -1.04e-02
## 1741 -2.86e-03 4.22e-04 -3.29e-03 3.46e-03 1.13e-02 -3.98e-03 -9.80e-04
## 1742 9.80e-04 -1.82e-03 2.61e-03 -5.36e-04 -1.23e-03 1.58e-03 -5.23e-03

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## 1743  1.27e-02 -6.22e-03  1.86e-02  1.79e-02 -5.75e-03 -2.76e-02 -2.19e-02
## 1744  1.14e-03 -6.77e-03  3.83e-03 -1.56e-03 -2.71e-03  1.27e-03 -1.15e-04
## 1745  5.15e-03  3.05e-04 -5.09e-04  3.13e-03  8.30e-05 -9.06e-03 -4.35e-04
## 1746  1.25e-03  3.56e-03 -1.05e-02 -5.65e-03  3.15e-03  2.96e-03 -1.72e-03
## 1747 -1.02e-03  5.87e-03  1.95e-03 -6.77e-04  3.17e-03 -2.92e-04  9.10e-03
## 1748  8.45e-03 -8.04e-04  9.95e-03 -1.43e-02 -2.85e-02  5.46e-03  2.49e-03
## 1749 -3.10e-03  3.01e-04 -5.92e-04  3.67e-03  6.61e-04  5.83e-03  9.51e-04
## 1750  8.02e-05 -6.60e-05  2.37e-04  6.58e-05 -2.63e-04 -2.92e-04  5.03e-05
## 1751 -8.35e-03 -1.19e-02  1.36e-03  5.16e-03  6.85e-03 -1.94e-03  2.19e-03
## 1752  1.59e-02  6.55e-04 -5.43e-03 -5.33e-03 -3.24e-03  1.82e-04  2.09e-03
## 1753  2.22e-02 -2.01e-02 -8.25e-04 -2.15e-02 -5.69e-03 -4.09e-03 -4.71e-03
## 1754  1.82e-03  3.71e-03  3.51e-03 -4.76e-03 -5.44e-03 -4.03e-03  7.22e-04
## 1755  6.49e-03 -6.05e-03 -5.68e-03 -4.01e-03 -5.48e-04 -5.28e-03 -7.51e-04
## 1756 -7.91e-03  2.29e-03 -1.42e-04 -2.52e-03 -3.37e-04  5.25e-03  7.27e-03
## 1757 -7.56e-03  2.41e-03  2.82e-03  1.22e-03  1.68e-03  4.64e-03  1.44e-03
## 1758  7.31e-03 -5.54e-03 -1.31e-03 -3.83e-03  8.90e-04 -4.61e-03 -1.29e-03
## 1759 -1.69e-03  2.90e-03 -5.92e-03  3.05e-03  3.27e-03  8.97e-04 -3.58e-03
## 1760 -3.43e-03 -1.68e-03  6.89e-04  1.33e-03  1.53e-03  4.55e-04  7.71e-06
## 1761 -6.08e-04  8.05e-04 -1.87e-03  2.62e-03  2.44e-04 -2.12e-04 -1.41e-03
## 1762 -1.44e-04  1.60e-03 -1.37e-03 -1.85e-04  8.81e-04  8.95e-04 -4.33e-04
## 1763  2.28e-03 -3.46e-03  7.53e-03  4.09e-03 -4.62e-03 -4.95e-04  1.81e-03
## 1764 -7.65e-03 -3.81e-03  2.08e-02 -8.79e-03 -1.65e-02  5.32e-04  8.16e-03
## 1765  3.73e-03  2.77e-03 -1.31e-02  2.73e-04  9.23e-03  6.68e-03  2.75e-04
## 1766 -3.06e-03 -6.44e-05  5.60e-03 -1.18e-03 -2.13e-03 -1.36e-03  1.27e-03
## 1767 -3.65e-05 -4.40e-04  2.07e-04  3.00e-05 -5.91e-04 -1.19e-03 -5.59e-04
## 1768  3.42e-03 -3.92e-03  2.60e-03 -4.13e-03 -3.02e-03  2.70e-04  1.63e-03
## 1769 -2.88e-04 -5.87e-04  6.87e-04  6.36e-04  3.93e-04 -9.60e-04 -6.21e-04
## 1770  9.71e-05 -5.15e-04 -1.14e-04  7.26e-05  2.80e-04 -3.49e-04 -2.68e-04
## 1771  6.70e-03  1.67e-02 -9.24e-03 -5.37e-03 -2.07e-02  1.68e-02  1.08e-02
## 1772 -9.83e-04 -3.37e-03  9.88e-04 -1.31e-03 -2.85e-03  2.75e-03  1.74e-03
## 1773 -6.73e-03  5.10e-04 -4.72e-05 -5.94e-03  5.58e-03  1.35e-02  5.31e-03
## 1774  5.70e-03 -2.91e-02 -1.22e-02  1.27e-03  2.19e-02 -2.11e-02 -1.23e-02
## 1775 -5.10e-03 -2.27e-03  1.30e-02 -6.11e-03  1.85e-04  2.39e-02  1.04e-02
## 1776 -1.04e-03 -2.77e-04  1.51e-03  1.16e-03 -1.11e-03  1.12e-03  3.07e-04
## 1777 -4.84e-03 -1.84e-02 -7.91e-03 -5.78e-02  2.14e-02  8.15e-02  3.06e-02
## 1778 -3.75e-03 -2.06e-05  1.88e-03  5.05e-04  6.79e-04  1.49e-03  1.69e-03
## 1779  2.43e-03 -6.22e-03 -6.02e-03 -1.68e-03 -1.94e-03  1.01e-03  1.85e-03
## 1780 -2.19e-03  3.07e-03 -5.97e-04  5.00e-03  1.20e-02 -1.02e-02 -7.69e-03
## 1781  1.62e-05 -4.20e-03  6.86e-04 -2.14e-04 -4.54e-03 -6.23e-03 -7.70e-04
## 1782  2.44e-04 -4.69e-03  1.70e-02 -3.67e-03 -2.30e-02  2.48e-02  1.07e-02
## 1783  2.09e-03 -9.04e-04 -1.50e-03  5.55e-03  4.28e-03 -1.02e-02 -5.18e-03
## 1784 -5.18e-03 -4.11e-03  5.50e-03  5.15e-03  1.54e-02 -1.02e-02 -4.78e-03
## 1785  1.58e-05 -5.32e-05 -7.96e-06 -5.27e-05 -2.14e-06 -8.17e-05 -3.30e-05
## 1786 -3.69e-03 -3.84e-03  6.98e-03  5.51e-03 -1.23e-03  9.09e-03  3.60e-03
## 1787  3.42e-03  1.39e-02 -1.03e-03 -5.87e-03  5.17e-04  2.45e-02  1.08e-02
## 1788 -1.77e-03  2.29e-04  1.72e-03  7.67e-03  8.55e-04 -1.45e-02 -4.04e-03
## 1789  3.60e-03 -6.20e-03 -2.78e-03  4.09e-04  1.08e-02 -2.03e-02 -9.71e-03
## 1790 -1.08e-04 -1.20e-03 -4.28e-05 -2.35e-03 -4.71e-04  2.16e-03  6.02e-04
## 1791 -3.01e-04 -1.00e-04  2.03e-04  1.09e-04  6.12e-07  1.77e-04  2.48e-05
## 1792  1.77e-02 -8.13e-03 -5.50e-03  1.14e-02 -7.61e-04 -1.22e-02 -1.19e-02
## 1793 -5.36e-03  1.16e-03  2.59e-03 -2.30e-03  6.08e-03 -1.73e-03  2.10e-04
## 1794 -6.72e-03 -2.85e-03  5.17e-03  3.75e-03  5.34e-03 -9.40e-04  4.71e-03
## 1795  1.26e-03 -4.43e-05  6.98e-04 -1.59e-03 -1.02e-03  2.28e-03  4.26e-03
## 1796  7.39e-02 -6.49e-03 -3.00e-02  1.44e-03 -3.17e-02  3.59e-02  1.83e-02

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## 1797 -7.21e-02  1.92e-02 -6.93e-02  9.11e-02  3.92e-02 -1.20e-01 -4.76e-02
## 1798  2.32e-03 -6.41e-03 -8.33e-03 -1.70e-03  4.87e-03  3.07e-03  1.93e-03
## 1799  4.78e-03 -6.30e-03 -2.52e-03 -1.06e-03 -2.63e-03 -8.39e-04 -1.27e-03
## 1800  9.72e-03 -1.01e-02 -1.18e-03  5.00e-03  2.25e-03 -2.17e-03 -1.65e-03
## 1801 -9.74e-03 -9.67e-04  6.00e-05  3.05e-03  6.10e-03 -1.48e-03 -9.84e-04
## 1802  3.02e-03  4.61e-03 -8.86e-03 -7.81e-03  5.24e-03 -5.07e-03 -9.04e-04
## 1803 -9.26e-03 -6.60e-03 -4.49e-03  2.85e-03  1.09e-02  2.21e-03  5.17e-04
## 1804 -7.54e-03 -4.38e-04  1.14e-02 -9.30e-03 -8.82e-03  5.69e-04  3.65e-03
## 1805 -4.11e-04  1.50e-04  2.51e-04 -7.26e-04 -1.57e-04  3.53e-05  9.84e-05
## 1806 -6.51e-05 -2.95e-05  2.09e-05  2.39e-05  8.65e-06 -2.92e-05 -1.64e-06
## 1807 -1.11e-02 -1.06e-02 -4.28e-03 -2.50e-02  2.01e-02  3.75e-03  4.13e-03
## 1808  2.89e-04  1.00e-05  1.77e-03  2.19e-03 -7.48e-04  4.22e-04  1.49e-03
## 1809  9.84e-03  2.44e-03  1.31e-02 -4.10e-03 -2.25e-02 -2.10e-03 -3.88e-03
## 1810 -9.88e-04 -5.16e-03  1.08e-02  1.52e-02 -1.98e-02 -1.82e-02 -7.31e-03
## 1811  3.95e-04 -9.75e-05 -5.21e-04  9.20e-05 -7.39e-05 -3.61e-04 -2.03e-04
## 1812  1.87e-02  1.06e-02  5.89e-03  1.27e-02 -2.23e-02  7.67e-03  9.30e-03
## 1813  2.52e-02  1.45e-02 -3.67e-02  1.05e-03  2.04e-02  1.04e-04 -8.02e-03
## 1814 -1.33e-03  9.84e-04  1.69e-04  1.86e-03 -7.88e-05 -1.41e-03 -2.50e-04
## 1815 -6.98e-03 -2.78e-03  7.78e-04 -1.60e-02  6.60e-03 -6.72e-03 -2.56e-03
## 1816  8.47e-02 -2.69e-02 -3.15e-02  2.85e-02 -1.22e-02 -1.24e-02 -1.80e-02
## 1817 -1.83e-02  9.23e-03 -3.39e-02  1.15e-02 -2.30e-03 -3.01e-02 -7.17e-02
## 1818 -1.18e-01  4.14e-02  5.46e-02  7.81e-02 -8.07e-02 -9.62e-02 -1.14e-01
## 1819  1.69e-03 -5.81e-03  3.28e-03 -1.87e-03  1.22e-03  4.01e-03  9.31e-04
## 1820 -5.64e-02 -5.05e-02  5.74e-02  6.72e-02  1.45e-02 -3.73e-02 -2.79e-03
## 1821 -2.57e-03 -9.43e-03  2.14e-03  2.66e-02 -3.63e-03 -1.30e-02  2.81e-03
## 1822  1.40e-02 -1.61e-03  4.15e-03 -1.76e-02 -1.09e-02  8.27e-03 -4.58e-03
## 1823 -3.01e-03 -8.38e-03  3.85e-03  3.90e-03  1.71e-02 -8.19e-04  1.60e-03
## 1824  5.53e-04 -2.10e-04 -2.69e-04 -4.83e-04  2.98e-04  3.10e-04  4.43e-04
## 1825 -2.06e-03  1.15e-02 -1.42e-03 -1.93e-03 -9.19e-03 -3.70e-03  8.74e-04
## 1826 -5.73e-02  4.94e-02  1.42e-02  3.48e-02 -1.04e-02 -7.70e-02 -1.07e-02
## 1827  5.07e-02 -3.14e-02  3.27e-02  1.51e-02 -5.53e-02  1.21e-02 -5.67e-03
## 1828  1.88e-03 -1.82e-03  2.97e-04 -5.91e-04  6.43e-04  2.87e-03  1.34e-04
## 1829  3.61e-02  4.54e-03  1.97e-03  7.98e-03 -2.92e-02  1.85e-02  2.56e-03
## 1830  5.04e-02  7.99e-03 -3.70e-02 -3.46e-02 -8.74e-03  1.82e-02 -6.69e-03
## 1831 -7.14e-04  7.30e-02 -4.64e-02 -4.71e-02  3.70e-02 -1.51e-02 -2.28e-02
## 1832  9.51e-03  5.08e-03 -9.58e-03 -7.29e-03  1.77e-03 -9.91e-03 -8.09e-03
## 1833 -2.88e-02  6.23e-03 -1.06e-02  2.01e-02  4.25e-03 -2.20e-02  3.25e-03
## 1834 -2.65e-02  7.41e-03 -1.30e-02  1.76e-02  2.19e-02 -1.54e-02  4.19e-03
## 1835 -1.36e-02  2.23e-02 -1.98e-02 -7.09e-03  2.55e-02  1.09e-02  2.24e-03
## 1836  4.01e-03 -1.95e-03  3.68e-04 -8.69e-04 -2.23e-03  7.59e-04 -1.45e-05
## 1837  6.05e-04 -3.78e-04 -2.91e-04  6.00e-04 -1.11e-03 -5.20e-04 -1.58e-04
## 1838 -9.06e-03 -3.52e-04  5.45e-03 -4.24e-03  2.82e-04 -3.22e-03  9.74e-04
## 1839  1.45e-03 -2.64e-03  5.10e-03  2.74e-04 -1.19e-03  1.93e-03  1.67e-04
## 1840  5.46e-04 -1.19e-04 -8.97e-04 -9.09e-04  1.01e-03  2.30e-03 -6.91e-03
## 1841 -9.94e-03  4.03e-03  1.98e-03 -6.92e-03  5.13e-03 -2.10e-03  2.67e-03
## 1842  1.28e-02 -1.15e-03 -1.08e-03  3.85e-03 -1.14e-02 -6.70e-03 -2.72e-03
## 1843 -1.23e-04  2.24e-03 -1.96e-03  5.56e-03  7.89e-03 -3.59e-03  2.57e-03
## 1844  1.89e-02 -3.43e-03 -8.53e-03 -1.56e-02 -5.58e-03  3.69e-03  1.33e-03
## 1845  1.86e-02  1.80e-03 -1.20e-02 -5.77e-03  1.06e-03 -2.99e-03  8.15e-03
## 1846 -1.42e-02 -4.05e-02  6.03e-02  5.77e-03 -4.77e-02 -5.22e-03  6.02e-03
## 1847 -4.15e-03  9.66e-04  3.70e-03 -1.06e-02 -1.28e-03  1.24e-03  1.16e-03
## 1848  4.84e-02 -9.11e-03 -1.39e-02 -3.68e-02 -1.32e-02  1.99e-02  2.45e-02
## 1849 -2.51e-02  1.99e-02  2.30e-03  5.46e-02 -2.73e-02 -3.02e-02 -6.79e-02
## 1850 -1.15e-02 -1.38e-02  7.33e-03  2.32e-03  5.79e-03 -1.04e-03  3.09e-03

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## 1851  2.70e-03  1.12e-03 -1.79e-03 -3.76e-04  2.73e-04  8.97e-04 -1.20e-04
## 1852  2.02e-02  1.10e-03 -4.77e-03 -8.20e-03 -1.19e-02 -8.74e-04 -1.45e-03
## 1853  2.55e-02 -4.35e-02  6.86e-04  6.31e-04 -2.81e-02 -1.29e-02 -1.34e-02
## 1854  1.49e-03  7.46e-04 -4.16e-03 -2.62e-03 -2.45e-04 -3.39e-03 -2.88e-03
## 1855 -8.34e-04  1.86e-03 -6.10e-03  5.37e-03  2.32e-03 -2.72e-03 -1.81e-04
## 1856  3.40e-02  8.61e-03 -2.88e-02  1.69e-02  1.18e-02  2.16e-02  6.86e-03
## 1857 -6.60e-05 -1.66e-05  5.27e-05  7.86e-05 -6.56e-05  2.74e-05  6.32e-05
## 1858 -1.10e-02 -2.49e-02 -2.06e-03  4.07e-02  6.32e-02  9.49e-04  1.27e-03
## 1859 -2.31e-02  1.06e-02 -2.99e-03 -5.13e-03  2.62e-02 -1.12e-02  4.15e-03
## 1860  9.99e-03  7.05e-03 -7.30e-03 -6.63e-03 -4.91e-03  3.69e-04 -4.61e-04
## 1861 -8.26e-03 -2.64e-03  3.21e-03  2.12e-03  2.98e-03 -1.18e-04 -7.64e-03
## 1862  3.31e-03  7.24e-04  4.41e-04  1.47e-04 -9.55e-04 -5.94e-03 -3.09e-03
## 1863  3.56e-04  2.25e-02 -4.80e-03  2.39e-03  9.71e-03  1.71e-02  7.20e-03
## 1864  1.39e-03  1.77e-03 -4.81e-03 -7.94e-05  2.31e-03 -1.64e-03 -1.16e-03
## 1865 -3.84e-03  2.86e-03 -8.41e-04  4.04e-03  1.24e-04 -2.42e-03  2.89e-03
## 1866  8.31e-02  3.29e-02 -5.32e-02 -6.41e-03 -2.02e-02 -3.21e-02 -3.60e-02
## 1867  8.24e-05  6.70e-04  7.52e-04  4.30e-04 -4.37e-04  1.46e-04  3.99e-04
## 1868 -1.04e-01  2.77e-02 -5.50e-02  9.49e-02  3.14e-02 -1.04e-01 -4.69e-02
## 1869  1.67e-04  2.86e-04  8.97e-04  6.74e-04 -1.12e-04  3.42e-04  2.69e-04
## 1870  4.39e-03 -3.48e-04 -2.08e-03 -1.61e-03  4.17e-05  3.74e-04 -1.91e-03
## 1871 -7.33e-04 -6.56e-04  5.28e-04 -1.52e-03  8.44e-04  2.82e-04  4.74e-05
## 1872  2.75e-03  9.53e-04  8.49e-03  2.53e-03 -5.14e-03 -9.62e-04  9.33e-05
## 1873  1.85e-05 -1.79e-04  9.50e-05  1.49e-04 -2.99e-04 -1.39e-04 -4.05e-05
## 1874  6.56e-03  1.56e-03 -1.49e-03 -2.00e-03 -3.92e-03  3.22e-03 -1.64e-03
## 1875 -4.86e-02  9.31e-02 -1.81e-02 -3.62e-03  3.87e-02 -2.85e-02 -1.78e-02
## 1876 -5.13e-03  1.35e-02  5.79e-03  4.00e-03  1.19e-02  2.09e-03 -3.49e-03
## 1877 -1.76e-02  2.32e-03  1.25e-02  1.16e-02  5.78e-03 -8.93e-03  2.74e-03
## 1878 -1.66e-02 -1.40e-02  1.97e-02 -1.41e-02  6.54e-03  1.44e-02  1.13e-02
## 1879 -4.14e-03 -3.99e-04  4.62e-04  1.19e-02  5.31e-03 -2.34e-04 -8.20e-04
## 1880 -2.94e-03 -8.42e-03  4.91e-03 -8.73e-03 -1.14e-02 -5.82e-03 -3.77e-03
## 1881  1.19e-03  4.39e-04 -1.25e-03  9.94e-05  1.89e-03 -1.41e-04 -3.54e-04
## 1882  6.23e-03 -2.80e-02 -1.34e-02  2.26e-02  1.53e-03  5.53e-03  1.12e-02
## 1883  6.64e-03  7.52e-04 -1.20e-03 -2.48e-04 -2.85e-03 -2.57e-03  2.22e-03
## 1884  3.00e-02 -1.42e-02 -1.37e-02 -3.09e-02  6.17e-02  3.96e-02 -1.42e-03
## 1885 -6.30e-03  5.76e-03 -5.08e-05  8.55e-03  2.34e-03 -7.55e-03 -1.44e-03
## 1886  9.65e-03  4.05e-03 -7.01e-03 -7.81e-03  2.32e-03  1.98e-03 -1.66e-04
## 1887  2.76e-04 -4.61e-05 -5.56e-04  3.30e-05  6.01e-04  2.12e-04  1.17e-05
## 1888 -2.97e-02  8.30e-03  2.54e-02  3.66e-03 -2.46e-02 -5.67e-03 -1.82e-02
## 1889 -4.93e-03  1.36e-02  1.10e-02 -3.22e-03  6.35e-04  1.02e-02  7.67e-03
## 1890 -5.99e-03  2.63e-03  1.94e-03 -7.73e-03 -2.59e-04 -6.27e-03 -2.62e-03
## 1891  1.78e-02 -7.26e-03  2.95e-03  5.23e-02 -3.26e-03  5.34e-03  1.82e-03
## 1892  2.47e-02 -3.42e-02 -6.31e-03 -2.59e-03  3.05e-02  2.26e-02  5.95e-03
## 1893 -2.37e-02 -1.86e-03  4.30e-03  2.09e-02 -1.45e-02 -2.61e-02  1.01e-03
## 1894  4.01e-06 -2.26e-05  1.24e-05 -1.36e-06 -7.85e-06  9.56e-06 -9.66e-07
## 1895  3.29e-03  2.48e-03  2.17e-04  4.49e-04 -1.53e-03 -9.03e-04 -3.61e-04
## 1896  7.84e-03 -1.02e-02  1.55e-02 -1.37e-02 -1.27e-02  7.67e-03 -9.16e-04
## 1897  6.46e-03 -9.91e-03 -1.70e-02 -6.68e-03  2.16e-02 -5.96e-04  6.78e-03
## 1898  1.88e-03  2.08e-02 -3.09e-02  5.25e-04  1.10e-02 -1.68e-02  6.73e-03
## 1899  3.18e-03 -1.53e-03 -2.58e-03 -7.65e-03  4.93e-03  6.02e-03  4.13e-03
## 1900 -3.02e-03  9.61e-03  4.05e-03  1.18e-03  2.62e-03  6.23e-03  6.02e-03
## 1901  4.10e-02 -1.35e-02 -3.89e-02  2.18e-02  6.96e-03  5.07e-03 -5.27e-03
## 1902  2.28e-02 -8.13e-03 -2.05e-02 -1.62e-02  3.77e-02  6.25e-03 -7.54e-03
## 1903  1.43e-02  2.08e-03 -3.40e-03 -7.56e-03 -5.32e-03  1.07e-03  2.12e-03
## 1904 -5.68e-02  4.73e-02  4.35e-02  5.26e-02 -1.54e-03 -7.60e-03  2.20e-02

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## 1905 -4.21e-03  6.31e-03  8.09e-04  1.15e-03  3.41e-03 -1.37e-03 -1.20e-03
## 1906 -1.54e-04 -1.77e-03  1.81e-03  1.29e-02 -2.22e-03 -2.23e-03  1.10e-03
## 1907  1.98e-03 -6.74e-05 -5.16e-04 -1.25e-03 -5.38e-04  9.07e-04 -5.32e-04
## 1908  6.92e-03 -1.09e-02 -4.14e-03 -2.36e-03  7.22e-03  5.26e-03 -2.89e-03
## 1909 -1.71e-03 -7.69e-05  5.10e-03 -2.92e-04 -7.74e-03  3.06e-04  6.40e-04
## 1910  1.03e-02 -6.16e-04  4.27e-03 -8.21e-03 -8.47e-03  7.68e-04 -2.78e-03
## 1911 -8.18e-03  8.46e-03 -9.78e-03  2.77e-02  2.31e-02  1.30e-03  5.85e-04
## 1912  2.41e-02  6.88e-03 -7.11e-03  3.89e-02 -1.88e-02 -1.49e-02  1.27e-02
## 1913  1.56e-02 -6.60e-03 -1.11e-02 -1.16e-02 -5.98e-03  4.49e-03 -5.47e-03
## 1914  6.09e-02 -5.99e-02 -3.10e-02  4.39e-02 -4.32e-03  2.56e-02  4.75e-02
## 1915 -9.02e-03 -7.90e-05 -1.28e-02  8.14e-03  2.02e-02 -6.96e-03 -1.44e-02
## 1916 -9.20e-02  1.47e-02  4.42e-02  7.37e-02 -3.86e-02 -6.83e-02 -1.29e-02
## 1917  1.00e-03 -5.37e-03 -2.10e-04 -2.85e-03  7.78e-04  2.95e-04 -1.43e-03
## 1918  9.03e-03 -1.12e-02 -5.57e-03 -1.09e-04 -1.92e-03  3.92e-03  3.13e-03
## 1919 -1.16e-02  1.90e-03  9.09e-03  7.94e-03  3.55e-03 -1.70e-03  1.92e-03
## 1920 -6.44e-03 -8.86e-03 -2.58e-03 -1.14e-02  9.61e-03  1.18e-02 -6.46e-04
## 1921  1.72e-03  1.74e-02 -2.65e-02 -2.37e-02  2.38e-02  4.69e-03 -6.49e-04
## 1922 -6.48e-03  8.83e-03  2.78e-02 -3.53e-02 -3.44e-02 -2.27e-03  1.47e-03
## 1923  6.35e-02  1.53e-02 -3.67e-02  1.11e-02 -7.84e-03  2.30e-02  5.07e-03
## 1924 -5.29e-04 -1.78e-04  5.73e-04  5.18e-04 -3.86e-05  6.16e-05 -1.39e-04
## 1925  4.97e-03  4.81e-03  1.33e-02 -2.49e-02 -2.37e-02  1.54e-03  5.41e-02
## 1926 -1.49e-03 -2.47e-03 -2.77e-03  1.95e-02  2.48e-02 -2.10e-02 -1.39e-02
## 1927  1.64e-02  1.77e-03  1.74e-03 -7.10e-03 -2.47e-03  3.31e-03 -1.95e-03
## 1928  1.05e-02  3.47e-03 -2.40e-03 -4.08e-03  9.32e-03  5.50e-04 -2.28e-03
## 1929  2.52e-02 -5.03e-02 -1.44e-02 -5.62e-03  3.14e-02  9.05e-03  1.86e-04
## 1930  6.33e-03 -5.13e-04 -4.10e-03 -6.13e-03 -5.45e-04  6.17e-03 -1.20e-04
## 1931 -4.34e-03  1.41e-03  2.07e-03  2.56e-03  6.19e-04 -3.10e-03 -2.56e-04
## 1932  5.43e-02  1.47e-02 -5.25e-02 -5.27e-02 -7.38e-03  1.43e-02 -1.49e-02
## 1933  8.25e-03 -1.73e-03 -4.19e-03  3.06e-02 -1.18e-03  7.21e-04  1.79e-03
## 1934  6.15e-03  6.53e-03 -5.51e-03 -6.78e-03  1.89e-03  4.86e-03  1.23e-03
## 1935 -9.25e-03 -7.78e-03  5.67e-03  4.69e-03  1.17e-03 -1.16e-02 -2.92e-03
## 1936  3.42e-02 -6.96e-03 -8.00e-03 -2.62e-03 -1.28e-02 -1.27e-02 -1.17e-02
## 1937  3.29e-03  3.55e-03 -5.01e-03 -2.34e-03  1.48e-03 -1.90e-03 -2.17e-03
## 1938 -2.38e-02  2.14e-03  9.49e-03  2.94e-02  2.12e-02 -3.33e-03  1.00e-02
## 1939 -8.83e-03  2.71e-02 -8.53e-03  9.34e-03  1.63e-02 -2.76e-03  8.18e-03
## 1940  6.49e-03  1.87e-02 -4.90e-03  5.59e-03  2.89e-03  2.29e-03  1.88e-03
## 1941 -2.76e-03 -1.13e-03 -1.87e-04  1.34e-03  2.62e-03 -1.80e-03 -2.54e-03
## 1942 -3.70e-01  2.49e-01  2.32e-01  1.04e-01 -2.56e-02 -2.17e-01 -1.68e-01
## 1943  1.62e-03  5.40e-04 -1.26e-03  2.41e-03  3.68e-04  3.65e-04  5.57e-05
## 1944  4.20e-03 -5.57e-04 -3.05e-03 -2.86e-03 -1.05e-03  5.08e-04 -1.14e-03
## 1945  7.90e-03  1.42e-02 -1.22e-02  1.46e-02 -1.58e-02 -1.39e-02 -2.29e-02
## 1946  5.36e-03 -5.91e-03 -1.58e-03  1.08e-02  6.35e-03  2.35e-03  2.14e-03
## 1947  2.61e-02  1.52e-03 -2.12e-02  2.03e-03 -1.03e-02  2.55e-03 -2.35e-03
## 1948  1.45e-02  2.51e-02 -3.27e-02  1.47e-02  1.73e-02 -1.42e-02 -4.73e-03
## 1949  1.95e-02  4.16e-02 -1.09e-02  8.64e-03 -1.48e-02  4.69e-03 -1.13e-02
## 1950 -8.52e-03  2.69e-03  2.35e-03 -1.29e-03 -1.01e-03  3.36e-03  3.38e-03
## 1951 -4.45e-04 -2.28e-05 -1.51e-03  3.18e-04  3.59e-03 -9.26e-04 -6.84e-04
## 1952  7.37e-03 -1.60e-03 -1.70e-03 -1.01e-03 -5.20e-03 -1.91e-03 -7.43e-04
## 1953  1.16e-02 -1.33e-05 -7.27e-03  2.57e-02  1.55e-02  5.81e-03  5.00e-03
## 1954 -1.34e-02  9.39e-03  1.69e-02 -6.49e-03 -1.73e-02 -3.63e-03 -1.43e-03
## 1955 -4.24e-03  8.29e-03 -4.44e-03  1.49e-03  2.08e-02  5.27e-03  7.65e-03
## 1956  2.72e-02  8.58e-03 -9.70e-03 -2.97e-02 -1.66e-02  1.79e-02  4.85e-03
## 1957  3.86e-05  3.79e-03 -2.38e-03  3.37e-04  2.01e-03 -1.28e-03  1.69e-04
## 1958  5.72e-02  7.87e-02 -3.66e-02  5.78e-02 -5.49e-02 -3.15e-02 -8.89e-02

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## 1959  4.82e-03  2.56e-02  5.49e-03 -1.54e-02 -3.69e-02 -9.74e-03 -1.45e-02
## 1960  1.81e-02 -1.00e-02 -1.07e-02 -1.04e-02 -1.40e-02  9.39e-03  2.62e-04
## 1961  2.39e-02 -3.52e-03 -2.60e-04 -4.94e-03 -8.46e-03  5.11e-03  3.12e-03
## 1962  7.29e-02 -9.24e-02 -3.58e-03  1.14e-02 -3.13e-02 -2.80e-02 -2.26e-02
## 1963 -1.71e-02  5.03e-04  8.37e-04  6.07e-03  5.77e-03  4.02e-03  2.29e-03
## 1964  8.24e-03  2.61e-03 -3.18e-03  1.13e-03 -6.57e-03 -4.64e-04 -1.42e-03
## 1965 -1.53e-01  1.17e-02 -9.21e-03  1.09e-01 -3.23e-02 -1.52e-01 -4.81e-02
## 1966  2.77e-03  2.56e-02  2.55e-02 -3.08e-03 -4.37e-02  7.00e-03  8.05e-03
## 1967  1.36e-02 -2.17e-02  3.08e-03  2.91e-02  8.65e-04 -1.12e-02 -9.23e-03
## 1968 -2.54e-03 -4.59e-04  1.10e-03 -1.23e-03  1.75e-03  1.86e-03  2.21e-03
## 1969  3.48e-02  4.33e-02 -5.78e-02  4.56e-02  2.88e-02  4.24e-03 -3.46e-03
## 1970 -4.29e-03 -1.08e-03  2.13e-03  2.14e-03  1.38e-03  4.01e-04 -3.10e-03
## 1971  2.07e-02 -2.78e-03 -8.13e-03 -1.74e-02 -6.15e-03  7.35e-03 -4.97e-03
## 1972 -6.59e-03 -7.51e-04  5.91e-04  6.38e-03  4.02e-03 -5.71e-03  1.96e-04
## 1973  2.65e-02  1.05e-02 -9.05e-03  3.01e-02 -3.66e-02  7.21e-03  1.24e-02
## 1974  1.45e-03  9.32e-04 -5.16e-03  1.11e-03  2.06e-03  2.12e-03  2.59e-03
## 1975 -2.08e-02 -3.41e-03  9.43e-03  1.38e-02  9.84e-03 -1.04e-02  2.31e-03
## 1976 -5.98e-03 -1.18e-02  1.91e-03 -1.40e-02 -1.15e-03 -4.15e-03 -2.46e-03
## 1977 -2.17e-03 -9.51e-03  1.10e-03 -5.89e-03  1.02e-02  3.02e-03  7.42e-04
## 1978  1.03e-02  2.31e-03 -5.88e-03 -1.82e-03  3.89e-03 -6.72e-03 -3.87e-03
## 1979 -1.28e-02 -9.41e-03 -7.95e-03  4.17e-02 -4.09e-02 -6.50e-02 -1.10e-01
## 1980 -1.35e-02  1.26e-02 -2.81e-03  1.04e-02  1.36e-04 -1.37e-02 -2.10e-03
## 1981 -2.67e-02  2.33e-02 -1.35e-02  4.77e-02 -9.67e-03 -3.44e-02 -5.56e-03
## 1982  6.66e-03  1.34e-03 -1.92e-03  1.78e-03 -3.07e-03  1.68e-03  1.54e-03
## 1983 -1.31e-02 -3.17e-03  7.45e-03  1.34e-02  4.53e-03 -6.85e-03 -8.71e-04
## 1984  5.22e-03 -9.16e-03 -4.65e-02 -1.42e-02  4.20e-02  1.30e-02  1.85e-03
## 1985  1.48e-02 -4.63e-03 -5.90e-03 -8.24e-03  1.70e-03 -5.66e-03 -5.83e-03
## 1986 -5.31e-04  7.57e-04  2.21e-04  1.21e-03 -1.94e-04  2.13e-04 -2.50e-04
## 1987  9.81e-04  5.80e-04 -1.36e-03  1.37e-03  8.68e-04 -2.45e-03 -5.53e-04
## 1988  5.48e-05 -3.37e-05  6.22e-05 -4.78e-05 -3.73e-05  9.03e-05  1.68e-05
## 1989  2.51e-02  7.22e-03  2.69e-02  2.53e-03 -3.88e-02  1.69e-02 -1.20e-03
## 1990  2.35e-03 -2.66e-03 -4.70e-03  1.42e-03  3.66e-03 -2.47e-03 -1.10e-03
## 1991 -5.30e-03  1.63e-02  9.87e-03  4.90e-03 -7.90e-03  2.21e-02  7.64e-03
## 1992  3.89e-04 -1.08e-03 -6.27e-04  2.04e-03  1.34e-03  7.91e-04  6.16e-04
## 1993  8.56e-04  1.17e-02 -1.74e-03 -4.28e-03  3.80e-03 -2.63e-03 -2.24e-03
## 1994 -2.27e-03  4.62e-03 -2.65e-03 -1.17e-03 -7.97e-05  1.20e-03  3.81e-03
## 1995  3.62e-03 -9.71e-03 -2.45e-03 -1.51e-02 -1.41e-03  2.25e-02  6.37e-03
## 1996 -6.23e-05 -1.44e-04  1.07e-04  2.73e-05 -5.60e-05 -1.32e-04 -3.05e-05
## 1997  1.60e-02 -1.39e-03 -1.21e-02 -5.18e-03 -3.80e-03 -2.68e-03 -6.74e-03
## 1998  2.64e-03  1.34e-03  2.68e-03 -3.74e-03 -3.52e-03  3.75e-03  6.39e-04
## 1999  7.66e-03 -2.51e-03 -2.87e-02 -2.47e-02  3.23e-02  1.47e-02 -1.06e-02
## 2000  5.37e-03  1.17e-03 -1.96e-03 -1.82e-02  6.73e-03  4.46e-03 -5.33e-03
## 2001  3.00e-02  1.04e-02  1.33e-02  2.01e-02 -1.10e-02  2.04e-02  7.99e-03
## 2002  1.72e-04 -1.70e-04  1.77e-04 -4.11e-04  3.07e-04  7.43e-04  2.56e-04
## 2003  4.86e-04  6.27e-04  7.66e-04  1.71e-03 -6.38e-04 -1.13e-03  7.10e-04
## 2004 -1.47e-03 -1.11e-03  2.27e-03 -9.48e-04 -5.26e-04  1.19e-03  6.05e-04
## 2005  2.25e-02  1.20e-02  7.45e-04 -5.11e-03 -1.08e-02  3.03e-03 -2.15e-02
## 2006 -2.95e-03  8.35e-05  4.93e-04 -4.26e-03  2.94e-03  2.24e-03 -4.29e-05
## 2007 -2.29e-03  3.50e-03  4.73e-03  1.06e-03 -4.89e-03  1.28e-03  1.18e-03
## 2008 -9.46e-03  4.25e-03  8.09e-03 -2.70e-03 -1.20e-02  5.35e-03  5.06e-03
## 2009  5.61e-02 -4.64e-02 -3.09e-02 -3.79e-02  1.30e-04  3.72e-02  1.84e-02
## 2010  7.39e-03  1.79e-02  5.16e-04  9.73e-03 -1.74e-02 -3.61e-02 -8.40e-03
## 2011 -2.56e-02  2.06e-02  2.81e-02 -1.29e-03  1.53e-02  1.59e-02  1.07e-02
## 2012  3.99e-03 -1.18e-01 -7.58e-04  6.04e-03  5.45e-02  3.02e-02  3.32e-03

```

##	2013	-4.44e-03	-7.57e-03	5.52e-04	9.09e-05	2.53e-03	-4.76e-03	-6.68e-04
##	2014	2.24e-02	-2.51e-03	-6.99e-03	7.19e-03	-1.06e-02	8.15e-03	2.84e-03
##	2015	-2.77e-04	-1.18e-02	4.81e-03	-7.32e-03	6.57e-03	2.03e-02	2.62e-03
##	2016	3.47e-02	3.13e-02	1.55e-02	-2.02e-02	-1.83e-02	3.92e-02	1.71e-02
##	2017	3.87e-03	-3.77e-03	-2.97e-03	-7.06e-03	8.26e-04	1.58e-03	-1.54e-03
##	2018	-7.16e-03	6.22e-03	-1.01e-02	-2.04e-02	1.31e-02	-1.59e-03	-1.10e-03
##	2019	3.51e-03	-1.79e-02	5.77e-03	8.02e-04	-1.28e-02	-1.77e-02	-1.85e-03
##	2020	7.66e-03	-2.65e-04	-3.50e-03	6.09e-03	9.39e-03	1.34e-02	6.51e-03
##	2021	4.46e-02	-6.61e-04	-3.74e-02	-2.73e-02	-1.49e-02	2.79e-02	6.58e-03
##	2022	4.25e-02	-1.09e-01	2.67e-03	-1.30e-02	5.52e-03	-3.31e-03	1.51e-03
##	2023	-3.48e-04	5.64e-04	-4.80e-04	1.15e-03	3.36e-06	-9.17e-04	6.25e-05
##	2024	-4.06e-03	5.68e-03	8.61e-05	-2.44e-03	2.95e-03	-3.87e-03	-1.96e-03
##	2025	-4.80e-04	-4.79e-04	5.50e-04	-6.95e-04	-1.33e-03	-8.79e-04	-1.26e-03
##	2026	-1.16e-04	-4.45e-03	-2.74e-03	6.40e-03	6.26e-03	4.94e-03	2.15e-03
##	2027	5.90e-02	-5.56e-02	-3.03e-02	-5.03e-02	-9.49e-03	3.77e-02	4.07e-03
##	2028	-2.24e-03	-1.27e-03	7.67e-04	-3.21e-03	-2.04e-03	3.71e-05	-8.70e-04
##	2029	6.92e-03	1.79e-02	1.11e-02	-1.89e-02	-1.57e-02	1.52e-02	-6.35e-03
##	2030	7.59e-04	4.54e-03	-1.01e-02	7.31e-03	2.50e-03	-6.94e-03	-5.47e-03
##	2031	8.78e-03	-7.63e-03	-6.64e-03	1.04e-02	8.10e-03	-6.51e-03	-3.20e-03
##	2032	-1.75e-03	1.28e-03	2.81e-03	1.21e-03	-7.74e-04	1.26e-04	4.13e-04
##	2033	-3.18e-03	-7.91e-03	7.56e-03	-7.54e-03	1.02e-02	6.35e-03	-1.86e-03
##	2034	5.63e-06	4.56e-04	-4.44e-04	-1.36e-03	9.04e-04	2.63e-04	-1.35e-05
##	2035	3.43e-02	1.20e-02	-1.41e-02	1.33e-02	-4.41e-02	1.70e-02	8.08e-03
##	2036	1.00e-02	-5.66e-02	-5.74e-03	3.24e-02	1.56e-02	-2.07e-02	-1.78e-02
##	2037	7.92e-05	9.18e-04	8.57e-04	-2.74e-03	1.35e-03	2.40e-03	-2.02e-04
##	2038	-1.66e-02	4.06e-03	6.96e-03	-5.85e-03	9.14e-03	6.23e-03	-2.38e-03
##	2039	-1.71e-03	3.66e-03	3.59e-03	-6.97e-04	-3.90e-03	-5.25e-03	-1.86e-03
##	2040	3.38e-02	2.25e-02	-1.50e-03	3.28e-03	5.58e-03	4.47e-02	1.06e-02
##	2041	2.21e-04	1.58e-04	-9.95e-04	-8.42e-04	3.00e-04	-4.98e-04	-2.65e-04
##	2042	-1.37e-03	2.63e-03	1.60e-03	-2.18e-03	-3.43e-04	-2.63e-03	-1.56e-03
##	2043	-1.67e-02	-5.47e-02	1.49e-02	3.80e-04	-6.05e-04	-2.69e-03	-1.25e-02
##	2044	-7.49e-03	1.26e-02	9.39e-03	-9.58e-03	-2.27e-03	1.32e-02	3.11e-03
##	2045	-5.39e-03	-2.11e-03	9.54e-03	4.74e-04	-1.82e-03	5.32e-03	-2.95e-04
##	2046	5.78e-03	-7.18e-03	8.89e-03	-1.54e-02	-1.95e-02	5.73e-03	-2.63e-02
##	2047	6.62e-02	-3.43e-02	-5.13e-02	-3.28e-02	1.14e-03	4.03e-02	6.43e-03
##	2048	8.96e-02	-3.77e-02	-3.78e-02	-4.87e-02	-3.18e-02	4.67e-02	1.33e-02
##	2049	-3.80e-03	4.90e-03	7.23e-03	-2.46e-03	-6.20e-03	1.56e-03	1.36e-03
##	2050	-1.59e-02	-2.20e-02	3.19e-02	5.59e-03	-8.99e-03	2.15e-02	1.45e-02
##	2051	-1.44e-02	-2.82e-02	-4.09e-03	8.49e-03	2.56e-02	-2.90e-02	-6.71e-03
##	2052	9.62e-03	-2.56e-03	1.21e-03	-2.30e-03	8.91e-03	2.41e-02	2.45e-03
##	2053	-1.07e-03	-1.75e-03	6.61e-04	3.76e-03	2.58e-03	-2.22e-04	3.30e-04
##	2054	4.52e-03	-5.53e-03	8.45e-04	-7.69e-03	-9.85e-03	1.86e-02	4.56e-03
##	2055	-7.09e-03	-6.23e-04	2.09e-03	-1.01e-03	-1.70e-03	-5.55e-03	-1.24e-03
##	2056	-1.60e-02	2.02e-02	1.38e-02	1.44e-02	3.51e-03	-2.21e-02	-4.54e-03
##	2057	2.00e-02	-4.52e-03	1.84e-03	-6.18e-03	-1.43e-02	1.58e-02	5.83e-03
##	2058	1.03e-03	-1.68e-04	1.26e-03	1.31e-03	-2.58e-03	-7.08e-04	1.66e-04
##	2059	1.43e-03	-5.83e-03	2.82e-03	-4.79e-03	1.55e-02	1.80e-02	3.21e-03
##	2060	-4.44e-03	3.48e-02	8.59e-03	1.70e-02	-1.14e-02	2.76e-02	1.76e-02
##	2061	-7.69e-04	-1.26e-02	-1.20e-02	1.26e-02	1.03e-02	-4.71e-03	-5.42e-03
##	2062	2.41e-03	-2.96e-02	1.44e-02	2.23e-02	-1.40e-02	-2.30e-03	-2.30e-03
##	2063	-2.97e-04	-2.89e-04	2.60e-04	1.79e-04	4.41e-06	-5.08e-04	-1.81e-04
##	2064	1.16e-02	-8.89e-04	4.30e-03	3.84e-04	-3.37e-03	-2.74e-03	7.03e-04
##	2065	-2.21e-02	2.59e-02	-1.65e-03	-2.34e-02	-2.25e-03	-1.54e-02	1.80e-02
##	2066	-1.52e-01	-1.76e-02	3.53e-02	4.60e-02	-1.25e-01	1.31e-01	4.02e-02

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## 2067 -7.93e-02 -3.94e-02 2.38e-02 -3.25e-03 -9.68e-03 5.07e-02 2.57e-02
## 2068 1.10e-04 2.41e-04 -7.85e-06 1.67e-05 9.63e-05 9.04e-06 -1.35e-04
## 2069 -1.70e-02 1.56e-02 1.03e-02 -4.73e-02 3.25e-02 -4.39e-03 -2.01e-03
## 2070 -1.18e-02 -1.66e-04 7.10e-03 9.67e-03 7.08e-03 -6.05e-03 1.77e-03
## 2071 -3.26e-02 -6.32e-03 -2.65e-02 -2.45e-02 6.31e-02 4.08e-02 6.96e-03
## 2072 3.77e-04 -9.40e-03 -1.06e-02 1.17e-02 -2.88e-02 1.19e-02 -5.82e-03
## 2073 2.34e-03 5.62e-03 6.50e-04 8.46e-04 -7.71e-03 -2.32e-03 -3.43e-03
## 2074 3.65e-03 -4.67e-03 1.40e-03 1.89e-03 -1.92e-02 1.07e-02 7.32e-03
## 2075 -1.55e-02 -1.79e-02 1.62e-02 4.90e-03 8.54e-03 1.38e-03 7.50e-03
## 2076 -2.01e-02 -5.84e-02 2.56e-02 -2.14e-03 1.39e-03 -1.65e-02 -1.94e-03
## 2077 -2.43e-02 1.72e-02 9.61e-03 2.63e-02 -5.34e-03 -1.89e-02 8.97e-03
## 2078 -5.39e-02 -2.04e-02 2.29e-02 8.60e-03 4.83e-03 2.95e-02 9.56e-03
## 2079 -1.79e-02 7.51e-02 6.16e-02 1.02e-01 -7.17e-02 -2.25e-02 1.97e-02
## 2080 1.73e-02 6.14e-02 -1.83e-02 -9.56e-02 -1.09e-02 1.25e-02 -7.66e-03
## 2081 -7.89e-03 -5.19e-03 -9.36e-05 5.30e-03 1.05e-02 4.77e-03 3.57e-03
## 2082 -7.99e-03 3.84e-04 -3.45e-03 1.46e-02 4.35e-03 -7.70e-03 -2.71e-03
## 2083 -1.50e-04 9.88e-04 5.81e-04 1.50e-03 -6.82e-04 -5.15e-04 -7.34e-05
## 2084 -6.14e-04 4.47e-04 5.64e-04 -1.04e-05 3.63e-04 5.49e-04 -7.73e-05
## 2085 4.82e-03 -8.09e-04 -6.81e-03 -3.13e-03 9.94e-04 -2.30e-03 -9.22e-05
## 2086 2.39e-03 -1.26e-02 7.84e-03 -7.04e-03 -7.64e-03 9.40e-03 2.77e-03
## 2087 1.49e-03 -2.62e-03 -3.76e-03 -8.58e-03 2.53e-03 -2.72e-04 -3.54e-02
## 2088 -1.13e-04 7.86e-04 -4.31e-04 -2.93e-04 2.70e-04 4.25e-04 -1.33e-05
## 2089 1.73e-02 -1.47e-02 -1.40e-02 -7.20e-03 3.98e-03 6.64e-03 -2.57e-02
## 2090 5.25e-02 -3.43e-02 -3.40e-02 -2.51e-03 -2.37e-03 3.06e-02 -3.11e-02
## 2091 1.09e-03 -1.94e-03 -1.66e-03 2.80e-03 -4.00e-03 -5.60e-03 7.34e-04
## 2092 4.91e-05 8.17e-04 -1.38e-03 -3.16e-05 5.74e-04 1.63e-04 -7.32e-05
## 2093 -3.89e-04 4.30e-04 -7.11e-04 5.46e-05 2.86e-04 2.51e-04 1.13e-03
## 2094 5.80e-03 1.49e-03 -8.85e-04 -2.93e-03 -1.02e-02 -6.08e-03 1.02e-03
## 2095 3.06e-03 -8.85e-03 1.08e-03 -8.26e-04 4.14e-03 -9.92e-03 -2.33e-03
## 2096 -6.13e-03 -1.36e-02 1.05e-02 9.19e-03 1.42e-02 -1.59e-02 -2.52e-04
## 2097 2.36e-03 6.16e-04 -5.84e-04 7.21e-04 -1.88e-03 -7.14e-03 -2.79e-03
## 2098 1.83e-03 -1.30e-02 7.06e-03 -3.12e-03 -2.39e-03 6.83e-03 -1.12e-03
## 2099 9.25e-04 -4.44e-04 1.84e-03 -1.64e-03 -4.57e-03 -1.63e-03 5.22e-04
## 2100 1.34e-02 -1.45e-02 7.34e-03 2.09e-03 -8.26e-03 -6.18e-03 5.19e-03
## 2101 2.93e-03 8.29e-04 -1.26e-02 1.08e-02 6.76e-03 -1.27e-02 -2.51e-02
## 2102 -1.16e-03 -1.04e-03 4.30e-03 -3.24e-03 -5.47e-03 -2.33e-03 4.28e-04
## 2103 1.26e-03 -5.95e-03 2.47e-03 -4.14e-03 4.51e-05 -5.06e-03 2.72e-04
## 2104 9.34e-04 -1.31e-03 4.00e-04 1.77e-04 -9.88e-04 -8.67e-04 6.57e-05
## 2105 4.27e-03 -7.47e-03 3.73e-03 -1.97e-03 -3.51e-03 -3.26e-03 2.26e-03
## 2106 5.51e-03 -1.45e-02 9.25e-03 -1.36e-02 -4.94e-03 1.57e-02 -7.14e-03
## 2107 1.05e-02 -3.74e-02 9.72e-03 5.17e-03 -4.24e-03 -3.67e-03 7.37e-03
## 2108 -1.41e-02 -1.27e-02 8.47e-03 -3.56e-04 1.06e-03 -6.97e-03 -1.37e-03
## 2109 6.45e-04 1.17e-03 7.59e-05 9.54e-04 -5.69e-04 -1.18e-03 -9.95e-04
## 2110 8.82e-04 -3.48e-04 -6.26e-04 -7.64e-04 -1.79e-03 -6.46e-04 3.18e-04
## 2111 3.58e-02 -1.74e-02 -3.41e-02 -3.41e-02 -1.72e-02 -2.58e-04 -6.62e-03
## 2112 -1.03e-02 1.28e-02 2.66e-02 6.12e-03 -3.09e-02 1.20e-02 6.03e-03
## 2113 1.22e-02 -1.18e-02 -2.13e-02 -2.15e-02 1.59e-03 -3.60e-03 -3.67e-03
## 2114 -8.29e-03 -4.03e-03 -1.66e-02 -1.88e-02 8.69e-03 4.94e-03 6.93e-04
## 2115 1.20e-03 -8.14e-03 1.02e-03 -7.14e-03 -4.05e-03 5.99e-03 3.64e-03
## 2116 -1.36e-02 1.25e-02 1.51e-02 -1.53e-02 4.85e-04 5.93e-02 1.63e-02
## 2117 -1.15e-02 2.51e-02 1.16e-02 -8.55e-03 -6.22e-03 1.70e-02 1.41e-02
## 2118 2.86e-03 1.96e-03 1.94e-04 -7.25e-03 -5.71e-03 2.41e-03 4.74e-04
## 2119 -2.43e-02 -7.19e-03 1.83e-02 7.44e-04 -9.55e-05 -9.74e-03 3.12e-03
## 2120 3.50e-03 -4.30e-03 -2.83e-03 -3.38e-03 -4.74e-03 -5.27e-03 -6.87e-03

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## 2121 1.77e-03 -8.10e-03 6.18e-03 4.49e-03 -6.38e-03 6.07e-03 3.32e-04
## 2122 -7.65e-05 1.21e-04 -2.37e-03 1.34e-03 1.02e-02 7.43e-03 3.95e-04
## 2123 2.21e-03 9.14e-03 9.18e-03 -5.02e-03 -1.93e-02 1.44e-02 2.70e-03
## 2124 1.53e-03 2.85e-03 -2.55e-03 2.98e-03 2.88e-03 1.10e-03 1.69e-04
## 2125 7.46e-04 -1.48e-03 -8.53e-04 -2.88e-03 -6.12e-04 3.56e-03 1.30e-03
## 2126 -1.32e-03 5.37e-04 1.47e-03 2.09e-03 8.86e-04 2.33e-04 4.06e-03
## 2127 3.72e-03 1.54e-03 3.79e-03 -2.33e-02 -1.21e-02 1.65e-02 4.86e-03
## 2128 -7.08e-03 -5.47e-03 3.56e-03 -1.11e-02 1.53e-03 -1.87e-03 -1.47e-03
## 2129 -2.38e-03 -3.23e-03 6.42e-03 8.49e-03 6.19e-03 -9.84e-03 -5.99e-03
## 2130 2.42e-02 -1.47e-02 -8.85e-03 -4.55e-02 -4.06e-02 -1.61e-02 -1.35e-02
## 2131 -1.46e-04 3.76e-04 2.71e-04 4.44e-04 1.02e-03 -1.60e-04 -1.20e-04
## 2132 1.18e-02 -2.63e-03 -6.84e-03 2.86e-03 -5.88e-03 -5.91e-03 -4.36e-03
## 2133 -1.31e-04 -7.94e-06 2.50e-04 4.84e-04 -4.99e-04 1.48e-04 1.16e-05
## 2134 3.39e-03 -2.88e-03 -5.27e-03 -7.65e-03 7.20e-03 -6.21e-03 -3.83e-03
## 2135 1.39e-02 -1.75e-02 -2.37e-02 -6.51e-03 6.42e-03 -9.95e-03 -2.53e-03
## 2136 -3.21e-03 -7.22e-04 3.03e-03 -2.11e-03 -2.93e-04 -1.55e-04 1.08e-03
## 2137 9.43e-03 -7.61e-03 5.72e-04 1.60e-03 -1.59e-02 -4.90e-03 -3.30e-03
## 2138 1.14e-02 -1.14e-02 -2.85e-03 -8.48e-03 -5.72e-04 6.80e-03 4.02e-03
## 2139 -4.63e-05 7.89e-05 -2.91e-03 -6.34e-03 1.77e-03 7.90e-03 1.00e-02
## 2140 -7.38e-03 3.07e-03 1.17e-02 -4.21e-04 -7.98e-03 1.36e-02 9.20e-03
## 2141 1.33e-03 -4.85e-03 -2.46e-03 7.11e-04 1.45e-04 4.81e-03 8.95e-04
## 2142 6.71e-04 1.00e-03 -1.16e-03 5.53e-04 9.84e-04 -2.33e-03 -1.49e-03
## 2143 1.77e-03 2.93e-03 -4.32e-03 -5.57e-04 5.59e-03 9.97e-04 -1.04e-03
## 2144 -7.41e-03 -1.45e-02 6.48e-04 4.17e-03 1.34e-02 -1.76e-02 -8.39e-03
## 2145 -3.45e-02 2.57e-03 3.44e-02 2.02e-03 -1.95e-02 -1.17e-02 -4.35e-03
## 2146 7.51e-04 -2.84e-03 3.15e-04 -1.74e-03 6.38e-04 4.32e-03 2.06e-03
## 2147 1.16e-02 1.81e-03 -1.60e-02 -4.29e-03 9.91e-04 1.01e-02 5.40e-03
## 2148 -1.02e-02 -1.48e-02 4.40e-03 -5.56e-03 4.39e-03 2.11e-02 -5.91e-03
## 2149 -3.53e-03 1.53e-04 6.80e-03 -8.74e-04 -2.65e-03 6.70e-03 3.32e-03
## 2150 6.24e-04 -2.74e-04 -5.93e-04 3.81e-04 -5.84e-04 6.52e-04 4.33e-04
## 2151 -1.22e-02 -4.69e-03 6.02e-03 -1.87e-02 -1.40e-03 -9.97e-03 -7.33e-04
## 2152 -6.72e-03 -1.51e-02 9.39e-03 -1.82e-02 6.51e-03 8.28e-04 -8.18e-04
## 2153 -2.85e-03 2.99e-03 3.51e-03 -4.80e-03 -2.22e-03 1.38e-02 5.92e-03
## 2154 -6.44e-03 -9.75e-03 1.56e-03 -1.16e-02 1.99e-02 -3.59e-02 -1.78e-02
## 2155 -1.17e-02 3.89e-02 1.49e-02 -1.66e-03 -9.11e-03 3.62e-02 1.30e-02
## 2156 -1.37e-02 -1.98e-03 2.45e-02 5.43e-04 -1.10e-02 1.59e-02 1.10e-02
## 2157 3.47e-02 -1.07e-01 -2.33e-02 -7.01e-03 2.93e-02 -7.17e-02 -5.51e-02
## 2158 -1.84e-03 9.24e-03 4.73e-04 -4.32e-03 -1.02e-03 3.18e-03 -1.37e-03
## 2159 -1.35e-02 4.80e-03 1.23e-02 1.13e-03 1.72e-03 1.94e-03 1.72e-03
## 2160 2.22e-02 2.92e-02 -4.39e-02 1.23e-03 2.46e-02 -1.79e-02 -1.06e-02
## 2161 -3.99e-02 4.04e-02 3.02e-02 -5.79e-03 6.48e-04 4.47e-02 2.33e-02
## 2162 -1.09e-03 -2.65e-03 -3.47e-03 2.20e-03 3.62e-03 -1.98e-03 -1.79e-03
## 2163 -4.88e-03 -2.53e-02 -3.29e-04 2.59e-03 -4.98e-03 -1.35e-02 -3.58e-03
## 2164 -2.63e-02 3.52e-02 3.59e-02 -7.43e-03 -1.55e-02 3.54e-02 1.71e-02
## 2165 1.87e-02 1.88e-02 -3.72e-02 -2.58e-03 1.56e-02 1.41e-02 -6.02e-03
## 2166 -2.47e-02 1.39e-02 3.02e-02 2.77e-03 -6.29e-03 -3.58e-04 2.54e-03
## 2167 -8.84e-03 3.32e-02 -3.63e-03 -3.30e-02 -2.22e-02 3.76e-02 1.26e-02
## 2168 -5.17e-03 4.58e-03 2.59e-03 3.65e-04 4.72e-03 1.39e-03 3.97e-04
## 2169 -1.02e-02 1.20e-02 7.58e-03 -1.11e-02 -2.49e-03 4.99e-03 -1.87e-03
## 2170 -6.90e-03 1.10e-02 9.89e-03 1.15e-03 -2.62e-03 1.04e-03 -2.27e-03
## 2171 -2.89e-02 3.46e-02 2.96e-02 -2.20e-03 4.28e-04 1.27e-02 7.10e-03
## 2172 -3.53e-03 -1.23e-03 9.54e-04 -4.02e-04 4.46e-04 2.86e-03 2.16e-03
## 2173 -8.90e-03 1.89e-02 2.98e-03 3.59e-03 1.24e-02 6.66e-03 3.22e-04
## 2174 -1.87e-02 -3.73e-02 2.99e-02 -1.58e-03 2.99e-03 -6.24e-03 -3.22e-02

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## 2175 -4.00e-03  9.97e-03 -3.28e-03 -1.41e-02  3.87e-03 -1.32e-03  4.18e-04
## 2176 -9.29e-02  5.57e-02  1.42e-01 -2.08e-03 -5.43e-02  8.26e-02  5.57e-02
## 2177 -1.57e-04 -3.35e-03  1.75e-04  1.55e-03  4.02e-04 -4.50e-03 -7.72e-04
## 2178 -4.06e-02  3.66e-02  3.99e-02 -9.43e-03 -4.07e-03  2.00e-02  2.07e-02
## 2179 -5.77e-03  2.15e-03  4.37e-03 -4.69e-03 -1.99e-04  7.15e-03 -1.70e-03
## 2180 -2.90e-02  3.61e-02  1.73e-02 -1.08e-02 -1.41e-02  1.05e-02  3.88e-03
## 2181 -1.09e-02 -9.14e-03  1.19e-02  2.51e-02  3.83e-03 -1.83e-04  2.06e-03
## 2182 -1.77e-03  4.43e-03  2.34e-03 -1.51e-03 -2.63e-03  1.59e-03 -2.23e-04
## 2183 -9.64e-03 -9.15e-03 -5.68e-03 -1.66e-02  2.41e-02  2.43e-02 -5.41e-03
## 2184 -1.33e-02 -2.44e-02  2.13e-03 -1.09e-02  1.32e-02 -3.44e-03 -6.27e-03
## 2185 -8.07e-04  1.23e-02 -1.02e-02 -1.13e-02 -4.97e-03  1.10e-02  4.60e-04
## 2186  6.47e-04 -9.21e-04 -7.85e-04 -1.62e-03 -1.12e-03  4.69e-04 -7.91e-04
## 2187  8.80e-04  8.22e-03  9.23e-03  4.54e-03  1.66e-03  6.89e-03 -2.05e-03
## 2188 -1.60e-04 -1.16e-03  2.03e-03 -1.54e-03  1.03e-03  1.14e-02  1.22e-03
## 2189  1.80e-04 -2.04e-03 -1.79e-03 -2.22e-03  4.54e-04 -1.03e-03  1.90e-03
## 2190  7.96e-03 -7.28e-04 -2.34e-02 -1.28e-02  7.76e-03 -1.13e-03 -1.08e-02
## 2191  1.66e-03 -3.15e-03 -9.64e-03 -6.26e-03  6.97e-03  5.32e-03 -1.08e-03
## 2192  9.16e-05  2.33e-05 -2.28e-03 -2.38e-03  6.12e-04 -7.97e-04  3.06e-05
## 2193  7.11e-05  1.11e-04 -9.06e-04 -5.35e-04  1.58e-03  1.40e-03  5.10e-05
## 2194  1.63e-03  4.52e-03  2.02e-05  2.48e-03 -3.22e-03 -3.47e-03 -6.57e-04
## 2195  9.58e-03  4.23e-03 -1.98e-02 -1.13e-02  1.52e-02  1.03e-02 -5.85e-03
## 2196 -1.54e-02  2.51e-02 -5.99e-04 -2.18e-02  2.42e-03  2.15e-02  8.11e-03
## 2197 -4.43e-03  1.15e-02 -1.41e-02 -2.09e-02  1.02e-02  5.90e-04 -1.30e-02
## 2198 -4.39e-03  2.27e-03  4.82e-03 -4.90e-03 -1.84e-05  5.95e-03  1.70e-03
## 2199 -3.02e-03  1.28e-03  5.11e-03  4.03e-03 -9.33e-03 -1.43e-02 -1.70e-03
## 2200 -5.68e-03  2.58e-03  6.69e-04 -9.78e-03  8.86e-03  1.39e-02  1.34e-03
## 2201 -4.53e-05 -3.69e-04 -4.20e-04 -8.67e-04  3.47e-04  1.38e-04  5.31e-05
## 2202 -5.83e-04 -8.05e-04 -3.82e-04  1.23e-03  7.05e-04 -1.32e-03  2.33e-04
## 2203  2.12e-03  2.91e-03 -7.23e-03 -1.26e-02  3.51e-03  3.88e-03 -2.28e-03
## 2204 -5.08e-02 -1.18e-02  3.20e-02  2.75e-02  3.25e-03 -9.67e-03 -4.85e-03
## 2205 -4.42e-03  5.83e-03 -4.92e-03  1.19e-03  7.18e-03 -8.79e-03 -1.02e-02
## 2206 -8.81e-04  6.30e-05  1.48e-04 -7.72e-04  7.46e-04  5.36e-04 -2.47e-04
## 2207  8.57e-03  8.20e-03 -1.06e-02 -2.68e-03  1.75e-05  7.30e-03  1.46e-04
## 2208  1.42e-03  3.90e-04 -3.26e-03 -4.10e-03  4.04e-03  5.36e-03 -1.26e-03
## 2209  1.32e-02 -6.56e-03 -4.98e-03 -1.23e-02  1.64e-03  4.08e-03 -2.08e-03
## 2210 -8.87e-03 -1.81e-03  1.65e-02  1.01e-02 -9.97e-03 -8.33e-03  3.12e-03
## 2211  5.75e-03  7.60e-03 -4.52e-03  1.46e-03 -1.26e-03  4.98e-03 -9.65e-04
## 2212 -1.03e-03 -1.16e-03  3.20e-04 -1.47e-03  1.16e-03  1.01e-03  3.08e-05
## 2213 -2.87e-04  2.15e-03 -3.88e-03  3.59e-03  1.58e-03 -4.47e-03 -3.85e-03
## 2214  1.56e-03 -1.74e-03 -2.06e-03 -2.32e-03  1.27e-03  1.88e-03 -6.96e-04
## 2215 -7.71e-03  1.15e-02 -5.78e-03 -6.61e-03  8.77e-03  3.42e-03 -1.55e-03
## 2216  1.56e-02 -9.11e-03 -2.82e-02 -3.61e-03  2.30e-02  1.76e-02 -2.76e-03
## 2217  6.26e-03 -1.08e-02 -1.82e-02 -1.94e-02  1.80e-02  1.29e-02 -2.25e-03
## 2218 -9.64e-04  5.14e-03 -2.41e-03  1.81e-03  2.00e-03  8.85e-04 -1.02e-03
## 2219 -6.37e-03  5.87e-03  9.51e-03 -2.12e-03 -4.41e-03  8.13e-03  1.94e-03
## 2220 -3.53e-03  1.63e-02 -4.11e-03 -8.04e-04  3.50e-03  1.32e-02  4.91e-03
## 2221  2.21e-03  2.50e-03 -3.53e-03 -1.11e-03 -7.97e-04 -3.14e-03 -7.43e-04
## 2222 -2.73e-02 -4.58e-03  1.85e-02 -2.07e-02 -1.17e-02  6.47e-03  1.26e-03
## 2223 -1.70e-03 -4.17e-03 -1.03e-03 -1.23e-03 -8.49e-04  8.52e-04 -6.53e-04
## 2224  8.68e-04  1.28e-03 -3.94e-03 -2.36e-03  2.73e-03  8.46e-04 -8.91e-04
## 2225  2.80e-03  6.59e-04 -3.95e-04  4.74e-04  3.32e-05  3.18e-04  6.04e-04
## 2226 -6.41e-05  1.87e-04 -2.06e-04 -4.04e-04  1.19e-04  5.91e-04 -8.12e-06
## 2227  5.55e-03 -7.73e-03 -8.82e-03 -2.17e-02  9.82e-03  1.21e-02 -5.42e-03
## 2228  7.11e-04  3.20e-03 -1.10e-03 -1.14e-03  3.71e-04  3.49e-03  2.70e-04

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## 2229 -8.41e-03 -2.57e-03 -1.42e-02 -2.01e-02 1.95e-02 9.68e-03 -6.19e-04
## 2230 7.70e-03 1.66e-02 -1.51e-02 -1.70e-02 5.53e-04 2.86e-02 1.27e-04
## 2231 2.43e-04 -1.04e-04 -9.41e-05 -7.17e-04 2.34e-04 3.10e-04 -1.64e-05
## 2232 -2.30e-02 1.79e-03 4.94e-03 -1.54e-02 2.68e-02 2.51e-02 4.46e-03
## 2233 8.12e-04 7.76e-04 -1.91e-03 -6.49e-04 1.17e-03 1.33e-03 -3.11e-04
## 2234 -7.35e-03 -7.50e-04 -1.07e-03 1.69e-03 2.49e-03 -5.03e-03 -4.52e-03
## 2235 -2.49e-02 1.17e-02 -9.52e-03 -1.08e-02 4.17e-02 2.76e-02 3.19e-05
## 2236 3.06e-03 -7.03e-03 -3.32e-03 -2.05e-03 3.65e-03 3.97e-03 -2.06e-03
## 2237 -1.73e-03 -1.08e-03 7.61e-03 -1.05e-02 -5.61e-03 1.00e-02 8.02e-04
## 2238 -1.52e-02 1.65e-02 3.89e-03 -2.67e-02 2.51e-02 3.38e-02 8.98e-03
## 2239 -2.63e-04 2.07e-03 -8.26e-03 1.03e-02 4.37e-03 -9.76e-03 -1.18e-02
## 2240 -5.55e-03 3.24e-03 9.34e-03 1.82e-03 -2.92e-03 -3.28e-03 3.13e-03
## 2241 -2.22e-04 1.43e-03 -2.12e-03 -3.79e-03 1.68e-03 3.62e-03 3.60e-04
## 2242 5.02e-03 -5.94e-03 1.16e-03 -5.49e-03 -4.58e-03 5.74e-03 -1.62e-03
## 2243 8.33e-03 1.49e-02 -1.26e-02 -1.36e-03 -1.81e-03 2.00e-02 -1.97e-03
## 2244 5.96e-03 4.14e-03 3.60e-03 -8.73e-03 1.83e-03 1.43e-02 3.29e-03
## 2245 -4.61e-03 -1.01e-03 3.09e-03 -1.60e-03 1.16e-03 3.30e-03 -1.71e-03
## 2246 -4.29e-03 -2.56e-04 -9.74e-05 6.36e-05 4.26e-04 -9.85e-04 -1.20e-03
## 2247 -5.29e-04 -2.12e-05 -5.17e-04 -7.93e-04 1.86e-04 -6.10e-04 1.35e-04
## 2248 -1.28e-03 2.53e-03 -1.21e-03 -2.92e-03 2.99e-03 4.07e-03 4.66e-04
## 2249 1.26e-02 7.99e-03 -6.47e-03 -7.34e-04 4.88e-03 1.31e-02 1.26e-04
## 2250 -3.87e-04 2.06e-03 7.16e-04 1.53e-03 1.28e-03 -6.39e-05 8.83e-04
## 2251 -1.35e-02 6.59e-03 -1.19e-02 -7.87e-03 2.46e-03 3.74e-03 -1.02e-02
## 2252 -1.19e-03 3.96e-04 -4.03e-03 -3.89e-03 4.45e-04 6.15e-04 -2.21e-03
## 2253 1.25e-03 -3.33e-03 -4.57e-03 3.82e-03 -8.41e-03 2.61e-03 -2.24e-03
## 2254 2.27e-02 -2.62e-02 -1.37e-02 -1.40e-02 2.07e-02 9.64e-03 3.86e-04
## 2255 3.87e-03 9.30e-03 5.06e-04 -1.23e-02 -1.51e-03 3.65e-04 6.51e-03
## 2256 3.83e-03 -7.98e-03 -7.19e-03 -7.97e-03 4.80e-03 -6.89e-03 -1.62e-03
## 2257 -2.45e-04 3.33e-03 6.98e-04 8.31e-03 -7.20e-03 -1.93e-03 -1.90e-03
## 2258 2.99e-03 1.13e-03 9.90e-04 2.51e-03 -5.28e-05 9.03e-04 1.85e-03
## 2259 -1.74e-03 -1.02e-03 1.06e-03 3.01e-03 1.02e-04 -1.45e-03 1.80e-03
## 2260 1.88e-03 -3.14e-03 -3.56e-03 -3.31e-03 -6.70e-04 2.25e-03 -2.85e-03
## 2261 1.59e-03 1.02e-02 3.50e-03 8.40e-03 -1.51e-03 1.06e-02 1.71e-02
## 2262 3.21e-04 5.93e-03 -3.50e-03 -8.94e-03 -6.47e-03 2.47e-03 -3.95e-03
## 2263 -6.50e-04 3.96e-04 -7.43e-04 8.19e-04 2.84e-03 -7.73e-04 -5.55e-03
## 2264 9.94e-03 2.70e-03 -2.60e-03 2.08e-03 3.65e-03 3.12e-03 2.49e-03
## 2265 7.35e-03 -8.30e-03 -4.43e-03 -2.59e-03 7.36e-03 -3.44e-04 1.33e-03
## 2266 -2.42e-03 -5.13e-03 -2.80e-03 -4.44e-03 -6.32e-03 1.10e-03 -6.36e-03
## 2267 -1.61e-02 3.60e-03 7.88e-03 -5.01e-03 -4.28e-02 1.81e-02 -3.00e-03
## 2268 1.24e-02 -1.68e-02 6.53e-03 1.84e-03 1.48e-02 8.33e-03 1.12e-02
## 2269 -5.93e-03 -1.17e-02 1.27e-02 -5.87e-03 1.62e-02 -1.49e-02 7.55e-04
## 2270 -9.20e-03 1.91e-02 3.26e-02 3.29e-03 1.93e-02 -1.88e-02 9.46e-03
## 2271 1.27e-03 -1.28e-03 3.23e-03 -5.16e-04 4.61e-03 -9.53e-04 2.35e-03
## 2272 -2.58e-03 5.46e-04 -2.95e-03 -1.75e-02 -8.53e-03 1.47e-02 1.60e-03
## 2273 -5.94e-04 -8.41e-04 8.44e-04 2.25e-04 1.56e-03 -5.97e-04 1.13e-03
## 2274 3.52e-04 -2.84e-05 4.72e-04 -9.94e-04 1.11e-03 -2.62e-05 6.07e-04
## 2275 -3.36e-03 2.83e-03 -9.75e-04 -1.14e-03 -6.68e-03 4.17e-03 -2.82e-03
## 2276 -2.16e-03 -8.75e-03 8.74e-03 1.43e-02 8.62e-03 5.12e-04 1.15e-02
## 2277 3.86e-03 6.65e-03 1.02e-02 3.00e-02 1.05e-02 6.37e-03 -6.13e-03
## 2278 -3.14e-02 -1.07e-02 6.73e-03 2.02e-02 2.25e-02 -1.15e-02 -9.59e-03
## 2279 -5.21e-03 3.64e-03 3.39e-02 -1.44e-02 -6.48e-03 2.04e-02 2.35e-03
## 2280 3.54e-03 1.43e-03 1.56e-03 -8.19e-04 3.66e-03 2.47e-03 4.78e-03
## 2281 8.80e-03 -1.07e-02 -4.68e-03 -1.71e-03 6.89e-03 -6.74e-03 3.42e-03
## 2282 2.79e-03 -2.72e-02 1.27e-02 -2.22e-02 8.23e-03 1.06e-02 1.19e-02

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## 2283  8.62e-03 -3.81e-03 -1.27e-02  2.00e-02 -8.95e-03 -3.47e-02 -1.13e-02
## 2284  6.73e-03  6.91e-03  9.05e-03  3.38e-02 -2.29e-02 -4.17e-02 -3.16e-03
## 2285 -9.39e-03  1.01e-02  1.05e-02 -4.68e-03 -1.63e-02 -9.67e-03 -1.78e-03
## 2286 -3.76e-02  4.49e-02  6.45e-02  9.93e-03 -9.97e-02 -1.64e-03  2.24e-02
## 2287  8.19e-03  4.57e-02 -5.52e-02  2.09e-03  8.27e-02  2.90e-02 -8.79e-03
## 2288 -3.11e-03 -6.86e-03  2.56e-03 -3.84e-03  5.20e-04  1.04e-02  2.94e-03
## 2289  4.24e-05  3.96e-04  1.44e-03  5.60e-04 -6.99e-04 -1.89e-03 -2.51e-04
## 2290 -1.00e-02 -1.70e-02 -2.36e-02 -2.75e-03  3.01e-02  7.67e-03 -1.35e-03
## 2291  1.40e-03  9.52e-04 -9.71e-04 -8.54e-04 -6.14e-04 -1.74e-04 -6.73e-05
## 2292  9.76e-05 -4.87e-04 -1.90e-04 -6.69e-04 -1.29e-04  9.51e-05  2.91e-05
## 2293  1.34e-04 -2.68e-04  1.62e-04  1.19e-04 -8.18e-04 -1.02e-04  6.44e-05
## 2294 -4.16e-03 -2.38e-03  5.11e-03  5.80e-03 -6.02e-03  5.01e-03  2.18e-03
## 2295 -1.92e-02 -1.57e-02 -8.27e-04 -3.78e-04  7.59e-03  8.45e-03 -1.19e-03
## 2296  3.02e-02 -1.65e-02 -5.02e-02 -2.81e-02  4.05e-02  4.28e-02 -9.21e-04
## 2297  2.77e-02 -1.27e-02  3.68e-03 -5.14e-02 -5.49e-02 -5.68e-03 -9.21e-03
## 2298  3.30e-03 -9.15e-03 -2.35e-03 -9.10e-04  1.88e-03  9.37e-03  1.57e-03
## 2299  2.06e-03 -1.37e-02  1.96e-02 -5.30e-03  2.02e-03  2.18e-02  4.46e-03
## 2300 -7.60e-03  5.57e-03  5.80e-03 -3.50e-03  4.74e-04 -1.06e-02 -6.20e-04
## 2301 -5.47e-03  4.96e-03 -7.45e-03  5.40e-03  1.90e-02  3.65e-03 -3.24e-03
## 2302  6.76e-05 -2.85e-04 -1.20e-04  1.16e-04  2.21e-04 -3.45e-04 -9.50e-05
## 2303  2.64e-02  9.50e-04 -4.17e-02 -1.11e-02  9.63e-03  3.81e-02  5.37e-03
## 2304 -7.80e-04  3.52e-03  4.37e-03  2.54e-04  2.85e-04 -1.15e-03 -2.53e-04
## 2305 -1.09e-02  1.87e-02  2.96e-03 -4.78e-03  1.15e-02  1.86e-02  9.55e-03
## 2306  3.35e-02  3.80e-02 -6.25e-02  1.27e-02  3.51e-02  1.65e-02 -1.10e-02
## 2307  1.11e-02 -2.88e-02 -3.04e-02 -3.41e-02  8.07e-03  1.32e-02  2.93e-03
## 2308  3.31e-03 -6.51e-04  1.86e-03 -5.22e-03  4.09e-03  5.16e-03  1.47e-03
## 2309  7.51e-03 -1.66e-03 -1.49e-02 -1.63e-03  1.96e-02  1.09e-02 -1.23e-03
## 2310 -1.11e-03  1.66e-03  6.75e-04  2.67e-03 -4.31e-03 -4.36e-03 -4.21e-04
## 2311  1.10e-03 -2.34e-03 -1.27e-03 -6.43e-03  2.02e-02  2.64e-02  1.03e-02
## 2312 -1.30e-02  2.24e-03 -1.10e-02 -7.28e-04  1.02e-02  1.93e-02 -1.57e-03
## 2313  6.53e-03  2.69e-03 -7.53e-03 -6.12e-03  3.40e-03  5.45e-03 -2.15e-02
## 2314 -1.28e-02 -1.04e-03  1.41e-02  9.43e-03 -9.86e-03 -4.88e-03  8.29e-02
## 2315 -4.22e-02 -1.18e-02  5.03e-02  4.08e-02 -3.20e-02 -1.88e-02  2.24e-01
## 2316  1.70e-02  4.90e-03 -1.58e-02 -1.18e-02  1.03e-02  1.06e-02 -7.99e-02
## 2317 -1.20e-02 -4.72e-03  1.43e-02  1.82e-02 -5.49e-03 -1.10e-02 -4.13e-03
## 2318 -3.93e-02 -9.13e-04  8.57e-02 -7.86e-02 -8.57e-02 -6.03e-02 -3.88e-02
## 2319 -4.18e-03  1.09e-02 -2.46e-03  1.10e-02 -1.49e-03 -5.76e-03  1.33e-03
## 2320  1.16e-02  1.63e-02 -1.19e-02  8.58e-03  1.07e-02  1.93e-03 -2.84e-03
## 2321  2.89e-02  1.35e-02 -3.53e-02  1.65e-02  1.90e-02  1.50e-02  6.13e-03
## 2322  9.01e-03  2.48e-03 -6.68e-03  1.67e-02 -2.15e-03  4.53e-03  4.34e-03
## 2323 -5.13e-02  3.92e-02  5.51e-02 -1.98e-02  2.73e-02 -1.62e-02  1.23e-02
## 2324  1.15e-02 -3.30e-02  1.35e-03 -6.81e-02 -2.56e-02  1.10e-03 -4.54e-03
## 2325  2.79e-03 -3.61e-03 -2.71e-03 -7.82e-03  6.36e-03 -4.13e-03 -5.79e-03
## 2326  1.57e-02  8.54e-03 -1.69e-02  4.37e-02  9.55e-03 -7.69e-03  7.15e-03
## 2327 -1.17e-02  2.92e-03 -1.24e-03 -3.20e-03  1.62e-02 -2.92e-03 -7.38e-03
## 2328 -3.08e-02  7.38e-02  9.28e-03  9.32e-03 -6.53e-03 -1.26e-02 -1.32e-04
## 2329 -2.68e-03 -1.16e-02  3.15e-04  4.62e-02 -1.85e-02 -2.78e-02 -5.11e-05
## 2330 -1.28e-02 -1.67e-03  2.35e-02 -1.64e-02 -3.18e-02 -1.54e-02 -1.38e-02
## 2331 -1.14e-02  2.36e-02 -3.08e-03  3.48e-02  3.17e-03 -7.39e-03  5.72e-03
## 2332  3.27e-03 -1.47e-03 -5.59e-03 -1.80e-02  2.04e-03 -1.08e-03 -3.78e-03
## 2333  1.07e-02 -7.65e-03 -1.85e-02 -2.76e-02  1.96e-02  1.06e-02 -2.99e-03
## 2334  1.49e-03 -4.33e-03  4.45e-04  7.08e-03 -2.03e-03 -1.53e-03 -1.97e-03
## 2335  4.71e-05  2.63e-02  4.98e-03  4.98e-02 -1.02e-03  5.97e-04  4.85e-03
## 2336  1.98e-02  1.27e-02 -2.29e-02  1.53e-02  1.02e-03  1.20e-02  5.40e-03

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## 2337 -9.69e-03 -3.38e-02 3.16e-02 9.09e-03 -4.51e-02 -2.91e-02 -9.61e-03
## 2338 -1.32e-02 -3.79e-02 -8.94e-03 1.00e-02 3.93e-02 6.73e-04 9.63e-04
## 2339 4.74e-03 9.25e-03 -5.10e-03 -6.87e-03 3.47e-03 3.23e-04 -4.34e-03
## 2340 3.54e-03 1.09e-02 2.55e-03 4.78e-02 -8.44e-03 6.12e-03 1.49e-02
## 2341 -5.16e-02 -2.44e-02 2.63e-02 5.22e-02 8.07e-03 -2.48e-02 -2.23e-03
## 2342 -6.64e-03 -4.41e-03 8.07e-03 6.53e-03 -4.61e-03 -5.63e-03 3.31e-04
## 2343 -2.59e-03 1.55e-02 -1.03e-02 1.92e-02 -2.97e-03 -1.39e-02 3.69e-04
## 2344 2.11e-02 5.33e-03 -2.81e-02 -6.60e-02 3.28e-02 -1.94e-02 -2.53e-02
## 2345 -2.85e-02 -4.27e-02 2.71e-02 -1.67e-02 1.29e-02 -4.09e-03 -8.77e-03
## 2346 -2.62e-02 -4.48e-02 1.60e-02 2.72e-02 1.22e-02 3.25e-03 7.59e-03
## 2347 1.15e-01 4.84e-02 -1.66e-01 6.58e-02 -2.74e-02 1.05e-02 2.24e-03
## 2348 -1.51e-03 -6.43e-04 -7.60e-04 1.38e-03 1.98e-03 -1.55e-05 3.94e-04
## 2349 2.28e-03 7.25e-04 -1.13e-03 -3.93e-04 -8.95e-04 9.84e-04 -4.65e-04
## 2350 1.79e-02 4.12e-02 -6.14e-03 2.97e-02 -6.72e-03 -8.26e-03 -7.52e-04
## 2351 -2.24e-02 -2.59e-02 -8.37e-03 1.99e-02 -2.73e-02 -5.30e-02 -1.72e-02
## 2352 -1.73e-02 -8.76e-03 2.22e-02 2.13e-02 -2.19e-02 -1.53e-02 7.92e-04
## 2353 3.31e-02 5.26e-02 8.00e-03 6.60e-02 -4.97e-02 -2.93e-02 3.81e-02
## 2354 -1.83e-03 1.83e-02 -5.72e-03 1.76e-02 2.40e-02 2.54e-02 1.17e-02
## 2355 -5.21e-02 5.22e-02 8.12e-02 7.88e-02 -5.14e-02 -5.14e-02 2.06e-02
## 2356 -9.42e-03 -8.05e-03 3.06e-03 1.19e-02 3.13e-03 -6.35e-03 -1.11e-03
## 2357 -3.53e-02 6.67e-03 3.08e-02 -4.58e-02 6.69e-03 -4.70e-03 -5.22e-03
## 2358 -1.33e-02 -1.46e-02 6.04e-03 -1.26e-02 -8.12e-03 -1.33e-02 -5.17e-03
## 2359 2.29e-03 -1.48e-04 3.87e-04 4.04e-03 -9.91e-04 -4.72e-03 1.72e-03
## 2360 9.89e-03 2.75e-02 -2.75e-02 -2.86e-04 -3.75e-04 -2.67e-03 -5.99e-04
## 2361 5.98e-03 -3.60e-03 -6.83e-03 -9.32e-04 1.89e-03 8.09e-04 2.52e-03
## 2362 1.47e-03 -2.51e-06 1.69e-03 1.09e-03 -3.44e-03 1.53e-04 1.18e-03
## 2363 7.74e-03 -1.63e-02 -2.55e-03 1.01e-02 1.51e-02 1.39e-02 9.64e-03
## 2364 8.16e-03 -4.01e-03 1.14e-03 -1.04e-03 -4.32e-03 -4.38e-03 9.52e-04
## 2365 3.40e-02 -1.53e-02 -2.47e-02 -2.68e-02 2.35e-03 2.17e-02 9.97e-03
## 2366 -3.51e-03 5.03e-03 -3.26e-03 5.68e-03 3.93e-03 2.61e-03 -8.11e-04
## 2367 -5.68e-03 -7.52e-03 -1.40e-02 -1.93e-02 1.48e-02 1.45e-02 -1.03e-02
## 2368 8.26e-03 8.62e-03 -3.15e-02 1.46e-02 1.52e-02 -1.48e-02 -4.18e-02
## 2369 1.13e-03 -2.14e-03 5.33e-05 1.05e-03 1.21e-03 -1.72e-03 -1.16e-04
## 2370 -9.48e-03 1.63e-03 -1.24e-03 2.92e-03 1.52e-02 9.24e-03 -3.69e-03
## 2371 9.35e-04 -2.45e-03 1.21e-04 -1.27e-04 3.56e-05 -7.65e-04 2.29e-04
## 2372 1.37e-03 -7.16e-04 5.85e-04 1.47e-03 2.63e-04 9.43e-04 1.89e-03
## 2373 1.50e-03 1.96e-03 -6.74e-03 4.46e-03 -2.70e-03 -7.15e-03 1.17e-03
## 2374 1.12e-03 2.25e-03 -2.74e-03 1.50e-03 3.21e-03 -9.10e-04 5.34e-03
## 2375 1.65e-03 -3.39e-03 -9.81e-04 -4.66e-04 4.74e-04 -3.41e-05 4.59e-04
## 2376 -1.01e-02 7.82e-03 -3.99e-03 -4.79e-03 1.01e-02 8.86e-03 -1.30e-03
## 2377 -1.32e-03 -3.99e-04 2.29e-03 3.92e-03 -3.86e-03 -2.73e-03 1.20e-03
## 2378 -2.78e-03 3.85e-03 -4.64e-03 -3.05e-03 3.51e-03 3.25e-03 -1.99e-03
## 2379 -3.69e-03 -1.99e-03 4.17e-03 2.47e-03 -3.67e-04 -1.72e-03 2.39e-04
## 2380 8.95e-04 -7.81e-04 8.61e-04 -3.90e-04 -1.37e-03 3.72e-04 -7.91e-03
## 2381 3.86e-03 1.13e-03 1.02e-04 6.33e-04 -5.98e-03 -4.68e-03 3.37e-04
## 2382 3.67e-04 4.91e-03 -4.09e-03 9.22e-04 4.75e-03 2.49e-03 -2.85e-03
## 2383 2.09e-02 -3.41e-02 7.04e-03 5.02e-03 -1.22e-02 2.72e-02 -7.33e-02
## 2384 -1.53e-04 2.02e-04 3.18e-04 9.06e-05 -1.19e-04 2.91e-05 6.58e-05
## 2385 -1.87e-02 -2.08e-03 1.20e-02 -6.73e-04 4.36e-04 1.42e-02 -9.34e-03
## 2386 9.53e-03 -2.26e-04 -2.32e-02 -3.64e-02 -2.24e-02 -1.47e-02 -1.48e-02
## 2387 -7.64e-03 1.44e-02 1.37e-02 -4.17e-03 -8.88e-03 -2.64e-03 1.77e-03
## 2388 -6.78e-03 -1.61e-03 2.31e-03 -5.00e-03 1.63e-03 1.05e-02 2.87e-03
## 2389 1.07e-04 3.08e-04 -4.98e-06 -3.08e-04 1.94e-05 2.26e-04 1.15e-04
## 2390 3.14e-03 1.98e-03 9.15e-03 2.87e-03 -3.24e-03 -6.14e-03 -2.06e-03

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## 2391  8.51e-03 -7.70e-03 -2.05e-02 -2.33e-02  1.76e-02  2.32e-02  1.32e-03
## 2392 -3.71e-03 -7.47e-03  2.11e-03 -2.97e-03  1.10e-03  1.55e-02 -3.13e-02
## 2393 -2.77e-04 -9.45e-04  1.47e-04  5.96e-05 -5.12e-05 -1.71e-04 -4.06e-04
## 2394 -4.62e-03 -3.34e-02 -1.78e-03  1.78e-02  5.36e-03 -2.14e-03 -3.60e-03
## 2395  3.61e-02  8.60e-02 -3.93e-02 -2.43e-02  1.38e-02  8.72e-02  1.78e-02
## 2396 -7.40e-03  1.28e-02  1.91e-03 -6.77e-03  2.00e-02  1.01e-02  3.20e-03
## 2397 -9.70e-04  6.29e-03  8.35e-03 -1.34e-02 -1.34e-02  2.98e-02  1.28e-02
## 2398  4.58e-04  1.05e-03 -1.71e-02 -5.63e-03  2.17e-02  8.78e-03 -2.29e-03
## 2399 -1.86e-03 -6.26e-03  3.82e-03  2.63e-03 -2.00e-02 -7.95e-03  1.94e-03
## 2400 -1.74e-04 -1.89e-03  2.80e-03  1.11e-03 -2.54e-03  9.25e-03  1.09e-03
## 2401 -4.30e-05 -6.98e-05  3.21e-05 -1.41e-04  9.06e-05 -3.11e-04 -2.47e-05
## 2402  7.59e-05  5.71e-05  3.60e-03 -6.61e-04 -3.51e-03 -2.06e-03 -2.74e-04
## 2403 -5.75e-04  2.66e-02 -6.78e-03 -1.38e-02  7.68e-03 -3.67e-03  8.80e-03
## 2404  1.53e-03 -1.30e-02  1.03e-02  6.95e-03 -3.35e-02  1.43e-02  6.21e-03
## 2405  3.56e-03 -1.98e-04 -1.75e-02  1.73e-03  1.40e-02  3.63e-03  6.05e-04
## 2406 -9.38e-04 -9.55e-05  1.09e-03  2.44e-04 -7.26e-04  5.40e-04  3.73e-04
## 2407  9.28e-03 -9.35e-03  9.92e-03 -4.74e-03 -1.52e-02  4.90e-03  9.98e-04
## 2408  8.78e-03  2.03e-02 -3.16e-02 -3.57e-03  2.80e-02  1.98e-02 -1.51e-02
## 2409  2.21e-03 -8.14e-03  9.07e-03  7.48e-03 -1.26e-02  2.68e-02  9.93e-03
## 2410 -1.39e-04  2.48e-03 -3.37e-04  1.69e-03  5.34e-03 -2.69e-03 -1.38e-03
## 2411  2.31e-02 -2.61e-03 -5.70e-03 -9.72e-03  2.71e-02  5.74e-03 -1.31e-03
## 2412  1.37e-02  2.97e-04 -4.22e-02  1.78e-07  4.23e-02  2.87e-02 -2.73e-03
## 2413 -4.72e-03  1.29e-02 -3.02e-04 -2.73e-03  5.16e-04 -1.48e-02 -1.35e-03
## 2414  6.71e-04  3.58e-03  2.58e-03  9.26e-03 -6.98e-03  8.35e-03  3.94e-03
## 2415  3.35e-02 -3.30e-02 -1.66e-02  4.37e-02  2.76e-03 -3.28e-02 -1.72e-02
## 2416 -6.51e-03 -1.10e-02  1.91e-03 -8.95e-03  1.36e-02 -8.86e-04 -2.00e-03
## 2417 -1.17e-02 -6.61e-03 -2.43e-03  1.60e-02 -1.01e-02  6.96e-03  5.70e-03
## 2418 -2.01e-02 -5.89e-02 -8.35e-03  1.30e-02 -2.42e-03 -2.70e-02  1.02e-02
## 2419 -9.81e-03  8.67e-03  3.31e-02  7.12e-03 -1.97e-02 -3.01e-02 -5.87e-03
## 2420 -2.36e-03  3.15e-02 -2.36e-02 -4.38e-02  1.31e-02  3.64e-02  8.90e-03
## 2421 -7.62e-04 -7.00e-05  3.88e-04 -3.55e-03 -5.14e-03  6.08e-03 -6.78e-04
## 2422 -1.29e-02  4.59e-02  1.75e-02  9.95e-03 -4.60e-03  3.82e-03  6.33e-03
## 2423  1.78e-03  2.61e-02 -9.48e-03 -1.84e-02 -2.19e-02  1.35e-02  9.12e-03
## 2424  3.75e-03 -3.89e-03 -9.66e-03 -1.54e-02 -1.09e-02  2.95e-02  6.15e-03
## 2425 -3.32e-03  3.52e-04  1.10e-02  2.92e-03 -1.07e-02 -6.14e-03 -4.13e-04
## 2426 -3.57e-03 -5.23e-02 -1.06e-02  2.74e-02  2.20e-02  3.84e-02  1.58e-03
## 2427  8.33e-03 -6.06e-03  1.70e-02 -4.73e-03 -3.89e-02  4.60e-02  1.75e-02
## 2428 -1.28e-02 -2.41e-03 -1.52e-02 -3.67e-03  1.99e-02  1.48e-02  5.97e-03
## 2429  2.19e-03 -5.19e-03 -2.00e-03 -9.25e-03  3.82e-03  1.40e-02  3.47e-03
## 2430  1.29e-02  7.26e-03 -6.79e-03 -1.12e-02  1.64e-02  1.80e-02  2.73e-03
## 2431 -2.69e-03 -3.31e-03  4.97e-04  2.32e-03  3.25e-04  7.04e-03  2.43e-03
## 2432 -2.90e-03 -1.96e-03  3.58e-03  6.69e-03 -6.12e-03  1.53e-02  6.78e-03
## 2433  7.45e-03 -1.17e-02 -5.12e-04 -1.22e-03 -7.82e-05  2.23e-02 -1.15e-02
## 2434 -3.76e-05 -1.14e-02 -8.57e-03 -1.37e-02  2.69e-02  2.99e-02  9.66e-03
## 2435 -8.40e-04 -7.53e-03  7.58e-03  8.55e-03 -6.67e-03  8.82e-03  4.88e-03
## 2436  2.33e-02  3.43e-02  7.49e-03  1.77e-02  7.25e-03 -8.02e-02 -4.40e-02
## 2437  9.47e-03 -1.77e-02  5.06e-04 -7.99e-03 -7.24e-03  4.54e-03 -1.34e-03
## 2438  1.94e-02  1.72e-02 -8.21e-03 -2.12e-02  1.72e-03  1.74e-02  3.51e-03
## 2439  5.77e-03  2.73e-02 -2.08e-02 -1.02e-02  4.85e-02 -1.92e-02 -1.16e-02
## 2440  1.02e-02  7.32e-02 -5.82e-02 -1.71e-02  4.12e-02  5.50e-02  1.46e-02
## 2441 -8.59e-03  2.08e-03  1.15e-02  1.37e-02 -9.80e-03 -1.75e-02 -1.89e-03
## 2442  4.38e-04  3.63e-02  5.03e-03  4.90e-02 -2.95e-02 -4.31e-02 -2.35e-03
## 2443 -9.78e-03 -2.27e-02 -1.17e-02 -3.31e-02  1.55e-02 -9.99e-03 -1.43e-02
## 2444 -4.93e-03  8.54e-02 -1.17e-01  5.03e-03  1.31e-01  1.36e-01 -3.21e-02

