

## MLR.R

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```
emp_churn <- read.csv("C:/Users/19737/Downloads/emp_churn.csv", header=TRUE,  
stringsAsFactors=FALSE)
```

```
str(emp_churn)
```

```
## 'data.frame': 1470 obs. of 35 variables:  
## $ i..Age : int 41 49 37 33 27 32 59 30 38 36 ...  
## $ Attrition : chr "Yes" "No" "Yes" "No" ...  
## $ BusinessTravel : chr "Travel_Rarely" "Travel_Frequently"  
"Travel_Rarely" "Travel_Frequently" ...  
## $ DailyRate : int 1102 279 1373 1392 591 1005 1324 1358  
216 1299 ...  
## $ Department : chr "Sales" "Research & Development"  
"Research & Development" "Research & Development" ...  
## $ DistanceFromHome : int 1 8 2 3 2 2 3 24 23 27 ...  
## $ Education : int 2 1 2 4 1 2 3 1 3 3 ...  
## $ EducationField : chr "Life Sciences" "Life Sciences" "Other"  
"Life Sciences" ...  
## $ EmployeeCount : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ EmployeeNumber : int 1 2 4 5 7 8 10 11 12 13 ...  
## $ EnvironmentSatisfaction : int 2 3 4 4 1 4 3 4 4 3 ...  
## $ Gender : chr "Female" "Male" "Male" "Female" ...  
## $ HourlyRate : int 94 61 92 56 40 79 81 67 44 94 ...  
## $ JobInvolvement : int 3 2 2 3 3 3 4 3 2 3 ...  
## $ JobLevel : int 2 2 1 1 1 1 1 1 3 2 ...  
## $ JobRole : chr "Sales Executive" "Research Scientist"  
"Laboratory Technician" "Research Scientist" ...  
## $ JobSatisfaction : int 4 2 3 3 2 4 1 3 3 3 ...  
## $ MaritalStatus : chr "Single" "Married" "Single" "Married"  
...  
## $ MonthlyIncome : int 5993 5130 2090 2909 3468 3068 2670 2693  
9526 5237 ...  
## $ MonthlyRate : int 19479 24907 2396 23159 16632 11864 9964  
13335 8787 16577 ...  
## $ NumCompaniesWorked : int 8 1 6 1 9 0 4 1 0 6 ...  
## $ Over18 : chr "Y" "Y" "Y" "Y" ...  
## $ OverTime : chr "Yes" "No" "Yes" "Yes" ...  
## $ PercentSalaryHike : int 11 23 15 11 12 13 20 22 21 13 ...  
## $ PerformanceRating : int 3 4 3 3 3 3 4 4 4 3 ...  
## $ RelationshipSatisfaction: int 1 4 2 3 4 3 1 2 2 2 ...  
## $ StandardHours : int 80 80 80 80 80 80 80 80 80 80 ...  
## $ StockOptionLevel : int 0 1 0 0 1 0 3 1 0 2 ...
```

```
## $ TotalWorkingYears      : int  8 10 7 8 6 8 12 1 10 17 ...
## $ TrainingTimesLastYear  : int  0 3 3 3 3 2 3 2 2 3 ...
## $ WorkLifeBalance        : int  1 3 3 3 3 2 2 3 3 2 ...
## $ YearsAtCompany         : int  6 10 0 8 2 7 1 1 9 7 ...
## $ YearsInCurrentRole     : int  4 7 0 7 2 7 0 0 7 7 ...
## $ YearsSinceLastPromotion : int  0 1 0 3 2 3 0 0 1 7 ...
## $ YearsWithCurrManager   : int  5 7 0 0 2 6 0 0 8 7 ...
```

```
library(data.table)
setDT(emp_churn)
```

```
class