```

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## 2445 3.09e-04 -3.70e-04 2.30e-04 -5.50e-04 -1.49e-04 -1.09e-03 -3.67e-04
## 2446 -1.73e-02 1.65e-03 1.64e-02 3.73e-04 -7.33e-03 3.95e-02 1.02e-02
## 2447 -1.99e-02 1.41e-02 6.09e-03 -4.24e-03 -1.60e-02 5.73e-03 7.53e-03
## 2448 5.24e-03 4.60e-03 -2.38e-03 -1.07e-03 -7.27e-03 -1.08e-02 -3.50e-03
## 2449 5.21e-03 -2.06e-03 -1.86e-02 -1.88e-02 8.58e-03 1.51e-02 2.34e-04
## 2450 1.29e-02 -1.41e-02 -2.20e-02 -9.47e-04 -6.51e-04 9.81e-03 -8.61e-04
## 2451 -2.30e-02 1.52e-02 2.72e-02 1.10e-02 1.19e-02 -9.10e-03 -1.04e-03
## 2452 1.86e-03 -3.88e-03 -1.44e-03 3.62e-04 3.08e-03 -8.23e-04 -4.01e-05
## 2453 1.50e-02 5.67e-03 -2.72e-02 6.32e-03 -9.55e-04 3.03e-02 9.78e-03
## 2454 -3.64e-03 -1.53e-04 2.26e-03 2.35e-03 -2.86e-03 -7.73e-04 2.04e-05
## 2455 7.24e-04 7.50e-03 -1.62e-02 2.34e-02 9.89e-03 -1.32e-02 2.67e-03
## 2456 4.42e-06 -2.54e-06 -9.51e-06 3.53e-06 -9.77e-06 -8.48e-08 -1.19e-05
## 2457 -3.13e-03 -4.56e-03 -3.13e-03 -2.26e-03 -3.65e-03 -2.08e-03 -7.02e-03
## 2458 2.36e-03 7.05e-05 3.38e-03 5.34e-03 -6.66e-04 4.87e-03 1.07e-03
## 2459 1.52e-02 7.34e-04 -8.94e-03 -1.64e-02 1.62e-03 9.73e-03 1.95e-04
## 2460 4.36e-04 -2.38e-06 -1.73e-04 -3.80e-04 2.53e-03 4.56e-04 8.05e-04
## 2461 3.88e-03 2.94e-03 1.93e-02 1.72e-02 -8.80e-03 2.80e-03 7.78e-03
## 2462 -3.70e-04 1.28e-03 -1.03e-03 5.77e-03 2.00e-03 -1.26e-03 2.21e-03
## 2463 -9.86e-04 2.33e-04 1.32e-03 5.05e-04 -4.37e-04 -6.14e-04 1.11e-05
## 2464 -2.80e-03 -8.26e-03 3.80e-03 -7.47e-02 2.32e-02 3.81e-02 1.33e-02
## 2465 2.73e-02 2.42e-03 -1.00e-02 5.12e-04 1.06e-02 -4.65e-03 -1.29e-02
## 2466 8.72e-04 -1.35e-03 -3.81e-03 2.31e-03 9.00e-04 1.37e-03 -3.47e-03
## 2467 8.81e-05 5.36e-04 3.53e-03 2.79e-03 -2.52e-04 9.82e-04 -2.25e-03
## 2468 4.70e-03 2.36e-03 5.38e-03 1.40e-02 2.96e-03 1.44e-03 6.28e-03
## 2469 2.41e-04 1.40e-04 3.66e-04 -6.58e-04 2.05e-04 4.78e-04 1.18e-03
## 2470 8.54e-03 1.97e-03 -6.60e-03 -6.33e-03 9.13e-03 -2.18e-03 1.83e-03
## 2471 5.04e-03 1.56e-04 -1.16e-04 1.70e-03 8.85e-03 -2.28e-03 3.44e-03
## 2472 1.66e-03 1.66e-03 1.20e-03 -1.58e-03 3.47e-03 -4.06e-03 -7.62e-04
## 2473 8.02e-04 1.66e-03 4.97e-03 2.11e-03 -4.39e-04 -7.04e-04 2.93e-03
## 2474 3.03e-03 4.84e-04 -9.18e-04 -3.55e-03 3.40e-03 1.58e-03 2.37e-03
## 2475 -2.03e-03 1.75e-03 1.72e-03 2.05e-03 2.06e-03 -1.07e-03 -7.93e-03
## 2476 -6.76e-04 2.31e-03 1.41e-02 -8.29e-03 -1.97e-03 4.35e-03 1.35e-02
## 2477 2.23e-02 -9.70e-04 -1.02e-02 -1.88e-02 8.12e-03 1.03e-02 -8.52e-04
## 2478 6.80e-04 -2.18e-03 -8.49e-03 -7.34e-03 6.00e-03 2.98e-03 -2.54e-03
## 2479 -4.12e-03 -3.28e-05 3.54e-03 5.84e-03 8.64e-04 -2.12e-03 -1.72e-03
## 2480 1.40e-02 1.64e-03 -5.87e-03 -1.55e-02 1.94e-02 4.81e-03 -5.66e-03
## 2481 1.50e-02 5.46e-03 9.32e-04 -1.22e-03 -2.06e-02 -7.41e-03 2.91e-03
## 2482 5.24e-03 -1.32e-03 2.07e-04 4.79e-03 4.32e-03 3.93e-03 1.08e-02
## 2483 6.83e-05 -1.25e-05 -1.90e-04 4.06e-04 -4.49e-04 -3.67e-06 -1.52e-04
## 2484 4.17e-03 1.47e-03 -1.71e-03 -5.14e-03 -1.34e-03 -1.27e-03 -1.42e-04
## 2485 2.41e-02 2.96e-03 -6.86e-03 -2.28e-02 1.54e-02 7.87e-03 -2.37e-04
## 2486 4.51e-03 6.83e-04 -3.43e-05 -7.71e-03 1.58e-03 1.76e-03 1.73e-03
## 2487 3.72e-03 7.57e-04 2.49e-03 -7.07e-03 3.24e-03 -1.20e-04 -2.22e-03
## 2488 -4.29e-04 -9.47e-05 -1.94e-04 -1.11e-04 1.11e-04 -1.06e-04 -3.05e-04
## 2489 5.06e-03 -3.93e-04 9.65e-04 -1.25e-02 1.71e-02 3.86e-03 7.92e-03
## 2490 3.20e-04 -4.16e-04 -4.96e-04 -1.73e-03 -6.52e-05 9.31e-04 2.51e-04
## 2491 5.86e-03 -1.66e-03 -1.29e-02 -7.11e-03 3.85e-04 2.78e-03 -7.49e-03
## 2492 2.03e-02 3.83e-05 -1.26e-02 -1.05e-02 -1.23e-02 -4.38e-02 -1.76e-02
## 2493 2.28e-03 2.38e-03 1.29e-02 3.70e-05 3.72e-03 -2.58e-03 7.76e-03
## 2494 4.88e-04 7.91e-04 -7.63e-06 -3.87e-03 6.90e-03 -2.15e-03 1.09e-03
## 2495 4.32e-03 4.13e-05 7.72e-03 4.53e-03 4.31e-03 -3.53e-04 4.22e-03
## 2496 2.70e-03 -4.70e-03 -1.19e-02 -9.49e-03 8.74e-03 5.88e-03 -6.27e-03
## 2497 1.11e-03 5.41e-04 4.20e-04 1.33e-03 -2.20e-04 -8.93e-04 7.70e-04
## 2498 -1.79e-03 4.88e-03 9.77e-03 1.40e-02 -3.42e-03 -1.17e-02 -2.83e-03

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## 2499  2.33e-03 -4.40e-04  4.04e-03 -1.00e-02  3.22e-03  2.67e-03  3.05e-03
## 2500 -7.49e-03  4.45e-03  3.55e-03  9.80e-03  5.26e-03  1.36e-03  1.47e-02
## 2501  2.43e-02 -7.80e-03  5.73e-03  3.09e-02  1.25e-03 -1.91e-02 -5.30e-02
## 2502  1.75e-04 -1.02e-05 -1.41e-04 -2.50e-04  1.31e-04  1.08e-04  8.94e-05
## 2503  4.26e-03  3.46e-03  1.03e-03  1.30e-02  9.45e-03 -1.20e-04 -2.31e-02
## 2504  8.12e-03  1.20e-04 -3.73e-03 -8.67e-03  4.30e-03  4.46e-03  2.46e-03
## 2505  7.43e-03 -4.01e-03 -9.31e-03 -9.48e-03 -5.52e-03  5.62e-03 -4.93e-03
## 2506  1.84e-02  4.43e-03 -1.53e-02 -4.77e-03  1.53e-03 -5.78e-03 -1.68e-04
## 2507 -4.18e-06 -2.25e-05 -1.00e-04 -1.99e-04 -3.45e-04  9.13e-05 -1.71e-04
## 2508  7.10e-04 -2.79e-03 -1.07e-03 -1.03e-02 -6.70e-03  4.68e-03 -6.59e-03
## 2509  1.11e-02  1.66e-03 -2.12e-03 -5.63e-03  5.91e-03  3.16e-03  4.05e-03
## 2510 -1.08e-04 -1.42e-04  3.11e-04 -1.80e-04 -2.37e-04  4.12e-04  1.86e-03
## 2511  3.05e-04  6.88e-04  3.47e-03  5.07e-04  4.14e-03  1.46e-03  4.51e-03
## 2512 -1.59e-03 -2.06e-04  1.17e-03  1.73e-03 -8.77e-03  4.83e-04  7.82e-03
## 2513 -5.09e-03 -6.90e-04  6.71e-05  1.67e-03 -1.51e-03 -2.96e-05 -1.69e-03
## 2514 -6.10e-04 -2.85e-04  1.89e-03 -2.77e-03 -4.20e-04 -3.36e-04 -1.01e-03
## 2515  3.85e-03  6.84e-04  5.02e-03  7.17e-03  9.81e-03  1.06e-03  3.64e-03
## 2516  6.94e-03  1.55e-03 -1.68e-04  3.59e-03  8.97e-03  8.74e-04 -5.36e-03
## 2517 -2.88e-03 -5.51e-03  6.97e-03  1.24e-03 -2.73e-04  7.53e-03 -3.21e-03
## 2518  5.24e-04 -7.49e-05  4.34e-04  8.28e-04 -1.25e-04  7.36e-04 -1.07e-03
## 2519 -3.10e-03 -1.09e-03 -2.72e-03 -7.71e-03  1.96e-03 -1.89e-03 -2.16e-03
## 2520 -6.61e-03 -2.76e-03 -5.35e-03 -7.18e-03  2.42e-03  1.95e-03 -3.41e-03
## 2521 -9.53e-04  1.88e-03 -2.34e-03  7.50e-03  2.10e-03 -1.64e-03  3.02e-03
## 2522  1.61e-02  4.65e-03 -4.63e-04  6.97e-03  3.34e-03  9.30e-04  7.89e-03
## 2523  1.07e-02  4.99e-03 -1.81e-02  2.20e-02  1.56e-02 -1.93e-03  3.81e-03
## 2524  4.07e-03  1.75e-03  1.50e-03 -8.95e-04  4.78e-03 -1.07e-03  3.18e-03
## 2525  2.34e-02 -8.85e-03 -3.82e-02 -1.59e-02  2.59e-02 -1.55e-03 -2.34e-03
## 2526  1.65e-02 -3.74e-03 -2.62e-02 -4.93e-02  2.52e-02  3.42e-02  2.04e-02
## 2527  1.75e-03  5.95e-04  3.16e-03  1.59e-04  1.58e-03  1.44e-03  2.38e-03
## 2528 -5.95e-04 -1.90e-03  2.86e-03  1.54e-04 -6.17e-03  7.45e-03  4.62e-05
## 2529  6.78e-03  2.32e-03  1.51e-03  8.97e-03  2.13e-03  1.35e-04  2.17e-03
## 2530  1.90e-03  7.11e-04  2.68e-03  2.22e-03 -7.03e-04  2.29e-03 -3.88e-03
## 2531 -1.17e-02 -1.67e-03  1.45e-02  1.38e-02  1.35e-02 -1.04e-02 -5.21e-04
## 2532 -4.04e-03  5.45e-03  5.85e-03 -1.49e-03  4.86e-02  1.66e-03  2.06e-02
## 2533 -6.20e-05  6.02e-04 -1.05e-03  1.91e-03  1.69e-04 -1.79e-03 -4.81e-04
## 2534 -6.21e-04 -5.01e-04 -4.25e-03 -5.73e-03  2.52e-03 -1.79e-03 -3.17e-03
## 2535  6.97e-03 -8.22e-04 -1.87e-03  2.09e-03  1.41e-02  5.71e-03  5.09e-03
## 2536  1.83e-04  4.51e-04  9.24e-04  8.40e-04 -1.83e-03 -2.34e-03 -8.13e-04
## 2537  6.98e-04 -3.60e-06  8.08e-04 -3.69e-04 -1.18e-04  7.18e-04 -8.08e-05
## 2538 -2.59e-02  1.02e-02  3.43e-02 -9.09e-03 -1.17e-02  2.47e-02  1.06e-02
## 2539  6.92e-03 -6.80e-03 -1.02e-02  1.95e-03  4.99e-03 -1.07e-02 -6.90e-03
## 2540  1.05e-02 -3.55e-02 -2.38e-02 -3.93e-03  4.52e-02 -1.19e-02 -8.13e-03
## 2541  3.48e-02  4.69e-03 -2.85e-03 -1.12e-03  2.60e-03 -4.45e-02 -2.76e-02
## 2542  1.50e-02  2.71e-02 -1.14e-02  1.46e-03 -8.45e-03 -5.04e-03 -6.85e-03
## 2543 -1.34e-02 -1.24e-02  6.44e-03  1.32e-02  1.52e-02 -3.06e-02 -7.27e-03
## 2544 -9.41e-03 -1.60e-02  1.26e-02  4.88e-03 -1.14e-03  1.61e-02  8.62e-03
## 2545 -1.99e-02  3.12e-02  1.46e-02 -1.14e-02 -2.31e-02  6.95e-03  1.17e-02
## 2546 -9.32e-03  3.64e-02 -5.55e-02 -3.00e-03  8.19e-03  8.59e-02  3.16e-02
## 2547 -2.34e-03 -8.33e-04  3.15e-03 -1.28e-03 -1.46e-03  3.61e-03  2.42e-03
## 2548 -1.76e-04  6.68e-03  1.85e-03 -3.18e-03 -9.91e-03  1.76e-02  7.42e-03
## 2549  4.04e-02 -3.30e-02 -2.34e-02 -1.85e-02  8.88e-02 -9.52e-02 -6.65e-02
## 2550  3.45e-03 -1.49e-02 -9.84e-03 -6.98e-03 -7.60e-03  2.76e-02  9.35e-03
## 2551  6.60e-05 -7.03e-06 -1.03e-04 -1.04e-04  1.38e-04 -7.88e-05 -7.91e-05
## 2552  3.56e-02 -1.15e-02 -4.39e-02 -2.37e-02  1.47e-02 -3.30e-02 -2.33e-02

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## 2553 3.57e-03 5.22e-03 2.50e-03 -1.48e-03 2.52e-03 -2.09e-03 -3.43e-03
## 2554 -2.09e-02 7.49e-02 1.67e-02 -1.13e-02 2.01e-02 4.98e-02 1.94e-02
## 2555 -7.42e-04 -1.62e-03 1.05e-03 1.01e-03 2.05e-04 -1.88e-04 -1.34e-04
## 2556 -2.22e-04 2.79e-04 5.94e-05 -2.88e-04 2.60e-04 7.80e-05 -2.36e-05
## 2557 -4.76e-02 4.43e-02 4.84e-02 -7.21e-04 -1.16e-02 3.19e-02 2.48e-02
## 2558 2.35e-03 2.34e-03 -4.32e-03 -1.02e-02 2.11e-03 1.01e-02 -8.46e-04
## 2559 -1.79e-02 -5.24e-04 2.39e-02 3.69e-03 1.13e-02 1.61e-02 5.43e-03
## 2560 3.12e-02 -2.70e-02 -2.80e-02 1.38e-02 -1.72e-02 -4.40e-02 -1.68e-02
## 2561 2.14e-03 -2.57e-03 -1.11e-03 6.54e-04 -1.37e-03 -1.99e-03 8.40e-05
## 2562 6.16e-04 -1.92e-03 2.10e-04 1.34e-03 -1.30e-03 -2.49e-03 -7.93e-04
## 2563 -5.40e-02 8.59e-02 6.60e-02 -2.32e-02 -4.78e-02 5.09e-02 4.19e-02
## 2564 -5.80e-02 4.37e-02 7.42e-02 -1.87e-02 -1.21e-02 1.01e-01 5.14e-02
## 2565 -4.31e-02 2.82e-02 2.51e-02 -1.05e-02 3.08e-02 4.64e-02 1.99e-02
## 2566 -1.03e-02 7.90e-03 1.01e-02 8.16e-04 2.90e-03 9.33e-03 5.32e-03
## 2567 -4.78e-02 1.86e-02 6.68e-02 1.09e-03 -2.96e-02 2.46e-02 2.23e-02
## 2568 3.12e-02 -1.79e-02 -3.98e-02 7.74e-04 1.46e-03 -1.65e-02 -1.11e-02
## 2569 -6.98e-03 8.93e-03 2.83e-03 2.73e-03 -1.11e-03 -6.25e-04 1.13e-03
## 2570 1.64e-04 1.87e-03 -4.32e-04 -7.00e-04 -2.72e-04 9.36e-04 -6.17e-05
## 2571 -6.11e-03 1.47e-03 -1.33e-04 1.00e-03 -3.37e-04 3.27e-03 2.01e-03
## 2572 2.23e-03 -5.98e-03 -5.98e-03 -3.49e-03 1.37e-02 -3.87e-03 -6.67e-05
## 2573 -6.44e-02 1.39e-02 6.64e-02 -2.35e-03 1.25e-02 2.19e-02 1.68e-02
## 2574 -2.10e-02 2.18e-02 1.46e-02 -1.58e-03 5.36e-03 5.83e-03 9.92e-04
## 2575 1.01e-04 1.12e-02 6.66e-03 -9.54e-03 2.02e-03 1.07e-02 -2.30e-03
## 2576 1.07e-02 -1.21e-02 -1.04e-02 1.18e-03 -1.77e-03 -1.05e-02 -4.86e-03
## 2577 1.71e-02 -6.80e-03 -1.46e-02 5.55e-03 3.51e-04 -6.66e-03 -3.77e-03
## 2578 2.86e-03 -1.62e-03 -3.31e-04 -4.73e-04 -1.17e-03 -5.85e-04 5.06e-05
## 2579 -8.44e-02 2.06e-02 7.33e-02 -2.42e-02 5.33e-02 5.34e-02 2.73e-02
## 2580 -2.38e-02 8.80e-02 3.39e-02 4.49e-03 -3.62e-02 7.02e-04 -6.36e-04
## 2581 -1.35e-02 2.95e-02 -1.92e-02 -2.59e-02 3.61e-02 9.88e-03 8.95e-04
## 2582 -6.77e-03 5.82e-03 2.32e-03 -1.20e-03 5.61e-03 6.34e-03 2.10e-03
## 2583 -3.23e-03 2.83e-03 8.80e-04 -1.68e-04 2.91e-03 1.40e-03 9.66e-05
## 2584 -7.86e-03 2.17e-02 1.66e-02 8.89e-03 -1.59e-02 8.61e-03 7.87e-03
## 2585 -2.88e-02 1.55e-02 2.19e-02 -4.64e-03 -3.82e-03 1.59e-02 6.54e-03
## 2586 2.82e-04 -6.19e-04 -2.15e-04 5.73e-04 -3.59e-04 -8.99e-04 -5.45e-05
## 2587 -5.36e-02 2.67e-02 6.18e-02 -6.02e-03 -1.82e-02 2.04e-02 2.23e-02
## 2588 -1.68e-02 3.09e-03 1.65e-02 -2.11e-03 5.61e-03 4.26e-03 2.87e-03
## 2589 1.27e-02 -2.38e-02 1.11e-02 2.00e-02 -1.81e-02 -7.03e-03 5.15e-03
## 2590 -2.72e-02 1.05e-01 3.42e-02 -1.33e-02 -2.22e-02 4.47e-02 1.70e-02
## 2591 -2.24e-02 1.86e-02 1.62e-02 -8.09e-03 5.03e-03 7.20e-03 3.22e-03
## 2592 1.07e-02 -1.25e-02 2.46e-03 2.15e-03 4.81e-04 1.33e-02 3.99e-03
## 2593 6.96e-02 -3.41e-02 -2.74e-02 1.55e-02 -1.01e-02 -3.32e-02 -8.65e-03
## 2594 -9.06e-02 2.09e-02 1.49e-01 2.07e-02 -7.19e-02 5.85e-02 5.87e-02
## 2595 2.02e-03 -1.21e-03 -1.33e-03 4.39e-04 4.06e-04 -5.79e-04 9.18e-05
## 2596 -4.97e-02 1.00e-01 1.98e-02 -1.24e-02 4.66e-02 7.87e-02 3.45e-02
## 2597 -3.27e-02 2.43e-02 2.79e-02 -5.80e-03 1.86e-03 3.25e-02 1.54e-02
## 2598 -3.62e-02 1.34e-01 1.27e-02 -5.26e-02 -5.04e-02 1.02e-01 3.77e-02
## 2599 -7.77e-03 1.14e-02 8.31e-03 6.11e-04 -3.61e-03 1.16e-02 4.63e-03
## 2600 -1.75e-01 7.96e-02 1.81e-01 9.16e-02 -6.63e-02 2.39e-02 3.34e-02
## 2601 -1.54e-02 2.47e-02 8.67e-03 3.48e-03 1.10e-02 2.03e-02 2.30e-03
## 2602 1.58e-02 5.79e-02 4.53e-02 -3.25e-02 -3.30e-02 4.46e-02 -5.20e-03
## 2603 2.89e-03 3.72e-03 -1.75e-03 -1.40e-03 6.21e-03 1.93e-02 3.67e-03
## 2604 6.17e-04 -1.66e-03 1.04e-03 1.85e-03 -6.73e-04 1.92e-04 9.37e-04
## 2605 1.41e-02 -2.13e-02 -7.19e-05 1.23e-02 1.03e-02 9.96e-03 9.75e-04
## 2606 8.97e-03 4.23e-02 -1.28e-02 -9.84e-03 -7.50e-03 3.06e-03 -6.73e-03

```



```

## 2607  2.88e-03 -3.65e-03  1.13e-04  8.28e-05 -1.04e-03  2.04e-03  1.08e-03
## 2608  1.00e-03 -9.67e-03 -3.21e-03  4.96e-03  3.00e-03 -1.22e-02 -4.42e-03
## 2609 -1.04e-03 -1.42e-03 -2.58e-04  2.03e-03  4.52e-05 -1.46e-03  5.40e-04
## 2610  2.55e-02  1.80e-02 -7.25e-03  4.19e-02  1.16e-02 -4.75e-03 -6.58e-03
## 2611 -2.10e-02  2.33e-02 -7.60e-03 -1.17e-02  4.66e-02  2.08e-02  8.38e-04
## 2612 -4.34e-04 -1.97e-04  3.63e-04 -2.29e-03 -3.09e-04  6.59e-04 -1.89e-05
## 2613 -4.92e-04  4.79e-03  5.20e-03 -1.10e-02 -4.79e-04  6.31e-03  3.82e-03
## 2614 -4.54e-04  1.71e-04  8.16e-04  1.57e-04 -3.94e-04 -9.00e-05 -1.38e-04
## 2615  2.00e-03 -2.03e-03 -3.45e-04  6.49e-04 -4.12e-03 -7.54e-03 -1.40e-03
## 2616 -1.25e-02  2.14e-02  1.18e-02 -7.19e-03 -4.67e-03  2.48e-03 -2.04e-03
## 2617 -2.17e-02  2.40e-02  2.64e-02 -1.90e-02 -6.45e-03  3.08e-02  1.21e-02
## 2618 -3.86e-02  3.86e-02  5.39e-02  5.64e-04 -2.56e-02  3.79e-02  2.20e-02
## 2619 -3.14e-03  5.47e-03 -1.26e-03  1.31e-03 -3.46e-03 -3.93e-03 -5.39e-03
## 2620  1.03e-03  1.77e-02  9.71e-03 -2.52e-02  3.04e-03  1.04e-02 -4.22e-03
## 2621 -2.77e-03 -1.33e-03  3.31e-03 -2.95e-03 -2.07e-03 -7.07e-05  9.84e-04
## 2622  1.29e-03 -5.88e-03  3.75e-04  9.85e-03  3.59e-03  1.32e-02  6.33e-03
## 2623  5.58e-04 -1.61e-04 -7.18e-04 -4.82e-04  7.14e-04 -1.38e-03 -8.86e-04
## 2624  9.53e-03  1.28e-02 -7.76e-03 -9.27e-03 -9.99e-03 -1.96e-03  1.78e-03
## 2625 -1.29e-03  2.60e-03  3.65e-03 -5.23e-03 -5.93e-03 -1.27e-03  1.47e-03
## 2626 -2.25e-02  7.37e-02  2.07e-03  8.51e-03 -6.31e-02  7.54e-02  1.64e-02
## 2627 -4.19e-02 -1.06e-03  2.77e-02  1.05e-02 -1.09e-02  5.22e-02 -8.21e-03
## 2628 -1.57e-02 -3.84e-04  6.45e-03  6.77e-03  4.83e-03 -5.39e-03  1.46e-03
## 2629 -1.63e-02 -1.12e-02  1.56e-02  1.11e-04 -6.35e-04  1.99e-02 -7.40e-03
## 2630 -4.15e-03  2.26e-04  2.51e-04  2.60e-03  4.29e-03 -9.05e-05  1.09e-04
## 2631 -2.89e-02 -2.38e-02  1.23e-02  1.53e-02  2.46e-02 -6.46e-04 -1.72e-04
## 2632 -2.07e-04 -5.28e-04 -2.75e-04 -5.59e-04  4.11e-04 -1.12e-03  3.38e-04
## 2633 -3.29e-02 -3.41e-02  4.57e-03  1.43e-02  4.53e-02  1.28e-02 -3.81e-03
## 2634  6.11e-04 -3.07e-04  5.12e-04  1.37e-03 -1.93e-04  3.49e-03  6.75e-04
## 2635 -2.69e-03  4.29e-03  5.92e-03  1.22e-02  5.94e-03 -1.05e-02 -1.78e-03
## 2636  8.82e-03  2.86e-02 -2.68e-02  6.79e-03 -2.49e-02  2.89e-02 -1.31e-03
## 2637  1.29e-02  9.59e-03  6.04e-02  3.06e-02 -2.15e-02 -1.81e-02  1.15e-02
## 2638  1.81e-03  3.39e-03 -3.01e-03  1.74e-03  4.19e-03 -2.56e-04 -1.71e-03
## 2639  1.48e-02 -5.32e-03  8.36e-04 -5.76e-03 -2.46e-02 -1.33e-02 -7.50e-03
## 2640 -3.30e-02 -2.01e-03  1.78e-02 -4.16e-03  1.33e-03  4.21e-02 -1.47e-02
## 2641 -3.70e-03  1.45e-04  2.35e-03  4.34e-03  5.00e-03  1.77e-03  7.45e-04
## 2642 -3.20e-02  9.30e-02 -9.97e-03 -1.85e-02  3.17e-02  8.94e-02  2.65e-02
## 2643 -2.71e-02 -1.01e-02  2.57e-02  9.26e-03 -2.77e-02  3.96e-02  2.47e-02
## 2644 -3.34e-03 -8.46e-04  4.43e-03  1.10e-03 -2.01e-03  6.09e-03  2.66e-03
## 2645 -2.13e-03 -2.21e-03 -1.97e-03 -2.66e-03  6.50e-03  7.18e-03  2.59e-03
## 2646 -9.36e-02 -2.55e-01  3.41e-02 -2.13e-02  4.46e-02 -7.88e-02 -4.05e-03
## 2647  9.51e-03  1.87e-02 -1.48e-02 -1.97e-02 -3.54e-03 -1.36e-02 -5.35e-03
## 2648 -1.80e-03 -3.36e-04 -2.22e-03 -5.87e-03 -2.43e-03  6.64e-03  5.04e-03
## 2649 -2.90e-04  3.92e-05 -2.23e-04  1.95e-04  4.11e-05 -1.29e-05  5.49e-05
## 2650 -2.24e-03  2.47e-03  2.44e-03  1.70e-03 -3.35e-03 -6.91e-03 -6.70e-03
## 2651  1.62e-03 -6.36e-04 -1.85e-03 -7.43e-03 -5.13e-03 -2.46e-03 -1.87e-03
## 2652  1.29e-02 -4.80e-03  9.06e-03 -1.57e-02 -1.27e-02  4.32e-02 -3.78e-03
## 2653 -4.06e-03  1.62e-03  2.49e-03 -2.03e-03 -6.45e-04 -1.64e-03 -7.63e-04
## 2654 -4.26e-04  1.35e-03 -6.96e-04  3.05e-04  5.82e-04  1.20e-04 -6.70e-05
## 2655 -3.99e-03 -6.84e-02  7.20e-03 -1.17e-02  4.04e-02  2.27e-03 -8.19e-03
## 2656  3.81e-03  7.36e-03 -1.43e-02  3.12e-03  8.36e-03  6.63e-04 -4.36e-03
## 2657  6.01e-02  2.11e-02 -2.04e-02 -3.16e-03 -4.65e-02  1.83e-03 -1.72e-02
## 2658 -8.52e-04 -8.50e-03  1.18e-02 -1.10e-02 -2.55e-02  6.19e-04  6.12e-03
## 2659  3.57e-02 -8.44e-02 -1.52e-01 -9.37e-02  1.64e-01  1.81e-01  3.07e-03
## 2660 -4.30e-04 -3.82e-04  1.90e-03  3.83e-04 -1.08e-03 -9.29e-04 -2.70e-04

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## 2661  3.67e-03 -2.42e-03 -1.30e-02  3.27e-03 -1.31e-02 -1.22e-02 -2.08e-02
## 2662  7.91e-03  2.66e-03 -1.31e-02 -1.59e-02  1.11e-02  4.04e-03  7.28e-03
## 2663  1.08e-02  6.11e-03 -1.59e-03  3.17e-04 -1.20e-02 -5.95e-03 -3.46e-03
## 2664 -5.47e-03 -2.86e-03  1.77e-02  6.01e-03 -5.31e-03 -2.00e-03 -4.59e-03
## 2665 -3.52e-03  2.84e-03 -1.29e-02  7.33e-03 -1.83e-02 -1.90e-02 -1.08e-02
## 2666  9.76e-04 -2.99e-04 -4.49e-03 -6.70e-05  1.04e-03  5.86e-03  1.01e-03
## 2667  1.99e-03  3.59e-03 -8.54e-03 -5.95e-04  6.84e-03  5.17e-03  1.73e-03
## 2668  3.06e-02 -6.25e-04  2.01e-03 -1.00e-02  1.74e-02  2.93e-02  1.94e-02
## 2669 -1.42e-02 -1.80e-02  3.74e-02 -6.49e-03 -7.70e-02  6.60e-03  1.08e-02
## 2670 -3.65e-03  1.68e-02 -1.60e-02 -2.70e-02  1.81e-02 -1.67e-02  1.05e-03
## 2671 -1.32e-03 -5.25e-03  1.86e-02 -6.54e-03 -5.71e-03 -1.06e-03 -1.72e-03
## 2672  3.12e-03 -8.83e-04 -7.55e-03  1.20e-04  5.84e-03  5.24e-03  8.15e-04
## 2673 -2.46e-02  3.67e-02  2.46e-02 -1.77e-02 -4.97e-05 -3.00e-02 -3.50e-03
## 2674  1.91e-02 -6.30e-02 -1.27e-01 -1.83e-02  2.14e-01  1.18e-01 -1.11e-02
## 2675 -1.84e-03  1.72e-03  2.43e-04  1.11e-03  2.02e-03 -3.07e-03 -2.06e-03
## 2676 -2.09e-04  9.90e-05  3.71e-04  7.41e-04 -2.55e-04  2.17e-04  1.89e-04
## 2677 -1.09e-02  5.35e-03 -1.83e-03  2.91e-03  1.20e-02 -3.16e-03 -9.39e-03
## 2678  4.01e-05  5.96e-04  7.54e-04 -7.60e-04  1.10e-03  2.09e-04 -3.58e-04
## 2679 -1.38e-03  1.92e-03  1.47e-03  1.98e-03 -1.78e-03 -1.02e-03 -1.34e-04
## 2680  4.89e-03  2.50e-02 -9.80e-03  1.41e-03 -1.07e-02  4.31e-03 -4.60e-03
## 2681 -1.75e-02  3.45e-04  1.08e-02  5.50e-03 -5.89e-04  1.12e-02  4.01e-03
## 2682 -6.01e-02  1.91e-02  2.61e-02 -6.42e-02  7.45e-02 -2.16e-02  1.04e-03
## 2683 -1.22e-04 -4.32e-05  1.42e-04  8.70e-05 -1.40e-05 -1.05e-04 -2.31e-05
## 2684  4.81e-03  8.35e-03 -9.30e-02  4.98e-02  6.52e-02 -4.44e-02 -4.45e-02
## 2685 -5.19e-04 -1.44e-04  5.89e-04 -3.78e-05  9.88e-05  1.04e-05 -5.66e-05
## 2686 -1.65e-02 -2.80e-02  5.83e-02 -1.91e-02 -2.12e-02 -7.54e-03  5.52e-03
## 2687  2.51e-03 -3.09e-03  1.25e-03  3.16e-03 -4.27e-03  1.02e-02  4.27e-03
## 2688  1.43e-03 -4.61e-03  2.70e-05 -2.75e-03  8.90e-03  2.90e-02  1.07e-02
## 2689  6.88e-03 -1.84e-02 -2.69e-03  1.36e-02  1.32e-02 -5.17e-02 -3.21e-02
## 2690 -2.28e-03  2.14e-03  2.58e-03  1.21e-03 -1.52e-03  3.70e-03  1.03e-03
## 2691  2.19e-05  1.01e-03  1.06e-03 -4.11e-03  1.25e-03  9.80e-03  4.95e-03
## 2692 -3.24e-04  3.80e-06  3.02e-04  1.09e-04  1.31e-04  9.66e-05  5.13e-05
## 2693 -6.12e-03  1.29e-04  1.32e-02 -2.21e-03 -1.01e-03  6.20e-03  1.51e-03
## 2694  3.28e-03  2.78e-03  2.84e-04 -3.66e-03 -5.45e-04 -1.60e-02 -2.90e-03
## 2695  2.24e-03  1.54e-02  3.59e-02  9.74e-03 -7.08e-02  1.07e-02  9.98e-03
## 2696  2.12e-02  2.05e-03 -4.71e-03 -9.30e-03 -3.15e-02  9.64e-02  3.16e-02
## 2697  1.31e-03 -4.95e-03  3.78e-03 -1.58e-03 -6.65e-03 -1.57e-02 -3.86e-03
## 2698 -1.28e-04 -8.59e-05  2.34e-04  1.24e-04 -2.37e-04 -3.81e-05  1.02e-04
## 2699  2.44e-02 -1.54e-02 -4.82e-02 -1.15e-02  3.22e-02  2.39e-02  1.26e-03
## 2700 -1.92e-03  1.05e-02  8.01e-03 -7.38e-03 -1.16e-02  1.61e-02  1.02e-02
## 2701 -1.44e-03  1.08e-03 -6.60e-04  2.41e-03  8.04e-04  2.09e-03  1.30e-03
## 2702  3.39e-03 -1.60e-03 -4.91e-03 -5.72e-03 -2.60e-03  4.46e-03  2.39e-03
## 2703  7.59e-03  4.60e-03 -6.11e-03 -9.28e-03  1.11e-03 -1.08e-02 -6.71e-03
## 2704 -4.36e-03 -2.08e-03  5.71e-04 -2.89e-03  3.60e-03 -1.27e-03 -6.50e-04
## 2705  1.15e-03 -7.83e-04  1.71e-03  8.96e-04  1.68e-05  5.88e-03  2.42e-03
## 2706  1.58e-02 -6.78e-03  1.05e-02  1.83e-02  1.71e-03 -2.94e-02 -8.16e-03
## 2707 -2.58e-03 -5.89e-04  1.77e-03  1.72e-03  4.03e-03 -2.79e-03 -1.68e-03
## 2708 -1.48e-02 -1.15e-03  1.83e-02  1.40e-02 -4.04e-03 -1.84e-02 -7.07e-03
## 2709 -1.18e-04 -8.30e-05 -1.73e-04  5.32e-04  1.78e-04  5.41e-04  3.97e-04
## 2710 -3.68e-02  2.03e-02  4.52e-02  1.67e-02  1.97e-02  1.84e-02  6.92e-03
## 2711 -1.09e-02 -2.27e-03 -1.26e-02 -2.28e-03  5.50e-02 -1.29e-02 -7.85e-03
## 2712  1.62e-03 -1.72e-03  3.71e-03 -2.03e-03 -1.36e-02  1.42e-02  6.87e-03
## 2713 -8.39e-03  1.90e-03  1.38e-02  9.86e-03  7.24e-03  1.01e-02  3.05e-03
## 2714  2.19e-01 -3.84e-01  2.35e-02  1.87e-01 -3.08e-01  6.69e-02  1.54e+00

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## 2715  3.18e-03  3.64e-04 -2.97e-03 -1.99e-03 -2.55e-04 -2.84e-04  3.64e-03
## 2716  4.78e-02 -7.82e-02 -4.29e-02 -6.22e-02  6.12e-02 -1.25e-01 -4.06e-02
## 2717 -1.58e-03  1.57e-04  1.37e-03  1.68e-04  3.70e-03 -6.94e-04 -1.38e-03
## 2718  1.01e-01 -6.86e-03 -8.06e-02 -2.58e-02  9.56e-03 -1.15e-01 -3.37e-02
## 2719  2.82e-02 -9.46e-03 -3.05e-02 -2.94e-02  1.25e-02 -1.59e-04 -5.44e-03
## 2720 -1.52e-01 -1.42e-02  1.09e-01 -2.89e-02  6.40e-02 -1.92e-04 -4.20e-02
## 2721  2.18e-02 -1.24e-02 -2.37e-02 -9.48e-03 -4.14e-03 -5.28e-03  1.87e-02
## 2722 -2.40e-02 -2.32e-03  2.45e-02  3.62e-03 -9.31e-03 -3.91e-03 -4.35e-04
## 2723  3.11e-02  1.37e-02 -3.34e-02 -7.61e-03 -3.24e-03  4.96e-04  4.47e-02
## 2724  8.85e-02  2.07e-02 -5.13e-02 -9.32e-03 -2.04e-02 -2.57e-05  2.40e-01
## 2725 -5.20e-04 -2.22e-04  7.91e-04  6.25e-04 -4.79e-04 -7.19e-05 -2.76e-07
## 2726  8.76e-02  4.15e-02 -6.54e-02 -7.00e-02  4.24e-02 -1.53e-01 -4.54e-02
## 2727  1.82e-01  6.39e-02 -2.07e-01 -1.66e-02 -1.52e-02 -1.34e-01  2.66e-02
## 2728  3.34e-03  2.97e-03 -4.43e-03  1.28e-03 -2.58e-03 -3.74e-03 -1.50e-03
## 2729  9.78e-03 -5.64e-03 -1.07e-02 -7.88e-03  1.29e-02 -1.18e-02 -5.07e-03
## 2730  3.36e-02 -3.21e-02 -2.66e-02 -7.41e-03 -1.15e-02 -1.02e-02  1.60e-02
## 2731  2.69e-02 -1.70e-02 -2.33e-02 -1.13e-02  1.52e-02 -4.10e-03  1.34e-03
## 2732  7.53e-02 -1.21e-03 -7.25e-02 -1.29e-02  3.51e-02 -3.82e-03  5.12e-03
## 2733 -4.17e-02 -1.12e-02  3.02e-02 -3.60e-04 -1.48e-02  2.41e-02  7.59e-03
## 2734 -4.54e-02  1.09e-01  1.77e-02  2.13e-02 -4.52e-02  7.53e-02  3.19e-02
## 2735  2.98e-04  6.92e-04 -2.87e-04  2.15e-05 -1.56e-04 -8.16e-05  3.98e-05
## 2736 -4.62e-02  5.82e-02 -7.22e-03  2.53e-02  2.75e-03  2.23e-02  2.04e-02
## 2737  7.60e-03  1.27e-02 -8.95e-03 -9.31e-03 -6.44e-03  5.36e-04 -1.15e-03
## 2738 -7.59e-04 -1.48e-03  2.71e-04 -1.33e-03  2.49e-03  2.15e-04 -6.97e-04
## 2739 -2.03e-02 -4.89e-03  2.11e-02  1.24e-02  4.98e-04 -3.67e-03  1.13e-03
## 2740  5.50e-03 -6.19e-03 -8.17e-03 -7.47e-03  6.30e-03  4.43e-03 -2.58e-03
## 2741  3.09e-02  6.30e-02  1.73e-03 -1.02e-01 -1.90e-02  1.25e-02  1.88e-03
## 2742 -6.02e-03  1.12e-02  2.08e-04  8.58e-03 -7.92e-04 -9.67e-03 -8.52e-03
## 2743 -5.23e-03 -6.87e-04  2.28e-03  9.80e-03  9.49e-03  5.47e-03  3.93e-03
## 2744  3.31e-02  7.93e-02 -2.85e-02  1.13e-02 -8.51e-02  3.26e-02  1.82e-02
## 2745 -1.52e-04  2.17e-03 -5.00e-05  5.40e-05 -1.36e-03 -1.28e-03  1.08e-06
## 2746  1.76e-02  4.66e-02 -8.35e-03  1.36e-02 -2.54e-02 -1.74e-03 -9.56e-05
## 2747  8.90e-03  1.75e-02 -1.26e-02  9.81e-04 -9.98e-03 -6.28e-03  4.95e-03
## 2748  3.50e-04  5.85e-03  8.57e-04 -1.16e-02 -6.42e-03 -1.41e-03 -9.01e-05
## 2749  3.20e-02  2.98e-02 -3.10e-02  7.14e-03 -4.33e-02 -7.85e-03  1.30e-02
## 2750 -1.95e-03 -7.33e-04 -3.61e-04 -1.72e-03 -7.95e-03  5.18e-03  4.82e-03
## 2751  4.49e-03 -1.15e-02 -1.21e-02 -2.80e-03 -3.47e-03 -2.99e-02 -1.58e-02
## 2752 -4.45e-03 -3.67e-03  1.73e-03 -4.13e-03 -1.75e-04  4.58e-04  2.75e-04
## 2753  1.68e-04  2.74e-03 -2.63e-03 -3.00e-05 -6.72e-04  7.29e-03  2.95e-03
## 2754 -4.90e-04  7.93e-03 -8.65e-03  2.38e-03  1.86e-02 -2.32e-02 -1.65e-02
## 2755  2.77e-04  7.58e-03 -3.44e-03 -4.35e-04 -4.00e-03  6.05e-03  2.20e-03
## 2756 -1.21e-03  4.40e-03  2.93e-03  3.91e-03  2.42e-03 -5.25e-03 -4.08e-03
## 2757  7.11e-03  9.10e-03 -2.51e-02 -1.22e-02  1.06e-02 -5.93e-02 -2.82e-02
## 2758 -9.27e-04  1.24e-03  1.20e-03  1.16e-03 -5.02e-04  6.12e-04  5.04e-04
## 2759  6.10e-02  2.08e-02 -5.12e-02 -6.50e-02 -2.29e-02  7.55e-02  1.68e-02
## 2760 -3.47e-04  5.25e-03  3.17e-04 -1.80e-03 -1.86e-04  2.11e-02  5.90e-03
## 2761 -7.87e-03  5.47e-03  4.88e-03  1.70e-03  5.88e-03 -2.25e-02 -8.77e-03
## 2762 -6.83e-03 -6.59e-03  4.79e-03  7.91e-03  4.19e-03 -1.50e-02 -1.04e-02
## 2763  2.78e-03 -6.84e-03 -7.89e-04 -8.76e-03 -1.13e-02 -2.77e-03  7.69e-04
## 2764 -3.25e-03 -2.67e-04 -2.59e-03 -4.61e-03  4.63e-03  2.06e-02  6.10e-03
## 2765 -1.15e-03 -2.84e-03 -9.08e-03  6.55e-03 -6.16e-03 -6.82e-03  1.05e-03
## 2766  1.42e-02 -4.02e-03 -1.18e-02 -8.02e-03  1.48e-03 -1.75e-02 -8.94e-03
## 2767  4.90e-04  3.73e-03 -2.31e-03 -3.33e-03  1.06e-03  6.78e-03  5.60e-03
## 2768  6.03e-04  2.80e-04 -1.69e-05 -1.29e-04  2.15e-04 -8.08e-04  1.01e-04

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## 2769  1.14e-03 -7.55e-04 -3.91e-03  9.69e-04 -3.05e-03  1.27e-02  4.94e-03
## 2770  5.32e-03 -1.78e-03 -7.31e-03  1.37e-02  1.55e-02 -1.22e-02 -1.25e-02
## 2771  1.70e-02 -1.65e-02 -6.24e-03  1.30e-02 -2.03e-02 -7.51e-02 -2.74e-02
## 2772  6.64e-04 -1.73e-03 -2.40e-03 -1.02e-03  7.78e-03 -1.21e-02 -5.13e-03
## 2773 -3.62e-04 -3.20e-03  1.61e-03  5.83e-03  1.67e-02  2.20e-03  4.94e-03
## 2774  5.50e-03  3.98e-03 -7.02e-03  6.84e-03  1.16e-02 -7.56e-03 -2.05e-02
## 2775 -8.67e-03  4.20e-02 -2.01e-02  5.85e-02  7.29e-03  7.27e-02  2.33e-02
## 2776  2.95e-02  2.34e-02 -3.03e-02  7.69e-03  3.68e-02  8.94e-03  2.59e-04
## 2777  1.01e-02 -8.10e-03 -5.60e-04 -1.83e-02 -6.58e-03  9.31e-03 -4.00e-04
## 2778 -7.17e-04  1.19e-03  1.59e-04  9.04e-04  1.21e-03 -3.30e-04  6.52e-05
## 2779 -2.52e-04  1.13e-04  7.91e-04 -2.31e-04 -1.68e-03 -9.02e-04 -3.99e-04
## 2780  3.02e-03  1.62e-03 -3.71e-04 -5.89e-03 -1.02e-02  4.33e-03  2.29e-03
## 2781 -5.32e-04 -6.53e-03 -1.74e-02  1.82e-03  2.50e-02  1.65e-02  2.62e-03
## 2782  2.23e-02  1.46e-02 -2.10e-02  1.09e-03  4.03e-02 -2.45e-03 -4.51e-03
## 2783  4.44e-04 -4.23e-03  4.31e-03 -5.83e-03 -1.49e-03  4.76e-03  4.32e-04
## 2784  6.06e-03 -3.45e-03 -5.07e-03 -5.69e-03 -3.43e-03  3.12e-03 -3.21e-03
## 2785  3.19e-02  5.29e-02 -1.46e-03  4.03e-02 -1.18e-01  2.18e-02  1.19e-02
## 2786 -1.87e-03 -7.02e-03 -1.48e-04  9.31e-03 -8.01e-04 -4.41e-03 -4.62e-04
## 2787 -1.34e-02 -3.22e-03  1.02e-02  2.88e-02  2.05e-02 -1.29e-02  1.52e-02
## 2788  2.03e-02 -1.26e-02 -2.22e-02 -2.99e-02  5.41e-02  6.39e-03 -7.86e-03
## 2789  3.95e-02  5.73e-02 -5.30e-03  1.54e-02  3.06e-02  2.54e-04  8.98e-03
## 2790 -4.57e-02 -2.45e-02  5.77e-02  2.14e-02 -4.64e-02  1.89e-02  1.67e-02
## 2791 -1.94e-03 -4.54e-03 -1.37e-03 -5.28e-03  6.08e-03  3.57e-03  1.08e-03
## 2792  1.04e-02 -1.42e-03 -5.88e-03 -6.10e-03  1.08e-02  5.43e-03  3.81e-04
## 2793  2.00e-03 -4.11e-03 -2.62e-03 -7.52e-03  5.32e-03  1.39e-03 -8.46e-04
## 2794  1.35e-02  1.28e-02 -1.51e-02  1.13e-02  4.81e-02 -5.35e-03  5.07e-04
## 2795  1.86e-02  1.51e-02  8.73e-03  1.61e-02  1.16e-02 -5.43e-03  1.52e-04
## 2796  7.36e-03 -2.70e-02 -2.67e-02 -2.64e-02  4.64e-02  5.99e-03 -5.42e-03
## 2797  2.13e-02 -2.55e-02 -1.61e-02 -7.71e-03  2.32e-02  2.39e-02  6.22e-03
## 2798  2.37e-02  1.51e-02 -1.17e-02  2.74e-02  1.45e-02  6.22e-03  3.27e-03
## 2799 -4.74e-03  2.32e-02  1.41e-03 -1.22e-02  1.44e-02  1.84e-03  3.21e-03
## 2800  1.42e-02 -1.95e-02 -1.00e-02  1.30e-02  2.11e-02  2.49e-02  1.10e-02
## 2801  1.58e-03 -1.47e-02  6.86e-03  9.24e-03  2.25e-02  1.17e-02  1.09e-02
## 2802  3.64e-02  1.82e-02 -3.09e-02 -1.39e-02  3.89e-02  9.67e-03  8.83e-03
## 2803  1.67e-02  9.84e-02 -3.12e-02  4.17e-02 -4.82e-02  4.50e-02  8.97e-03
## 2804  2.60e-02  8.01e-04 -2.53e-02 -4.41e-03  3.20e-02  3.95e-03 -2.00e-03
## 2805  1.81e-02 -5.62e-02 -6.48e-03 -2.48e-02  3.54e-02  1.43e-02  5.34e-03
## 2806  2.97e-04 -1.35e-04 -2.05e-04  2.08e-04 -5.29e-05 -1.80e-04 -3.67e-04
## 2807  8.16e-03 -5.15e-03 -2.56e-03  3.33e-04 -4.58e-03  2.02e-03 -8.66e-04
## 2808 -9.95e-03  2.06e-02  2.13e-02  3.79e-02  7.61e-03  1.44e-02  2.04e-02
## 2809 -2.20e-02 -3.10e-02 -6.53e-02  2.23e-02  9.49e-02  7.95e-02  3.67e-04
## 2810 -8.61e-03 -2.09e-03  5.39e-03  7.01e-04 -4.00e-02 -1.59e-02 -2.48e-02
## 2811  2.30e-02  1.49e-01 -3.62e-02 -6.62e-02  2.03e-03 -8.68e-03 -9.30e-03
## 2812  1.27e-02 -1.42e-02  5.07e-05 -7.27e-03 -5.17e-02 -1.62e-02 -1.89e-02
## 2813 -5.49e-03  3.63e-03  2.01e-03  8.30e-03  7.55e-03  3.00e-03  3.08e-03
## 2814  5.87e-04  8.60e-03  8.52e-03 -1.35e-02 -1.70e-02 -2.52e-02 -4.83e-03
## 2815 -7.88e-03 -1.01e-02  3.83e-03 -3.36e-03 -8.92e-03  6.79e-04 -5.87e-03
## 2816  3.44e-03  3.42e-03 -4.31e-03 -5.94e-03 -3.11e-03  2.18e-03 -1.12e-03
## 2817  4.60e-03 -8.04e-03 -3.23e-03  2.09e-03 -6.03e-04 -7.15e-03 -3.15e-03
## 2818 -1.18e-02  1.87e-03  5.52e-03  7.36e-03  7.92e-03  3.61e-04  3.83e-03
## 2819 -1.74e-02 -7.64e-03  3.10e-02  7.47e-02 -3.50e-02 -1.23e-02  2.36e-04
## 2820  1.77e-04  3.32e-03 -3.74e-03 -1.76e-02  1.35e-02  6.21e-03 -1.11e-03
## 2821  7.20e-03 -1.19e-02  1.22e-03  6.51e-04 -6.85e-03 -1.27e-02 -4.73e-03
## 2822  3.90e-02 -4.81e-02 -5.11e-02 -5.53e-02  4.13e-02  2.15e-02  1.20e-02

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## 2823 -1.46e-03  6.95e-03  5.97e-04  2.11e-03  9.90e-03 -1.49e-03  1.41e-03
## 2824 -4.97e-03 -5.22e-02  3.13e-02  4.17e-02  5.77e-02  9.06e-03  1.21e-02
## 2825  3.92e-02 -1.11e-02 -3.33e-02  1.77e-02 -2.29e-02 -1.26e-02 -2.40e-02
## 2826  1.34e-03 -4.23e-03  2.14e-03 -6.30e-03  6.22e-03 -3.31e-03 -1.53e-03
## 2827  3.71e-03  9.78e-03 -1.83e-02 -6.65e-03  3.28e-02  4.82e-03 -2.23e-03
## 2828  1.35e-03  7.06e-04 -1.55e-03 -2.92e-03  4.79e-03  3.38e-03  2.89e-03
## 2829  3.06e-04 -1.18e-02  1.12e-02  6.34e-03  7.27e-03  1.18e-03  1.08e-03
## 2830  3.98e-04  1.23e-02 -4.92e-03 -1.35e-02  7.37e-03  1.83e-03 -6.07e-03
## 2831 -1.41e-03  2.43e-02 -4.87e-03  9.60e-03  2.36e-02 -4.94e-03  4.85e-03
## 2832 -1.52e-04  2.80e-03 -1.20e-03 -1.84e-04  3.31e-04  3.85e-03  1.20e-03
## 2833 -3.68e-04  1.88e-04  4.25e-04 -2.62e-04 -1.16e-04  1.42e-05 -5.40e-05
## 2834 -1.93e-03  2.27e-02 -2.41e-02  8.40e-04  2.96e-02  2.91e-02  1.02e-02
## 2835  6.17e-02 -1.34e-02 -6.42e-02 -4.84e-03  1.84e-02 -1.58e-02 -2.86e-02
## 2836  8.98e-03 -1.05e-02 -2.29e-03  7.08e-04 -4.09e-03 -3.54e-03 -1.12e-03
## 2837  2.67e-05 -3.25e-05  1.68e-04  5.42e-04 -1.55e-03 -1.02e-03 -9.25e-05
## 2838 -2.05e-03  7.31e-03 -3.34e-03 -4.59e-03  2.18e-03  1.55e-02  5.43e-03
## 2839 -9.49e-03 -7.08e-04 -8.19e-03 -8.74e-03  2.71e-02  1.84e-02  3.08e-03
## 2840 -1.49e-02  2.27e-03  1.51e-02  7.64e-03  1.78e-02  4.50e-03 -4.88e-03
## 2841  2.08e-03 -5.52e-03  4.46e-03  2.49e-03 -3.90e-03  1.03e-02  3.44e-03
## 2842 -6.58e-03  7.05e-02 -1.96e-02 -6.25e-03  2.06e-02  9.29e-03 -1.36e-02
## 2843  1.92e-03 -6.97e-03  1.33e-03 -1.89e-03  1.70e-02  3.91e-03 -4.39e-03
## 2844 -8.61e-03  1.46e-02  8.64e-03 -5.78e-04 -6.26e-03  1.20e-02  4.14e-03
## 2845 -2.01e-02  5.01e-03  2.88e-02  2.35e-02 -2.16e-02  7.87e-03  1.58e-02
## 2846 -7.19e-03  1.51e-03  4.68e-03 -1.87e-03  5.73e-04  1.35e-02  6.18e-03
## 2847 -1.22e-03  1.61e-03 -3.16e-04 -2.92e-03  2.00e-03  3.87e-03  9.41e-04
## 2848  7.53e-04 -4.48e-04  3.91e-04 -4.64e-04 -1.46e-03  3.75e-04 -8.10e-04
## 2849  5.25e-03 -6.57e-03 -1.98e-03 -1.16e-02 -3.86e-03 -4.28e-03 -3.86e-03
## 2850  5.41e-04 -1.49e-03  4.53e-04  1.91e-03  2.23e-04 -1.03e-03  7.30e-04
## 2851  1.17e-02 -1.13e-02 -5.23e-03  8.98e-03 -2.33e-02 -1.43e-02 -2.95e-03
## 2852 -7.02e-04 -2.98e-04 -1.69e-03 -1.86e-03  1.80e-03  1.95e-03 -1.32e-04
## 2853 -1.03e-02  9.60e-03  7.78e-03 -2.84e-03  8.59e-03  2.01e-02  3.34e-03
## 2854 -2.12e-03  1.75e-03  1.24e-03 -4.75e-04  6.25e-04  1.60e-03 -7.14e-04
## 2855 -1.27e-02  1.34e-02  1.26e-02  1.72e-02 -2.45e-03  1.48e-02  3.99e-03
## 2856 -3.34e-03  1.39e-03 -2.85e-04 -1.87e-03  4.18e-03  5.67e-03 -4.07e-04
## 2857 -2.94e-03  1.12e-02 -1.08e-02 -9.08e-03  9.92e-03  2.29e-03 -6.35e-03
## 2858 -2.30e-02  6.64e-02  2.74e-02  1.81e-02 -3.80e-02 -3.35e-03 -7.47e-03
## 2859  4.29e-03 -5.56e-04  5.40e-04 -2.37e-03 -2.21e-03 -4.93e-04  1.33e-03
## 2860 -1.02e-02 -1.01e-02  8.79e-04  3.56e-03  3.21e-02  1.33e-02  2.37e-03
## 2861 -7.57e-03 -1.45e-02 -2.21e-03  2.05e-02  7.67e-03  1.59e-03 -1.69e-03
## 2862 -7.97e-03  5.64e-03 -4.12e-04 -3.63e-04  3.76e-05 -8.50e-04 -4.25e-03
## 2863  1.91e-03 -5.07e-04 -9.00e-04 -3.66e-04 -1.56e-04 -5.05e-04 -1.66e-05
## 2864  1.56e-02  9.60e-03 -3.34e-02  3.79e-02  7.03e-03 -3.35e-02 -1.65e-02
## 2865  1.19e-04 -2.50e-04 -2.58e-05 -1.72e-04  8.28e-06  1.16e-04  1.36e-04
## 2866  1.64e-03 -1.81e-03 -1.57e-03 -1.63e-04 -3.58e-04 -6.02e-04 -1.30e-04
## 2867 -9.23e-04 -4.10e-03 -3.40e-03  1.57e-03  1.01e-02  1.91e-03 -4.01e-03
## 2868 -3.24e-03 -2.93e-03  3.49e-04  3.50e-03  5.19e-04 -8.91e-04 -1.08e-03
## 2869  1.17e-02 -5.70e-03 -2.43e-03 -1.83e-03 -1.35e-02  1.04e-03  4.04e-03
## 2870 -3.10e-03  1.79e-03 -9.87e-04  1.80e-04  1.91e-03 -2.22e-03 -8.46e-04
## 2871  1.18e-03  2.50e-03 -5.54e-03 -4.96e-03  7.61e-03  4.50e-04 -4.44e-03
## 2872 -1.79e-03  6.94e-04 -9.99e-04 -2.03e-03  1.21e-03 -1.96e-03 -2.88e-04
## 2873  1.05e-03  2.08e-04 -1.75e-03 -6.75e-04  8.30e-04 -1.70e-03  4.18e-04
## 2874  1.68e-03 -1.30e-03  2.01e-03  2.02e-03 -3.22e-03  1.13e-03 -6.72e-03
## 2875  2.24e-04 -4.66e-04  3.80e-04  1.55e-04 -6.62e-04 -4.78e-04  1.38e-04
## 2876  1.68e-02  1.85e-03 -1.21e-02  1.72e-02  1.39e-02  8.91e-03  4.56e-03

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## 2877  1.81e-03  5.45e-03 -1.44e-02 -1.66e-03  9.59e-03  2.60e-03 -7.16e-03
## 2878  1.13e-02 -1.25e-02  9.51e-03  1.29e-02  1.07e-03 -8.02e-03  3.58e-03
## 2879 -2.11e-03  4.09e-03 -3.47e-03 -3.10e-03  2.55e-03 -3.70e-03 -5.09e-03
## 2880  4.38e-03  2.70e-03 -1.02e-02  7.86e-03 -2.03e-03 -7.70e-03 -5.13e-04
## 2881 -6.72e-03  4.97e-03 -1.36e-02 -7.06e-03  1.76e-02 -3.06e-03  1.49e-04
## 2882 -4.78e-04 -4.18e-05  1.75e-03 -2.48e-03 -1.10e-03  4.90e-04  1.84e-03
## 2883  1.13e-03 -3.39e-03  1.14e-03  2.03e-05 -2.22e-03 -1.75e-04  9.27e-04
## 2884 -4.81e-04  4.90e-04 -5.17e-04 -2.14e-05  1.42e-03  6.47e-04 -3.74e-04
## 2885  1.01e-03  2.20e-03 -5.90e-03 -3.27e-03  7.75e-03  2.55e-03 -4.80e-03
## 2886 -9.90e-03  1.71e-02  4.49e-03 -1.70e-03  6.77e-03  1.53e-02  2.77e-03
## 2887  1.35e-02 -5.41e-03  4.53e-03 -5.43e-03 -4.50e-03 -2.70e-03  4.68e-03
## 2888 -4.39e-03  3.80e-03 -1.45e-03 -3.26e-04  4.14e-03  5.19e-03  4.34e-04
## 2889  1.18e-02 -7.79e-03 -1.79e-02 -7.00e-03  1.15e-03 -1.76e-02 -5.37e-03
## 2890 -1.65e-02  4.62e-03 -5.51e-03 -1.12e-02  2.56e-03  3.51e-03 -5.75e-03
## 2891 -9.63e-03 -7.74e-04 -1.50e-03  2.25e-03  4.75e-03 -2.31e-03 -5.07e-03
## 2892  6.50e-03 -6.10e-03  7.42e-03  1.43e-03 -6.13e-03  8.11e-03  6.21e-03
## 2893 -3.18e-02  6.99e-03  2.86e-02 -4.04e-03 -1.75e-02 -4.62e-03 -3.91e-03
## 2894 -8.12e-04  7.09e-04 -4.46e-04 -1.06e-03  1.63e-03  1.60e-03 -1.09e-03
## 2895  3.96e-04  4.39e-04 -6.53e-04 -1.30e-03 -6.18e-04  6.04e-04 -4.09e-04
## 2896 -5.57e-04 -1.58e-03 -1.37e-03 -6.01e-04  2.57e-03  8.15e-04 -1.60e-03
## 2897 -1.95e-03  4.37e-03  4.79e-04 -2.89e-03  1.38e-03  1.47e-04  3.04e-03
## 2898  6.01e-03 -7.09e-03 -2.30e-03  2.67e-03 -1.44e-03 -4.91e-03  4.01e-03
## 2899  1.16e-02 -1.02e-02  5.76e-03 -8.65e-04 -7.27e-03  6.73e-03  7.94e-03
## 2900  4.22e-03  5.48e-05 -2.37e-03  3.79e-03  3.88e-03 -4.74e-03 -1.39e-03
## 2901  1.01e-02  6.19e-03 -6.66e-03 -2.48e-03 -3.05e-03 -1.67e-03 -1.70e-03
## 2902  9.22e-03 -1.66e-02  3.93e-02  5.18e-03 -4.89e-02  1.38e-03  1.07e-02
## 2903 -3.65e-03  5.17e-05 -3.06e-02  1.65e-02  4.75e-02  2.95e-03 -1.59e-02
## 2904  1.31e-03 -1.39e-05  1.19e-04  6.69e-04  6.57e-05  1.57e-04  1.05e-03
## 2905  1.02e-03 -6.96e-03 -2.29e-04  1.52e-03  4.74e-03 -6.05e-03  5.92e-04
## 2906  8.22e-04 -2.48e-04 -1.76e-04  9.62e-05 -3.02e-04 -1.04e-03  1.95e-05
## 2907 -1.21e-03  6.01e-04  1.33e-03 -5.54e-04 -4.44e-04 -3.05e-03 -1.58e-03
## 2908  6.33e-03 -2.58e-03 -3.80e-03 -5.25e-04 -1.08e-02 -8.17e-03 -8.77e-04
## 2909  4.21e-04 -1.00e-03  2.85e-04  4.26e-04 -2.57e-04 -4.51e-04  3.02e-04
## 2910  5.13e-02  2.13e-02 -2.78e-02  3.21e-02 -1.91e-02  3.22e-03 -1.07e-02
## 2911  4.88e-03  4.10e-03  9.58e-03  3.34e-03 -1.48e-02 -1.06e-02  2.22e-03
## 2912  6.33e-03 -1.64e-04 -1.03e-03 -1.30e-03 -1.71e-03  3.16e-04  1.77e-03
## 2913  1.02e-02 -7.36e-03  2.33e-03 -1.36e-02 -1.07e-02 -5.57e-04  2.96e-03
## 2914 -4.41e-03 -1.89e-02 -6.78e-03  5.40e-03  1.77e-02  2.81e-03 -5.09e-03
## 2915 -2.02e-03  9.77e-03 -8.38e-03 -6.31e-03  1.30e-03  1.77e-03 -3.96e-03
## 2916 -1.27e-02  1.60e-02  1.45e-02  4.40e-03 -4.78e-03  6.71e-03 -7.64e-04
## 2917 -2.11e-04  1.60e-04  2.53e-05 -1.39e-04  1.83e-04  1.76e-04 -1.68e-05
## 2918 -1.05e-02  9.97e-03  4.88e-03  6.03e-03  8.79e-03  3.57e-03 -1.58e-03
## 2919 -5.41e-04 -7.57e-04 -1.57e-03  5.89e-04  7.51e-03  2.74e-03 -2.54e-03
## 2920  4.08e-03 -1.48e-02  6.56e-03 -3.70e-03 -4.28e-05 -1.17e-05  7.58e-03
## 2921 -1.97e-03  1.55e-03  2.92e-03  1.40e-03 -1.85e-03  1.76e-04 -1.91e-04
## 2922 -2.92e-02  2.95e-02  2.06e-03  2.10e-02  3.40e-02  1.73e-02 -7.57e-03
## 2923 -3.25e-03  1.65e-03 -8.31e-03 -3.02e-04  8.38e-03  6.13e-03 -4.34e-03
## 2924 -8.71e-03  8.36e-03 -5.74e-03 -2.94e-03  7.76e-03 -1.02e-02  4.60e-03
## 2925 -1.15e-02  1.15e-02  9.38e-03 -9.01e-05 -1.67e-03  6.10e-03 -5.40e-04
## 2926 -4.53e-03 -1.36e-03 -1.73e-03 -2.25e-03  9.80e-03  3.28e-03  1.51e-03
## 2927  8.02e-04 -3.28e-04  1.71e-03  1.27e-03 -1.44e-03  7.06e-04  1.21e-03
## 2928 -3.21e-02 -6.22e-03  1.59e-02  4.52e-02  5.99e-03 -2.41e-02 -5.28e-03
## 2929 -5.35e-04  3.11e-04  4.22e-04  6.66e-04 -1.85e-04 -2.93e-04 -2.85e-04
## 2930 -4.73e-04 -1.43e-04 -6.50e-03 -1.30e-02 -4.92e-03  1.08e-02  1.90e-02

```

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## 2931  3.42e-04 -2.00e-04 -3.15e-04 -3.95e-04 -7.15e-05  3.47e-04 -2.67e-05
## 2932 -1.45e-03 -3.04e-03  4.46e-03  1.82e-03 -4.91e-03 -6.00e-03 -9.12e-04
## 2933  2.41e-04 -1.10e-02 -1.67e-02 -2.87e-02 -5.88e-03 -4.67e-03  4.12e-03
## 2934  7.72e-03 -4.15e-03 -6.92e-03  2.05e-02 -8.40e-04  3.01e-03  2.86e-05
## 2935 -2.19e-03  4.53e-03  7.83e-03  5.50e-03 -6.43e-03 -4.63e-03  4.92e-04
## 2936 -2.85e-03 -7.93e-03 -1.36e-02 -8.85e-03  1.42e-02  1.23e-02 -1.90e-03
## 2937  1.62e-02  1.84e-03 -2.11e-02 -1.15e-02  3.54e-03  7.05e-03 -4.46e-03
## 2938  4.24e-04 -5.75e-04 -4.68e-05  3.30e-04 -3.42e-04 -3.40e-04  7.16e-05
## 2939  2.83e-03 -1.91e-03 -1.51e-02 -1.86e-02  8.63e-03  1.30e-02 -7.40e-03
## 2940 -8.00e-04 -9.55e-05  8.44e-04  2.51e-04 -3.74e-04  5.96e-04  1.92e-04
## 2941  1.36e-03  3.42e-05 -7.46e-04 -2.04e-03 -4.06e-04  7.50e-04  8.02e-05
## 2942 -1.03e-02 -7.60e-03 -6.20e-03 -4.05e-03  2.15e-02  4.31e-03 -6.14e-03
## 2943  4.02e-03 -4.41e-03 -6.42e-03 -9.80e-03  4.82e-04  1.05e-02  3.17e-03
## 2944  6.82e-03  1.18e-03 -1.05e-02 -6.75e-03  4.33e-03  5.84e-03 -1.38e-03
## 2945 -3.34e-04 -4.53e-04 -2.10e-03  1.81e-03 -1.40e-03 -3.23e-03  2.25e-04
## 2946 -3.59e-03 -6.00e-03 -8.24e-03 -4.71e-03 -7.79e-03 -7.03e-03 -1.20e-02
## 2947 -7.81e-03 -1.47e-03  7.89e-03  9.59e-03 -1.24e-03 -4.25e-03  6.35e-04
## 2948  2.03e-02 -1.30e-02 -3.94e-02 -2.51e-02  5.36e-02  5.52e-02  6.51e-03
## 2949  1.15e-03  4.43e-04 -2.07e-03 -9.97e-04  8.88e-04  8.27e-04 -6.00e-04
## 2950  9.90e-05 -9.35e-04 -4.92e-05  9.53e-04  1.07e-03 -3.24e-05  9.75e-04
## 2951 -4.09e-03  1.46e-03  3.12e-03  9.04e-04  1.01e-03 -1.72e-03  1.78e-03
## 2952  2.36e-04 -3.83e-03 -5.64e-03 -2.51e-03  1.13e-02 -8.76e-03  3.26e-03
## 2953 -1.40e-04 -9.21e-03  1.72e-04 -2.94e-03  1.45e-02 -2.56e-03  1.63e-03
## 2954  1.18e-02 -7.85e-03 -3.20e-03 -1.21e-03  7.42e-03  1.86e-03  5.36e-03
## 2955 -5.98e-04  5.19e-04  1.80e-04  3.73e-04 -6.83e-04 -1.69e-04 -1.57e-04
## 2956 -1.98e-03  8.91e-04  8.88e-04  3.06e-04 -3.67e-04  9.57e-05 -1.41e-04
## 2957  1.43e-04 -8.70e-03  9.17e-03  6.26e-05  9.68e-04  5.91e-03  1.11e-02
## 2958 -1.43e-03 -1.47e-03  1.19e-03  4.21e-03 -3.71e-04 -6.22e-04 -2.44e-03
## 2959 -1.93e-03 -1.50e-03  3.72e-03 -2.55e-03  4.38e-03  7.30e-04 -1.35e-03
## 2960 -2.22e-04  3.28e-04 -1.68e-05  1.52e-04 -6.10e-04 -2.58e-04 -2.43e-04
## 2961  2.66e-03 -3.00e-03 -5.47e-04 -1.66e-03  1.87e-03  1.26e-04  9.12e-04
## 2962  2.45e-05  1.21e-03 -8.11e-04  4.49e-04 -2.40e-03  4.74e-04 -1.04e-03
## 2963 -2.79e-03  2.31e-03  1.51e-03 -1.44e-03 -2.63e-03  1.23e-03  1.56e-03
## 2964  7.43e-04 -1.16e-03 -7.26e-04 -3.17e-04  5.60e-03 -9.28e-04  2.00e-03
## 2965 -4.60e-03  2.46e-02  9.67e-03 -4.49e-03 -1.19e-03 -2.66e-03  1.59e-02
## 2966  1.59e-02 -4.60e-02 -3.38e-03 -1.59e-02  2.23e-02  7.20e-03  8.18e-03
## 2967  4.62e-03 -7.27e-04  1.76e-03  3.66e-03  7.03e-03  2.51e-03  2.26e-03
## 2968 -2.95e-04  1.72e-03 -2.76e-04  3.65e-04 -7.37e-04  1.20e-04 -2.06e-04
## 2969 -2.38e-03 -1.12e-04 -1.55e-03 -3.05e-03 -4.27e-04  1.55e-03 -1.38e-03
## 2970  1.25e-04 -2.84e-03  6.80e-03  5.23e-03 -2.51e-03  4.15e-03  1.47e-02
## 2971 -3.75e-03 -2.54e-04 -6.12e-03  1.33e-02  1.27e-02 -9.44e-03 -1.18e-02
## 2972  7.14e-03  3.35e-03 -3.11e-03 -3.61e-03  1.79e-03  2.82e-03  5.12e-03
## 2973  1.39e-03 -3.46e-04 -1.22e-03 -1.54e-03  9.25e-04 -1.82e-04  1.03e-03
## 2974  6.53e-03 -1.25e-02 -3.37e-03 -2.63e-02  2.87e-02  1.26e-02  1.39e-02
## 2975  1.14e-02 -9.19e-03 -5.48e-03  6.56e-04 -3.93e-03 -1.13e-02 -6.10e-04
## 2976  1.94e-03  2.18e-04 -2.72e-03 -2.08e-03 -2.82e-04  7.07e-04 -9.27e-04
## 2977  1.94e-02 -1.01e-02 -4.37e-03 -1.66e-05  7.99e-03  7.28e-04 -7.46e-03
## 2978 -7.27e-03 -8.31e-03  9.76e-03  6.25e-03 -4.48e-03  5.30e-03 -4.83e-04
## 2979  2.52e-04 -1.13e-02  4.73e-03  1.38e-02  1.22e-02  8.32e-03  9.02e-03
## 2980 -2.41e-03 -6.36e-03 -5.19e-03 -4.23e-03  6.13e-03 -1.16e-03 -5.73e-03
## 2981 -4.29e-03  1.58e-03 -2.99e-03 -4.78e-03  1.00e-02  7.54e-03 -3.63e-03
## 2982 -7.50e-03  1.73e-03  5.47e-03 -2.59e-03 -4.31e-03 -3.19e-03 -4.38e-03
## 2983 -1.62e-02  4.65e-03  4.44e-03 -2.18e-03 -3.87e-04  2.69e-04  1.86e-03
## 2984 -9.13e-03  1.43e-02 -2.16e-05 -7.00e-04 -1.04e-02 -9.91e-03 -7.88e-03

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## 2985  6.26e-03  1.29e-02 -2.74e-03  6.21e-03  3.12e-02 -8.95e-04  5.80e-03
## 2986  9.01e-03 -4.90e-03 -4.05e-03 -1.09e-02  7.34e-03 -6.42e-03  2.83e-03
## 2987  2.76e-02  2.12e-02 -3.07e-02 -4.84e-03  3.18e-04  1.68e-02 -7.24e-03
## 2988  7.59e-02 -4.56e-03 -4.90e-02 -1.64e-02 -2.40e-02 -3.04e-02 -1.26e-04
## 2989  1.14e-03 -1.18e-03  1.65e-04  1.86e-03  1.14e-03 -5.95e-05  6.71e-04
## 2990 -2.34e-03  3.52e-03  1.09e-03  1.84e-03 -1.06e-02 -4.14e-03 -4.94e-03
## 2991  1.17e-03  1.19e-03  2.51e-03  9.93e-04  3.04e-03  5.76e-05  1.31e-03
## 2992  8.46e-03 -9.44e-03 -3.85e-03  2.80e-03  8.79e-03 -5.15e-03 -4.39e-03
## 2993 -1.78e-03  1.79e-03 -9.63e-04 -1.70e-03  6.34e-03  5.69e-04  4.27e-03
## 2994  2.43e-03 -1.76e-03  4.75e-03  3.00e-03  3.48e-03  2.97e-03  6.01e-03
## 2995  3.81e-03  8.65e-03  9.23e-04 -2.30e-02  1.14e-02 -6.31e-03  8.35e-03
## 2996 -1.33e-03  2.14e-03 -1.57e-03 -1.42e-02 -3.46e-03  6.53e-03  8.29e-03
## 2997  1.90e-03  1.89e-03 -2.31e-03 -2.27e-03 -1.31e-03  2.25e-03 -1.12e-03
## 2998  2.24e-03 -8.36e-03  3.72e-04  1.97e-04 -5.79e-04  1.79e-03 -8.25e-04
## 2999  1.01e-04  2.66e-05 -2.12e-04 -7.59e-05  1.50e-04 -1.31e-05 -2.23e-05
## 3000 -1.74e-03  3.49e-05 -4.83e-05  4.90e-03 -3.37e-03 -1.30e-03 -3.54e-03
## 3001  1.17e-03  3.25e-03 -2.61e-03 -3.48e-03 -2.07e-03  1.05e-03  1.48e-04
## 3002 -4.67e-03 -4.92e-04  6.50e-03 -2.06e-02  1.68e-02  5.89e-03  1.04e-02
## 3003  5.96e-04 -9.56e-05 -5.48e-04  3.61e-03  2.75e-03  4.18e-03  4.19e-03
## 3004  5.94e-03  8.33e-03 -2.05e-02  2.50e-02  7.44e-03 -1.63e-02 -1.72e-02
## 3005  9.75e-03 -7.28e-03 -3.05e-03 -1.84e-03  4.16e-03  6.16e-03  3.97e-03
## 3006 -4.19e-04  1.61e-03  2.16e-04 -1.50e-04 -1.90e-03  4.81e-04 -8.54e-05
## 3007  2.25e-03 -2.36e-03 -2.25e-03 -2.02e-03 -5.12e-04  3.26e-03 -1.15e-03
## 3008 -2.08e-03  2.26e-03  2.37e-03  2.44e-03  1.61e-05 -6.98e-04 -3.60e-04
## 3009  2.71e-03 -6.14e-03 -1.46e-03  8.47e-04 -1.16e-03 -4.23e-03  1.15e-03
## 3010  5.18e-04  1.46e-03 -2.74e-03 -1.89e-03  8.01e-04 -5.12e-04 -2.38e-03
## 3011 -3.34e-03 -8.77e-03  1.04e-02  6.07e-03  7.99e-03 -2.89e-03  4.09e-03
## 3012  1.09e-03  1.78e-02 -1.16e-02 -7.21e-04  2.19e-02 -1.27e-02 -5.15e-03
## 3013 -3.66e-03 -1.61e-03  3.29e-03  8.16e-03 -6.28e-03 -1.39e-02  3.41e-03
## 3014 -9.22e-04 -1.10e-03 -3.44e-04  1.48e-03  1.48e-03 -5.23e-04 -1.60e-03
## 3015 -2.77e-03  3.46e-03 -9.52e-04 -4.21e-03  4.41e-03  4.46e-03  6.02e-03
## 3016  2.25e-04  3.21e-04 -6.32e-05 -1.10e-03 -8.11e-04  7.99e-04  2.62e-04
## 3017  8.85e-03 -7.82e-03  6.36e-03 -2.14e-02  1.20e-02  1.66e-03  1.33e-02
## 3018  3.56e-03  1.20e-03  3.91e-03 -3.55e-03  9.05e-04 -4.36e-03  3.56e-03
## 3019  2.73e-04 -1.65e-03  1.08e-02  3.03e-03 -3.60e-03  1.10e-02 -2.99e-03
## 3020  4.06e-04  2.92e-04  1.35e-04  1.82e-04 -2.99e-04 -1.40e-05 -5.45e-04
## 3021  5.84e-03 -6.78e-04 -1.13e-04 -4.48e-03  3.76e-04  4.04e-03 -3.83e-03
## 3022 -1.19e-02  6.48e-03  1.47e-02  2.47e-02 -2.97e-02 -1.34e-02 -2.74e-03
## 3023  4.66e-05 -3.76e-05 -1.25e-04  5.45e-05  7.62e-05 -1.85e-04  8.35e-05
## 3024  1.26e-03 -5.99e-04 -1.14e-02  7.52e-03  1.27e-02 -2.29e-03  1.61e-04
## 3025 -1.44e-03  5.28e-04  5.71e-03  2.88e-03 -8.04e-03 -2.65e-03 -7.76e-04
## 3026 -1.02e-04 -3.11e-04 -1.34e-03 -4.71e-03  2.63e-04  5.89e-06 -1.88e-03
## 3027 -8.93e-05  3.57e-05  6.74e-05  2.41e-04 -8.27e-04  8.83e-05 -3.93e-05
## 3028 -3.04e-03  3.71e-03  7.27e-03  1.49e-02 -1.30e-02 -6.70e-03 -1.14e-04
## 3029  1.88e-03 -2.97e-03 -3.97e-03 -1.54e-02  1.45e-02  3.66e-03  1.86e-03
## 3030  2.52e-04 -1.63e-03 -5.05e-03 -4.22e-03  2.85e-02  1.93e-03  2.15e-03
## 3031 -4.93e-03  1.05e-03  6.89e-03  3.56e-03 -1.01e-02 -6.69e-03 -4.28e-03
## 3032  4.89e-03 -8.25e-04 -4.19e-03 -3.77e-04  1.03e-03  6.07e-03 -1.70e-03
## 3033  1.44e-03  5.06e-04 -2.81e-03  1.98e-03 -1.23e-03  3.87e-05 -1.45e-03
## 3034  1.81e-04  9.00e-03 -1.50e-02  1.74e-03 -7.27e-03  8.25e-03  5.58e-03
## 3035  1.46e-03 -5.99e-04 -7.29e-04 -5.78e-03  4.59e-04  3.44e-03 -5.61e-04
## 3036  3.56e-02  4.36e-03 -2.01e-02  7.54e-02 -4.43e-02  2.01e-02 -2.64e-03
## 3037 -2.67e-03 -1.23e-03 -3.29e-03 -2.09e-03  2.70e-03  9.56e-04 -2.59e-03
## 3038 -4.85e-03 -2.70e-03 -2.62e-03  3.01e-03  3.82e-03  1.91e-03  5.30e-03

```



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## 3039 -1.17e-02  4.95e-03 -1.03e-02  2.09e-02  9.01e-03 -1.56e-02 -9.35e-03
## 3040  3.24e-02  3.01e-02 -1.45e-02  5.29e-02 -5.94e-02 -2.26e-02 -1.91e-02
## 3041 -3.96e-02  1.11e-03  3.78e-02  4.43e-02 -3.03e-02 -1.70e-04  1.18e-02
## 3042 -2.67e-02  5.50e-03  1.39e-02  2.58e-02  5.88e-03 -2.05e-02  9.59e-03
## 3043  8.48e-03  4.11e-03 -1.60e-03 -4.80e-04  1.22e-02  3.07e-03  1.06e-02
## 3044  1.81e-02 -1.35e-02 -2.20e-02  2.28e-02  2.58e-02 -8.32e-03 -1.19e-02
## 3045 -1.83e-02 -1.28e-02  1.46e-02  4.71e-02  5.54e-03 -1.94e-02 -7.69e-04
## 3046 -2.68e-03 -2.36e-04  1.06e-03 -2.08e-03  1.08e-03 -2.91e-04 -1.73e-03
## 3047 -9.67e-03 -1.16e-02 -1.10e-02 -9.61e-02  2.86e-02 -2.14e-02 -9.54e-04
##      dfb.pct_t_ dfb.pct_m_ dfb.p__1 dfb.pct_w_ dfb.incm_      dffit cov.r
## 1      1.66e-03  5.16e-04 -7.18e-03 -4.61e-03  3.38e-03 -2.48e-02 1.004
## 2     -4.86e-04  1.17e-03  1.57e-03 -1.54e-04 -4.54e-04 -3.80e-03 1.007
## 3      3.43e-03 -2.51e-03  9.53e-03  1.33e-02  6.10e-03  4.19e-02 1.002
## 4     -6.37e-05 -5.24e-03  7.61e-03  3.85e-03  6.48e-03  2.77e-02 1.004
## 5      2.84e-03  2.77e-03 -8.72e-04  1.22e-04 -1.08e-03 -1.74e-02 1.006
## 6     -1.06e-02  4.72e-03 -8.16e-03  1.43e-02 -6.87e-03 -5.36e-02 1.003
## 7     -2.11e-02 -7.55e-03 -4.78e-03 -2.83e-03 -1.54e-02 -3.46e-02 1.006
## 8      2.95e-03 -6.43e-03 -5.62e-04 -5.76e-03  9.05e-03  3.08e-02 1.006
## 9     -6.08e-04 -3.69e-03 -6.19e-03 -4.62e-03 -8.64e-03 -1.82e-02 1.007
## 10     6.24e-04  1.47e-03 -4.53e-03  1.67e-04  8.20e-04 -1.68e-02 1.006
## 11     -2.11e-02  2.37e-02  2.80e-02  1.10e-02 -1.02e-02 -1.19e-01 0.994
## 12     -1.70e-02 -1.81e-03 -6.43e-03 -3.64e-03 -3.46e-03 -2.55e-02 1.004
## 13     -4.77e-03 -1.31e-02  1.68e-02  4.48e-03  1.21e-03  4.03e-02 1.002
## 14      2.84e-03  4.10e-04 -3.99e-03  2.56e-03  2.99e-03 -2.35e-02 1.008
## 15      4.49e-04  9.94e-04  5.95e-04 -3.31e-04 -3.55e-04 -2.96e-03 1.005
## 16      5.80e-04 -4.33e-03  2.82e-04 -1.27e-03 -4.84e-03 -1.02e-02 1.005
## 17      2.81e-03  2.26e-03 -2.23e-03  8.90e-05  1.84e-03 -1.91e-02 1.005
## 18     -2.72e-04 -2.71e-03  6.44e-03  4.15e-03 -1.12e-02 -7.29e-02 1.000
## 19     -4.64e-03  2.53e-03  2.11e-03  2.21e-04 -4.89e-04 -8.85e-03 1.005
## 20     -1.53e-03  3.22e-03  1.56e-02  6.10e-03 -1.63e-03 -2.85e-02 1.004
## 21      1.06e-02  8.71e-03  1.76e-02 -4.63e-02 -3.28e-02 -1.31e-01 1.011
## 22     -8.37e-03  1.17e-03 -3.90e-03 -9.30e-04 -1.93e-03 -1.17e-02 1.009
## 23     -2.22e-03  7.71e-03 -7.10e-03 -1.24e-03  7.04e-03  1.62e-02 1.006
## 24     -4.34e-03 -1.24e-02  2.01e-02  1.27e-02 -1.36e-03  4.50e-02 1.000
## 25      9.35e-04  1.51e-02  2.99e-02  3.38e-02  3.60e-02  8.62e-02 0.996
## 26     -2.82e-04 -5.84e-04  3.07e-03  1.86e-03 -4.24e-03  7.53e-03 1.011
## 27      1.43e-04 -4.70e-03 -3.68e-03 -3.72e-04  1.29e-03  1.10e-02 1.005
## 28     -3.69e-05 -1.34e-03 -4.18e-04 -5.75e-05 -2.26e-03  3.11e-03 1.010
## 29      3.30e-03  2.14e-02 -6.54e-02 -3.97e-02 -6.94e-02  1.51e-01 1.007
## 30     -6.61e-03 -3.48e-02 -9.98e-03 -2.72e-03  4.21e-02 -9.32e-02 1.008
## 31     -4.07e-02 -4.30e-02  1.10e-01  4.76e-02  2.34e-02  1.85e-01 1.000
## 32     -5.70e-03 -6.75e-03  1.95e-02  4.23e-03  2.21e-02  4.48e-02 1.001
## 33      1.02e-03  2.72e-02 -2.93e-02 -3.97e-04 -2.49e-02  5.63e-02 1.008
## 34      9.59e-03 -9.09e-03 -7.88e-03 -3.14e-02 -2.09e-02 -7.73e-02 0.997
## 35     -1.86e-04  9.59e-04 -8.44e-04 -5.59e-04 -1.96e-03 -4.54e-03 1.006
## 36     -1.68e-04 -3.74e-02  1.94e-02 -1.45e-04  7.54e-03  4.39e-02 1.011
## 37     -6.60e-05 -1.29e-03 -9.10e-04 -7.66e-04 -6.06e-05  2.88e-03 1.006
## 38      7.92e-03  2.18e-02 -4.43e-02 -2.08e-02 -7.02e-03 -5.84e-02 1.004
## 39     -2.76e-03 -1.33e-02  7.80e-03 -4.46e-03 -3.30e-05  2.69e-02 1.003
## 40     -9.14e-04  4.77e-03  2.62e-03  7.24e-03  4.16e-03  1.51e-02 1.004
## 41     -6.42e-03  1.25e-03 -1.63e-02 -2.78e-03 -5.76e-03  3.60e-02 1.003
## 42     -1.18e-03 -1.65e-02  6.73e-03  1.56e-03  3.78e-03  2.39e-02 1.005
## 43      4.70e-05 -1.21e-03  2.12e-03 -2.88e-03  7.19e-03  2.37e-02 1.006
## 44      1.37e-03  4.23e-03  1.15e-02  8.69e-03 -2.63e-02  4.21e-02 1.008

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## 45	-2.78e-03	8.62e-03	9.43e-03	-7.57e-03	2.75e-02	7.71e-02	0.996
## 46	1.14e-03	-5.35e-03	2.25e-02	1.45e-02	-9.96e-03	4.38e-02	1.010
## 47	3.38e-04	3.48e-04	6.44e-04	2.17e-04	-9.08e-04	-3.85e-03	1.006
## 48	-7.18e-04	1.82e-03	7.14e-04	2.70e-03	1.81e-03	7.71e-03	1.004
## 49	-9.15e-05	-3.81e-03	1.70e-02	1.74e-02	1.33e-02	3.55e-02	1.004
## 50	-3.97e-03	-3.52e-03	-1.22e-03	-2.11e-03	1.45e-02	3.87e-02	1.003
## 51	-3.18e-03	-2.49e-02	7.39e-03	-7.22e-03	2.54e-03	3.02e-02	1.005
## 52	5.69e-03	1.58e-02	1.33e-02	2.39e-02	-3.76e-02	8.14e-02	1.005
## 53	9.16e-03	2.65e-02	7.49e-03	-1.78e-02	-1.32e-02	-7.51e-02	1.006
## 54	-1.72e-03	4.36e-03	-4.41e-03	2.50e-03	1.00e-02	2.27e-02	1.004
## 55	-8.89e-03	-6.40e-02	2.79e-02	-2.06e-02	-8.67e-04	1.01e-01	1.002
## 56	-2.17e-03	8.94e-03	3.65e-03	8.08e-03	1.06e-02	2.54e-02	1.004
## 57	-1.15e-04	1.59e-03	1.14e-03	-3.28e-05	-6.93e-04	-3.55e-03	1.007
## 58	9.52e-03	-1.13e-03	-2.17e-02	-1.40e-02	-1.80e-02	-6.58e-02	0.999
## 59	-2.19e-03	2.34e-02	1.07e-02	3.69e-02	1.54e-02	5.99e-02	0.997
## 60	-5.98e-04	-1.27e-03	1.64e-03	6.64e-04	-8.72e-03	1.11e-02	1.009
## 61	3.69e-03	-7.15e-03	-6.87e-03	-6.15e-03	-6.35e-03	-1.85e-02	1.004
## 62	1.41e-03	-3.83e-03	-3.78e-04	-7.67e-04	2.22e-03	-1.23e-02	1.005
## 63	-3.51e-03	-3.46e-03	2.35e-03	9.69e-04	6.92e-03	1.79e-02	1.003
## 64	3.40e-03	2.60e-04	-4.45e-03	-4.51e-03	-8.38e-03	-1.91e-02	1.005
## 65	-8.06e-04	-8.77e-03	3.92e-03	-8.29e-03	8.65e-03	3.41e-02	1.004
## 66	3.16e-04	-6.40e-04	6.35e-03	5.22e-03	-1.02e-02	1.53e-02	1.009
## 67	-1.39e-03	-5.81e-04	-1.11e-02	-2.42e-02	2.45e-02	-5.06e-02	1.008
## 68	-2.64e-04	-1.98e-04	7.63e-05	1.47e-04	2.92e-04	1.22e-03	1.005
## 69	-3.11e-03	-3.05e-02	4.16e-03	-2.78e-03	-1.97e-02	-7.25e-02	0.998
## 70	-1.35e-03	-3.35e-03	3.08e-03	-3.68e-03	3.49e-03	1.89e-02	1.005
## 71	-1.72e-03	3.37e-03	-4.08e-03	-1.01e-03	4.92e-03	1.15e-02	1.005
## 72	3.99e-04	1.45e-03	-4.65e-04	1.34e-04	-1.16e-03	-3.29e-03	1.006
## 73	1.12e-02	-5.85e-03	1.40e-02	7.11e-03	-7.63e-02	1.48e-01	0.995
## 74	7.45e-06	5.26e-04	-2.48e-03	-8.58e-04	-1.17e-03	-4.18e-03	1.007
## 75	6.41e-06	8.33e-05	-8.37e-05	1.38e-04	2.87e-04	6.19e-04	1.006
## 76	2.78e-04	4.20e-03	-1.20e-03	-5.97e-04	-2.05e-03	-8.78e-03	1.005
## 77	-7.33e-04	2.06e-02	1.58e-04	2.18e-02	-9.50e-02	1.28e-01	0.992
## 78	4.98e-03	7.47e-03	9.51e-03	1.52e-02	1.39e-02	4.17e-02	1.004
## 79	-9.83e-03	-6.47e-02	-2.20e-02	-5.39e-03	4.63e-03	9.16e-02	0.989
## 80	1.47e-04	4.92e-04	-7.56e-04	-6.10e-04	-8.35e-05	-1.42e-03	1.005
## 81	-3.12e-03	5.28e-03	-2.46e-02	3.93e-03	7.65e-03	5.75e-02	1.004
## 82	-4.06e-03	1.01e-02	-5.14e-03	-7.21e-03	4.49e-03	-2.61e-02	1.003
## 83	-7.74e-04	-6.24e-03	3.72e-03	7.77e-03	-2.22e-03	2.43e-02	1.005
## 84	1.77e-03	2.82e-04	-1.32e-02	1.95e-02	1.74e-02	6.59e-02	1.001
## 85	6.82e-04	-4.18e-03	6.59e-04	-2.64e-03	2.70e-03	-8.80e-03	1.007
## 86	4.67e-03	4.52e-04	-3.91e-03	-2.75e-03	5.30e-03	-2.50e-02	1.002
## 87	2.68e-02	-2.33e-03	-2.97e-02	5.43e-02	-6.39e-03	-9.38e-02	0.999
## 88	-1.12e-05	-7.11e-05	1.20e-04	8.54e-05	-6.36e-05	2.50e-04	1.006
## 89	2.97e-04	2.80e-03	-3.06e-03	-2.82e-03	-1.37e-03	-8.52e-03	1.005
## 90	3.94e-04	3.24e-03	1.12e-03	-2.66e-03	5.82e-04	-8.45e-03	1.007
## 91	-3.19e-04	-6.37e-03	1.20e-02	1.10e-02	-3.37e-03	1.97e-02	1.005
## 92	-2.28e-03	-4.02e-03	2.26e-03	-7.89e-03	-5.24e-04	-2.25e-02	1.005
## 93	-1.89e-02	-7.57e-02	-1.81e-02	7.81e-03	-1.33e-03	1.23e-01	0.992
## 94	-2.53e-04	-1.19e-04	-3.85e-04	1.52e-04	-4.73e-05	1.08e-03	1.007
## 95	1.81e-03	3.52e-03	9.24e-04	-9.70e-04	4.15e-04	-8.22e-03	1.006
## 96	-1.06e-02	2.61e-02	-5.96e-02	5.55e-03	1.14e-02	1.29e-01	0.998
## 97	-3.20e-03	2.71e-03	7.02e-04	-5.92e-03	4.57e-03	-1.79e-02	1.004
## 98	1.05e-02	-4.05e-03	1.64e-03	2.22e-02	-1.63e-02	-5.34e-02	0.998

## 99	-1.22e-03	-4.87e-04	-2.24e-03	7.52e-04	-3.43e-05	6.47e-03	1.006
## 100	2.06e-04	4.22e-04	-5.54e-04	-8.94e-04	4.99e-04	-2.02e-03	1.006
## 101	1.54e-04	-2.25e-03	3.22e-03	-4.16e-04	1.28e-03	-5.58e-03	1.007
## 102	-9.50e-03	-4.82e-04	-1.99e-04	-9.88e-04	8.43e-03	4.77e-02	1.005
## 103	2.43e-03	1.42e-02	-8.31e-02	3.39e-03	2.63e-03	1.22e-01	0.994
## 104	-2.68e-02	1.37e-02	-1.24e-02	2.20e-02	-1.07e-02	1.16e-01	1.006
## 105	3.63e-03	-3.91e-02	3.32e-02	-1.71e-02	6.48e-04	-1.01e-01	0.993
## 106	-4.02e-03	2.22e-03	8.06e-05	-2.52e-03	6.53e-03	1.20e-02	1.011
## 107	-4.70e-03	1.03e-03	-3.53e-04	4.16e-03	4.79e-04	2.41e-02	1.006
## 108	-2.33e-03	8.06e-03	-6.91e-03	1.01e-04	-3.73e-03	1.67e-02	1.007
## 109	3.34e-03	-7.10e-03	9.18e-03	-5.12e-03	1.33e-03	-2.37e-02	1.010
## 110	5.99e-04	1.23e-03	-9.68e-03	7.91e-04	-1.47e-03	-3.82e-02	1.001
## 111	-5.77e-03	-1.41e-03	-8.41e-03	3.04e-03	-5.20e-03	3.36e-02	1.004
## 112	4.26e-03	-2.66e-02	1.59e-02	-2.57e-02	-3.87e-03	7.93e-02	0.998
## 113	-3.95e-03	3.24e-03	-1.83e-03	2.15e-03	-3.29e-04	-1.03e-02	1.010
## 114	-1.56e-02	-6.46e-03	1.19e-02	1.72e-02	2.57e-03	-6.02e-02	1.001
## 115	7.04e-03	-9.58e-03	-2.83e-03	2.00e-02	1.24e-02	-6.09e-02	0.999
## 116	1.20e-01	-2.31e-01	2.47e-02	-1.76e-01	-1.11e-02	3.62e-01	0.956
## 117	-6.36e-04	-1.21e-03	1.22e-03	-4.21e-03	-8.45e-04	6.63e-03	1.007
## 118	3.38e-03	-1.53e-02	1.97e-02	-5.76e-03	-5.78e-03	3.40e-02	1.007
## 119	1.32e-02	1.81e-02	-1.02e-01	3.06e-02	2.07e-02	-2.09e-01	0.974
## 120	2.99e-02	-4.63e-02	-4.16e-02	3.17e-02	-1.36e-02	-1.61e-01	0.973
## 121	1.25e-02	-6.93e-03	7.88e-03	-6.25e-03	1.20e-03	3.93e-02	1.006
## 122	5.68e-02	-1.59e-01	-3.95e-02	-5.71e-02	5.38e-02	3.05e-01	0.965
## 123	2.87e-02	-3.00e-03	1.30e-02	-1.44e-02	1.81e-02	8.86e-02	1.002
## 124	-1.12e-02	1.48e-02	-4.81e-02	2.47e-02	-3.88e-02	-1.09e-01	0.965
## 125	5.32e-03	3.62e-02	1.17e-02	6.31e-02	1.07e-02	-1.55e-01	0.993
## 126	-3.64e-03	6.17e-03	1.50e-03	5.07e-03	-3.50e-04	-1.31e-02	1.006
## 127	-6.63e-04	-6.87e-04	1.95e-03	-4.40e-04	3.89e-05	3.46e-03	1.006
## 128	1.97e-02	-1.78e-02	-2.17e-03	-6.10e-03	8.04e-03	3.66e-02	1.005
## 129	1.58e-05	8.95e-05	5.72e-06	1.47e-04	6.53e-05	-4.36e-04	1.006
## 130	2.03e-03	2.74e-03	9.17e-04	1.20e-02	1.05e-03	-2.66e-02	1.005
## 131	6.30e-04	6.96e-03	1.56e-02	8.11e-03	2.56e-03	-2.41e-02	1.005
## 132	-1.04e-05	-2.25e-04	5.21e-05	-6.07e-05	5.98e-05	4.05e-04	1.006
## 133	2.71e-03	3.53e-03	6.42e-03	4.57e-03	1.28e-03	-1.17e-02	1.006
## 134	1.77e-03	4.82e-03	-4.07e-04	1.39e-03	4.60e-03	-1.49e-02	1.005
## 135	3.17e-04	8.47e-04	2.19e-03	1.35e-03	1.65e-03	-6.84e-03	1.005
## 136	1.19e-05	-6.43e-04	1.19e-03	4.13e-04	2.65e-03	-7.89e-03	1.006
## 137	-5.53e-04	-7.25e-04	-1.98e-03	-1.43e-03	-5.70e-04	3.78e-03	1.006
## 138	1.46e-03	1.22e-02	-7.50e-03	4.46e-03	2.84e-03	-1.95e-02	1.005
## 139	-1.46e-03	1.31e-03	3.68e-04	8.35e-04	-4.69e-04	-7.83e-03	1.008
## 140	-3.36e-04	-2.22e-03	1.50e-03	1.90e-03	1.04e-03	-1.12e-02	1.016
## 141	-1.64e-03	-2.02e-03	-1.98e-04	-2.24e-03	4.33e-03	-1.91e-02	1.007
## 142	1.11e-03	-3.30e-04	3.37e-05	1.05e-04	-9.51e-05	2.07e-03	1.008
## 143	-2.22e-03	-9.31e-06	1.79e-03	1.63e-05	-3.23e-04	-8.86e-03	1.007
## 144	-6.25e-03	1.84e-03	-1.83e-03	-2.10e-03	-1.54e-03	-8.64e-03	1.008
## 145	-1.20e-02	7.19e-03	4.46e-03	2.04e-03	-2.08e-03	-2.68e-02	1.009
## 146	3.02e-03	5.60e-03	-5.86e-03	-3.49e-04	-6.27e-03	2.90e-02	1.006
## 147	1.00e-02	-8.16e-03	-1.53e-03	-5.85e-03	1.55e-03	2.97e-02	1.017
## 148	-2.47e-03	-2.37e-02	3.22e-03	-1.34e-02	1.66e-02	-5.83e-02	1.003
## 149	-3.19e-03	-4.06e-03	5.61e-03	2.72e-03	1.46e-03	-3.48e-02	1.008
## 150	-1.08e-02	1.41e-02	-4.92e-03	-1.30e-02	-3.96e-03	8.11e-02	1.030
## 151	-1.83e-03	-4.07e-03	6.30e-03	3.34e-03	3.57e-03	-1.87e-02	1.007
## 152	-6.39e-04	-7.65e-03	3.93e-03	1.63e-03	5.48e-03	-2.52e-02	1.009

## 153	-3.30e-03	-2.08e-03	5.59e-03	-1.71e-03	1.78e-03	-2.16e-02	1.005
## 154	-1.41e-02	-1.42e-03	2.93e-03	3.05e-04	-2.46e-03	-1.80e-02	1.008
## 155	2.01e-03	-1.67e-03	7.62e-04	1.46e-03	-1.18e-04	1.01e-02	1.006
## 156	-9.34e-04	7.97e-03	-3.58e-04	-1.14e-03	-3.53e-03	2.78e-02	1.017
## 157	4.05e-04	5.68e-03	-6.78e-03	-1.53e-03	-4.89e-03	1.84e-02	1.007
## 158	-1.11e-02	4.58e-04	2.51e-03	1.45e-03	1.50e-03	-1.60e-02	1.010
## 159	1.35e-03	5.31e-04	-2.93e-03	-7.78e-04	-2.34e-03	9.92e-03	1.006
## 160	-3.22e-02	1.61e-02	1.71e-03	-6.01e-03	-3.63e-03	-3.95e-02	1.009
## 161	-8.62e-05	6.82e-03	-2.50e-02	-1.44e-02	-1.22e-02	3.62e-02	1.020
## 162	1.18e-02	-9.81e-04	-2.67e-04	2.82e-03	3.85e-03	1.56e-02	1.010
## 163	-5.94e-02	8.03e-03	-7.43e-03	-3.29e-02	-5.40e-02	-1.23e-01	1.002
## 164	-5.15e-02	2.68e-02	-4.09e-03	-2.22e-02	-2.07e-02	-8.00e-02	1.005
## 165	3.08e-03	-3.45e-04	1.07e-04	9.86e-04	2.93e-04	3.92e-03	1.013
## 166	2.71e-01	-1.08e-01	5.22e-02	7.17e-02	-1.60e-01	3.73e-01	0.984
## 167	-1.16e-02	-9.39e-03	2.72e-02	-6.85e-03	-3.01e-02	-7.70e-02	1.006
## 168	5.52e-03	-1.01e-02	8.31e-03	2.52e-03	-9.18e-04	1.91e-02	1.006
## 169	-1.60e-03	1.65e-03	-2.42e-04	-1.63e-03	-7.59e-04	-3.65e-03	1.009
## 170	-4.27e-02	3.44e-02	-6.69e-03	-1.78e-02	4.72e-02	-1.09e-01	1.010
## 171	-1.44e-02	2.67e-02	-2.16e-02	-8.95e-03	3.54e-02	-6.16e-02	1.008
## 172	2.22e-03	1.40e-03	7.04e-04	-5.60e-03	1.65e-03	2.44e-02	1.006
## 173	-6.43e-02	1.32e-02	2.39e-02	-1.68e-02	-3.04e-02	-1.10e-01	1.000
## 174	7.24e-04	-1.04e-02	-1.66e-02	-2.46e-02	2.48e-02	-8.47e-02	1.000
## 175	-2.23e-02	1.34e-02	-1.06e-02	-6.03e-03	3.03e-02	-6.61e-02	1.006
## 176	4.98e-02	-3.55e-02	3.99e-02	6.45e-02	4.36e-02	-2.39e-01	0.991
## 177	6.91e-02	-1.73e-03	-2.83e-02	-1.69e-03	-1.86e-02	7.95e-02	1.053
## 178	-9.13e-03	1.15e-03	1.06e-03	-2.86e-03	-4.16e-03	-1.84e-02	1.007
## 179	3.26e-03	-6.98e-03	5.63e-03	2.23e-03	-8.22e-03	1.46e-02	1.011
## 180	-1.54e-02	4.49e-03	1.45e-03	-1.28e-03	8.37e-03	-1.94e-02	1.017
## 181	7.89e-02	-1.18e-03	-3.88e-02	1.11e-02	1.47e-02	1.04e-01	1.014
## 182	-3.09e-02	-5.13e-05	5.74e-03	-8.42e-03	1.97e-03	-4.78e-02	1.005
## 183	2.51e-03	-1.20e-02	1.30e-02	1.58e-02	-2.20e-02	-7.40e-02	1.002
## 184	2.22e-01	-6.09e-02	-3.03e-02	2.42e-02	-5.77e-02	2.47e-01	1.049
## 185	-4.66e-02	5.36e-02	6.11e-03	1.82e-02	-6.34e-05	-8.81e-02	1.001
## 186	1.58e-03	-1.76e-03	5.19e-04	-2.09e-04	-3.00e-03	6.34e-03	1.011
## 187	-2.27e-02	4.15e-02	-1.37e-02	-1.89e-02	3.69e-02	-8.82e-02	1.007
## 188	-5.30e-02	2.16e-02	1.49e-03	-2.03e-03	-8.15e-03	-6.68e-02	1.015
## 189	-4.47e-02	-5.45e-02	2.95e-03	3.19e-03	-9.81e-02	-2.03e-01	0.980
## 190	5.58e-02	-1.45e-02	-3.15e-02	-1.39e-02	1.12e-02	9.82e-02	1.009
## 191	-1.53e-02	-3.03e-03	6.26e-04	-6.91e-03	-4.63e-03	-1.83e-02	1.014
## 192	7.71e-06	1.98e-04	3.21e-05	-4.60e-05	1.88e-05	-3.44e-04	1.007
## 193	2.59e-05	-5.35e-04	8.23e-03	-6.41e-04	-2.49e-03	-1.38e-02	1.006
## 194	-8.20e-02	1.57e-02	-2.54e-03	-2.70e-02	1.60e-02	-9.01e-02	1.053
## 195	-7.73e-04	1.76e-02	7.12e-03	-1.06e-02	-5.69e-03	-4.14e-02	1.003
## 196	3.66e-05	2.45e-02	-5.33e-03	1.97e-03	-7.01e-03	-4.85e-02	0.999
## 197	-5.06e-04	2.94e-02	-3.56e-03	-5.35e-03	2.89e-03	-3.94e-02	1.002
## 198	-1.52e-02	1.21e-02	1.62e-02	-1.14e-02	-1.52e-02	-6.52e-02	1.001
## 199	-1.12e-04	4.31e-03	-2.57e-03	-6.50e-03	-3.36e-03	-1.45e-02	1.006
## 200	-1.58e-03	6.32e-03	-2.72e-03	-2.63e-03	-5.17e-03	-2.28e-02	1.004
## 201	2.86e-03	-9.09e-04	-4.02e-03	7.28e-04	-2.31e-02	2.74e-02	1.007
## 202	8.93e-03	1.18e-03	5.27e-02	4.60e-02	-2.16e-02	-1.59e-01	1.006
## 203	-3.97e-03	5.31e-02	-1.90e-02	1.55e-02	-1.49e-03	8.95e-02	0.998
## 204	1.54e-03	-3.44e-03	1.83e-03	-3.04e-03	1.90e-03	-1.14e-02	1.006
## 205	-1.24e-02	-5.14e-03	7.32e-03	-1.14e-04	5.76e-03	3.96e-02	1.004
## 206	-9.16e-03	2.89e-02	8.28e-03	1.50e-02	-1.12e-02	6.08e-02	1.004

## 207	-4.40e-03	1.92e-02	-1.19e-02	-2.82e-03	-3.92e-03	3.30e-02	1.007
## 208	-9.80e-04	-1.47e-02	-9.06e-04	2.75e-03	6.85e-03	5.36e-02	1.007
## 209	-1.75e-02	2.63e-02	-6.82e-02	6.78e-03	-1.02e-01	2.11e-01	0.983
## 210	-1.20e-02	2.66e-02	5.03e-03	5.17e-03	-1.10e-02	7.75e-02	1.018
## 211	-2.43e-03	1.07e-02	3.45e-03	-8.07e-03	-1.75e-04	2.90e-02	1.004
## 212	-3.33e-03	8.31e-03	-9.40e-03	4.73e-03	2.12e-02	4.62e-02	1.005
## 213	1.05e-03	-7.48e-04	4.15e-03	6.17e-03	-5.38e-05	-1.07e-02	1.005
## 214	-2.29e-04	-1.41e-02	-1.14e-02	-1.65e-02	-1.91e-03	-4.04e-02	1.007
## 215	-1.67e-03	-8.83e-03	7.46e-03	9.72e-03	3.37e-02	8.48e-02	0.999
## 216	8.91e-03	3.83e-02	-6.06e-02	-5.66e-04	1.34e-02	1.01e-01	1.004
## 217	3.16e-03	8.57e-04	6.90e-03	-8.57e-03	-5.64e-03	-2.78e-02	1.014
## 218	-9.30e-05	6.45e-04	-2.84e-04	2.18e-04	-1.74e-05	-1.12e-03	1.007
## 219	-1.01e-02	5.59e-02	7.47e-03	3.45e-02	-2.09e-02	1.09e-01	0.995
## 220	-6.53e-03	-1.24e-02	-8.07e-03	-2.59e-02	2.37e-02	6.69e-02	1.004
## 221	1.39e-03	1.75e-02	-4.96e-03	1.71e-02	1.08e-02	5.80e-02	1.008
## 222	3.83e-04	-1.30e-03	-5.19e-03	-6.31e-03	-7.96e-03	-1.62e-02	1.007
## 223	1.42e-03	-4.27e-03	-1.41e-03	2.35e-03	1.49e-03	-1.49e-02	1.005
## 224	-5.03e-03	-6.11e-04	-3.20e-03	-8.72e-03	1.05e-02	3.33e-02	1.001
## 225	-4.40e-03	1.49e-03	-1.79e-02	-4.70e-03	-3.33e-02	5.30e-02	1.008
## 226	-1.54e-03	1.21e-03	-1.08e-03	3.94e-03	4.38e-03	2.34e-02	1.004
## 227	-9.70e-04	3.64e-03	3.50e-03	2.69e-03	-1.02e-03	7.77e-03	1.008
## 228	-1.35e-02	1.06e-02	-2.24e-02	1.66e-02	2.21e-02	6.40e-02	1.007
## 229	-2.57e-03	1.86e-02	-3.60e-03	7.72e-03	-8.07e-04	3.02e-02	1.009
## 230	-4.95e-03	1.63e-02	4.45e-05	3.65e-04	-7.53e-03	4.42e-02	1.008
## 231	-6.07e-03	-1.12e-02	-1.60e-02	2.84e-03	6.33e-03	4.68e-02	1.000
## 232	4.98e-03	-2.77e-03	2.14e-03	1.10e-02	1.47e-03	-2.37e-02	1.006
## 233	4.44e-04	-1.85e-03	8.34e-04	-2.21e-03	-1.72e-03	-4.44e-03	1.007
## 234	-1.13e-03	-1.34e-03	1.18e-03	2.41e-03	-1.26e-03	5.85e-03	1.006
## 235	-2.99e-03	-4.62e-03	5.68e-03	3.29e-03	1.63e-03	2.20e-02	1.006
## 236	1.07e-03	-1.70e-03	-8.49e-04	-7.51e-04	4.85e-04	-6.87e-03	1.005
## 237	-2.05e-02	-9.81e-03	-2.30e-02	-2.38e-02	2.94e-02	1.04e-01	0.984
## 238	-1.56e-02	3.79e-02	-5.39e-02	1.78e-02	4.43e-02	1.36e-01	0.993
## 239	4.73e-05	-3.11e-03	5.17e-04	-1.25e-03	-8.40e-04	1.19e-02	1.004
## 240	-1.20e-02	-1.72e-02	1.75e-02	1.50e-02	2.41e-02	6.54e-02	0.998
## 241	-9.87e-03	1.84e-02	-1.92e-02	-1.86e-03	1.06e-02	5.60e-02	1.005
## 242	1.14e-03	1.38e-02	-3.46e-07	2.96e-03	-3.77e-03	2.36e-02	1.006
## 243	8.27e-03	4.96e-02	-5.32e-03	1.58e-02	-1.63e-02	7.93e-02	1.006
## 244	-4.02e-03	6.06e-03	2.79e-03	2.52e-04	2.86e-03	2.62e-02	1.009
## 245	-9.15e-04	-1.30e-03	1.46e-02	1.52e-02	6.47e-03	2.53e-02	1.016
## 246	-2.10e-02	-6.53e-04	5.08e-03	1.14e-02	2.92e-02	7.81e-02	0.991
## 247	-1.41e-02	-1.52e-02	-6.02e-03	-2.61e-03	-9.44e-03	5.63e-02	0.993
## 248	-1.80e-03	-2.48e-03	-5.78e-03	-2.18e-03	1.80e-03	1.39e-02	1.004
## 249	-5.22e-04	-6.73e-04	-5.66e-03	-4.31e-03	1.83e-03	1.23e-02	1.007
## 250	-2.76e-02	-8.93e-03	-1.64e-02	2.59e-02	5.16e-02	1.43e-01	0.981
## 251	2.45e-04	1.65e-04	2.52e-04	3.86e-04	-2.04e-04	-1.13e-03	1.005
## 252	-8.00e-03	1.77e-02	-1.92e-04	1.01e-02	-6.50e-03	3.39e-02	1.008
## 253	-2.45e-03	-1.33e-02	1.00e-03	-1.99e-03	-2.58e-03	1.96e-02	1.013
## 254	-2.09e-02	-1.82e-01	3.43e-02	5.30e-02	-1.92e-01	3.70e-01	0.965
## 255	-2.65e-02	-3.08e-02	7.98e-03	-5.67e-02	6.30e-03	1.40e-01	0.999
## 256	3.86e-03	9.35e-02	1.80e-02	1.87e-02	-5.90e-02	-3.76e-01	0.989
## 257	-7.75e-03	1.15e-02	2.73e-03	1.10e-02	-4.95e-03	4.03e-02	1.005
## 258	2.14e-03	5.52e-02	-3.66e-02	-2.00e-03	9.45e-03	-7.40e-02	1.001
## 259	-8.64e-04	6.53e-03	1.57e-03	-1.28e-04	1.05e-02	-1.76e-02	1.010
## 260	2.27e-05	2.02e-05	5.54e-04	1.63e-05	6.63e-04	-2.33e-03	1.011

## 261	-1.43e-02	-4.98e-02	1.36e-02	9.60e-03	2.41e-02	9.54e-02	1.005
## 262	-6.60e-03	3.43e-02	1.48e-02	1.41e-02	9.93e-04	-6.18e-02	1.008
## 263	-5.23e-03	-6.51e-03	-6.04e-03	-1.00e-03	1.21e-03	3.00e-02	1.008
## 264	1.08e-02	7.77e-02	8.18e-02	4.12e-02	-7.04e-02	-3.30e-01	0.980
## 265	2.11e-02	-9.66e-02	6.85e-02	2.14e-02	1.46e-02	1.40e-01	1.003
## 266	-2.14e-03	-2.64e-03	-3.40e-03	1.48e-03	3.91e-03	1.33e-02	1.009
## 267	-4.74e-03	5.12e-03	-4.44e-03	-1.23e-02	-5.01e-03	3.18e-02	1.007
## 268	-9.02e-03	-1.97e-02	-6.21e-04	2.07e-03	3.12e-03	4.43e-02	1.006
## 269	-1.07e-03	-3.03e-03	-2.62e-04	2.56e-05	2.00e-03	7.04e-03	1.008
## 270	2.10e-03	-2.16e-02	1.90e-03	-8.36e-04	-1.79e-02	3.32e-02	1.014
## 271	6.24e-04	3.17e-02	-6.46e-03	1.01e-02	4.08e-02	-1.14e-01	1.015
## 272	-5.01e-04	2.99e-03	-5.83e-04	2.37e-03	-1.77e-03	6.56e-03	1.006
## 273	-1.55e-02	-4.33e-02	1.53e-02	1.37e-02	1.33e-02	1.02e-01	1.002
## 274	7.31e-05	7.63e-03	1.86e-03	-6.64e-03	6.98e-03	-2.14e-02	1.019
## 275	-5.06e-03	-2.52e-02	-6.28e-03	-5.50e-03	9.09e-03	3.84e-02	1.012
## 276	-2.27e-04	-2.15e-03	7.87e-04	-3.72e-04	5.22e-04	2.81e-03	1.008
## 277	-1.36e-03	-1.26e-02	-1.33e-02	-9.96e-03	-5.43e-03	2.96e-02	1.006
## 278	9.45e-05	2.80e-02	1.06e-02	1.55e-02	-4.59e-03	-5.02e-02	1.004
## 279	-1.37e-02	2.20e-02	6.67e-04	1.78e-02	4.13e-03	6.61e-02	1.004
## 280	-8.51e-03	-3.61e-03	1.02e-03	4.65e-04	-6.82e-03	3.05e-02	1.006
## 281	-9.89e-04	1.10e-02	-8.48e-03	4.49e-03	5.49e-04	-1.96e-02	1.011
## 282	-1.04e-01	1.83e-02	2.40e-01	2.19e-01	-1.96e-02	-1.34e+00	0.890
## 283	-7.95e-03	-8.74e-02	-1.14e-02	-4.36e-02	-9.63e-03	1.10e-01	0.999
## 284	-4.40e-02	-5.57e-03	-8.11e-03	-9.02e-03	-2.22e-03	-5.09e-02	1.025
## 285	-4.22e-03	-2.19e-02	1.89e-02	1.68e-02	9.36e-03	5.27e-02	1.002
## 286	-8.62e-03	-3.98e-04	-2.58e-03	-3.31e-03	1.87e-05	-1.05e-02	1.007
## 287	-1.47e-02	7.66e-03	-5.14e-03	1.25e-02	8.05e-04	-3.46e-02	1.001
## 288	-8.63e-04	4.27e-03	2.38e-04	9.36e-04	-2.91e-03	-1.25e-02	1.006
## 289	2.36e-04	-6.05e-03	6.67e-03	1.80e-03	-7.11e-03	3.27e-02	1.004
## 290	1.85e-02	4.37e-03	-2.85e-02	-2.71e-04	7.56e-03	5.02e-02	1.004
## 291	-5.43e-04	-2.69e-05	-7.73e-04	-2.60e-03	-2.28e-03	-5.23e-03	1.006
## 292	-6.63e-03	-1.94e-03	3.50e-04	-8.69e-04	-1.78e-04	-7.32e-03	1.017
## 293	3.96e-03	3.78e-03	-1.01e-02	-7.37e-03	-1.92e-02	-4.30e-02	1.006
## 294	2.00e-02	1.32e-04	4.69e-03	3.25e-03	4.03e-04	2.27e-02	1.017
## 295	1.05e-02	-1.74e-02	3.05e-02	-3.93e-04	-1.07e-02	-7.94e-02	1.006
## 296	7.99e-02	4.06e-03	6.53e-03	9.81e-03	-2.06e-04	8.80e-02	1.015
## 297	-1.80e-03	8.92e-03	-4.51e-03	4.68e-03	-7.67e-03	-3.13e-02	1.006
## 298	3.43e-03	-1.03e-02	-2.33e-02	-2.10e-02	5.80e-03	-6.62e-02	0.998
## 299	-8.65e-03	2.95e-03	1.66e-02	2.25e-03	-1.26e-02	-8.15e-02	1.001
## 300	2.88e-03	2.06e-03	-4.69e-04	1.77e-03	1.08e-03	-2.41e-02	1.015
## 301	1.57e-03	-1.70e-03	2.63e-03	-2.24e-03	-2.83e-03	-7.59e-03	1.006
## 302	4.55e-04	-4.89e-04	-4.90e-04	2.29e-04	-3.64e-03	5.85e-03	1.009
## 303	-4.32e-03	4.34e-03	-1.26e-02	9.38e-03	-3.68e-03	3.28e-02	1.007
## 304	2.35e-04	-1.08e-04	6.20e-04	1.21e-03	7.62e-04	3.32e-03	1.007
## 305	-3.52e-03	-7.58e-03	-1.45e-02	-1.67e-03	4.57e-03	3.55e-02	1.004
## 306	-3.41e-03	-1.22e-02	1.35e-02	1.58e-02	3.32e-03	3.30e-02	1.006
## 307	-1.92e-03	-1.50e-02	2.15e-04	1.05e-02	-8.18e-03	4.04e-02	1.002
## 308	1.07e-03	-2.77e-03	7.60e-03	1.82e-03	1.32e-03	-1.97e-02	1.004
## 309	-7.64e-04	5.74e-03	-4.91e-03	-1.51e-02	-9.81e-03	-2.83e-02	1.006
## 310	8.39e-05	1.62e-03	3.25e-05	9.01e-05	3.24e-03	9.09e-03	1.006
## 311	-8.43e-03	-4.90e-02	-1.43e-02	1.11e-02	-8.42e-02	1.35e-01	1.001
## 312	2.56e-03	1.72e-02	1.34e-02	1.77e-02	1.55e-02	-6.59e-02	0.997
## 313	1.52e-03	-1.29e-03	-2.63e-03	-1.22e-02	-7.11e-03	-2.15e-02	1.004
## 314	-8.62e-03	9.53e-03	-2.32e-02	-3.82e-03	9.99e-03	4.56e-02	1.001

## 315	9.66e-04	1.00e-03	8.54e-04	-9.54e-04	-3.91e-04	-4.59e-03	1.009
## 316	1.80e-04	-4.15e-04	-3.25e-03	1.09e-03	1.90e-03	1.25e-02	1.005
## 317	8.11e-04	2.09e-02	1.81e-02	-8.00e-03	-9.23e-03	-6.36e-02	1.005
## 318	8.96e-05	-7.84e-05	-5.30e-04	-9.58e-04	-1.61e-04	-1.72e-03	1.006
## 319	2.11e-03	-9.98e-03	-6.01e-04	9.23e-03	1.52e-02	5.08e-02	1.006
## 320	-2.57e-04	-1.22e-02	6.23e-04	2.29e-03	5.42e-03	2.70e-02	1.009
## 321	2.21e-03	2.98e-03	7.14e-03	-6.63e-03	-8.03e-03	-2.67e-02	1.012
## 322	-1.01e-03	-5.17e-03	-4.76e-04	4.71e-03	2.02e-03	1.75e-02	1.004
## 323	1.45e-03	3.28e-03	5.90e-03	-3.45e-03	-2.52e-03	-1.47e-02	1.006
## 324	-1.34e-03	-5.27e-03	4.28e-03	-1.55e-03	4.94e-03	1.78e-02	1.005
## 325	-2.37e-03	2.03e-03	4.08e-03	-8.33e-03	-1.26e-03	-2.53e-02	1.003
## 326	3.14e-03	4.52e-02	5.03e-03	-1.38e-02	-8.66e-03	-1.24e-01	0.997
## 327	6.72e-03	2.60e-03	-2.39e-05	2.54e-02	-2.56e-02	7.79e-02	1.007
## 328	1.86e-04	5.62e-03	-1.41e-03	1.85e-03	-6.32e-04	1.36e-02	1.006
## 329	-3.90e-04	-1.24e-02	1.94e-02	-2.20e-03	1.00e-03	-3.79e-02	1.008
## 330	1.12e-03	-3.54e-03	-8.74e-04	6.91e-03	8.25e-04	1.50e-02	1.005
## 331	-1.39e-03	4.59e-03	-2.55e-03	2.87e-03	-4.10e-03	1.34e-02	1.006
## 332	5.86e-04	9.78e-04	-3.43e-03	-3.42e-03	-1.76e-03	-5.83e-03	1.009
## 333	8.40e-04	1.07e-03	1.56e-02	6.46e-03	-6.06e-03	-3.57e-02	1.007
## 334	9.91e-04	2.33e-03	1.12e-03	2.80e-04	6.66e-04	-8.87e-03	1.005
## 335	-5.56e-04	8.63e-03	-2.01e-02	-1.08e-02	-9.71e-03	-4.36e-02	1.003
## 336	-5.21e-04	-1.21e-03	-2.88e-03	-3.12e-04	2.79e-04	4.63e-03	1.006
## 337	-6.55e-03	-1.97e-02	1.37e-02	2.29e-02	1.37e-02	7.87e-02	1.000
## 338	1.31e-03	-3.39e-03	7.44e-03	-3.91e-03	-5.53e-03	-1.82e-02	1.008
## 339	-1.32e-02	-5.88e-02	3.88e-02	3.50e-02	8.84e-03	1.17e-01	1.000
## 340	3.02e-03	-3.95e-03	-3.10e-04	-9.40e-03	1.55e-03	-2.42e-02	1.003
## 341	-3.35e-03	2.14e-03	8.62e-03	7.69e-03	5.00e-03	2.59e-02	1.005
## 342	-6.42e-03	-1.03e-02	4.45e-03	3.25e-02	-8.05e-03	7.56e-02	0.998
## 343	8.46e-04	-3.14e-03	-7.25e-03	-9.59e-03	-9.08e-03	-2.39e-02	1.005
## 344	4.87e-03	-7.80e-03	-7.49e-03	-9.64e-03	7.63e-03	5.53e-02	1.010
## 345	7.09e-05	2.00e-04	-3.10e-03	-9.88e-03	-6.25e-03	-1.77e-02	1.005
## 346	4.03e-03	2.10e-02	9.79e-03	3.53e-02	2.37e-02	6.16e-02	1.002
## 347	5.10e-03	6.76e-05	5.05e-03	4.75e-04	3.96e-03	-2.87e-02	1.005
## 348	8.57e-04	-1.52e-02	-8.91e-03	-1.93e-02	-1.46e-02	-4.04e-02	1.005
## 349	-1.70e-04	4.58e-04	1.55e-04	-1.77e-03	-2.69e-03	-6.96e-03	1.008
## 350	-2.68e-04	4.79e-04	1.28e-03	3.17e-04	-1.18e-03	-5.17e-03	1.011
## 351	5.53e-04	-1.90e-03	-9.54e-03	3.16e-03	-1.46e-02	-4.31e-02	1.004
## 352	1.50e-04	-3.21e-03	-2.23e-03	-7.21e-03	-2.93e-02	4.72e-02	1.009
## 353	-1.36e-03	-2.28e-03	9.51e-03	7.18e-03	1.43e-03	2.29e-02	1.003
## 354	-2.92e-04	-6.28e-03	4.44e-03	-3.87e-03	2.50e-03	-1.34e-02	1.007
## 355	4.41e-04	1.68e-03	-3.30e-03	4.80e-04	1.52e-03	7.90e-03	1.010
## 356	1.23e-03	-9.77e-04	-2.02e-03	-2.58e-04	2.99e-03	9.87e-03	1.010
## 357	-1.51e-03	5.33e-03	2.10e-03	-6.36e-03	-3.65e-03	-1.69e-02	1.005
## 358	2.65e-04	-4.35e-04	5.61e-04	1.45e-03	3.09e-04	5.82e-03	1.005
## 359	1.96e-04	-3.41e-04	3.83e-03	3.92e-03	1.60e-03	6.26e-03	1.006
## 360	-2.08e-03	-2.31e-03	1.21e-03	1.69e-03	1.83e-03	1.68e-02	1.006
## 361	-1.11e-04	-5.52e-03	2.34e-02	2.08e-02	1.99e-02	8.61e-02	1.004
## 362	1.63e-04	-2.59e-03	2.24e-03	-5.97e-04	-1.23e-03	-1.05e-02	1.005
## 363	4.75e-05	-2.98e-04	-9.47e-05	-2.90e-04	-1.95e-04	-8.59e-04	1.005
## 364	6.96e-03	-3.36e-03	1.00e-02	8.23e-03	4.36e-03	1.79e-02	1.004
## 365	3.28e-03	2.53e-03	5.39e-03	-3.13e-03	2.50e-04	-1.90e-02	1.008
## 366	-2.35e-04	7.10e-03	-1.71e-03	-7.27e-03	-1.18e-02	-2.97e-02	1.007
## 367	2.78e-04	-2.20e-03	-1.51e-03	-1.15e-03	-2.84e-03	-8.98e-03	1.006
## 368	-3.35e-03	-1.11e-03	-5.31e-03	-1.30e-02	-8.52e-03	-3.98e-02	1.005

## 369	-8.52e-04	7.95e-04	2.46e-03	3.79e-03	-3.34e-03	1.10e-02	1.006
## 370	-4.13e-03	3.09e-03	5.03e-03	4.96e-03	3.58e-03	2.42e-02	1.004
## 371	1.12e-02	1.04e-02	1.18e-02	-5.27e-04	-7.16e-03	-4.19e-02	1.003
## 372	5.93e-03	1.77e-02	1.56e-03	-6.91e-03	2.83e-03	-3.55e-02	1.003
## 373	-3.58e-03	7.79e-03	-6.76e-04	-8.43e-03	-2.70e-03	-2.33e-02	1.005
## 374	-4.97e-04	2.11e-03	3.95e-05	-1.15e-03	2.13e-04	-4.64e-03	1.006
## 375	1.61e-04	-1.10e-03	-1.76e-03	-2.19e-04	-2.37e-04	3.31e-03	1.008
## 376	-3.13e-03	2.27e-02	3.09e-03	-3.20e-03	-3.33e-03	-4.09e-02	1.003
## 377	-2.83e-03	-1.05e-03	2.94e-03	-1.12e-03	1.30e-03	-9.08e-03	1.006
## 378	-3.00e-03	7.39e-03	1.01e-03	-3.97e-03	-5.77e-04	-1.59e-02	1.006
## 379	-3.43e-03	9.51e-03	-7.26e-03	-5.89e-03	1.11e-03	-2.25e-02	1.004
## 380	-6.30e-04	5.99e-03	-5.61e-03	-5.65e-03	-3.49e-03	-1.20e-02	1.005
## 381	-2.40e-03	1.04e-02	-3.95e-03	-5.20e-03	-5.20e-03	-2.22e-02	1.004
## 382	-1.16e-03	8.45e-04	7.24e-04	-7.38e-04	5.44e-04	-5.93e-03	1.005
## 383	-1.76e-04	1.65e-03	-2.01e-03	-7.60e-04	3.99e-04	-4.48e-03	1.006
## 384	1.23e-03	3.26e-04	-1.02e-03	-9.87e-04	1.79e-04	7.92e-03	1.008
## 385	-3.57e-03	1.72e-02	1.47e-02	-1.28e-02	-1.06e-02	-5.78e-02	0.996
## 386	3.06e-04	3.63e-04	-1.17e-02	-1.45e-02	2.01e-04	-3.70e-02	1.006
## 387	-1.83e-02	9.34e-03	-2.50e-03	-1.11e-02	-1.90e-02	-7.56e-02	1.009
## 388	3.73e-04	-3.62e-03	-1.18e-03	-3.90e-03	-1.26e-03	-1.18e-02	1.004
## 389	3.31e-04	-4.36e-04	-3.32e-03	2.68e-03	4.14e-04	6.98e-03	1.006
## 390	7.22e-05	5.42e-04	2.41e-03	-2.55e-04	6.05e-04	-4.94e-03	1.006
## 391	-2.06e-03	1.06e-02	1.52e-03	-6.54e-03	3.47e-04	-2.03e-02	1.005
## 392	-3.03e-02	2.41e-02	-3.59e-03	-1.69e-02	-1.01e-02	-5.29e-02	1.003
## 393	-1.31e-02	-2.72e-02	1.86e-02	2.36e-03	8.33e-03	-5.57e-02	1.009
## 394	-3.49e-02	4.89e-02	1.12e-03	-3.95e-03	-2.61e-03	-8.26e-02	1.016
## 395	-4.32e-04	7.13e-03	3.37e-03	2.76e-04	2.89e-04	-1.31e-02	1.005
## 396	-2.94e-03	1.08e-02	2.14e-04	-8.59e-03	-4.72e-03	-2.48e-02	1.005
## 397	-3.60e-04	4.42e-03	3.08e-03	-2.48e-03	-1.07e-03	-1.26e-02	1.006
## 398	-2.07e-03	5.64e-03	8.38e-03	-1.62e-03	2.12e-03	-1.86e-02	1.005
## 399	-1.33e-03	-5.61e-04	1.30e-04	-7.33e-04	5.93e-05	-1.99e-03	1.007
## 400	-2.22e-03	6.03e-03	-9.11e-03	-7.35e-03	-1.97e-03	-1.55e-02	1.005
## 401	-2.96e-03	-2.39e-03	5.40e-03	-5.61e-04	4.89e-03	1.15e-02	1.006
## 402	-7.01e-05	4.63e-04	3.02e-05	-1.25e-04	-3.59e-05	1.74e-03	1.005
## 403	-1.81e-04	6.09e-04	-3.52e-03	-1.20e-03	1.35e-03	4.66e-03	1.009
## 404	3.59e-04	3.97e-03	-3.62e-04	-9.33e-04	1.21e-03	8.51e-03	1.005
## 405	-4.21e-03	9.81e-03	-8.64e-03	-7.99e-03	1.53e-02	2.99e-02	1.005
## 406	2.19e-03	3.98e-04	-6.02e-04	-5.47e-04	9.29e-04	3.66e-03	1.006
## 407	2.39e-03	5.07e-03	7.74e-04	9.74e-03	-1.53e-02	-3.96e-02	1.005
## 408	-3.17e-03	-1.89e-02	9.58e-03	1.74e-03	-6.11e-03	-2.82e-02	1.004
## 409	-1.84e-03	3.27e-04	4.98e-03	4.40e-03	-2.22e-03	-1.03e-02	1.006
## 410	-8.93e-03	-1.32e-03	1.63e-02	1.92e-02	-8.60e-03	-3.34e-02	1.005
## 411	4.00e-03	-2.95e-02	4.74e-02	5.91e-03	-2.09e-02	-6.62e-02	1.002
## 412	3.21e-03	-1.31e-02	2.66e-02	1.84e-02	-1.63e-02	-6.01e-02	1.007
## 413	4.23e-04	7.33e-03	4.84e-03	4.75e-03	-9.53e-04	-2.49e-02	1.005
## 414	2.97e-04	3.42e-03	-7.32e-03	-3.63e-03	3.09e-03	1.01e-02	1.007
## 415	1.58e-02	1.46e-02	-1.31e-02	2.93e-02	-3.39e-02	-6.80e-02	0.993
## 416	3.43e-03	-1.28e-02	9.18e-04	-4.32e-03	-9.96e-03	-3.45e-02	0.999
## 417	1.11e-03	-1.88e-03	-2.76e-03	-1.20e-03	4.52e-03	1.77e-02	1.006
## 418	2.64e-03	9.62e-03	1.12e-02	3.83e-03	-3.73e-03	-2.13e-02	1.005
## 419	4.55e-03	6.38e-03	7.69e-03	2.46e-03	2.15e-02	-4.76e-02	1.009
## 420	1.56e-03	-3.31e-03	-3.34e-03	-2.56e-03	7.89e-04	-1.67e-02	1.009
## 421	2.96e-04	2.66e-04	6.70e-04	-3.61e-04	5.24e-05	-2.88e-03	1.007
## 422	-2.91e-03	-6.07e-02	3.46e-02	1.91e-02	-3.56e-02	-1.14e-01	0.992



## 423	-1.60e-02	3.32e-02	-4.43e-02	-1.33e-02	1.66e-02	6.90e-02	1.002
## 424	-4.48e-03	-3.13e-03	5.20e-03	6.26e-03	-3.37e-03	-1.86e-02	1.004
## 425	8.56e-03	-9.96e-03	-5.98e-03	-8.27e-04	-1.44e-02	-5.15e-02	1.004
## 426	-1.13e-05	-2.11e-03	-4.60e-03	-1.83e-03	6.11e-03	1.77e-02	1.005
## 427	-2.79e-04	2.89e-03	1.47e-02	-1.18e-03	-7.98e-03	-2.68e-02	1.008
## 428	-4.46e-03	-3.96e-03	1.31e-02	1.51e-03	-4.43e-03	-2.54e-02	1.005
## 429	-5.16e-03	-1.33e-03	4.56e-03	1.21e-02	-4.56e-03	-2.30e-02	1.004
## 430	4.16e-04	3.14e-03	5.28e-04	1.86e-03	7.93e-03	-1.10e-02	1.008
## 431	-1.66e-04	-1.15e-03	4.05e-04	-1.06e-03	1.59e-03	-5.48e-03	1.010
## 432	-2.92e-03	3.21e-04	-8.07e-04	-1.32e-03	-4.16e-03	-1.06e-02	1.005
## 433	-1.05e-03	-7.45e-04	2.17e-03	1.45e-03	-1.60e-03	-5.95e-03	1.005
## 434	-1.97e-03	-1.93e-03	4.83e-04	6.78e-04	-1.40e-02	-2.66e-02	1.004
## 435	-2.13e-02	-6.75e-03	3.02e-03	-4.92e-03	2.02e-02	-3.95e-02	1.007
## 436	2.98e-03	-4.38e-03	9.59e-03	-1.10e-02	3.37e-02	-6.66e-02	1.004
## 437	2.71e-03	-2.83e-03	2.26e-04	1.54e-03	-5.15e-03	-2.38e-02	1.004
## 438	-4.64e-04	1.40e-03	-2.92e-03	-2.70e-03	9.82e-04	9.11e-03	1.005
## 439	-1.99e-03	1.71e-03	-3.84e-03	-8.90e-03	5.72e-03	1.63e-02	1.005
## 440	-8.72e-03	6.83e-03	-2.19e-02	-3.50e-02	-4.11e-02	6.34e-02	1.010
## 441	-7.23e-03	-2.24e-02	3.58e-02	2.26e-02	-1.50e-02	-6.49e-02	1.002
## 442	9.16e-03	1.29e-02	3.68e-03	-8.28e-03	-3.67e-02	7.07e-02	1.003
## 443	1.03e-04	-4.78e-03	1.44e-03	-3.95e-04	3.78e-04	-6.06e-03	1.007
## 444	-6.66e-03	1.22e-02	-1.16e-02	-7.08e-03	2.32e-02	-4.25e-02	1.008
## 445	1.48e-03	-1.71e-03	3.88e-03	1.33e-03	1.20e-03	-1.13e-02	1.006
## 446	2.91e-03	1.91e-03	-1.01e-02	-1.77e-03	2.62e-02	-5.08e-02	1.010
## 447	-9.55e-03	-1.54e-02	3.15e-02	-1.26e-02	4.99e-02	-1.13e-01	1.001
## 448	3.99e-03	1.27e-02	5.77e-02	-4.55e-02	-4.10e-02	-1.62e-01	1.000
## 449	7.15e-03	1.29e-03	-1.86e-03	4.54e-03	6.61e-03	1.56e-02	1.006
## 450	-2.44e-03	-4.87e-03	5.56e-03	-2.21e-04	1.06e-02	-1.58e-02	1.008
## 451	1.47e-02	-2.87e-04	-2.58e-06	6.00e-03	1.71e-02	3.73e-02	1.006
## 452	-8.11e-04	9.87e-04	-4.56e-04	2.53e-04	-7.56e-04	-2.48e-03	1.005
## 453	-2.91e-03	-2.91e-02	2.36e-02	1.72e-02	-2.07e-02	-5.99e-02	1.004
## 454	2.84e-03	-1.38e-02	4.65e-03	-6.89e-03	8.39e-04	-3.27e-02	1.006
## 455	-3.30e-04	-1.98e-03	-1.39e-02	-3.53e-03	-3.56e-03	2.31e-02	1.006
## 456	2.68e-02	-2.12e-02	-9.76e-03	-1.72e-02	-5.55e-02	-1.28e-01	1.004
## 457	-3.30e-03	-5.71e-03	-1.46e-03	1.62e-04	-4.66e-03	2.37e-02	1.004
## 458	2.05e-02	-1.42e-02	2.73e-02	2.75e-02	-2.55e-02	9.70e-02	0.991
## 459	1.38e-03	3.98e-03	-2.07e-03	1.47e-03	1.99e-03	-7.12e-03	1.008
## 460	7.71e-03	2.15e-02	-3.83e-03	-7.39e-03	1.43e-02	-4.81e-02	1.004
## 461	1.06e-02	4.34e-02	8.87e-03	3.51e-03	1.34e-02	-7.09e-02	1.004
## 462	1.24e-03	3.64e-02	-5.07e-02	2.14e-02	-3.32e-03	1.01e-01	1.003
## 463	2.23e-03	-3.92e-03	6.81e-03	-3.38e-03	2.67e-04	-1.60e-02	1.009
## 464	1.56e-02	-1.34e-02	3.06e-02	-1.06e-02	7.70e-03	-1.36e-01	0.995
## 465	2.12e-02	-4.05e-03	-5.14e-03	1.86e-02	7.74e-03	-5.73e-02	1.002
## 466	1.40e-02	-8.01e-02	3.56e-02	3.00e-03	-9.62e-03	1.37e-01	0.996
## 467	-9.76e-04	1.23e-03	-1.38e-02	1.99e-02	7.62e-03	6.86e-02	1.005
## 468	1.16e-04	1.44e-03	-4.67e-03	-1.85e-03	2.91e-03	-1.54e-02	1.007
## 469	-3.08e-02	-7.03e-02	-1.81e-02	-6.02e-02	-1.87e-02	1.39e-01	0.987
## 470	2.19e-03	6.78e-03	5.20e-03	-3.51e-03	3.09e-05	-2.14e-02	1.008
## 471	-2.69e-03	-3.20e-03	-1.41e-02	-2.42e-02	-1.30e-02	-5.92e-02	1.006
## 472	4.74e-03	2.84e-02	5.18e-02	1.56e-02	-4.57e-03	1.39e-01	0.993
## 473	-4.18e-04	-9.63e-03	8.98e-03	-3.07e-04	-5.60e-04	-1.75e-02	1.010
## 474	-9.47e-04	-7.01e-02	-5.74e-02	-9.39e-02	-2.11e-02	-1.79e-01	0.993
## 475	1.92e-03	-4.06e-03	3.14e-03	-1.07e-02	1.71e-03	-2.97e-02	1.006
## 476	-1.94e-03	-4.05e-03	-5.10e-02	-9.70e-02	-1.11e-02	-1.60e-01	0.993

## 477	2.96e-03	9.11e-03	-1.86e-03	-9.58e-03	1.73e-03	-3.01e-02	1.003
## 478	-6.22e-03	-1.58e-02	-8.31e-04	-5.48e-02	-1.20e-02	-1.18e-01	0.997
## 479	4.19e-04	2.23e-04	3.69e-05	3.00e-04	1.74e-04	-1.17e-03	1.013
## 480	-1.18e-03	-2.19e-02	1.18e-02	3.67e-03	3.40e-03	-7.19e-02	1.001
## 481	5.85e-03	-3.75e-03	-2.00e-02	-2.03e-03	1.32e-02	-5.27e-02	1.001
## 482	-1.97e-04	9.63e-04	2.43e-03	-8.08e-04	2.24e-03	-8.46e-03	1.006
## 483	-1.48e-02	-1.24e-02	1.22e-02	-2.04e-02	-8.77e-03	5.24e-02	1.007
## 484	1.68e-03	-4.15e-02	-3.32e-02	-9.96e-03	-2.52e-03	1.47e-01	0.990
## 485	2.62e-04	-2.15e-03	1.08e-03	-5.35e-04	-6.16e-05	-3.42e-03	1.009
## 486	2.47e-05	-2.30e-02	1.37e-02	1.95e-02	-9.28e-03	6.07e-02	1.001
## 487	1.20e-02	1.64e-02	5.74e-02	9.59e-03	3.50e-03	-1.10e-01	0.999
## 488	-1.57e-03	-6.73e-03	-3.74e-03	-2.57e-03	-9.22e-04	1.25e-02	1.008
## 489	-2.36e-03	-1.52e-02	2.10e-02	1.24e-02	-5.97e-03	3.18e-02	1.007
## 490	2.73e-03	2.37e-03	-1.36e-02	-1.19e-02	3.96e-03	-2.18e-02	1.008
## 491	1.87e-03	3.57e-03	1.31e-02	-1.53e-02	1.26e-02	-5.41e-02	1.000
## 492	-3.05e-02	1.33e-02	-2.63e-02	-4.38e-02	3.41e-02	1.08e-01	1.020
## 493	-1.29e-03	6.98e-04	-2.05e-03	-1.34e-03	1.90e-03	-9.97e-03	1.009
## 494	-3.31e-03	-3.38e-03	-6.76e-02	-8.68e-02	-2.87e-02	-1.57e-01	0.997
## 495	-4.80e-02	-1.49e-02	-1.39e-02	-3.60e-02	-4.61e-02	1.76e-01	1.004
## 496	5.13e-03	1.98e-02	2.89e-03	3.06e-03	2.01e-02	-5.72e-02	1.002
## 497	-5.20e-04	1.91e-02	-4.30e-03	-2.45e-02	9.19e-03	-7.54e-02	1.004
## 498	5.69e-05	1.50e-03	-3.13e-04	-7.01e-05	3.17e-04	-2.12e-03	1.007
## 499	-3.01e-03	-1.43e-02	-5.10e-03	-8.94e-03	-7.90e-04	-5.00e-02	1.005
## 500	2.06e-05	1.83e-03	5.81e-03	-7.31e-04	2.51e-03	-1.12e-02	1.007
## 501	1.02e-03	-2.06e-03	-1.66e-03	-1.67e-03	-6.67e-05	-5.42e-03	1.005
## 502	1.05e-04	-8.15e-05	1.18e-04	1.09e-04	-1.31e-05	-5.85e-04	1.005
## 503	7.66e-03	1.19e-02	-3.04e-03	-1.60e-03	9.03e-03	2.51e-02	1.002
## 504	-4.63e-03	-3.14e-03	4.30e-03	6.23e-04	8.80e-03	1.72e-02	1.004
## 505	-7.87e-04	3.00e-02	-2.36e-02	1.84e-04	3.57e-02	6.52e-02	0.998
## 506	1.06e-03	-3.71e-04	-4.10e-04	-2.81e-03	2.81e-03	1.47e-02	1.006
## 507	-3.64e-03	8.09e-03	3.68e-03	6.23e-04	-1.59e-03	1.96e-02	1.005
## 508	-1.06e-02	1.34e-02	-2.16e-02	-7.46e-03	1.15e-02	4.34e-02	0.999
## 509	4.21e-02	1.15e-02	-5.08e-03	1.38e-02	-3.96e-02	7.44e-02	1.005
## 510	-3.54e-02	2.25e-02	-4.70e-03	-1.15e-02	2.70e-02	8.34e-02	0.993
## 511	1.54e-03	5.61e-05	-2.37e-03	1.27e-03	-2.24e-03	-7.12e-03	1.006
## 512	-2.83e-03	2.85e-02	-2.14e-02	3.55e-02	-3.91e-02	1.35e-01	0.997
## 513	-4.50e-03	3.33e-04	-1.77e-02	-1.00e-03	5.87e-03	2.51e-02	1.008
## 514	2.80e-02	-2.22e-02	5.16e-03	-3.37e-02	-7.79e-02	-1.52e-01	0.988
## 515	2.94e-03	-4.24e-02	3.05e-02	-1.30e-02	-1.00e-01	1.24e-01	0.996
## 516	-4.35e-04	2.91e-04	1.09e-04	-1.50e-03	6.75e-04	3.74e-03	1.006
## 517	5.61e-03	-2.74e-02	1.70e-02	1.63e-03	-9.77e-03	-3.74e-02	1.003
## 518	-1.39e-02	4.39e-02	-6.94e-02	1.56e-02	4.75e-02	1.20e-01	0.995
## 519	7.72e-03	4.12e-03	-5.51e-03	-3.20e-04	-9.36e-03	-2.13e-02	1.002
## 520	-1.47e-02	-4.55e-03	-2.58e-02	-1.49e-03	2.09e-02	6.55e-02	1.001
## 521	-6.51e-03	9.03e-03	7.62e-03	-3.68e-03	6.10e-03	2.48e-02	1.003
## 522	-4.82e-02	-2.73e-02	3.91e-02	8.02e-02	9.88e-02	2.20e-01	0.976
## 523	-2.50e-02	3.91e-03	5.71e-02	3.29e-02	4.52e-02	9.37e-02	0.991
## 524	-2.63e-02	4.08e-04	3.09e-02	-7.10e-03	-1.28e-01	1.82e-01	0.983
## 525	8.18e-03	-6.33e-03	-2.25e-02	-1.86e-02	-2.28e-02	-6.10e-02	1.010
## 526	7.38e-03	2.20e-02	-1.41e-02	-4.69e-03	4.33e-02	-8.64e-02	1.004
## 527	-1.38e-03	9.61e-03	-1.45e-02	-2.73e-03	7.31e-03	2.13e-02	1.009
## 528	-2.45e-03	2.06e-04	-5.14e-03	-2.01e-03	-3.19e-04	1.07e-02	1.006
## 529	-1.42e-02	2.91e-04	1.35e-02	5.25e-03	1.31e-02	5.64e-02	1.000
## 530	1.40e-03	-6.05e-03	-3.14e-05	-1.73e-03	1.07e-02	-1.80e-02	1.009

## 531	4.63e-03	-6.64e-03	-5.36e-03	-8.79e-03	7.24e-03	2.01e-02	1.004
## 532	-3.03e-04	1.90e-03	1.45e-04	4.45e-04	1.05e-04	3.78e-03	1.006
## 533	-7.33e-03	-6.47e-03	1.23e-02	2.59e-05	4.60e-03	3.35e-02	1.003
## 534	-9.78e-04	-1.11e-03	2.28e-03	1.38e-03	-7.63e-03	1.10e-02	1.008
## 535	-1.38e-02	1.06e-02	-8.11e-03	-5.23e-03	1.58e-02	3.54e-02	1.000
## 536	-4.98e-05	-2.36e-04	2.49e-05	3.88e-05	-6.32e-04	-1.18e-03	1.005
## 537	8.57e-02	-1.13e-03	-6.49e-02	-3.69e-02	2.87e-02	1.40e-01	0.983
## 538	2.77e-03	-5.75e-04	5.26e-03	4.23e-03	-3.20e-03	-1.11e-02	1.005
## 539	1.42e-04	-1.66e-03	1.27e-03	7.14e-04	5.83e-03	-8.15e-03	1.008
## 540	1.94e-04	-2.08e-02	1.22e-02	-5.80e-03	-3.24e-02	5.14e-02	1.007
## 541	-8.79e-04	4.29e-04	-1.08e-03	2.07e-03	3.83e-03	8.19e-03	1.009
## 542	-7.39e-05	1.91e-04	5.39e-04	3.11e-04	-7.69e-03	9.13e-03	1.009
## 543	-6.74e-03	-4.99e-03	-2.03e-03	1.05e-03	-1.78e-02	3.49e-02	1.007
## 544	-8.56e-03	-1.20e-02	-3.49e-02	-3.06e-02	-6.60e-02	9.49e-02	1.003
## 545	-7.39e-03	1.08e-02	-6.06e-03	1.57e-02	-3.70e-03	5.39e-02	1.009
## 546	6.82e-04	-1.80e-03	-3.70e-03	-4.21e-03	-4.28e-03	-8.35e-03	1.010
## 547	-2.97e-03	5.03e-03	2.35e-03	-2.69e-03	4.91e-03	1.47e-02	1.004
## 548	-1.48e-03	-2.36e-02	-2.10e-02	-6.69e-03	2.08e-02	7.41e-02	0.992
## 549	-1.37e-02	2.57e-03	1.50e-03	5.79e-04	4.06e-02	8.24e-02	0.990
## 550	-4.68e-03	1.89e-02	9.55e-04	2.14e-04	-5.08e-03	4.83e-02	1.000
## 551	-1.44e-02	3.54e-02	-5.92e-03	-1.16e-02	1.74e-02	5.66e-02	1.000
## 552	1.99e-03	3.08e-02	-3.01e-02	-1.67e-02	-6.06e-02	9.89e-02	1.004
## 553	-1.77e-02	-2.46e-02	7.59e-03	-7.88e-03	2.27e-02	5.59e-02	0.998
## 554	-1.36e-02	-1.45e-02	2.62e-02	3.62e-02	-8.61e-02	1.33e-01	0.990
## 555	3.27e-04	-8.25e-03	5.93e-04	-5.52e-03	-1.78e-02	3.47e-02	1.007
## 556	1.04e-02	-1.57e-02	1.60e-02	3.52e-02	7.41e-02	-1.14e-01	1.002
## 557	-1.27e-02	-5.92e-04	2.32e-02	8.07e-03	-3.28e-02	5.18e-02	1.006
## 558	-2.15e-04	1.23e-05	6.05e-06	2.70e-04	2.17e-04	7.31e-04	1.005
## 559	-1.82e-02	4.96e-02	-6.34e-02	-3.41e-02	3.97e-02	1.24e-01	0.995
## 560	-4.30e-03	-2.74e-03	2.55e-03	8.57e-03	-2.35e-02	3.60e-02	1.008
## 561	7.29e-03	3.75e-02	-2.85e-02	1.83e-03	1.59e-02	5.82e-02	0.999
## 562	-2.43e-02	-1.63e-02	-2.22e-02	1.50e-02	-3.40e-02	1.36e-01	0.997
## 563	9.20e-03	1.82e-03	-4.91e-04	-3.85e-03	1.07e-02	2.57e-02	1.004
## 564	-1.23e-02	-2.66e-02	4.39e-03	-3.17e-02	4.41e-02	9.65e-02	0.984
## 565	9.67e-04	-3.39e-03	-3.04e-04	-2.76e-03	-1.48e-02	1.85e-02	1.008
## 566	-3.00e-03	1.74e-02	-3.61e-02	-1.67e-02	1.12e-02	5.82e-02	1.000
## 567	-4.43e-03	-3.55e-04	-2.82e-03	-8.30e-03	1.06e-02	2.57e-02	1.004
## 568	-1.36e-03	-2.84e-03	-3.84e-04	-8.37e-04	4.89e-04	6.04e-03	1.007
## 569	-6.93e-04	-4.77e-03	4.75e-04	5.00e-03	5.29e-03	1.67e-02	1.003
## 570	-1.64e-02	-1.41e-02	-8.81e-04	-3.05e-02	1.87e-02	6.67e-02	0.994
## 571	-3.36e-03	-2.45e-03	-5.60e-03	1.42e-02	-1.59e-02	5.31e-02	1.008
## 572	3.39e-05	7.35e-06	1.17e-05	3.37e-05	4.47e-05	-1.40e-04	1.005
## 573	5.93e-03	3.63e-02	-1.10e-02	1.19e-02	-5.58e-02	8.93e-02	1.003
## 574	-7.86e-03	2.82e-02	-8.05e-03	-2.63e-02	-5.65e-02	9.81e-02	1.003
## 575	-3.27e-03	-1.22e-03	2.73e-03	-7.71e-04	9.52e-03	2.46e-02	1.006
## 576	1.50e-01	1.04e-02	-2.74e-03	1.98e-02	1.54e-02	1.61e-01	1.012
## 577	-3.23e-04	6.02e-04	9.45e-03	1.09e-02	2.19e-02	-3.14e-02	1.008
## 578	2.56e-03	-6.29e-03	1.17e-02	1.16e-02	2.48e-02	-4.37e-02	1.008
## 579	-1.08e-02	1.79e-02	-1.36e-02	-1.26e-03	2.65e-02	5.00e-02	1.002
## 580	1.80e-04	3.89e-03	3.59e-03	1.21e-02	2.84e-02	-4.00e-02	1.007
## 581	1.61e-02	-2.66e-03	-9.71e-03	-1.02e-03	3.67e-03	2.81e-02	1.006
## 582	-4.65e-03	2.14e-02	-3.07e-02	-1.40e-02	1.22e-02	4.87e-02	1.003
## 583	1.27e-03	4.43e-03	-4.40e-03	2.10e-03	5.90e-03	-1.01e-02	1.009
## 584	8.31e-02	1.09e-02	1.87e-02	1.12e-03	1.20e-02	9.97e-02	0.997

## 585	-8.51e-04	9.00e-03	5.91e-03	-1.20e-03	1.50e-03	1.25e-01	1.040
## 586	-1.61e-02	-6.85e-03	-3.19e-03	-1.52e-02	-3.17e-03	-4.76e-02	1.007
## 587	-3.26e-03	5.66e-03	9.80e-03	3.88e-03	-7.10e-03	-2.56e-02	1.007
## 588	-2.35e-03	-4.38e-03	8.68e-03	-1.28e-03	-3.79e-03	-3.07e-02	1.007
## 589	-9.34e-03	-5.07e-03	-6.66e-04	3.52e-03	3.18e-04	-2.56e-02	1.006
## 590	-1.74e-03	-9.04e-03	-1.32e-02	-1.07e-02	-3.30e-02	5.43e-02	1.011
## 591	-7.56e-04	-8.87e-04	-5.21e-05	-1.47e-04	1.88e-04	-4.88e-03	1.015
## 592	-4.28e-04	1.07e-03	-9.75e-04	-6.80e-04	-7.84e-04	-2.04e-03	1.007
## 593	-1.17e-02	-2.03e-02	5.40e-03	-1.01e-02	6.47e-05	-4.88e-02	1.004
## 594	-3.71e-02	-7.51e-03	1.84e-03	-1.25e-02	-1.26e-02	-5.25e-02	1.019
## 595	-1.12e-02	2.56e-03	3.89e-03	8.50e-03	-3.20e-03	-2.98e-02	1.005
## 596	-1.16e-03	4.48e-03	4.57e-03	4.01e-03	-2.45e-03	-9.80e-03	1.007
## 597	-1.38e-01	-2.50e-02	2.80e-02	-9.31e-03	-3.22e-02	-1.90e-01	1.005
## 598	4.15e-04	6.86e-02	-1.03e-02	5.88e-03	-2.06e-03	-8.19e-02	1.000
## 599	-2.76e-02	-1.02e-02	-8.73e-03	-1.83e-02	-1.68e-02	-5.38e-02	1.007
## 600	3.03e-02	-1.53e-02	7.53e-03	4.42e-02	-3.88e-02	-8.00e-02	0.997
## 601	2.31e-03	6.82e-03	5.01e-04	4.90e-04	1.44e-03	-1.13e-02	1.005
## 602	9.83e-03	-3.97e-02	2.35e-02	-1.41e-02	-2.71e-02	-8.71e-02	0.997
## 603	2.59e-03	1.07e-03	1.39e-02	2.76e-02	-1.63e-02	-5.91e-02	1.006
## 604	5.88e-03	-4.52e-02	-3.22e-02	-5.48e-02	-1.93e-02	-1.12e-01	1.008
## 605	2.62e-04	2.49e-03	3.95e-02	3.37e-02	-4.33e-03	-7.35e-02	1.004
## 606	-1.97e-04	2.29e-03	-1.09e-02	2.54e-02	-1.26e-02	-6.90e-02	1.010
## 607	-1.26e-03	3.58e-02	-2.02e-02	4.71e-02	-1.62e-02	-1.05e-01	1.005
## 608	6.42e-03	1.82e-02	6.33e-03	6.84e-03	9.33e-05	-2.94e-02	1.006
## 609	-5.12e-04	-2.11e-02	-1.89e-02	1.16e-02	-1.97e-02	-8.55e-02	1.007
## 610	8.11e-03	4.12e-02	1.61e-02	4.20e-02	-8.10e-03	-8.45e-02	0.993
## 611	1.16e-02	-2.15e-02	3.98e-02	5.68e-02	-1.22e-02	-7.56e-02	1.001
## 612	3.18e-03	5.50e-04	2.16e-03	4.34e-03	-5.72e-03	-1.27e-02	1.005
## 613	9.82e-03	1.14e-02	-3.19e-02	-1.66e-03	-2.43e-02	-8.56e-02	1.001
## 614	7.62e-03	6.26e-03	9.83e-03	1.91e-02	-1.23e-02	-4.31e-02	1.002
## 615	-1.72e-04	-3.97e-04	2.11e-04	-4.28e-04	-1.78e-04	7.88e-04	1.009
## 616	4.21e-02	4.54e-03	-2.60e-02	5.16e-02	-2.92e-02	-1.35e-01	1.007
## 617	2.34e-02	-3.77e-02	2.18e-02	5.73e-02	-3.05e-02	-9.68e-02	0.998
## 618	7.61e-03	-2.97e-02	2.15e-02	6.17e-02	9.23e-02	-1.59e-01	0.995
## 619	1.84e-04	-2.49e-03	2.91e-03	1.77e-03	-3.29e-04	4.99e-03	1.008
## 620	5.63e-03	4.02e-02	-1.58e-02	5.56e-03	-7.32e-03	-4.86e-02	1.006
## 621	-4.24e-03	-7.60e-02	-3.00e-02	1.72e-02	1.64e-02	-1.68e-01	0.978
## 622	3.30e-03	-1.27e-02	-1.88e-03	-6.76e-04	-7.16e-04	-2.51e-02	1.007
## 623	3.12e-03	-8.05e-03	-2.33e-04	7.77e-03	-2.83e-03	-2.06e-02	1.004
## 624	1.27e-02	1.62e-03	-7.29e-03	3.11e-02	-6.81e-03	-4.91e-02	1.007
## 625	2.34e-02	1.77e-03	-4.41e-02	1.55e-03	-3.55e-03	-9.89e-02	0.991
## 626	1.30e-02	1.14e-02	-6.98e-02	-1.67e-02	-2.92e-02	-1.11e-01	1.002
## 627	-1.77e-02	-4.36e-02	-7.47e-02	-7.55e-02	6.05e-03	2.12e-01	0.972
## 628	3.52e-03	1.57e-02	-6.73e-03	7.11e-03	3.39e-03	-2.49e-02	1.005
## 629	1.55e-03	7.15e-03	1.95e-02	8.94e-03	4.52e-03	-3.38e-02	1.004
## 630	2.16e-04	-4.78e-02	5.79e-02	8.97e-03	-7.10e-03	-9.04e-02	1.002
## 631	-3.12e-04	-2.73e-03	4.61e-03	7.19e-04	7.05e-04	-9.20e-03	1.008
## 632	4.14e-03	3.19e-03	-1.27e-02	-8.89e-03	3.25e-03	-2.36e-02	1.005
## 633	2.60e-03	-6.68e-03	2.48e-02	6.98e-03	-5.42e-03	-5.10e-02	1.007
## 634	3.54e-03	7.34e-03	-1.45e-02	-3.43e-03	-7.51e-04	-2.23e-02	1.010
## 635	1.49e-04	-2.69e-04	-1.79e-03	3.61e-04	-4.83e-04	3.68e-03	1.007
## 636	-5.60e-04	6.72e-03	1.46e-02	1.77e-03	-2.59e-03	4.62e-02	1.001
## 637	-1.44e-03	-9.90e-04	-1.66e-03	5.18e-03	-5.35e-03	2.38e-02	1.004
## 638	-4.25e-03	1.85e-02	3.14e-03	1.28e-02	-1.59e-02	5.22e-02	1.001

## 639	6.66e-03	-1.47e-02	8.66e-03	-2.23e-02	2.31e-03	-5.28e-02	1.005
## 640	-4.19e-03	1.29e-02	-2.67e-02	-1.81e-02	-4.65e-03	3.99e-02	1.007
## 641	6.24e-03	-1.66e-02	-1.18e-02	-1.68e-02	-3.82e-03	-3.76e-02	1.006
## 642	1.58e-02	4.99e-02	8.81e-03	3.71e-03	2.44e-02	-9.47e-02	0.994
## 643	2.40e-03	-1.28e-02	5.41e-03	2.30e-02	5.74e-03	-6.98e-02	0.996
## 644	-3.01e-04	-1.67e-03	1.91e-03	-1.46e-04	-1.46e-03	6.72e-03	1.006
## 645	-2.53e-03	1.61e-03	-7.01e-03	-1.59e-02	7.05e-03	-4.30e-02	1.002
## 646	3.38e-03	-7.14e-04	-6.20e-03	-1.08e-03	-8.91e-04	-1.97e-02	1.005
## 647	1.32e-01	2.81e-02	1.22e-02	3.23e-02	2.79e-04	1.50e-01	1.006
## 648	-5.50e-03	2.06e-03	-1.63e-02	-6.46e-03	3.13e-03	2.57e-02	1.010
## 649	-6.04e-03	1.01e-02	-2.81e-02	-1.27e-02	1.70e-03	-5.31e-02	0.999
## 650	9.07e-04	3.04e-02	9.45e-02	6.85e-02	7.29e-03	-1.39e-01	0.986
## 651	2.42e-04	-8.39e-05	-7.40e-05	-1.26e-04	-2.59e-04	1.26e-03	1.005
## 652	8.55e-04	1.20e-03	7.67e-05	9.36e-04	4.37e-04	-4.76e-03	1.005
## 653	7.36e-04	-6.51e-03	-2.21e-04	-4.78e-04	-9.57e-04	1.18e-02	1.006
## 654	5.44e-03	-1.40e-03	8.88e-03	1.04e-02	-1.37e-03	-2.14e-02	1.004
## 655	-2.61e-04	5.26e-03	3.40e-03	1.87e-03	2.59e-03	-2.03e-02	1.005
## 656	6.29e-03	-2.08e-02	2.66e-02	-1.42e-02	-8.85e-03	-7.40e-02	1.003
## 657	6.78e-03	-4.43e-02	8.72e-02	1.97e-02	-4.80e-03	-1.06e-01	1.001
## 658	-3.54e-03	2.36e-02	-9.19e-03	3.67e-03	-4.42e-04	-6.85e-02	0.995
## 659	3.07e-04	1.61e-03	-1.72e-03	-2.50e-03	1.49e-03	-1.09e-02	1.004
## 660	1.45e-02	-2.62e-02	-7.31e-02	-2.22e-02	-3.17e-02	-1.57e-01	0.987
## 661	-8.48e-03	7.69e-03	6.98e-02	3.29e-02	-1.46e-03	-1.03e-01	1.005
## 662	6.25e-04	2.26e-02	1.32e-02	1.35e-02	-3.51e-03	4.26e-02	1.004
## 663	2.12e-03	-3.72e-03	4.68e-03	-2.35e-03	-9.17e-04	-1.78e-02	1.006
## 664	3.05e-03	2.90e-02	-2.68e-02	9.73e-03	1.70e-03	-5.33e-02	1.001
## 665	9.48e-05	-1.55e-04	-4.52e-04	-5.36e-04	3.15e-04	-1.21e-03	1.007
## 666	-1.38e-02	2.18e-02	-7.03e-02	-4.31e-02	-2.27e-03	1.51e-01	0.973
## 667	-3.47e-04	-1.13e-03	-1.66e-03	-2.42e-03	5.84e-05	4.41e-03	1.007
## 668	-1.55e-04	5.09e-04	-5.68e-04	2.02e-04	2.86e-05	1.78e-03	1.007
## 669	1.70e-03	-5.32e-03	7.12e-03	-4.46e-03	1.68e-03	-1.84e-02	1.004
## 670	-1.22e-02	-3.40e-02	-3.22e-02	1.73e-02	-5.25e-03	1.17e-01	0.983
## 671	4.02e-03	-1.13e-02	2.04e-02	1.65e-02	1.18e-03	3.47e-02	1.003
## 672	7.95e-03	1.38e-02	-2.00e-02	-1.32e-02	1.41e-02	-5.54e-02	0.997
## 673	5.19e-04	1.61e-03	-5.48e-05	8.35e-04	-1.51e-06	-4.20e-03	1.006
## 674	-1.35e-02	-3.65e-02	3.41e-02	-1.95e-02	-2.98e-03	7.96e-02	0.994
## 675	1.09e-03	-8.13e-03	9.19e-03	1.87e-03	-4.34e-03	-2.49e-02	1.005
## 676	1.70e-03	3.63e-03	4.36e-03	4.89e-04	7.43e-04	-1.07e-02	1.007
## 677	9.78e-04	6.39e-03	-1.07e-03	7.29e-04	-3.82e-04	-1.37e-02	1.004
## 678	-1.43e-03	2.37e-03	6.31e-03	2.65e-03	1.45e-03	-2.17e-02	1.005
## 679	7.05e-04	6.25e-04	-1.83e-03	-8.29e-04	1.73e-03	-1.02e-02	1.004
## 680	1.78e-03	4.05e-02	-1.06e-02	8.80e-03	-1.00e-03	-7.13e-02	0.989
## 681	7.26e-03	5.38e-03	7.58e-03	8.42e-03	1.57e-03	-3.13e-02	1.003
## 682	-1.12e-03	-8.17e-04	-8.46e-04	3.12e-03	-1.35e-04	7.71e-03	1.006
## 683	1.35e-03	-2.77e-04	9.26e-03	3.93e-03	-1.91e-03	-2.19e-02	1.006
## 684	4.35e-03	1.39e-02	-1.45e-02	-8.75e-03	5.90e-03	-2.96e-02	1.004
## 685	-2.45e-03	-7.65e-04	-6.87e-03	-8.96e-03	6.04e-05	1.41e-02	1.006
## 686	-3.39e-03	4.00e-03	3.58e-03	5.98e-03	-8.55e-04	1.68e-02	1.008
## 687	-7.27e-03	2.01e-03	-1.51e-03	3.10e-03	-7.23e-03	3.63e-02	1.003
## 688	-6.76e-04	2.43e-03	-3.07e-03	1.26e-03	-8.94e-04	6.05e-03	1.006
## 689	6.24e-04	1.44e-03	4.70e-04	4.49e-04	2.41e-03	-7.07e-03	1.006
## 690	2.95e-03	1.48e-02	7.90e-03	2.05e-02	-1.36e-02	6.99e-02	0.997
## 691	-3.12e-03	-1.19e-03	8.92e-04	4.98e-04	-1.38e-03	1.00e-02	1.005
## 692	-1.41e-03	-3.22e-03	-2.96e-03	1.17e-02	6.39e-03	4.43e-02	1.001

## 693	1.26e-03	7.81e-03	-3.60e-02	-2.65e-02	4.94e-03	5.44e-02	1.010
## 694	1.62e-03	7.64e-05	-2.79e-03	-2.86e-03	-2.45e-03	1.09e-02	1.006
## 695	-4.59e-03	6.25e-03	-5.78e-03	2.39e-03	-1.21e-02	3.23e-02	1.006
## 696	-3.77e-03	1.31e-02	-1.47e-02	8.62e-03	-1.07e-02	4.27e-02	1.002
## 697	-3.68e-04	7.20e-03	2.33e-03	3.48e-03	-7.70e-04	-1.29e-02	1.005
## 698	2.62e-03	-1.62e-02	-4.67e-03	-3.13e-03	5.74e-03	2.86e-02	1.006
## 699	-8.89e-04	-4.05e-04	-9.14e-03	3.83e-04	2.67e-02	5.75e-02	0.997
## 700	-3.08e-03	-2.77e-03	6.66e-03	-4.08e-03	1.72e-02	3.91e-02	1.000
## 701	-1.45e-03	-4.99e-05	7.18e-03	4.72e-04	5.76e-04	1.18e-02	1.005
## 702	-3.77e-03	1.41e-03	4.49e-03	1.25e-02	1.00e-02	2.39e-02	1.004
## 703	4.29e-04	-6.23e-03	1.99e-03	-2.02e-03	-1.54e-03	-8.96e-03	1.007
## 704	1.54e-03	7.40e-03	1.23e-03	-2.57e-03	-2.90e-02	5.64e-02	1.006
## 705	2.52e-04	7.01e-04	-1.23e-03	2.70e-04	5.93e-04	2.47e-03	1.005
## 706	-6.96e-03	-5.12e-04	5.98e-03	1.56e-02	2.04e-02	3.93e-02	0.998
## 707	-9.04e-04	5.12e-03	-8.84e-03	-7.55e-04	8.03e-03	2.35e-02	1.002
## 708	2.38e-04	1.71e-02	1.93e-03	6.16e-03	1.32e-02	3.10e-02	1.006
## 709	-9.80e-04	-1.64e-03	1.32e-03	-2.46e-03	2.80e-03	8.28e-03	1.005
## 710	-4.27e-03	-5.19e-03	8.99e-03	-7.22e-03	-1.91e-02	2.93e-02	1.007
## 711	-1.34e-03	-1.09e-04	-1.17e-03	-2.21e-04	-2.33e-03	-4.66e-03	1.006
## 712	1.34e-03	1.33e-03	3.33e-03	6.12e-04	-1.27e-03	-7.26e-03	1.005
## 713	2.11e-03	-1.85e-03	6.40e-03	5.32e-03	-2.40e-02	5.18e-02	1.007
## 714	-6.07e-04	1.41e-04	2.11e-03	2.15e-03	2.20e-03	5.70e-03	1.011
## 715	2.38e-03	-4.76e-03	9.65e-04	2.61e-03	-1.07e-02	-2.61e-02	1.006
## 716	9.29e-04	-2.41e-03	6.55e-03	5.64e-03	9.69e-03	2.54e-02	1.004
## 717	8.39e-04	1.57e-03	-2.61e-02	-2.38e-02	-2.15e-02	-5.27e-02	1.007
## 718	-4.99e-04	-9.05e-04	1.48e-03	8.51e-03	1.09e-02	2.46e-02	1.002
## 719	-2.84e-03	1.59e-03	2.20e-02	1.42e-02	2.01e-02	4.33e-02	1.002
## 720	-1.24e-03	-3.41e-04	8.55e-03	-2.69e-03	5.84e-03	1.74e-02	1.006
## 721	-7.73e-03	2.27e-02	-5.92e-04	9.14e-03	2.54e-02	5.46e-02	0.995
## 722	-1.72e-03	1.19e-02	-4.53e-04	-1.55e-03	1.21e-02	4.31e-02	1.001
## 723	-3.53e-05	-2.38e-05	-1.01e-04	-1.20e-04	-6.03e-04	-1.40e-03	1.008
## 724	-9.88e-06	2.69e-04	-3.01e-04	-4.60e-05	1.50e-04	5.23e-04	1.006
## 725	1.95e-03	2.17e-02	5.75e-03	2.36e-02	-3.67e-02	6.90e-02	1.005
## 726	-6.64e-05	-1.87e-04	-2.67e-04	9.84e-05	1.68e-04	8.30e-04	1.005
## 727	1.01e-02	2.58e-02	7.40e-02	1.15e-01	2.47e-04	1.88e-01	1.008
## 728	-5.35e-04	-2.96e-03	5.42e-03	2.24e-03	-5.45e-03	9.14e-03	1.010
## 729	5.44e-04	-1.45e-03	8.62e-04	1.42e-03	1.03e-02	-1.31e-02	1.008
## 730	-3.18e-04	2.79e-03	9.53e-03	-2.14e-04	5.82e-03	2.00e-02	1.007
## 731	-2.99e-03	-1.21e-02	1.26e-02	6.51e-03	6.18e-03	2.48e-02	1.003
## 732	4.39e-04	-1.54e-02	-1.04e-02	-8.11e-03	-4.02e-03	-3.08e-02	1.004
## 733	-1.70e-03	1.48e-03	4.47e-03	3.37e-03	6.91e-03	1.76e-02	1.003
## 734	-3.75e-04	1.78e-03	-7.93e-04	5.68e-03	-3.25e-02	5.02e-02	1.007
## 735	7.48e-04	3.76e-03	3.58e-03	-2.10e-03	5.36e-03	1.91e-02	1.006
## 736	-4.86e-04	4.33e-04	-6.92e-04	4.92e-04	7.63e-04	2.01e-03	1.007
## 737	-2.59e-03	6.88e-03	4.54e-03	-2.43e-03	1.60e-02	4.05e-02	1.003
## 738	-2.02e-03	-7.18e-04	2.26e-03	-1.06e-02	5.94e-03	3.86e-02	0.997
## 739	-2.11e-03	-3.49e-03	3.17e-03	3.31e-03	1.81e-03	1.13e-02	1.004
## 740	-1.78e-03	1.38e-03	3.17e-02	9.24e-03	-5.53e-02	9.02e-02	1.006
## 741	-1.21e-03	8.00e-03	4.61e-03	3.35e-03	5.57e-03	1.63e-02	1.007
## 742	-1.13e-02	1.31e-02	-1.05e-03	1.10e-02	-1.76e-03	5.78e-02	1.002
## 743	1.04e-02	-2.71e-02	-7.33e-03	-1.66e-02	-4.62e-03	-5.55e-02	0.998
## 744	1.89e-03	-1.55e-02	-1.25e-02	-1.41e-02	-1.40e-02	-3.48e-02	1.007
## 745	-1.19e-03	8.43e-04	1.61e-02	1.23e-02	2.17e-02	4.27e-02	1.001
## 746	-9.25e-03	4.26e-02	2.52e-03	9.05e-03	2.45e-02	6.77e-02	0.997

## 747	3.62e-03	9.61e-03	-1.52e-02	1.01e-02	3.33e-02	-4.89e-02	1.007
## 748	2.34e-03	-6.67e-02	-1.00e-02	1.66e-03	9.00e-02	-1.48e-01	0.999
## 749	5.39e-03	4.11e-02	-3.06e-03	2.17e-02	4.68e-02	1.11e-01	0.983
## 750	-3.92e-03	-6.15e-03	-4.90e-03	-3.33e-03	5.03e-03	1.96e-02	1.006
## 751	-3.84e-03	-1.60e-04	-2.81e-03	-5.20e-03	-1.42e-02	-3.57e-02	1.004
## 752	1.54e-04	1.14e-03	1.21e-03	1.84e-03	3.09e-03	8.40e-03	1.005
## 753	7.39e-05	2.91e-04	1.95e-04	1.46e-04	4.56e-06	7.29e-04	1.005
## 754	-4.46e-03	3.20e-03	-2.84e-03	5.44e-04	2.47e-04	1.33e-02	1.005
## 755	-8.72e-04	-1.28e-02	2.95e-02	-6.94e-03	-7.05e-02	1.21e-01	1.002
## 756	-7.49e-03	3.57e-02	-1.17e-02	8.05e-03	3.04e-02	6.61e-02	0.990
## 757	3.22e-04	-7.00e-04	2.03e-03	9.03e-03	-2.95e-03	-1.32e-02	1.006
## 758	-3.86e-03	-8.93e-03	2.68e-03	8.97e-03	1.62e-02	4.55e-02	1.006
## 759	-6.57e-03	2.77e-02	1.47e-02	1.43e-02	1.05e-02	6.74e-02	0.991
## 760	1.31e-03	3.70e-02	-4.45e-04	4.94e-03	2.11e-02	7.28e-02	0.996
## 761	6.55e-05	-1.01e-04	-2.20e-04	5.64e-05	5.86e-04	1.40e-03	1.005
## 762	1.99e-03	-6.08e-03	1.25e-03	-7.74e-04	2.37e-03	-1.59e-02	1.004
## 763	-8.24e-03	1.11e-02	1.30e-02	1.31e-02	4.79e-03	3.88e-02	1.003
## 764	-1.27e-02	-6.66e-03	4.36e-02	1.64e-02	1.08e-02	5.58e-02	1.002
## 765	2.37e-03	1.31e-03	-1.50e-02	-3.60e-03	1.08e-02	3.63e-02	1.006
## 766	-1.30e-03	1.24e-02	2.17e-03	4.98e-04	1.45e-02	3.47e-02	1.005
## 767	7.10e-04	-1.62e-02	-2.64e-03	-1.06e-03	5.92e-02	-8.00e-02	1.003
## 768	4.39e-03	-2.33e-02	2.45e-02	3.69e-03	1.17e-02	4.21e-02	1.001
## 769	-8.85e-04	-1.68e-03	-3.08e-03	-1.33e-03	1.02e-03	5.68e-03	1.005
## 770	-5.82e-04	2.52e-03	3.22e-03	2.99e-03	-8.67e-03	1.29e-02	1.008
## 771	-2.73e-03	1.88e-02	-5.52e-02	1.51e-02	2.45e-02	8.88e-02	1.000
## 772	-2.10e-03	6.29e-03	5.35e-03	4.95e-03	9.13e-03	1.96e-02	1.006
## 773	7.62e-03	-3.96e-02	3.06e-03	-1.46e-02	1.04e-02	-5.37e-02	1.007
## 774	-4.14e-04	4.49e-03	1.89e-03	2.53e-03	-2.29e-03	1.20e-02	1.005
## 775	-2.86e-02	2.10e-02	1.02e-01	1.86e-02	6.27e-02	1.99e-01	0.964
## 776	-1.33e-02	9.14e-03	1.70e-02	-1.95e-02	-8.10e-03	5.76e-02	1.007
## 777	-1.93e-03	-7.26e-03	2.02e-02	3.63e-02	-8.79e-03	-5.03e-02	1.002
## 778	-1.72e-04	1.36e-02	-8.22e-03	-2.19e-02	1.38e-02	4.62e-02	1.004
## 779	-4.28e-03	9.43e-03	-3.45e-04	1.81e-03	-1.40e-03	2.50e-02	1.008
## 780	3.37e-02	1.14e-01	2.42e-02	3.91e-02	9.01e-04	1.75e-01	0.986
## 781	2.85e-04	-9.19e-04	3.22e-04	-2.50e-03	8.07e-04	6.90e-03	1.006
## 782	-1.68e-04	-1.21e-03	-2.08e-03	1.06e-03	5.13e-04	-6.62e-03	1.006
## 783	-8.36e-02	-3.82e-03	-1.07e-01	6.30e-02	-3.39e-02	-2.42e-01	0.988
## 784	1.07e-02	-2.57e-03	-6.25e-03	2.86e-02	-9.89e-03	-7.51e-02	1.001
## 785	1.43e-02	4.60e-03	7.37e-04	-8.48e-03	1.83e-03	2.90e-02	1.004
## 786	-3.60e-03	-2.63e-02	3.37e-02	-2.11e-02	1.57e-02	8.58e-02	1.004
## 787	-1.11e-02	1.05e-02	-1.41e-02	-2.41e-03	-1.82e-02	-4.84e-02	1.006
## 788	-5.56e-05	-3.61e-04	-7.94e-05	2.47e-05	5.57e-05	-1.79e-03	1.007
## 789	-5.95e-03	5.34e-03	3.39e-04	2.07e-03	-1.47e-03	-1.29e-02	1.006
## 790	-4.73e-04	1.03e-02	-2.08e-02	-1.63e-02	8.60e-04	2.84e-02	1.010
## 791	-7.75e-03	1.39e-02	-2.56e-02	-4.07e-02	9.35e-03	6.16e-02	1.000
## 792	-1.41e-03	-8.68e-04	1.26e-03	-9.42e-04	3.11e-03	6.79e-03	1.005
## 793	-2.65e-03	7.01e-03	-3.79e-03	-1.35e-02	-5.23e-03	3.12e-02	1.005
## 794	-9.40e-03	7.88e-03	1.99e-02	-5.03e-03	-1.45e-02	-6.05e-02	1.010
## 795	-4.65e-04	-1.03e-02	-6.67e-03	-9.40e-03	-5.42e-04	1.67e-02	1.010
## 796	-5.29e-02	3.26e-02	1.11e-02	4.91e-02	4.82e-02	-1.56e-01	1.013
## 797	-5.05e-03	6.07e-03	-1.30e-02	-1.72e-02	8.13e-03	3.41e-02	1.003
## 798	-7.96e-04	-4.09e-03	1.40e-05	-1.95e-03	-1.89e-02	3.31e-02	1.007
## 799	3.14e-03	8.15e-03	-5.94e-03	1.06e-03	6.93e-04	-2.35e-02	1.005
## 800	-1.29e-03	-1.70e-03	4.72e-04	5.14e-05	2.63e-03	7.27e-03	1.009

## 801	-6.89e-04	-4.19e-04	-8.44e-06	-5.32e-04	5.43e-04	1.99e-03	1.005
## 802	9.19e-04	6.31e-04	-3.09e-04	1.62e-03	-1.12e-03	-2.76e-03	1.007
## 803	-1.31e-02	-1.04e-01	-5.39e-02	-4.98e-02	-1.63e-03	-1.61e-01	0.980
## 804	-9.10e-03	2.83e-03	8.37e-03	-1.60e-02	-2.16e-02	3.73e-02	1.010
## 805	2.38e-02	1.34e-02	-5.68e-02	-2.04e-02	-6.71e-02	-1.28e-01	0.998
## 806	7.84e-04	2.03e-04	2.54e-04	1.58e-03	1.31e-03	-2.92e-03	1.009
## 807	1.17e-03	-1.59e-03	7.41e-04	7.41e-04	-4.41e-03	-8.83e-03	1.007
## 808	2.54e-03	2.68e-03	2.10e-03	4.53e-04	-1.52e-03	-1.04e-02	1.008
## 809	8.70e-04	1.19e-03	-3.36e-03	-2.08e-03	1.11e-04	-6.72e-03	1.014
## 810	-1.97e-04	4.15e-04	1.96e-04	1.18e-04	5.84e-04	2.15e-03	1.010
## 811	-1.21e-03	-5.31e-03	1.11e-02	4.77e-03	-1.85e-02	2.51e-02	1.008
## 812	5.25e-02	2.25e-02	4.32e-04	7.70e-02	1.27e-01	-2.14e-01	0.959
## 813	-2.52e-03	5.91e-03	2.16e-02	9.25e-03	2.39e-02	4.62e-02	1.001
## 814	-1.64e-03	-4.62e-04	2.72e-03	-2.97e-04	1.67e-03	5.99e-03	1.006
## 815	-3.48e-03	-2.26e-03	5.58e-03	1.38e-03	6.71e-03	3.23e-02	1.009
## 816	-1.43e-03	1.14e-03	1.09e-02	5.48e-03	9.38e-03	2.23e-02	1.008
## 817	-1.54e-03	-1.24e-02	5.45e-04	-9.43e-03	1.76e-03	2.34e-02	1.006
## 818	-1.56e-03	-2.50e-03	5.09e-03	1.99e-03	3.58e-03	9.13e-03	1.006
## 819	-9.32e-04	-1.44e-03	-6.87e-04	-1.18e-03	-1.23e-05	3.46e-03	1.006
## 820	-3.81e-03	1.38e-03	4.25e-03	-7.17e-04	5.97e-03	1.97e-02	1.003
## 821	-9.59e-03	-2.67e-03	2.82e-02	-9.64e-04	6.88e-03	3.67e-02	1.006
## 822	-8.69e-03	-5.76e-03	-2.21e-02	5.40e-03	-2.92e-02	6.15e-02	1.008
## 823	3.02e-04	1.81e-04	-3.99e-04	4.89e-04	2.02e-04	-1.54e-03	1.006
## 824	4.24e-02	1.13e-02	-5.04e-03	4.20e-02	8.38e-03	-1.38e-01	1.001
## 825	1.16e-02	1.07e-03	-1.83e-02	-8.67e-03	3.11e-02	-7.08e-02	1.005
## 826	7.17e-03	-3.94e-03	1.74e-02	-7.15e-03	2.70e-02	-5.66e-02	1.005
## 827	8.50e-05	2.73e-04	4.60e-05	-6.86e-06	-2.36e-04	-6.17e-04	1.011
## 828	-4.57e-03	-1.80e-03	-3.31e-03	-5.06e-03	6.00e-03	1.50e-02	1.007
## 829	-1.93e-03	3.54e-03	6.88e-05	2.04e-03	2.64e-03	1.52e-02	1.005
## 830	2.69e-03	8.84e-04	9.47e-04	4.41e-03	-5.32e-03	-1.83e-02	1.006
## 831	4.07e-03	1.86e-03	-1.35e-03	2.89e-03	-3.41e-03	-1.01e-02	1.006
## 832	1.38e-02	1.33e-02	4.53e-04	6.41e-03	4.52e-02	-6.49e-02	1.004
## 833	7.20e-03	-5.47e-03	4.69e-03	1.46e-02	-8.02e-03	-2.10e-02	1.009
## 834	1.06e-03	-9.36e-04	-1.14e-03	1.25e-03	-2.22e-03	-4.81e-03	1.006
## 835	-1.46e-02	-2.51e-02	1.03e-02	-1.79e-02	1.09e-02	8.11e-02	0.996
## 836	-6.82e-03	-1.70e-03	3.00e-03	-2.21e-03	-1.91e-03	2.29e-02	1.004
## 837	-1.64e-02	2.69e-03	-1.52e-02	-2.54e-02	1.88e-02	5.21e-02	1.008
## 838	-6.51e-03	3.98e-03	-1.29e-03	7.50e-05	3.94e-03	2.92e-02	1.007
## 839	-9.82e-03	1.52e-02	-3.33e-03	9.87e-03	1.51e-02	4.99e-02	1.007
## 840	2.53e-03	5.88e-04	-1.55e-02	-9.41e-03	1.15e-02	-3.39e-02	1.012
## 841	-3.13e-03	2.58e-03	1.37e-03	-1.05e-03	2.88e-03	1.11e-02	1.006
## 842	-7.35e-04	-1.77e-03	1.38e-03	-1.30e-03	1.94e-03	4.87e-03	1.006
## 843	1.62e-03	-1.89e-03	-6.61e-04	1.30e-03	9.78e-04	-7.94e-03	1.005
## 844	-9.03e-03	3.55e-03	-1.55e-02	-1.14e-02	1.21e-02	3.15e-02	1.005
## 845	6.88e-02	1.14e-01	4.06e-03	1.51e-01	8.04e-02	-2.82e-01	0.977
## 846	-9.35e-03	-2.95e-03	1.78e-02	-2.05e-03	1.14e-02	3.88e-02	1.005
## 847	-7.82e-03	1.43e-02	2.02e-02	8.66e-03	3.03e-02	5.85e-02	1.000
## 848	1.37e-02	1.35e-02	-3.59e-02	5.29e-03	-1.19e-02	-6.20e-02	1.000
## 849	-1.32e-02	1.11e-02	2.02e-02	5.41e-03	-2.22e-03	5.48e-02	1.003
## 850	1.27e-03	-1.26e-03	-2.06e-03	7.93e-04	7.66e-03	-1.45e-02	1.008
## 851	-3.92e-03	-4.05e-03	3.14e-03	-3.30e-03	5.69e-03	1.42e-02	1.006
## 852	7.55e-03	-7.78e-03	-5.91e-03	-9.80e-03	-1.40e-02	-4.82e-02	1.005
## 853	9.34e-03	1.18e-02	4.37e-04	3.46e-02	2.35e-02	-4.57e-02	1.014
## 854	1.08e-02	-7.16e-02	5.79e-02	-2.38e-02	-3.76e-02	-1.13e-01	1.009



## 855	-6.90e-03	1.49e-02	1.13e-02	1.76e-03	2.40e-02	5.24e-02	1.008
## 856	-8.85e-04	-5.77e-03	-3.34e-04	-5.13e-04	6.75e-04	8.52e-03	1.005
## 857	-1.55e-04	2.68e-04	-1.47e-03	-1.06e-03	1.32e-03	3.32e-03	1.006
## 858	-5.04e-04	-2.65e-03	-2.20e-03	-1.17e-03	-9.91e-04	5.45e-03	1.006
## 859	6.61e-04	-3.87e-04	4.26e-03	1.59e-03	-1.31e-03	-6.49e-03	1.005
## 860	1.86e-03	4.82e-03	2.61e-02	2.36e-02	-5.66e-05	-3.79e-02	1.007
## 861	-2.64e-05	-1.39e-02	-2.64e-03	-3.13e-03	3.65e-04	2.21e-02	1.004
## 862	3.73e-03	2.02e-02	-9.18e-03	1.32e-02	-1.88e-03	-3.71e-02	1.003
## 863	1.84e-04	6.31e-04	-1.89e-04	4.45e-04	1.90e-05	-1.37e-03	1.006
## 864	-1.57e-04	-7.72e-04	-2.74e-04	-8.47e-04	5.48e-04	2.58e-03	1.005
## 865	-4.19e-05	-5.71e-05	-4.78e-04	-2.71e-04	1.34e-04	7.19e-04	1.006
## 866	-3.34e-05	1.77e-04	2.33e-04	4.54e-04	-5.74e-04	-1.55e-03	1.007
## 867	4.39e-04	3.64e-03	-3.28e-03	-1.03e-03	7.10e-04	-5.63e-03	1.006
## 868	-3.39e-03	-1.00e-02	-6.63e-03	-1.16e-02	7.62e-03	2.98e-02	1.003
## 869	6.76e-04	3.39e-03	9.12e-04	3.65e-03	-1.38e-03	-9.73e-03	1.005
## 870	-7.31e-05	-1.29e-02	-1.81e-02	-2.50e-02	1.49e-02	5.31e-02	1.002
## 871	5.99e-04	3.45e-03	2.08e-03	2.23e-03	1.42e-03	-1.03e-02	1.005
## 872	-2.49e-03	9.35e-03	1.16e-02	-1.38e-02	-1.14e-02	-4.68e-02	1.002
## 873	-9.32e-04	-5.20e-04	-1.47e-03	7.05e-03	-1.10e-02	3.47e-02	1.005
## 874	-2.43e-03	-3.25e-03	-1.16e-03	5.89e-04	-1.95e-03	1.28e-02	1.007
## 875	-3.61e-03	7.16e-03	-5.25e-04	1.20e-02	-7.50e-03	3.23e-02	1.005
## 876	1.12e-04	-1.04e-04	9.25e-04	9.15e-04	3.72e-04	1.69e-03	1.005
## 877	-2.35e-03	1.59e-02	-1.27e-02	8.22e-03	-1.04e-02	3.58e-02	1.005
## 878	-6.04e-04	-1.85e-04	6.77e-03	1.07e-02	-5.09e-03	2.89e-02	1.002
## 879	-2.37e-02	1.77e-02	1.09e-02	4.51e-02	-1.76e-02	1.31e-01	1.001
## 880	-1.22e-04	1.57e-04	-2.64e-05	-4.20e-04	-2.30e-04	-8.71e-04	1.006
## 881	-6.33e-04	1.40e-03	-1.80e-03	1.04e-03	-2.37e-03	7.55e-03	1.006
## 882	3.75e-03	-4.36e-03	6.18e-03	2.08e-03	-9.61e-05	-1.58e-02	1.004
## 883	-5.27e-05	3.93e-04	2.67e-05	5.89e-04	-3.33e-04	1.44e-03	1.006
## 884	6.81e-03	-1.09e-02	2.50e-04	-2.48e-03	3.09e-03	-3.39e-02	1.018
## 885	-6.26e-04	-1.34e-03	-1.13e-02	3.37e-03	1.78e-03	2.03e-02	1.005
## 886	-4.88e-03	-7.16e-03	3.78e-03	4.05e-04	6.27e-03	-5.40e-02	1.013
## 887	2.29e-02	-2.67e-02	-9.94e-03	3.18e-03	-9.40e-03	1.29e-01	1.009
## 888	-2.76e-03	2.10e-02	-2.54e-03	1.90e-02	-7.09e-03	4.14e-02	1.004
## 889	-1.53e-02	2.07e-02	-5.70e-03	2.32e-02	-1.33e-02	6.50e-02	1.000
## 890	9.02e-04	-3.11e-03	-1.51e-02	2.19e-02	2.82e-02	7.01e-02	1.005
## 891	-2.11e-05	3.83e-03	-1.64e-03	-3.60e-03	-7.45e-04	-2.22e-02	1.005
## 892	-7.45e-04	-1.81e-03	1.98e-03	3.35e-03	2.52e-04	6.17e-03	1.005
## 893	-3.25e-03	4.40e-03	-1.29e-02	1.94e-03	4.83e-03	3.27e-02	1.004
## 894	-4.99e-07	-6.01e-05	7.07e-05	7.50e-05	1.31e-05	5.19e-04	1.006
## 895	-6.80e-03	-7.44e-02	1.78e-02	2.76e-02	2.65e-02	1.25e-01	1.006
## 896	-8.11e-03	1.31e-02	-3.87e-04	-9.21e-03	4.79e-03	-4.00e-02	1.005
## 897	-8.27e-03	2.80e-02	-1.29e-04	-1.93e-02	5.04e-04	-4.66e-02	1.005
## 898	1.59e-02	-1.99e-02	1.51e-02	-1.78e-02	-3.93e-03	5.24e-02	1.004
## 899	4.14e-03	-2.86e-03	7.85e-03	7.36e-03	-1.30e-03	-1.35e-02	1.005
## 900	2.18e-02	-2.92e-02	2.72e-02	6.56e-02	-6.29e-02	-1.85e-01	1.006
## 901	3.20e-03	7.73e-03	-4.66e-03	7.59e-03	-1.50e-03	-1.52e-02	1.006
## 902	2.42e-02	2.69e-02	-8.05e-02	-1.04e-01	-8.64e-03	1.34e-01	0.999
## 903	-4.84e-03	-1.34e-02	1.86e-03	-4.01e-03	7.16e-03	3.40e-02	1.004
## 904	-3.75e-03	1.36e-02	-9.19e-03	8.47e-03	-5.53e-04	-2.19e-02	1.006
## 905	1.80e-02	-3.08e-02	-8.24e-03	4.80e-02	2.39e-02	-1.74e-01	1.006
## 906	-2.57e-04	6.71e-04	-2.59e-04	-2.40e-04	-1.41e-04	1.62e-03	1.006
## 907	-8.09e-03	-6.77e-03	-1.02e-02	-6.28e-02	-5.48e-03	8.79e-02	1.004
## 908	-1.22e-02	1.73e-02	-1.37e-02	-2.92e-02	-7.62e-03	5.64e-02	1.002

## 909	-4.05e-04	-2.02e-03	2.10e-03	2.41e-03	-1.15e-03	-5.41e-03	1.006
## 910	6.79e-04	-3.54e-03	4.43e-03	8.71e-03	1.30e-03	-1.24e-02	1.009
## 911	-4.22e-03	6.87e-03	2.53e-03	-2.01e-02	4.97e-03	3.09e-02	1.005
## 912	8.05e-02	-4.72e-02	-9.42e-03	1.44e-01	1.25e-01	-4.22e-01	0.958
## 913	-4.62e-02	7.00e-02	3.00e-02	5.44e-02	9.07e-02	-2.34e-01	0.993
## 914	-3.27e-04	2.48e-05	3.27e-03	1.60e-04	-1.54e-03	7.25e-03	1.007
## 915	4.38e-03	-3.96e-02	-2.13e-02	-3.26e-02	3.59e-03	-7.34e-02	1.007
## 916	7.18e-03	-9.26e-02	5.61e-02	-3.22e-02	4.32e-03	-1.70e-01	0.996
## 917	-1.64e-03	-1.57e-04	8.00e-03	3.85e-04	-1.33e-03	-2.35e-02	1.004
## 918	6.85e-03	-7.15e-02	-7.65e-03	-2.62e-02	2.86e-02	-1.29e-01	0.997
## 919	1.33e-02	-3.13e-02	-2.35e-02	3.90e-03	6.21e-03	-6.99e-02	1.005
## 920	2.81e-02	-6.73e-02	1.38e-02	-1.66e-02	-1.63e-05	-1.15e-01	0.998
## 921	5.80e-02	-1.46e-02	-1.11e-02	7.71e-02	7.91e-03	-1.55e-01	0.970
## 922	2.10e-03	5.09e-03	-3.23e-03	4.19e-03	6.30e-05	-7.92e-03	1.012
## 923	1.97e-02	-7.92e-02	5.52e-02	1.71e-02	-3.61e-02	-1.60e-01	0.991
## 924	1.03e-02	-3.57e-02	2.91e-03	3.68e-03	7.63e-03	-7.00e-02	1.007
## 925	3.76e-02	8.31e-02	-1.14e-01	3.94e-02	9.36e-03	-1.67e-01	0.988
## 926	-1.30e-02	-2.51e-02	7.68e-03	3.07e-03	1.06e-03	-4.23e-02	1.006
## 927	1.71e-03	-7.74e-03	2.68e-03	-1.44e-04	1.98e-03	-1.08e-02	1.015
## 928	-6.24e-03	5.08e-02	-1.05e-02	8.55e-04	-5.38e-03	7.43e-02	1.005
## 929	-2.00e-02	-1.98e-03	1.60e-03	4.90e-03	9.57e-03	-5.58e-02	1.000
## 930	6.65e-02	-6.73e-02	-9.55e-03	-6.84e-04	-6.79e-02	-1.84e-01	1.005
## 931	8.41e-04	5.27e-03	-2.80e-03	1.13e-04	7.05e-04	6.97e-03	1.010
## 932	8.32e-03	-1.43e-02	5.25e-04	1.03e-02	2.82e-03	-3.28e-02	1.005
## 933	1.48e-02	-3.63e-02	2.83e-03	6.86e-03	2.37e-02	-7.77e-02	0.996
## 934	-4.22e-03	-3.91e-02	-3.15e-02	-1.67e-02	2.32e-02	-1.08e-01	1.000
## 935	2.51e-02	-3.79e-03	-3.03e-02	5.55e-03	1.43e-02	-8.33e-02	1.004
## 936	1.93e-02	-9.78e-02	4.27e-02	-1.00e-02	7.00e-03	-1.43e-01	1.006
## 937	4.08e-02	-5.02e-02	5.04e-03	3.72e-02	3.83e-02	-1.40e-01	0.988
## 938	1.50e-02	-6.05e-02	3.74e-02	3.40e-02	3.93e-03	-1.04e-01	0.995
## 939	1.25e-02	-3.95e-02	4.35e-02	3.10e-02	-3.86e-03	-6.63e-02	1.010
## 940	-1.54e-02	-7.18e-03	-6.18e-04	-1.87e-03	8.83e-03	-5.88e-02	1.000
## 941	-2.56e-03	-2.55e-03	-1.15e-02	2.57e-03	-5.30e-03	2.56e-02	1.004
## 942	-1.10e-03	4.41e-03	-7.29e-04	-3.70e-03	-1.19e-03	-1.15e-02	1.005
## 943	-4.42e-05	-7.36e-04	5.23e-04	4.33e-04	4.22e-05	1.26e-03	1.005
## 944	6.68e-04	2.55e-03	2.98e-03	-8.20e-04	1.27e-03	-7.14e-03	1.007
## 945	-5.32e-03	2.16e-03	1.89e-03	-3.92e-03	-2.21e-02	-5.72e-02	1.001
## 946	-4.10e-03	-1.25e-02	1.12e-02	1.21e-02	-1.01e-02	3.65e-02	1.002
## 947	6.55e-03	1.81e-02	-1.57e-02	6.53e-03	-4.92e-03	5.49e-02	1.004
## 948	-8.00e-05	-1.20e-03	-1.32e-04	-1.47e-04	-1.81e-04	1.84e-03	1.006
## 949	-6.13e-05	1.90e-04	1.28e-04	-3.02e-04	-5.33e-06	-1.14e-03	1.005
## 950	1.03e-03	7.24e-03	-8.84e-03	-6.04e-03	-2.98e-03	-1.55e-02	1.005
## 951	5.44e-05	-5.94e-04	-1.09e-04	1.84e-04	2.70e-05	1.10e-03	1.005
## 952	2.10e-04	5.19e-03	9.11e-04	-2.11e-03	1.46e-03	-9.34e-03	1.005
## 953	7.73e-04	-1.11e-02	-2.49e-03	4.46e-03	-1.74e-04	1.97e-02	1.005
## 954	-3.52e-04	1.66e-02	-1.12e-02	-6.36e-03	8.40e-04	-3.02e-02	1.003
## 955	-5.10e-03	-3.13e-03	1.49e-02	-4.89e-03	1.95e-02	5.32e-02	1.001
## 956	-1.96e-03	-5.06e-04	-2.00e-03	1.55e-03	-1.76e-03	9.19e-03	1.007
## 957	-2.04e-03	-7.81e-03	1.14e-02	2.44e-02	1.06e-02	4.80e-02	1.001
## 958	-1.21e-02	4.33e-02	1.37e-02	-3.98e-03	4.69e-03	7.65e-02	1.003
## 959	-4.60e-03	1.68e-03	-1.05e-02	3.28e-03	3.32e-03	3.07e-02	1.002
## 960	-2.49e-03	4.38e-03	6.33e-04	3.84e-03	2.33e-03	1.06e-02	1.005
## 961	1.65e-03	-1.42e-02	-1.67e-04	-1.41e-04	-4.16e-03	2.28e-02	1.013
## 962	-9.79e-04	8.89e-04	3.67e-03	2.24e-03	-7.64e-04	6.76e-03	1.006

## 963	-1.46e-03	-8.37e-03	7.69e-04	-2.67e-03	-8.20e-04	1.20e-02	1.006
## 964	-3.64e-03	-1.24e-02	5.50e-02	3.33e-02	6.15e-03	7.12e-02	0.998
## 965	1.30e-04	-3.12e-03	8.86e-04	-2.54e-03	6.85e-04	-5.92e-03	1.007
## 966	1.22e-02	-1.11e-02	1.33e-02	-8.51e-03	-2.76e-02	-7.57e-02	1.004
## 967	-1.91e-03	9.22e-05	-2.84e-03	1.12e-02	-2.27e-02	3.98e-02	1.009
## 968	-6.13e-03	1.40e-02	1.08e-03	8.13e-03	1.93e-02	3.79e-02	1.005
## 969	-7.83e-04	6.80e-04	-5.81e-04	5.28e-04	4.36e-04	2.84e-03	1.005
## 970	-5.20e-03	5.65e-03	-7.06e-03	-4.70e-03	-4.19e-03	4.87e-02	1.003
## 971	-2.81e-03	4.61e-04	-4.78e-03	-2.69e-03	3.86e-03	1.34e-02	1.005
## 972	-1.34e-02	4.74e-03	-1.93e-02	-4.87e-03	1.15e-02	1.37e-01	1.003
## 973	1.82e-04	5.77e-05	-5.58e-05	1.13e-04	-2.55e-04	-6.99e-04	1.007
## 974	1.09e-03	-4.62e-03	2.59e-03	-6.25e-05	3.11e-03	-1.51e-02	1.006
## 975	5.09e-03	-4.53e-02	-9.49e-03	-2.64e-02	-2.13e-02	9.01e-02	0.992
## 976	-2.25e-03	-6.84e-03	5.62e-03	1.21e-03	2.33e-04	1.39e-02	1.006
## 977	-5.89e-03	1.22e-02	1.72e-02	9.08e-03	-3.27e-03	4.14e-02	1.002
## 978	1.41e-03	5.93e-04	1.56e-03	1.67e-03	-1.49e-03	-4.67e-03	1.006
## 979	-8.83e-03	1.44e-02	-3.01e-02	4.19e-02	-1.27e-01	1.87e-01	0.985
## 980	-8.41e-03	-2.78e-03	5.22e-04	6.85e-03	4.60e-04	4.81e-02	1.004
## 981	-4.66e-03	-2.56e-03	-1.65e-06	1.28e-03	3.58e-03	2.67e-02	1.007
## 982	6.13e-04	-1.06e-03	1.21e-04	2.94e-04	4.68e-04	-5.16e-03	1.021
## 983	-9.75e-03	2.15e-02	-6.42e-03	1.08e-02	-9.24e-03	4.98e-02	1.004
## 984	1.24e-02	-1.21e-02	-2.59e-02	-2.30e-02	-7.10e-03	-5.65e-02	1.000
## 985	-1.31e-03	1.25e-02	7.33e-03	1.23e-02	-6.44e-03	3.43e-02	1.005
## 986	6.99e-04	-6.91e-03	6.01e-03	2.56e-04	-3.04e-03	-1.12e-02	1.006
## 987	-7.75e-03	1.27e-02	-4.51e-03	-8.61e-03	-1.16e-02	3.78e-02	1.002
## 988	-1.27e-02	-3.22e-02	-1.35e-02	-2.79e-02	-5.66e-04	5.85e-02	1.000
## 989	-8.07e-03	1.32e-02	9.16e-05	-1.00e-02	-6.23e-03	4.26e-02	1.001
## 990	1.87e-03	-3.32e-02	1.72e-02	-4.70e-03	2.29e-03	-4.37e-02	1.010
## 991	-2.29e-03	-1.95e-02	-7.78e-03	1.04e-02	-7.10e-02	1.00e-01	1.002
## 992	3.55e-03	-1.76e-03	-2.18e-03	2.68e-03	2.21e-03	-1.26e-02	1.005
## 993	6.41e-03	-3.71e-02	1.78e-03	-3.22e-02	-3.53e-02	-9.80e-02	1.010
## 994	-3.81e-03	7.46e-04	-5.66e-03	-2.74e-03	5.99e-03	2.04e-02	1.006
## 995	5.63e-04	-5.77e-03	2.04e-03	-2.02e-03	2.96e-03	-1.14e-02	1.007
## 996	-3.95e-03	-5.05e-03	2.90e-03	6.91e-04	-1.51e-03	1.64e-02	1.007
## 997	-6.60e-02	-2.01e-02	2.62e-03	-3.02e-02	-2.36e-02	-8.77e-02	1.009
## 998	2.92e-03	-1.49e-03	-6.60e-04	-6.53e-04	1.50e-03	4.81e-03	1.011
## 999	7.86e-03	1.37e-04	9.20e-03	1.37e-02	3.89e-03	2.00e-02	1.009
## 1000	1.27e-02	-8.25e-04	-1.33e-03	-1.41e-03	1.67e-03	2.12e-02	1.019
## 1001	-2.92e-02	-3.19e-02	-4.70e-03	-6.53e-03	-2.44e-02	-7.36e-02	1.001
## 1002	-3.86e-02	1.04e-02	9.93e-03	-8.23e-03	1.06e-02	-6.82e-02	1.003
## 1003	-1.12e-02	-1.52e-02	8.21e-03	-1.81e-02	-1.30e-02	-5.61e-02	1.005
## 1004	-1.49e-02	1.95e-02	7.45e-04	4.62e-03	-7.94e-03	-3.65e-02	1.005
## 1005	1.74e-02	4.67e-03	-2.60e-03	4.73e-03	3.82e-03	2.24e-02	1.021
## 1006	3.73e-03	6.27e-03	-2.27e-02	5.83e-05	-2.23e-02	-5.39e-02	1.002
## 1007	-4.88e-02	6.76e-02	5.15e-02	8.33e-02	1.54e-02	-1.95e-01	1.000
## 1008	-5.92e-03	1.15e-03	-1.43e-02	-1.28e-02	3.55e-02	-6.54e-02	1.007
## 1009	-4.14e-03	-8.39e-03	1.25e-02	1.71e-02	-4.15e-02	5.32e-02	1.006
## 1010	-3.53e-02	-3.46e-03	4.90e-03	8.18e-03	-3.80e-03	-5.26e-02	1.006
## 1011	2.01e-02	5.96e-04	-1.63e-03	-2.37e-03	-4.80e-03	3.19e-02	1.009
## 1012	-3.00e-03	6.01e-03	2.37e-02	1.63e-02	1.06e-03	-4.90e-02	1.004
## 1013	5.18e-03	4.45e-03	-1.25e-03	-2.20e-03	6.28e-05	2.55e-02	1.022
## 1014	-5.55e-04	-4.46e-03	2.98e-03	1.14e-04	3.86e-03	-2.01e-02	1.006
## 1015	-3.00e-04	3.21e-04	1.84e-03	8.25e-04	-2.87e-04	-3.89e-03	1.012
## 1016	-7.12e-03	-1.72e-03	3.77e-04	-9.50e-04	-6.34e-04	-9.17e-03	1.013

## 1017	9.50e-04	-3.16e-04	9.26e-04	5.62e-04	1.13e-03	1.08e-02	1.015
## 1018	-1.81e-02	-2.13e-02	6.03e-03	-7.21e-03	-5.75e-04	-4.95e-02	1.005
## 1019	2.13e-02	5.21e-03	-9.96e-04	4.45e-03	4.07e-03	2.79e-02	1.012
## 1020	-5.08e-03	4.81e-03	-5.17e-03	-6.36e-03	6.01e-03	1.99e-02	1.003
## 1021	-9.87e-04	8.86e-05	-1.63e-04	9.20e-04	-1.59e-04	-8.89e-03	1.010
## 1022	-8.07e-03	-2.53e-02	6.88e-03	-1.44e-02	-1.05e-03	1.49e-01	1.065
## 1023	8.54e-03	7.21e-03	2.29e-03	4.48e-03	4.66e-03	2.99e-02	1.017
## 1024	-7.03e-03	-1.08e-03	1.72e-02	4.66e-03	-2.84e-04	-2.26e-02	1.005
## 1025	2.58e-03	4.91e-03	2.29e-03	-1.59e-03	-2.46e-03	4.79e-02	1.039
## 1026	-3.26e-02	-1.36e-03	1.84e-02	2.92e-03	-2.63e-03	-4.43e-02	1.008
## 1027	-1.66e-04	1.79e-02	7.09e-03	-3.47e-03	-2.82e-03	1.20e-01	1.063
## 1028	-2.75e-02	2.84e-03	1.94e-02	-1.42e-03	-2.30e-03	-4.13e-02	1.005
## 1029	1.32e-03	-7.12e-03	-1.46e-02	-1.57e-02	1.20e-03	2.93e-02	1.005
## 1030	-3.25e-04	-2.28e-03	3.40e-03	1.84e-03	9.03e-04	7.77e-03	1.011
## 1031	4.77e-04	-4.72e-04	-4.40e-04	-1.13e-03	-1.52e-03	-3.04e-03	1.006
## 1032	1.90e-03	-1.89e-04	-8.01e-03	4.58e-04	1.22e-02	2.89e-02	1.006
## 1033	1.37e-02	6.88e-03	8.02e-03	5.52e-03	-6.45e-04	7.45e-02	1.013
## 1034	4.39e-03	-1.83e-03	-9.86e-04	-2.27e-04	-6.98e-04	5.78e-03	1.008
## 1035	-1.11e-02	-1.35e-03	-1.20e-05	-2.80e-03	-2.14e-03	-2.15e-02	1.010
## 1036	4.60e-05	-4.37e-04	-4.01e-04	2.60e-04	-1.88e-04	-4.10e-03	1.016
## 1037	-1.27e-02	2.48e-03	-4.92e-03	1.43e-03	-8.45e-03	-3.73e-02	1.004
## 1038	-3.43e-03	4.80e-03	-2.99e-03	6.49e-03	1.34e-02	-2.04e-02	1.010
## 1039	-2.84e-02	-2.23e-02	-3.06e-03	-1.80e-02	-3.12e-02	-7.93e-02	1.006
## 1040	-1.87e-02	9.43e-04	2.34e-02	6.89e-03	-5.87e-03	-6.69e-02	1.002
## 1041	-7.95e-03	-6.11e-03	6.69e-03	5.44e-03	2.51e-03	-2.65e-02	1.006
## 1042	1.94e-03	2.20e-03	1.38e-04	-9.22e-03	5.52e-03	-2.59e-02	1.011
## 1043	8.79e-03	1.43e-03	-2.52e-03	4.22e-03	3.05e-03	2.78e-02	1.014
## 1044	9.99e-03	4.08e-03	1.34e-03	4.40e-03	4.94e-03	2.32e-02	1.010
## 1045	-1.11e-03	3.19e-03	-2.43e-03	2.49e-03	1.05e-03	-8.75e-03	1.006
## 1046	-2.84e-03	2.66e-03	6.45e-03	-2.85e-04	-4.39e-03	-1.84e-02	1.007
## 1047	-1.01e-02	1.38e-02	-5.77e-03	1.04e-03	7.09e-03	-4.19e-02	1.003
## 1048	-7.35e-02	-1.86e-02	2.22e-02	7.30e-02	-2.11e-02	-1.67e-01	0.978
## 1049	-8.57e-03	7.88e-03	-1.69e-02	-2.24e-03	2.57e-02	7.22e-02	1.001
## 1050	1.41e-03	-3.97e-03	-8.20e-03	-8.98e-03	-8.89e-03	-1.97e-02	1.016
## 1051	-2.85e-03	2.00e-02	3.01e-02	-8.96e-03	5.38e-03	-7.06e-02	1.000
## 1052	-3.77e-03	-7.74e-04	1.23e-03	3.34e-03	-1.33e-02	3.47e-02	1.006
## 1053	-1.42e-03	-1.57e-03	6.63e-04	-2.09e-04	-1.56e-03	-3.49e-03	1.007
## 1054	6.39e-03	1.54e-02	-1.06e-02	6.50e-03	-9.29e-04	-4.38e-02	1.001
## 1055	3.30e-02	2.40e-02	2.68e-02	6.09e-02	3.86e-03	-1.06e-01	0.996
## 1056	-1.09e-03	2.67e-02	-1.87e-02	-7.84e-03	9.58e-03	-5.42e-02	1.001
## 1057	-9.48e-03	-8.68e-03	4.81e-03	6.02e-03	6.56e-02	-9.84e-02	1.002
## 1058	-5.31e-03	4.99e-02	4.37e-02	4.24e-02	8.92e-02	-2.48e-01	0.983
## 1059	-1.76e-01	-1.50e-01	8.63e-02	-2.83e-01	2.36e-02	-6.96e-01	0.944
## 1060	6.41e-04	-2.25e-02	3.47e-02	3.83e-02	-1.45e-02	-9.45e-02	1.010
## 1061	2.22e-03	4.50e-03	-1.64e-03	1.16e-02	-4.22e-03	-2.88e-02	1.006
## 1062	-2.73e-03	1.09e-02	5.47e-05	2.00e-03	3.70e-04	-1.28e-02	1.010
## 1063	-1.64e-03	-1.06e-03	-3.08e-03	-2.58e-04	3.13e-04	7.76e-03	1.013
## 1064	-2.85e-03	6.64e-03	4.17e-03	8.64e-03	1.68e-03	1.90e-02	1.005
## 1065	8.31e-03	-3.10e-02	1.60e-03	-1.56e-02	1.85e-02	-5.96e-02	1.005
## 1066	-4.70e-02	5.92e-02	-8.19e-03	5.45e-02	4.93e-02	-1.84e-01	0.976
## 1067	2.12e-03	-1.07e-02	3.84e-03	4.00e-05	2.84e-03	-1.65e-02	1.008
## 1068	-7.64e-03	-2.18e-03	4.88e-03	-5.18e-03	5.39e-03	-3.64e-02	1.003
## 1069	-5.70e-03	2.91e-03	-3.89e-02	-3.03e-02	-1.73e-02	-5.28e-02	1.001
## 1070	-1.38e-02	1.87e-03	4.61e-03	7.20e-02	1.51e-02	-1.04e-01	1.001

## 1071	-6.70e-03	4.47e-02	7.55e-03	2.42e-02	1.58e-02	-7.12e-02	1.002
## 1072	5.63e-03	1.41e-02	-1.12e-02	1.81e-02	5.04e-03	-5.68e-02	1.004
## 1073	2.98e-02	8.30e-02	3.27e-02	2.03e-02	4.20e-03	-1.56e-01	1.002
## 1074	-4.93e-02	6.20e-02	3.63e-02	5.04e-02	1.03e-01	-2.00e-01	0.994
## 1075	1.04e-03	1.96e-02	-9.26e-04	-4.44e-05	1.24e-02	-3.78e-02	1.002
## 1076	-3.66e-02	2.30e-02	-1.07e-01	-5.53e-02	4.37e-03	1.63e-01	0.982
## 1077	9.06e-04	3.19e-03	-2.32e-03	1.09e-03	-4.53e-04	-7.70e-03	1.005
## 1078	8.31e-03	-3.79e-03	-2.92e-03	-1.97e-03	7.98e-04	1.31e-02	1.007
## 1079	2.72e-03	2.12e-02	3.80e-02	3.38e-02	1.18e-02	-6.68e-02	1.000
## 1080	6.55e-04	7.39e-03	1.98e-02	-4.39e-03	4.10e-03	-4.24e-02	1.004
## 1081	1.36e-02	-1.60e-05	-9.91e-03	-6.75e-04	4.25e-03	2.25e-02	1.006
## 1082	6.62e-03	7.51e-03	-4.26e-02	-5.16e-02	-1.21e-02	-7.15e-02	1.005
## 1083	9.59e-03	9.58e-03	8.31e-03	1.00e-02	-6.73e-03	-3.63e-02	1.003
## 1084	5.11e-04	1.06e-02	6.12e-03	4.67e-03	-1.36e-03	-2.67e-02	1.003
## 1085	-3.68e-03	3.20e-03	-3.15e-03	-1.62e-03	8.90e-03	1.67e-02	1.003
## 1086	3.97e-03	1.25e-02	-1.64e-02	2.67e-03	3.19e-03	-2.42e-02	1.008
## 1087	1.41e-02	2.93e-02	-1.85e-02	5.33e-02	-1.39e-02	-8.40e-02	0.994
## 1088	-1.97e-03	6.48e-03	-1.41e-02	1.00e-02	-6.07e-03	-4.33e-02	1.003
## 1089	-8.45e-04	5.74e-03	-1.45e-02	-5.61e-03	8.63e-04	-1.98e-02	1.006
## 1090	-1.73e-02	-5.17e-03	2.41e-02	8.51e-05	6.36e-02	-9.77e-02	0.999
## 1091	1.81e-02	6.47e-03	1.50e-02	1.34e-02	2.55e-03	-1.10e-01	0.999
## 1092	4.87e-03	1.32e-02	-5.95e-03	2.40e-04	4.28e-03	-5.07e-02	1.002
## 1093	1.84e-02	-6.53e-03	-1.64e-02	1.24e-02	5.93e-03	-5.41e-02	0.996
## 1094	2.67e-02	3.66e-01	-2.31e-02	7.12e-02	7.47e-02	-4.51e-01	0.959
## 1095	-5.56e-03	6.02e-03	-2.28e-03	-6.15e-03	1.13e-03	-1.30e-02	1.006
## 1096	-2.29e-03	-1.16e-03	1.49e-02	3.73e-03	3.73e-03	-2.30e-02	1.006
## 1097	-2.56e-02	7.67e-03	-4.49e-03	-1.40e-02	4.19e-03	-3.37e-02	1.008
## 1098	-1.18e-03	1.44e-02	-3.05e-03	-9.28e-03	1.15e-03	-2.16e-02	1.006
## 1099	1.54e-02	-1.20e-02	6.35e-03	1.76e-02	2.68e-03	2.70e-02	1.008
## 1100	-1.85e-03	-8.74e-03	-1.62e-02	1.39e-02	5.04e-04	4.02e-02	1.008
## 1101	-7.20e-05	-6.74e-05	1.02e-04	4.57e-04	-2.80e-04	1.95e-03	1.009
## 1102	-1.47e-02	7.44e-02	-7.93e-03	1.71e-02	3.88e-02	-1.45e-01	0.994
## 1103	3.30e-04	-6.08e-05	1.31e-04	-7.71e-04	8.83e-04	-4.35e-03	1.009
## 1104	-1.52e-03	-2.66e-04	-5.10e-05	-2.54e-03	1.34e-03	-6.32e-03	1.006
## 1105	2.82e-03	-5.58e-03	5.65e-04	3.20e-03	1.29e-03	9.89e-03	1.013
## 1106	1.12e-03	-1.23e-03	9.76e-04	3.08e-03	-5.38e-04	5.01e-03	1.006
## 1107	7.10e-04	2.01e-03	-1.59e-03	1.51e-03	2.75e-03	1.04e-02	1.010
## 1108	9.46e-03	1.67e-02	-5.41e-02	-2.55e-02	-1.37e-02	-7.97e-02	0.999
## 1109	-2.43e-03	5.13e-03	5.80e-03	8.85e-03	-9.35e-04	1.71e-02	1.005
## 1110	-2.56e-03	1.68e-03	2.37e-02	1.65e-02	-7.59e-03	-4.45e-02	1.005
## 1111	-6.60e-05	-7.19e-04	5.33e-04	-1.75e-04	-2.40e-04	-2.12e-03	1.006
## 1112	1.29e-03	2.33e-03	5.44e-03	6.43e-03	7.05e-03	1.90e-02	1.007
## 1113	-3.14e-03	-5.41e-03	1.36e-02	8.64e-03	1.85e-03	1.69e-02	1.009
## 1114	-4.04e-03	3.11e-03	1.09e-02	1.99e-02	-2.23e-03	4.21e-02	1.007
## 1115	9.70e-05	-2.12e-03	1.83e-04	2.45e-03	1.09e-03	5.73e-03	1.005
## 1116	1.18e-04	1.20e-03	-2.58e-05	1.07e-03	6.63e-05	-4.46e-03	1.006
## 1117	-7.26e-04	4.66e-04	8.92e-05	-2.41e-03	-3.58e-03	-8.70e-03	1.004
## 1118	-2.10e-03	-2.05e-03	5.74e-03	4.50e-03	1.36e-03	1.11e-02	1.006
## 1119	-4.49e-03	-1.86e-02	5.80e-03	7.10e-03	2.32e-03	2.85e-02	1.004
## 1120	-3.29e-03	3.97e-03	-5.01e-03	2.19e-02	1.05e-02	7.80e-02	0.998
## 1121	-1.21e-03	-2.37e-04	2.00e-03	-2.04e-03	-8.74e-04	-2.16e-02	1.003
## 1122	2.52e-05	-2.64e-04	2.10e-04	3.68e-05	-3.34e-04	-1.65e-03	1.008
## 1123	-2.25e-04	1.88e-03	-1.97e-03	1.94e-04	4.63e-04	-4.70e-03	1.005
## 1124	5.16e-04	2.62e-03	-8.02e-03	-7.77e-03	3.08e-03	-1.49e-02	1.005

## 1125	5.66e-03	-6.32e-03	-1.30e-02	1.89e-03	1.10e-02	5.18e-02	1.003
## 1126	9.41e-04	5.99e-03	-1.14e-02	-5.43e-03	-6.38e-04	-1.40e-02	1.006
## 1127	-6.47e-06	3.99e-07	6.72e-06	-1.94e-05	9.25e-06	-4.48e-05	1.005
## 1128	2.34e-04	1.56e-03	-1.42e-03	-7.73e-04	-1.52e-05	-2.59e-03	1.005
## 1129	-9.28e-06	-3.88e-03	3.01e-03	3.37e-03	4.65e-04	8.20e-03	1.005
## 1130	2.63e-03	-6.13e-03	-5.15e-03	-3.23e-02	1.26e-02	-6.26e-02	0.996
## 1131	2.22e-03	5.23e-03	2.21e-03	-1.28e-03	1.62e-03	-1.33e-02	1.006
## 1132	-8.61e-05	4.18e-06	3.90e-04	2.32e-04	-2.39e-04	2.21e-03	1.005
## 1133	-6.58e-04	1.71e-02	-2.30e-02	-1.40e-02	-8.04e-03	-4.00e-02	1.003
## 1134	2.55e-04	-6.23e-04	6.78e-04	8.36e-04	-3.16e-04	3.52e-03	1.005
## 1135	2.74e-05	8.31e-05	-1.11e-04	-2.05e-04	4.55e-05	-4.08e-04	1.005
## 1136	9.37e-03	3.49e-03	-1.30e-02	-6.14e-03	7.05e-03	-4.08e-02	1.003
## 1137	1.49e-03	-4.31e-03	-1.76e-03	2.76e-03	7.53e-04	1.21e-02	1.005
## 1138	8.14e-03	-1.87e-02	5.16e-02	2.72e-02	5.04e-03	7.62e-02	0.998
## 1139	-1.72e-02	3.16e-03	1.79e-02	-7.87e-03	1.60e-02	4.87e-02	1.017
## 1140	3.50e-05	-1.12e-04	2.46e-05	5.32e-05	5.09e-05	1.92e-04	1.008
## 1141	2.96e-04	2.20e-03	-3.47e-03	-1.38e-03	-1.60e-04	-4.83e-03	1.005
## 1142	7.77e-04	2.99e-03	3.05e-03	4.05e-03	-7.20e-04	1.08e-02	1.005
## 1143	-4.49e-04	-8.23e-04	-3.95e-05	-6.58e-04	-3.27e-04	-4.11e-03	1.006
## 1144	1.57e-04	2.35e-03	-4.93e-03	-9.56e-03	5.89e-03	-2.44e-02	1.004
## 1145	1.88e-04	-1.64e-03	7.41e-04	-1.19e-03	1.72e-03	-5.10e-03	1.006
## 1146	-1.14e-03	1.06e-03	1.14e-03	9.41e-04	1.22e-04	5.00e-03	1.005
## 1147	-1.98e-02	6.26e-04	-4.09e-02	2.47e-02	-9.62e-03	1.15e-01	1.003
## 1148	-7.48e-03	-1.32e-02	1.69e-02	2.31e-02	-2.24e-03	6.33e-02	1.003
## 1149	1.26e-03	-2.44e-05	4.27e-03	-4.17e-03	-5.86e-04	-1.12e-02	1.006
## 1150	-4.88e-04	4.07e-03	-6.32e-03	-5.37e-03	-1.40e-03	-1.56e-02	1.006
## 1151	-9.35e-03	8.79e-03	-1.11e-02	-1.19e-02	1.13e-03	-2.93e-02	1.003
## 1152	-1.85e-04	2.16e-04	-7.29e-04	1.49e-03	4.08e-04	5.50e-03	1.005
## 1153	-4.08e-05	-7.13e-03	6.21e-03	6.04e-03	5.32e-04	1.28e-02	1.005
## 1154	4.20e-04	-2.15e-03	4.08e-03	1.98e-03	2.62e-03	9.87e-03	1.006
## 1155	-2.56e-02	-1.30e-03	7.72e-03	3.22e-02	-3.14e-02	1.17e-01	0.999
## 1156	-2.68e-03	-7.69e-03	7.90e-03	6.99e-03	-2.19e-03	1.79e-02	1.005
## 1157	1.48e-03	5.32e-03	7.95e-03	9.14e-03	1.28e-02	4.08e-02	1.004
## 1158	1.60e-03	1.73e-03	-4.75e-03	-2.60e-03	8.38e-04	-1.13e-02	1.005
## 1159	8.24e-04	1.53e-03	-3.20e-03	-2.07e-03	2.22e-03	-1.01e-02	1.006
## 1160	8.62e-03	2.27e-02	-2.79e-02	-1.46e-02	4.80e-03	-6.01e-02	0.994
## 1161	-6.80e-03	4.37e-03	-5.75e-03	-6.95e-03	1.32e-03	-1.55e-02	1.005
## 1162	3.80e-03	-3.85e-03	-4.79e-03	2.65e-03	-5.13e-03	-1.81e-02	1.006
## 1163	-1.12e-02	-1.11e-02	2.96e-02	7.23e-03	-1.04e-02	-7.53e-02	1.005
## 1164	2.67e-03	-8.26e-04	-3.94e-03	1.46e-03	-5.00e-04	1.15e-02	1.005
## 1165	2.21e-03	-6.99e-03	1.95e-02	1.06e-02	6.64e-03	5.36e-02	0.999
## 1166	1.55e-03	-5.14e-03	-2.69e-03	-9.27e-03	9.38e-03	-2.67e-02	1.005
## 1167	1.21e-04	-4.46e-03	2.42e-03	-3.13e-03	4.02e-03	-1.25e-02	1.006
## 1168	6.03e-04	-7.23e-03	1.22e-02	8.02e-03	-2.88e-03	2.07e-02	1.005
## 1169	8.07e-04	8.41e-04	5.07e-03	3.61e-03	1.55e-03	9.83e-03	1.005
## 1170	-2.78e-05	-3.53e-04	-1.07e-04	1.23e-04	-1.08e-04	7.41e-04	1.006
## 1171	1.87e-04	1.17e-02	-9.47e-03	-1.35e-02	2.99e-03	-2.67e-02	1.003
## 1172	-2.92e-04	4.17e-02	3.63e-02	-3.36e-02	-2.42e-02	-1.48e-01	1.003
## 1173	2.72e-03	1.31e-03	-4.15e-04	7.91e-03	1.61e-03	-1.21e-02	1.005
## 1174	-1.95e-02	-3.51e-02	4.48e-02	-2.11e-02	-4.88e-02	1.46e-01	0.983
## 1175	2.90e-03	1.87e-02	-1.53e-02	3.08e-03	3.97e-03	-3.47e-02	1.002
## 1176	-1.11e-02	-9.78e-03	2.70e-02	2.70e-03	-1.33e-02	5.22e-02	0.998
## 1177	-1.68e-02	1.30e-02	8.99e-03	8.06e-03	-6.84e-03	6.69e-02	1.005
## 1178	-2.19e-04	-1.59e-04	-1.12e-04	-4.53e-04	7.22e-06	6.95e-04	1.006

## 1179	-5.99e-04	3.32e-04	1.79e-04	8.59e-05	-1.29e-04	-1.59e-03	1.005
## 1180	2.08e-04	1.99e-03	1.06e-02	9.20e-03	7.75e-04	-1.47e-02	1.012
## 1181	-3.38e-03	4.61e-02	-5.03e-02	-2.11e-02	9.28e-03	-7.03e-02	1.005
## 1182	-3.27e-03	6.32e-03	-3.06e-03	-7.60e-04	4.00e-03	-1.60e-02	1.005
## 1183	8.59e-03	-1.84e-03	-2.36e-02	-1.45e-02	6.32e-03	-4.22e-02	1.006
## 1184	1.66e-03	7.45e-03	-1.56e-03	4.35e-03	2.42e-03	-1.10e-02	1.007
## 1185	-2.94e-03	-3.69e-03	4.30e-03	-4.43e-03	1.03e-03	1.52e-02	1.006
## 1186	9.47e-04	4.25e-04	4.56e-03	3.76e-03	1.11e-03	-8.60e-03	1.005
## 1187	-6.60e-04	3.69e-02	-4.09e-03	3.62e-02	-2.24e-05	-7.30e-02	1.002
## 1188	1.89e-04	-1.09e-03	-2.42e-03	-2.17e-03	-1.33e-03	6.26e-03	1.005
## 1189	1.77e-02	-1.62e-02	4.12e-03	8.84e-03	1.24e-02	-5.34e-02	1.005
## 1190	8.09e-03	1.21e-02	-9.89e-03	3.00e-03	1.10e-02	-4.32e-02	1.003
## 1191	1.57e-03	1.12e-02	1.35e-02	1.81e-02	8.03e-03	-3.07e-02	1.007
## 1192	1.26e-02	6.40e-03	-1.40e-02	2.31e-03	1.03e-02	-5.36e-02	1.004
## 1193	-1.42e-03	3.49e-03	-6.33e-03	2.26e-04	1.36e-04	-7.99e-03	1.008
## 1194	-7.84e-03	-1.24e-02	1.65e-02	6.27e-03	6.66e-04	3.02e-02	1.003
## 1195	1.91e-02	-5.92e-02	3.42e-02	1.45e-02	-3.43e-02	-9.22e-02	1.000
## 1196	-2.27e-02	1.48e-02	2.03e-02	-1.63e-02	1.20e-02	6.68e-02	0.997
## 1197	2.68e-03	-2.71e-03	-2.75e-04	-1.13e-03	-3.85e-03	-8.70e-03	1.008
## 1198	-2.00e-03	-1.06e-03	3.48e-03	-5.68e-04	-9.61e-03	1.60e-02	1.009
## 1199	9.01e-04	1.12e-03	2.87e-03	4.52e-03	-2.08e-03	-6.48e-03	1.006
## 1200	-8.97e-03	-1.48e-02	-3.64e-03	-2.04e-02	5.91e-03	3.39e-02	1.005
## 1201	1.89e-02	1.14e-02	1.65e-02	7.74e-03	-2.46e-02	-9.07e-02	1.007
## 1202	5.38e-03	-4.62e-04	3.53e-03	-6.26e-03	-2.77e-04	-4.41e-02	1.013
## 1203	7.18e-03	1.74e-02	3.81e-03	-1.67e-02	1.42e-02	-1.78e-01	1.006
## 1204	-3.00e-02	4.95e-02	6.47e-03	3.92e-03	1.45e-01	2.44e-01	1.002
## 1205	-1.61e-03	3.56e-03	-5.80e-03	-3.40e-03	2.41e-03	1.17e-02	1.005
## 1206	-3.96e-03	-1.73e-03	-3.70e-03	-9.30e-03	1.70e-03	1.55e-02	1.005
## 1207	-1.56e-03	2.35e-03	-1.70e-04	7.75e-04	3.07e-03	7.87e-03	1.009
## 1208	1.78e-02	1.69e-02	1.04e-02	-2.06e-02	1.42e-02	-1.20e-01	1.007
## 1209	-2.79e-03	-2.00e-03	5.95e-04	-8.12e-04	-6.52e-03	1.69e-02	1.009
## 1210	5.22e-03	-6.30e-03	4.76e-03	8.21e-04	-9.85e-03	-1.90e-02	1.006
## 1211	2.35e-02	1.90e-02	6.34e-03	3.82e-03	4.46e-02	-9.75e-02	1.004
## 1212	4.50e-03	1.49e-03	1.38e-02	-8.22e-03	-1.08e-02	-3.42e-02	1.009
## 1213	4.07e-03	-2.76e-03	8.06e-03	5.76e-03	1.66e-04	-1.41e-02	1.006
## 1214	1.59e-02	1.10e-02	-3.54e-03	-6.23e-03	-2.16e-02	-5.48e-02	1.002
## 1215	-1.23e-03	2.89e-03	1.01e-05	-1.09e-03	2.90e-03	6.48e-03	1.007
## 1216	-2.50e-02	9.30e-03	1.30e-02	-1.49e-02	-4.84e-02	8.51e-02	1.003
## 1217	-1.88e-02	1.72e-02	-1.50e-02	-4.56e-03	3.49e-02	1.09e-01	0.979
## 1218	-1.75e-03	-8.66e-04	-1.74e-03	1.88e-03	-1.77e-03	1.58e-02	1.011
## 1219	-1.48e-02	8.48e-03	-1.39e-03	-6.20e-03	1.88e-02	4.10e-02	1.002
## 1220	3.89e-04	-3.40e-04	7.60e-04	2.12e-04	-6.57e-04	-1.54e-03	1.007
## 1221	-4.37e-02	1.08e-01	-1.06e-01	5.08e-02	4.92e-03	3.60e-01	0.869
## 1222	4.84e-04	-1.25e-03	5.22e-04	2.40e-04	1.50e-03	-3.15e-03	1.008
## 1223	-1.43e-02	7.67e-03	-3.62e-02	-2.98e-02	3.48e-02	1.02e-01	0.998
## 1224	1.14e-02	-1.71e-02	1.46e-02	7.77e-03	-1.94e-02	-4.72e-02	1.001
## 1225	5.13e-03	-3.14e-03	-1.28e-02	-1.07e-02	2.10e-02	-3.84e-02	1.008
## 1226	-3.42e-03	-2.60e-04	-2.87e-03	-2.79e-03	2.67e-03	8.20e-03	1.007
## 1227	2.22e-03	-2.51e-03	2.79e-03	1.04e-03	-3.51e-03	-7.15e-03	1.006
## 1228	6.95e-04	-4.40e-04	6.34e-04	2.92e-04	8.48e-04	-2.81e-03	1.012
## 1229	2.39e-02	1.59e-02	7.32e-02	-2.47e-02	7.07e-02	-1.74e-01	1.001
## 1230	-1.06e-02	-6.88e-03	1.31e-02	5.44e-03	-3.21e-02	5.33e-02	1.006
## 1231	-4.78e-03	8.98e-03	-1.95e-02	-2.20e-02	9.74e-03	3.68e-02	1.005
## 1232	4.23e-03	1.35e-03	3.45e-03	1.36e-02	1.66e-02	-2.44e-02	1.009

## 1233	1.17e-04	-1.55e-05	-7.96e-05	-1.16e-04	3.74e-04	-8.79e-04	1.009
## 1234	4.53e-05	9.45e-05	-4.77e-04	-7.03e-04	1.76e-04	1.05e-03	1.006
## 1235	-5.68e-03	2.74e-03	-5.78e-03	-7.26e-03	-3.54e-02	4.21e-02	1.006
## 1236	-2.63e-02	3.27e-03	-6.59e-02	-1.55e-02	-2.88e-02	2.06e-01	1.001
## 1237	8.83e-03	-8.46e-03	1.18e-02	9.16e-03	4.76e-03	-3.47e-02	1.003
## 1238	4.38e-03	3.95e-03	4.09e-03	1.49e-02	2.13e-02	-3.53e-02	1.008
## 1239	1.37e-02	-4.77e-03	-9.11e-04	-1.34e-02	1.91e-02	-1.25e-01	1.004
## 1240	1.22e-02	-1.12e-02	3.07e-03	5.71e-03	3.76e-02	-5.36e-02	1.004
## 1241	-2.53e-02	1.02e-02	1.94e-02	1.49e-02	3.05e-02	8.13e-02	0.999
## 1242	-1.31e-02	3.01e-02	-2.08e-02	-2.07e-02	1.32e-02	4.97e-02	1.004
## 1243	-9.10e-03	-9.98e-04	-6.86e-03	3.17e-03	-1.17e-02	4.92e-02	1.010
## 1244	3.57e-02	-1.24e-02	3.44e-02	3.45e-02	-1.35e-02	7.80e-02	1.010
## 1245	-1.71e-02	-3.01e-03	-6.09e-03	-1.14e-02	1.38e-02	4.99e-02	0.999
## 1246	1.56e-03	-2.77e-03	1.68e-03	9.26e-04	-1.59e-03	-5.38e-03	1.007
## 1247	-2.60e-05	2.42e-04	-1.97e-04	-3.82e-04	3.33e-04	1.04e-03	1.005
## 1248	-1.24e-02	-1.51e-02	-9.17e-03	-1.17e-02	-4.16e-02	9.80e-02	1.008
## 1249	1.56e-02	-4.22e-03	2.53e-02	4.71e-02	-8.39e-03	-7.10e-02	0.995
## 1250	-1.63e-02	1.50e-02	-4.07e-02	-2.03e-02	-3.92e-02	7.49e-02	1.006
## 1251	-7.46e-04	1.17e-04	1.71e-04	-7.67e-06	1.05e-03	2.80e-03	1.007
## 1252	-7.36e-03	-4.48e-03	1.28e-03	9.95e-04	-9.90e-03	4.31e-02	1.011
## 1253	-2.04e-02	3.49e-02	-1.33e-02	1.68e-03	3.38e-02	6.76e-02	1.002
## 1254	-8.42e-04	4.77e-03	-1.27e-02	-8.82e-03	-1.45e-02	2.32e-02	1.011
## 1255	-1.09e-02	-3.67e-03	9.47e-03	4.17e-03	-1.40e-02	5.07e-02	1.010
## 1256	1.39e-02	1.18e-02	-2.47e-02	-1.30e-02	5.39e-02	-8.76e-02	1.001
## 1257	-5.90e-03	1.04e-02	-7.44e-03	-8.65e-03	-4.66e-02	8.57e-02	1.007
## 1258	-2.09e-03	8.49e-03	-1.13e-02	-1.40e-02	2.05e-02	-7.39e-02	1.006
## 1259	5.23e-03	2.83e-03	1.73e-02	-9.28e-03	-1.32e-02	-4.88e-02	1.011
## 1260	-4.48e-03	7.10e-03	3.93e-03	1.10e-02	-1.05e-03	2.35e-02	1.006
## 1261	-3.42e-02	-9.92e-02	3.36e-02	-2.71e-02	-4.21e-03	1.62e-01	0.969
## 1262	4.36e-04	1.06e-03	-2.49e-03	-2.91e-04	-5.40e-04	-3.25e-03	1.006
## 1263	-2.00e-03	-7.28e-03	-5.36e-04	3.29e-03	-7.79e-03	-1.99e-02	1.006
## 1264	-1.61e-03	9.56e-03	2.53e-03	7.10e-03	4.93e-03	1.62e-02	1.007
## 1265	-1.58e-04	-5.00e-03	-9.30e-03	-4.56e-03	1.70e-02	4.48e-02	0.997
## 1266	3.71e-03	7.17e-03	-1.14e-02	-6.83e-03	-2.57e-02	4.02e-02	1.009
## 1267	-1.25e-03	2.15e-03	1.94e-04	-8.43e-04	2.76e-03	7.97e-03	1.007
## 1268	9.40e-04	6.25e-04	3.29e-03	-1.26e-03	-9.73e-04	-7.62e-03	1.009
## 1269	-3.78e-04	-2.13e-03	1.17e-03	-1.65e-04	4.39e-04	3.04e-03	1.006
## 1270	-1.17e-02	4.52e-03	-2.09e-02	-1.57e-02	2.89e-02	5.99e-02	0.996
## 1271	-2.58e-04	5.69e-04	4.16e-03	2.00e-03	1.12e-03	6.66e-03	1.006
## 1272	-1.04e-03	-1.81e-03	-2.95e-03	-1.00e-03	-1.52e-04	7.36e-03	1.005
## 1273	3.52e-03	-2.51e-02	1.69e-02	1.28e-02	-1.48e-02	-5.05e-02	1.005
## 1274	-2.39e-03	1.05e-03	-7.53e-03	2.05e-03	1.96e-03	1.33e-02	1.006
## 1275	-9.09e-04	1.38e-03	-4.77e-03	2.24e-03	6.01e-03	2.20e-02	1.003
## 1276	-9.42e-03	-6.07e-02	7.64e-03	-7.41e-02	-1.06e-01	1.66e-01	0.991
## 1277	-6.21e-03	1.12e-02	6.56e-04	7.91e-03	-4.92e-03	3.06e-02	1.003
## 1278	4.90e-03	1.00e-02	8.39e-03	1.65e-02	2.77e-02	-3.93e-02	1.009
## 1279	1.34e-03	6.07e-04	-4.70e-03	-3.83e-03	8.97e-05	-1.06e-02	1.005
## 1280	1.00e-02	-1.63e-02	7.05e-03	4.08e-03	3.85e-03	-3.38e-02	1.003
## 1281	-1.10e-02	2.61e-02	-5.71e-02	-5.56e-02	1.41e-02	1.06e-01	0.990
## 1282	2.31e-04	1.05e-03	-8.37e-04	3.82e-05	8.03e-04	-2.71e-03	1.006
## 1283	-6.53e-03	8.99e-03	5.79e-03	1.01e-03	-1.05e-03	2.75e-02	1.001
## 1284	1.14e-04	3.74e-03	-1.85e-03	-2.31e-03	4.87e-04	-7.74e-03	1.005
## 1285	2.58e-03	4.10e-03	-1.40e-02	-5.88e-03	4.18e-04	-1.95e-02	1.006
## 1286	-5.14e-04	-7.37e-04	1.54e-03	-5.43e-04	1.37e-03	4.52e-03	1.007



## 1287	-1.08e-02	1.14e-04	-3.34e-02	-2.68e-02	2.07e-02	6.77e-02	0.999
## 1288	5.68e-03	-1.40e-02	3.87e-03	2.24e-02	4.22e-02	-6.53e-02	1.007
## 1289	-2.02e-02	1.80e-02	9.38e-03	-3.73e-02	1.08e-02	6.27e-02	1.002
## 1290	2.17e-02	-7.07e-03	-6.33e-02	-7.81e-02	-2.57e-02	-1.26e-01	0.998
## 1291	-3.88e-03	-3.63e-03	2.46e-03	-8.79e-03	-2.03e-02	2.68e-02	1.008
## 1292	3.16e-04	-7.02e-04	-1.51e-04	-2.91e-04	2.31e-03	-4.15e-03	1.010
## 1293	1.35e-03	-2.94e-02	3.30e-02	1.26e-02	-4.98e-02	1.00e-01	1.001
## 1294	-2.48e-04	-1.05e-04	1.14e-04	2.78e-04	-4.00e-04	2.77e-03	1.005
## 1295	6.75e-03	-4.10e-02	4.21e-02	1.55e-02	2.44e-03	-7.16e-02	1.002
## 1296	1.63e-03	-7.22e-03	3.01e-02	-2.90e-03	-3.39e-03	-7.97e-02	0.999
## 1297	1.88e-01	5.26e-02	2.94e-02	1.71e-02	-1.89e-02	2.28e-01	1.006
## 1298	6.39e-03	-2.02e-02	-9.93e-03	-1.29e-03	9.99e-03	-4.49e-02	1.004
## 1299	4.92e-02	6.61e-02	-9.40e-02	1.25e-03	1.07e-03	1.26e-01	1.018
## 1300	-3.38e-03	5.56e-03	1.28e-02	3.21e-03	-1.12e-02	-4.84e-02	1.003
## 1301	-7.52e-03	-4.97e-04	-2.52e-03	1.10e-02	1.67e-03	-2.29e-02	1.008
## 1302	-4.86e-03	-1.45e-02	1.81e-02	1.34e-03	-1.77e-03	3.29e-02	1.003
## 1303	-2.70e-04	-2.63e-03	2.81e-03	-9.38e-04	1.81e-04	-5.43e-03	1.006
## 1304	-7.50e-02	-4.71e-02	-6.92e-02	1.21e-02	2.14e-02	-1.76e-01	0.989
## 1305	1.47e-02	-3.30e-02	-1.43e-02	-4.20e-03	9.77e-03	-8.98e-02	0.992
## 1306	-3.75e-03	6.76e-03	3.54e-03	7.37e-03	-2.20e-03	1.78e-02	1.005
## 1307	-5.53e-04	2.26e-03	-5.81e-05	1.06e-03	-7.28e-04	4.85e-03	1.006
## 1308	1.34e-03	3.66e-03	-9.01e-03	5.62e-04	1.46e-03	1.52e-02	1.009
## 1309	4.77e-03	-4.51e-04	3.31e-03	-1.33e-03	8.52e-03	-2.35e-02	1.005
## 1310	1.13e-01	1.12e-01	-1.68e-02	5.51e-02	-1.43e-02	2.18e-01	0.986
## 1311	1.73e-02	1.04e-02	-1.02e-02	1.74e-02	9.68e-03	-6.64e-02	0.986
## 1312	4.10e-03	-1.83e-02	4.98e-02	1.88e-02	3.14e-04	-5.69e-02	1.004
## 1313	2.60e-03	4.01e-02	-2.10e-02	-8.32e-03	6.42e-03	-6.10e-02	1.001
## 1314	-6.04e-06	1.90e-05	-5.52e-06	1.81e-05	-6.81e-06	4.78e-05	1.005
## 1315	4.39e-03	1.44e-02	-2.14e-03	9.83e-03	8.05e-04	-2.42e-02	1.004
## 1316	-8.69e-04	7.63e-03	9.92e-03	3.30e-02	1.30e-02	6.55e-02	0.990
## 1317	6.17e-03	3.43e-02	-1.04e-02	-9.87e-03	1.80e-02	-7.20e-02	0.991
## 1318	1.51e-03	-9.50e-03	-7.98e-03	-4.18e-03	2.07e-03	2.17e-02	1.006
## 1319	-2.10e-05	2.54e-04	-6.54e-04	2.30e-04	-4.22e-04	1.66e-03	1.006
## 1320	1.49e-03	-2.13e-02	2.93e-02	-4.61e-03	1.01e-04	-4.54e-02	1.002
## 1321	1.32e-03	-2.97e-03	5.65e-03	-4.78e-03	2.52e-03	-2.77e-02	1.003
## 1322	9.23e-03	4.26e-03	1.11e-02	7.31e-03	-1.32e-03	1.99e-02	1.008
## 1323	5.04e-03	-1.44e-03	-5.99e-03	-1.12e-02	8.18e-03	-3.29e-02	1.002
## 1324	4.85e-03	4.69e-03	-1.91e-02	-1.76e-02	4.25e-03	-4.08e-02	1.002
## 1325	-1.08e-02	-1.56e-02	-1.30e-03	-3.50e-03	1.13e-02	3.66e-02	0.999
## 1326	-3.50e-04	1.95e-02	8.35e-04	6.03e-03	3.46e-03	4.57e-02	1.001
## 1327	-1.28e-02	8.60e-03	-1.74e-02	-7.19e-03	3.26e-03	-2.61e-02	1.007
## 1328	5.43e-03	7.70e-04	-1.86e-02	-2.06e-02	7.83e-03	-4.77e-02	1.002
## 1329	-1.80e-03	6.50e-03	-2.20e-02	-2.43e-03	6.23e-03	3.09e-02	1.005
## 1330	-1.33e-02	-5.34e-03	-2.46e-02	-3.70e-02	7.76e-03	-8.56e-02	0.991
## 1331	-6.09e-03	-1.34e-02	2.17e-02	-3.41e-02	-5.54e-03	-1.26e-01	0.976
## 1332	-1.29e-03	9.49e-04	-2.12e-03	-6.57e-04	1.18e-04	8.45e-03	1.005
## 1333	8.13e-05	5.98e-04	1.44e-03	2.99e-04	-1.13e-04	-3.27e-03	1.006
## 1334	4.93e-03	-7.91e-03	-5.96e-03	-8.69e-03	6.12e-03	-3.29e-02	1.001
## 1335	1.91e-03	-1.57e-02	3.51e-03	3.11e-03	3.22e-06	2.73e-02	1.006
## 1336	-4.93e-05	2.74e-04	-4.47e-04	1.75e-03	-2.31e-04	4.23e-03	1.005
## 1337	4.02e-03	-1.48e-02	2.46e-03	-6.92e-03	4.29e-03	-2.66e-02	1.006
## 1338	-2.24e-03	-4.45e-03	2.05e-03	-3.13e-04	-3.16e-03	1.25e-02	1.006
## 1339	9.49e-04	-2.39e-03	3.20e-03	4.36e-03	2.92e-04	1.59e-02	1.006
## 1340	3.40e-04	8.24e-04	-1.13e-03	-2.55e-04	-1.09e-03	-6.45e-03	1.004

## 1341	-2.16e-03	1.15e-02	8.22e-03	-3.97e-03	-1.80e-03	-3.73e-02	1.005
## 1342	1.88e-03	2.01e-03	-2.58e-03	-3.92e-04	1.50e-04	6.51e-03	1.005
## 1343	7.36e-03	1.25e-02	6.82e-03	-2.18e-02	-6.13e-03	-6.55e-02	1.008
## 1344	9.33e-04	7.30e-03	-3.93e-03	-6.83e-04	1.07e-03	-1.42e-02	1.004
## 1345	-5.29e-03	4.47e-02	4.14e-02	2.26e-03	4.34e-04	-1.22e-01	0.978
## 1346	5.20e-03	1.23e-02	-8.02e-03	-3.31e-03	-2.02e-03	-3.58e-02	0.999
## 1347	1.43e-03	-8.63e-03	-1.62e-04	-2.54e-03	-1.47e-03	1.25e-02	1.005
## 1348	-1.40e-04	-7.21e-05	2.38e-04	-4.05e-05	1.71e-04	-5.74e-04	1.006
## 1349	2.84e-04	6.15e-04	-4.82e-05	2.85e-04	2.09e-05	-1.54e-03	1.005
## 1350	8.40e-02	-8.90e-03	-2.59e-03	3.60e-03	-2.99e-03	8.96e-02	1.026
## 1351	-2.57e-05	3.38e-03	-3.17e-04	-5.61e-04	-3.01e-04	-5.26e-03	1.005
## 1352	2.12e-03	-1.15e-02	3.16e-02	7.10e-03	2.77e-03	-4.38e-02	1.006
## 1353	-6.06e-03	1.25e-02	7.61e-03	3.35e-03	-1.15e-03	-2.22e-02	1.006
## 1354	-2.07e-03	-7.95e-03	6.67e-03	-9.30e-03	-3.86e-03	-3.00e-02	1.006
## 1355	9.05e-04	-4.96e-02	3.74e-02	2.02e-02	-8.98e-03	-9.64e-02	0.989
## 1356	-9.32e-02	-2.93e-02	1.02e-02	-2.53e-02	6.63e-03	-1.13e-01	1.009
## 1357	-3.05e-02	-3.58e-02	-5.35e-03	1.62e-03	5.91e-03	-6.20e-02	1.011
## 1358	8.53e-04	-6.77e-04	-3.74e-04	-1.48e-03	-8.47e-06	-6.65e-03	1.004
## 1359	-3.85e-05	-1.27e-04	5.57e-03	-4.94e-03	3.12e-03	-1.91e-02	1.006
## 1360	2.41e-03	3.02e-02	-5.22e-02	-1.17e-02	-2.36e-03	7.94e-02	1.005
## 1361	3.93e-03	-1.49e-02	6.11e-04	-9.87e-03	5.68e-03	-3.41e-02	1.002
## 1362	-1.06e-03	1.98e-03	-2.46e-03	-1.17e-03	-1.82e-04	6.27e-03	1.005
## 1363	-1.50e-03	7.47e-03	-1.65e-02	-5.02e-03	-1.66e-03	2.39e-02	1.005
## 1364	1.30e-04	4.72e-04	3.73e-03	-1.26e-03	-2.09e-03	1.27e-02	1.006
## 1365	2.53e-03	6.05e-03	4.31e-04	7.25e-03	-3.92e-03	-1.57e-02	1.004
## 1366	-1.71e-02	-1.44e-01	-2.22e-02	-1.01e-01	7.27e-02	3.01e-01	0.897
## 1367	1.84e-02	-4.00e-02	1.78e-02	-1.97e-02	3.25e-02	8.53e-02	0.998
## 1368	-5.79e-04	9.26e-03	-1.51e-02	-4.90e-03	-1.47e-02	2.83e-02	1.010
## 1369	-4.72e-03	8.09e-03	6.22e-03	-2.23e-03	8.33e-03	2.37e-02	1.004
## 1370	-1.75e-03	4.45e-03	5.05e-03	6.48e-03	-4.08e-03	2.94e-02	1.003
## 1371	-3.88e-03	6.90e-03	-1.18e-02	-2.50e-03	6.41e-03	2.21e-02	1.003
## 1372	1.11e-03	-1.86e-03	-2.99e-03	-5.89e-04	-4.02e-03	-1.06e-02	1.005
## 1373	6.89e-03	6.44e-03	-4.38e-03	-5.57e-03	-3.97e-02	6.41e-02	1.008
## 1374	-8.12e-05	8.38e-04	-1.15e-03	-8.51e-04	1.26e-03	-3.93e-03	1.010
## 1375	-1.03e-03	1.31e-03	1.36e-03	1.06e-03	-2.21e-03	7.09e-03	1.006
## 1376	-5.37e-03	9.39e-03	-1.04e-02	-4.79e-03	-1.21e-02	-3.25e-02	1.002
## 1377	-4.76e-04	-3.70e-03	-9.12e-04	-4.85e-03	-1.02e-02	-2.24e-02	1.006
## 1378	9.90e-04	-5.34e-04	3.51e-03	-1.44e-03	-3.08e-03	-1.04e-02	1.005
## 1379	6.73e-03	-1.26e-03	8.10e-03	6.12e-03	5.31e-03	3.77e-02	1.009
## 1380	6.60e-04	-7.78e-04	1.10e-03	1.09e-03	-6.74e-03	2.01e-02	1.010
## 1381	-1.61e-04	1.78e-03	5.38e-04	5.25e-04	1.10e-03	3.41e-03	1.007
## 1382	-1.37e-03	-5.43e-03	-1.53e-02	-1.58e-02	2.97e-03	-4.53e-02	1.002
## 1383	-2.57e-03	-7.69e-04	1.25e-02	3.47e-03	8.54e-03	2.37e-02	1.005
## 1384	-1.37e-03	-7.76e-03	2.28e-02	6.73e-03	1.14e-02	4.13e-02	1.003
## 1385	-2.37e-03	-2.92e-03	-2.10e-02	-4.71e-03	5.69e-03	3.28e-02	1.007
## 1386	-1.14e-03	-1.37e-02	-5.78e-03	-5.89e-03	-3.11e-03	2.80e-02	1.005
## 1387	-2.55e-03	8.76e-03	-7.90e-03	-1.25e-02	6.73e-03	3.28e-02	1.004
## 1388	1.07e-03	-8.07e-03	1.21e-02	1.35e-03	2.91e-03	1.86e-02	1.010
## 1389	7.00e-04	1.21e-02	-1.68e-02	-1.29e-02	-4.11e-02	6.53e-02	1.007
## 1390	3.13e-04	9.70e-02	-8.74e-02	-3.18e-02	-6.41e-02	2.01e-01	0.993
## 1391	8.02e-03	-8.07e-03	-1.17e-02	-1.25e-02	-9.10e-03	-3.92e-02	1.007
## 1392	-2.00e-03	-4.47e-03	1.19e-03	-3.23e-03	3.73e-03	2.46e-02	1.003
## 1393	1.13e-02	2.07e-02	1.45e-02	3.33e-02	-1.23e-02	9.69e-02	1.012
## 1394	-3.89e-03	1.75e-02	-6.86e-02	-1.22e-02	2.64e-02	1.02e-01	0.996

## 1395	-2.39e-03	1.20e-02	-7.43e-03	1.22e-02	1.59e-02	3.24e-02	1.003
## 1396	-2.96e-02	1.05e-02	-8.38e-04	-1.32e-02	-5.54e-03	-3.64e-02	1.007
## 1397	3.68e-03	-5.93e-03	2.71e-03	-1.95e-03	2.05e-03	-1.51e-02	1.006
## 1398	-4.99e-02	-4.45e-03	-9.32e-04	-9.87e-03	-1.29e-02	-6.22e-02	1.002
## 1399	2.47e-03	2.52e-02	7.46e-03	4.87e-03	1.31e-02	-5.03e-02	1.003
## 1400	-2.98e-02	3.11e-02	1.87e-02	5.83e-02	4.84e-02	-1.37e-01	1.003
## 1401	1.87e-02	1.42e-01	3.27e-02	3.64e-02	2.85e-02	-1.89e-01	0.990
## 1402	-6.24e-04	2.02e-02	7.50e-03	8.27e-03	-5.84e-03	-5.51e-02	1.003
## 1403	-5.24e-03	5.75e-02	3.15e-02	5.73e-02	2.12e-02	-1.45e-01	1.001
## 1404	-1.68e-03	-1.21e-02	-1.04e-02	-4.38e-03	2.50e-03	-5.66e-02	1.001
## 1405	1.14e-02	-3.74e-03	-4.00e-02	-2.52e-02	4.29e-03	-8.12e-02	0.990
## 1406	8.15e-03	-4.94e-03	2.57e-03	3.13e-03	-2.87e-02	3.54e-02	1.007
## 1407	7.38e-04	1.77e-04	-1.84e-04	2.21e-04	-4.01e-04	1.98e-03	1.006
## 1408	-1.09e-03	-1.48e-02	1.31e-03	-1.00e-02	-1.69e-03	3.74e-02	1.003
## 1409	-2.90e-02	-5.25e-03	1.24e-02	4.14e-03	1.29e-02	-6.66e-02	1.001
## 1410	-1.50e-02	9.47e-03	1.34e-03	-1.05e-02	2.61e-03	-3.39e-02	1.005
## 1411	-4.76e-03	6.17e-03	5.55e-03	-3.38e-03	1.02e-02	-3.91e-02	1.003
## 1412	-1.29e-03	3.96e-03	5.72e-03	-4.68e-03	7.60e-03	-2.86e-02	1.004
## 1413	-9.36e-03	8.01e-03	4.08e-05	-4.92e-03	1.17e-03	-2.01e-02	1.006
## 1414	-6.17e-03	9.80e-03	-5.03e-03	-9.83e-03	3.83e-03	-2.66e-02	1.004
## 1415	4.09e-04	2.95e-04	8.22e-03	-1.72e-03	5.57e-03	-1.87e-02	1.006
## 1416	3.28e-03	-1.11e-02	-4.70e-03	3.18e-03	-4.36e-03	2.45e-02	1.006
## 1417	-7.65e-03	3.30e-02	6.84e-03	2.18e-02	1.40e-02	5.02e-02	1.003
## 1418	-7.69e-04	-7.94e-04	-2.75e-03	-7.00e-04	1.35e-02	-1.79e-02	1.007
## 1419	-2.74e-04	2.01e-03	-1.54e-03	1.98e-03	2.47e-04	8.65e-03	1.006
## 1420	-3.37e-05	-1.61e-03	1.10e-03	2.08e-03	-4.59e-04	6.73e-03	1.006
## 1421	-6.97e-03	1.58e-03	-3.84e-03	-7.52e-03	-3.68e-03	-2.82e-02	1.003
## 1422	1.51e-03	-8.69e-03	7.10e-04	3.57e-03	8.25e-04	1.27e-02	1.014
## 1423	-7.86e-03	-9.21e-03	-1.75e-02	-4.19e-03	7.52e-03	3.75e-02	1.008
## 1424	-4.16e-03	1.01e-02	1.41e-02	8.84e-03	8.00e-03	2.58e-02	1.005
## 1425	-3.13e-04	-4.65e-04	-8.70e-05	-8.24e-04	1.10e-04	1.27e-03	1.006
## 1426	-1.23e-02	-1.12e-02	7.35e-03	-5.51e-03	1.79e-02	3.84e-02	1.003
## 1427	-1.14e-04	-1.66e-03	-2.46e-03	-2.58e-03	6.46e-04	6.41e-03	1.006
## 1428	4.30e-03	1.59e-02	9.73e-03	2.41e-02	-1.24e-03	-3.97e-02	1.006
## 1429	2.90e-02	2.36e-03	6.62e-02	-2.62e-02	6.21e-02	-3.26e-01	0.973
## 1430	1.88e-03	1.16e-04	-2.92e-04	2.26e-03	-3.16e-03	-6.37e-03	1.006
## 1431	5.91e-04	2.27e-03	9.95e-03	1.85e-02	-5.68e-03	-6.99e-02	1.006
## 1432	-1.21e-03	-9.75e-04	-8.63e-04	-8.58e-04	-8.31e-03	-2.44e-02	1.009
## 1433	-2.54e-03	3.67e-03	-6.74e-04	-2.39e-03	-1.36e-03	1.32e-02	1.006
## 1434	3.72e-03	2.01e-03	1.37e-02	3.20e-02	-1.01e-02	-7.72e-02	0.998
## 1435	-1.65e-03	-3.48e-03	4.87e-03	4.51e-04	4.69e-03	1.30e-02	1.007
## 1436	8.06e-03	1.35e-03	-3.76e-02	1.90e-02	-6.29e-02	-1.16e-01	0.999
## 1437	3.11e-03	3.50e-03	-4.55e-03	6.78e-03	1.14e-02	-2.24e-02	1.009
## 1438	1.77e-03	2.72e-03	-8.47e-04	1.11e-03	-1.46e-03	-7.22e-03	1.006
## 1439	-6.49e-03	-1.69e-02	-1.02e-03	-4.69e-03	8.97e-04	2.70e-02	1.005
## 1440	3.73e-03	-4.01e-03	-1.03e-02	-1.95e-02	3.17e-02	-6.93e-02	1.006
## 1441	3.24e-04	2.36e-03	-1.49e-03	-3.56e-03	3.26e-04	7.96e-03	1.007
## 1442	-2.35e-02	1.75e-02	-1.40e-02	-3.19e-02	4.37e-02	7.86e-02	0.998
## 1443	-6.11e-04	-5.27e-04	2.37e-04	1.13e-03	3.48e-03	7.46e-03	1.009
## 1444	-2.82e-02	-1.56e-02	3.09e-02	-3.29e-02	1.76e-02	8.12e-02	1.001
## 1445	2.20e-02	-7.91e-03	2.06e-02	5.72e-02	-3.79e-02	-1.12e-01	0.996
## 1446	2.79e-04	-1.91e-04	-1.31e-04	1.45e-04	-5.78e-04	-9.48e-04	1.006
## 1447	7.96e-04	1.00e-03	-7.97e-03	-7.88e-03	4.86e-03	-1.62e-02	1.012
## 1448	-3.38e-02	-2.42e-02	-5.32e-02	-3.64e-03	-6.53e-02	-1.39e-01	0.998

## 1449	-9.55e-03	1.92e-03	5.33e-03	2.22e-02	-1.20e-02	-3.83e-02	1.009
## 1450	-2.68e-04	9.34e-04	1.80e-03	2.45e-03	-1.52e-03	-1.07e-02	1.007
## 1451	-1.44e-03	2.28e-03	8.86e-04	8.30e-04	2.57e-03	7.79e-03	1.005
## 1452	-1.17e-02	-4.48e-03	-2.74e-04	4.14e-03	-1.90e-02	-5.61e-02	1.005
## 1453	-4.57e-03	8.44e-03	4.02e-03	8.27e-03	-2.38e-03	-1.98e-02	1.005
## 1454	-2.75e-02	1.98e-02	-4.20e-03	4.46e-03	5.37e-02	1.47e-01	1.004
## 1455	-3.35e-04	5.06e-03	3.15e-03	8.79e-03	-3.80e-03	-2.75e-02	1.006
## 1456	-2.67e-03	4.64e-04	-1.78e-03	8.74e-03	8.44e-03	3.07e-02	1.006
## 1457	-5.10e-03	1.74e-02	2.42e-02	6.01e-03	2.81e-02	6.72e-02	1.005
## 1458	-1.61e-03	-5.94e-03	4.26e-03	4.90e-03	-2.34e-03	-1.77e-02	1.005
## 1459	-5.50e-03	5.41e-03	1.75e-02	2.58e-02	-1.14e-02	-5.61e-02	1.000
## 1460	5.83e-03	7.16e-03	1.12e-02	-7.71e-03	-8.07e-03	-3.20e-02	1.009
## 1461	1.79e-04	2.80e-05	-1.27e-04	-2.35e-04	-4.44e-04	-9.41e-04	1.005
## 1462	-1.13e-02	-1.01e-02	-2.28e-02	-6.57e-02	2.99e-02	9.24e-02	1.000
## 1463	-1.22e-02	-3.46e-03	-7.39e-03	-3.45e-02	5.09e-02	9.38e-02	0.991
## 1464	6.25e-04	-2.75e-04	1.34e-05	-5.21e-04	1.39e-03	-3.26e-03	1.010
## 1465	-2.84e-04	7.51e-03	1.38e-03	1.35e-02	-4.57e-03	-3.61e-02	1.002
## 1466	-1.36e-04	9.34e-04	1.80e-03	1.00e-02	-7.92e-03	-2.70e-02	1.005
## 1467	-1.19e-02	8.78e-03	1.10e-02	9.82e-03	-9.45e-04	-4.26e-02	1.005
## 1468	2.38e-02	3.92e-02	5.99e-02	1.21e-01	-2.51e-02	-1.41e-01	0.997
## 1469	-2.95e-03	-8.27e-03	-6.88e-03	-1.51e-02	7.28e-04	2.01e-02	1.009
## 1470	2.95e-03	-2.42e-03	1.60e-03	9.79e-03	7.46e-04	-2.08e-02	1.005
## 1471	-2.86e-03	-1.09e-02	-1.93e-03	-9.24e-03	-4.27e-03	3.03e-02	1.002
## 1472	-1.77e-03	2.27e-02	-7.76e-03	-4.22e-03	2.17e-02	4.29e-02	1.002
## 1473	-1.43e-04	-5.75e-04	3.62e-03	-3.16e-03	6.59e-03	1.25e-02	1.007
## 1474	-2.96e-03	3.60e-03	7.71e-03	9.13e-03	-2.55e-03	-1.76e-02	1.006
## 1475	-7.56e-03	-3.65e-03	7.09e-03	1.66e-02	-8.07e-03	-3.12e-02	1.004
## 1476	4.41e-03	2.28e-02	1.79e-02	2.83e-02	-5.44e-03	-5.50e-02	1.001
## 1477	9.83e-04	2.16e-03	1.25e-03	4.97e-03	-1.35e-03	-1.03e-02	1.005
## 1478	1.89e-03	1.61e-02	1.63e-03	8.02e-03	-1.82e-03	-2.23e-02	1.007
## 1479	3.36e-03	-2.80e-03	9.17e-04	1.80e-02	-1.38e-02	-4.06e-02	1.000
## 1480	-1.18e-03	1.27e-03	-3.77e-04	1.94e-03	4.18e-03	-7.40e-03	1.008
## 1481	5.08e-03	-4.50e-03	7.69e-03	5.52e-03	5.88e-03	-2.32e-02	1.004
## 1482	-5.17e-04	-7.36e-04	6.88e-03	9.77e-03	-6.72e-03	-2.60e-02	1.005
## 1483	-1.02e-03	-1.57e-03	-2.53e-03	2.55e-03	3.69e-03	1.30e-02	1.006
## 1484	-9.41e-03	1.51e-02	1.62e-03	-2.82e-03	-4.67e-03	4.13e-02	1.000
## 1485	7.61e-04	1.78e-02	7.80e-03	1.46e-02	3.15e-04	-5.10e-02	1.005
## 1486	5.07e-04	2.78e-04	1.22e-03	1.23e-03	2.45e-04	-2.54e-03	1.006
## 1487	-1.93e-02	-4.82e-02	-4.92e-03	-2.52e-02	-1.76e-02	-1.56e-01	1.006
## 1488	-2.80e-03	-4.37e-04	5.38e-03	-1.83e-03	9.31e-03	1.62e-02	1.006
## 1489	-4.34e-03	1.99e-03	9.03e-03	7.56e-03	1.33e-02	2.27e-02	1.005
## 1490	2.58e-05	3.36e-05	3.73e-06	-3.20e-05	1.68e-05	1.85e-04	1.086
## 1491	1.02e-03	-4.87e-03	-7.19e-03	-6.84e-03	4.09e-03	1.54e-02	1.006
## 1492	-8.57e-03	-1.55e-02	1.95e-02	8.35e-03	5.43e-03	4.03e-02	0.999
## 1493	2.21e-06	-1.24e-03	-2.92e-05	5.41e-04	1.32e-03	-4.48e-03	1.006
## 1494	-4.67e-03	-7.77e-03	1.34e-02	-9.51e-03	6.61e-03	3.60e-02	1.002
## 1495	-3.07e-02	2.10e-02	-5.12e-02	-6.13e-02	2.33e-02	1.04e-01	1.002
## 1496	-1.45e-02	-5.24e-03	-3.00e-02	-6.95e-02	-5.16e-02	1.04e-01	1.003
## 1497	2.28e-01	-1.60e-02	9.06e-02	1.20e-02	4.47e-02	3.33e-01	0.948
## 1498	-2.57e-03	-5.89e-04	-3.94e-03	-1.89e-03	-1.22e-03	1.04e-02	1.006
## 1499	-1.70e-02	-4.08e-03	4.49e-03	-3.24e-02	1.88e-02	5.49e-02	1.004
## 1500	-5.04e-03	-4.20e-03	5.18e-03	2.45e-03	4.24e-03	2.02e-02	1.005
## 1501	-1.00e-02	1.38e-02	1.23e-02	-9.51e-04	1.49e-02	4.48e-02	1.001
## 1502	-1.09e-02	1.15e-02	-4.79e-03	-1.98e-02	1.38e-02	4.32e-02	1.004

## 1503	-7.66e-03	9.83e-03	1.10e-02	-8.05e-03	6.69e-03	3.79e-02	1.002
## 1504	-2.12e-02	-9.92e-04	-5.99e-02	-5.49e-02	3.48e-04	1.19e-01	0.993
## 1505	-3.57e-03	4.68e-03	-1.01e-03	-5.24e-03	5.25e-03	1.46e-02	1.007
## 1506	-2.05e-02	1.75e-02	2.48e-02	-9.16e-03	-1.11e-03	6.26e-02	1.001
## 1507	-6.06e-03	-3.49e-03	9.99e-03	8.84e-03	-7.21e-04	3.14e-02	1.001
## 1508	7.09e-03	9.69e-04	5.12e-03	1.82e-03	2.60e-04	1.96e-02	1.004
## 1509	-7.79e-03	2.45e-03	2.81e-02	-1.43e-02	2.08e-02	7.92e-02	0.997
## 1510	-1.57e-02	8.99e-03	1.03e-02	-1.68e-02	-3.67e-03	5.28e-02	0.999
## 1511	1.25e-03	-8.95e-04	2.68e-03	2.51e-03	3.36e-05	6.55e-03	1.005
## 1512	-1.33e-02	-1.08e-03	-4.38e-04	1.57e-03	2.88e-02	-4.78e-02	1.008
## 1513	1.28e-01	3.92e-02	2.61e-02	6.09e-02	-9.30e-02	1.88e-01	0.993
## 1514	4.87e-03	1.47e-03	-1.55e-02	9.07e-03	5.89e-03	-4.03e-02	1.004
## 1515	-1.70e-03	1.21e-03	3.78e-04	-2.59e-03	2.32e-03	4.96e-03	1.008
## 1516	-1.02e-02	1.31e-02	-5.99e-04	-2.48e-02	-4.11e-02	6.54e-02	1.007
## 1517	6.34e-02	-1.55e-02	-1.17e-02	-1.31e-02	8.06e-03	9.06e-02	0.993
## 1518	1.57e-02	-1.75e-02	3.10e-02	-2.45e-02	-7.05e-02	1.03e-01	1.001
## 1519	-3.22e-02	-5.35e-03	-5.81e-02	-8.62e-02	3.35e-02	1.20e-01	0.992
## 1520	1.97e-04	-1.57e-02	1.05e-02	-7.19e-03	7.37e-03	2.74e-02	1.003
## 1521	9.19e-03	3.59e-03	2.44e-03	4.23e-04	-3.39e-03	1.83e-02	1.006
## 1522	2.87e-02	-2.23e-02	4.21e-02	-3.46e-03	2.05e-02	8.39e-02	0.997
## 1523	-2.43e-02	3.23e-02	-3.65e-02	-3.71e-02	2.56e-02	7.66e-02	1.001
## 1524	-1.72e-02	2.76e-02	1.60e-03	-2.73e-02	5.34e-02	1.04e-01	0.992
## 1525	-2.12e-02	9.51e-03	1.43e-02	-1.11e-02	8.02e-03	5.12e-02	0.998
## 1526	5.07e-03	-1.28e-02	9.34e-03	6.57e-03	-1.09e-03	-1.86e-02	1.006
## 1527	-4.22e-03	1.86e-02	1.57e-02	-1.40e-02	-4.71e-04	5.25e-02	1.001
## 1528	-2.88e-04	-9.28e-03	2.16e-04	4.01e-03	2.35e-03	-1.88e-02	1.007
## 1529	-4.11e-03	-6.26e-04	-1.50e-03	-1.42e-02	-1.99e-02	2.75e-02	1.009
## 1530	-2.33e-03	5.24e-03	-2.72e-03	-5.13e-03	-1.07e-02	1.68e-02	1.008
## 1531	3.24e-03	4.18e-03	1.80e-03	4.90e-04	-5.90e-04	9.47e-03	1.005
## 1532	2.53e-02	6.11e-03	-4.27e-03	-1.99e-02	9.51e-03	4.60e-02	1.005
## 1533	-2.13e-02	1.48e-02	6.60e-03	-1.78e-02	1.27e-02	4.86e-02	1.003
## 1534	-3.91e-03	-2.21e-03	1.67e-02	-2.06e-02	4.72e-03	5.14e-02	1.004
## 1535	-7.85e-03	3.20e-03	6.40e-04	-1.51e-02	1.54e-02	3.71e-02	1.004
## 1536	-2.03e-03	9.10e-03	-1.86e-03	1.14e-03	1.06e-03	1.17e-02	1.006
## 1537	-1.60e-02	1.10e-02	-5.90e-04	-8.98e-03	9.83e-03	4.42e-02	1.002
## 1538	-2.01e-02	2.15e-02	9.68e-03	-2.78e-02	-6.62e-02	1.01e-01	0.998
## 1539	-1.85e-03	-9.61e-03	-3.63e-04	-7.53e-03	2.95e-03	2.08e-02	1.005
## 1540	-9.96e-03	9.94e-04	-1.45e-02	-1.42e-02	1.67e-02	3.89e-02	1.003
## 1541	-1.87e-03	2.36e-03	3.11e-04	1.32e-04	1.64e-03	6.30e-03	1.006
## 1542	-2.97e-02	2.67e-02	-8.33e-03	-2.00e-02	5.25e-02	9.54e-02	0.983
## 1543	-2.67e-02	1.40e-02	3.05e-02	-1.34e-02	1.23e-02	6.75e-02	0.995
## 1544	-7.73e-04	-3.94e-04	-1.10e-03	7.62e-05	8.33e-04	3.64e-03	1.010
## 1545	-6.96e-03	1.46e-03	6.14e-03	-6.41e-03	1.48e-02	3.20e-02	1.004
## 1546	-1.01e-02	-6.23e-03	-8.50e-03	-1.87e-02	3.40e-03	3.00e-02	1.005
## 1547	-4.27e-03	2.65e-03	-1.83e-03	-5.52e-03	3.44e-03	1.23e-02	1.005
## 1548	-3.76e-02	-2.88e-02	-5.55e-03	-8.12e-02	-1.04e-01	1.69e-01	0.989
## 1549	-1.86e-04	-1.70e-04	1.33e-04	-1.92e-05	-1.82e-05	6.70e-04	1.007
## 1550	-3.47e-03	1.12e-02	-2.02e-03	-1.11e-03	-2.19e-03	1.99e-02	1.006
## 1551	-5.60e-03	6.06e-03	-3.46e-03	-1.04e-02	1.19e-02	2.35e-02	1.006
## 1552	-3.02e-02	4.85e-02	-1.24e-02	-1.68e-02	6.38e-02	1.13e-01	0.998
## 1553	2.29e-03	-4.48e-04	2.60e-03	-4.05e-03	3.37e-03	1.57e-02	1.003
## 1554	7.99e-02	-2.35e-03	5.99e-03	1.35e-03	-4.96e-03	9.16e-02	1.018
## 1555	-1.47e-02	2.49e-03	-1.51e-02	-7.69e-03	-1.39e-02	-3.38e-02	1.006
## 1556	1.36e-04	-5.57e-03	8.13e-04	-4.07e-03	-1.16e-04	1.09e-02	1.006

## 1557	-8.99e-03	9.66e-03	4.53e-03	-4.37e-03	-3.87e-03	2.93e-02	1.005
## 1558	-3.76e-03	-9.26e-04	3.30e-03	-3.09e-03	4.64e-04	1.08e-02	1.005
## 1559	-1.31e-03	3.31e-03	1.41e-02	6.01e-03	6.38e-04	2.46e-02	1.005
## 1560	2.02e-02	3.64e-02	2.83e-02	1.33e-02	7.54e-03	-1.14e-01	0.990
## 1561	2.31e-03	1.99e-03	-8.76e-03	-7.44e-03	9.63e-04	-1.50e-02	1.007
## 1562	-3.16e-04	-3.87e-03	2.24e-03	-6.93e-03	-1.50e-02	-3.23e-02	1.004
## 1563	1.11e-03	5.90e-04	4.45e-03	-2.01e-03	-1.22e-03	-1.08e-02	1.009
## 1564	6.79e-04	1.01e-04	5.33e-04	-3.07e-04	1.88e-03	-9.02e-03	1.005
## 1565	3.70e-04	-1.14e-03	-6.69e-04	-1.14e-03	2.57e-04	2.25e-03	1.005
## 1566	-8.97e-05	-1.35e-03	-8.49e-04	7.47e-05	-1.03e-03	2.04e-02	1.004
## 1567	4.63e-03	-7.81e-03	1.53e-03	-1.30e-03	1.10e-02	2.90e-02	1.005
## 1568	-2.97e-02	-1.92e-02	-3.19e-02	-2.60e-02	-3.72e-02	-1.31e-01	0.988
## 1569	4.92e-03	-1.77e-02	1.72e-02	5.07e-03	8.24e-03	4.12e-02	1.009
## 1570	-2.22e-03	-1.87e-03	2.27e-02	2.35e-02	6.17e-04	-5.03e-02	0.999
## 1571	1.73e-04	-5.28e-04	-2.93e-03	3.01e-03	8.85e-03	2.31e-02	1.006
## 1572	4.79e-03	2.00e-02	-8.45e-03	5.82e-02	1.80e-03	-9.59e-02	1.002
## 1573	3.07e-03	6.60e-03	1.86e-02	6.63e-03	-2.83e-02	-1.04e-01	0.993
## 1574	-6.33e-06	-1.73e-02	-1.46e-02	-2.86e-02	-1.88e-02	-6.39e-02	1.009
## 1575	-4.21e-04	2.15e-04	-9.92e-05	1.40e-04	-2.95e-05	-7.28e-04	1.005
## 1576	-3.44e-04	7.47e-03	1.06e-04	1.93e-03	-5.26e-03	-1.78e-02	1.005
## 1577	-3.81e-03	3.46e-04	-1.46e-03	-3.19e-03	-3.30e-03	-1.08e-02	1.008
## 1578	9.86e-04	-3.84e-04	-3.31e-04	2.53e-04	2.51e-03	6.34e-03	1.006
## 1579	-1.30e-03	4.96e-04	2.42e-03	-1.95e-03	-7.20e-03	-1.53e-02	1.006
## 1580	-1.17e-02	2.85e-02	-5.89e-03	3.75e-03	-3.13e-02	-9.04e-02	0.995
## 1581	1.40e-04	-1.13e-03	-1.15e-03	2.87e-06	5.07e-04	2.74e-03	1.006
## 1582	5.65e-03	-1.23e-02	1.02e-02	-3.98e-03	1.11e-02	3.38e-02	1.005
## 1583	-2.00e-04	-6.66e-04	-6.83e-04	-1.71e-03	-2.51e-03	-6.91e-03	1.005
## 1584	-3.39e-02	-1.70e-02	-1.05e-02	-3.19e-02	-4.47e-02	-9.07e-02	1.002
## 1585	-1.97e-02	1.89e-03	-2.62e-03	-5.86e-03	-3.74e-03	-2.76e-02	1.005
## 1586	4.02e-03	2.56e-03	2.67e-03	1.84e-03	7.28e-04	6.91e-03	1.008
## 1587	1.81e-04	-3.19e-03	-3.49e-04	-2.03e-04	8.86e-04	5.94e-03	1.007
## 1588	-2.84e-03	-4.11e-03	7.95e-03	-1.83e-03	-2.05e-04	-2.00e-02	1.005
## 1589	7.56e-04	4.54e-02	-1.96e-02	6.70e-02	-5.03e-03	-1.31e-01	0.999
## 1590	-6.36e-03	1.76e-03	3.07e-04	-2.24e-03	-5.73e-03	-1.61e-02	1.004
## 1591	3.68e-03	-2.24e-03	3.30e-03	2.53e-03	1.59e-03	7.93e-03	1.005
## 1592	1.58e-03	-6.51e-04	4.73e-03	9.14e-04	-4.07e-03	-1.24e-02	1.004
## 1593	-1.53e-02	8.38e-03	-2.49e-03	-5.37e-03	2.92e-03	-2.95e-02	1.004
## 1594	1.99e-03	8.88e-03	-2.71e-03	-1.47e-04	6.34e-03	-2.16e-02	1.008
## 1595	-3.94e-06	8.61e-03	-3.61e-02	3.78e-03	-1.50e-04	8.09e-02	1.001
## 1596	-4.47e-03	-2.61e-02	2.06e-02	4.37e-03	-1.51e-02	5.22e-02	1.008
## 1597	9.54e-05	-3.45e-04	2.20e-03	7.80e-04	-9.28e-03	1.46e-02	1.009
## 1598	-3.87e-04	-1.41e-03	7.20e-04	1.74e-03	8.36e-04	3.42e-03	1.005
## 1599	-6.63e-03	2.92e-03	-9.10e-03	1.39e-03	2.55e-03	3.02e-02	1.001
## 1600	2.31e-06	2.09e-04	-4.09e-04	-2.18e-04	-2.70e-04	-7.13e-04	1.006
## 1601	-4.43e-05	2.57e-03	7.82e-03	-7.73e-03	1.15e-02	-2.92e-02	1.014
## 1602	-1.19e-03	-2.16e-03	1.23e-02	1.14e-02	-7.63e-03	2.78e-02	1.004
## 1603	-9.38e-04	-5.64e-03	5.32e-03	9.39e-03	3.30e-03	1.66e-02	1.004
## 1604	-3.45e-03	5.28e-03	-3.05e-03	-6.06e-03	4.23e-03	4.02e-02	1.001
## 1605	-4.14e-03	3.27e-03	-5.39e-04	1.15e-02	9.00e-04	2.54e-02	1.003
## 1606	2.00e-03	-8.19e-03	-2.62e-03	6.64e-04	-1.74e-03	-1.66e-02	1.004
## 1607	-1.60e-03	-1.44e-03	7.62e-03	8.97e-03	-2.55e-03	2.34e-02	1.004
## 1608	2.50e-03	-1.02e-02	4.72e-03	1.34e-02	7.37e-03	2.53e-02	1.004
## 1609	-4.70e-04	2.13e-04	3.60e-04	5.06e-04	-6.12e-04	3.26e-03	1.005
## 1610	-6.70e-03	-1.23e-02	1.27e-03	3.90e-03	-1.70e-03	6.80e-02	0.992

## 1611	3.97e-04	1.79e-03	-1.69e-03	-1.13e-03	-1.05e-03	-4.94e-03	1.005
## 1612	-5.62e-03	5.87e-03	6.24e-03	7.99e-04	9.37e-03	2.54e-02	1.003
## 1613	2.23e-04	2.71e-03	-5.84e-03	-4.26e-03	-1.16e-03	-8.86e-03	1.005
## 1614	1.10e-04	3.56e-03	-8.42e-04	-2.06e-03	-1.53e-03	-5.96e-03	1.007
## 1615	-1.30e-03	-1.66e-03	4.01e-03	3.88e-03	-6.41e-04	9.37e-03	1.005
## 1616	8.82e-03	-1.06e-02	5.70e-03	8.26e-03	-4.92e-03	3.22e-02	1.003
## 1617	1.39e-03	-4.97e-03	5.24e-04	-2.08e-03	2.33e-03	-8.62e-03	1.008
## 1618	1.36e-03	-1.11e-02	2.76e-03	4.94e-03	1.08e-03	1.94e-02	1.004
## 1619	-1.11e-04	8.49e-05	2.86e-04	2.90e-04	-1.38e-04	6.86e-04	1.006
## 1620	-2.84e-03	-1.32e-02	1.42e-02	4.11e-03	2.24e-03	2.28e-02	1.005
## 1621	1.43e-02	2.31e-02	1.77e-02	6.73e-02	-8.94e-03	1.02e-01	0.997
## 1622	-1.41e-03	7.76e-03	-1.53e-05	5.65e-03	1.29e-02	2.52e-02	1.007
## 1623	9.58e-03	-2.44e-02	1.22e-03	3.58e-03	9.54e-03	-4.59e-02	1.002
## 1624	6.72e-04	-6.17e-04	2.34e-03	-1.30e-03	1.06e-04	-4.44e-03	1.006
## 1625	-2.31e-03	-1.60e-02	1.92e-02	1.17e-02	9.52e-03	5.14e-02	1.001
## 1626	-9.34e-04	-4.76e-03	1.07e-03	2.52e-03	1.08e-03	7.39e-03	1.006
## 1627	-4.59e-04	-6.24e-03	-3.15e-03	7.30e-03	-1.55e-03	1.94e-02	1.004
## 1628	-3.58e-03	3.04e-03	-7.21e-03	3.25e-03	4.76e-03	2.23e-02	1.006
## 1629	-2.30e-03	1.23e-02	1.82e-02	2.00e-02	1.28e-02	4.31e-02	1.002
## 1630	2.83e-03	-1.89e-03	5.92e-03	1.09e-02	-2.46e-03	1.77e-02	1.006
## 1631	-5.60e-03	-8.63e-03	1.05e-02	5.37e-03	8.99e-03	3.27e-02	1.004
## 1632	-4.32e-03	4.70e-03	-5.64e-05	1.36e-04	1.09e-02	3.16e-02	1.001
## 1633	3.67e-02	-1.72e-02	-1.06e-02	7.02e-02	4.11e-03	-1.02e-01	1.024
## 1634	3.81e-03	-1.42e-02	3.17e-02	2.08e-02	-1.95e-03	4.81e-02	1.000
## 1635	-3.64e-03	-2.01e-02	2.82e-02	1.88e-02	1.19e-02	5.04e-02	1.005
## 1636	3.80e-04	-6.65e-04	-1.00e-02	7.64e-03	1.02e-02	2.56e-02	1.005
## 1637	2.08e-03	-2.78e-03	5.59e-03	4.03e-03	-1.18e-03	-1.71e-02	1.005
## 1638	-3.23e-04	-8.84e-03	-1.91e-03	3.57e-04	-5.23e-03	1.90e-02	1.005
## 1639	-4.77e-03	-1.20e-02	1.44e-02	1.14e-02	8.22e-03	3.08e-02	1.002
## 1640	-1.90e-03	3.93e-03	-1.45e-03	4.79e-03	2.34e-04	1.42e-02	1.004
## 1641	-4.21e-03	-1.04e-02	2.16e-02	1.34e-02	7.59e-03	3.35e-02	1.002
## 1642	8.63e-04	-1.78e-03	-2.14e-04	4.24e-03	6.97e-04	7.58e-03	1.005
## 1643	-1.30e-03	-5.09e-02	1.11e-02	4.26e-02	2.22e-02	9.57e-02	1.000
## 1644	-7.45e-03	-3.78e-03	2.04e-02	1.77e-02	-1.45e-03	3.52e-02	1.001
## 1645	4.23e-04	-6.64e-03	1.02e-03	5.67e-03	3.87e-03	1.24e-02	1.005
## 1646	2.89e-04	2.69e-04	1.44e-03	2.01e-03	1.64e-03	3.92e-03	1.006
## 1647	-1.21e-04	1.79e-04	1.92e-04	3.09e-04	-3.26e-04	9.92e-04	1.006
## 1648	-2.15e-03	6.35e-03	6.92e-03	1.68e-02	2.00e-02	4.53e-02	1.004
## 1649	-3.11e-03	8.04e-04	9.29e-03	1.22e-02	-6.96e-03	2.77e-02	1.004
## 1650	-1.16e-03	-3.16e-03	3.29e-03	2.13e-03	-1.29e-03	7.49e-03	1.005
## 1651	-2.86e-03	-1.81e-03	2.71e-03	5.75e-03	6.10e-03	2.30e-02	1.003
## 1652	-1.40e-03	-7.15e-03	-4.38e-04	4.27e-03	3.90e-03	1.28e-02	1.006
## 1653	-7.19e-04	1.71e-03	1.69e-03	8.13e-04	1.71e-03	4.49e-03	1.006
## 1654	-2.55e-03	5.86e-03	2.25e-03	3.91e-03	-5.74e-04	1.44e-02	1.004
## 1655	-3.11e-03	-1.24e-02	4.73e-03	1.77e-02	1.52e-02	4.30e-02	0.999
## 1656	6.05e-03	-3.88e-02	-6.21e-03	-3.34e-02	-2.91e-02	-1.10e-01	0.995
## 1657	4.58e-03	-3.43e-03	1.13e-02	1.24e-02	-2.48e-03	2.52e-02	1.004
## 1658	6.52e-03	5.17e-03	2.76e-02	3.53e-02	-3.19e-03	6.36e-02	0.989
## 1659	-3.27e-03	3.89e-03	1.61e-02	1.83e-02	8.58e-03	3.35e-02	1.004
## 1660	-6.63e-03	1.20e-02	5.63e-03	1.68e-02	-3.30e-04	3.60e-02	1.001
## 1661	-1.22e-03	-1.97e-02	2.36e-02	1.28e-02	1.42e-02	4.87e-02	1.006
## 1662	-2.68e-03	-3.02e-03	-1.59e-02	5.42e-03	8.78e-05	3.16e-02	1.004
## 1663	-3.10e-03	2.86e-03	3.21e-03	4.71e-03	-5.27e-05	1.77e-02	1.003
## 1664	8.47e-05	2.75e-04	1.86e-05	3.11e-04	-1.17e-04	5.77e-04	1.007

## 1665	-7.77e-04	-3.44e-03	3.87e-03	2.33e-03	7.63e-04	5.96e-03	1.006
## 1666	-2.31e-03	1.00e-03	1.36e-02	1.94e-02	1.14e-02	3.42e-02	1.004
## 1667	1.66e-02	-1.88e-02	8.43e-03	3.09e-02	2.17e-03	4.98e-02	0.999
## 1668	9.01e-06	-1.51e-04	-2.12e-04	-2.15e-03	-3.85e-03	-7.92e-03	1.008
## 1669	1.59e-05	9.00e-06	-3.44e-04	1.04e-03	3.69e-04	1.83e-03	1.006
## 1670	-1.27e-03	-8.47e-05	4.01e-03	4.78e-03	-9.43e-04	8.10e-03	1.006
## 1671	-1.20e-04	-4.93e-04	-4.07e-05	5.00e-04	1.33e-04	1.21e-03	1.005
## 1672	-3.31e-03	-1.01e-02	-4.23e-04	3.01e-03	-2.29e-04	1.69e-02	1.005
## 1673	5.94e-04	4.98e-03	-4.45e-03	-2.15e-03	-1.76e-03	-7.87e-03	1.005
## 1674	2.65e-03	3.30e-03	-7.06e-03	-2.26e-03	1.46e-04	-1.38e-02	1.004
## 1675	3.94e-04	-7.72e-04	-6.56e-04	-7.27e-04	4.97e-04	-2.04e-03	1.006
## 1676	-4.98e-04	-1.78e-03	3.30e-03	2.87e-03	-1.35e-03	7.65e-03	1.006
## 1677	2.03e-03	-9.44e-03	-4.26e-03	-1.06e-02	-1.49e-02	-3.24e-02	1.006
## 1678	-1.65e-03	4.39e-03	3.07e-04	2.52e-03	-2.50e-03	9.28e-03	1.007
## 1679	-2.60e-04	-5.80e-04	2.82e-04	9.09e-04	9.47e-04	4.07e-03	1.005
## 1680	-2.36e-03	2.21e-03	-7.28e-04	-7.91e-04	2.37e-04	6.60e-03	1.005
## 1681	1.11e-03	-1.53e-02	2.03e-02	2.08e-02	1.04e-03	3.35e-02	1.005
## 1682	-3.32e-03	-7.70e-03	-2.62e-02	1.66e-02	-3.21e-03	5.78e-02	1.004
## 1683	-2.33e-04	-1.45e-02	1.10e-02	6.57e-03	-6.56e-03	2.95e-02	1.003
## 1684	-3.10e-02	4.11e-02	-1.88e-03	-3.88e-02	-4.33e-02	1.13e-01	1.006
## 1685	-1.55e-03	-8.35e-03	-6.79e-03	-7.55e-03	-1.07e-02	-3.76e-02	1.003
## 1686	3.35e-02	-2.40e-02	-1.41e-03	5.72e-02	-4.16e-02	-9.63e-02	0.993
## 1687	1.63e-01	2.77e-02	2.82e-02	4.62e-02	-1.20e-02	2.02e-01	0.996
## 1688	-2.09e-03	-9.82e-03	1.63e-02	-2.99e-03	1.25e-04	2.87e-02	1.006
## 1689	-4.25e-04	2.18e-05	-3.56e-04	-4.56e-04	-5.10e-04	-2.26e-03	1.006
## 1690	-1.45e-03	-1.04e-03	-1.53e-02	-1.88e-02	8.15e-03	2.94e-02	1.004
## 1691	-4.13e-03	1.01e-02	6.38e-03	-2.19e-02	2.69e-02	5.62e-02	1.002
## 1692	-8.30e-03	1.68e-02	7.09e-03	-3.28e-03	-1.78e-02	-8.15e-02	0.998
## 1693	5.96e-03	-4.96e-05	1.99e-03	1.42e-03	3.27e-03	1.08e-02	1.004
## 1694	-4.77e-03	-2.46e-03	-3.71e-03	-3.65e-03	1.49e-03	-3.47e-02	1.007
## 1695	-1.17e-02	-3.01e-02	5.27e-02	-1.24e-02	3.37e-02	-1.06e-01	1.013
## 1696	-6.08e-03	-4.81e-03	3.41e-03	-3.38e-03	-1.43e-03	-1.41e-02	1.005
## 1697	-2.69e-03	-2.89e-03	1.34e-03	-2.36e-03	7.73e-04	-6.89e-03	1.005
## 1698	-4.89e-04	-4.54e-03	-1.13e-03	8.43e-04	-4.25e-04	7.50e-03	1.006
## 1699	-5.36e-04	5.23e-03	-6.48e-03	-8.29e-03	-1.47e-03	-1.78e-02	1.005
## 1700	-1.61e-05	-2.21e-03	4.92e-04	1.78e-03	-4.27e-04	5.07e-03	1.005
## 1701	2.87e-03	5.23e-03	-3.78e-02	-1.19e-02	-5.25e-03	-6.37e-02	0.993
## 1702	-1.45e-02	9.01e-04	-1.56e-03	-1.19e-02	-9.95e-04	-2.47e-02	1.003
## 1703	7.52e-05	2.12e-03	-7.25e-04	-1.63e-03	-4.32e-04	-4.40e-03	1.005
## 1704	2.37e-04	6.72e-04	-1.43e-03	-1.63e-04	-1.28e-05	-2.60e-03	1.005
## 1705	6.22e-05	-6.51e-04	3.67e-04	-2.38e-04	6.41e-04	-2.39e-03	1.006
## 1706	9.29e-05	-1.51e-03	3.69e-03	-1.70e-03	3.31e-03	-1.36e-02	1.005
## 1707	-2.42e-03	1.02e-02	6.60e-03	-7.72e-03	-3.36e-03	-2.77e-02	1.004
## 1708	-1.72e-02	6.02e-02	-3.11e-02	-9.92e-03	-7.11e-03	-1.31e-01	0.992
## 1709	1.22e-03	-1.41e-03	-1.10e-03	2.60e-03	2.87e-04	1.29e-02	1.005
## 1710	1.33e-02	1.12e-02	7.57e-03	-2.56e-02	-5.94e-03	-7.91e-02	1.003
## 1711	1.60e-03	-5.39e-03	3.21e-03	-8.62e-04	4.25e-03	-1.53e-02	1.006
## 1712	2.66e-04	1.30e-03	3.46e-03	5.98e-04	-5.50e-04	-7.86e-03	1.005
## 1713	7.40e-05	7.37e-04	-6.02e-03	-5.62e-03	-2.45e-03	-1.00e-02	1.005
## 1714	-2.82e-03	1.41e-03	-9.40e-03	2.86e-04	5.00e-03	2.42e-02	1.004
## 1715	-9.25e-04	1.46e-03	5.44e-03	-3.06e-03	-2.90e-04	-1.47e-02	1.005
## 1716	-1.52e-03	-1.77e-03	-2.33e-04	-2.55e-03	1.22e-03	8.89e-03	1.004
## 1717	6.88e-04	1.16e-03	5.00e-03	-1.70e-03	3.48e-03	-1.33e-02	1.005
## 1718	-7.63e-04	6.02e-03	-4.51e-03	-3.52e-03	1.98e-04	-1.00e-02	1.006



## 1719	-1.43e-03	-1.96e-03	9.12e-06	1.13e-03	-1.58e-03	1.24e-02	1.006
## 1720	3.87e-04	-2.24e-03	2.27e-03	1.25e-03	-5.36e-04	4.78e-03	1.006
## 1721	8.72e-07	4.13e-05	-3.74e-06	-3.22e-05	-1.14e-05	-8.25e-05	1.005
## 1722	5.99e-05	-4.19e-04	5.40e-04	5.69e-04	4.26e-04	1.20e-03	1.006
## 1723	1.11e-03	-3.33e-04	3.22e-02	2.33e-02	9.48e-03	4.17e-02	1.013
## 1724	5.42e-03	4.89e-03	-2.42e-02	-3.61e-03	2.95e-03	-3.54e-02	1.002
## 1725	4.59e-04	-2.70e-04	-6.28e-03	-5.07e-03	-5.21e-04	-9.49e-03	1.005
## 1726	2.31e-04	-1.05e-03	1.43e-03	2.22e-03	1.19e-03	5.40e-03	1.005
## 1727	4.13e-04	-3.59e-04	-1.58e-03	-2.18e-03	-5.63e-04	-3.35e-03	1.005
## 1728	4.76e-03	-1.04e-03	2.23e-02	8.58e-04	-4.88e-03	-3.31e-02	1.004
## 1729	1.02e-03	3.38e-03	-4.57e-03	5.78e-04	-2.95e-05	-1.00e-02	1.005
## 1730	1.54e-03	1.37e-03	-6.11e-03	8.09e-05	1.42e-04	-9.56e-03	1.006
## 1731	5.15e-05	-7.55e-04	-5.05e-04	1.52e-04	1.08e-04	1.50e-03	1.006
## 1732	-1.37e-03	-2.13e-03	-4.02e-03	1.43e-03	4.08e-03	-1.75e-02	1.004
## 1733	2.99e-04	-2.23e-03	-3.90e-04	6.32e-04	-3.71e-05	5.32e-03	1.005
## 1734	2.06e-03	-6.86e-04	1.69e-04	8.33e-05	-5.67e-04	3.09e-03	1.006
## 1735	-7.30e-03	2.38e-03	-2.84e-04	-2.17e-03	7.22e-04	-1.01e-02	1.006
## 1736	-2.81e-03	4.22e-03	2.21e-04	-1.80e-03	-6.46e-04	-7.20e-03	1.006
## 1737	-1.84e-03	4.96e-03	-7.44e-04	-7.47e-03	-3.45e-03	-2.45e-02	1.003
## 1738	-1.90e-03	2.13e-02	-8.20e-03	-1.23e-02	-4.19e-03	-3.19e-02	1.004
## 1739	-3.15e-05	4.88e-04	-3.76e-04	-5.12e-04	-1.79e-04	-1.60e-03	1.005
## 1740	7.33e-03	1.85e-02	-3.19e-02	7.26e-03	-8.92e-03	-5.31e-02	1.000
## 1741	1.72e-03	6.23e-03	-5.40e-03	1.09e-03	8.91e-04	1.56e-02	1.006
## 1742	1.11e-03	-1.41e-03	4.81e-04	-1.20e-03	2.27e-03	-9.77e-03	1.007
## 1743	5.49e-03	3.88e-02	-4.83e-02	-2.79e-02	8.57e-03	-7.51e-02	0.998
## 1744	-2.47e-03	-1.48e-03	4.52e-03	-1.55e-05	2.23e-03	-1.24e-02	1.006
## 1745	2.24e-04	1.19e-02	-1.31e-02	-8.50e-03	-2.85e-03	-2.09e-02	1.005
## 1746	-2.35e-03	-3.01e-03	1.03e-02	4.19e-04	-4.42e-03	1.86e-02	1.005
## 1747	5.46e-03	-1.61e-02	3.81e-03	4.59e-03	9.21e-03	3.18e-02	1.011
## 1748	-2.29e-03	-1.48e-02	1.36e-02	-2.11e-03	1.03e-03	-3.99e-02	1.006
## 1749	-1.32e-03	-4.49e-03	6.25e-03	1.69e-03	2.31e-03	1.61e-02	1.004
## 1750	-6.50e-05	4.04e-04	-3.03e-04	-1.85e-04	1.54e-06	-6.96e-04	1.006
## 1751	7.14e-03	-1.28e-02	1.51e-02	1.59e-02	1.00e-03	-3.22e-02	1.003
## 1752	8.06e-04	-8.00e-03	-6.53e-03	-1.32e-02	-3.10e-03	-2.69e-02	1.002
## 1753	-7.05e-03	6.22e-03	-1.91e-02	-9.81e-03	-6.09e-03	-4.63e-02	1.005
## 1754	1.18e-03	2.87e-03	-2.97e-03	-1.89e-03	-7.83e-04	-1.55e-02	1.004
## 1755	1.02e-03	-1.94e-03	2.89e-03	-1.14e-03	-4.62e-03	-1.68e-02	1.004
## 1756	2.09e-03	-1.02e-02	2.95e-02	6.99e-03	2.91e-04	-3.36e-02	1.005
## 1757	1.78e-04	-2.48e-03	7.72e-03	5.83e-03	3.06e-03	1.37e-02	1.005
## 1758	-3.88e-04	3.83e-03	-7.33e-03	-4.97e-03	-1.84e-03	-1.71e-02	1.004
## 1759	-8.61e-05	-3.63e-03	-3.00e-03	4.24e-03	-2.84e-03	1.83e-02	1.004
## 1760	4.25e-05	-7.92e-05	3.00e-03	3.74e-03	8.56e-04	6.34e-03	1.005
## 1761	1.48e-04	-1.31e-03	-2.08e-03	1.52e-03	-1.17e-03	7.52e-03	1.005
## 1762	1.41e-04	-9.56e-04	3.18e-04	9.50e-05	-4.70e-04	3.13e-03	1.006
## 1763	-1.17e-03	2.71e-03	-6.07e-03	-5.33e-03	3.30e-03	-1.61e-02	1.005
## 1764	1.52e-03	-1.61e-03	3.23e-02	3.12e-03	1.23e-02	-5.16e-02	1.002
## 1765	2.38e-03	-1.19e-02	-1.82e-03	8.61e-04	-4.97e-03	2.21e-02	1.006
## 1766	-8.40e-04	5.44e-03	2.23e-03	3.31e-04	2.04e-03	-9.40e-03	1.006
## 1767	-2.89e-03	2.35e-03	3.39e-04	-5.46e-04	-5.08e-04	-4.54e-03	1.007
## 1768	-1.73e-03	-5.16e-04	8.35e-03	-4.35e-03	2.74e-03	-1.84e-02	1.005
## 1769	-4.88e-04	2.78e-04	-4.80e-04	3.54e-04	1.16e-03	2.17e-03	1.006
## 1770	-4.67e-05	-3.97e-05	-7.23e-05	1.85e-04	1.88e-04	8.24e-04	1.006
## 1771	1.78e-03	-1.96e-03	1.01e-02	-1.72e-02	2.62e-03	-4.97e-02	1.014
## 1772	2.51e-03	-2.25e-03	3.08e-03	3.07e-03	-3.49e-03	-1.05e-02	1.004

## 1773	2.94e-03	-1.94e-03	9.82e-03	3.15e-03	7.97e-03	-2.20e-02	1.011
## 1774	-4.38e-03	-6.83e-03	1.43e-03	2.14e-02	-4.03e-02	7.40e-02	1.004
## 1775	-7.71e-03	-8.73e-03	-9.80e-04	3.10e-03	-8.96e-04	-3.80e-02	1.000
## 1776	5.57e-04	-3.86e-04	1.20e-04	5.94e-04	2.77e-05	-2.97e-03	1.006
## 1777	1.43e-03	-2.30e-02	2.67e-02	1.70e-02	-3.25e-02	-1.02e-01	0.997
## 1778	1.35e-03	2.71e-03	2.78e-03	1.81e-03	-6.42e-04	-6.28e-03	1.006
## 1779	1.63e-04	-5.93e-04	3.27e-03	1.79e-03	-9.59e-03	-1.66e-02	1.004
## 1780	-4.64e-03	-6.22e-03	2.59e-03	3.07e-03	1.38e-02	3.13e-02	1.005
## 1781	-2.54e-03	2.06e-05	6.36e-03	6.26e-03	-1.83e-02	2.72e-02	1.006
## 1782	4.28e-03	-2.57e-03	-1.21e-02	-8.85e-03	3.47e-02	-6.72e-02	1.005
## 1783	-4.34e-03	-1.08e-02	1.16e-02	-1.59e-04	1.43e-02	3.20e-02	1.006
## 1784	-4.74e-03	2.86e-03	-2.83e-03	4.26e-03	1.54e-02	2.98e-02	1.007
## 1785	-4.48e-05	-1.89e-05	8.36e-05	6.56e-05	-1.17e-04	2.47e-04	1.008
## 1786	4.01e-03	-2.34e-03	-1.41e-03	7.32e-04	6.35e-04	-1.64e-02	1.005
## 1787	2.86e-03	-1.76e-03	-8.94e-03	-1.28e-02	-9.29e-03	-3.49e-02	1.005
## 1788	-2.91e-03	2.88e-03	1.29e-03	1.13e-03	7.60e-03	1.89e-02	1.009
## 1789	-9.53e-03	2.36e-03	-6.45e-03	3.25e-03	1.04e-02	3.31e-02	1.005
## 1790	1.08e-04	-1.14e-03	1.24e-03	1.38e-03	-1.38e-03	-3.84e-03	1.007
## 1791	1.84e-04	-1.65e-05	2.16e-04	2.50e-04	-4.65e-05	-5.87e-04	1.005
## 1792	1.46e-02	1.14e-02	-1.80e-02	-2.29e-02	8.28e-03	4.69e-02	1.001
## 1793	1.93e-04	1.33e-03	-3.97e-03	7.20e-03	-1.54e-03	-1.72e-02	1.004
## 1794	-1.70e-02	4.96e-03	-5.64e-03	6.26e-03	-6.67e-05	-2.48e-02	1.011
## 1795	-2.29e-03	-2.23e-04	1.93e-03	-2.42e-03	1.58e-03	6.77e-03	1.005
## 1796	-2.69e-02	-4.26e-02	1.67e-02	-8.44e-02	1.30e-02	1.18e-01	0.992
## 1797	-8.13e-03	-5.24e-02	5.26e-02	1.11e-01	7.75e-02	-2.86e-01	0.983
## 1798	-8.33e-03	-5.95e-03	1.72e-03	4.23e-03	-8.23e-03	-1.86e-02	1.007
## 1799	-2.85e-03	-3.61e-04	-4.78e-04	-1.68e-03	-1.46e-03	9.48e-03	1.008
## 1800	-5.58e-03	-9.64e-04	-4.34e-03	-1.00e-02	7.87e-03	2.15e-02	1.005
## 1801	9.44e-04	-4.21e-03	2.27e-03	1.44e-02	-2.74e-03	-1.94e-02	1.011
## 1802	-2.04e-04	1.32e-02	5.13e-03	-7.20e-03	-2.47e-03	2.62e-02	1.006
## 1803	5.65e-03	-4.37e-03	3.87e-03	1.54e-02	-8.28e-03	-2.46e-02	1.005
## 1804	-2.75e-04	3.56e-03	1.14e-02	7.56e-03	5.62e-03	2.03e-02	1.008
## 1805	2.69e-04	-7.11e-04	6.49e-04	9.61e-04	-2.00e-04	-2.00e-03	1.005
## 1806	-7.88e-06	2.09e-06	3.06e-06	9.82e-05	-2.12e-05	-1.23e-04	1.010
## 1807	-8.58e-03	-4.58e-03	2.61e-02	2.34e-02	-4.26e-03	-4.40e-02	1.006
## 1808	-7.14e-04	1.77e-03	-4.48e-04	-2.90e-03	2.06e-03	5.45e-03	1.009
## 1809	2.48e-02	2.08e-02	4.10e-04	-2.53e-02	1.31e-02	6.48e-02	1.004
## 1810	1.07e-02	1.51e-02	-4.37e-03	-3.81e-03	7.95e-03	3.87e-02	1.004
## 1811	4.57e-05	5.79e-04	-2.05e-04	-4.78e-04	-2.53e-04	1.37e-03	1.006
## 1812	-6.90e-03	2.23e-03	-5.03e-03	-3.82e-02	1.21e-02	5.15e-02	1.007
## 1813	-3.88e-03	-1.59e-02	-1.72e-02	-2.09e-02	-1.53e-02	-4.69e-02	1.015
## 1814	2.20e-03	-1.41e-03	-6.41e-04	2.02e-03	-1.25e-03	-6.73e-03	1.004
## 1815	-2.08e-03	1.06e-02	7.81e-03	1.16e-02	8.00e-04	2.59e-02	1.007
## 1816	-2.24e-03	4.58e-02	-1.09e-01	-8.80e-02	-9.16e-02	1.72e-01	1.001
## 1817	2.44e-01	-5.61e-03	2.24e-02	3.35e-02	-2.24e-02	2.67e-01	1.038
## 1818	4.91e-01	8.97e-02	2.06e-02	8.81e-02	-6.79e-03	5.39e-01	1.036
## 1819	-4.75e-04	3.33e-04	1.48e-03	-2.78e-03	4.80e-03	1.19e-02	1.008
## 1820	2.26e-04	4.47e-02	-5.20e-02	5.50e-02	1.46e-02	-1.21e-01	1.008
## 1821	-3.48e-02	6.96e-04	-2.68e-02	8.84e-03	-9.63e-03	-6.50e-02	1.006
## 1822	7.20e-03	2.82e-03	-5.05e-03	-1.48e-02	5.36e-03	3.70e-02	1.006
## 1823	-4.73e-03	1.54e-02	-5.12e-03	-5.02e-03	9.48e-03	2.95e-02	1.007
## 1824	-1.93e-03	-8.07e-07	-4.45e-04	-4.08e-04	-2.64e-04	-2.20e-03	1.012
## 1825	1.42e-04	-8.07e-04	4.32e-03	2.03e-03	-5.34e-03	-1.75e-02	1.009
## 1826	3.04e-03	8.33e-02	-2.83e-02	3.73e-02	-2.55e-02	-1.26e-01	1.008

## 1827	-2.92e-02	-9.13e-03	-7.11e-02	-4.88e-02	2.72e-02	1.25e-01	0.992
## 1828	2.93e-03	-1.89e-03	4.14e-04	-2.24e-03	1.79e-03	6.59e-03	1.012
## 1829	-4.64e-03	-2.31e-02	-1.90e-02	-4.31e-02	1.30e-02	6.44e-02	1.004
## 1830	3.96e-03	-2.77e-02	7.42e-03	-4.12e-02	-8.72e-03	6.64e-02	1.007
## 1831	7.83e-03	7.55e-03	-2.52e-02	9.77e-03	-4.06e-02	-1.30e-01	1.005
## 1832	2.71e-03	1.72e-02	-8.67e-03	-1.28e-02	-3.39e-03	3.11e-02	1.006
## 1833	-2.65e-02	-2.37e-03	2.64e-02	3.70e-02	-1.82e-02	-7.81e-02	1.005
## 1834	-5.09e-04	3.58e-03	2.84e-02	2.46e-02	-9.81e-03	-5.96e-02	1.007
## 1835	9.19e-03	9.78e-03	-9.28e-03	1.07e-02	-2.92e-02	-6.03e-02	1.002
## 1836	-2.27e-03	9.34e-04	-4.07e-05	-5.16e-03	2.91e-03	9.96e-03	1.005
## 1837	-1.67e-04	-3.31e-05	2.88e-04	-5.38e-04	-6.25e-05	1.93e-03	1.007
## 1838	-3.18e-03	4.59e-03	3.57e-03	1.12e-02	-1.49e-03	-1.52e-02	1.006
## 1839	-9.81e-04	3.24e-03	-4.70e-03	-3.94e-03	4.40e-03	1.07e-02	1.007
## 1840	1.09e-03	-4.09e-03	4.28e-04	1.04e-03	2.74e-04	-9.02e-03	1.025
## 1841	2.57e-04	3.53e-03	1.09e-03	1.29e-02	-6.56e-03	-2.48e-02	1.003
## 1842	-6.19e-03	1.40e-03	-5.22e-03	-1.45e-02	4.60e-03	2.26e-02	1.005
## 1843	-2.19e-02	5.36e-04	-5.71e-03	-2.81e-03	1.16e-02	-3.01e-02	1.020
## 1844	-6.67e-03	4.52e-03	5.43e-03	-2.04e-02	-9.88e-04	3.35e-02	1.016
## 1845	-6.10e-03	-4.61e-04	-1.05e-02	-1.74e-02	1.12e-03	3.24e-02	1.001
## 1846	6.32e-03	2.11e-02	7.81e-03	1.04e-02	3.15e-02	8.92e-02	1.013
## 1847	-4.14e-04	-2.49e-03	6.17e-03	8.37e-03	-9.91e-04	-1.64e-02	1.006
## 1848	-1.03e-01	-2.10e-02	-4.74e-03	-3.61e-02	-6.84e-03	-1.14e-01	1.016
## 1849	3.05e-01	-6.50e-03	1.78e-02	1.05e-02	1.30e-02	3.31e-01	1.021
## 1850	-3.61e-03	9.98e-04	5.25e-03	1.65e-02	6.24e-04	-2.25e-02	1.007
## 1851	-4.76e-04	-9.20e-04	-1.15e-03	-3.20e-03	3.43e-04	4.08e-03	1.005
## 1852	-8.33e-03	-9.82e-03	-4.15e-03	-1.61e-02	4.71e-03	2.79e-02	1.005
## 1853	1.17e-02	-2.27e-02	3.20e-02	-7.91e-03	2.24e-02	8.85e-02	0.995
## 1854	7.87e-03	3.38e-03	6.20e-04	-6.14e-04	-2.23e-03	1.37e-02	1.006
## 1855	-4.04e-04	-3.04e-03	-2.30e-04	2.65e-03	-5.47e-03	-1.33e-02	1.007
## 1856	3.07e-02	5.03e-03	-7.15e-03	-5.04e-02	-6.92e-02	1.12e-01	0.999
## 1857	-2.93e-05	4.66e-06	1.79e-04	1.98e-06	6.39e-05	2.86e-04	1.007
## 1858	3.48e-04	-2.70e-02	-4.34e-02	2.21e-02	5.10e-03	-1.15e-01	0.988
## 1859	-8.54e-03	2.86e-02	-9.63e-03	2.01e-02	-1.80e-02	-6.13e-02	0.996
## 1860	-6.23e-03	4.36e-03	2.03e-03	-1.39e-02	-8.11e-04	2.31e-02	1.004
## 1861	-4.21e-03	2.38e-03	1.16e-03	9.43e-03	-1.41e-03	-1.74e-02	1.008
## 1862	-1.34e-03	6.82e-03	-6.03e-03	-5.13e-03	2.44e-03	1.16e-02	1.006
## 1863	6.94e-04	-2.16e-02	-8.71e-04	-5.95e-03	9.70e-04	-4.10e-02	1.010
## 1864	-9.68e-04	-4.80e-04	-4.96e-04	-3.79e-04	-3.29e-03	-6.62e-03	1.007
## 1865	-4.50e-03	6.31e-04	7.81e-03	1.39e-03	-7.29e-04	-1.35e-02	1.008
## 1866	3.79e-02	7.09e-02	-7.98e-02	-1.14e-01	-2.44e-02	1.75e-01	0.997
## 1867	-3.97e-04	8.35e-04	-2.04e-04	-1.23e-03	9.31e-04	2.27e-03	1.006
## 1868	4.21e-03	-8.90e-02	9.39e-02	1.51e-01	8.26e-02	-3.19e-01	0.987
## 1869	-2.83e-04	6.42e-04	-8.01e-04	-1.23e-03	1.11e-03	2.32e-03	1.006
## 1870	1.71e-03	5.60e-04	-3.77e-03	-4.26e-03	-3.05e-04	7.03e-03	1.009
## 1871	-4.87e-04	-7.11e-04	6.08e-04	1.76e-03	-5.57e-05	-3.25e-03	1.005
## 1872	4.34e-03	1.14e-02	-8.34e-03	-1.13e-02	8.12e-03	2.38e-02	1.005
## 1873	1.31e-04	-3.77e-05	7.40e-05	1.16e-04	-3.47e-04	6.45e-04	1.009
## 1874	4.77e-03	-5.28e-03	-1.76e-03	-6.19e-03	2.32e-03	1.35e-02	1.005
## 1875	-4.01e-03	-6.73e-03	1.82e-02	3.01e-02	5.94e-02	-1.57e-01	1.005
## 1876	2.44e-02	1.20e-02	-1.29e-02	-8.69e-03	1.06e-02	3.88e-02	1.005
## 1877	-6.30e-04	1.57e-02	-7.33e-03	1.10e-02	1.61e-03	-2.66e-02	1.005
## 1878	-1.60e-02	-2.04e-02	1.28e-02	3.00e-02	7.76e-03	-5.54e-02	1.005
## 1879	7.48e-03	-1.12e-02	-1.13e-02	8.69e-03	-2.19e-03	-2.95e-02	1.006
## 1880	-3.18e-03	1.04e-02	1.62e-02	4.46e-03	4.37e-03	3.47e-02	1.002

## 1881	-5.20e-04	4.12e-04	5.62e-05	-2.11e-03	1.09e-03	3.92e-03	1.006
## 1882	1.11e-02	-1.68e-02	3.77e-02	-6.67e-03	5.05e-03	7.08e-02	1.012
## 1883	-2.57e-03	-3.65e-03	-9.29e-04	-6.19e-03	3.74e-03	1.16e-02	1.006
## 1884	-8.40e-03	1.42e-02	-2.53e-02	-4.63e-02	1.82e-02	1.01e-01	1.009
## 1885	1.34e-03	4.23e-03	-6.25e-03	4.85e-03	-2.88e-03	-1.66e-02	1.008
## 1886	-5.26e-03	7.25e-03	-2.42e-03	-1.40e-02	-5.50e-04	2.16e-02	1.006
## 1887	-3.26e-04	-2.19e-04	-3.81e-04	-1.51e-04	-3.38e-04	-1.01e-03	1.009
## 1888	9.21e-02	-4.03e-03	2.23e-02	2.98e-02	1.16e-02	1.04e-01	1.022
## 1889	-6.09e-04	-1.17e-02	3.00e-03	-1.51e-04	7.45e-03	-3.51e-02	1.003
## 1890	-1.24e-03	7.44e-03	4.37e-04	8.78e-03	-4.58e-03	-1.79e-02	1.005
## 1891	1.52e-02	-1.69e-03	-3.00e-02	-4.02e-02	1.72e-02	7.47e-02	1.006
## 1892	-1.93e-02	3.28e-03	-8.79e-03	-3.17e-02	1.58e-02	6.99e-02	1.009
## 1893	-8.44e-03	1.26e-02	2.60e-02	2.37e-02	-7.82e-03	-5.56e-02	1.009
## 1894	5.68e-06	-9.10e-06	8.54e-06	-2.44e-07	1.49e-05	3.93e-05	1.006
## 1895	-1.93e-03	1.61e-03	-3.88e-03	-5.36e-03	1.93e-03	7.27e-03	1.006
## 1896	7.77e-04	5.84e-03	-1.23e-03	-1.02e-02	1.32e-02	3.93e-02	1.005
## 1897	-6.26e-03	2.63e-02	3.00e-02	-2.23e-02	9.80e-03	8.28e-02	0.990
## 1898	-5.91e-02	-1.09e-03	2.74e-03	5.18e-03	-2.50e-02	-8.76e-02	1.012
## 1899	-1.39e-02	-5.02e-03	2.94e-03	-7.19e-04	-8.87e-04	-1.80e-02	1.010
## 1900	-9.14e-03	-2.47e-03	-6.28e-03	-1.14e-03	-7.65e-05	-2.35e-02	1.005
## 1901	-2.13e-04	-2.49e-02	6.99e-03	-4.22e-02	4.11e-03	7.58e-02	0.994
## 1902	1.27e-02	1.74e-02	-2.82e-03	-3.43e-02	1.26e-02	7.66e-02	0.998
## 1903	-9.01e-03	-2.62e-03	1.11e-02	-1.87e-02	9.90e-03	3.29e-02	1.004
## 1904	-2.22e-02	2.73e-03	-5.72e-03	2.75e-02	1.75e-02	-1.09e-01	0.999
## 1905	3.14e-04	2.39e-03	-4.01e-03	2.43e-03	-1.02e-03	-1.10e-02	1.007
## 1906	-9.01e-05	1.77e-03	-3.71e-03	-4.05e-03	2.86e-03	1.48e-02	1.009
## 1907	1.16e-03	-1.37e-03	-1.65e-03	-1.22e-03	9.01e-05	3.76e-03	1.008
## 1908	6.59e-03	-3.91e-03	-9.17e-04	-4.22e-03	2.40e-03	1.89e-02	1.009
## 1909	-9.77e-05	-1.49e-04	6.34e-03	4.77e-04	3.79e-03	1.23e-02	1.006
## 1910	6.20e-04	-1.68e-03	-1.14e-02	-7.74e-03	5.45e-03	2.47e-02	1.005
## 1911	8.62e-03	5.06e-03	-3.14e-02	1.44e-03	-1.39e-02	-5.37e-02	1.005
## 1912	-1.14e-02	1.43e-02	-2.54e-02	-3.79e-02	-3.80e-02	7.58e-02	1.007
## 1913	1.22e-02	-7.90e-03	8.23e-03	-9.83e-03	-3.12e-03	3.09e-02	1.011
## 1914	-1.45e-02	-3.69e-02	2.02e-02	-6.74e-02	1.38e-02	1.39e-01	0.998
## 1915	6.29e-03	3.96e-03	-1.58e-02	1.58e-02	-1.64e-02	-4.43e-02	1.004
## 1916	1.49e-02	-2.48e-02	3.46e-02	1.04e-01	7.38e-02	-1.80e-01	1.008
## 1917	4.90e-04	1.86e-03	1.08e-03	6.34e-04	3.75e-04	8.19e-03	1.006
## 1918	-4.63e-03	-4.09e-03	7.50e-03	-5.55e-03	-1.10e-02	2.28e-02	1.013
## 1919	-2.00e-03	5.63e-03	-2.21e-03	7.03e-03	3.46e-03	-1.59e-02	1.008
## 1920	1.19e-02	-1.86e-02	3.67e-02	1.21e-02	1.19e-02	4.84e-02	1.001
## 1921	5.74e-03	-2.16e-02	2.12e-02	9.20e-03	-1.35e-02	-5.58e-02	1.003
## 1922	8.10e-03	2.21e-02	3.66e-02	-3.86e-03	2.05e-02	8.21e-02	1.001
## 1923	-1.58e-02	-1.84e-02	-1.28e-02	-8.47e-02	5.18e-03	9.49e-02	0.999
## 1924	1.46e-05	-4.39e-04	6.23e-05	6.06e-04	2.37e-04	-1.38e-03	1.006
## 1925	-6.64e-03	3.46e-02	1.35e-02	-2.13e-02	1.70e-03	8.50e-02	1.007
## 1926	9.89e-03	2.02e-02	-1.54e-02	-9.05e-03	1.53e-02	4.99e-02	1.003
## 1927	-4.99e-03	-9.74e-04	-2.01e-02	-1.72e-02	6.79e-03	3.08e-02	1.008
## 1928	-9.84e-04	4.50e-03	-4.06e-03	-1.81e-02	1.23e-02	3.14e-02	1.003
## 1929	-2.57e-02	-2.63e-02	2.05e-02	-9.97e-03	2.40e-02	7.97e-02	1.000
## 1930	9.25e-04	-7.61e-03	6.06e-03	-4.75e-03	1.32e-03	1.31e-02	1.007
## 1931	-7.30e-04	4.17e-03	-2.06e-04	2.79e-03	-2.44e-04	-6.53e-03	1.007
## 1932	1.48e-02	-1.74e-02	2.54e-02	-4.53e-02	-1.69e-02	9.46e-02	1.002
## 1933	8.38e-03	-1.52e-02	-1.81e-02	-1.07e-02	-5.05e-04	-4.00e-02	1.012
## 1934	-4.32e-03	-2.84e-03	3.81e-03	-8.43e-03	2.05e-03	1.65e-02	1.004

## 1935	-2.71e-03	9.40e-03	-1.05e-02	1.49e-02	-4.91e-03	-2.72e-02	1.006
## 1936	-1.96e-02	6.80e-03	-3.03e-02	-3.14e-02	4.97e-03	5.19e-02	1.002
## 1937	-1.16e-03	7.42e-03	-3.31e-03	-5.85e-03	-2.36e-03	1.40e-02	1.006
## 1938	-1.70e-02	-3.17e-03	-1.53e-02	2.10e-02	1.63e-03	-6.34e-02	1.005
## 1939	-2.51e-02	-1.45e-03	-9.43e-03	2.41e-03	-8.35e-03	-5.83e-02	1.004
## 1940	-1.95e-03	7.19e-05	-1.01e-03	-1.95e-02	7.45e-03	2.94e-02	1.005
## 1941	8.89e-04	2.28e-03	-5.97e-04	3.17e-03	-1.09e-03	-5.82e-03	1.009
## 1942	1.08e-01	1.70e-01	-1.13e-01	2.99e-01	2.29e-01	-5.88e-01	0.953
## 1943	9.69e-04	-1.53e-04	-9.12e-04	-3.13e-03	6.27e-04	4.67e-03	1.006
## 1944	-9.13e-04	-1.02e-03	-2.26e-03	-2.28e-03	-1.69e-03	6.32e-03	1.006
## 1945	9.29e-02	6.41e-03	-3.34e-03	-1.61e-02	-5.98e-03	1.08e-01	1.048
## 1946	-2.82e-03	2.09e-03	-6.06e-03	-1.11e-02	4.58e-03	2.06e-02	1.013
## 1947	-4.17e-03	-1.42e-02	-1.86e-03	-1.82e-02	-3.54e-02	4.49e-02	1.007
## 1948	-2.51e-02	4.35e-03	-2.95e-02	-1.77e-02	-2.23e-02	-6.66e-02	1.006
## 1949	2.34e-02	-1.30e-02	-1.29e-02	-3.53e-02	7.07e-03	6.32e-02	1.001
## 1950	4.17e-03	1.02e-03	2.44e-03	9.17e-03	-6.62e-03	-1.65e-02	1.004
## 1951	-2.92e-04	7.99e-04	-2.12e-03	8.96e-04	-1.19e-03	-5.27e-03	1.006
## 1952	-3.97e-03	-1.06e-03	-3.08e-04	-6.81e-03	1.73e-03	1.09e-02	1.006
## 1953	-6.43e-03	-1.94e-03	-7.78e-03	-2.80e-02	1.31e-02	4.74e-02	1.007
## 1954	4.89e-03	4.19e-03	-2.11e-03	1.24e-02	1.79e-02	-3.64e-02	1.010
## 1955	-5.71e-03	9.07e-03	1.88e-02	-1.25e-02	1.27e-02	4.65e-02	1.005
## 1956	-8.82e-03	-6.58e-03	1.29e-02	-3.00e-02	2.18e-03	5.50e-02	1.002
## 1957	-6.69e-04	1.44e-03	-8.67e-04	-1.36e-03	-1.60e-03	-5.75e-03	1.007
## 1958	3.20e-01	4.48e-02	-9.73e-02	-1.11e-01	-1.37e-02	3.90e-01	0.985
## 1959	2.33e-02	1.93e-02	-2.26e-04	-1.27e-02	-3.14e-04	6.76e-02	0.998
## 1960	-4.23e-03	-9.72e-03	1.98e-02	-1.46e-02	-7.93e-04	4.20e-02	1.004
## 1961	-1.21e-02	-6.22e-03	-4.30e-03	-2.76e-02	1.26e-02	3.83e-02	1.005
## 1962	-1.28e-02	6.18e-02	-6.13e-02	-7.08e-02	5.97e-03	1.78e-01	0.988
## 1963	7.39e-03	-2.82e-03	1.45e-02	1.71e-02	-6.61e-03	-2.88e-02	1.004
## 1964	-1.02e-04	1.09e-03	-4.05e-03	-1.05e-02	-7.60e-04	1.37e-02	1.008
## 1965	3.24e-02	-6.32e-02	9.94e-02	2.21e-01	7.45e-02	-3.64e-01	0.990
## 1966	1.47e-02	1.32e-02	1.53e-02	-2.88e-02	1.94e-02	7.60e-02	1.003
## 1967	1.41e-03	1.82e-02	-3.39e-02	-2.13e-02	9.77e-03	5.71e-02	1.003
## 1968	-7.51e-03	-4.04e-03	2.10e-03	4.78e-03	1.46e-04	-1.24e-02	1.015
## 1969	9.87e-03	-3.49e-02	-6.04e-02	-4.01e-02	-3.52e-02	-1.18e-01	0.993
## 1970	-5.44e-04	6.36e-04	8.70e-04	4.19e-03	-2.21e-04	-8.07e-03	1.006
## 1971	8.83e-03	-1.09e-02	-8.41e-03	-1.22e-02	-3.40e-04	3.52e-02	1.004
## 1972	-1.61e-03	5.07e-03	-3.75e-03	6.76e-03	-2.86e-03	-1.45e-02	1.008
## 1973	-1.12e-02	-2.31e-02	1.11e-02	-3.96e-02	6.08e-03	7.36e-02	1.005
## 1974	-1.14e-02	-6.75e-03	1.76e-03	1.16e-03	-3.97e-03	-1.77e-02	1.008
## 1975	-5.14e-03	1.50e-02	2.60e-03	1.58e-02	1.08e-03	-3.14e-02	1.006
## 1976	1.32e-03	5.28e-03	3.64e-03	1.75e-02	-8.79e-03	-2.81e-02	1.006
## 1977	-3.91e-03	3.76e-03	1.06e-02	1.32e-03	7.08e-03	2.30e-02	1.006
## 1978	-3.61e-03	1.78e-02	-8.42e-03	-1.85e-02	3.08e-03	3.22e-02	1.004
## 1979	3.95e-01	4.03e-02	-1.04e-02	1.13e-02	-8.15e-03	4.46e-01	1.014
## 1980	2.05e-03	5.15e-03	4.64e-03	1.20e-02	-7.08e-03	-2.94e-02	1.007
## 1981	1.37e-02	-1.80e-02	2.45e-03	3.65e-02	-2.32e-02	-9.45e-02	1.001
## 1982	-3.47e-03	9.02e-04	-5.84e-04	-1.07e-02	2.22e-03	1.38e-02	1.006
## 1983	7.16e-04	6.50e-03	-6.92e-03	1.21e-02	-1.39e-03	-2.46e-02	1.004
## 1984	2.38e-03	-7.84e-03	3.40e-02	2.23e-03	-2.72e-02	-7.09e-02	1.007
## 1985	-6.68e-03	5.86e-03	-1.19e-02	-1.22e-02	8.39e-04	2.33e-02	1.009
## 1986	-4.29e-05	1.85e-04	-8.02e-04	-2.56e-05	2.17e-04	2.46e-03	1.005
## 1987	1.66e-03	-6.17e-04	-2.28e-03	-2.54e-04	-1.35e-03	-6.70e-03	1.005
## 1988	-3.31e-05	-6.36e-05	-9.89e-05	-3.20e-05	5.33e-05	2.22e-04	1.007

## 1989	-1.80e-02	2.40e-03	-4.45e-02	-3.81e-02	2.00e-02	8.36e-02	0.996
## 1990	1.54e-03	-2.08e-03	-2.35e-03	6.14e-04	-3.05e-03	-9.13e-03	1.005
## 1991	-7.20e-03	-1.33e-02	1.76e-02	-8.98e-03	1.71e-02	5.09e-02	0.998
## 1992	-1.32e-04	4.92e-04	-8.56e-04	-9.47e-04	-2.19e-03	4.38e-03	1.011
## 1993	4.14e-03	4.29e-03	-8.93e-03	-3.47e-03	-2.81e-03	-2.01e-02	1.006
## 1994	2.09e-03	-4.18e-03	1.20e-02	1.22e-03	-1.46e-03	-1.49e-02	1.007
## 1995	-3.65e-03	4.63e-04	2.86e-03	5.29e-03	-4.79e-02	6.00e-02	1.005
## 1996	4.35e-06	2.50e-05	-5.27e-06	1.11e-04	2.34e-04	-3.33e-04	1.009
## 1997	4.70e-03	-2.31e-02	3.65e-04	-3.04e-03	2.23e-03	3.21e-02	1.005
## 1998	-1.98e-03	-1.50e-03	-2.18e-03	-3.03e-03	2.50e-03	9.75e-03	1.006
## 1999	-1.01e-02	6.24e-04	-3.39e-03	1.55e-03	-1.12e-02	5.76e-02	0.997
## 2000	-5.58e-03	5.10e-03	-1.49e-02	-7.62e-04	-1.44e-03	3.12e-02	1.007
## 2001	-2.07e-02	1.71e-02	-3.34e-02	-6.72e-02	2.80e-02	9.27e-02	0.994
## 2002	-4.94e-04	6.83e-05	1.77e-04	-4.66e-04	4.74e-04	1.48e-03	1.005
## 2003	9.55e-04	7.33e-04	-2.04e-03	-1.40e-03	-3.61e-05	-4.38e-03	1.005
## 2004	-1.88e-04	1.29e-03	1.64e-03	7.79e-04	1.55e-03	4.41e-03	1.005
## 2005	-1.30e-02	1.43e-02	-6.03e-02	-2.50e-02	1.75e-03	8.11e-02	0.991
## 2006	-6.93e-04	1.19e-03	3.86e-03	3.02e-03	7.32e-04	7.45e-03	1.006
## 2007	-2.71e-04	1.00e-03	1.01e-03	-6.22e-04	2.74e-03	8.05e-03	1.006
## 2008	-3.33e-03	-3.91e-03	2.20e-02	6.92e-03	5.89e-03	2.96e-02	1.005
## 2009	-2.78e-02	-1.07e-02	6.39e-03	-3.23e-02	-7.70e-02	1.16e-01	1.002
## 2010	1.33e-02	2.80e-02	-4.38e-02	-9.71e-03	-1.91e-02	-7.41e-02	0.989
## 2011	-9.94e-03	3.15e-02	1.52e-04	-5.90e-03	2.50e-02	6.34e-02	0.999
## 2012	-2.31e-02	-1.55e-02	1.18e-02	2.58e-02	1.95e-02	1.35e-01	0.994
## 2013	2.08e-03	4.57e-03	3.55e-03	7.30e-03	-2.71e-03	-1.39e-02	1.006
## 2014	-8.38e-03	-8.95e-03	-8.53e-03	-2.60e-02	2.82e-03	3.45e-02	1.005
## 2015	-6.75e-03	-6.89e-03	1.02e-02	-5.61e-04	1.13e-02	3.64e-02	1.000
## 2016	-2.79e-02	-1.88e-02	3.81e-03	-4.55e-02	-7.08e-02	1.54e-01	0.983
## 2017	-4.84e-03	4.01e-03	4.49e-03	-3.76e-03	6.89e-04	1.62e-02	1.005
## 2018	1.48e-02	-1.07e-02	1.53e-02	1.95e-02	-1.32e-02	-5.06e-02	0.996
## 2019	2.28e-03	8.78e-03	-8.38e-03	6.20e-03	-6.47e-03	-3.74e-02	1.002
## 2020	-5.88e-03	-6.04e-03	5.87e-03	-1.78e-02	9.91e-03	3.27e-02	1.007
## 2021	-1.75e-02	-4.07e-02	3.65e-02	-2.47e-02	-6.89e-02	9.86e-02	1.001
## 2022	-4.60e-02	2.88e-02	-3.52e-02	-1.55e-02	9.22e-03	1.40e-01	0.987
## 2023	3.88e-04	4.65e-04	7.58e-04	-1.99e-04	-2.70e-04	-2.22e-03	1.009
## 2024	1.62e-03	1.24e-03	1.13e-03	2.87e-03	8.73e-03	-1.47e-02	1.009
## 2025	-6.10e-04	2.15e-03	-1.40e-03	9.54e-04	-6.51e-04	4.54e-03	1.006
## 2026	3.44e-04	5.18e-05	-4.81e-04	-7.36e-04	-1.06e-02	1.82e-02	1.009
## 2027	-3.25e-02	-7.74e-02	6.28e-02	-3.55e-03	-7.81e-02	1.53e-01	0.992
## 2028	-1.67e-03	1.98e-03	3.37e-03	3.59e-03	-7.12e-04	8.41e-03	1.005
## 2029	6.15e-03	3.04e-03	-6.30e-03	-1.57e-02	1.29e-02	5.36e-02	0.994
## 2030	4.69e-03	-8.36e-04	6.57e-03	-2.02e-03	-4.99e-03	-2.03e-02	1.007
## 2031	1.88e-03	5.31e-03	-2.39e-02	-7.28e-03	-6.25e-03	-2.98e-02	1.006
## 2032	6.90e-04	1.32e-03	4.67e-04	-3.13e-04	1.52e-03	-4.30e-03	1.006
## 2033	-5.54e-03	1.11e-02	-9.49e-03	1.38e-03	6.18e-03	2.66e-02	1.005
## 2034	-3.26e-05	1.37e-04	2.95e-04	1.35e-04	-2.21e-05	1.85e-03	1.009
## 2035	-5.65e-03	-1.33e-02	-2.40e-02	-3.02e-02	-6.90e-02	9.60e-02	1.005
## 2036	-2.87e-02	5.37e-02	-4.02e-02	-1.39e-02	1.68e-03	1.18e-01	0.981
## 2037	-1.70e-03	1.08e-04	-1.04e-04	-7.22e-04	1.94e-03	6.01e-03	1.005
## 2038	-2.67e-03	1.01e-02	6.97e-03	1.20e-02	5.49e-03	3.04e-02	1.001
## 2039	1.18e-03	4.64e-04	-1.98e-03	1.06e-03	1.11e-02	-1.54e-02	1.008
## 2040	-1.23e-02	3.32e-02	-6.79e-02	-6.00e-02	-8.66e-02	1.47e-01	0.994
## 2041	-4.40e-04	7.81e-04	-6.23e-04	2.86e-04	-8.86e-04	2.63e-03	1.006
## 2042	4.79e-04	1.48e-03	-1.41e-03	9.24e-04	5.77e-03	-8.92e-03	1.009

## 2043	-1.31e-02	1.04e-02	3.79e-03	3.79e-02	3.94e-03	7.52e-02	0.996
## 2044	-2.63e-03	-4.47e-03	1.07e-02	1.64e-03	9.65e-03	2.88e-02	1.004
## 2045	2.89e-03	5.02e-03	1.64e-03	4.60e-04	2.99e-03	-1.58e-02	1.006
## 2046	2.12e-02	-2.22e-02	-1.95e-02	1.68e-02	6.36e-03	7.04e-02	0.993
## 2047	-2.92e-02	-1.58e-03	-1.03e-02	-4.49e-02	-1.10e-01	1.40e-01	0.997
## 2048	-4.67e-02	-4.93e-02	4.18e-02	-7.60e-02	4.37e-03	1.37e-01	1.005
## 2049	-2.76e-03	-1.26e-04	5.80e-03	9.99e-04	6.14e-03	1.44e-02	1.005
## 2050	-5.00e-03	2.10e-02	3.30e-05	1.06e-02	-3.77e-02	8.09e-02	1.004
## 2051	1.94e-02	8.36e-03	-1.45e-02	3.52e-02	-1.50e-02	-7.68e-02	0.989
## 2052	-9.29e-03	-1.06e-02	-1.82e-03	-1.67e-02	1.36e-02	4.05e-02	1.001
## 2053	-4.06e-04	2.50e-03	-1.33e-03	-9.40e-04	1.51e-03	6.31e-03	1.008
## 2054	3.23e-03	-2.23e-02	2.25e-02	-5.26e-04	6.87e-03	3.73e-02	1.004
## 2055	1.15e-03	2.89e-03	4.87e-03	9.87e-03	-2.81e-03	-1.28e-02	1.006
## 2056	8.55e-03	1.23e-02	-1.46e-02	1.53e-04	5.17e-02	-6.59e-02	1.004
## 2057	-1.47e-02	-8.21e-03	-2.13e-03	-2.31e-02	8.28e-03	4.07e-02	1.002
## 2058	6.36e-04	-1.53e-03	-2.07e-03	-4.19e-04	-5.22e-05	-5.28e-03	1.005
## 2059	-5.07e-03	1.53e-02	-1.78e-02	-4.72e-03	-3.34e-02	5.56e-02	1.006
## 2060	1.68e-03	4.31e-03	-1.21e-03	-1.99e-02	-4.22e-02	8.01e-02	1.004
## 2061	1.16e-02	-2.60e-02	-4.56e-03	1.96e-02	-1.03e-02	-4.96e-02	1.003
## 2062	-8.87e-03	4.43e-03	-1.42e-02	-5.28e-04	9.31e-03	4.99e-02	1.003
## 2063	4.41e-05	8.39e-05	-1.58e-05	3.93e-04	8.38e-04	-1.13e-03	1.009
## 2064	-6.30e-03	-3.02e-02	-2.57e-03	-1.44e-03	1.88e-02	4.94e-02	1.010
## 2065	8.25e-03	1.77e-02	6.31e-02	1.07e-02	-8.54e-03	-9.19e-02	0.990
## 2066	1.39e-01	-1.33e-01	9.37e-02	2.27e-01	-1.34e-01	-4.07e-01	0.979
## 2067	4.39e-02	-1.91e-02	5.72e-02	1.07e-01	-4.45e-02	-1.48e-01	1.002
## 2068	1.16e-04	-2.04e-05	-4.87e-04	-1.50e-04	-1.88e-05	-6.38e-04	1.009
## 2069	3.61e-03	3.15e-02	-1.15e-02	1.67e-02	-4.70e-03	-8.69e-02	0.993
## 2070	5.07e-03	1.32e-02	-3.54e-03	5.24e-03	6.10e-04	-2.13e-02	1.004
## 2071	2.72e-02	-2.88e-02	3.03e-02	5.19e-02	-3.05e-02	-1.02e-01	0.994
## 2072	5.48e-03	-4.59e-02	2.96e-02	2.03e-02	-6.59e-03	7.35e-02	1.000
## 2073	-8.57e-04	3.03e-03	-7.31e-03	-3.47e-03	-1.21e-03	1.40e-02	1.006
## 2074	-4.75e-03	-2.40e-02	2.83e-02	-1.83e-05	6.50e-03	4.30e-02	1.007
## 2075	5.90e-03	-1.69e-03	1.22e-02	1.69e-02	9.76e-03	-3.56e-02	1.005
## 2076	8.77e-03	-2.19e-03	3.33e-03	5.10e-02	-1.38e-03	-8.50e-02	0.990
## 2077	1.08e-02	1.38e-02	2.77e-02	5.37e-03	4.22e-03	-5.81e-02	1.003
## 2078	2.68e-02	-1.07e-02	2.79e-02	5.74e-02	2.48e-02	-8.55e-02	1.012
## 2079	-2.56e-03	5.50e-02	-5.18e-02	-6.62e-02	4.03e-02	1.58e-01	1.002
## 2080	1.23e-02	-2.61e-02	1.23e-02	4.82e-03	-2.56e-02	-1.37e-01	0.991
## 2081	5.07e-03	5.96e-04	3.31e-03	6.60e-03	-2.06e-03	-1.71e-02	1.007
## 2082	-1.62e-03	1.18e-02	6.65e-04	2.34e-03	-6.43e-04	2.87e-02	1.004
## 2083	3.25e-05	1.09e-03	-1.50e-03	-9.07e-04	2.79e-04	2.34e-03	1.010
## 2084	2.17e-04	-1.82e-05	-4.96e-04	3.95e-04	3.79e-04	1.47e-03	1.007
## 2085	-1.28e-03	-3.32e-04	6.15e-03	-3.81e-03	-3.34e-03	-1.24e-02	1.006
## 2086	-3.96e-03	-1.78e-02	1.78e-02	4.29e-03	6.74e-03	-3.23e-02	1.007
## 2087	-4.93e-03	-1.24e-03	4.13e-04	4.80e-03	-1.61e-03	-4.00e-02	1.034
## 2088	1.14e-04	-8.75e-04	-2.09e-04	4.49e-04	-1.56e-04	2.02e-03	1.006
## 2089	-4.69e-03	-1.73e-02	8.30e-03	-7.02e-03	-2.83e-03	-4.09e-02	1.007
## 2090	-3.87e-02	-6.89e-02	1.48e-02	-2.65e-02	-6.16e-03	-1.03e-01	1.001
## 2091	-3.48e-04	2.54e-03	4.25e-03	-1.19e-03	-2.29e-03	-1.18e-02	1.006
## 2092	1.54e-05	-5.15e-04	-5.01e-04	3.99e-04	-9.21e-04	2.85e-03	1.006
## 2093	1.02e-03	-1.91e-03	1.52e-04	1.43e-03	-1.76e-04	4.21e-03	1.006
## 2094	-1.33e-03	2.70e-03	3.58e-03	-5.93e-03	-2.70e-03	-1.70e-02	1.005
## 2095	2.42e-04	1.35e-02	-1.21e-02	-1.99e-03	-2.64e-03	-2.45e-02	1.005
## 2096	5.00e-03	3.26e-02	-2.30e-02	-1.38e-03	-6.76e-04	-5.01e-02	1.000

## 2097	5.76e-04	7.40e-03	-4.87e-03	-3.54e-03	-2.32e-03	-1.23e-02	1.005
## 2098	-7.52e-03	-8.06e-03	7.41e-03	1.76e-03	5.33e-03	-2.36e-02	1.007
## 2099	-3.49e-03	3.33e-03	1.12e-04	-1.34e-03	-1.13e-03	-7.80e-03	1.006
## 2100	-6.24e-04	8.42e-04	-6.30e-03	-1.30e-02	4.27e-03	-3.89e-02	1.000
## 2101	5.21e-03	8.21e-03	6.75e-03	-7.79e-03	-2.82e-03	-4.18e-02	1.012
## 2102	-1.71e-03	5.33e-03	3.91e-03	-2.77e-07	-2.42e-04	-1.22e-02	1.005
## 2103	-1.27e-03	8.06e-03	7.02e-04	-1.23e-03	-2.34e-05	-1.61e-02	1.005
## 2104	-2.53e-04	6.33e-04	-9.91e-04	-6.21e-04	-1.85e-04	-2.67e-03	1.006
## 2105	-2.02e-03	4.40e-03	-1.83e-03	-3.80e-03	2.51e-04	-1.73e-02	1.004
## 2106	-3.15e-02	-7.06e-03	1.29e-02	-3.10e-03	5.38e-03	-5.06e-02	1.006
## 2107	-3.99e-03	3.19e-03	-4.38e-03	-4.30e-03	3.41e-03	-4.90e-02	1.003
## 2108	5.68e-03	7.61e-04	7.72e-03	2.27e-02	-8.24e-04	-2.67e-02	1.006
## 2109	2.16e-03	-3.05e-04	-1.83e-03	-8.01e-04	9.82e-04	4.15e-03	1.006
## 2110	-6.79e-04	-1.05e-03	1.88e-03	2.64e-05	-1.18e-03	-4.14e-03	1.005
## 2111	-2.38e-02	-4.83e-02	5.39e-03	1.05e-02	-3.17e-02	-8.28e-02	0.999
## 2112	8.38e-03	1.05e-02	-1.21e-02	-8.11e-03	3.21e-02	-6.01e-02	1.008
## 2113	-9.08e-03	-1.84e-02	1.54e-02	1.10e-02	-1.69e-02	-4.10e-02	1.004
## 2114	2.35e-03	-2.46e-02	3.62e-02	2.80e-02	-1.49e-02	-5.15e-02	1.005
## 2115	-1.10e-03	-1.86e-03	3.44e-03	3.43e-03	-5.06e-03	-1.55e-02	1.006
## 2116	1.98e-02	-2.76e-03	-1.05e-02	-8.62e-03	4.11e-02	-9.52e-02	1.003
## 2117	-4.57e-03	8.61e-03	3.01e-03	-1.08e-02	3.91e-02	-6.27e-02	1.004
## 2118	-1.31e-03	-2.92e-03	1.22e-03	-3.83e-04	-2.68e-03	-1.11e-02	1.006
## 2119	5.46e-03	2.08e-02	1.19e-02	2.08e-02	1.05e-03	-3.59e-02	1.004
## 2120	-2.65e-03	1.31e-03	-5.02e-04	1.66e-03	-5.01e-03	-1.34e-02	1.006
## 2121	-2.35e-03	-7.40e-03	-1.77e-03	1.19e-04	1.15e-03	-1.91e-02	1.005
## 2122	3.20e-03	-4.65e-03	1.68e-03	-2.48e-03	4.66e-03	1.57e-02	1.005
## 2123	7.22e-03	-1.97e-02	1.35e-02	-3.38e-03	3.05e-03	-3.82e-02	1.005
## 2124	1.09e-04	-1.22e-03	-2.55e-03	-3.45e-03	7.13e-04	7.01e-03	1.006
## 2125	-1.07e-06	-2.06e-03	2.04e-03	5.98e-04	-2.10e-03	-5.36e-03	1.007
## 2126	2.91e-03	1.54e-03	-1.52e-03	-5.10e-04	1.98e-03	8.02e-03	1.005
## 2127	-1.25e-02	-1.61e-02	1.46e-02	4.14e-03	-5.22e-03	-3.91e-02	1.002
## 2128	1.01e-04	-5.68e-03	1.48e-02	1.29e-02	1.64e-02	-2.75e-02	1.010
## 2129	-1.97e-03	5.85e-03	-1.26e-02	1.07e-03	9.74e-03	2.20e-02	1.007
## 2130	-4.78e-03	-2.32e-02	-1.04e-03	2.03e-02	-2.67e-02	-8.88e-02	1.000
## 2131	-2.66e-04	3.04e-04	-7.83e-04	-3.55e-04	9.28e-04	1.98e-03	1.006
## 2132	9.92e-05	-4.80e-03	-4.93e-03	-5.07e-03	-1.82e-02	2.52e-02	1.007
## 2133	1.85e-04	-1.85e-04	-2.53e-05	4.70e-05	-1.18e-04	-9.29e-04	1.006
## 2134	-2.46e-03	-2.24e-03	5.85e-04	3.10e-03	2.00e-03	1.72e-02	1.007
## 2135	-2.19e-02	1.59e-02	2.37e-02	-1.33e-02	-2.82e-03	6.65e-02	0.997
## 2136	-1.08e-03	1.30e-03	2.54e-03	3.56e-03	5.54e-04	-5.48e-03	1.006
## 2137	1.25e-03	-3.42e-03	-8.00e-03	-2.67e-03	-7.25e-03	-2.67e-02	1.003
## 2138	-9.54e-03	-1.18e-02	-4.81e-06	-3.20e-03	-2.56e-03	-2.37e-02	1.004
## 2139	-4.21e-02	-1.08e-02	8.28e-03	-1.30e-03	3.51e-02	-6.70e-02	1.006
## 2140	7.43e-04	4.19e-03	-5.34e-05	-2.47e-03	1.61e-02	-3.00e-02	1.009
## 2141	-1.68e-03	2.35e-03	4.60e-04	-2.02e-03	-6.40e-03	-1.57e-02	1.004
## 2142	2.51e-04	1.20e-03	-1.03e-03	-1.00e-03	5.69e-04	3.75e-03	1.006
## 2143	2.87e-03	-3.08e-03	6.85e-04	-2.21e-03	1.81e-03	1.02e-02	1.005
## 2144	-5.06e-03	1.32e-02	-1.05e-03	1.18e-02	5.21e-03	3.08e-02	1.009
## 2145	1.41e-02	-2.18e-02	9.80e-03	4.27e-02	6.56e-02	-9.51e-02	1.003
## 2146	-9.49e-04	-1.29e-03	5.01e-04	-2.70e-04	-1.00e-03	-5.88e-03	1.006
## 2147	-9.05e-03	-3.92e-03	-2.79e-03	-1.02e-02	-1.56e-02	-2.73e-02	1.007
## 2148	1.96e-03	3.03e-03	1.57e-02	8.67e-03	-7.70e-03	-4.38e-02	1.003
## 2149	1.14e-03	3.59e-03	-1.57e-03	-1.54e-03	8.79e-03	-1.52e-02	1.010
## 2150	-4.98e-04	-1.07e-03	4.46e-04	-3.95e-04	-6.30e-04	-1.94e-03	1.006



## 2151	2.71e-03	8.49e-03	1.57e-02	2.08e-02	-5.77e-03	-3.73e-02	1.002
## 2152	-6.75e-03	-1.35e-04	5.45e-03	1.78e-02	-1.08e-03	-3.78e-02	0.999
## 2153	1.65e-03	-2.28e-03	6.12e-03	-2.87e-03	1.00e-02	-2.16e-02	1.010
## 2154	7.65e-04	2.45e-02	-5.37e-03	1.46e-02	1.24e-02	5.68e-02	1.006
## 2155	7.32e-03	1.23e-02	-1.21e-02	-7.28e-03	-5.96e-02	9.65e-02	1.001
## 2156	-1.02e-02	4.63e-03	2.27e-02	-3.60e-04	2.08e-02	5.03e-02	1.001
## 2157	-2.47e-03	8.08e-04	-6.71e-02	2.57e-02	8.63e-02	-2.03e-01	0.988
## 2158	-6.14e-04	-6.82e-04	-1.78e-03	6.09e-04	7.81e-04	1.50e-02	1.005
## 2159	-9.30e-04	1.13e-02	1.16e-03	5.55e-03	6.92e-03	1.88e-02	1.006
## 2160	1.79e-03	-5.25e-03	-5.30e-03	-2.94e-02	1.81e-02	-7.19e-02	1.011
## 2161	6.59e-03	6.45e-03	2.81e-02	1.55e-02	-3.99e-02	1.01e-01	1.004
## 2162	-1.09e-03	4.88e-03	5.09e-03	-8.21e-04	-2.75e-03	-1.43e-02	1.007
## 2163	4.63e-03	-6.91e-03	4.39e-03	2.51e-02	-9.41e-03	-4.12e-02	1.005
## 2164	4.22e-03	9.43e-03	4.65e-04	7.11e-03	-3.18e-02	8.42e-02	1.006
## 2165	6.38e-03	-4.84e-02	5.10e-03	-4.79e-03	-4.82e-03	6.70e-02	0.999
## 2166	-1.02e-03	1.44e-02	-5.76e-04	2.03e-02	-3.24e-02	7.15e-02	1.002
## 2167	8.09e-03	-4.17e-02	7.60e-02	6.68e-03	7.65e-03	9.83e-02	0.999
## 2168	-3.71e-05	5.90e-03	-1.35e-04	1.20e-04	2.65e-03	1.05e-02	1.007
## 2169	3.15e-03	7.72e-03	6.81e-03	4.90e-03	3.43e-03	2.44e-02	1.005
## 2170	-7.08e-04	8.86e-03	-9.04e-03	-5.35e-04	6.32e-03	2.19e-02	1.004
## 2171	2.52e-03	2.43e-02	4.19e-03	-5.76e-04	2.01e-02	5.70e-02	1.003
## 2172	-5.41e-04	2.95e-03	2.72e-03	3.95e-03	-1.07e-02	1.44e-02	1.008
## 2173	-7.72e-04	1.18e-02	-8.81e-03	-5.88e-03	5.71e-03	3.16e-02	1.004
## 2174	-1.78e-02	5.23e-02	-5.98e-02	2.59e-02	7.06e-03	1.19e-01	0.971
## 2175	-3.49e-03	8.54e-04	5.53e-03	6.96e-03	8.20e-05	2.57e-02	1.004
## 2176	1.24e-02	4.89e-02	2.55e-03	3.70e-02	-5.97e-02	2.29e-01	0.982
## 2177	-7.32e-05	3.81e-03	-4.21e-03	1.60e-03	-2.00e-03	-8.59e-03	1.006
## 2178	-8.44e-03	2.20e-02	4.60e-02	2.83e-03	3.40e-02	8.98e-02	1.001
## 2179	7.16e-04	-8.87e-03	8.64e-03	7.79e-03	6.49e-03	2.06e-02	1.003
## 2180	7.35e-03	5.70e-04	3.61e-02	1.45e-02	1.09e-02	6.07e-02	1.004
## 2181	-2.88e-03	-2.80e-03	-1.81e-03	5.61e-03	1.56e-02	3.72e-02	1.002
## 2182	-1.42e-03	-2.16e-04	1.95e-03	1.14e-04	2.64e-03	9.21e-03	1.004
## 2183	-6.42e-03	-7.71e-03	1.61e-02	1.46e-02	4.47e-03	5.05e-02	0.996
## 2184	-1.15e-02	3.07e-02	-4.20e-04	1.79e-02	-3.56e-03	5.77e-02	0.999
## 2185	3.32e-03	-5.01e-03	2.76e-02	-2.81e-03	-1.02e-03	4.39e-02	0.999
## 2186	-6.92e-04	-6.67e-04	1.24e-03	5.81e-04	-4.92e-04	3.74e-03	1.005
## 2187	-1.52e-03	-7.50e-04	-2.03e-02	-7.04e-03	1.08e-02	3.16e-02	1.004
## 2188	-6.74e-03	-7.41e-04	2.17e-03	-3.37e-03	5.29e-03	2.42e-02	1.001
## 2189	-1.62e-03	1.90e-03	6.74e-04	1.45e-03	-2.03e-03	6.61e-03	1.008
## 2190	-6.83e-03	-3.81e-05	8.90e-04	2.55e-03	-1.39e-02	3.79e-02	1.003
## 2191	-2.94e-03	-5.32e-03	1.04e-02	2.17e-03	-2.89e-03	1.76e-02	1.006
## 2192	-9.82e-04	1.19e-03	1.48e-03	9.78e-04	-1.70e-03	5.18e-03	1.006
## 2193	-2.59e-04	-1.00e-03	1.02e-03	-1.28e-04	3.04e-04	2.65e-03	1.006
## 2194	1.22e-03	4.52e-03	-4.91e-03	-4.60e-03	-1.98e-03	-9.74e-03	1.005
## 2195	-6.17e-03	-1.07e-03	-7.14e-03	-6.87e-03	-7.64e-03	3.65e-02	1.001
## 2196	1.66e-02	-3.09e-04	3.07e-02	5.61e-03	3.63e-03	5.86e-02	0.995
## 2197	-6.18e-03	2.05e-02	8.99e-04	4.12e-03	-1.02e-02	5.33e-02	0.998
## 2198	-1.70e-03	5.15e-05	5.42e-03	2.32e-03	3.73e-03	1.18e-02	1.006
## 2199	1.67e-03	1.11e-02	-4.60e-03	2.46e-03	-3.71e-03	-2.18e-02	1.003
## 2200	-2.36e-03	-5.42e-03	1.19e-02	4.40e-03	4.91e-03	2.37e-02	1.004
## 2201	-2.69e-04	3.14e-04	3.15e-04	4.25e-04	-3.36e-04	1.58e-03	1.005
## 2202	4.03e-04	7.98e-04	6.95e-04	4.91e-04	-4.19e-04	-3.01e-03	1.006
## 2203	3.07e-03	7.30e-03	3.41e-03	-2.66e-03	-3.38e-03	2.55e-02	1.003
## 2204	2.55e-02	-9.82e-03	-1.22e-03	6.38e-02	5.74e-03	-7.89e-02	1.025

##	2205	2.42e-02	-8.00e-03	4.48e-03	9.06e-03	5.25e-03	3.57e-02	1.005
##	2206	1.91e-04	-7.47e-04	1.41e-03	1.21e-03	6.36e-04	2.40e-03	1.005
##	2207	-5.97e-03	-7.07e-04	1.94e-03	-1.33e-02	-1.41e-03	2.65e-02	1.002
##	2208	-7.52e-04	-7.16e-03	4.64e-03	5.36e-04	2.16e-03	1.20e-02	1.005
##	2209	6.11e-03	-3.36e-02	6.55e-03	3.52e-03	1.21e-02	4.71e-02	1.004
##	2210	-3.95e-03	5.84e-03	-7.06e-03	6.94e-03	4.41e-03	-2.41e-02	1.005
##	2211	-6.21e-04	-6.14e-03	-5.76e-03	-7.23e-03	-5.86e-04	1.48e-02	1.006
##	2212	-5.54e-04	-2.15e-04	2.23e-03	1.47e-03	7.34e-04	3.42e-03	1.006
##	2213	1.38e-03	3.18e-03	1.68e-03	-1.49e-03	-1.95e-03	-1.02e-02	1.012
##	2214	-1.07e-03	-1.29e-03	7.34e-04	-1.17e-04	-5.40e-04	4.69e-03	1.005
##	2215	-3.82e-03	1.16e-02	4.65e-03	1.88e-03	-2.80e-03	3.11e-02	1.002
##	2216	-5.08e-03	-1.83e-02	8.72e-03	-1.02e-02	-4.13e-03	4.31e-02	1.002
##	2217	-5.93e-03	-7.39e-03	1.63e-02	2.40e-03	-4.87e-03	3.55e-02	1.004
##	2218	3.06e-04	6.59e-04	-8.17e-04	-1.38e-03	-6.12e-04	7.87e-03	1.006
##	2219	-2.22e-03	1.83e-03	3.54e-03	5.30e-04	7.21e-03	2.03e-02	1.003
##	2220	-5.18e-03	-2.47e-03	1.85e-02	-8.76e-03	5.92e-03	3.83e-02	1.002
##	2221	2.64e-03	-1.69e-03	-1.81e-03	4.21e-05	-4.06e-03	-1.05e-02	1.005
##	2222	-7.62e-03	5.97e-03	3.89e-02	3.13e-02	7.49e-03	5.66e-02	1.000
##	2223	-2.90e-03	1.39e-03	5.86e-03	2.98e-03	-6.74e-04	1.22e-02	1.005
##	2224	-4.48e-04	-1.53e-04	-3.36e-04	1.49e-04	-1.82e-03	7.04e-03	1.005
##	2225	2.48e-04	-1.14e-03	-2.15e-03	-3.51e-03	4.75e-04	-5.37e-03	1.006
##	2226	-1.39e-04	-2.39e-04	5.95e-04	1.80e-05	8.41e-05	1.29e-03	1.005
##	2227	-1.03e-02	-5.54e-03	3.67e-04	5.24e-03	-1.72e-03	3.67e-02	1.000
##	2228	-7.60e-04	-1.95e-03	2.13e-03	-2.32e-03	1.05e-03	6.92e-03	1.005
##	2229	-7.94e-03	9.21e-03	1.56e-02	1.23e-02	-7.69e-03	4.90e-02	0.998
##	2230	-7.08e-03	-2.19e-02	2.54e-02	-1.04e-02	2.40e-03	5.65e-02	0.994
##	2231	-5.81e-05	-7.43e-04	-3.11e-05	2.68e-04	3.67e-04	1.70e-03	1.005
##	2232	-8.65e-04	-3.10e-03	2.77e-02	1.82e-02	1.10e-02	5.18e-02	1.002
##	2233	4.51e-04	-1.49e-03	6.00e-04	-5.93e-04	-4.23e-04	2.97e-03	1.006
##	2234	1.77e-03	1.18e-02	-7.18e-04	6.51e-03	-3.05e-03	2.04e-02	1.005
##	2235	1.12e-02	-8.93e-03	3.20e-02	1.81e-02	7.17e-03	6.64e-02	0.999
##	2236	-3.59e-03	-1.52e-03	-1.83e-03	7.48e-05	-3.60e-04	1.33e-02	1.004
##	2237	-1.01e-02	2.35e-03	1.27e-02	-2.04e-03	1.02e-02	3.43e-02	0.999
##	2238	-1.30e-02	9.40e-03	3.48e-02	-5.31e-03	1.77e-02	7.73e-02	0.992
##	2239	4.00e-03	5.15e-03	1.43e-03	-2.47e-03	-3.64e-03	-2.30e-02	1.010
##	2240	1.47e-03	5.65e-03	-2.65e-03	1.78e-03	3.19e-03	-1.34e-02	1.005
##	2241	-1.71e-03	-2.05e-03	4.61e-03	4.90e-04	2.38e-05	8.02e-03	1.005
##	2242	-2.68e-03	-1.24e-02	-2.64e-04	2.60e-03	3.26e-03	1.93e-02	1.005
##	2243	-7.81e-04	-2.67e-02	5.55e-03	-7.21e-03	-3.50e-04	4.08e-02	1.002
##	2244	-3.48e-03	-1.15e-02	-8.27e-03	-5.18e-03	7.70e-03	2.91e-02	1.004
##	2245	-5.28e-05	1.12e-03	5.65e-04	4.83e-03	1.98e-03	1.11e-02	1.004
##	2246	-3.02e-04	2.57e-03	3.39e-03	4.60e-03	-9.28e-04	8.61e-03	1.006
##	2247	-7.59e-04	1.82e-03	-8.79e-05	6.65e-04	-8.24e-04	3.41e-03	1.006
##	2248	-6.41e-04	-1.79e-03	4.23e-03	3.50e-04	8.50e-04	7.79e-03	1.006
##	2249	-1.81e-03	-1.20e-02	-7.30e-03	-1.66e-02	6.13e-03	2.84e-02	1.003
##	2250	1.09e-03	-8.37e-04	-5.64e-04	-1.02e-03	9.62e-04	-5.74e-03	1.005
##	2251	1.50e-02	1.37e-03	2.56e-02	1.60e-02	-6.49e-03	5.13e-02	0.996
##	2252	-1.16e-03	1.31e-04	4.71e-03	3.40e-03	-2.79e-03	1.14e-02	1.005
##	2253	-1.21e-03	-1.08e-02	6.34e-03	4.62e-03	-3.02e-03	2.24e-02	1.005
##	2254	-1.30e-03	-1.74e-02	-4.43e-03	-8.72e-03	-1.33e-03	-4.57e-02	1.004
##	2255	3.90e-03	-5.27e-03	9.03e-03	-4.69e-03	-6.53e-04	-3.43e-02	1.000
##	2256	7.56e-04	2.32e-03	3.98e-03	2.96e-03	-6.49e-03	-2.10e-02	1.004
##	2257	1.63e-04	-8.26e-04	-5.44e-03	-7.25e-04	-6.71e-04	1.49e-02	1.006
##	2258	9.24e-04	-2.40e-03	-3.14e-03	-4.77e-03	1.89e-03	-9.22e-03	1.006

## 2259	-2.46e-04	3.24e-03	3.93e-03	-1.08e-03	4.01e-04	-9.45e-03	1.006
## 2260	-1.62e-03	-4.27e-03	8.74e-04	2.93e-03	-2.31e-03	1.06e-02	1.005
## 2261	4.79e-03	-2.08e-02	3.11e-02	-1.41e-02	1.30e-02	-5.82e-02	1.004
## 2262	-2.84e-03	3.31e-04	2.14e-03	2.42e-03	-4.48e-03	2.13e-02	1.004
## 2263	-1.17e-03	1.40e-04	7.92e-04	1.44e-04	6.53e-04	-8.24e-03	1.007
## 2264	2.27e-03	-7.31e-03	-6.13e-03	-1.26e-02	2.72e-03	-2.18e-02	1.005
## 2265	-1.45e-03	1.04e-03	-2.23e-03	-5.99e-03	-7.25e-04	-1.67e-02	1.005
## 2266	-7.71e-04	-6.99e-03	5.58e-03	1.22e-02	-4.49e-03	2.34e-02	1.005
## 2267	-8.30e-05	-3.95e-02	4.00e-02	3.43e-02	-1.11e-03	8.72e-02	0.991
## 2268	-5.86e-04	-7.10e-03	2.42e-04	-1.78e-02	1.43e-02	-5.34e-02	1.000
## 2269	-2.43e-03	3.76e-02	-7.58e-03	-4.51e-03	4.98e-03	-5.54e-02	1.000
## 2270	3.46e-03	6.47e-02	-5.24e-02	-2.59e-02	1.43e-02	-9.59e-02	0.996
## 2271	8.54e-04	3.42e-03	-2.44e-03	-4.38e-03	3.34e-03	-1.57e-02	1.004
## 2272	3.22e-03	-1.70e-02	3.11e-02	9.38e-03	-9.34e-05	3.82e-02	1.005
## 2273	-3.10e-04	1.59e-03	2.81e-04	-2.56e-04	6.23e-04	-4.02e-03	1.005
## 2274	2.69e-04	6.29e-04	-2.21e-04	-8.06e-04	4.42e-04	-3.75e-03	1.005
## 2275	8.53e-04	-1.13e-02	5.71e-03	9.09e-03	-9.55e-04	2.28e-02	1.004
## 2276	-9.59e-03	-4.43e-03	-5.94e-03	-9.63e-04	6.15e-03	-3.73e-02	1.000
## 2277	8.64e-03	-1.33e-02	-1.15e-02	-2.10e-02	1.96e-02	-6.05e-02	1.002
## 2278	2.57e-02	-1.34e-02	-9.57e-03	4.82e-02	-4.34e-03	-7.27e-02	1.005
## 2279	-1.16e-02	1.48e-02	-2.77e-02	-5.80e-03	2.11e-02	6.28e-02	1.000
## 2280	1.23e-03	-2.29e-03	1.57e-03	-7.37e-03	4.12e-03	-1.83e-02	1.005
## 2281	-1.65e-03	1.50e-02	-3.31e-03	-1.21e-02	-4.44e-03	-3.42e-02	1.002
## 2282	-4.10e-03	-6.09e-03	2.00e-02	3.85e-03	1.12e-02	-5.34e-02	1.003
## 2283	-6.37e-03	-6.11e-03	3.48e-03	5.59e-03	-2.81e-02	5.75e-02	1.009
## 2284	-1.08e-02	-1.97e-03	3.64e-05	-4.77e-03	-2.17e-02	7.97e-02	1.005
## 2285	1.16e-02	1.06e-02	1.14e-02	8.89e-03	-1.81e-02	3.92e-02	1.009
## 2286	7.53e-03	1.67e-02	9.74e-03	7.07e-03	6.13e-02	-1.36e-01	1.004
## 2287	1.87e-02	-4.05e-04	-5.04e-02	-3.23e-02	2.37e-02	-1.32e-01	1.009
## 2288	2.54e-03	-1.44e-03	2.15e-03	3.12e-03	7.42e-03	-1.90e-02	1.009
## 2289	-1.03e-03	-9.94e-05	5.72e-04	-4.32e-04	2.69e-03	4.50e-03	1.006
## 2290	2.29e-03	-3.22e-03	1.76e-02	2.11e-02	-2.09e-02	-5.16e-02	1.009
## 2291	2.27e-04	1.71e-04	8.09e-05	-1.29e-03	-2.53e-03	3.49e-03	1.008
## 2292	-6.51e-05	-4.29e-04	8.13e-04	4.21e-04	-1.93e-04	-1.09e-03	1.014
## 2293	-1.47e-04	-4.57e-04	5.46e-04	2.16e-04	-6.51e-04	1.44e-03	1.010
## 2294	4.01e-03	5.27e-03	-4.17e-03	8.64e-04	-5.48e-03	-1.90e-02	1.005
## 2295	8.37e-03	-6.49e-03	1.88e-02	2.43e-02	2.20e-02	-5.16e-02	1.006
## 2296	1.02e-02	-2.89e-02	-1.27e-02	-9.65e-03	-3.70e-02	-7.86e-02	1.010
## 2297	-7.71e-03	-2.62e-02	1.08e-02	9.54e-03	-1.59e-02	-8.98e-02	1.001
## 2298	6.19e-03	-1.44e-02	1.61e-03	-2.21e-03	3.18e-02	-4.61e-02	1.005
## 2299	-1.37e-02	-6.97e-04	-7.42e-04	-9.73e-03	2.51e-02	5.32e-02	0.995
## 2300	-5.59e-03	1.95e-02	-2.36e-04	1.82e-03	4.06e-03	2.40e-02	1.005
## 2301	3.57e-03	-3.51e-05	-6.29e-03	-6.41e-04	1.89e-02	-3.56e-02	1.007
## 2302	-1.17e-04	-7.34e-05	2.97e-05	1.85e-04	-3.06e-04	7.90e-04	1.010
## 2303	1.23e-02	-1.84e-02	-9.17e-03	-2.05e-02	-4.05e-02	-6.92e-02	1.007
## 2304	-8.68e-04	4.45e-03	-1.96e-03	-3.70e-03	5.47e-03	1.01e-02	1.007
## 2305	5.13e-03	2.70e-03	6.58e-03	-5.24e-03	1.54e-02	-3.60e-02	1.015
## 2306	1.90e-02	-2.32e-02	-4.24e-02	-4.30e-02	6.21e-03	-1.04e-01	1.012
## 2307	-9.34e-04	-6.21e-02	5.56e-02	3.28e-02	-1.91e-02	-8.93e-02	0.997
## 2308	4.42e-04	4.14e-03	-3.66e-03	-6.89e-03	4.26e-03	1.52e-02	1.006
## 2309	1.23e-03	-6.90e-03	-7.29e-03	-8.98e-03	1.13e-02	-3.26e-02	1.009
## 2310	1.14e-03	-1.11e-03	3.20e-03	2.58e-03	-5.60e-03	1.12e-02	1.009
## 2311	4.27e-03	-6.64e-03	4.64e-04	-1.28e-02	3.40e-02	-5.32e-02	1.007
## 2312	3.07e-02	5.52e-04	-3.06e-02	2.34e-02	-3.99e-02	-8.17e-02	0.996

## 2313	4.12e-03	-4.45e-03	-3.44e-03	-4.33e-03	-3.28e-03	-2.56e-02	1.033
## 2314	-1.78e-02	1.21e-02	1.36e-02	3.11e-03	9.01e-04	8.90e-02	1.112
## 2315	-4.89e-02	4.06e-02	3.62e-02	1.11e-02	9.90e-03	2.43e-01	1.078
## 2316	1.83e-02	-1.10e-02	-2.07e-02	-9.76e-03	-4.13e-03	-8.91e-02	1.047
## 2317	5.45e-03	5.07e-03	7.17e-03	6.15e-03	7.00e-03	-3.49e-02	1.002
## 2318	2.36e-02	5.58e-02	-9.10e-02	9.58e-02	-3.09e-02	-2.47e-01	0.966
## 2319	4.05e-03	1.34e-03	4.25e-03	-2.08e-03	-2.18e-03	-1.96e-02	1.006
## 2320	2.94e-03	-1.22e-02	-1.63e-02	-1.57e-02	-1.68e-03	-3.56e-02	1.006
## 2321	-1.41e-02	-3.13e-02	1.88e-02	-4.07e-02	1.07e-02	7.57e-02	0.999
## 2322	-3.43e-03	-2.20e-02	-5.37e-03	-7.51e-03	-2.18e-03	-3.43e-02	1.005
## 2323	-6.89e-02	6.04e-02	-2.11e-02	2.24e-02	1.92e-02	-1.39e-01	0.978
## 2324	-4.15e-03	-1.67e-02	3.36e-02	3.08e-02	-1.69e-02	-9.01e-02	1.001
## 2325	2.99e-03	2.31e-03	-1.26e-02	4.31e-03	-5.87e-03	-2.48e-02	1.005
## 2326	-1.86e-02	-2.23e-02	-2.03e-02	-2.18e-02	-3.19e-03	-7.09e-02	0.998
## 2327	1.13e-02	-2.84e-03	-1.44e-02	2.11e-02	-7.99e-03	-4.30e-02	1.006
## 2328	3.30e-02	-1.39e-03	-1.34e-02	1.58e-02	-1.31e-02	-1.04e-01	0.982
## 2329	-7.51e-03	-1.17e-02	-1.42e-02	1.20e-02	-1.04e-02	-7.02e-02	0.997
## 2330	-6.40e-03	4.49e-02	-1.94e-02	1.30e-02	-5.00e-03	7.42e-02	1.001
## 2331	-1.06e-03	-1.95e-02	-6.54e-03	6.39e-03	-2.28e-03	-6.06e-02	1.004
## 2332	1.76e-03	-4.24e-03	1.35e-03	7.65e-03	-8.79e-03	-2.70e-02	1.003
## 2333	1.62e-03	-2.12e-02	9.32e-03	7.28e-03	-9.01e-03	-4.19e-02	1.006
## 2334	-1.70e-03	-4.23e-03	-2.15e-03	1.13e-04	2.94e-04	-1.15e-02	1.007
## 2335	1.85e-02	-3.14e-02	-3.48e-02	-1.00e-02	6.79e-03	-8.25e-02	1.006
## 2336	2.70e-03	-5.23e-02	1.49e-03	-1.07e-02	-6.28e-03	-6.44e-02	1.005
## 2337	2.25e-03	5.66e-03	-1.90e-02	3.45e-02	-5.76e-03	-7.98e-02	1.006
## 2338	-3.67e-02	-2.80e-02	-3.89e-03	4.31e-02	-8.30e-03	-9.44e-02	1.003
## 2339	4.91e-03	-2.83e-03	-1.31e-02	-1.74e-03	-6.10e-03	-2.50e-02	1.006
## 2340	4.33e-03	-4.78e-02	-8.97e-03	-5.73e-03	7.06e-03	-8.24e-02	1.003
## 2341	5.61e-03	-1.46e-02	-1.01e-02	7.14e-02	-1.68e-03	-1.09e-01	0.999
## 2342	4.29e-03	1.44e-03	1.45e-04	7.67e-03	1.19e-03	-1.57e-02	1.005
## 2343	5.41e-03	4.60e-03	1.48e-02	-8.67e-03	-4.28e-03	-4.06e-02	1.009
## 2344	1.26e-03	3.42e-02	-4.35e-02	1.00e-03	-3.45e-02	-1.18e-01	0.991
## 2345	9.22e-03	1.29e-02	-1.18e-02	5.30e-02	-2.78e-03	-7.53e-02	1.007
## 2346	-2.61e-02	-5.22e-02	-5.17e-04	6.42e-02	2.75e-04	-1.19e-01	1.000
## 2347	1.90e-02	-1.92e-01	8.99e-02	-8.19e-02	-5.78e-02	-2.70e-01	1.015
## 2348	-1.48e-03	-2.89e-03	7.51e-04	3.13e-03	-7.05e-04	-6.64e-03	1.008
## 2349	-1.16e-03	-1.88e-03	-1.67e-03	-1.76e-03	2.07e-04	4.61e-03	1.005
## 2350	1.44e-02	-7.11e-03	-5.04e-02	-3.35e-02	-3.73e-03	-7.49e-02	1.004
## 2351	-1.18e-02	-4.87e-03	-2.39e-02	7.36e-02	-4.92e-02	-1.38e-01	0.989
## 2352	7.43e-03	-4.24e-03	-7.60e-03	2.55e-02	-1.82e-04	-4.97e-02	1.003
## 2353	-8.84e-02	1.33e-02	-6.63e-02	-7.03e-02	-4.76e-03	-1.57e-01	0.986
## 2354	-2.66e-03	-1.41e-02	9.53e-03	-1.99e-02	1.69e-02	5.95e-02	1.002
## 2355	-2.02e-02	5.10e-02	-7.43e-02	1.16e-02	1.85e-02	-1.49e-01	0.986
## 2356	2.83e-03	-4.10e-03	6.85e-03	1.26e-02	5.56e-04	-2.41e-02	1.005
## 2357	1.81e-02	8.91e-03	1.49e-03	5.25e-02	-1.89e-03	-9.25e-02	0.994
## 2358	6.99e-04	2.38e-03	1.54e-02	3.01e-02	-8.30e-03	-4.01e-02	1.005
## 2359	1.27e-03	4.25e-03	-1.52e-03	-5.43e-03	-6.42e-04	-1.45e-02	1.004
## 2360	6.61e-03	1.15e-02	-3.37e-03	-2.64e-02	1.77e-02	-7.01e-02	1.005
## 2361	-2.59e-04	-4.42e-03	7.81e-03	-4.99e-03	-2.56e-03	-1.55e-02	1.005
## 2362	-2.83e-03	-1.77e-03	-2.21e-04	-1.66e-03	8.39e-04	-5.92e-03	1.007
## 2363	5.57e-03	3.82e-03	-2.97e-03	-1.73e-02	-9.37e-04	-4.48e-02	1.002
## 2364	-5.38e-03	2.60e-03	-5.97e-03	-7.75e-03	-1.65e-04	-1.68e-02	1.004
## 2365	-3.12e-03	-4.88e-02	3.27e-02	-1.51e-02	-3.30e-03	-6.62e-02	1.005
## 2366	2.21e-03	-3.36e-03	1.72e-03	1.44e-03	2.66e-04	1.39e-02	1.005

## 2367	1.60e-02	-2.27e-02	2.62e-02	2.19e-02	-2.96e-03	4.65e-02	1.003
## 2368	1.06e-02	9.35e-03	1.09e-02	-1.60e-02	-1.25e-02	-7.10e-02	1.011
## 2369	-1.34e-04	2.45e-03	-2.74e-03	-1.43e-03	-7.85e-05	-5.12e-03	1.007
## 2370	3.38e-04	2.25e-03	-4.50e-03	6.74e-03	2.48e-03	2.99e-02	1.001
## 2371	1.71e-04	-2.56e-04	-3.61e-04	1.12e-04	-1.51e-04	-3.69e-03	1.005
## 2372	2.88e-04	-1.61e-03	7.98e-04	-2.49e-03	1.29e-03	-6.25e-03	1.005
## 2373	7.89e-04	2.75e-03	8.60e-03	-3.31e-03	-4.53e-03	-1.86e-02	1.009
## 2374	9.39e-03	-5.27e-03	-1.42e-03	1.27e-04	1.53e-03	1.74e-02	1.008
## 2375	-8.70e-07	-1.25e-03	9.42e-04	-1.50e-04	-6.08e-04	-4.65e-03	1.005
## 2376	-2.51e-03	1.78e-03	2.61e-03	9.12e-03	-2.12e-03	3.08e-02	1.001
## 2377	-1.97e-03	2.54e-03	2.82e-03	-8.44e-04	5.95e-04	-8.69e-03	1.008
## 2378	1.47e-03	-3.86e-03	6.58e-03	4.05e-03	-1.71e-03	1.26e-02	1.006
## 2379	1.17e-03	1.07e-03	-8.95e-04	3.93e-03	1.31e-03	-6.38e-03	1.006
## 2380	1.08e-03	-2.90e-03	1.22e-03	1.39e-04	1.49e-03	-1.04e-02	1.010
## 2381	4.75e-04	1.57e-03	-2.03e-03	-4.05e-03	-1.42e-03	-1.03e-02	1.005
## 2382	1.75e-04	-9.78e-04	-5.13e-03	-1.21e-03	-1.22e-03	1.20e-02	1.006
## 2383	2.15e-02	-9.23e-02	8.83e-03	1.64e-02	2.01e-02	-1.40e-01	1.001
## 2384	5.73e-05	1.78e-04	-6.79e-05	-8.56e-05	2.39e-04	4.64e-04	1.007
## 2385	9.50e-03	1.58e-02	8.87e-03	9.16e-03	-4.68e-03	-4.19e-02	1.007
## 2386	-2.07e-02	-4.43e-02	5.36e-03	4.32e-02	-3.77e-02	-1.10e-01	0.991
## 2387	-7.88e-03	1.82e-02	6.25e-03	-6.67e-03	1.14e-02	3.41e-02	1.004
## 2388	-6.50e-05	5.76e-03	-3.91e-03	6.78e-03	-1.13e-02	-2.63e-02	1.003
## 2389	-5.39e-05	1.51e-04	1.49e-04	-3.56e-04	1.45e-04	7.54e-04	1.006
## 2390	4.01e-04	5.51e-03	-4.57e-03	-9.61e-03	1.38e-02	2.39e-02	1.006
## 2391	-1.37e-03	-1.54e-02	8.54e-03	3.37e-03	-1.67e-02	-3.81e-02	1.009
## 2392	-4.23e-03	-1.93e-02	4.34e-03	1.31e-02	-8.80e-04	-5.00e-02	1.010
## 2393	-2.98e-04	-7.42e-04	2.81e-04	1.12e-03	-1.90e-04	-1.88e-03	1.006
## 2394	-2.08e-02	-2.40e-02	1.98e-03	2.62e-02	-8.49e-03	-6.55e-02	0.998
## 2395	1.40e-02	2.30e-02	-7.51e-02	-9.87e-02	2.23e-02	-1.94e-01	1.004
## 2396	-2.55e-03	1.19e-02	9.59e-04	-6.29e-03	9.18e-03	3.50e-02	1.004
## 2397	8.28e-03	-3.30e-02	2.69e-02	3.14e-03	2.64e-03	-5.15e-02	1.006
## 2398	6.41e-03	-3.58e-03	-1.18e-02	6.02e-03	-1.83e-02	-3.89e-02	1.003
## 2399	7.64e-03	-1.77e-03	6.01e-04	1.04e-02	-1.11e-02	-3.27e-02	1.003
## 2400	2.46e-03	-5.65e-03	2.11e-04	-2.09e-04	-6.95e-04	-1.24e-02	1.008
## 2401	-5.80e-05	2.14e-04	-9.92e-06	1.18e-04	1.15e-04	5.21e-04	1.006
## 2402	-2.01e-03	1.52e-03	6.36e-04	-8.27e-04	3.31e-03	6.57e-03	1.007
## 2403	-1.39e-02	3.12e-02	2.42e-03	-1.87e-02	1.58e-03	5.67e-02	0.999
## 2404	1.52e-02	-2.16e-02	-1.00e-02	1.26e-02	-1.76e-02	-6.29e-02	1.000
## 2405	-5.49e-03	-9.06e-03	-5.33e-03	3.34e-03	-1.40e-02	-3.05e-02	1.006
## 2406	3.96e-04	2.41e-04	-7.78e-05	5.98e-04	1.02e-03	-1.99e-03	1.010
## 2407	-4.07e-03	-1.66e-02	4.74e-03	1.20e-03	-1.40e-02	4.25e-02	1.008
## 2408	1.85e-02	-2.25e-02	-8.76e-03	-1.39e-02	2.84e-02	-7.56e-02	1.005
## 2409	1.58e-02	-2.38e-02	-5.23e-03	5.34e-04	-5.78e-03	-4.81e-02	1.001
## 2410	-1.49e-03	3.22e-03	-3.78e-03	-2.33e-03	3.02e-03	9.16e-03	1.008
## 2411	-1.58e-02	3.50e-03	-1.64e-02	-3.20e-02	2.07e-02	5.71e-02	1.005
## 2412	1.80e-02	-3.28e-03	-2.32e-02	-1.37e-02	-3.57e-02	-7.38e-02	1.002
## 2413	-4.55e-03	2.02e-02	-6.50e-03	-7.45e-04	-7.86e-04	2.83e-02	1.007
## 2414	1.02e-03	-4.83e-03	-3.29e-03	-5.47e-03	-1.74e-03	-1.84e-02	1.009
## 2415	-1.90e-02	-2.51e-02	-1.93e-02	-2.01e-02	2.15e-02	8.50e-02	1.000
## 2416	2.76e-03	2.63e-03	9.09e-03	1.09e-02	5.82e-03	2.38e-02	1.010
## 2417	9.18e-03	-1.87e-03	1.52e-02	1.10e-02	-1.60e-02	-4.37e-02	1.005
## 2418	8.26e-03	-1.38e-02	6.56e-02	5.07e-02	-1.57e-02	-1.08e-01	0.995
## 2419	-1.15e-02	1.99e-02	1.98e-04	-1.84e-03	3.30e-02	5.74e-02	1.005
## 2420	8.62e-03	-5.92e-03	1.70e-02	2.41e-03	-3.18e-02	-7.31e-02	1.005

## 2421	2.56e-03	-6.39e-04	-6.54e-04	6.75e-04	4.14e-03	-1.69e-02	1.009
## 2422	1.35e-02	1.70e-02	-9.49e-03	-1.88e-02	1.95e-02	5.96e-02	0.999
## 2423	-1.33e-02	7.94e-03	-1.11e-02	-1.50e-03	-3.49e-02	-6.94e-02	1.004
## 2424	8.90e-03	-1.18e-02	-4.04e-03	7.03e-03	-3.10e-02	-5.71e-02	1.002
## 2425	-4.00e-03	6.14e-04	4.46e-03	1.84e-03	9.59e-03	1.84e-02	1.007
## 2426	2.11e-02	-3.18e-03	-5.49e-02	3.40e-03	6.18e-02	-1.64e-01	0.986
## 2427	2.04e-02	-3.99e-02	6.14e-04	-1.46e-03	-1.41e-02	-8.54e-02	0.989
## 2428	1.09e-02	-9.07e-03	1.89e-02	1.81e-02	-1.80e-02	-4.27e-02	1.004
## 2429	3.08e-03	-1.09e-02	4.17e-03	2.73e-03	-3.89e-03	-1.89e-02	1.006
## 2430	-3.99e-03	4.43e-03	-4.19e-03	-2.55e-02	7.71e-03	4.10e-02	1.005
## 2431	1.02e-03	2.45e-03	1.45e-03	2.81e-04	-4.38e-03	-1.43e-02	1.007
## 2432	8.26e-03	-3.64e-03	-2.01e-03	-4.97e-04	-7.21e-03	-2.58e-02	1.006
## 2433	1.38e-02	-4.99e-02	2.38e-02	5.47e-03	8.91e-03	-6.41e-02	1.005
## 2434	4.60e-03	-1.83e-02	-2.28e-05	8.14e-03	-1.17e-02	-4.91e-02	0.998
## 2435	3.94e-03	-1.32e-02	1.10e-03	2.52e-03	2.49e-03	-2.40e-02	1.007
## 2436	1.26e-02	4.70e-02	-8.65e-02	-3.61e-02	3.55e-02	1.35e-01	0.996
## 2437	8.96e-05	-2.21e-02	3.19e-03	7.17e-03	-1.31e-03	-3.33e-02	1.005
## 2438	-8.08e-03	-5.60e-03	1.57e-02	-3.19e-02	1.38e-02	5.65e-02	1.000
## 2439	-2.66e-02	7.16e-02	-2.76e-02	-3.99e-02	6.22e-03	1.11e-01	0.992
## 2440	2.72e-02	-7.64e-03	-2.13e-02	-3.28e-02	-5.63e-02	-1.27e-01	0.994
## 2441	1.17e-03	1.42e-02	-4.52e-04	1.90e-03	8.86e-03	2.55e-02	1.007
## 2442	-5.18e-03	-5.63e-03	8.53e-05	-7.33e-03	-3.65e-02	1.03e-01	1.003
## 2443	-3.32e-03	-3.27e-03	1.05e-02	4.29e-02	-2.12e-02	-6.60e-02	1.004
## 2444	8.83e-02	-3.44e-02	-5.94e-02	-4.73e-02	4.68e-02	-3.06e-01	0.966
## 2445	-5.88e-04	-8.79e-04	6.69e-04	4.82e-04	1.06e-03	2.67e-03	1.009
## 2446	1.23e-02	-8.23e-03	3.86e-04	1.13e-02	-9.82e-03	-5.28e-02	1.005
## 2447	8.71e-03	-8.45e-03	2.33e-02	2.25e-02	-1.05e-02	-4.20e-02	1.007
## 2448	-5.53e-03	2.95e-03	1.20e-03	-2.19e-03	-1.58e-02	2.52e-02	1.007
## 2449	4.42e-03	-1.11e-02	1.07e-02	4.85e-03	-1.80e-02	-3.24e-02	1.008
## 2450	4.97e-03	-9.95e-03	-2.19e-03	-9.97e-04	-2.52e-02	-4.09e-02	1.005
## 2451	8.27e-04	4.08e-02	-1.74e-02	-3.62e-03	2.30e-02	5.47e-02	1.002
## 2452	-1.19e-02	8.55e-03	-9.15e-03	-3.49e-03	2.36e-03	-2.01e-02	1.023
## 2453	-9.59e-04	-1.35e-02	1.33e-02	-3.15e-02	2.68e-02	-8.43e-02	1.004
## 2454	1.51e-04	4.68e-04	2.80e-03	3.45e-03	5.33e-04	6.71e-03	1.006
## 2455	4.66e-03	7.15e-03	1.85e-02	-1.52e-02	-3.11e-03	-5.34e-02	1.007
## 2456	1.56e-06	-9.99e-06	-1.13e-05	7.71e-06	-9.83e-06	3.96e-05	1.006
## 2457	-3.11e-03	-7.30e-03	3.75e-03	1.34e-02	-1.91e-03	2.62e-02	1.003
## 2458	2.41e-03	-9.32e-03	2.25e-03	-4.85e-03	5.84e-03	-1.84e-02	1.007
## 2459	9.11e-04	-7.06e-03	-5.13e-03	-1.07e-02	-7.38e-03	-2.62e-02	1.005
## 2460	-6.47e-05	7.57e-04	-8.25e-04	-1.30e-03	3.41e-04	-4.16e-03	1.005
## 2461	5.01e-03	-4.82e-03	-1.59e-02	-1.50e-02	1.41e-02	-4.35e-02	1.003
## 2462	1.23e-03	3.90e-04	3.07e-03	-3.34e-03	9.65e-04	-1.10e-02	1.007
## 2463	-7.61e-04	1.41e-03	1.11e-04	1.80e-04	1.13e-03	2.59e-03	1.005
## 2464	-8.42e-03	-1.05e-02	5.17e-02	1.20e-02	1.15e-03	-9.50e-02	0.998
## 2465	-1.39e-02	6.64e-03	-3.46e-02	-3.22e-02	-6.59e-04	-4.96e-02	1.003
## 2466	-1.04e-03	-3.09e-03	-4.21e-03	2.12e-03	-2.03e-03	1.38e-02	1.004
## 2467	-2.63e-04	2.86e-04	-1.26e-03	-3.11e-03	3.19e-03	-9.59e-03	1.006
## 2468	3.11e-03	-3.26e-03	-8.98e-03	-1.37e-02	8.21e-03	-2.89e-02	1.005
## 2469	1.22e-04	-6.53e-04	1.79e-03	-7.08e-04	6.58e-04	-3.65e-03	1.006
## 2470	-9.11e-04	4.18e-03	-2.10e-03	-1.12e-02	-1.50e-03	-2.35e-02	1.004
## 2471	3.89e-03	-6.79e-04	-5.26e-03	-8.05e-03	2.67e-03	-2.76e-02	1.002
## 2472	-1.05e-03	8.65e-03	-4.87e-03	-5.52e-03	6.05e-04	-1.49e-02	1.005
## 2473	1.24e-03	3.18e-03	-3.59e-03	-5.32e-03	3.18e-03	-1.34e-02	1.005
## 2474	-3.45e-04	-7.18e-04	1.66e-03	-4.30e-03	1.13e-03	-1.09e-02	1.005

## 2475	5.39e-04	6.84e-03	4.34e-04	-2.99e-03	1.03e-03	-1.59e-02	1.006
## 2476	1.47e-03	2.85e-04	1.21e-02	-7.22e-03	1.04e-02	-4.11e-02	1.001
## 2477	-4.88e-04	-1.32e-02	-1.05e-02	-1.63e-02	-3.13e-03	-3.87e-02	1.003
## 2478	-1.52e-03	-3.78e-03	6.07e-03	4.67e-03	-4.30e-03	1.50e-02	1.006
## 2479	-1.40e-04	4.92e-03	-6.12e-03	2.00e-03	2.00e-03	1.09e-02	1.005
## 2480	-4.63e-03	-4.07e-03	1.47e-02	-2.08e-02	9.45e-03	-5.82e-02	0.997
## 2481	5.37e-04	-2.08e-03	-5.29e-03	-1.55e-02	-2.79e-03	-3.22e-02	1.003
## 2482	-1.17e-02	-6.25e-03	6.54e-03	-1.04e-02	4.31e-03	-2.96e-02	1.003
## 2483	-1.57e-05	-4.08e-04	4.19e-05	1.06e-04	-1.39e-04	1.07e-03	1.006
## 2484	-2.58e-04	2.48e-03	-1.05e-03	-4.22e-03	-2.10e-03	-9.83e-03	1.005
## 2485	-1.55e-03	-2.68e-04	-1.44e-02	-2.67e-02	2.18e-03	-5.28e-02	1.001
## 2486	-1.51e-03	1.17e-03	-1.34e-03	-4.87e-03	3.09e-04	-1.26e-02	1.006
## 2487	1.20e-04	6.95e-03	-1.15e-02	-4.78e-03	1.09e-04	-1.86e-02	1.008
## 2488	2.09e-04	1.43e-04	2.45e-04	6.89e-04	-2.63e-04	1.17e-03	1.006
## 2489	-4.26e-03	5.05e-03	-3.18e-04	-1.01e-02	4.79e-03	-3.73e-02	1.002
## 2490	4.81e-04	-8.94e-04	-1.10e-03	1.16e-03	-7.93e-04	4.24e-03	1.006
## 2491	8.80e-04	-7.70e-03	-8.11e-04	3.72e-03	-8.52e-03	2.37e-02	1.004
## 2492	-2.23e-02	-9.64e-03	2.47e-02	-5.79e-03	1.83e-02	7.14e-02	1.002
## 2493	2.19e-03	9.68e-03	-1.27e-02	-1.14e-02	8.04e-03	-3.79e-02	1.000
## 2494	2.47e-04	6.66e-03	-1.27e-03	-3.33e-03	5.82e-04	-1.53e-02	1.005
## 2495	5.04e-03	-1.49e-03	-1.23e-02	-8.63e-03	6.25e-03	-3.26e-02	1.001
## 2496	-3.67e-03	-1.15e-02	7.11e-03	7.28e-03	-2.96e-03	2.50e-02	1.003
## 2497	5.67e-04	1.82e-04	-1.07e-03	-2.16e-03	5.08e-04	-4.63e-03	1.005
## 2498	3.27e-03	1.59e-02	-1.18e-02	-9.94e-03	4.11e-03	-3.02e-02	1.002
## 2499	-7.76e-04	7.44e-04	8.22e-04	-2.90e-03	2.82e-03	-2.00e-02	1.004
## 2500	9.70e-04	-2.76e-03	3.97e-02	-8.58e-03	1.11e-02	-6.25e-02	1.003
## 2501	-3.44e-02	9.97e-03	-7.23e-02	-2.62e-02	3.98e-03	-1.05e-01	0.996
## 2502	-3.56e-05	-1.28e-04	1.55e-04	-1.38e-04	-4.87e-05	-4.87e-04	1.005
## 2503	9.17e-03	1.34e-04	-5.78e-03	-1.48e-02	8.38e-03	-4.47e-02	1.003
## 2504	-1.15e-03	-5.50e-03	3.10e-03	-7.54e-03	5.06e-04	-1.88e-02	1.004
## 2505	-1.81e-03	-1.74e-02	4.17e-03	5.85e-03	-5.92e-03	2.53e-02	1.007
## 2506	-7.61e-04	3.86e-03	-9.27e-03	-1.90e-02	-1.11e-02	-3.14e-02	1.001
## 2507	-5.14e-06	-2.70e-04	2.91e-04	2.52e-04	-8.50e-05	8.52e-04	1.005
## 2508	1.08e-03	-7.70e-03	-1.85e-03	9.72e-03	-3.00e-03	2.74e-02	1.003
## 2509	-8.37e-04	-2.50e-03	-4.41e-03	-1.41e-02	2.61e-03	-2.59e-02	1.004
## 2510	-3.21e-04	-4.99e-04	3.01e-04	2.52e-04	1.23e-04	2.16e-03	1.013
## 2511	-1.97e-04	2.08e-03	-8.89e-04	-4.75e-03	3.56e-03	-1.43e-02	1.005
## 2512	-3.61e-03	-3.90e-03	5.23e-03	3.59e-03	-3.85e-04	1.76e-02	1.004
## 2513	3.85e-03	-1.67e-03	4.55e-03	7.07e-03	-8.73e-04	1.15e-02	1.005
## 2514	2.38e-04	4.04e-03	-8.55e-03	2.16e-03	-8.27e-04	1.38e-02	1.006
## 2515	4.94e-03	-2.11e-03	-6.98e-03	-1.12e-02	8.06e-03	-3.42e-02	1.001
## 2516	3.05e-03	1.71e-03	-1.37e-02	-1.20e-02	3.88e-03	-2.38e-02	1.005
## 2517	-1.31e-04	-9.79e-03	-1.17e-02	9.44e-03	4.29e-03	2.91e-02	1.005
## 2518	4.42e-04	-1.58e-03	-6.64e-05	-7.05e-04	8.66e-04	-3.20e-03	1.008
## 2519	-2.30e-03	5.26e-03	3.17e-03	6.42e-03	-3.85e-03	1.49e-02	1.007
## 2520	5.08e-04	-1.70e-03	1.14e-02	1.31e-02	-5.01e-03	2.29e-02	1.005
## 2521	1.03e-03	-1.23e-03	1.14e-02	-4.47e-03	1.53e-03	-2.17e-02	1.006
## 2522	-1.28e-02	3.08e-03	-9.46e-03	-2.90e-02	5.90e-03	-4.03e-02	1.002
## 2523	2.89e-03	-8.27e-03	1.15e-02	-2.28e-02	1.45e-03	-5.06e-02	1.005
## 2524	-2.48e-03	6.61e-03	-7.42e-03	-9.12e-03	1.99e-03	-1.74e-02	1.005
## 2525	-5.97e-03	-2.38e-02	9.65e-03	-4.44e-03	-1.85e-02	-5.50e-02	0.997
## 2526	-3.69e-03	-3.64e-02	6.32e-02	-7.49e-03	-3.53e-03	-8.89e-02	1.003
## 2527	5.07e-04	6.72e-05	-2.93e-03	-4.40e-03	3.18e-03	-1.10e-02	1.005
## 2528	-1.39e-03	-1.06e-02	2.93e-03	4.08e-03	2.61e-03	1.84e-02	1.004

## 2529	1.18e-03	2.23e-04	-1.27e-02	-1.29e-02	3.31e-03	-2.11e-02	1.005
## 2530	1.94e-03	-3.19e-03	-6.57e-04	-4.11e-03	3.69e-03	-1.22e-02	1.007
## 2531	-1.30e-03	2.18e-02	-2.12e-02	1.63e-03	6.81e-03	-3.63e-02	1.005
## 2532	6.52e-03	2.78e-02	-9.00e-04	-2.42e-02	1.47e-02	-9.07e-02	0.989
## 2533	6.81e-04	5.30e-04	2.04e-03	-9.22e-04	-2.05e-04	-5.08e-03	1.006
## 2534	-1.02e-03	4.43e-03	-6.75e-04	3.52e-03	-4.26e-03	1.30e-02	1.007
## 2535	-5.07e-04	-3.78e-03	-7.12e-03	-1.15e-02	3.19e-03	-2.90e-02	1.002
## 2536	3.40e-04	-5.35e-04	2.12e-04	6.50e-04	-1.72e-03	5.14e-03	1.009
## 2537	-5.87e-04	-2.03e-04	-4.90e-04	-1.18e-03	1.46e-03	2.82e-03	1.005
## 2538	1.58e-02	8.08e-03	-8.23e-03	8.69e-03	5.17e-02	-7.74e-02	1.003
## 2539	-4.08e-03	-3.27e-03	-8.54e-04	3.54e-03	-2.04e-02	2.99e-02	1.007
## 2540	-1.06e-02	1.12e-02	9.57e-03	4.17e-03	-4.04e-02	8.37e-02	1.006
## 2541	-1.13e-02	-1.37e-02	-4.44e-02	-8.30e-03	-3.72e-02	1.19e-01	1.001
## 2542	4.73e-03	5.13e-04	-1.24e-02	-1.77e-02	-3.70e-02	5.40e-02	1.006
## 2543	-1.13e-02	2.83e-02	2.30e-03	8.67e-03	1.41e-02	4.90e-02	1.006
## 2544	6.11e-03	-4.56e-03	4.75e-03	4.68e-03	3.05e-02	-4.53e-02	1.006
## 2545	8.07e-03	1.99e-04	3.20e-02	3.44e-03	3.18e-02	-6.44e-02	1.009
## 2546	3.41e-02	9.32e-03	3.90e-02	-3.66e-02	4.10e-03	-1.90e-01	1.001
## 2547	1.30e-03	-1.74e-03	3.62e-03	8.89e-04	8.03e-03	-1.08e-02	1.008
## 2548	5.36e-03	-7.78e-03	7.53e-03	-6.84e-03	1.34e-02	-3.28e-02	1.009
## 2549	-3.90e-02	-1.90e-02	-6.52e-02	3.00e-02	-5.52e-02	2.48e-01	0.986
## 2550	6.58e-03	-1.87e-02	1.13e-02	7.45e-03	-2.15e-02	-4.63e-02	1.007
## 2551	-9.53e-05	2.76e-05	-4.07e-06	4.36e-05	-3.74e-04	5.41e-04	1.007
## 2552	-2.08e-02	5.81e-03	-1.13e-02	-1.17e-02	-1.21e-02	7.15e-02	0.998
## 2553	-2.17e-03	-5.01e-04	-1.01e-02	-4.75e-03	6.50e-03	1.77e-02	1.009
## 2554	9.87e-04	4.83e-02	-2.53e-02	-2.86e-02	-6.80e-02	1.44e-01	1.000
## 2555	4.93e-04	3.24e-03	-7.76e-04	-4.71e-04	-5.92e-04	-5.17e-03	1.006
## 2556	-7.62e-05	3.80e-04	-9.66e-05	7.17e-05	4.43e-05	7.51e-04	1.006
## 2557	3.29e-03	6.26e-02	-2.08e-02	1.30e-02	-7.77e-02	1.44e-01	0.995
## 2558	2.10e-04	-1.30e-02	5.19e-03	3.17e-03	3.72e-04	1.99e-02	1.005
## 2559	2.11e-03	1.66e-02	-1.72e-02	8.31e-03	-1.14e-02	4.78e-02	1.011
## 2560	-5.21e-03	-2.65e-03	-1.23e-02	-1.28e-02	1.96e-02	-7.99e-02	1.009
## 2561	-8.38e-04	-1.79e-04	-1.06e-03	-5.82e-04	-1.59e-03	-5.19e-03	1.005
## 2562	-1.36e-05	-4.71e-04	-2.29e-04	1.04e-04	3.35e-03	-5.34e-03	1.009
## 2563	-4.61e-03	7.97e-02	-1.06e-03	6.04e-04	-1.11e-01	2.12e-01	0.982
## 2564	8.32e-03	-2.71e-02	4.72e-02	2.99e-02	-4.41e-02	1.77e-01	0.996
## 2565	9.89e-03	6.92e-03	2.52e-02	2.07e-02	-2.35e-02	9.09e-02	1.010
## 2566	1.73e-03	7.79e-03	-3.31e-03	3.12e-03	-9.44e-03	2.48e-02	1.010
## 2567	4.12e-03	3.36e-02	6.92e-03	2.26e-02	-1.98e-02	9.56e-02	1.009
## 2568	6.24e-04	-1.50e-02	-6.64e-03	-8.42e-03	-2.62e-02	-5.32e-02	1.007
## 2569	6.71e-04	4.85e-03	2.89e-03	1.43e-03	1.22e-03	1.23e-02	1.008
## 2570	-1.27e-04	-1.04e-03	1.22e-03	-6.33e-04	4.03e-04	2.97e-03	1.006
## 2571	-2.34e-04	-6.85e-03	1.49e-02	6.40e-03	2.46e-03	1.82e-02	1.007
## 2572	2.38e-03	1.84e-02	-7.51e-03	-5.82e-03	-8.64e-03	-3.32e-02	1.002
## 2573	9.09e-03	3.52e-02	7.74e-03	3.86e-02	6.85e-03	8.84e-02	1.023
## 2574	-1.65e-03	2.03e-02	-1.81e-03	4.05e-03	8.43e-03	3.89e-02	1.003
## 2575	-1.70e-03	-1.47e-03	-1.43e-02	-2.49e-03	5.70e-03	3.08e-02	1.006
## 2576	-1.63e-03	-8.80e-03	2.01e-03	-1.76e-03	1.03e-02	-2.78e-02	1.011
## 2577	-1.07e-03	-4.57e-04	-1.34e-02	-1.30e-02	-1.01e-02	-2.61e-02	1.006
## 2578	5.04e-05	-1.18e-03	-1.68e-03	-1.76e-03	-3.04e-04	-4.91e-03	1.005
## 2579	7.45e-03	4.90e-02	2.06e-02	4.66e-02	-7.23e-03	1.42e-01	1.014
## 2580	-3.86e-03	2.24e-02	-1.36e-02	-1.78e-02	2.29e-02	1.06e-01	0.993
## 2581	-6.41e-03	1.63e-02	2.44e-02	5.67e-04	-2.10e-03	6.87e-02	1.004
## 2582	3.12e-03	3.22e-03	1.54e-03	3.19e-03	-7.43e-03	1.59e-02	1.011



## 2583	6.99e-04	1.16e-03	1.01e-03	1.36e-03	1.30e-03	5.74e-03	1.006
## 2584	5.84e-03	2.53e-02	-1.66e-02	-9.82e-03	-3.42e-02	6.18e-02	1.007
## 2585	7.95e-03	1.63e-02	5.49e-03	2.15e-02	-3.32e-02	6.10e-02	1.007
## 2586	-5.36e-05	3.92e-04	-5.04e-04	-7.68e-07	-4.58e-04	-1.55e-03	1.006
## 2587	3.77e-04	5.32e-02	6.13e-03	2.46e-02	-3.83e-02	1.11e-01	1.004
## 2588	-3.24e-03	1.33e-02	4.80e-03	7.29e-03	1.20e-02	2.67e-02	1.005
## 2589	-1.01e-03	-4.20e-03	-1.82e-02	-8.60e-03	2.52e-03	-4.66e-02	1.004
## 2590	-1.11e-02	1.38e-02	2.86e-02	-3.78e-02	3.74e-02	1.46e-01	0.978
## 2591	-1.63e-03	1.67e-02	1.14e-02	7.36e-03	1.08e-02	3.82e-02	1.005
## 2592	-8.60e-04	-2.21e-02	1.46e-03	-6.41e-03	7.06e-03	-3.28e-02	1.008
## 2593	-1.75e-02	7.02e-03	-8.11e-02	-5.25e-02	-2.20e-02	-1.14e-01	0.990
## 2594	9.01e-03	1.67e-02	2.53e-02	4.73e-02	8.31e-03	1.85e-01	1.013
## 2595	2.05e-04	-9.33e-04	-1.07e-03	-1.31e-03	-5.92e-04	-3.35e-03	1.005
## 2596	1.13e-02	3.20e-02	-4.73e-03	-5.55e-03	-8.95e-02	1.92e-01	0.989
## 2597	6.44e-03	1.74e-02	-1.54e-04	1.82e-02	-4.40e-02	8.44e-02	1.004
## 2598	2.39e-02	-6.24e-02	8.61e-02	1.59e-02	-1.03e-01	2.34e-01	0.993
## 2599	3.37e-03	3.37e-03	-5.34e-03	3.29e-03	-1.97e-02	3.32e-02	1.008
## 2600	2.68e-02	4.95e-02	2.68e-02	8.78e-02	9.20e-02	2.35e-01	0.966
## 2601	6.13e-03	2.01e-02	-2.44e-02	2.35e-03	-4.50e-02	7.39e-02	1.006
## 2602	-3.38e-03	-1.79e-03	-6.87e-02	-3.95e-02	2.92e-02	1.38e-01	0.998
## 2603	2.53e-03	-6.14e-03	-4.41e-03	-4.25e-03	-2.16e-02	3.39e-02	1.007
## 2604	-5.85e-04	-8.99e-04	-4.35e-04	-7.96e-04	7.08e-04	-3.93e-03	1.006
## 2605	-4.83e-03	-1.96e-02	-2.16e-02	-6.64e-03	6.53e-04	-5.02e-02	0.999
## 2606	-1.85e-03	-6.64e-03	3.93e-03	-1.92e-02	1.64e-03	5.17e-02	1.002
## 2607	2.76e-04	-5.45e-03	1.10e-03	-8.71e-04	9.35e-04	-7.74e-03	1.008
## 2608	-1.79e-04	2.41e-03	2.02e-03	3.33e-04	1.75e-02	-2.80e-02	1.008
## 2609	-9.66e-04	-3.22e-04	-1.19e-03	2.42e-03	-1.85e-03	-5.91e-03	1.005
## 2610	-1.47e-02	1.74e-02	-6.41e-02	-5.28e-02	1.51e-02	8.73e-02	0.994
## 2611	6.50e-04	1.32e-02	1.26e-02	2.33e-03	6.66e-03	6.48e-02	1.006
## 2612	-9.07e-04	-6.95e-04	2.77e-03	1.03e-03	6.97e-04	3.59e-03	1.007
## 2613	2.06e-03	-2.06e-03	-5.47e-03	1.97e-03	4.04e-03	2.30e-02	1.004
## 2614	1.12e-04	5.09e-04	-4.40e-04	1.88e-04	4.20e-04	1.11e-03	1.006
## 2615	-2.16e-03	5.68e-04	3.66e-04	-9.69e-04	9.71e-03	-1.52e-02	1.008
## 2616	-2.52e-04	1.61e-02	4.33e-03	-1.32e-03	8.74e-03	3.59e-02	1.002
## 2617	2.50e-03	1.11e-02	3.69e-03	1.10e-02	-3.20e-02	7.17e-02	1.007
## 2618	8.33e-03	5.93e-03	9.37e-03	1.31e-02	-1.71e-02	9.31e-02	1.010
## 2619	4.70e-03	2.99e-03	-1.23e-03	3.18e-03	-1.78e-03	1.44e-02	1.005
## 2620	-1.03e-02	-8.41e-03	1.64e-02	-6.60e-03	2.50e-02	5.67e-02	0.998
## 2621	-2.03e-03	-3.49e-03	9.42e-03	4.23e-03	4.62e-03	1.21e-02	1.007
## 2622	6.69e-03	-1.20e-02	-1.66e-04	-3.06e-03	-4.11e-04	-2.44e-02	1.005
## 2623	-1.05e-03	-3.68e-05	8.34e-04	-1.79e-04	9.25e-04	3.01e-03	1.005
## 2624	-7.23e-03	-3.75e-03	1.23e-02	-6.97e-03	-2.63e-02	3.95e-02	1.007
## 2625	-3.95e-03	2.98e-03	8.28e-03	-5.08e-04	3.44e-03	1.41e-02	1.007
## 2626	6.18e-02	4.63e-02	-9.85e-02	-3.12e-02	3.74e-02	-2.76e-01	0.971
## 2627	1.91e-02	1.99e-02	-1.11e-02	2.65e-02	-2.65e-02	-1.05e-01	1.005
## 2628	1.10e-04	1.20e-02	1.01e-03	8.95e-03	1.97e-02	-3.10e-02	1.007
## 2629	-1.24e-03	-6.57e-03	1.37e-02	1.62e-02	1.33e-03	-4.19e-02	1.003
## 2630	-3.66e-04	1.12e-03	-5.24e-04	2.40e-03	6.59e-03	-1.06e-02	1.008
## 2631	-1.09e-02	-3.95e-03	-8.57e-03	3.49e-02	4.13e-02	-7.51e-02	1.006
## 2632	-6.67e-04	1.52e-03	-1.32e-05	4.19e-04	-2.60e-04	2.48e-03	1.007
## 2633	1.48e-02	-1.89e-02	-1.74e-03	4.35e-02	4.93e-02	-9.48e-02	1.005
## 2634	1.61e-03	-3.70e-03	-8.84e-05	-8.32e-04	2.69e-05	-6.15e-03	1.005
## 2635	-5.16e-03	1.22e-02	-1.31e-02	-5.89e-03	1.05e-02	2.50e-02	1.005
## 2636	2.42e-02	-3.87e-02	1.37e-02	-1.80e-02	3.97e-02	-1.12e-01	0.997

## 2637	-4.63e-02	1.40e-01	-1.27e-01	-8.47e-02	3.39e-02	2.04e-01	0.961
## 2638	2.49e-05	5.21e-03	-6.71e-03	-5.25e-03	-5.13e-04	1.12e-02	1.006
## 2639	7.55e-04	-6.14e-03	2.42e-04	-6.70e-04	-2.37e-02	4.43e-02	1.008
## 2640	1.58e-02	2.39e-02	5.16e-03	1.78e-02	-1.98e-02	-8.59e-02	1.003
## 2641	8.63e-04	3.29e-03	-5.90e-03	-2.14e-03	1.81e-02	-2.42e-02	1.006
## 2642	-2.70e-03	-6.57e-03	-3.53e-02	-2.15e-02	7.67e-02	-2.08e-01	0.979
## 2643	1.32e-02	1.47e-02	1.51e-02	3.10e-03	3.67e-02	-1.02e-01	1.004
## 2644	1.02e-03	-9.50e-04	6.29e-04	1.85e-03	-3.50e-04	-9.03e-03	1.007
## 2645	8.38e-04	-2.15e-04	2.79e-03	1.34e-04	6.64e-03	-1.50e-02	1.009
## 2646	-1.87e-01	-8.88e-02	1.18e-01	2.49e-01	1.81e-01	-4.55e-01	0.947
## 2647	-1.34e-02	1.97e-02	4.98e-03	-1.35e-02	-5.41e-03	4.71e-02	1.003
## 2648	-8.99e-05	3.95e-05	7.08e-03	2.75e-03	-8.12e-03	-1.63e-02	1.005
## 2649	1.14e-06	1.79e-05	1.66e-04	1.76e-04	7.31e-04	-1.53e-03	1.007
## 2650	1.99e-02	4.55e-03	-6.67e-03	5.92e-03	-1.88e-02	3.34e-02	1.009
## 2651	5.94e-04	-2.10e-03	3.79e-03	3.80e-03	-4.17e-03	-1.22e-02	1.007
## 2652	7.55e-03	-4.71e-02	1.46e-02	-5.82e-03	7.25e-03	-6.79e-02	1.006
## 2653	-2.05e-04	2.56e-03	2.76e-04	4.63e-03	-1.48e-03	-7.87e-03	1.005
## 2654	9.90e-05	1.56e-03	-3.99e-04	-6.82e-05	-3.97e-03	4.99e-03	1.008
## 2655	-2.27e-02	-6.44e-03	2.92e-02	2.33e-02	3.30e-02	9.57e-02	0.993
## 2656	4.58e-03	-2.68e-03	-1.19e-02	-1.60e-03	-1.32e-02	-2.62e-02	1.006
## 2657	7.83e-02	9.99e-05	-1.89e-02	-6.54e-02	-7.28e-02	1.54e-01	1.002
## 2658	2.83e-03	5.00e-03	1.50e-02	7.65e-03	-2.48e-02	4.71e-02	1.009
## 2659	5.33e-02	-9.96e-02	-3.69e-03	4.40e-02	-1.43e-01	-3.06e-01	0.958
## 2660	-2.50e-04	-1.18e-04	-9.61e-04	7.35e-04	1.44e-03	3.06e-03	1.010
## 2661	2.25e-02	-4.07e-02	-3.94e-03	2.80e-02	-2.12e-02	-7.96e-02	0.990
## 2662	-6.40e-03	9.52e-04	9.91e-03	-7.75e-03	-1.59e-03	2.78e-02	1.006
## 2663	-2.84e-03	-4.75e-03	-1.77e-03	-6.89e-03	-2.02e-02	3.35e-02	1.006
## 2664	-5.05e-03	6.35e-03	-2.09e-02	4.33e-03	1.21e-02	3.47e-02	1.002
## 2665	1.12e-02	-3.21e-03	-4.79e-03	1.96e-02	-2.68e-02	-5.42e-02	1.005
## 2666	2.79e-03	1.05e-03	-3.93e-04	-2.00e-03	-6.76e-03	-1.26e-02	1.008
## 2667	1.49e-03	-3.85e-03	3.19e-03	-2.95e-03	-4.85e-03	-1.26e-02	1.008
## 2668	-2.79e-02	1.52e-02	-1.43e-02	-5.91e-02	2.41e-02	8.61e-02	1.003
## 2669	-2.29e-02	-2.79e-03	2.64e-03	1.54e-02	8.51e-02	-1.59e-01	0.983
## 2670	-1.56e-02	2.97e-02	1.23e-02	-1.82e-04	-3.63e-03	6.20e-02	1.001
## 2671	-3.29e-03	4.23e-03	-1.47e-02	3.22e-03	1.19e-02	3.08e-02	1.013
## 2672	1.38e-03	-1.59e-03	-2.89e-03	-2.59e-03	-6.25e-03	-1.19e-02	1.011
## 2673	-1.79e-02	3.92e-02	2.74e-02	8.00e-04	3.44e-02	8.78e-02	0.995
## 2674	3.57e-03	8.04e-03	-1.01e-01	-2.27e-02	3.18e-02	-3.25e-01	0.977
## 2675	-1.25e-03	2.30e-03	-5.11e-04	1.00e-03	1.95e-03	6.45e-03	1.005
## 2676	3.18e-04	-2.22e-04	-2.23e-04	-5.36e-05	1.02e-04	-1.02e-03	1.007
## 2677	7.90e-05	3.46e-03	-3.37e-03	8.44e-03	1.46e-02	-2.98e-02	1.009
## 2678	-2.61e-04	6.72e-04	-1.31e-03	-5.73e-04	1.30e-03	3.08e-03	1.006
## 2679	1.57e-03	-3.52e-04	1.20e-04	6.05e-04	2.60e-04	-4.24e-03	1.006
## 2680	1.00e-02	-2.19e-02	-8.18e-03	-5.40e-03	1.95e-02	-5.48e-02	1.008
## 2681	7.96e-03	9.37e-03	6.08e-03	9.28e-03	-4.19e-03	-2.83e-02	1.006
## 2682	-4.81e-03	1.01e-01	-4.86e-03	4.01e-02	1.47e-02	1.54e-01	1.012
## 2683	2.65e-05	9.72e-05	-7.68e-05	8.67e-05	2.22e-04	-2.87e-04	1.009
## 2684	3.29e-03	3.23e-02	4.16e-02	-3.61e-02	4.06e-02	-1.98e-01	1.001
## 2685	-8.81e-05	7.29e-04	-1.47e-04	2.68e-04	3.15e-04	1.05e-03	1.006
## 2686	-8.99e-03	1.20e-02	-3.21e-02	3.18e-02	3.04e-02	9.30e-02	1.004
## 2687	1.60e-03	-1.54e-02	4.93e-03	-3.68e-04	-1.26e-03	-2.29e-02	1.003
## 2688	5.93e-03	7.38e-03	-1.27e-02	-1.45e-02	1.46e-02	-5.06e-02	1.011
## 2689	-5.67e-03	-7.03e-03	-3.08e-02	2.54e-02	-2.17e-02	9.39e-02	1.013
## 2690	2.40e-03	8.41e-04	1.54e-03	-8.87e-04	-4.25e-04	-7.97e-03	1.005

## 2691	-6.79e-05	-9.01e-05	2.51e-03	-5.01e-03	9.51e-03	-1.78e-02	1.009
## 2692	-3.82e-05	1.70e-04	4.26e-05	1.56e-04	2.41e-04	5.02e-04	1.006
## 2693	2.49e-03	6.70e-03	-1.85e-03	-9.55e-05	9.59e-03	1.97e-02	1.005
## 2694	-9.42e-03	-3.35e-03	1.99e-03	1.88e-03	1.12e-02	3.04e-02	1.003
## 2695	1.06e-02	-2.04e-03	-2.00e-02	-1.81e-02	4.38e-02	-9.98e-02	1.007
## 2696	2.85e-02	3.44e-02	-6.65e-02	-6.80e-02	4.38e-02	-2.24e-01	0.985
## 2697	-5.43e-03	-4.61e-03	3.18e-03	7.36e-03	7.81e-03	2.52e-02	1.008
## 2698	4.30e-05	8.66e-05	-3.33e-05	1.08e-04	-4.10e-05	-4.37e-04	1.005
## 2699	1.33e-03	-1.07e-02	7.05e-03	-2.04e-02	-5.62e-03	-6.86e-02	1.019
## 2700	3.08e-03	-9.41e-04	5.70e-03	-1.03e-02	2.62e-02	-4.37e-02	1.007
## 2701	1.53e-03	-5.92e-04	4.96e-03	-2.12e-03	5.95e-03	-1.12e-02	1.011
## 2702	1.99e-03	-4.05e-03	3.75e-03	2.35e-04	-7.50e-03	-1.34e-02	1.005
## 2703	-7.76e-03	-9.13e-03	8.97e-03	-1.44e-03	8.28e-03	2.93e-02	1.006
## 2704	-1.80e-03	4.37e-03	4.41e-03	4.70e-03	1.35e-03	1.10e-02	1.005
## 2705	-1.61e-03	-6.34e-03	3.89e-03	-2.33e-03	2.23e-03	-1.21e-02	1.006
## 2706	-1.15e-02	3.45e-03	-4.09e-02	-9.20e-03	-7.61e-03	6.93e-02	1.012
## 2707	-6.39e-04	7.61e-04	-4.66e-04	2.41e-03	4.01e-03	8.17e-03	1.006
## 2708	-1.93e-03	1.09e-02	-3.22e-03	1.14e-02	1.66e-02	3.21e-02	1.004
## 2709	2.99e-04	-1.49e-04	5.00e-04	-2.43e-04	-2.08e-04	-1.39e-03	1.007
## 2710	8.14e-04	2.16e-02	-1.67e-02	3.84e-03	3.92e-02	7.56e-02	0.997
## 2711	-7.54e-03	2.32e-02	3.44e-03	2.89e-03	1.21e-02	6.65e-02	1.011
## 2712	2.79e-03	5.73e-04	-2.76e-03	-6.08e-03	7.66e-03	-3.31e-02	1.011
## 2713	-3.63e-03	6.96e-03	-7.54e-03	-4.43e-03	1.45e-02	3.10e-02	1.003
## 2714	-3.22e-01	-1.82e-01	3.60e-01	-2.29e-01	-4.60e-03	1.74e+00	0.965
## 2715	-1.98e-03	-1.32e-03	8.38e-04	-2.26e-03	-9.62e-04	6.37e-03	1.009
## 2716	-7.84e-02	2.56e-02	6.09e-02	4.16e-03	4.88e-02	2.25e-01	1.007
## 2717	-2.95e-04	7.83e-04	-2.53e-03	1.41e-03	2.74e-03	6.84e-03	1.006
## 2718	-6.89e-02	1.14e-02	1.42e-02	-7.87e-02	1.84e-02	1.85e-01	1.008
## 2719	-1.38e-02	-1.10e-02	-2.33e-03	-8.84e-03	-1.06e-02	4.56e-02	1.006
## 2720	5.42e-02	8.33e-02	-3.09e-02	1.54e-01	1.50e-02	-2.12e-01	0.997
## 2721	-1.45e-02	-1.53e-02	1.59e-02	-7.59e-03	-8.28e-03	4.43e-02	1.007
## 2722	9.14e-03	9.81e-03	-1.36e-03	2.40e-02	2.63e-03	-3.25e-02	1.007
## 2723	-2.41e-02	-2.44e-02	2.83e-02	-3.10e-02	-2.55e-03	7.61e-02	1.005
## 2724	-7.74e-02	2.55e-02	5.13e-03	-1.28e-01	-1.97e-02	2.92e-01	1.021
## 2725	3.59e-04	-6.07e-05	-3.39e-04	5.29e-04	1.62e-04	-1.26e-03	1.008
## 2726	-9.77e-02	-8.33e-03	6.93e-02	-6.71e-02	8.41e-02	2.97e-01	0.983
## 2727	-7.16e-02	-1.28e-01	8.93e-02	-1.23e-01	-1.64e-02	3.36e-01	0.973
## 2728	-1.09e-03	-3.05e-03	4.88e-04	-6.58e-04	-8.40e-03	1.18e-02	1.009
## 2729	-9.13e-03	1.81e-03	5.43e-03	-5.84e-03	4.91e-03	2.83e-02	1.024
## 2730	-2.06e-02	-2.23e-02	2.02e-02	-1.08e-02	-6.74e-03	6.05e-02	1.011
## 2731	-1.82e-02	5.12e-03	5.81e-03	-2.46e-02	2.02e-03	4.99e-02	1.004
## 2732	-2.84e-02	-1.09e-02	-1.98e-02	-7.25e-02	-1.15e-02	9.77e-02	1.005
## 2733	2.21e-02	1.08e-02	-2.84e-03	4.62e-02	-1.73e-02	-7.37e-02	1.019
## 2734	4.65e-02	-1.13e-02	-1.69e-03	-1.57e-02	3.52e-02	-1.75e-01	1.005
## 2735	-4.95e-04	1.31e-04	-2.23e-04	-5.69e-04	-2.43e-04	-1.06e-03	1.007
## 2736	1.29e-02	6.58e-03	4.23e-02	1.29e-02	-2.69e-02	-1.05e-01	0.996
## 2737	-7.14e-04	-6.27e-04	-1.39e-03	-7.09e-03	-9.73e-03	-2.14e-02	1.009
## 2738	3.74e-04	7.00e-04	-1.28e-05	1.27e-03	8.17e-04	3.60e-03	1.008
## 2739	-2.28e-03	1.74e-02	-3.54e-03	1.19e-02	1.21e-02	3.07e-02	1.004
## 2740	-2.14e-05	-6.71e-03	4.04e-03	5.05e-04	-2.24e-03	1.31e-02	1.010
## 2741	-8.49e-02	1.75e-02	-4.41e-03	-4.76e-02	7.09e-02	-1.79e-01	1.002
## 2742	-1.08e-02	1.21e-02	-1.59e-03	-1.60e-03	-3.97e-03	-2.98e-02	1.003
## 2743	4.02e-03	-2.64e-03	2.22e-03	-4.48e-04	7.18e-03	1.91e-02	1.007
## 2744	6.49e-03	-2.60e-02	-1.93e-02	-5.00e-02	-5.82e-02	-1.48e-01	1.005

## 2745	-2.70e-03	2.02e-03	4.55e-04	-1.08e-03	-7.76e-04	-4.79e-03	1.007
## 2746	-1.26e-02	-4.69e-03	-2.44e-02	-3.32e-02	-1.19e-02	-6.59e-02	1.003
## 2747	-3.18e-02	-6.06e-03	4.02e-03	-9.23e-03	-9.30e-03	-4.45e-02	1.013
## 2748	-3.09e-03	1.85e-03	4.98e-03	1.29e-03	-3.17e-03	-1.66e-02	1.007
## 2749	-8.06e-02	-4.05e-02	1.68e-02	-2.14e-02	-2.43e-02	-1.20e-01	1.007
## 2750	1.46e-03	1.16e-03	6.22e-03	1.91e-03	-8.64e-03	-1.88e-02	1.005
## 2751	-1.08e-03	-4.32e-03	1.23e-02	1.89e-02	-3.24e-02	5.66e-02	1.008
## 2752	-5.93e-05	8.18e-04	5.23e-03	7.41e-03	-2.62e-03	-1.03e-02	1.005
## 2753	-6.83e-04	-1.73e-03	-2.13e-03	-9.61e-04	-6.37e-03	-1.30e-02	1.007
## 2754	-6.08e-03	3.16e-03	1.59e-03	1.22e-03	1.65e-02	4.98e-02	0.996
## 2755	6.92e-03	1.05e-03	-5.40e-03	-2.20e-03	-1.19e-02	-2.27e-02	1.003
## 2756	3.93e-04	4.52e-04	-2.62e-03	-1.40e-03	8.42e-03	1.55e-02	1.004
## 2757	-1.73e-02	-6.35e-03	2.62e-02	2.39e-02	-4.95e-02	1.12e-01	1.003
## 2758	7.81e-04	6.20e-04	-3.98e-04	-4.59e-04	-8.44e-05	-3.21e-03	1.005
## 2759	4.25e-03	-5.65e-02	1.58e-02	-4.62e-02	-4.72e-02	-1.19e-01	1.008
## 2760	5.91e-03	1.55e-03	-7.62e-03	-1.11e-02	1.85e-02	-4.33e-02	1.007
## 2761	-1.79e-03	9.00e-03	1.86e-04	1.28e-02	-1.71e-02	4.55e-02	1.007
## 2762	1.08e-02	8.20e-04	-2.58e-03	1.17e-02	9.43e-03	2.82e-02	1.005
## 2763	-1.38e-03	-4.30e-03	8.16e-03	6.27e-03	-7.87e-03	-2.31e-02	1.003
## 2764	4.45e-03	-4.36e-03	7.79e-03	-2.84e-03	1.23e-02	-3.27e-02	1.009
## 2765	3.05e-03	-7.08e-03	2.38e-02	4.04e-03	-7.13e-03	-3.41e-02	1.005
## 2766	-6.61e-03	-1.04e-02	-6.00e-03	1.26e-03	1.84e-03	3.46e-02	1.007
## 2767	-1.07e-02	-1.52e-03	-1.39e-03	-8.73e-04	-5.52e-03	-1.80e-02	1.007
## 2768	-4.45e-04	1.23e-04	-7.97e-04	-5.88e-04	9.52e-04	2.57e-03	1.005
## 2769	4.21e-03	-4.52e-03	4.12e-03	-2.54e-03	-8.49e-03	-2.00e-02	1.007
## 2770	-5.48e-03	-1.26e-02	-6.70e-03	-1.38e-03	1.39e-02	4.04e-02	1.004
## 2771	-2.06e-02	4.30e-03	-9.39e-05	1.52e-02	-4.37e-02	1.09e-01	1.003
## 2772	-4.57e-03	1.05e-02	-1.13e-02	1.44e-03	2.75e-03	2.45e-02	1.003
## 2773	-4.11e-04	2.74e-03	-8.96e-03	-4.68e-03	3.93e-03	-2.59e-02	1.004
## 2774	3.47e-03	6.77e-03	-1.86e-02	-8.27e-03	-1.26e-03	-2.97e-02	1.010
## 2775	5.15e-02	-2.45e-02	-4.96e-02	-3.52e-02	3.76e-02	-1.65e-01	0.998
## 2776	2.62e-03	-2.93e-04	-3.76e-02	-4.59e-02	-6.47e-03	-6.93e-02	1.007
## 2777	-5.28e-03	-1.02e-02	-7.25e-03	2.61e-03	-3.00e-03	3.09e-02	1.010
## 2778	6.56e-04	1.13e-03	-3.56e-05	-6.53e-04	3.43e-04	-2.81e-03	1.006
## 2779	-5.94e-04	7.76e-04	2.68e-04	3.22e-04	2.64e-04	2.32e-03	1.006
## 2780	-3.74e-03	-6.31e-03	1.42e-02	-2.47e-03	1.49e-03	2.00e-02	1.008
## 2781	1.02e-02	-7.96e-03	-4.02e-03	4.23e-03	-1.50e-02	-3.70e-02	1.007
## 2782	3.19e-03	1.16e-02	-3.89e-02	-3.49e-02	-4.57e-03	-7.13e-02	0.997
## 2783	-1.12e-03	-3.69e-03	-1.32e-03	3.03e-03	2.31e-03	1.17e-02	1.012
## 2784	-1.84e-03	-8.46e-03	1.41e-03	7.34e-04	-2.72e-03	1.29e-02	1.007
## 2785	2.37e-02	-3.41e-02	-3.33e-02	-5.09e-02	1.05e-02	-1.67e-01	1.018
## 2786	-1.31e-03	2.87e-03	8.07e-04	1.81e-03	6.10e-04	1.53e-02	1.007
## 2787	4.67e-03	2.78e-02	-4.45e-03	-9.02e-03	8.36e-03	-5.69e-02	1.001
## 2788	6.07e-03	2.73e-02	-4.64e-02	-1.76e-02	-1.88e-02	-9.34e-02	0.994
## 2789	1.30e-02	1.57e-02	-8.59e-02	-8.03e-02	1.04e-02	-1.35e-01	0.986
## 2790	1.95e-02	7.06e-03	1.48e-03	4.15e-02	2.82e-02	-9.38e-02	1.022
## 2791	9.98e-04	-4.74e-03	7.19e-03	5.57e-03	-4.85e-05	-1.17e-02	1.011
## 2792	-6.35e-04	-5.14e-03	-6.92e-03	-9.63e-03	5.41e-04	-2.11e-02	1.006
## 2793	-1.62e-03	1.93e-03	2.04e-05	5.91e-04	-2.23e-03	-1.07e-02	1.008
## 2794	7.01e-03	2.39e-02	-4.56e-02	-3.30e-02	-3.68e-04	-7.72e-02	1.002
## 2795	7.30e-03	1.69e-02	-6.69e-02	-3.58e-02	6.44e-03	-7.86e-02	1.002
## 2796	5.37e-04	5.16e-03	1.14e-02	5.08e-03	-1.34e-02	-6.32e-02	1.004
## 2797	2.61e-03	-3.31e-02	1.85e-03	-7.83e-03	-1.18e-03	-5.10e-02	1.006
## 2798	5.81e-03	-1.99e-02	-3.61e-02	-3.46e-02	4.66e-03	-6.30e-02	1.007

## 2799	4.65e-03	1.04e-02	-1.66e-03	-7.00e-03	2.49e-03	-3.85e-02	1.006
## 2800	8.36e-03	-4.67e-02	9.35e-03	-6.79e-03	8.40e-03	-6.44e-02	1.008
## 2801	1.51e-03	9.60e-03	-1.48e-02	-1.26e-02	5.90e-03	-4.51e-02	1.003
## 2802	9.37e-04	-4.77e-03	-2.06e-02	-4.79e-02	-5.20e-03	-8.01e-02	0.993
## 2803	3.72e-02	-5.63e-02	-2.88e-02	-5.30e-02	3.31e-02	-1.73e-01	1.002
## 2804	1.16e-06	-4.30e-03	-2.46e-02	-2.64e-02	-5.80e-03	-5.05e-02	1.006
## 2805	-1.17e-02	-1.48e-02	1.31e-02	1.92e-03	6.38e-03	-7.64e-02	1.002
## 2806	-1.39e-04	3.06e-04	-1.24e-03	-1.10e-04	-2.74e-04	1.62e-03	1.007
## 2807	-3.09e-03	-4.97e-03	-3.81e-03	-5.07e-03	-6.37e-05	1.26e-02	1.006
## 2808	1.30e-02	-1.85e-02	5.07e-03	-1.88e-02	2.70e-02	-7.80e-02	1.003
## 2809	6.86e-02	-2.10e-02	-3.02e-02	3.58e-02	-8.28e-02	-1.85e-01	0.973
## 2810	-9.95e-04	1.26e-02	-1.25e-02	2.34e-02	-1.33e-02	7.99e-02	0.991
## 2811	1.94e-02	4.35e-02	-4.25e-02	-6.32e-02	-3.76e-02	-1.90e-01	0.988
## 2812	-4.23e-04	-1.80e-02	1.18e-02	1.30e-02	-5.01e-03	7.02e-02	1.000
## 2813	4.26e-03	-3.93e-03	1.60e-03	9.22e-04	3.16e-03	-1.75e-02	1.006
## 2814	-1.44e-02	6.21e-03	2.07e-02	6.06e-03	-1.74e-02	5.83e-02	1.008
## 2815	-2.52e-03	-3.24e-03	1.00e-02	1.70e-02	-7.28e-04	2.92e-02	1.003
## 2816	4.55e-04	-6.09e-03	1.91e-03	2.93e-04	-2.32e-03	1.17e-02	1.006
## 2817	-4.57e-03	8.28e-04	-7.00e-03	1.19e-03	-3.61e-04	1.68e-02	1.005
## 2818	5.93e-03	8.55e-03	2.40e-03	4.27e-03	5.03e-04	-1.96e-02	1.004
## 2819	-1.99e-03	1.05e-02	-2.12e-02	-3.50e-03	2.08e-02	9.56e-02	0.992
## 2820	5.79e-04	1.85e-03	6.30e-03	-2.62e-04	-5.53e-04	-2.47e-02	1.009
## 2821	-9.72e-03	-2.58e-03	5.37e-03	-9.20e-04	8.27e-03	2.48e-02	1.007
## 2822	-1.08e-02	-5.14e-02	7.04e-02	-2.96e-03	-1.21e-02	-1.16e-01	0.996
## 2823	1.16e-03	8.38e-03	-9.78e-03	-5.24e-03	1.06e-03	-1.84e-02	1.007
## 2824	1.33e-02	2.83e-02	-7.70e-02	-9.84e-03	2.09e-02	-1.27e-01	0.998
## 2825	-1.13e-02	-8.07e-03	-3.95e-02	-2.29e-02	-2.21e-02	8.04e-02	0.999
## 2826	-4.58e-03	-1.09e-03	2.87e-03	2.21e-03	9.03e-04	1.80e-02	1.018
## 2827	6.71e-03	1.38e-02	-1.72e-02	-1.04e-02	-1.20e-02	-4.54e-02	1.007
## 2828	8.56e-04	-4.31e-03	4.15e-03	-1.69e-03	1.14e-03	-1.13e-02	1.006
## 2829	1.49e-04	3.62e-03	-9.52e-03	-4.07e-03	9.49e-03	-2.81e-02	1.005
## 2830	-3.29e-03	8.19e-03	6.94e-04	-4.43e-03	-5.47e-03	-2.63e-02	1.004
## 2831	6.31e-03	1.89e-02	-1.69e-02	-1.94e-02	-1.18e-03	-5.10e-02	0.999
## 2832	-4.30e-04	-5.15e-03	2.52e-03	1.75e-04	1.08e-03	8.49e-03	1.005
## 2833	2.94e-04	3.26e-04	2.20e-04	1.96e-04	3.11e-04	8.78e-04	1.005
## 2834	3.42e-03	-1.05e-02	1.40e-02	-5.83e-03	-4.46e-02	7.05e-02	1.008
## 2835	4.41e-03	-6.44e-02	-2.36e-02	-3.05e-02	5.34e-02	-1.34e-01	0.998
## 2836	2.74e-03	-7.03e-03	-3.21e-03	-1.91e-03	-3.43e-03	-2.24e-02	1.003
## 2837	3.48e-04	3.05e-08	3.05e-04	2.47e-04	-5.35e-04	-2.25e-03	1.005
## 2838	-1.01e-04	-2.50e-03	7.03e-03	8.62e-04	-2.58e-02	3.45e-02	1.007
## 2839	2.95e-04	-9.37e-03	2.31e-02	7.93e-03	5.29e-03	4.08e-02	1.006
## 2840	4.60e-04	7.00e-03	-1.48e-02	7.25e-03	1.67e-02	3.80e-02	1.003
## 2841	-1.81e-03	1.54e-03	-8.42e-03	-9.22e-04	-2.13e-02	3.21e-02	1.007
## 2842	8.18e-03	2.89e-02	-2.26e-02	-2.54e-02	-4.33e-03	9.75e-02	0.985
## 2843	-1.67e-03	6.53e-03	-1.52e-02	-3.53e-03	6.37e-03	2.66e-02	1.007
## 2844	2.14e-03	8.23e-03	-8.44e-03	3.85e-03	-3.01e-02	4.52e-02	1.007
## 2845	-2.09e-03	3.95e-02	-1.39e-02	1.62e-03	-5.40e-02	9.42e-02	1.002
## 2846	8.68e-04	-4.13e-03	1.20e-02	6.06e-03	-1.45e-02	2.81e-02	1.008
## 2847	3.42e-04	-1.93e-03	4.47e-03	5.36e-04	1.79e-03	8.01e-03	1.005
## 2848	1.23e-03	-2.00e-03	2.65e-03	-4.89e-04	2.05e-03	5.61e-03	1.005
## 2849	6.91e-04	-1.61e-03	-2.24e-03	4.62e-03	-5.91e-03	-2.10e-02	1.005
## 2850	8.01e-05	2.45e-04	-2.53e-04	-1.00e-03	6.30e-04	-4.03e-03	1.005
## 2851	7.96e-03	-1.41e-02	-1.13e-03	2.65e-03	-1.25e-02	-4.48e-02	0.999
## 2852	-4.07e-04	-2.05e-03	3.52e-03	1.73e-03	-3.37e-04	5.00e-03	1.007

## 2853	3.85e-04	-1.05e-02	5.69e-03	4.76e-03	1.04e-02	3.27e-02	1.004
## 2854	2.13e-04	-5.39e-04	-2.19e-04	1.84e-03	9.72e-04	5.03e-03	1.005
## 2855	1.91e-04	-8.67e-03	-1.98e-03	1.25e-03	1.31e-02	4.13e-02	1.000
## 2856	4.12e-04	-3.77e-03	4.26e-03	3.31e-03	1.64e-03	1.04e-02	1.005
## 2857	4.68e-03	2.41e-03	-3.41e-04	4.03e-03	-6.73e-03	2.58e-02	1.006
## 2858	-6.83e-03	4.71e-02	-3.02e-02	-1.86e-02	7.65e-03	1.05e-01	0.983
## 2859	1.10e-04	-1.12e-03	-7.42e-04	-4.05e-03	3.72e-04	-9.74e-03	1.005
## 2860	2.17e-04	8.20e-04	-7.16e-04	6.14e-03	8.98e-03	3.71e-02	1.010
## 2861	7.74e-04	-6.04e-03	-2.15e-03	1.12e-02	9.50e-04	3.56e-02	1.004
## 2862	3.90e-03	2.36e-03	1.34e-03	8.64e-03	-2.03e-03	1.76e-02	1.004
## 2863	-8.58e-04	-3.35e-05	-1.08e-03	-1.59e-03	-5.03e-04	-2.57e-03	1.005
## 2864	-7.89e-04	1.70e-02	1.53e-02	-4.32e-02	4.58e-02	-1.10e-01	1.006
## 2865	-3.37e-05	-3.51e-04	3.44e-04	5.16e-05	4.03e-05	-6.12e-04	1.006
## 2866	2.52e-05	-3.54e-04	6.46e-04	-7.07e-04	-1.29e-03	-3.55e-03	1.005
## 2867	-2.19e-03	4.70e-03	-1.13e-02	2.09e-03	-1.49e-03	2.11e-02	1.005
## 2868	-3.65e-05	8.10e-04	2.18e-04	4.24e-03	-3.17e-04	8.42e-03	1.005
## 2869	1.85e-03	-9.26e-03	1.55e-03	-6.51e-03	-5.51e-03	-2.42e-02	1.004
## 2870	1.09e-02	3.52e-03	-5.22e-04	2.61e-03	-1.30e-03	1.32e-02	1.011
## 2871	6.97e-05	-3.91e-03	-2.28e-03	2.48e-03	4.16e-04	1.56e-02	1.005
## 2872	8.23e-04	3.65e-03	2.46e-04	2.14e-03	-1.62e-03	6.43e-03	1.009
## 2873	-1.11e-03	3.37e-03	1.80e-04	-2.03e-03	-1.72e-03	-5.96e-03	1.006
## 2874	5.46e-04	-4.81e-03	-1.44e-04	-8.19e-04	1.83e-03	-1.21e-02	1.007
## 2875	-1.75e-04	3.89e-04	-1.29e-04	-2.21e-04	1.76e-05	-1.25e-03	1.006
## 2876	3.64e-03	9.35e-04	-3.50e-02	-2.52e-02	-8.82e-03	-4.61e-02	1.005
## 2877	9.59e-04	-7.09e-03	-1.68e-03	2.88e-03	-4.84e-03	2.68e-02	1.002
## 2878	-2.66e-03	1.77e-02	-3.26e-02	-1.85e-02	3.54e-03	-4.54e-02	1.004
## 2879	1.37e-03	-5.28e-04	-3.95e-04	5.28e-03	-9.72e-04	1.37e-02	1.005
## 2880	1.14e-03	1.53e-03	7.71e-03	-7.16e-03	-5.27e-03	-2.24e-02	1.010
## 2881	3.59e-03	1.47e-02	-1.17e-03	6.73e-03	-9.95e-03	3.64e-02	1.005
## 2882	-9.03e-04	2.74e-04	-3.86e-03	2.21e-03	-2.15e-04	8.86e-03	1.007
## 2883	-3.40e-04	2.24e-03	4.41e-05	-1.33e-03	-8.42e-04	-6.82e-03	1.006
## 2884	1.85e-05	-9.51e-06	-4.51e-04	3.58e-04	-4.03e-05	2.26e-03	1.006
## 2885	-6.45e-04	-4.60e-03	-5.11e-03	2.79e-03	-1.03e-03	1.73e-02	1.005
## 2886	1.42e-03	-9.77e-03	5.69e-03	3.22e-03	8.75e-03	3.29e-02	1.003
## 2887	-6.68e-03	5.23e-03	-9.14e-03	-1.57e-02	3.12e-03	-3.03e-02	1.003
## 2888	8.25e-04	-5.08e-03	5.89e-03	4.01e-03	9.21e-04	1.23e-02	1.006
## 2889	3.77e-03	1.36e-02	-8.79e-03	-2.83e-03	-2.17e-02	-4.45e-02	1.000
## 2890	-7.79e-04	-1.81e-03	1.99e-02	2.39e-02	-6.72e-03	4.11e-02	1.002
## 2891	1.72e-03	6.13e-03	-3.86e-05	1.12e-02	-3.18e-03	2.11e-02	1.004
## 2892	1.85e-03	-1.71e-02	8.68e-03	-6.20e-03	9.47e-03	-3.24e-02	1.006
## 2893	-6.80e-04	8.65e-03	1.11e-02	3.29e-02	1.08e-02	4.87e-02	1.001
## 2894	-4.07e-04	-1.75e-03	-2.45e-04	1.69e-03	5.18e-04	5.40e-03	1.005
## 2895	-9.33e-04	2.97e-04	6.24e-04	-2.93e-04	-3.92e-04	3.18e-03	1.005
## 2896	5.75e-04	-3.51e-04	-7.67e-04	1.95e-03	-5.94e-04	4.97e-03	1.005
## 2897	-1.84e-04	-6.28e-03	-2.00e-03	5.54e-03	2.36e-03	1.85e-02	1.005
## 2898	5.31e-04	8.03e-03	-2.99e-03	-7.63e-03	-5.37e-03	-2.33e-02	1.003
## 2899	-7.06e-04	-1.43e-02	2.26e-03	-9.25e-03	6.67e-03	-3.13e-02	1.005
## 2900	2.41e-03	3.50e-03	-1.11e-02	-5.06e-03	-1.97e-03	-1.53e-02	1.005
## 2901	-8.79e-04	-8.37e-04	-7.50e-03	-1.02e-02	-4.35e-03	-1.46e-02	1.009
## 2902	-2.88e-03	2.08e-02	-2.92e-02	-2.66e-02	6.26e-02	-1.04e-01	1.003
## 2903	2.73e-03	6.27e-03	-2.23e-02	2.94e-03	-1.01e-02	6.91e-02	1.000
## 2904	1.92e-04	9.67e-04	-1.66e-03	-2.42e-03	-1.93e-04	-3.99e-03	1.005
## 2905	9.78e-04	6.36e-03	-2.68e-03	-7.40e-04	-8.59e-04	-1.59e-02	1.004
## 2906	-1.50e-03	2.99e-03	5.53e-05	-2.21e-03	-7.48e-04	-5.48e-03	1.005

## 2907	-8.28e-04	-5.64e-04	-2.35e-04	2.72e-03	2.07e-03	6.50e-03	1.006
## 2908	-1.10e-04	2.05e-03	1.50e-03	-3.04e-03	-6.25e-03	-1.79e-02	1.006
## 2909	-1.46e-04	1.82e-03	1.51e-04	-1.28e-03	-2.22e-04	-3.78e-03	1.006
## 2910	-1.78e-02	-1.10e-02	-4.35e-02	-6.74e-02	1.72e-03	9.02e-02	0.992
## 2911	6.06e-04	1.11e-02	-1.25e-02	-1.00e-02	1.36e-03	-2.72e-02	1.005
## 2912	1.43e-03	-5.85e-03	-5.08e-04	-5.21e-03	4.52e-04	-1.40e-02	1.004
## 2913	-2.22e-06	-8.00e-03	9.34e-03	-3.41e-03	2.41e-05	-3.12e-02	1.002
## 2914	5.12e-04	-1.33e-02	4.03e-03	1.61e-02	2.85e-03	3.48e-02	1.004
## 2915	-6.92e-04	-5.16e-04	1.40e-03	4.26e-03	-6.37e-03	2.32e-02	1.004
## 2916	5.84e-03	5.97e-03	-6.75e-03	1.98e-03	8.94e-03	2.95e-02	1.003
## 2917	2.83e-05	-2.92e-04	2.95e-04	2.64e-04	1.59e-04	6.45e-04	1.006
## 2918	1.36e-03	7.79e-03	-1.35e-02	3.80e-03	2.88e-03	2.67e-02	1.004
## 2919	3.65e-03	1.12e-04	-1.05e-02	1.94e-03	-4.11e-04	1.62e-02	1.006
## 2920	-2.28e-03	-2.39e-03	8.48e-03	-2.22e-03	5.45e-03	-3.04e-02	1.003
## 2921	-7.75e-04	2.83e-03	-3.26e-03	3.75e-04	1.01e-03	6.83e-03	1.005
## 2922	2.50e-03	1.35e-02	-2.45e-02	8.47e-03	7.59e-03	8.03e-02	0.988
## 2923	7.11e-03	-9.93e-03	5.60e-03	7.28e-03	-1.79e-03	2.18e-02	1.004
## 2924	9.80e-03	1.52e-02	-6.38e-04	6.99e-03	-5.83e-03	3.13e-02	1.007
## 2925	-2.47e-03	1.47e-03	-4.85e-03	7.77e-03	6.43e-03	3.13e-02	1.000
## 2926	3.46e-03	-5.48e-03	4.67e-03	7.21e-03	2.94e-03	1.61e-02	1.005
## 2927	2.48e-04	-1.94e-03	3.72e-04	-1.41e-03	1.61e-03	-5.14e-03	1.006
## 2928	2.25e-02	-3.17e-03	-2.07e-02	3.83e-02	-9.94e-04	-7.43e-02	1.003
## 2929	2.26e-04	6.23e-04	-1.38e-04	6.18e-05	-5.74e-05	-1.29e-03	1.005
## 2930	4.14e-03	-1.19e-02	2.28e-02	6.02e-03	-4.15e-03	3.56e-02	1.004
## 2931	-1.89e-04	-4.71e-04	4.08e-04	-9.31e-05	-6.47e-05	7.68e-04	1.007
## 2932	1.81e-03	3.84e-03	-4.81e-03	3.30e-03	-1.02e-03	-1.19e-02	1.006
## 2933	-1.72e-02	1.32e-02	1.84e-02	1.55e-02	-1.89e-02	6.27e-02	0.999
## 2934	-6.61e-03	-2.48e-03	-6.70e-03	-1.34e-02	2.73e-03	3.61e-02	1.001
## 2935	3.50e-03	2.84e-03	-9.35e-03	-2.57e-04	1.64e-03	-1.61e-02	1.006
## 2936	3.12e-02	-1.34e-02	2.55e-02	8.80e-03	-5.44e-04	4.96e-02	1.003
## 2937	-3.55e-03	-1.81e-02	6.85e-03	-7.10e-03	-5.93e-03	2.78e-02	1.005
## 2938	2.46e-04	-5.97e-04	-2.87e-04	4.73e-05	-1.71e-04	-1.56e-03	1.005
## 2939	1.17e-02	-1.06e-02	1.96e-02	4.41e-03	-3.87e-03	3.71e-02	1.002
## 2940	-1.12e-04	-2.73e-04	7.39e-04	6.08e-04	6.17e-04	1.75e-03	1.005
## 2941	-1.01e-03	4.06e-04	9.40e-04	-1.47e-03	-1.02e-04	3.32e-03	1.007
## 2942	-3.63e-03	1.34e-02	-2.62e-03	1.13e-02	-2.48e-03	4.04e-02	1.000
## 2943	-4.58e-03	-9.74e-03	1.23e-02	8.36e-04	-1.05e-03	2.10e-02	1.004
## 2944	-2.57e-03	-6.43e-03	4.56e-03	-4.27e-03	-3.12e-03	1.44e-02	1.006
## 2945	5.06e-04	1.62e-03	3.85e-03	1.78e-04	-2.23e-03	-8.02e-03	1.007
## 2946	8.13e-03	8.12e-03	-6.33e-04	1.37e-02	-1.24e-02	4.16e-02	1.001
## 2947	-5.78e-04	3.60e-03	-5.94e-03	6.50e-03	8.58e-04	-1.59e-02	1.005
## 2948	-1.04e-02	-4.98e-02	4.39e-02	-1.47e-02	8.93e-03	9.61e-02	0.998
## 2949	-2.48e-04	-1.50e-03	3.09e-05	-3.21e-04	-5.84e-04	3.24e-03	1.005
## 2950	3.60e-04	-1.31e-04	2.46e-03	-1.07e-03	7.60e-04	-5.37e-03	1.006
## 2951	1.24e-03	3.41e-03	1.72e-03	1.87e-03	1.12e-03	-6.79e-03	1.005
## 2952	3.50e-03	7.11e-03	1.27e-02	-2.50e-03	-2.41e-03	-3.63e-02	1.000
## 2953	6.54e-04	9.00e-03	-7.71e-04	-1.49e-03	1.09e-03	-2.63e-02	1.003
## 2954	-1.42e-02	-1.79e-03	-7.44e-03	-1.15e-02	1.33e-03	-2.48e-02	1.005
## 2955	1.19e-04	1.51e-04	5.06e-04	4.29e-04	-3.46e-05	1.55e-03	1.006
## 2956	1.75e-04	4.48e-04	6.75e-04	1.74e-03	1.36e-04	2.88e-03	1.006
## 2957	9.06e-04	-8.87e-03	1.58e-02	-2.79e-03	1.06e-02	-3.49e-02	1.005
## 2958	2.28e-04	1.63e-03	-5.67e-03	1.60e-03	9.76e-05	9.72e-03	1.005
## 2959	-1.47e-03	-7.11e-04	3.05e-03	1.39e-03	3.57e-03	-1.38e-02	1.004
## 2960	3.32e-05	9.62e-05	-1.08e-05	3.15e-04	-2.44e-04	1.17e-03	1.006

## 2961	-8.57e-04	-1.15e-03	1.75e-03	-2.18e-03	7.25e-04	-8.59e-03	1.005
## 2962	-2.31e-04	-1.54e-03	2.75e-04	7.15e-04	-8.15e-04	5.65e-03	1.005
## 2963	9.96e-05	-3.46e-04	1.16e-03	3.27e-03	-1.44e-04	8.32e-03	1.005
## 2964	9.83e-04	1.49e-03	4.54e-04	-2.13e-03	8.16e-04	-1.11e-02	1.005
## 2965	3.45e-03	1.05e-02	1.64e-02	-1.53e-02	8.38e-03	-5.31e-02	1.000
## 2966	-4.68e-03	-1.39e-02	1.41e-02	-1.70e-04	5.55e-03	-6.56e-02	0.999
## 2967	1.48e-03	-8.97e-04	-1.02e-02	-8.14e-03	4.12e-03	-1.88e-02	1.006
## 2968	5.31e-05	-1.95e-04	1.43e-05	-1.17e-04	-2.30e-04	2.43e-03	1.006
## 2969	-1.09e-03	-1.72e-03	4.19e-03	4.99e-03	-1.45e-03	1.01e-02	1.005
## 2970	-1.31e-03	2.46e-04	-1.10e-02	-1.89e-03	2.80e-03	2.26e-02	1.008
## 2971	1.84e-03	1.19e-02	6.28e-03	-5.25e-03	5.75e-04	-3.58e-02	1.008
## 2972	7.45e-05	-4.18e-03	5.08e-03	-1.02e-02	1.06e-03	-2.01e-02	1.004
## 2973	-3.21e-04	-3.75e-04	2.06e-03	-1.34e-03	-2.46e-04	-4.79e-03	1.005
## 2974	-3.98e-03	-3.74e-03	2.76e-02	-8.40e-03	8.59e-03	-6.54e-02	0.999
## 2975	-2.03e-03	8.73e-03	-7.84e-03	-8.90e-03	-7.09e-03	-2.67e-02	1.003
## 2976	-3.60e-04	-2.54e-03	-1.21e-03	5.46e-04	-1.73e-03	6.05e-03	1.006
## 2977	-1.31e-02	-9.17e-03	-8.62e-03	-1.78e-02	4.88e-03	-3.97e-02	1.000
## 2978	-2.24e-03	-2.74e-03	-9.53e-04	8.88e-03	5.61e-03	2.32e-02	1.003
## 2979	4.69e-03	-2.01e-02	3.87e-03	-2.34e-04	1.05e-02	-4.16e-02	1.004
## 2980	-3.27e-03	7.30e-03	-8.23e-03	8.40e-03	-6.39e-03	2.71e-02	1.004
## 2981	1.44e-04	-2.98e-03	-7.13e-03	8.19e-03	-1.57e-03	2.54e-02	1.004
## 2982	-7.10e-04	9.98e-03	-9.85e-03	9.42e-03	-2.67e-03	2.47e-02	1.005
## 2983	2.38e-02	3.57e-03	8.91e-03	1.66e-02	-1.08e-03	3.17e-02	1.005
## 2984	-4.90e-03	2.18e-02	-2.60e-03	3.47e-03	-6.07e-03	4.05e-02	1.002
## 2985	1.39e-02	-2.65e-03	-2.57e-02	-1.53e-02	4.55e-03	-6.72e-02	0.992
## 2986	-1.82e-03	1.23e-02	-3.63e-03	-9.89e-03	-3.28e-03	-3.16e-02	1.003
## 2987	8.43e-04	-2.27e-02	-7.38e-03	-2.78e-02	-7.81e-03	5.16e-02	0.999
## 2988	-2.19e-02	3.77e-03	-2.88e-02	-6.31e-02	-3.42e-02	-1.01e-01	0.989
## 2989	-7.99e-04	-3.70e-04	-8.03e-04	-1.92e-03	8.17e-04	-4.82e-03	1.005
## 2990	4.14e-03	5.60e-03	-6.86e-03	3.65e-03	-4.02e-03	2.30e-02	1.004
## 2991	-1.59e-03	2.11e-03	-6.91e-03	-3.55e-03	1.98e-03	-1.08e-02	1.006
## 2992	1.67e-03	4.97e-03	-1.49e-02	-6.89e-03	-2.03e-03	-2.44e-02	1.004
## 2993	1.36e-03	6.04e-04	8.90e-03	-1.59e-03	1.65e-03	-1.67e-02	1.005
## 2994	-4.30e-04	-2.58e-03	-4.03e-04	-6.68e-03	6.19e-03	-1.97e-02	1.005
## 2995	-3.95e-03	2.39e-02	1.50e-03	-1.31e-02	-1.41e-03	-5.25e-02	0.999
## 2996	-1.79e-03	-9.40e-03	4.77e-03	1.01e-02	-2.74e-03	2.88e-02	1.004
## 2997	9.81e-05	-3.63e-03	4.83e-04	-4.23e-04	-9.62e-04	6.39e-03	1.005
## 2998	-2.00e-03	-2.56e-03	-8.41e-03	3.43e-03	-1.12e-03	1.65e-02	1.006
## 2999	6.89e-05	-1.48e-04	7.80e-05	-2.15e-05	-9.69e-05	-3.50e-04	1.005
## 3000	3.36e-04	2.95e-05	-3.74e-03	2.82e-03	-1.22e-03	1.27e-02	1.005
## 3001	-6.41e-04	-4.09e-03	5.74e-04	1.53e-03	-1.45e-03	1.02e-02	1.005
## 3002	-6.70e-03	5.27e-03	1.74e-02	1.31e-04	7.18e-03	-4.51e-02	1.001
## 3003	-2.43e-03	-8.68e-03	6.10e-03	-1.57e-03	3.04e-03	-1.48e-02	1.009
## 3004	7.51e-03	4.56e-03	1.18e-02	-1.74e-02	-3.86e-03	-5.51e-02	1.011
## 3005	-1.65e-03	-6.87e-03	-4.14e-03	-7.76e-03	-7.29e-04	-1.88e-02	1.004
## 3006	2.71e-04	3.11e-04	7.83e-04	-1.98e-04	-2.12e-05	3.95e-03	1.005
## 3007	-1.15e-03	-5.41e-03	1.20e-03	9.78e-04	-6.19e-04	7.55e-03	1.006
## 3008	-1.42e-03	6.43e-03	-3.83e-03	-1.78e-03	1.34e-03	9.16e-03	1.005
## 3009	-4.84e-03	1.60e-03	2.37e-03	-9.81e-04	-1.60e-03	-1.14e-02	1.005
## 3010	-2.56e-04	9.67e-04	-2.12e-03	7.31e-04	-2.35e-03	6.79e-03	1.007
## 3011	7.16e-04	5.05e-03	-8.65e-03	7.60e-04	6.18e-03	-2.73e-02	1.003
## 3012	1.03e-02	1.53e-02	-2.53e-02	-5.75e-03	-1.03e-02	-4.92e-02	1.002
## 3013	-1.72e-04	1.63e-02	6.84e-03	-3.21e-03	-1.76e-03	-2.97e-02	1.004
## 3014	9.11e-06	1.37e-03	-4.62e-03	1.90e-03	-8.89e-04	7.54e-03	1.006



```

## 3015  1.61e-03 -6.96e-03  2.28e-02 -7.91e-04  4.12e-03 -2.95e-02  1.007
## 3016  7.64e-04 -1.25e-03  5.82e-04  4.07e-04 -1.93e-05  2.46e-03  1.006
## 3017 -9.18e-04  6.32e-03  6.25e-03 -1.18e-02  5.77e-03 -5.89e-02  0.993
## 3018 -7.59e-03  9.69e-03 -5.85e-03 -7.91e-03  1.50e-03 -2.08e-02  1.004
## 3019 -1.81e-03 -7.16e-03 -1.53e-02 -8.82e-05  9.66e-03  3.27e-02  1.002
## 3020 -5.85e-04  7.91e-04 -1.39e-03 -7.79e-04  2.10e-04  2.31e-03  1.005
## 3021 -2.43e-03 -3.00e-03 -9.84e-03 -3.40e-03  1.57e-03  1.57e-02  1.006
## 3022 -4.27e-03  1.75e-02 -9.25e-03  3.30e-03  2.39e-03  5.30e-02  0.998
## 3023 -1.95e-04  1.08e-04  4.73e-06 -3.62e-05 -1.24e-04 -4.39e-04  1.005
## 3024  4.53e-03 -3.26e-03  4.03e-03 -2.00e-03 -3.95e-03 -2.15e-02  1.006
## 3025 -2.33e-03  6.65e-04 -1.36e-03  1.10e-03  3.62e-03  1.16e-02  1.005
## 3026 -2.17e-03  2.63e-03 -1.09e-03  1.96e-03 -1.61e-03  9.73e-03  1.005
## 3027 -6.37e-05 -5.23e-04  6.68e-04  2.20e-04  5.23e-05  1.41e-03  1.006
## 3028 -4.18e-03  3.17e-03  1.80e-03 -3.60e-03  7.54e-03  2.54e-02  1.004
## 3029 -8.15e-03  1.03e-03  9.94e-03 -8.59e-04  9.28e-04 -2.67e-02  1.006
## 3030 -2.39e-03  1.13e-02 -7.25e-03 -6.45e-03  3.03e-04 -3.65e-02  1.004
## 3031 -1.36e-03  1.10e-02 -1.08e-02  4.74e-03 -1.51e-03  2.29e-02  1.006
## 3032  1.25e-03 -8.98e-03 -3.14e-03 -1.82e-03 -3.77e-04  1.27e-02  1.005
## 3033 -1.84e-03 -1.02e-05 -2.21e-03 -1.09e-03 -1.38e-03  9.56e-03  1.004
## 3034 -5.69e-03  7.49e-05  3.13e-02 -8.66e-03 -3.32e-03  5.79e-02  0.996
## 3035 -2.77e-04 -2.68e-03 -1.67e-03  1.58e-03  9.96e-04  1.29e-02  1.004
## 3036  5.53e-03 -8.26e-02 -8.51e-03 -3.27e-02  7.84e-03  1.35e-01  0.995
## 3037 -2.62e-04 -9.44e-04  4.52e-03  5.21e-03 -1.48e-03  1.14e-02  1.005
## 3038  6.43e-03 -9.72e-03  1.47e-02  7.23e-03 -2.04e-03 -2.31e-02  1.004
## 3039  8.90e-03  1.36e-02  2.21e-02  1.68e-04 -4.73e-03 -5.34e-02  1.007
## 3040  2.27e-02  9.90e-03 -4.82e-02 -5.00e-02 -1.02e-02  1.13e-01  0.988
## 3041  3.22e-03 -3.24e-03  2.74e-02  2.45e-02  2.41e-02  7.97e-02  0.997
## 3042  3.96e-03  3.00e-02  2.06e-02  4.58e-03  7.85e-03 -5.84e-02  1.006
## 3043 -5.69e-03  9.85e-03 -6.15e-03 -2.08e-02  1.79e-03 -3.63e-02  1.002
## 3044 -5.42e-02 -1.90e-03 -2.37e-02 -1.61e-02 -6.49e-03 -7.89e-02  1.007
## 3045 -1.07e-02  3.20e-03 -2.54e-02  1.74e-02  2.06e-03 -6.68e-02  1.001
## 3046  7.10e-04  2.92e-03 -1.99e-04  3.07e-03 -2.30e-05  6.07e-03  1.005
## 3047 -2.87e-02  3.41e-02  3.23e-02  4.12e-02 -4.57e-03  1.27e-01  0.995
##      cook.d      hat inf
## 1  5.14e-05  0.001664
## 2  1.20e-06  0.002993
## 3  1.46e-04  0.001925
## 4  6.38e-05  0.001953
## 5  2.53e-05  0.002433
## 6  2.39e-04  0.002931
## 7  1.00e-04  0.003337
## 8  7.90e-05  0.003072
## 9  2.75e-05  0.003392
## 10 2.35e-05  0.002407
## 11 1.18e-03  0.003906
## 12 5.43e-05  0.001594
## 13 1.35e-04  0.001657
## 14 4.62e-05  0.004463
## 15 7.29e-07  0.001253
## 16 8.74e-06  0.001698
## 17 3.05e-05  0.001989
## 18 4.43e-04  0.002894
## 19 6.53e-06  0.001189
## 20 6.78e-05  0.001831

```

## 21	1.44e-03	0.012634	*
## 22	1.14e-05	0.004797	
## 23	2.18e-05	0.002389	
## 24	1.69e-04	0.001475	
## 25	6.19e-04	0.002838	
## 26	4.73e-06	0.007170	
## 27	1.01e-05	0.001526	
## 28	8.08e-07	0.005963	
## 29	1.90e-03	0.010779	
## 30	7.25e-04	0.008056	
## 31	2.86e-03	0.009971	
## 32	1.68e-04	0.001705	
## 33	2.65e-04	0.005818	
## 34	4.98e-04	0.002505	
## 35	1.72e-06	0.002167	
## 36	1.61e-04	0.007868	
## 37	6.89e-07	0.001623	
## 38	2.84e-04	0.003848	
## 39	6.02e-05	0.001373	
## 40	1.89e-05	0.001215	
## 41	1.08e-04	0.001757	
## 42	4.77e-05	0.001821	
## 43	4.70e-05	0.002709	
## 44	1.48e-04	0.005029	
## 45	4.95e-04	0.002263	
## 46	1.60e-04	0.007130	
## 47	1.24e-06	0.001724	
## 48	4.95e-06	0.000820	
## 49	1.05e-04	0.002506	
## 50	1.25e-04	0.002013	
## 51	7.59e-05	0.002800	
## 52	5.52e-04	0.005877	
## 53	4.70e-04	0.006008	
## 54	4.29e-05	0.001622	
## 55	8.42e-04	0.005543	
## 56	5.36e-05	0.001725	
## 57	1.05e-06	0.002709	
## 58	3.61e-04	0.002396	
## 59	2.99e-04	0.001613	
## 60	1.04e-05	0.005307	
## 61	2.84e-05	0.001266	
## 62	1.27e-05	0.001498	
## 63	2.67e-05	0.000733	
## 64	3.03e-05	0.001937	
## 65	9.67e-05	0.002122	
## 66	1.96e-05	0.004881	
## 67	2.13e-04	0.005714	
## 68	1.23e-07	0.001507	
## 69	4.37e-04	0.002564	
## 70	2.97e-05	0.001983	
## 71	1.09e-05	0.001428	
## 72	9.04e-07	0.001852	
## 73	1.81e-03	0.005731	
## 74	1.46e-06	0.002654	

## 75	3.19e-08	0.001825	
## 76	6.43e-06	0.001249	
## 77	1.36e-03	0.004112	
## 78	1.45e-04	0.002722	
## 79	6.98e-04	0.001990	
## 80	1.69e-07	0.001211	
## 81	2.75e-04	0.003695	
## 82	5.70e-05	0.001294	
## 83	4.90e-05	0.001846	
## 84	3.62e-04	0.002959	
## 85	6.45e-06	0.002779	
## 86	5.19e-05	0.000976	
## 87	7.34e-04	0.004065	
## 88	5.22e-09	0.001661	
## 89	6.06e-06	0.000995	
## 90	5.96e-06	0.003206	
## 91	3.23e-05	0.002074	
## 92	4.23e-05	0.002215	
## 93	1.26e-03	0.003721	
## 94	9.69e-08	0.002666	
## 95	5.63e-06	0.002524	
## 96	1.39e-03	0.005761	
## 97	2.67e-05	0.001121	
## 98	2.38e-04	0.001552	
## 99	3.49e-06	0.002395	
## 100	3.41e-07	0.001674	
## 101	2.60e-06	0.003246	
## 102	1.90e-04	0.003802	
## 103	1.24e-03	0.004168	
## 104	1.12e-03	0.008414	
## 105	8.51e-04	0.002937	
## 106	1.21e-05	0.007507	
## 107	4.83e-05	0.002913	
## 108	2.34e-05	0.002972	
## 109	4.70e-05	0.006553	
## 110	1.22e-04	0.001408	
## 111	9.40e-05	0.002193	
## 112	5.24e-04	0.002780	
## 113	8.87e-06	0.005841	
## 114	3.02e-04	0.002501	
## 115	3.09e-04	0.002057	
## 116	1.09e-02	0.008822	*
## 117	3.66e-06	0.002729	
## 118	9.66e-05	0.003984	
## 119	3.63e-03	0.004853	*
## 120	2.15e-03	0.002984	*
## 121	1.29e-04	0.003833	
## 122	7.75e-03	0.007746	*
## 123	6.54e-04	0.004843	
## 124	9.79e-04	0.001133	*
## 125	2.01e-03	0.005757	
## 126	1.43e-05	0.002482	
## 127	9.96e-07	0.002380	
## 128	1.12e-04	0.003081	

```

## 129 1.58e-08 0.001682
## 130 5.91e-05 0.002221
## 131 4.86e-05 0.002253
## 132 1.36e-08 0.001531
## 133 1.13e-05 0.002066
## 134 1.84e-05 0.001510
## 135 3.90e-06 0.001478
## 136 5.19e-06 0.002218
## 137 1.19e-06 0.002379
## 138 3.17e-05 0.002059
## 139 5.11e-06 0.004443
## 140 1.04e-05 0.012089 *
## 141 3.05e-05 0.003432
## 142 3.59e-07 0.003980
## 143 6.54e-06 0.003096
## 144 6.22e-06 0.004113
## 145 5.98e-05 0.005702
## 146 6.99e-05 0.003219
## 147 7.33e-05 0.012775 *
## 148 2.83e-04 0.003230
## 149 1.01e-04 0.005029
## 150 5.48e-04 0.026607 *
## 151 2.92e-05 0.003192
## 152 5.29e-05 0.005788
## 153 3.89e-05 0.001691
## 154 2.69e-05 0.004376
## 155 8.58e-06 0.001857
## 156 6.45e-05 0.013355 *
## 157 2.82e-05 0.003006
## 158 2.12e-05 0.006022
## 159 8.21e-06 0.002205
## 160 1.30e-04 0.005818
## 161 1.09e-04 0.015644 *
## 162 2.03e-05 0.005701
## 163 1.27e-03 0.006878
## 164 5.33e-04 0.005300
## 165 1.28e-06 0.008818 *
## 166 1.16e-02 0.015144 *
## 167 4.94e-04 0.005828
## 168 3.05e-05 0.002208
## 169 1.11e-06 0.004737
## 170 9.93e-04 0.010582
## 171 3.16e-04 0.006657
## 172 4.97e-05 0.002804
## 173 1.01e-03 0.005074
## 174 5.98e-04 0.003827
## 175 3.64e-04 0.005223
## 176 4.75e-03 0.009677 *
## 177 5.27e-04 0.046922 *
## 178 2.82e-05 0.003144
## 179 1.78e-05 0.007036
## 180 3.13e-05 0.013092 *
## 181 9.04e-04 0.012872 *
## 182 1.90e-04 0.003308

```

## 183	4.56e-04	0.003609	
## 184	5.09e-03	0.047187	*
## 185	6.47e-04	0.004367	
## 186	3.35e-06	0.007415	
## 187	6.49e-04	0.007423	
## 188	3.72e-04	0.012340	*
## 189	3.41e-03	0.005493	*
## 190	8.03e-04	0.009203	
## 191	2.78e-05	0.009665	*
## 192	9.88e-09	0.003470	
## 193	1.58e-05	0.002573	
## 194	6.77e-04	0.047133	*
## 195	1.43e-04	0.002352	
## 196	1.96e-04	0.001389	
## 197	1.29e-04	0.001722	
## 198	3.55e-04	0.002753	
## 199	1.75e-05	0.002132	
## 200	4.34e-05	0.001303	
## 201	6.24e-05	0.003727	
## 202	2.09e-03	0.010706	
## 203	6.68e-04	0.003485	
## 204	1.08e-05	0.002294	
## 205	1.31e-04	0.002678	
## 206	3.08e-04	0.003986	
## 207	9.10e-05	0.003758	
## 208	2.40e-04	0.005025	
## 209	3.72e-03	0.006386	*
## 210	5.01e-04	0.015223	*
## 211	7.03e-05	0.002030	
## 212	1.78e-04	0.003372	
## 213	9.60e-06	0.001518	
## 214	1.36e-04	0.004421	
## 215	5.99e-04	0.003478	
## 216	8.48e-04	0.006438	
## 217	6.46e-05	0.010102	*
## 218	1.04e-07	0.003256	
## 219	9.90e-04	0.003698	
## 220	3.73e-04	0.004104	
## 221	2.80e-04	0.006297	
## 222	2.19e-05	0.003706	
## 223	1.85e-05	0.001665	
## 224	9.26e-05	0.001102	
## 225	2.34e-04	0.005640	
## 226	4.55e-05	0.001602	
## 227	5.04e-06	0.004532	
## 228	3.42e-04	0.005661	
## 229	7.60e-05	0.006053	
## 230	1.62e-04	0.005542	
## 231	1.83e-04	0.001559	
## 232	4.67e-05	0.003141	
## 233	1.65e-06	0.002582	
## 234	2.85e-06	0.002086	
## 235	4.04e-05	0.002897	
## 236	3.93e-06	0.000972	

##	237	8.93e-04	0.001953	*
##	238	1.55e-03	0.004700	
##	239	1.17e-05	0.000844	
##	240	3.57e-04	0.002063	
##	241	2.61e-04	0.004176	
##	242	4.65e-05	0.002715	
##	243	5.25e-04	0.005958	
##	244	5.73e-05	0.005818	
##	245	5.35e-05	0.012121	*
##	246	5.08e-04	0.001689	
##	247	2.64e-04	0.001027	
##	248	1.61e-05	0.000986	
##	249	1.26e-05	0.002820	
##	250	1.70e-03	0.003041	*
##	251	1.07e-07	0.001189	
##	252	9.60e-05	0.005319	
##	253	3.19e-05	0.009348	*
##	254	1.14e-02	0.010661	*
##	255	1.63e-03	0.006749	
##	256	1.18e-02	0.017070	*
##	257	1.36e-04	0.003132	
##	258	4.57e-04	0.003549	
##	259	2.58e-05	0.006583	
##	260	4.52e-07	0.007224	
##	261	7.59e-04	0.006328	
##	262	3.18e-04	0.006318	
##	263	7.49e-05	0.004817	
##	264	9.05e-03	0.011863	*
##	265	1.63e-03	0.008221	
##	266	1.47e-05	0.004956	
##	267	8.43e-05	0.003962	
##	268	1.63e-04	0.003658	
##	269	4.13e-06	0.004114	
##	270	9.20e-05	0.010177	*
##	271	1.08e-03	0.014186	*
##	272	3.59e-06	0.002491	
##	273	8.65e-04	0.005296	
##	274	3.83e-05	0.014645	*
##	275	1.23e-04	0.008216	
##	276	6.58e-07	0.004420	
##	277	7.28e-05	0.002834	
##	278	2.10e-04	0.003352	
##	279	3.64e-04	0.003930	
##	280	7.73e-05	0.003145	
##	281	3.19e-05	0.007401	
##	282	1.48e-01	0.041705	*
##	283	1.01e-03	0.005010	
##	284	2.16e-04	0.021174	*
##	285	2.32e-04	0.002554	
##	286	9.27e-06	0.003109	
##	287	9.97e-05	0.001183	
##	288	1.31e-05	0.001967	
##	289	8.93e-05	0.001878	
##	290	2.10e-04	0.003317	

```

## 291 2.28e-06 0.001735
## 292 4.46e-06 0.012476 *
## 293 1.54e-04 0.003811
## 294 4.30e-05 0.012607 *
## 295 5.26e-04 0.005802
## 296 6.46e-04 0.013011 *
## 297 8.18e-05 0.003285
## 298 3.65e-04 0.002190
## 299 5.54e-04 0.003968
## 300 4.84e-05 0.010845 *
## 301 4.80e-06 0.002255
## 302 2.86e-06 0.004710
## 303 8.95e-05 0.003746
## 304 9.21e-07 0.003321
## 305 1.05e-04 0.002199
## 306 9.10e-05 0.003021
## 307 1.36e-04 0.001809
## 308 3.24e-05 0.001294
## 309 6.66e-05 0.002980
## 310 6.89e-06 0.002335
## 311 1.51e-03 0.006914
## 312 3.61e-04 0.001854
## 313 3.85e-05 0.001244
## 314 1.73e-04 0.001823
## 315 1.75e-06 0.005229
## 316 1.30e-05 0.001222
## 317 3.37e-04 0.004439
## 318 2.47e-07 0.002228
## 319 2.15e-04 0.004279
## 320 6.08e-05 0.005510
## 321 5.96e-05 0.008217 *
## 322 2.56e-05 0.001274
## 323 1.80e-05 0.002651
## 324 2.65e-05 0.001499
## 325 5.35e-05 0.001152
## 326 1.29e-03 0.005009
## 327 5.06e-04 0.006326
## 328 1.55e-05 0.002446
## 329 1.20e-04 0.004991
## 330 1.86e-05 0.001337
## 331 1.50e-05 0.002322
## 332 2.83e-06 0.004789
## 333 1.06e-04 0.004593
## 334 6.56e-06 0.001513
## 335 1.58e-04 0.002426
## 336 1.79e-06 0.002176
## 337 5.16e-04 0.003262
## 338 2.75e-05 0.004354
## 339 1.15e-03 0.005462
## 340 4.89e-05 0.001304
## 341 5.58e-05 0.002065
## 342 4.76e-04 0.002743
## 343 4.77e-05 0.002067
## 344 2.54e-04 0.007549

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## 345 2.62e-05 0.002034
## 346 3.16e-04 0.003141
## 347 6.88e-05 0.002399
## 348 1.36e-04 0.002950
## 349 4.04e-06 0.003938
## 350 2.22e-06 0.006793
## 351 1.55e-04 0.002571
## 352 1.86e-04 0.006226
## 353 4.36e-05 0.001021
## 354 1.49e-05 0.003285
## 355 5.20e-06 0.005956
## 356 8.12e-06 0.006191
## 357 2.37e-05 0.001683
## 358 2.82e-06 0.001472
## 359 3.27e-06 0.002392
## 360 2.37e-05 0.002507
## 361 6.18e-04 0.005362
## 362 9.15e-06 0.001690
## 363 6.15e-08 0.001191
## 364 2.68e-05 0.001058
## 365 3.00e-05 0.004473
## 366 7.35e-05 0.003868
## 367 6.73e-06 0.001984
## 368 1.32e-04 0.002901
## 369 1.02e-05 0.001983
## 370 4.89e-05 0.001333
## 371 1.46e-04 0.002259
## 372 1.05e-04 0.001777
## 373 4.53e-05 0.002006
## 374 1.80e-06 0.001623
## 375 9.12e-07 0.003540
## 376 1.39e-04 0.002066
## 377 6.87e-06 0.002071
## 378 2.11e-05 0.002747
## 379 4.22e-05 0.001218
## 380 1.20e-05 0.001311
## 381 4.11e-05 0.001684
## 382 2.93e-06 0.001297
## 383 1.67e-06 0.002089
## 384 5.22e-06 0.003610
## 385 2.78e-04 0.001347
## 386 1.14e-04 0.003253
## 387 4.76e-04 0.007813
## 388 1.17e-05 0.000975
## 389 4.06e-06 0.001897
## 390 2.04e-06 0.001754
## 391 3.43e-05 0.002237
## 392 2.33e-04 0.002689
## 393 2.59e-04 0.006800
## 394 5.68e-04 0.013744 *
## 395 1.43e-05 0.001741
## 396 5.13e-05 0.002149
## 397 1.33e-05 0.002260
## 398 2.88e-05 0.001578

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## 399 3.30e-07 0.003080
## 400 2.02e-05 0.001636
## 401 1.10e-05 0.002622
## 402 2.53e-07 0.001244
## 403 1.81e-06 0.005259
## 404 6.03e-06 0.001057
## 405 7.45e-05 0.002460
## 406 1.12e-06 0.001760
## 407 1.30e-04 0.003246
## 408 6.64e-05 0.001724
## 409 8.80e-06 0.001942
## 410 9.31e-05 0.002834
## 411 3.66e-04 0.003358
## 412 3.01e-04 0.005467
## 413 5.17e-05 0.002429
## 414 8.52e-06 0.003003
## 415 3.85e-04 0.001445
## 416 9.94e-05 0.000845
## 417 2.60e-05 0.002586
## 418 3.78e-05 0.002038
## 419 1.89e-04 0.006683
## 420 2.34e-05 0.005431
## 421 6.93e-07 0.002900
## 422 1.08e-03 0.003400
## 423 3.97e-04 0.003630
## 424 2.88e-05 0.001366
## 425 2.21e-04 0.003360
## 426 2.62e-05 0.001766
## 427 5.98e-05 0.004205
## 428 5.37e-05 0.002429
## 429 4.40e-05 0.001334
## 430 1.01e-05 0.004027
## 431 2.50e-06 0.006105
## 432 9.35e-06 0.001620
## 433 2.95e-06 0.001598
## 434 5.91e-05 0.001623
## 435 1.30e-04 0.004470
## 436 3.69e-04 0.004315
## 437 4.71e-05 0.001677
## 438 6.91e-06 0.001194
## 439 2.23e-05 0.001415
## 440 3.36e-04 0.007562
## 441 3.51e-04 0.003064
## 442 4.16e-04 0.003836
## 443 3.06e-06 0.003227
## 444 1.51e-04 0.005132
## 445 1.07e-05 0.002348
## 446 2.15e-04 0.006943
## 447 1.07e-03 0.005843
## 448 2.20e-03 0.008282
## 449 2.03e-05 0.002791
## 450 2.09e-05 0.004537
## 451 1.16e-04 0.003248
## 452 5.11e-07 0.000855
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## 453 2.99e-04 0.003673
## 454 8.91e-05 0.002964
## 455 4.47e-05 0.002539
## 456 1.36e-03 0.008211
## 457 4.68e-05 0.001492
## 458 7.83e-04 0.002354
## 459 4.23e-06 0.004056
## 460 1.93e-04 0.002908
## 461 4.19e-04 0.004539
## 462 8.44e-04 0.005855
## 463 2.14e-05 0.005039
## 464 1.54e-03 0.005140
## 465 2.74e-04 0.002751
## 466 1.56e-03 0.005354
## 467 3.92e-04 0.004632
## 468 1.99e-05 0.002907
## 469 1.61e-03 0.003639 *
## 470 3.82e-05 0.004809
## 471 2.93e-04 0.005166
## 472 1.61e-03 0.004864
## 473 2.54e-05 0.005973
## 474 2.68e-03 0.007103
## 475 7.34e-05 0.003088
## 476 2.14e-03 0.005970
## 477 7.53e-05 0.001429
## 478 1.16e-03 0.004801
## 479 1.15e-07 0.008782 *
## 480 4.31e-04 0.003372
## 481 2.31e-04 0.002129
## 482 5.97e-06 0.002154
## 483 2.29e-04 0.005051
## 484 1.79e-03 0.004586
## 485 9.74e-07 0.004732
## 486 3.07e-04 0.002535
## 487 1.01e-03 0.004793
## 488 1.30e-05 0.004197
## 489 8.45e-05 0.003790
## 490 3.95e-05 0.004066
## 491 2.44e-04 0.002036
## 492 9.64e-04 0.017782 *
## 493 8.29e-06 0.004594
## 494 2.05e-03 0.006962
## 495 2.57e-03 0.010811
## 496 2.73e-04 0.002629
## 497 4.74e-04 0.004805
## 498 3.74e-07 0.002897
## 499 2.09e-04 0.003755
## 500 1.04e-05 0.002874
## 501 2.45e-06 0.001528
## 502 2.85e-08 0.000621
## 503 5.26e-05 0.000980
## 504 2.48e-05 0.001293
## 505 3.54e-04 0.002142
## 506 1.80e-05 0.002135

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## 507 3.19e-05 0.002167
## 508 1.57e-04 0.001267
## 509 4.62e-04 0.005105
## 510 5.79e-04 0.002070
## 511 4.22e-06 0.001925
## 512 1.51e-03 0.005659
## 513 5.26e-05 0.004827
## 514 1.92e-03 0.004479
## 515 1.28e-03 0.004864
## 516 1.17e-06 0.001941
## 517 1.16e-04 0.001947
## 518 1.21e-03 0.004321
## 519 3.79e-05 0.000723
## 520 3.58e-04 0.003037
## 521 5.14e-05 0.001132
## 522 4.04e-03 0.005562 *
## 523 7.31e-04 0.002315
## 524 2.75e-03 0.004971 *
## 525 3.10e-04 0.007565
## 526 6.21e-04 0.005394
## 527 3.78e-05 0.005389
## 528 9.54e-06 0.002143
## 529 2.65e-04 0.002068
## 530 2.69e-05 0.005300
## 531 3.37e-05 0.001277
## 532 1.19e-06 0.001842
## 533 9.34e-05 0.001574
## 534 1.02e-05 0.004150
## 535 1.04e-04 0.000931
## 536 1.17e-07 0.001078
## 537 1.63e-03 0.003165 *
## 538 1.03e-05 0.001435
## 539 5.53e-06 0.004296
## 540 2.20e-04 0.005226
## 541 5.59e-06 0.005164
## 542 6.94e-06 0.004691
## 543 1.01e-04 0.004345
## 544 7.50e-04 0.005420
## 545 2.42e-04 0.006735
## 546 5.81e-06 0.006119
## 547 1.79e-05 0.000938
## 548 4.57e-04 0.001570
## 549 5.65e-04 0.001720
## 550 1.95e-04 0.001704
## 551 2.67e-04 0.002191
## 552 8.15e-04 0.006077
## 553 2.60e-04 0.001596
## 554 1.48e-03 0.003813
## 555 1.00e-04 0.004383
## 556 1.08e-03 0.006009
## 557 2.23e-04 0.004175
## 558 4.46e-08 0.000859
## 559 1.27e-03 0.004504
## 560 1.08e-04 0.004759

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## 561	2.82e-04	0.001870	
## 562	1.54e-03	0.005756	
## 563	5.49e-05	0.001567	
## 564	7.75e-04	0.001664	*
## 565	2.85e-05	0.004017	
## 566	2.82e-04	0.002056	
## 567	5.52e-05	0.001478	
## 568	3.04e-06	0.002629	
## 569	2.32e-05	0.000809	
## 570	3.71e-04	0.001585	
## 571	2.35e-04	0.005571	
## 572	1.63e-09	0.001367	
## 573	6.64e-04	0.005024	
## 574	8.02e-04	0.005667	
## 575	5.05e-05	0.002538	
## 576	2.15e-03	0.014955	*
## 577	8.22e-05	0.005088	
## 578	1.59e-04	0.005208	
## 579	2.08e-04	0.002253	
## 580	1.33e-04	0.004635	
## 581	6.57e-05	0.003342	
## 582	1.98e-04	0.002474	
## 583	8.44e-06	0.005432	
## 584	8.28e-04	0.003679	
## 585	1.29e-03	0.036442	*
## 586	1.89e-04	0.004993	
## 587	5.45e-05	0.003423	
## 588	7.85e-05	0.003763	
## 589	5.45e-05	0.002913	
## 590	2.46e-04	0.008523	
## 591	1.99e-06	0.010939	*
## 592	3.48e-07	0.002583	
## 593	1.98e-04	0.003138	
## 594	2.30e-04	0.015100	*
## 595	7.43e-05	0.002772	
## 596	8.00e-06	0.003065	
## 597	3.00e-03	0.012498	*
## 598	5.58e-04	0.003493	
## 599	2.41e-04	0.005412	
## 600	5.33e-04	0.002589	
## 601	1.07e-05	0.001309	
## 602	6.31e-04	0.003014	
## 603	2.91e-04	0.004820	
## 604	1.04e-03	0.009311	
## 605	4.50e-04	0.004513	
## 606	3.97e-04	0.007954	
## 607	9.22e-04	0.007160	
## 608	7.21e-05	0.003327	
## 609	6.09e-04	0.007164	
## 610	5.95e-04	0.002135	
## 611	4.77e-04	0.003429	
## 612	1.34e-05	0.001626	
## 613	6.10e-04	0.004171	
## 614	1.54e-04	0.001877	

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## 615 5.18e-08 0.004894
## 616 1.52e-03 0.009896
## 617 7.81e-04 0.003722
## 618 2.09e-03 0.006312
## 619 2.08e-06 0.004105
## 620 1.97e-04 0.004022
## 621 2.34e-03 0.003683 *
## 622 5.24e-05 0.003303
## 623 3.54e-05 0.001382
## 624 2.01e-04 0.004693
## 625 8.14e-04 0.002424
## 626 1.03e-03 0.006104
## 627 3.72e-03 0.004791 *
## 628 5.18e-05 0.002225
## 629 9.53e-05 0.002258
## 630 6.81e-04 0.004719
## 631 7.06e-06 0.003709
## 632 4.64e-05 0.002015
## 633 2.17e-04 0.004773
## 634 4.15e-05 0.006144
## 635 1.13e-06 0.003236
## 636 1.78e-04 0.001891
## 637 4.71e-05 0.001350
## 638 2.27e-04 0.001996
## 639 2.32e-04 0.004083
## 640 1.32e-04 0.004488
## 641 1.18e-04 0.003341
## 642 7.47e-04 0.002791
## 643 4.05e-04 0.001946
## 644 3.76e-06 0.002485
## 645 1.54e-04 0.002052
## 646 3.24e-05 0.001613
## 647 1.88e-03 0.010189
## 648 5.49e-05 0.006029
## 649 2.35e-04 0.001655
## 650 1.60e-03 0.003504 *
## 651 1.32e-07 0.000896
## 652 1.89e-06 0.001044
## 653 1.15e-05 0.001844
## 654 3.81e-05 0.001607
## 655 3.42e-05 0.001600
## 656 4.56e-04 0.004281
## 657 9.41e-04 0.005278
## 658 3.91e-04 0.001713
## 659 9.95e-06 0.000942
## 660 2.06e-03 0.004571 *
## 661 8.88e-04 0.006908
## 662 1.51e-04 0.002533
## 663 2.64e-05 0.002239
## 664 2.37e-04 0.002166
## 665 1.23e-07 0.002553
## 666 1.89e-03 0.002649 *
## 667 1.62e-06 0.003091
## 668 2.65e-07 0.002602

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```

## 669 2.82e-05 0.001338
## 670 1.14e-03 0.002315 *
## 671 1.00e-04 0.001886
## 672 2.55e-04 0.001376
## 673 1.47e-06 0.002286
## 674 5.27e-04 0.002035
## 675 5.15e-05 0.002291
## 676 9.54e-06 0.003186
## 677 1.56e-05 0.001126
## 678 3.94e-05 0.001762
## 679 8.74e-06 0.000889
## 680 4.23e-04 0.001263
## 681 8.17e-05 0.001679
## 682 4.96e-06 0.002140
## 683 3.99e-05 0.002394
## 684 7.31e-05 0.001902
## 685 1.65e-05 0.002443
## 686 2.35e-05 0.003904
## 687 1.10e-04 0.001789
## 688 3.05e-06 0.002049
## 689 4.17e-06 0.001830
## 690 4.07e-04 0.002048
## 691 8.35e-06 0.001053
## 692 1.63e-04 0.001780
## 693 2.47e-04 0.007833
## 694 9.96e-06 0.002551
## 695 8.70e-05 0.003388
## 696 1.52e-04 0.001845
## 697 1.39e-05 0.001387
## 698 6.82e-05 0.002927
## 699 2.75e-04 0.001505
## 700 1.27e-04 0.001263
## 701 1.17e-05 0.001478
## 702 4.77e-05 0.001527
## 703 6.69e-06 0.003085
## 704 2.65e-04 0.004720
## 705 5.07e-07 0.001084
## 706 1.29e-04 0.000891
## 707 4.61e-05 0.000879
## 708 8.01e-05 0.003123
## 709 5.72e-06 0.001055
## 710 7.17e-05 0.003854
## 711 1.81e-06 0.002146
## 712 4.39e-06 0.000977
## 713 2.24e-04 0.004754
## 714 2.71e-06 0.006496
## 715 5.70e-05 0.003090
## 716 5.40e-05 0.001700
## 717 2.31e-04 0.005274
## 718 5.05e-05 0.000930
## 719 1.56e-04 0.001891
## 720 2.54e-05 0.002268
## 721 2.48e-04 0.001141
## 722 1.55e-04 0.001572

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## 723 1.63e-07 0.003878
## 724 2.28e-08 0.001790
## 725 3.96e-04 0.004743
## 726 5.75e-08 0.001405
## 727 2.95e-03 0.014142 *
## 728 6.96e-06 0.005934
## 729 1.42e-05 0.004294
## 730 3.32e-05 0.003690
## 731 5.11e-05 0.001019
## 732 7.91e-05 0.002197
## 733 2.58e-05 0.000878
## 734 2.10e-04 0.005100
## 735 3.03e-05 0.002272
## 736 3.38e-07 0.002638
## 737 1.37e-04 0.002167
## 738 1.24e-04 0.000790
## 739 1.06e-05 0.000668
## 740 6.79e-04 0.006952
## 741 2.20e-05 0.003777
## 742 2.79e-04 0.002704
## 743 2.56e-04 0.001565
## 744 1.01e-04 0.004128
## 745 1.52e-04 0.001471
## 746 3.81e-04 0.001975
## 747 1.99e-04 0.004893
## 748 1.83e-03 0.006993
## 749 1.02e-03 0.002104 *
## 750 3.19e-05 0.002476
## 751 1.06e-04 0.002505
## 752 5.88e-06 0.001566
## 753 4.43e-08 0.001525
## 754 1.47e-05 0.001547
## 755 1.22e-03 0.006702
## 756 3.64e-04 0.001119
## 757 1.45e-05 0.001983
## 758 1.73e-04 0.003840
## 759 3.78e-04 0.001227
## 760 4.42e-04 0.002051
## 761 1.64e-07 0.001053
## 762 2.11e-05 0.000896
## 763 1.25e-04 0.001936
## 764 2.60e-04 0.002660
## 765 1.10e-04 0.003677
## 766 1.00e-04 0.003054
## 767 5.33e-04 0.004665
## 768 1.48e-04 0.001646
## 769 2.69e-06 0.001365
## 770 1.38e-05 0.004629
## 771 6.58e-04 0.004017
## 772 3.20e-05 0.002332
## 773 2.41e-04 0.005191
## 774 1.21e-05 0.001154
## 775 3.30e-03 0.003551 *
## 776 2.76e-04 0.005092

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```

## 777 2.11e-04 0.002302
## 778 1.78e-04 0.002799
## 779 5.21e-05 0.004636
## 780 2.53e-03 0.005081 *
## 781 3.97e-06 0.001789
## 782 3.66e-06 0.001756
## 783 4.88e-03 0.009019 *
## 784 4.70e-04 0.003527
## 785 6.99e-05 0.002086
## 786 6.14e-04 0.005644
## 787 1.95e-04 0.004211
## 788 2.66e-07 0.002642
## 789 1.39e-05 0.002522
## 790 6.70e-05 0.006392
## 791 3.17e-04 0.002484
## 792 3.84e-06 0.001133
## 793 8.10e-05 0.002709
## 794 3.05e-04 0.008120
## 795 2.32e-05 0.006464
## 796 2.03e-03 0.015187 *
## 797 9.67e-05 0.001714
## 798 9.11e-05 0.004106
## 799 4.61e-05 0.001939
## 800 4.41e-06 0.004562
## 801 3.29e-07 0.001323
## 802 6.33e-07 0.002799
## 803 2.15e-03 0.003629 *
## 804 1.16e-04 0.006988
## 805 1.37e-03 0.005501
## 806 7.11e-07 0.004814
## 807 6.50e-06 0.002777
## 808 8.96e-06 0.003822
## 809 3.77e-06 0.009999 *
## 810 3.84e-07 0.005745
## 811 5.26e-05 0.004257
## 812 3.79e-03 0.003624 *
## 813 1.78e-04 0.001863
## 814 2.99e-06 0.002418
## 815 8.67e-05 0.005577
## 816 4.14e-05 0.004373
## 817 4.55e-05 0.002592
## 818 6.95e-06 0.002063
## 819 9.96e-07 0.002526
## 820 3.22e-05 0.000842
## 821 1.12e-04 0.003359
## 822 3.15e-04 0.006681
## 823 1.98e-07 0.001980
## 824 1.60e-03 0.007496
## 825 4.17e-04 0.005230
## 826 2.67e-04 0.004263
## 827 3.18e-08 0.007318
## 828 1.87e-05 0.003013
## 829 1.94e-05 0.001670
## 830 2.79e-05 0.002475

```



##	831	8.59e-06	0.001797	
##	832	3.51e-04	0.003900	
##	833	3.69e-05	0.005377	
##	834	1.93e-06	0.002184	
##	835	5.48e-04	0.002543	
##	836	4.37e-05	0.001720	
##	837	2.27e-04	0.005579	
##	838	7.10e-05	0.004068	
##	839	2.07e-04	0.004644	
##	840	9.57e-05	0.008693	*
##	841	1.04e-05	0.001897	
##	842	1.97e-06	0.002385	
##	843	5.25e-06	0.001260	
##	844	8.29e-05	0.002529	
##	845	6.63e-03	0.008605	*
##	846	1.25e-04	0.003097	
##	847	2.85e-04	0.002073	
##	848	3.20e-04	0.002502	
##	849	2.50e-04	0.003111	
##	850	1.74e-05	0.004110	
##	851	1.68e-05	0.002772	
##	852	1.94e-04	0.003384	
##	853	1.74e-04	0.010786	*
##	854	1.07e-03	0.010029	
##	855	2.28e-04	0.006032	
##	856	6.04e-06	0.001234	
##	857	9.18e-07	0.002192	
##	858	2.48e-06	0.001838	
##	859	3.51e-06	0.001503	
##	860	1.20e-04	0.004099	
##	861	4.08e-05	0.001463	
##	862	1.15e-04	0.001905	
##	863	1.56e-07	0.002341	
##	864	5.57e-07	0.001472	
##	865	4.31e-08	0.002511	
##	866	1.99e-07	0.003102	
##	867	2.65e-06	0.002162	
##	868	7.40e-05	0.001610	
##	869	7.89e-06	0.001187	
##	870	2.35e-04	0.002430	
##	871	8.80e-06	0.001231	
##	872	1.82e-04	0.001980	
##	873	1.00e-04	0.002505	
##	874	1.37e-05	0.002978	
##	875	8.70e-05	0.002686	
##	876	2.37e-07	0.000999	
##	877	1.07e-04	0.002666	
##	878	6.98e-05	0.001193	
##	879	1.43e-03	0.006707	
##	880	6.33e-08	0.002171	
##	881	4.75e-06	0.002341	
##	882	2.08e-05	0.001073	
##	883	1.72e-07	0.002243	
##	884	9.55e-05	0.014242	*

## 885	3.43e-05	0.001940	
## 886	2.43e-04	0.010336	*
## 887	1.39e-03	0.010982	
## 888	1.43e-04	0.002755	
## 889	3.52e-04	0.002500	
## 890	4.10e-04	0.005064	
## 891	4.12e-05	0.001873	
## 892	3.17e-06	0.001048	
## 893	8.89e-05	0.002149	
## 894	2.25e-08	0.002225	
## 895	1.31e-03	0.009085	
## 896	1.33e-04	0.003072	
## 897	1.81e-04	0.003263	
## 898	2.29e-04	0.003167	
## 899	1.53e-05	0.001822	
## 900	2.84e-03	0.012709	*
## 901	1.92e-05	0.002349	
## 902	1.49e-03	0.006092	
## 903	9.64e-05	0.002029	
## 904	4.00e-05	0.002925	
## 905	2.53e-03	0.011984	*
## 906	2.18e-07	0.001929	
## 907	6.44e-04	0.005337	
## 908	2.65e-04	0.002827	
## 909	2.44e-06	0.002234	
## 910	1.27e-05	0.005255	
## 911	7.95e-05	0.002287	
## 912	1.48e-02	0.011884	*
## 913	4.54e-03	0.010212	*
## 914	4.38e-06	0.003441	
## 915	4.49e-04	0.006267	
## 916	2.40e-03	0.007334	
## 917	4.61e-05	0.001320	
## 918	1.38e-03	0.005456	
## 919	4.07e-04	0.004761	
## 920	1.10e-03	0.004880	
## 921	1.98e-03	0.002555	*
## 922	5.23e-06	0.007933	*
## 923	2.13e-03	0.005403	
## 924	4.09e-04	0.006134	
## 925	2.33e-03	0.005095	*
## 926	1.49e-04	0.004018	
## 927	9.68e-06	0.010695	*
## 928	4.60e-04	0.005289	
## 929	2.60e-04	0.002130	
## 930	2.82e-03	0.011777	
## 931	4.05e-06	0.006452	
## 932	8.94e-05	0.002724	
## 933	5.02e-04	0.002275	
## 934	9.64e-04	0.005069	
## 935	5.78e-04	0.005326	
## 936	1.70e-03	0.009864	
## 937	1.62e-03	0.003814	*
## 938	8.98e-04	0.003333	

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## 939 3.67e-04 0.007847
## 940 2.88e-04 0.002093
## 941 5.47e-05 0.001465
## 942 1.10e-05 0.001432
## 943 1.33e-07 0.001357
## 944 4.25e-06 0.003087
## 945 2.73e-04 0.002498
## 946 1.11e-04 0.001567
## 947 2.51e-04 0.003367
## 948 2.83e-07 0.001541
## 949 1.08e-07 0.001178
## 950 2.01e-05 0.001793
## 951 1.00e-07 0.001456
## 952 7.28e-06 0.001670
## 953 3.23e-05 0.001653
## 954 7.60e-05 0.001535
## 955 2.36e-04 0.002281
## 956 7.05e-06 0.002760
## 957 1.92e-04 0.001912
## 958 4.87e-04 0.004555
## 959 7.87e-05 0.001268
## 960 9.34e-06 0.001390
## 961 4.34e-05 0.009224 *
## 962 3.81e-06 0.001806
## 963 1.21e-05 0.002293
## 964 4.23e-04 0.002409
## 965 2.93e-06 0.003325
## 966 4.77e-04 0.004713
## 967 1.32e-04 0.006304
## 968 1.20e-04 0.002972
## 969 6.70e-07 0.001334
## 970 1.98e-04 0.002633
## 971 1.51e-05 0.001590
## 972 1.57e-03 0.007897
## 973 4.08e-08 0.003122
## 974 1.91e-05 0.002773
## 975 6.76e-04 0.002312
## 976 1.62e-05 0.002343
## 977 1.43e-04 0.001929
## 978 1.82e-06 0.002468
## 979 2.90e-03 0.005506 *
## 980 1.93e-04 0.002903
## 981 5.93e-05 0.003950
## 982 2.22e-06 0.016449 *
## 983 2.06e-04 0.002979
## 984 2.66e-04 0.002183
## 985 9.82e-05 0.002542
## 986 1.05e-05 0.001996
## 987 1.19e-04 0.001645
## 988 2.85e-04 0.002088
## 989 1.51e-04 0.001662
## 990 1.59e-04 0.007269
## 991 8.40e-04 0.005514
## 992 1.32e-05 0.001782

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## 993 8.00e-04 0.009846
## 994 3.46e-05 0.002768
## 995 1.08e-05 0.003000
## 996 2.24e-05 0.003719
## 997 6.41e-04 0.008310
## 998 1.93e-06 0.006510
## 999 3.34e-05 0.004991
## 1000 3.74e-05 0.014998 *
## 1001 4.51e-04 0.003244
## 1002 3.87e-04 0.003670
## 1003 2.62e-04 0.004251
## 1004 1.11e-04 0.002587
## 1005 4.19e-05 0.017270 *
## 1006 2.42e-04 0.002648
## 1007 3.18e-03 0.010208 *
## 1008 3.56e-04 0.005921
## 1009 2.35e-04 0.004300
## 1010 2.30e-04 0.004240
## 1011 8.48e-05 0.005469
## 1012 2.00e-04 0.003031
## 1013 5.42e-05 0.017874 *
## 1014 3.37e-05 0.002836
## 1015 1.26e-06 0.007578
## 1016 7.01e-06 0.008636 *
## 1017 9.66e-06 0.010589 *
## 1018 2.04e-04 0.003796
## 1019 6.49e-05 0.008262 *
## 1020 3.30e-05 0.000965
## 1021 6.59e-06 0.005742
## 1022 1.85e-03 0.058855 *
## 1023 7.44e-05 0.013175 *
## 1024 4.25e-05 0.002299
## 1025 1.91e-04 0.033959 *
## 1026 1.63e-04 0.005193
## 1027 1.21e-03 0.056552 *
## 1028 1.42e-04 0.003043
## 1029 7.13e-05 0.002214
## 1030 5.03e-06 0.006953
## 1031 7.70e-07 0.001654
## 1032 6.94e-05 0.002752
## 1033 4.63e-04 0.011080 *
## 1034 2.78e-06 0.004090
## 1035 3.85e-05 0.005860
## 1036 1.40e-06 0.011940 *
## 1037 1.16e-04 0.002282
## 1038 3.47e-05 0.006284
## 1039 5.24e-04 0.006327
## 1040 3.72e-04 0.003496
## 1041 5.84e-05 0.003137
## 1042 5.57e-05 0.007050
## 1043 6.43e-05 0.010160 *
## 1044 4.47e-05 0.006015
## 1045 6.39e-06 0.002345
## 1046 2.82e-05 0.003820

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## 1047 1.46e-04 0.002004
## 1048 2.32e-03 0.003684 *
## 1049 4.34e-04 0.003324
## 1050 3.23e-05 0.011959 *
## 1051 4.15e-04 0.002808
## 1052 1.00e-04 0.003459
## 1053 1.02e-06 0.003368
## 1054 1.60e-04 0.001528
## 1055 9.28e-04 0.003735
## 1056 2.45e-04 0.002287
## 1057 8.06e-04 0.005422
## 1058 5.13e-03 0.008127 *
## 1059 4.01e-02 0.022144 *
## 1060 7.45e-04 0.009909
## 1061 6.92e-05 0.003018
## 1062 1.36e-05 0.005799
## 1063 5.02e-06 0.008676 *
## 1064 3.01e-05 0.001637
## 1065 2.96e-04 0.004332
## 1066 2.80e-03 0.004120 *
## 1067 2.28e-05 0.004047
## 1068 1.10e-04 0.001778
## 1069 2.33e-04 0.002126
## 1070 8.98e-04 0.005179
## 1071 4.22e-04 0.003658
## 1072 2.69e-04 0.003692
## 1073 2.03e-03 0.008701
## 1074 3.34e-03 0.008453 *
## 1075 1.19e-04 0.001704
## 1076 2.20e-03 0.003927 *
## 1077 4.94e-06 0.001305
## 1078 1.43e-05 0.003356
## 1079 3.71e-04 0.002775
## 1080 1.50e-04 0.002514
## 1081 4.21e-05 0.003049
## 1082 4.26e-04 0.004865
## 1083 1.10e-04 0.001775
## 1084 5.96e-05 0.001449
## 1085 2.32e-05 0.000709
## 1086 4.89e-05 0.004228
## 1087 5.88e-04 0.002252
## 1088 1.56e-04 0.002227
## 1089 3.28e-05 0.002348
## 1090 7.94e-04 0.004185
## 1091 1.01e-03 0.004785
## 1092 2.14e-04 0.002240
## 1093 2.43e-04 0.001303
## 1094 1.69e-02 0.013282 *
## 1095 1.41e-05 0.002554
## 1096 4.40e-05 0.002609
## 1097 9.44e-05 0.004772
## 1098 3.89e-05 0.003095
## 1099 6.09e-05 0.004767
## 1100 1.35e-04 0.005003

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## 1101 3.17e-07 0.005199
## 1102 1.75e-03 0.005311
## 1103 1.58e-06 0.005176
## 1104 3.32e-06 0.002553
## 1105 8.15e-06 0.009126      *
## 1106 2.10e-06 0.002220
## 1107 9.04e-06 0.006161
## 1108 5.29e-04 0.003122
## 1109 2.44e-05 0.002060
## 1110 1.65e-04 0.003101
## 1111 3.74e-07 0.002400
## 1112 3.00e-05 0.003209
## 1113 2.37e-05 0.004952
## 1114 1.48e-04 0.004661
## 1115 2.74e-06 0.001567
## 1116 1.66e-06 0.001645
## 1117 6.30e-06 0.000738
## 1118 1.02e-05 0.001824
## 1119 6.78e-05 0.001960
## 1120 5.07e-04 0.002831
## 1121 3.88e-05 0.001113
## 1122 2.26e-07 0.003633
## 1123 1.85e-06 0.001107
## 1124 1.86e-05 0.001855
## 1125 2.24e-04 0.002921
## 1126 1.63e-05 0.002040
## 1127 1.67e-10 0.001235
## 1128 5.60e-07 0.001479
## 1129 5.61e-06 0.001657
## 1130 3.27e-04 0.001573
## 1131 1.49e-05 0.002303
## 1132 4.09e-07 0.000987
## 1133 1.33e-04 0.001969
## 1134 1.03e-06 0.001363
## 1135 1.39e-08 0.001259
## 1136 1.39e-04 0.002019
## 1137 1.22e-05 0.001509
## 1138 4.83e-04 0.002565
## 1139 1.98e-04 0.013453      *
## 1140 3.08e-09 0.003541
## 1141 1.94e-06 0.001383
## 1142 9.72e-06 0.001539
## 1143 1.41e-06 0.002084
## 1144 4.95e-05 0.001517
## 1145 2.17e-06 0.002463
## 1146 2.09e-06 0.001459
## 1147 1.11e-03 0.006725
## 1148 3.34e-04 0.003453
## 1149 1.05e-05 0.002690
## 1150 2.03e-05 0.002514
## 1151 7.15e-05 0.001397
## 1152 2.52e-06 0.000890
## 1153 1.37e-05 0.001606
## 1154 8.12e-06 0.001909

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## 1155 1.13e-03 0.005292
## 1156 2.66e-05 0.001473
## 1157 1.39e-04 0.002522
## 1158 1.06e-05 0.001076
## 1159 8.46e-06 0.001864
## 1160 3.01e-04 0.001246
## 1161 2.00e-05 0.001598
## 1162 2.72e-05 0.002183
## 1163 4.73e-04 0.005271
## 1164 1.10e-05 0.001192
## 1165 2.39e-04 0.001789
## 1166 5.93e-05 0.002073
## 1167 1.30e-05 0.002274
## 1168 3.56e-05 0.001594
## 1169 8.06e-06 0.001598
## 1170 4.57e-08 0.001792
## 1171 5.96e-05 0.001382
## 1172 1.82e-03 0.008996
## 1173 1.22e-05 0.001825
## 1174 1.77e-03 0.003462      *
## 1175 1.00e-04 0.001557
## 1176 2.27e-04 0.001518
## 1177 3.73e-04 0.004897
## 1178 4.02e-08 0.002346
## 1179 2.10e-07 0.001055
## 1180 1.81e-05 0.007592
## 1181 4.11e-04 0.004956
## 1182 2.13e-05 0.001474
## 1183 1.48e-04 0.003894
## 1184 1.00e-05 0.003215
## 1185 1.93e-05 0.002595
## 1186 6.17e-06 0.001611
## 1187 4.44e-04 0.003590
## 1188 3.26e-06 0.001440
## 1189 2.37e-04 0.003927
## 1190 1.56e-04 0.002235
## 1191 7.84e-05 0.004202
## 1192 2.39e-04 0.003297
## 1193 5.32e-06 0.004189
## 1194 7.60e-05 0.001550
## 1195 7.09e-04 0.004057
## 1196 3.72e-04 0.001936
## 1197 6.31e-06 0.003631
## 1198 2.14e-05 0.005169
## 1199 3.50e-06 0.002101
## 1200 9.60e-05 0.002692
## 1201 6.85e-04 0.007220
## 1202 1.62e-04 0.009856      *
## 1203 2.65e-03 0.012180      *
## 1204 4.95e-03 0.014229      *
## 1205 1.15e-05 0.001480
## 1206 1.99e-05 0.001461
## 1207 5.16e-06 0.005247
## 1208 1.20e-03 0.009292

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## 1209 2.38e-05 0.005331
## 1210 3.00e-05 0.002666
## 1211 7.92e-04 0.006135
## 1212 9.74e-05 0.005856
## 1213 1.67e-05 0.002449
## 1214 2.51e-04 0.002466
## 1215 3.50e-06 0.003042
## 1216 6.04e-04 0.004841
## 1217 9.87e-04 0.001751      *
## 1218 2.08e-05 0.007190
## 1219 1.40e-04 0.001887
## 1220 1.98e-07 0.003450
## 1221 1.06e-02 0.003421      *
## 1222 8.25e-07 0.003780
## 1223 8.61e-04 0.003953
## 1224 1.85e-04 0.001904
## 1225 1.23e-04 0.005444
## 1226 5.61e-06 0.002689
## 1227 4.26e-06 0.002175
## 1228 6.59e-07 0.007689
## 1229 2.51e-03 0.009591
## 1230 2.36e-04 0.004783
## 1231 1.13e-04 0.002946
## 1232 4.96e-05 0.005651
## 1233 6.43e-08 0.005235
## 1234 9.23e-08 0.001985
## 1235 1.48e-04 0.003696
## 1236 3.53e-03 0.011473      *
## 1237 1.00e-04 0.001876
## 1238 1.04e-04 0.004884
## 1239 1.29e-03 0.008028
## 1240 2.39e-04 0.003477
## 1241 5.50e-04 0.003138
## 1242 2.06e-04 0.003111
## 1243 2.01e-04 0.007230
## 1244 5.08e-04 0.009047
## 1245 2.07e-04 0.001548
## 1246 2.41e-06 0.002627
## 1247 9.10e-08 0.001498
## 1248 8.00e-04 0.008711
## 1249 4.20e-04 0.001913
## 1250 4.68e-04 0.005665
## 1251 6.53e-07 0.003295
## 1252 1.55e-04 0.007578
## 1253 3.81e-04 0.003466
## 1254 4.48e-05 0.006832
## 1255 2.15e-04 0.007555
## 1256 6.39e-04 0.004098
## 1257 6.12e-04 0.007101
## 1258 4.56e-04 0.005707
## 1259 1.99e-04 0.008374
## 1260 4.62e-05 0.003098
## 1261 2.19e-03 0.002745      *
## 1262 8.81e-07 0.002161

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## 1263 3.29e-05 0.002401
## 1264 2.20e-05 0.003373
## 1265 1.67e-04 0.000960
## 1266 1.35e-04 0.006254
## 1267 5.30e-06 0.002679
## 1268 4.85e-06 0.004808
## 1269 7.69e-07 0.001879
## 1270 2.99e-04 0.001431
## 1271 3.69e-06 0.002386
## 1272 4.51e-06 0.001305
## 1273 2.13e-04 0.003679
## 1274 1.47e-05 0.002063
## 1275 4.05e-05 0.000861
## 1276 2.29e-03 0.005837
## 1277 7.82e-05 0.001371
## 1278 1.29e-04 0.005705
## 1279 9.30e-06 0.001350
## 1280 9.55e-05 0.001743
## 1281 9.44e-04 0.002635
## 1282 6.12e-07 0.001984
## 1283 6.30e-05 0.000797
## 1284 5.00e-06 0.001273
## 1285 3.17e-05 0.002443
## 1286 1.70e-06 0.003063
## 1287 3.82e-04 0.002473
## 1288 3.56e-04 0.005940
## 1289 3.28e-04 0.003178
## 1290 1.33e-03 0.005563
## 1291 5.99e-05 0.004656
## 1292 1.43e-06 0.006026
## 1293 8.40e-04 0.004923
## 1294 6.40e-07 0.000939
## 1295 4.28e-04 0.003647
## 1296 5.30e-04 0.002979
## 1297 4.32e-03 0.015257 *
## 1298 1.68e-04 0.002759
## 1299 1.33e-03 0.017278 *
## 1300 1.95e-04 0.002657
## 1301 4.35e-05 0.004123
## 1302 9.01e-05 0.001629
## 1303 2.46e-06 0.001649
## 1304 2.58e-03 0.005788
## 1305 6.72e-04 0.002280
## 1306 2.66e-05 0.001673
## 1307 1.96e-06 0.001598
## 1308 1.92e-05 0.004939
## 1309 4.59e-05 0.002287
## 1310 3.94e-03 0.007298 *
## 1311 3.67e-04 0.000916 *
## 1312 2.70e-04 0.003572
## 1313 3.10e-04 0.002790
## 1314 1.90e-10 0.001483
## 1315 4.88e-05 0.001433
## 1316 3.57e-04 0.001126

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## 1317 4.32e-04 0.001429
## 1318 3.91e-05 0.002396
## 1319 2.29e-07 0.001649
## 1320 1.72e-04 0.001983
## 1321 6.40e-05 0.001288
## 1322 3.30e-05 0.004546
## 1323 9.00e-05 0.001229
## 1324 1.38e-04 0.001736
## 1325 1.12e-04 0.000869
## 1326 1.74e-04 0.001873
## 1327 5.67e-05 0.003449
## 1328 1.89e-04 0.002196
## 1329 7.96e-05 0.002549
## 1330 6.10e-04 0.001992
## 1331 1.32e-03 0.002086      *
## 1332 5.95e-06 0.000899
## 1333 8.89e-07 0.001873
## 1334 9.01e-05 0.001141
## 1335 6.21e-05 0.002721
## 1336 1.49e-06 0.001230
## 1337 5.89e-05 0.002616
## 1338 1.30e-05 0.001885
## 1339 2.12e-05 0.002434
## 1340 3.47e-06 0.000692
## 1341 1.16e-04 0.002804
## 1342 3.54e-06 0.001266
## 1343 3.57e-04 0.006376
## 1344 1.69e-05 0.001184
## 1345 1.24e-03 0.002073      *
## 1346 1.07e-04 0.000812
## 1347 1.31e-05 0.001608
## 1348 2.75e-08 0.001547
## 1349 1.97e-07 0.001449
## 1350 6.69e-04 0.023201      *
## 1351 2.30e-06 0.000922
## 1352 1.60e-04 0.003939
## 1353 4.09e-05 0.002979
## 1354 7.51e-05 0.003183
## 1355 7.74e-04 0.002132
## 1356 1.06e-03 0.010075
## 1357 3.20e-04 0.008613
## 1358 3.68e-06 0.000671
## 1359 3.03e-05 0.002597
## 1360 5.26e-04 0.005288
## 1361 9.71e-05 0.001374
## 1362 3.28e-06 0.000982
## 1363 4.74e-05 0.002351
## 1364 1.34e-05 0.002011
## 1365 2.06e-05 0.001035
## 1366 7.50e-03 0.003094      *
## 1367 6.06e-04 0.003145
## 1368 6.70e-05 0.006246
## 1369 4.69e-05 0.001769
## 1370 7.21e-05 0.001466

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## 1371 4.06e-05 0.001090
## 1372 9.41e-06 0.001489
## 1373 3.42e-04 0.006680
## 1374 1.29e-06 0.006447
## 1375 4.19e-06 0.001965
## 1376 8.79e-05 0.001243
## 1377 4.19e-05 0.002724
## 1378 9.03e-06 0.000995
## 1379 1.19e-04 0.005547
## 1380 3.37e-05 0.006267
## 1381 9.68e-07 0.002719
## 1382 1.71e-04 0.002117
## 1383 4.67e-05 0.002344
## 1384 1.42e-04 0.002010
## 1385 8.98e-05 0.004104
## 1386 6.56e-05 0.002253
## 1387 8.96e-05 0.002049
## 1388 2.90e-05 0.005877
## 1389 3.55e-04 0.005765
## 1390 3.38e-03 0.008150      *
## 1391 1.28e-04 0.004491
## 1392 5.04e-05 0.001183
## 1393 7.83e-04 0.010845
## 1394 8.69e-04 0.003655
## 1395 8.76e-05 0.001627
## 1396 1.10e-04 0.004369
## 1397 1.89e-05 0.002007
## 1398 3.22e-04 0.003144
## 1399 2.11e-04 0.002642
## 1400 1.57e-03 0.008007
## 1401 2.96e-03 0.006660
## 1402 2.53e-04 0.002966
## 1403 1.75e-03 0.007872
## 1404 2.67e-04 0.002483
## 1405 5.50e-04 0.001663
## 1406 1.05e-04 0.003969
## 1407 3.26e-07 0.002427
## 1408 1.16e-04 0.002033
## 1409 3.70e-04 0.003061
## 1410 9.59e-05 0.002570
## 1411 1.28e-04 0.001858
## 1412 6.81e-05 0.001797
## 1413 3.36e-05 0.002449
## 1414 5.88e-05 0.001946
## 1415 2.92e-05 0.002781
## 1416 4.99e-05 0.002691
## 1417 2.10e-04 0.002648
## 1418 2.68e-05 0.003590
## 1419 6.24e-06 0.002225
## 1420 3.78e-06 0.002162
## 1421 6.62e-05 0.001419
## 1422 1.34e-05 0.010044      *
## 1423 1.17e-04 0.004831
## 1424 5.54e-05 0.002469

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## 1425 1.34e-07 0.001690
## 1426 1.23e-04 0.002000
## 1427 3.42e-06 0.002379
## 1428 1.31e-04 0.003386
## 1429 8.83e-03 0.009947 *
## 1430 3.39e-06 0.002059
## 1431 4.07e-04 0.005605
## 1432 4.97e-05 0.005339
## 1433 1.46e-05 0.002320
## 1434 4.96e-04 0.002735
## 1435 1.41e-05 0.002935
## 1436 1.13e-03 0.005231
## 1437 4.19e-05 0.005263
## 1438 4.35e-06 0.002169
## 1439 6.09e-05 0.002160
## 1440 4.00e-04 0.005375
## 1441 5.29e-06 0.003198
## 1442 5.15e-04 0.002858
## 1443 4.64e-06 0.004790
## 1444 5.49e-04 0.003999
## 1445 1.05e-03 0.004066
## 1446 7.49e-08 0.001852
## 1447 2.19e-05 0.007605
## 1448 1.62e-03 0.006221
## 1449 1.23e-04 0.005679
## 1450 9.58e-06 0.003437
## 1451 5.06e-06 0.001571
## 1452 2.62e-04 0.004052
## 1453 3.28e-05 0.001669
## 1454 1.79e-03 0.009192
## 1455 6.29e-05 0.003243
## 1456 7.85e-05 0.003345
## 1457 3.76e-04 0.005024
## 1458 2.60e-05 0.001639
## 1459 2.63e-04 0.002169
## 1460 8.53e-05 0.005634
## 1461 7.38e-08 0.001216
## 1462 7.11e-04 0.004004
## 1463 7.32e-04 0.002310
## 1464 8.87e-07 0.006103
## 1465 1.09e-04 0.001572
## 1466 6.07e-05 0.002470
## 1467 1.51e-04 0.003121
## 1468 1.66e-03 0.005920
## 1469 3.37e-05 0.005274
## 1470 3.61e-05 0.002016
## 1471 7.66e-05 0.001235
## 1472 1.53e-04 0.001986
## 1473 1.30e-05 0.003179
## 1474 2.57e-05 0.002847
## 1475 8.12e-05 0.002039
## 1476 2.52e-04 0.002151
## 1477 8.85e-06 0.001288
## 1478 4.16e-05 0.003749

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## 1479 1.37e-04 0.001160
## 1480 4.57e-06 0.003788
## 1481 4.48e-05 0.001544
## 1482 5.62e-05 0.002235
## 1483 1.41e-05 0.002603
## 1484 1.42e-04 0.001248
## 1485 2.17e-04 0.003802
## 1486 5.36e-07 0.002512
## 1487 2.03e-03 0.010992
## 1488 2.19e-05 0.002069
## 1489 4.28e-05 0.001969
## 1490 2.87e-09 0.075605      *
## 1491 1.99e-05 0.002040
## 1492 1.35e-04 0.001087
## 1493 1.67e-06 0.002453
## 1494 1.08e-04 0.001357
## 1495 8.98e-04 0.005427
## 1496 8.99e-04 0.006068
## 1497 9.21e-03 0.006812      *
## 1498 9.03e-06 0.002139
## 1499 2.51e-04 0.003260
## 1500 3.42e-05 0.001922
## 1501 1.67e-04 0.001698
## 1502 1.56e-04 0.002734
## 1503 1.19e-04 0.001650
## 1504 1.17e-03 0.003697
## 1505 1.78e-05 0.002922
## 1506 3.26e-04 0.002577
## 1507 8.22e-05 0.000979
## 1508 3.21e-05 0.001146
## 1509 5.22e-04 0.002599
## 1510 2.32e-04 0.001700
## 1511 3.58e-06 0.001591
## 1512 1.91e-04 0.005269
## 1513 2.95e-03 0.007532
## 1514 1.35e-04 0.002561
## 1515 2.05e-06 0.003624
## 1516 3.56e-04 0.005712
## 1517 6.84e-04 0.002399
## 1518 8.85e-04 0.005198
## 1519 1.20e-03 0.003644
## 1520 6.25e-05 0.001210
## 1521 2.80e-05 0.002799
## 1522 5.86e-04 0.002928
## 1523 4.89e-04 0.003715
## 1524 9.04e-04 0.002819
## 1525 2.18e-04 0.001387
## 1526 2.89e-05 0.002319
## 1527 2.30e-04 0.002070
## 1528 2.95e-05 0.003121
## 1529 6.30e-05 0.005523
## 1530 2.35e-05 0.004692
## 1531 7.48e-06 0.001634
## 1532 1.77e-04 0.003274

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## 1533 1.97e-04 0.002480
## 1534 2.20e-04 0.003010
## 1535 1.15e-04 0.002595
## 1536 1.14e-05 0.001916
## 1537 1.63e-04 0.001907
## 1538 8.51e-04 0.004065
## 1539 3.61e-05 0.002135
## 1540 1.26e-04 0.001943
## 1541 3.31e-06 0.002305
## 1542 7.57e-04 0.001608      *
## 1543 3.80e-04 0.001658
## 1544 1.10e-06 0.005623
## 1545 8.54e-05 0.002165
## 1546 7.52e-05 0.002738
## 1547 1.26e-05 0.001164
## 1548 2.38e-03 0.005560
## 1549 3.74e-08 0.003209
## 1550 3.31e-05 0.002418
## 1551 4.61e-05 0.003100
## 1552 1.06e-03 0.004673
## 1553 2.07e-05 0.000587
## 1554 6.99e-04 0.016061      *
## 1555 9.55e-05 0.003499
## 1556 9.94e-06 0.001836
## 1557 7.15e-05 0.002243
## 1558 9.67e-06 0.001190
## 1559 5.05e-05 0.001944
## 1560 1.08e-03 0.002979
## 1561 1.87e-05 0.003262
## 1562 8.71e-05 0.002210
## 1563 9.64e-06 0.005485
## 1564 6.79e-06 0.001566
## 1565 4.23e-07 0.001413
## 1566 3.45e-05 0.001306
## 1567 7.00e-05 0.002401
## 1568 1.43e-03 0.003421      *
## 1569 1.42e-04 0.006016
## 1570 2.11e-04 0.001568
## 1571 4.44e-05 0.002521
## 1572 7.67e-04 0.005127
## 1573 8.98e-04 0.003053
## 1574 3.41e-04 0.007527
## 1575 4.41e-08 0.001288
## 1576 2.65e-05 0.001433
## 1577 9.77e-06 0.004087
## 1578 3.35e-06 0.002582
## 1579 1.94e-05 0.002103
## 1580 6.81e-04 0.002720
## 1581 6.27e-07 0.002479
## 1582 9.53e-05 0.002589
## 1583 3.99e-06 0.001370
## 1584 6.85e-04 0.004981
## 1585 6.34e-05 0.002399
## 1586 3.98e-06 0.003913

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## 1587 2.94e-06 0.003509
## 1588 3.32e-05 0.001941
## 1589 1.42e-03 0.006006
## 1590 2.16e-05 0.001246
## 1591 5.25e-06 0.001606
## 1592 1.28e-05 0.000846
## 1593 7.27e-05 0.002114
## 1594 3.88e-05 0.004209
## 1595 5.45e-04 0.003770
## 1596 2.27e-04 0.005488
## 1597 1.77e-05 0.004967
## 1598 9.75e-07 0.001404
## 1599 7.61e-05 0.001007
## 1600 4.24e-08 0.002515
## 1601 7.12e-05 0.010685      *
## 1602 6.45e-05 0.001880
## 1603 2.30e-05 0.001337
## 1604 1.35e-04 0.001444
## 1605 5.39e-05 0.001099
## 1606 2.29e-05 0.001155
## 1607 4.56e-05 0.001692
## 1608 5.35e-05 0.001432
## 1609 8.84e-07 0.000964
## 1610 3.85e-04 0.001324
## 1611 2.04e-06 0.001030
## 1612 5.37e-05 0.001086
## 1613 6.54e-06 0.001631
## 1614 2.96e-06 0.002917
## 1615 7.32e-06 0.001273
## 1616 8.62e-05 0.001504
## 1617 6.20e-06 0.004212
## 1618 3.13e-05 0.001211
## 1619 3.92e-08 0.001732
## 1620 4.32e-05 0.001797
## 1621 8.66e-04 0.003859
## 1622 5.31e-05 0.003838
## 1623 1.76e-04 0.001917
## 1624 1.64e-06 0.002163
## 1625 2.20e-04 0.002166
## 1626 4.55e-06 0.002469
## 1627 3.14e-05 0.001294
## 1628 4.16e-05 0.002439
## 1629 1.54e-04 0.001963
## 1630 2.61e-05 0.002444
## 1631 8.92e-05 0.002283
## 1632 8.34e-05 0.001091
## 1633 8.64e-04 0.021319      *
## 1634 1.93e-04 0.001647
## 1635 2.12e-04 0.003481
## 1636 5.45e-05 0.001910
## 1637 2.44e-05 0.001405
## 1638 3.00e-05 0.001607
## 1639 7.93e-05 0.001239
## 1640 1.67e-05 0.000877

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## 1641 9.35e-05 0.001367
## 1642 4.80e-06 0.001138
## 1643 7.63e-04 0.004312
## 1644 1.03e-04 0.001135
## 1645 1.27e-05 0.001814
## 1646 1.28e-06 0.002077
## 1647 8.21e-08 0.001712
## 1648 1.71e-04 0.003017
## 1649 6.42e-05 0.001630
## 1650 4.68e-06 0.001493
## 1651 4.41e-05 0.001048
## 1652 1.36e-05 0.001960
## 1653 1.68e-06 0.001598
## 1654 1.72e-05 0.001105
## 1655 1.54e-04 0.001260
## 1656 1.01e-03 0.003791
## 1657 5.29e-05 0.001734
## 1658 3.37e-04 0.001015
## 1659 9.36e-05 0.002051
## 1660 1.08e-04 0.001301
## 1661 1.98e-04 0.004202
## 1662 8.31e-05 0.001822
## 1663 2.62e-05 0.000864
## 1664 2.77e-08 0.003217
## 1665 2.96e-06 0.001659
## 1666 9.75e-05 0.002054
## 1667 2.07e-04 0.001555
## 1668 5.23e-06 0.004107
## 1669 2.78e-07 0.001855
## 1670 5.47e-06 0.002498
## 1671 1.22e-07 0.001096
## 1672 2.38e-05 0.001623
## 1673 5.16e-06 0.001666
## 1674 1.60e-05 0.000958
## 1675 3.47e-07 0.002307
## 1676 4.87e-06 0.001747
## 1677 8.75e-05 0.003267
## 1678 7.19e-06 0.003410
## 1679 1.38e-06 0.000763
## 1680 3.63e-06 0.001148
## 1681 9.34e-05 0.002484
## 1682 2.78e-04 0.003621
## 1683 7.25e-05 0.001569
## 1684 1.06e-03 0.008126
## 1685 1.18e-04 0.001820
## 1686 7.72e-04 0.002603
## 1687 3.39e-03 0.009166 *
## 1688 6.88e-05 0.003405
## 1689 4.27e-07 0.002502
## 1690 7.22e-05 0.001726
## 1691 2.63e-04 0.002561
## 1692 5.54e-04 0.002856
## 1693 9.64e-06 0.000810
## 1694 1.00e-04 0.003779

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## 1695 9.44e-04 0.012668  *
## 1696 1.66e-05 0.001450
## 1697 3.96e-06 0.001352
## 1698 4.69e-06 0.002290
## 1699 2.63e-05 0.001433
## 1700 2.14e-06 0.001231
## 1701 3.38e-04 0.001311
## 1702 5.08e-05 0.001333
## 1703 1.61e-06 0.001131
## 1704 5.64e-07 0.001199
## 1705 4.76e-07 0.002521
## 1706 1.54e-05 0.001619
## 1707 6.41e-05 0.001564
## 1708 1.42e-03 0.004177
## 1709 1.39e-05 0.001265
## 1710 5.21e-04 0.004706
## 1711 1.95e-05 0.002188
## 1712 5.15e-06 0.001356
## 1713 8.41e-06 0.001436
## 1714 4.89e-05 0.001423
## 1715 1.80e-05 0.001711
## 1716 6.59e-06 0.000766
## 1717 1.47e-05 0.001526
## 1718 8.34e-06 0.001971
## 1719 1.29e-05 0.002415
## 1720 1.91e-06 0.002403
## 1721 5.68e-10 0.001262
## 1722 1.20e-07 0.002201
## 1723 1.45e-04 0.009792  *
## 1724 1.04e-04 0.001336
## 1725 7.51e-06 0.001619
## 1726 2.43e-06 0.001161
## 1727 9.34e-07 0.001388
## 1728 9.14e-05 0.002205
## 1729 8.34e-06 0.001232
## 1730 7.61e-06 0.001821
## 1731 1.86e-07 0.001857
## 1732 2.54e-05 0.001054
## 1733 2.36e-06 0.001053
## 1734 7.98e-07 0.001601
## 1735 8.44e-06 0.002214
## 1736 4.32e-06 0.001867
## 1737 4.99e-05 0.001294
## 1738 8.47e-05 0.002158
## 1739 2.12e-07 0.000988
## 1740 2.35e-04 0.001853
## 1741 2.04e-05 0.002505
## 1742 7.96e-06 0.003100
## 1743 4.69e-04 0.002511
## 1744 1.29e-05 0.001931
## 1745 3.64e-05 0.001766
## 1746 2.89e-05 0.001983
## 1747 8.43e-05 0.007264
## 1748 1.33e-04 0.003411

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## 1749 2.16e-05 0.000924
## 1750 4.03e-08 0.001713
## 1751 8.66e-05 0.001669
## 1752 6.01e-05 0.000982
## 1753 1.79e-04 0.003510
## 1754 2.00e-05 0.001060
## 1755 2.36e-05 0.000920
## 1756 9.42e-05 0.002867
## 1757 1.57e-05 0.001565
## 1758 2.44e-05 0.001350
## 1759 2.79e-05 0.001141
## 1760 3.35e-06 0.001399
## 1761 4.71e-06 0.001396
## 1762 8.17e-07 0.001794
## 1763 2.16e-05 0.001358
## 1764 2.22e-04 0.002531
## 1765 4.09e-05 0.002394
## 1766 7.37e-06 0.002165
## 1767 1.72e-06 0.003520
## 1768 2.81e-05 0.001659
## 1769 3.93e-07 0.001687
## 1770 5.66e-08 0.001751
## 1771 2.06e-04 0.011213      *
## 1772 9.20e-06 0.000740
## 1773 4.05e-05 0.006808
## 1774 4.57e-04 0.004567
## 1775 1.20e-04 0.001149
## 1776 7.34e-07 0.001829
## 1777 8.67e-04 0.003841
## 1778 3.29e-06 0.002579
## 1779 2.29e-05 0.001323
## 1780 8.16e-05 0.002809
## 1781 6.19e-05 0.003227
## 1782 3.76e-04 0.004738
## 1783 8.55e-05 0.003178
## 1784 7.43e-05 0.003686
## 1785 5.09e-09 0.004368
## 1786 2.23e-05 0.001751
## 1787 1.02e-04 0.002773
## 1788 2.98e-05 0.005719
## 1789 9.13e-05 0.002610
## 1790 1.23e-06 0.003225
## 1791 2.87e-08 0.000914
## 1792 1.83e-04 0.001912
## 1793 2.46e-05 0.001118
## 1794 5.14e-05 0.007749
## 1795 3.83e-06 0.001499
## 1796 1.16e-03 0.003597
## 1797 6.82e-03 0.010177      *
## 1798 2.88e-05 0.002984
## 1799 7.48e-06 0.004086
## 1800 3.85e-05 0.001856
## 1801 3.13e-05 0.007148
## 1802 5.71e-05 0.003234

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## 1803 5.04e-05 0.002007
## 1804 3.43e-05 0.004507
## 1805 3.32e-07 0.001149
## 1806 1.25e-09 0.005878
## 1807 1.62e-04 0.003795
## 1808 2.47e-06 0.005364
## 1809 3.50e-04 0.004105
## 1810 1.25e-04 0.002279
## 1811 1.57e-07 0.001699
## 1812 2.21e-04 0.005146
## 1813 1.83e-04 0.011883 *
## 1814 3.78e-06 0.000738
## 1815 5.60e-05 0.003987
## 1816 2.46e-03 0.009516
## 1817 5.92e-03 0.039628 *
## 1818 2.41e-02 0.051570 *
## 1819 1.18e-05 0.003852
## 1820 1.22e-03 0.009642
## 1821 3.52e-04 0.005251
## 1822 1.14e-04 0.003218
## 1823 7.25e-05 0.004032
## 1824 4.02e-07 0.008079 *
## 1825 2.56e-05 0.005538
## 1826 1.31e-03 0.009812
## 1827 1.30e-03 0.003795
## 1828 3.62e-06 0.008088 *
## 1829 3.45e-04 0.004174
## 1830 3.68e-04 0.005929
## 1831 1.40e-03 0.008479
## 1832 8.08e-05 0.003249
## 1833 5.08e-04 0.005300
## 1834 2.96e-04 0.005851
## 1835 3.03e-04 0.002847
## 1836 8.26e-06 0.001011
## 1837 3.10e-07 0.002784
## 1838 1.92e-05 0.002223
## 1839 9.62e-06 0.003510
## 1840 6.78e-06 0.020270 *
## 1841 5.12e-05 0.001053
## 1842 4.26e-05 0.002101
## 1843 7.57e-05 0.015948 *
## 1844 9.33e-05 0.011732 *
## 1845 8.73e-05 0.001005
## 1846 6.63e-04 0.011260 *
## 1847 2.24e-05 0.002131
## 1848 1.08e-03 0.015049 *
## 1849 9.10e-03 0.030447 *
## 1850 4.22e-05 0.003451
## 1851 1.39e-06 0.001274
## 1852 6.50e-05 0.002221
## 1853 6.53e-04 0.002648
## 1854 1.56e-05 0.002703
## 1855 1.48e-05 0.002897
## 1856 1.04e-03 0.005005

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## 1857 6.82e-09 0.003071
## 1858 1.10e-03 0.002774 *
## 1859 3.13e-04 0.001630
## 1860 4.43e-05 0.001582
## 1861 2.53e-05 0.004009
## 1862 1.13e-05 0.002188
## 1863 1.40e-04 0.007024
## 1864 3.65e-06 0.003068
## 1865 1.51e-05 0.003729
## 1866 2.56e-03 0.007983
## 1867 4.28e-07 0.001990
## 1868 8.46e-03 0.013236 *
## 1869 4.50e-07 0.002067
## 1870 4.12e-06 0.004604
## 1871 8.82e-07 0.001501
## 1872 4.72e-05 0.002432
## 1873 3.47e-08 0.005110
## 1874 1.51e-05 0.001408
## 1875 2.06e-03 0.010419
## 1876 1.26e-04 0.003153
## 1877 5.88e-05 0.002094
## 1878 2.56e-04 0.003842
## 1879 7.27e-05 0.003214
## 1880 1.00e-04 0.001358
## 1881 1.28e-06 0.001722
## 1882 4.18e-04 0.009708
## 1883 1.12e-05 0.002708
## 1884 8.44e-04 0.009069
## 1885 2.29e-05 0.004440
## 1886 3.88e-05 0.002454
## 1887 8.48e-08 0.005212
## 1888 9.06e-04 0.019744 *
## 1889 1.02e-04 0.001781
## 1890 2.67e-05 0.002103
## 1891 4.65e-04 0.005814
## 1892 4.07e-04 0.007654
## 1893 2.58e-04 0.006970
## 1894 1.29e-10 0.002381
## 1895 4.41e-06 0.002052
## 1896 1.29e-04 0.003152
## 1897 5.71e-04 0.001738
## 1898 6.40e-04 0.011001 *
## 1899 2.71e-05 0.005745
## 1900 4.59e-05 0.002210
## 1901 4.78e-04 0.001871
## 1902 4.88e-04 0.002748
## 1903 9.02e-05 0.002269
## 1904 9.82e-04 0.004907
## 1905 1.01e-05 0.003539
## 1906 1.83e-05 0.004717
## 1907 1.18e-06 0.004190
## 1908 2.99e-05 0.004948
## 1909 1.26e-05 0.002178
## 1910 5.07e-05 0.002177

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## 1911 2.40e-04 0.004100
## 1912 4.79e-04 0.006783
## 1913 7.97e-05 0.007715
## 1914 1.62e-03 0.006177
## 1915 1.64e-04 0.002805
## 1916 2.69e-03 0.013184 *
## 1917 5.59e-06 0.002174
## 1918 4.35e-05 0.008774 *
## 1919 2.12e-05 0.004617
## 1920 1.95e-04 0.002049
## 1921 2.59e-04 0.003100
## 1922 5.61e-04 0.003738
## 1923 7.50e-04 0.003867
## 1924 1.58e-07 0.001654
## 1925 6.02e-04 0.007214
## 1926 2.07e-04 0.002874
## 1927 7.91e-05 0.005140
## 1928 8.19e-05 0.001600
## 1929 5.29e-04 0.003426
## 1930 1.44e-05 0.003180
## 1931 3.55e-06 0.002912
## 1932 7.46e-04 0.005209
## 1933 1.33e-04 0.008981 *
## 1934 2.28e-05 0.001311
## 1935 6.15e-05 0.003071
## 1936 2.25e-04 0.002295
## 1937 1.64e-05 0.001975
## 1938 3.35e-04 0.004469
## 1939 2.84e-04 0.003776
## 1940 7.22e-05 0.002664
## 1941 2.83e-06 0.005385
## 1942 2.87e-02 0.018898 *
## 1943 1.82e-06 0.002308
## 1944 3.33e-06 0.002258
## 1945 9.73e-04 0.042885 *
## 1946 3.53e-05 0.008900 *
## 1947 1.68e-04 0.004930
## 1948 3.69e-04 0.005455
## 1949 3.32e-04 0.002784
## 1950 2.28e-05 0.001246
## 1951 2.31e-06 0.002350
## 1952 9.97e-06 0.002292
## 1953 1.87e-04 0.004883
## 1954 1.10e-04 0.007142
## 1955 1.80e-04 0.003373
## 1956 2.52e-04 0.002445
## 1957 2.76e-06 0.003208
## 1958 1.27e-02 0.016596 *
## 1959 3.80e-04 0.002184
## 1960 1.47e-04 0.002736
## 1961 1.23e-04 0.003206
## 1962 2.62e-03 0.005781
## 1963 6.91e-05 0.001615
## 1964 1.57e-05 0.003791

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## 1965 1.10e-02 0.016565 *
## 1966 4.82e-04 0.004291
## 1967 2.72e-04 0.003096
## 1968 1.27e-05 0.010787 *
## 1969 1.15e-03 0.003783
## 1970 5.42e-06 0.002010
## 1971 1.03e-04 0.002370
## 1972 1.75e-05 0.003955
## 1973 4.51e-04 0.004990
## 1974 2.60e-05 0.004554
## 1975 8.20e-05 0.003134
## 1976 6.58e-05 0.003392
## 1977 4.41e-05 0.002657
## 1978 8.63e-05 0.001966
## 1979 1.65e-02 0.032810 *
## 1980 7.19e-05 0.004262
## 1981 7.44e-04 0.004683
## 1982 1.59e-05 0.002236
## 1983 5.04e-05 0.001587
## 1984 4.19e-04 0.006059
## 1985 4.51e-05 0.005831
## 1986 5.04e-07 0.001026
## 1987 3.74e-06 0.000796
## 1988 4.09e-09 0.002814
## 1989 5.82e-04 0.002662
## 1990 6.96e-06 0.001695
## 1991 2.15e-04 0.001406
## 1992 1.60e-06 0.007273
## 1993 3.36e-05 0.002260
## 1994 1.85e-05 0.003099
## 1995 3.00e-04 0.004152
## 1996 9.26e-09 0.005398
## 1997 8.58e-05 0.002440
## 1998 7.93e-06 0.001827
## 1999 2.76e-04 0.001523
## 2000 8.10e-05 0.003682
## 2001 7.15e-04 0.002718
## 2002 1.82e-07 0.001335
## 2003 1.60e-06 0.000852
## 2004 1.62e-06 0.001449
## 2005 5.48e-04 0.001721
## 2006 4.63e-06 0.002245
## 2007 5.40e-06 0.002438
## 2008 7.31e-05 0.002198
## 2009 1.12e-03 0.006148
## 2010 4.57e-04 0.001355
## 2011 3.35e-04 0.002200
## 2012 1.52e-03 0.004826
## 2013 1.60e-05 0.001988
## 2014 9.90e-05 0.002935
## 2015 1.10e-04 0.000972
## 2016 1.98e-03 0.003742 *
## 2017 2.19e-05 0.001405
## 2018 2.13e-04 0.001118

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## 2019 1.16e-04 0.001445
## 2020 8.94e-05 0.004339
## 2021 8.09e-04 0.005062
## 2022 1.63e-03 0.003760      *
## 2023 4.12e-07 0.004989
## 2024 1.81e-05 0.005385
## 2025 1.72e-06 0.002064
## 2026 2.75e-05 0.005653
## 2027 1.96e-03 0.005383
## 2028 5.90e-06 0.001483
## 2029 2.39e-04 0.001008
## 2030 3.44e-05 0.003875
## 2031 7.38e-05 0.003408
## 2032 1.54e-06 0.002249
## 2033 5.89e-05 0.002171
## 2034 2.84e-07 0.005193
## 2035 7.68e-04 0.006678
## 2036 1.16e-03 0.002206      *
## 2037 3.01e-06 0.000982
## 2038 7.71e-05 0.001040
## 2039 1.97e-05 0.004605
## 2040 1.80e-03 0.005500
## 2041 5.75e-07 0.002241
## 2042 6.63e-06 0.005253
## 2043 4.71e-04 0.002116
## 2044 6.94e-05 0.001876
## 2045 2.09e-05 0.002411
## 2046 4.13e-04 0.001596
## 2047 1.64e-03 0.005997
## 2048 1.55e-03 0.008954
## 2049 1.72e-05 0.001728
## 2050 5.45e-04 0.004943
## 2051 4.91e-04 0.001452
## 2052 1.37e-04 0.001478
## 2053 3.32e-06 0.004171
## 2054 1.16e-04 0.002150
## 2055 1.38e-05 0.002577
## 2056 3.62e-04 0.004398
## 2057 1.38e-04 0.001839
## 2058 2.33e-06 0.001450
## 2059 2.58e-04 0.004891
## 2060 5.34e-04 0.005257
## 2061 2.05e-04 0.002829
## 2062 2.08e-04 0.002785
## 2063 1.06e-07 0.004674
## 2064 2.03e-04 0.007196
## 2065 7.03e-04 0.002081
## 2066 1.37e-02 0.015791      *
## 2067 1.81e-03 0.008161
## 2068 3.39e-08 0.005445
## 2069 6.29e-04 0.002304
## 2070 3.77e-05 0.001480
## 2071 8.66e-04 0.003157
## 2072 4.50e-04 0.003009

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## 2073 1.62e-05 0.002546
## 2074 1.54e-04 0.004465
## 2075 1.06e-04 0.002677
## 2076 6.01e-04 0.001761
## 2077 2.81e-04 0.003033
## 2078 6.10e-04 0.010341
## 2079 2.08e-03 0.008988
## 2080 1.55e-03 0.004269
## 2081 2.43e-05 0.003047
## 2082 6.85e-05 0.001683
## 2083 4.55e-07 0.006426
## 2084 1.80e-07 0.002562
## 2085 1.27e-05 0.002420
## 2086 8.67e-05 0.004414
## 2087 1.33e-04 0.029141      *
## 2088 3.41e-07 0.002274
## 2089 1.39e-04 0.004123
## 2090 8.90e-04 0.005329
## 2091 1.16e-05 0.002322
## 2092 6.77e-07 0.002104
## 2093 1.47e-06 0.001689
## 2094 2.41e-05 0.001935
## 2095 5.00e-05 0.002010
## 2096 2.09e-04 0.001646
## 2097 1.27e-05 0.001492
## 2098 4.63e-05 0.003203
## 2099 5.07e-06 0.002051
## 2100 1.26e-04 0.001197
## 2101 1.46e-04 0.008307
## 2102 1.24e-05 0.001552
## 2103 2.16e-05 0.001634
## 2104 5.96e-07 0.001930
## 2105 2.50e-05 0.001091
## 2106 2.13e-04 0.004166
## 2107 2.00e-04 0.002494
## 2108 5.94e-05 0.003022
## 2109 1.44e-06 0.001577
## 2110 1.43e-06 0.000767
## 2111 5.72e-04 0.003243
## 2112 3.01e-04 0.006172
## 2113 1.40e-04 0.002670
## 2114 2.21e-04 0.003745
## 2115 2.00e-05 0.002376
## 2116 7.56e-04 0.005593
## 2117 3.27e-04 0.004118
## 2118 1.02e-05 0.002685
## 2119 1.07e-04 0.002037
## 2120 1.49e-05 0.002188
## 2121 3.04e-05 0.001982
## 2122 2.05e-05 0.001865
## 2123 1.22e-04 0.002926
## 2124 4.09e-06 0.002134
## 2125 2.40e-06 0.002660
## 2126 5.37e-06 0.000910

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## 2127 1.27e-04 0.001781
## 2128 6.31e-05 0.006787
## 2129 4.03e-05 0.003651
## 2130 6.56e-04 0.003836
## 2131 3.28e-07 0.001759
## 2132 5.31e-05 0.003899
## 2133 7.19e-08 0.001867
## 2134 2.47e-05 0.003583
## 2135 3.68e-04 0.001870
## 2136 2.50e-06 0.002504
## 2137 5.94e-05 0.001274
## 2138 4.67e-05 0.001443
## 2139 3.74e-04 0.005273
## 2140 7.48e-05 0.005615
## 2141 2.04e-05 0.001167
## 2142 1.17e-06 0.001792
## 2143 8.66e-06 0.001402
## 2144 7.91e-05 0.005276
## 2145 7.54e-04 0.005602
## 2146 2.88e-06 0.002554
## 2147 6.19e-05 0.004141
## 2148 1.60e-04 0.002367
## 2149 1.93e-05 0.006135
## 2150 3.15e-07 0.002464
## 2151 1.16e-04 0.001551
## 2152 1.19e-04 0.001025
## 2153 3.89e-05 0.006569
## 2154 2.69e-04 0.004908
## 2155 7.76e-04 0.004761
## 2156 2.11e-04 0.002054
## 2157 3.44e-03 0.007018      *
## 2158 1.89e-05 0.001279
## 2159 2.93e-05 0.002554
## 2160 4.31e-04 0.009351
## 2161 8.44e-04 0.006405
## 2162 1.70e-05 0.002870
## 2163 1.41e-04 0.003319
## 2164 5.90e-04 0.006642
## 2165 3.74e-04 0.002406
## 2166 4.26e-04 0.003669
## 2167 8.06e-04 0.004272
## 2168 9.19e-06 0.002922
## 2169 4.96e-05 0.002120
## 2170 3.99e-05 0.001321
## 2171 2.70e-04 0.003331
## 2172 1.74e-05 0.004331
## 2173 8.33e-05 0.002193
## 2174 1.18e-03 0.001615      *
## 2175 5.50e-05 0.001506
## 2176 4.36e-03 0.006966      *
## 2177 6.15e-06 0.002043
## 2178 6.72e-04 0.004265
## 2179 3.53e-05 0.001046
## 2180 3.07e-04 0.004018

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## 2181 1.16e-04 0.001607
## 2182 7.08e-06 0.000818
## 2183 2.12e-04 0.001073
## 2184 2.77e-04 0.001970
## 2185 1.61e-04 0.001259
## 2186 1.17e-06 0.001063
## 2187 8.30e-05 0.001815
## 2188 4.87e-05 0.000715
## 2189 3.65e-06 0.003833
## 2190 1.20e-04 0.001778
## 2191 2.57e-05 0.002172
## 2192 2.24e-06 0.002484
## 2193 5.84e-07 0.001701
## 2194 7.90e-06 0.001546
## 2195 1.11e-04 0.001198
## 2196 2.86e-04 0.001320
## 2197 2.37e-04 0.001430
## 2198 1.16e-05 0.002021
## 2199 3.97e-05 0.001125
## 2200 4.69e-05 0.001706
## 2201 2.07e-07 0.001433
## 2202 7.58e-07 0.001614
## 2203 5.44e-05 0.001097
## 2204 5.19e-04 0.021971      *
## 2205 1.06e-04 0.003058
## 2206 4.81e-07 0.001422
## 2207 5.86e-05 0.000951
## 2208 1.19e-05 0.001158
## 2209 1.85e-04 0.002910
## 2210 4.85e-05 0.002016
## 2211 1.84e-05 0.002725
## 2212 9.76e-07 0.001839
## 2213 8.59e-06 0.007831
## 2214 1.84e-06 0.001083
## 2215 8.04e-05 0.001296
## 2216 1.54e-04 0.001779
## 2217 1.05e-04 0.002359
## 2218 5.17e-06 0.001964
## 2219 3.45e-05 0.000995
## 2220 1.23e-04 0.001650
## 2221 9.15e-06 0.000982
## 2222 2.66e-04 0.002073
## 2223 1.25e-05 0.001389
## 2224 4.13e-06 0.001168
## 2225 2.40e-06 0.001637
## 2226 1.40e-07 0.000794
## 2227 1.12e-04 0.000999
## 2228 4.00e-06 0.001403
## 2229 2.00e-04 0.001353
## 2230 2.66e-04 0.001163
## 2231 2.40e-07 0.000896
## 2232 2.23e-04 0.002296
## 2233 7.33e-07 0.001578
## 2234 3.46e-05 0.001700

```

## 2235 3.67e-04 0.002453  
## 2236 1.47e-05 0.001018  
## 2237 9.80e-05 0.000848  
## 2238 4.98e-04 0.001769  
## 2239 4.41e-05 0.006669  
## 2240 1.50e-05 0.001412  
## 2241 5.36e-06 0.001341  
## 2242 3.11e-05 0.001774  
## 2243 1.39e-04 0.001737  
## 2244 7.07e-05 0.001994  
## 2245 1.02e-05 0.000726  
## 2246 6.19e-06 0.001763  
## 2247 9.72e-07 0.001864  
## 2248 5.06e-06 0.002423  
## 2249 6.71e-05 0.001516  
## 2250 2.75e-06 0.001104  
## 2251 2.19e-04 0.001164  
## 2252 1.09e-05 0.001314  
## 2253 4.20e-05 0.001732  
## 2254 1.74e-04 0.002822  
## 2255 9.83e-05 0.000879  
## 2256 3.68e-05 0.001289  
## 2257 1.84e-05 0.002255  
## 2258 7.09e-06 0.001912  
## 2259 7.44e-06 0.002295  
## 2260 9.43e-06 0.001386  
## 2261 2.82e-04 0.003733  
## 2262 3.80e-05 0.001297  
## 2263 5.67e-06 0.003112  
## 2264 3.96e-05 0.001822  
## 2265 2.33e-05 0.002017  
## 2266 4.57e-05 0.001859  
## 2267 6.32e-04 0.002011  
## 2268 2.38e-04 0.001979  
## 2269 2.56e-04 0.002010  
## 2270 7.66e-04 0.003171  
## 2271 2.06e-05 0.001210  
## 2272 1.22e-04 0.003058  
## 2273 1.35e-06 0.001297  
## 2274 1.17e-06 0.001077  
## 2275 4.31e-05 0.001388  
## 2276 1.16e-04 0.001090  
## 2277 3.05e-04 0.003092  
## 2278 4.40e-04 0.004888  
## 2279 3.29e-04 0.002422  
## 2280 2.81e-05 0.001492  
## 2281 9.73e-05 0.001469  
## 2282 2.38e-04 0.002837  
## 2283 2.76e-04 0.006762  
## 2284 5.29e-04 0.005761  
## 2285 1.28e-04 0.006021  
## 2286 1.54e-03 0.008621  
## 2287 1.45e-03 0.011343  
## 2288 3.01e-05 0.005658

```

## 2289 1.69e-06 0.002182
## 2290 2.22e-04 0.006623
## 2291 1.01e-06 0.004233
## 2292 9.90e-08 0.009751 *
## 2293 1.73e-07 0.006441
## 2294 3.02e-05 0.002021
## 2295 2.21e-04 0.004571
## 2296 5.15e-04 0.008380
## 2297 6.72e-04 0.004379
## 2298 1.77e-04 0.003210
## 2299 2.36e-04 0.001131
## 2300 4.78e-05 0.002244
## 2301 1.05e-04 0.004316
## 2302 5.20e-08 0.006075
## 2303 3.99e-04 0.005778
## 2304 8.51e-06 0.002939
## 2305 1.08e-04 0.011074 *
## 2306 9.02e-04 0.011222
## 2307 6.64e-04 0.003112
## 2308 1.94e-05 0.002678
## 2309 8.85e-05 0.006050
## 2310 1.05e-05 0.005173
## 2311 2.35e-04 0.004847
## 2312 5.56e-04 0.002452
## 2313 5.45e-05 0.028052 *
## 2314 6.61e-04 0.097442 *
## 2315 4.90e-03 0.071611 *
## 2316 6.62e-04 0.042027 *
## 2317 1.01e-04 0.001310
## 2318 5.08e-03 0.005487 *
## 2319 3.21e-05 0.002540
## 2320 1.06e-04 0.003355
## 2321 4.78e-04 0.002829
## 2322 9.83e-05 0.002740
## 2323 1.62e-03 0.002613 *
## 2324 6.77e-04 0.004434
## 2325 5.11e-05 0.002018
## 2326 4.18e-04 0.002342
## 2327 1.54e-04 0.003589
## 2328 8.93e-04 0.001771 *
## 2329 4.11e-04 0.002228
## 2330 4.58e-04 0.003454
## 2331 3.06e-04 0.003848
## 2332 6.07e-05 0.001478
## 2333 1.46e-04 0.003930
## 2334 1.10e-05 0.003124
## 2335 5.68e-04 0.006036
## 2336 3.46e-04 0.004752
## 2337 5.30e-04 0.005916
## 2338 7.43e-04 0.005349
## 2339 5.20e-05 0.003039
## 2340 5.66e-04 0.004536
## 2341 9.81e-04 0.004639
## 2342 2.05e-05 0.001326

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```

## 2343 1.37e-04 0.006118
## 2344 1.16e-03 0.003400
## 2345 4.73e-04 0.006347
## 2346 1.18e-03 0.005736
## 2347 6.06e-03 0.022728 *
## 2348 3.67e-06 0.003623
## 2349 1.77e-06 0.001009
## 2350 4.67e-04 0.004776
## 2351 1.60e-03 0.004056
## 2352 2.06e-04 0.002772
## 2353 2.05e-03 0.004376 *
## 2354 2.95e-04 0.002953
## 2355 1.85e-03 0.003922 *
## 2356 4.84e-05 0.001845
## 2357 7.13e-04 0.002678
## 2358 1.34e-04 0.002875
## 2359 1.74e-05 0.000759
## 2360 4.10e-04 0.004985
## 2361 2.00e-05 0.001686
## 2362 2.92e-06 0.002959
## 2363 1.67e-04 0.001933
## 2364 2.36e-05 0.001144
## 2365 3.65e-04 0.004662
## 2366 1.60e-05 0.001528
## 2367 1.80e-04 0.002669
## 2368 4.20e-04 0.008833
## 2369 2.19e-06 0.002666
## 2370 7.45e-05 0.000939
## 2371 1.13e-06 0.001226
## 2372 3.26e-06 0.001510
## 2373 2.88e-05 0.004934
## 2374 2.53e-05 0.004072
## 2375 1.80e-06 0.001499
## 2376 7.89e-05 0.001041
## 2377 6.29e-06 0.003969
## 2378 1.32e-05 0.002164
## 2379 3.40e-06 0.002553
## 2380 8.97e-06 0.005833
## 2381 8.82e-06 0.001357
## 2382 1.19e-05 0.001956
## 2383 1.63e-03 0.007526
## 2384 1.79e-08 0.002760
## 2385 1.47e-04 0.004542
## 2386 1.00e-03 0.002995
## 2387 9.70e-05 0.002291
## 2388 5.78e-05 0.001219
## 2389 4.74e-08 0.001980
## 2390 4.75e-05 0.002819
## 2391 1.21e-04 0.005832
## 2392 2.09e-04 0.007417
## 2393 2.94e-07 0.001831
## 2394 3.57e-04 0.002037
## 2395 3.12e-03 0.011869 *
## 2396 1.02e-04 0.002443

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```

## 2397 2.21e-04 0.004244
## 2398 1.26e-04 0.002090
## 2399 8.94e-05 0.001685
## 2400 1.29e-05 0.003707
## 2401 2.26e-08 0.001834
## 2402 3.60e-06 0.003318
## 2403 2.68e-04 0.001936
## 2404 3.29e-04 0.002350
## 2405 7.74e-05 0.003480
## 2406 3.31e-07 0.006201
## 2407 1.51e-04 0.004975
## 2408 4.77e-04 0.005019
## 2409 1.93e-04 0.001882
## 2410 7.00e-06 0.004212
## 2411 2.72e-04 0.004094
## 2412 4.54e-04 0.003919
## 2413 6.66e-05 0.003477
## 2414 2.83e-05 0.005704
## 2415 6.02e-04 0.003686
## 2416 4.71e-05 0.006355
## 2417 1.59e-04 0.003586
## 2418 9.78e-04 0.003579
## 2419 2.74e-04 0.004020
## 2420 4.45e-04 0.005001
## 2421 2.37e-05 0.005358
## 2422 2.96e-04 0.002112
## 2423 4.01e-04 0.004211
## 2424 2.72e-04 0.002679
## 2425 2.81e-05 0.003429
## 2426 2.23e-03 0.004584 *
## 2427 6.07e-04 0.001677
## 2428 1.52e-04 0.002596
## 2429 2.99e-05 0.002192
## 2430 1.40e-04 0.003079
## 2431 1.70e-05 0.003253
## 2432 5.54e-05 0.002681
## 2433 3.42e-04 0.004353
## 2434 2.01e-04 0.001341
## 2435 4.78e-05 0.003364
## 2436 1.52e-03 0.005284
## 2437 9.25e-05 0.002977
## 2438 2.66e-04 0.001999
## 2439 1.03e-03 0.003175
## 2440 1.35e-03 0.004314
## 2441 5.40e-05 0.003438
## 2442 8.85e-04 0.005997
## 2443 3.63e-04 0.004029
## 2444 7.77e-03 0.007830 *
## 2445 5.95e-07 0.004967
## 2446 2.32e-04 0.003795
## 2447 1.47e-04 0.004750
## 2448 5.30e-05 0.003906
## 2449 8.74e-05 0.004444
## 2450 1.39e-04 0.003064

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```

## 2451 2.50e-04 0.002481
## 2452 3.35e-05 0.018750      *
## 2453 5.92e-04 0.005142
## 2454 3.76e-06 0.002508
## 2455 2.38e-04 0.004879
## 2456 1.31e-10 0.001800
## 2457 5.70e-05 0.001092
## 2458 2.82e-05 0.003683
## 2459 5.70e-05 0.001939
## 2460 1.44e-06 0.001465
## 2461 1.58e-04 0.002504
## 2462 1.01e-05 0.002714
## 2463 5.57e-07 0.000971
## 2464 7.51e-04 0.003703
## 2465 2.05e-04 0.002701
## 2466 1.59e-05 0.001110
## 2467 7.67e-06 0.002061
## 2468 6.98e-05 0.002488
## 2469 1.11e-06 0.001621
## 2470 4.60e-05 0.001343
## 2471 6.35e-05 0.000904
## 2472 1.86e-05 0.001382
## 2473 1.51e-05 0.001196
## 2474 9.97e-06 0.001475
## 2475 2.11e-05 0.002837
## 2476 1.41e-04 0.001485
## 2477 1.25e-04 0.001948
## 2478 1.87e-05 0.002535
## 2479 9.99e-06 0.001526
## 2480 2.82e-04 0.001642
## 2481 8.62e-05 0.001585
## 2482 7.30e-05 0.001328
## 2483 9.48e-08 0.001919
## 2484 8.06e-06 0.001523
## 2485 2.32e-04 0.002090
## 2486 1.33e-05 0.002227
## 2487 2.89e-05 0.003994
## 2488 1.13e-07 0.001621
## 2489 1.16e-04 0.001560
## 2490 1.50e-06 0.002042
## 2491 4.68e-05 0.001672
## 2492 4.25e-04 0.003721
## 2493 1.20e-04 0.001215
## 2494 1.95e-05 0.001489
## 2495 8.88e-05 0.001087
## 2496 5.20e-05 0.001285
## 2497 1.79e-06 0.000937
## 2498 7.59e-05 0.001279
## 2499 3.33e-05 0.001335
## 2500 3.26e-04 0.003295
## 2501 9.13e-04 0.003774
## 2502 1.98e-08 0.001121
## 2503 1.67e-04 0.002374
## 2504 2.93e-05 0.001446

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## 2505 5.33e-05 0.003673
## 2506 8.20e-05 0.001076
## 2507 6.05e-08 0.001002
## 2508 6.24e-05 0.001268
## 2509 5.57e-05 0.001439
## 2510 3.87e-07 0.008751      *
## 2511 1.70e-05 0.001345
## 2512 2.57e-05 0.001274
## 2513 1.09e-05 0.001492
## 2514 1.58e-05 0.002070
## 2515 9.76e-05 0.001180
## 2516 4.71e-05 0.002406
## 2517 7.08e-05 0.002317
## 2518 8.53e-07 0.004060
## 2519 1.86e-05 0.003266
## 2520 4.36e-05 0.001780
## 2521 3.91e-05 0.002709
## 2522 1.35e-04 0.001713
## 2523 2.14e-04 0.003744
## 2524 2.53e-05 0.001797
## 2525 2.52e-04 0.001417
## 2526 6.59e-04 0.005341
## 2527 1.01e-05 0.001741
## 2528 2.81e-05 0.001363
## 2529 3.71e-05 0.002263
## 2530 1.24e-05 0.002786
## 2531 1.10e-04 0.002953
## 2532 6.85e-04 0.001876
## 2533 2.15e-06 0.002286
## 2534 1.40e-05 0.003037
## 2535 7.00e-05 0.001200
## 2536 2.20e-06 0.005006
## 2537 6.65e-07 0.001328
## 2538 4.99e-04 0.004382
## 2539 7.47e-05 0.004259
## 2540 5.84e-04 0.006262
## 2541 1.18e-03 0.006119
## 2542 2.43e-04 0.004282
## 2543 2.00e-04 0.004391
## 2544 1.71e-04 0.004351
## 2545 3.46e-04 0.007527
## 2546 3.01e-03 0.010274      *
## 2547 9.76e-06 0.004093
## 2548 8.99e-05 0.006033
## 2549 5.10e-03 0.008979      *
## 2550 1.79e-04 0.004912
## 2551 2.44e-08 0.003311
## 2552 4.25e-04 0.002401
## 2553 2.61e-05 0.005205
## 2554 1.74e-03 0.007180
## 2555 2.22e-06 0.002109
## 2556 4.71e-08 0.001727
## 2557 1.73e-03 0.005672
## 2558 3.31e-05 0.001705

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## 2559 1.90e-04 0.008309
## 2560 5.32e-04 0.008397
## 2561 2.24e-06 0.001184
## 2562 2.38e-06 0.005441
## 2563 3.74e-03 0.006180      *
## 2564 2.60e-03 0.007699
## 2565 6.89e-04 0.009161
## 2566 5.13e-05 0.006440
## 2567 7.62e-04 0.008764
## 2568 2.36e-04 0.004885
## 2569 1.26e-05 0.003918
## 2570 7.34e-07 0.002201
## 2571 2.76e-05 0.003231
## 2572 9.21e-05 0.001379
## 2573 6.51e-04 0.020437      *
## 2574 1.26e-04 0.002014
## 2575 7.91e-05 0.002947
## 2576 6.45e-05 0.007021
## 2577 5.66e-05 0.002622
## 2578 2.01e-06 0.001413
## 2579 1.69e-03 0.014845      *
## 2580 9.33e-04 0.003092
## 2581 3.93e-04 0.004108
## 2582 2.11e-05 0.006760
## 2583 2.75e-06 0.002375
## 2584 3.19e-04 0.005574
## 2585 3.10e-04 0.005375
## 2586 2.01e-07 0.002405
## 2587 1.02e-03 0.006845
## 2588 5.93e-05 0.002358
## 2589 1.81e-04 0.003193
## 2590 1.77e-03 0.002889      *
## 2591 1.22e-04 0.003170
## 2592 8.96e-05 0.004967
## 2593 1.08e-03 0.003021
## 2594 2.85e-03 0.016680      *
## 2595 9.36e-07 0.001373
## 2596 3.07e-03 0.006743      *
## 2597 5.94e-04 0.005291
## 2598 4.56e-03 0.010239      *
## 2599 9.19e-05 0.004972
## 2600 4.58e-03 0.004984      *
## 2601 4.56e-04 0.005534
## 2602 1.59e-03 0.006085
## 2603 9.59e-05 0.004409
## 2604 1.29e-06 0.001809
## 2605 2.10e-04 0.001509
## 2606 2.23e-04 0.002503
## 2607 5.00e-06 0.003773
## 2608 6.54e-05 0.004672
## 2609 2.91e-06 0.001474
## 2610 6.34e-04 0.002348
## 2611 3.50e-04 0.005079
## 2612 1.08e-06 0.003120

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## 2613 4.43e-05 0.001657
## 2614 1.02e-07 0.001733
## 2615 1.92e-05 0.004183
## 2616 1.07e-04 0.001502
## 2617 4.29e-04 0.006168
## 2618 7.22e-04 0.009667
## 2619 1.72e-05 0.001212
## 2620 2.68e-04 0.001665
## 2621 1.22e-05 0.003321
## 2622 4.97e-05 0.002151
## 2623 7.58e-07 0.001470
## 2624 1.30e-04 0.004234
## 2625 1.65e-05 0.003042
## 2626 6.33e-03 0.007342      *
## 2627 9.14e-04 0.007057
## 2628 8.00e-05 0.003797
## 2629 1.46e-04 0.002377
## 2630 9.41e-06 0.003983
## 2631 4.70e-04 0.006124
## 2632 5.12e-07 0.003513
## 2633 7.48e-04 0.006443
## 2634 3.15e-06 0.001538
## 2635 5.21e-05 0.002235
## 2636 1.05e-03 0.004400
## 2637 3.46e-03 0.003486      *
## 2638 1.04e-05 0.002400
## 2639 1.63e-04 0.005359
## 2640 6.15e-04 0.004778
## 2641 4.88e-05 0.003118
## 2642 3.59e-03 0.005514      *
## 2643 8.63e-04 0.006605
## 2644 6.79e-06 0.003326
## 2645 1.87e-05 0.004769
## 2646 1.72e-02 0.011532      *
## 2647 1.85e-04 0.002629
## 2648 2.23e-05 0.001678
## 2649 1.95e-07 0.003158
## 2650 9.29e-05 0.005461
## 2651 1.25e-05 0.003633
## 2652 3.84e-04 0.005499
## 2653 5.16e-06 0.001261
## 2654 2.07e-06 0.004160
## 2655 7.63e-04 0.002701
## 2656 5.72e-05 0.003281
## 2657 1.98e-03 0.008912
## 2658 1.85e-04 0.006352
## 2659 7.77e-03 0.006780      *
## 2660 7.80e-07 0.006340
## 2661 5.28e-04 0.001611
## 2662 6.44e-05 0.002935
## 2663 9.33e-05 0.003508
## 2664 1.01e-04 0.001435
## 2665 2.45e-04 0.004003
## 2666 1.33e-05 0.004346

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## 2667 1.33e-05 0.004072
## 2668 6.18e-04 0.004816
## 2669 2.10e-03 0.004002 *
## 2670 3.20e-04 0.002723
## 2671 7.92e-05 0.009123 *
## 2672 1.18e-05 0.006875
## 2673 6.43e-04 0.002662
## 2674 8.80e-03 0.010903 *
## 2675 3.47e-06 0.001180
## 2676 8.75e-08 0.003342
## 2677 7.40e-05 0.005178
## 2678 7.91e-07 0.002271
## 2679 1.50e-06 0.001602
## 2680 2.51e-04 0.006029
## 2681 6.67e-05 0.002920
## 2682 1.97e-03 0.014545 *
## 2683 6.89e-09 0.005204
## 2684 3.25e-03 0.010846 *
## 2685 9.21e-08 0.001635
## 2686 7.20e-04 0.005720
## 2687 4.37e-05 0.001153
## 2688 2.13e-04 0.007974
## 2689 7.34e-04 0.011828 *
## 2690 5.30e-06 0.001376
## 2691 2.63e-05 0.005244
## 2692 2.10e-08 0.001630
## 2693 3.24e-05 0.001682
## 2694 7.68e-05 0.001586
## 2695 8.31e-04 0.008205
## 2696 4.18e-03 0.007398 *
## 2697 5.28e-05 0.004948
## 2698 1.59e-08 0.001010
## 2699 3.93e-04 0.015589 *
## 2700 1.59e-04 0.004456
## 2701 1.04e-05 0.006745
## 2702 1.50e-05 0.001254
## 2703 7.14e-05 0.003137
## 2704 1.00e-05 0.001193
## 2705 1.23e-05 0.001906
## 2706 4.00e-04 0.010113 *
## 2707 5.57e-06 0.002484
## 2708 8.59e-05 0.002033
## 2709 1.60e-07 0.002710
## 2710 4.75e-04 0.002448
## 2711 3.69e-04 0.008624
## 2712 9.14e-05 0.007585
## 2713 7.98e-05 0.001527
## 2714 2.48e-01 0.084681 *
## 2715 3.38e-06 0.005215
## 2716 4.22e-03 0.015649 *
## 2717 3.90e-06 0.001809
## 2718 2.85e-03 0.013416 *
## 2719 1.73e-04 0.003759
## 2720 3.75e-03 0.010197 *

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## 2721 1.64e-04 0.004911
## 2722 8.81e-05 0.004046
## 2723 4.83e-04 0.005195
## 2724 7.08e-03 0.027806 *
## 2725 1.32e-07 0.003963
## 2726 7.34e-03 0.010818 *
## 2727 9.40e-03 0.010551 *
## 2728 1.17e-05 0.005213
## 2729 6.68e-05 0.019287 *
## 2730 3.06e-04 0.008213
## 2731 2.07e-04 0.002943
## 2732 7.95e-04 0.006544
## 2733 4.53e-04 0.016072 *
## 2734 2.56e-03 0.011503
## 2735 9.33e-08 0.002997
## 2736 9.19e-04 0.003703
## 2737 3.81e-05 0.005248
## 2738 1.08e-06 0.003885
## 2739 7.86e-05 0.002025
## 2740 1.44e-05 0.005946
## 2741 2.66e-03 0.010400
## 2742 7.41e-05 0.001631
## 2743 3.03e-05 0.003414
## 2744 1.83e-03 0.009937
## 2745 1.91e-06 0.003316
## 2746 3.62e-04 0.003814
## 2747 1.65e-04 0.010091 *
## 2748 2.30e-05 0.003081
## 2749 1.19e-03 0.009157
## 2750 2.95e-05 0.002012
## 2751 2.67e-04 0.005983
## 2752 8.78e-06 0.001743
## 2753 1.40e-05 0.003191
## 2754 2.07e-04 0.001090
## 2755 4.29e-05 0.001019
## 2756 2.00e-05 0.001269
## 2757 1.05e-03 0.006452
## 2758 8.61e-07 0.000751
## 2759 1.19e-03 0.009962
## 2760 1.56e-04 0.004533
## 2761 1.72e-04 0.004805
## 2762 6.61e-05 0.002321
## 2763 4.46e-05 0.001178
## 2764 8.93e-05 0.005406
## 2765 9.71e-05 0.002927
## 2766 1.00e-04 0.004172
## 2767 2.70e-05 0.003444
## 2768 5.53e-07 0.000729
## 2769 3.35e-05 0.003194
## 2770 1.36e-04 0.002438
## 2771 9.89e-04 0.006320
## 2772 4.99e-05 0.001253
## 2773 5.59e-05 0.001779
## 2774 7.36e-05 0.006594

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## 2775 2.27e-03 0.007693
## 2776 4.00e-04 0.005954
## 2777 7.95e-05 0.006132
## 2778 6.59e-07 0.002395
## 2779 4.49e-07 0.002014
## 2780 3.35e-05 0.004282
## 2781 1.14e-04 0.004159
## 2782 4.24e-04 0.002115
## 2783 1.14e-05 0.008176 *
## 2784 1.39e-05 0.003196
## 2785 2.34e-03 0.019064 *
## 2786 1.94e-05 0.003116
## 2787 2.70e-04 0.002459
## 2788 7.26e-04 0.002736
## 2789 1.51e-03 0.003399 *
## 2790 7.33e-04 0.019507 *
## 2791 1.15e-05 0.006701
## 2792 3.70e-05 0.002856
## 2793 9.47e-06 0.004424
## 2794 4.97e-04 0.003978
## 2795 5.15e-04 0.004251
## 2796 3.33e-04 0.004146
## 2797 2.16e-04 0.004460
## 2798 3.31e-04 0.005480
## 2799 1.23e-04 0.003456
## 2800 3.45e-04 0.006461
## 2801 1.70e-04 0.002317
## 2802 5.34e-04 0.002011
## 2803 2.49e-03 0.009996
## 2804 2.12e-04 0.004384
## 2805 4.86e-04 0.004103
## 2806 2.19e-07 0.002674
## 2807 1.33e-05 0.002139
## 2808 5.07e-04 0.004435
## 2809 2.86e-03 0.003837 *
## 2810 5.32e-04 0.001719
## 2811 3.00e-03 0.006225 *
## 2812 4.11e-04 0.002729
## 2813 2.54e-05 0.002251
## 2814 2.84e-04 0.006193
## 2815 7.12e-05 0.001415
## 2816 1.13e-05 0.002307
## 2817 2.35e-05 0.001421
## 2818 3.21e-05 0.001408
## 2819 7.61e-04 0.002421
## 2820 5.08e-05 0.005069
## 2821 5.15e-05 0.003450
## 2822 1.13e-03 0.004426
## 2823 2.81e-05 0.003608
## 2824 1.34e-03 0.005545
## 2825 5.38e-04 0.003100
## 2826 2.71e-05 0.014077 *
## 2827 1.72e-04 0.004606
## 2828 1.06e-05 0.001876

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## 2829 6.58e-05 0.002583
## 2830 5.77e-05 0.001780
## 2831 2.17e-04 0.001626
## 2832 6.00e-06 0.001276
## 2833 6.42e-08 0.001289
## 2834 4.14e-04 0.006505
## 2835 1.49e-03 0.005912
## 2836 4.18e-05 0.000897
## 2837 4.22e-07 0.001410
## 2838 9.94e-05 0.004328
## 2839 1.39e-04 0.003441
## 2840 1.20e-04 0.001825
## 2841 8.61e-05 0.004347
## 2842 7.91e-04 0.001835      *
## 2843 5.88e-05 0.003994
## 2844 1.71e-04 0.004816
## 2845 7.40e-04 0.005108
## 2846 6.60e-05 0.004870
## 2847 5.35e-06 0.001026
## 2848 2.63e-06 0.001233
## 2849 3.66e-05 0.001926
## 2850 1.35e-06 0.001525
## 2851 1.67e-04 0.001353
## 2852 2.08e-06 0.002676
## 2853 8.93e-05 0.002018
## 2854 2.11e-06 0.001228
## 2855 1.42e-04 0.001331
## 2856 8.97e-06 0.001573
## 2857 5.55e-05 0.002777
## 2858 9.23e-04 0.001934      *
## 2859 7.90e-06 0.001074
## 2860 1.15e-04 0.007009
## 2861 1.06e-04 0.002166
## 2862 2.58e-05 0.001244
## 2863 5.49e-07 0.001523
## 2864 1.01e-03 0.008116
## 2865 3.13e-08 0.002075
## 2866 1.05e-06 0.001556
## 2867 3.72e-05 0.001644
## 2868 5.91e-06 0.001671
## 2869 4.88e-05 0.001332
## 2870 1.46e-05 0.006837
## 2871 2.02e-05 0.001383
## 2872 3.45e-06 0.005279
## 2873 2.96e-06 0.001921
## 2874 1.21e-05 0.002960
## 2875 1.30e-07 0.001808
## 2876 1.77e-04 0.003632
## 2877 5.99e-05 0.001101
## 2878 1.72e-04 0.002948
## 2879 1.57e-05 0.001540
## 2880 4.20e-05 0.005851
## 2881 1.10e-04 0.002744
## 2882 6.54e-06 0.003156

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## 2883 3.88e-06 0.002260
## 2884 4.27e-07 0.001587
## 2885 2.49e-05 0.001606
## 2886 9.04e-05 0.001813
## 2887 7.65e-05 0.001642
## 2888 1.27e-05 0.002531
## 2889 1.65e-04 0.001368
## 2890 1.41e-04 0.001831
## 2891 3.71e-05 0.001585
## 2892 8.76e-05 0.003395
## 2893 1.98e-04 0.001889
## 2894 2.43e-06 0.001039
## 2895 8.44e-07 0.001009
## 2896 2.06e-06 0.001461
## 2897 2.85e-05 0.001863
## 2898 4.53e-05 0.000977
## 2899 8.19e-05 0.002709
## 2900 1.96e-05 0.001508
## 2901 1.78e-05 0.005029
## 2902 9.01e-04 0.006093
## 2903 3.98e-04 0.002764
## 2904 1.33e-06 0.001080
## 2905 2.11e-05 0.001276
## 2906 2.51e-06 0.001409
## 2907 3.53e-06 0.001749
## 2908 2.66e-05 0.002621
## 2909 1.19e-06 0.001782
## 2910 6.77e-04 0.002265
## 2911 6.17e-05 0.002241
## 2912 1.64e-05 0.001061
## 2913 8.10e-05 0.001330
## 2914 1.01e-04 0.002217
## 2915 4.49e-05 0.001560
## 2916 7.24e-05 0.001286
## 2917 3.47e-08 0.002290
## 2918 5.95e-05 0.001904
## 2919 2.18e-05 0.002568
## 2920 7.70e-05 0.001428
## 2921 3.89e-06 0.001216
## 2922 5.36e-04 0.001423 *
## 2923 3.96e-05 0.001360
## 2924 8.18e-05 0.003889
## 2925 8.14e-05 0.000830
## 2926 2.15e-05 0.001715
## 2927 2.21e-06 0.002519
## 2928 4.61e-04 0.004389
## 2929 1.38e-07 0.001118
## 2930 1.05e-04 0.002331
## 2931 4.91e-08 0.002723
## 2932 1.18e-05 0.001993
## 2933 3.27e-04 0.002221
## 2934 1.09e-04 0.001300
## 2935 2.16e-05 0.002327
## 2936 2.05e-04 0.002780

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## 2937 6.43e-05 0.002130  
## 2938 2.03e-07 0.001141  
## 2939 1.15e-04 0.001534  
## 2940 2.54e-07 0.001347  
## 2941 9.19e-07 0.003469  
## 2942 1.36e-04 0.001236  
## 2943 3.69e-05 0.001301  
## 2944 1.72e-05 0.002284  
## 2945 5.36e-06 0.003314  
## 2946 1.44e-04 0.001618  
## 2947 2.11e-05 0.001986  
## 2948 7.69e-04 0.003690  
## 2949 8.73e-07 0.001068  
## 2950 2.40e-06 0.001940  
## 2951 3.84e-06 0.001562  
## 2952 1.10e-04 0.001016  
## 2953 5.75e-05 0.001432  
## 2954 5.13e-05 0.002114  
## 2955 2.00e-07 0.001579  
## 2956 6.91e-07 0.001713  
## 2957 1.02e-04 0.002524  
## 2958 7.87e-06 0.001577  
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## 2961 6.14e-06 0.001033  
## 2962 2.66e-06 0.001216  
## 2963 5.77e-06 0.000962  
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## 2965 2.35e-04 0.001863  
## 2966 3.59e-04 0.002416  
## 2967 2.95e-05 0.002932  
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## 2970 4.27e-05 0.004591  
## 2971 1.07e-04 0.004954  
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## 2973 1.91e-06 0.001304  
## 2974 3.57e-04 0.002435  
## 2975 5.96e-05 0.001423  
## 2976 3.05e-06 0.002111  
## 2977 1.31e-04 0.001269  
## 2978 4.50e-05 0.001198  
## 2979 1.44e-04 0.002716  
## 2980 6.14e-05 0.001785  
## 2981 5.39e-05 0.001472  
## 2982 5.07e-05 0.002215  
## 2983 8.38e-05 0.002884  
## 2984 1.37e-04 0.001772  
## 2985 3.76e-04 0.001339  
## 2986 8.34e-05 0.001443  
## 2987 2.22e-04 0.001594  
## 2988 8.45e-04 0.002261  
## 2989 1.94e-06 0.001224  
## 2990 4.40e-05 0.001440



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## 2991 9.66e-06 0.002148
## 2992 4.97e-05 0.001767
## 2993 2.33e-05 0.001997
## 2994 3.24e-05 0.001706
## 2995 2.30e-04 0.001614
## 2996 6.91e-05 0.001761
## 2997 3.41e-06 0.001536
## 2998 2.28e-05 0.002864
## 2999 1.02e-08 0.001363
## 3000 1.34e-05 0.001382
## 3001 8.59e-06 0.001398
## 3002 1.70e-04 0.001827
## 3003 1.82e-05 0.005533
## 3004 2.53e-04 0.008312
## 3005 2.96e-05 0.001285
## 3006 1.30e-06 0.000904
## 3007 4.76e-06 0.001741
## 3008 7.00e-06 0.001570
## 3009 1.09e-05 0.001485
## 3010 3.84e-06 0.002759
## 3011 6.21e-05 0.001180
## 3012 2.02e-04 0.002177
## 3013 7.33e-05 0.002127
## 3014 4.74e-06 0.002175
## 3015 7.27e-05 0.004097
## 3016 5.05e-07 0.001719
## 3017 2.89e-04 0.001125
## 3018 3.60e-05 0.001230
## 3019 8.93e-05 0.001283
## 3020 4.44e-07 0.001098
## 3021 2.06e-05 0.002570
## 3022 2.34e-04 0.001523
## 3023 1.61e-08 0.000934
## 3024 3.87e-05 0.002577
## 3025 1.12e-05 0.001254
## 3026 7.88e-06 0.001185
## 3027 1.65e-07 0.002024
## 3028 5.39e-05 0.001673
## 3029 5.94e-05 0.002628
## 3030 1.11e-04 0.002158
## 3031 4.36e-05 0.002792
## 3032 1.35e-05 0.001782
## 3033 7.62e-06 0.000826
## 3034 2.79e-04 0.001439
## 3035 1.38e-05 0.000645
## 3036 1.52e-03 0.004989
## 3037 1.09e-05 0.001058
## 3038 4.44e-05 0.001543
## 3039 2.37e-04 0.005351
## 3040 1.06e-03 0.002657 *
## 3041 5.29e-04 0.002538
## 3042 2.84e-04 0.004770
## 3043 1.10e-04 0.001394
## 3044 5.19e-04 0.006562

```

```
## 3045 3.72e-04 0.002954
## 3046 3.07e-06 0.001516
## 3047 1.35e-03 0.004781
```

## Remove outliers:

```
# filter outlier 282
step_model_no_282 <- cancer_county %>%
  dplyr::select(-median_age, -pct_black, -median_age_female, avg_household_size) %>%
  tibble::rowid_to_column() %>%
  filter(rowid !=282) %>%
  na.omit()

step_no_282 <- update(stepwise_model, . ~ ., data = step_model_no_282)
summary(step_no_282)
```

```
##
## Call:
## lm(formula = target_death_rate ~ incidence_rate + poverty_percent +
##     median_age_male + pct_unemployed16_over + pct_white + pct_asian +
##     pct_other_race + pct_married_households + pct_upto_hs18_24 +
##     pct_with_coverage + income_cat, data = step_model_no_282)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -93.887 -11.689  -0.051  11.936 126.194
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   69.286035   11.623979   5.961 2.80e-09 ***
## incidence_rate    0.228536    0.007592  30.102 < 2e-16 ***
## poverty_percent    1.045635    0.118358   8.834 < 2e-16 ***
## median_age_male   -0.214490    0.085989  -2.494  0.01267 *
## pct_unemployed16_over  0.750476    0.151124   4.966 7.21e-07 ***
## pct_white         0.084336    0.034622   2.436  0.01491 *
## pct_asian        -0.587738    0.166433  -3.531  0.00042 ***
## pct_other_race    -0.920930    0.118468  -7.774 1.04e-14 ***
## pct_married_households -0.224288    0.085471  -2.624  0.00873 **
## pct_upto_hs18_24     0.385467    0.037529  10.271 < 2e-16 ***
## pct_with_coverage  -0.215951    0.098701  -2.188  0.02875 *
## income_cat       -4.039980    1.490114  -2.711  0.00674 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 20.62 on 3034 degrees of freedom
## Multiple R-squared:  0.4501, Adjusted R-squared:  0.4481
## F-statistic: 225.7 on 11 and 3034 DF, p-value: < 2.2e-16
```

```
# filter #282, 1059
step_model_no_all <- cancer_county %>%
  dplyr::select(-median_age, -pct_black, -median_age_female, avg_household_size) %>%
  tibble::rowid_to_column() %>%
  filter(rowid !=282 & rowid != 1059) %>%
```

```

na.omit()

step_no_all <- update(stepwise_model, . ~ ., data = step_model_no_all)
summary(step_no_all)

##
## Call:
## lm(formula = target_death_rate ~ incidence_rate + poverty_percent +
##     median_age_male + pct_unemployed16_over + pct_white + pct_asian +
##     pct_other_race + pct_married_households + pct_upto_hs18_24 +
##     pct_with_coverage + income_cat, data = step_model_no_all)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -88.069 -11.710  -0.021   11.854  126.460
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    65.423198   11.615333    5.632 1.94e-08 ***
## incidence_rate    0.227187    0.007572   30.002 < 2e-16 ***
## poverty_percent    1.073476    0.118117    9.088 < 2e-16 ***
## median_age_male   -0.212629    0.085703   -2.481 0.013155 *
## pct_unemployed16_over  0.820282    0.151376    5.419 6.47e-08 ***
## pct_white         0.091233    0.034539    2.641 0.008297 **
## pct_asian        -0.583348    0.165881   -3.517 0.000443 ***
## pct_other_race    -0.900209    0.118158   -7.619 3.40e-14 ***
## pct_married_households -0.211546    0.085231   -2.482 0.013117 *
## pct_upto_hs18_24    0.382276    0.037410   10.218 < 2e-16 ***
## pct_with_coverage  -0.188060    0.098557   -1.908 0.056468 .
## income_cat       -4.075167    1.485162   -2.744 0.006107 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 20.55 on 3033 degrees of freedom
## Multiple R-squared:  0.4528, Adjusted R-squared:  0.4508
## F-statistic: 228.2 on 11 and 3033 DF,  p-value: < 2.2e-16

par(mfrow = c(2,2))
plot(step_no_all)

```

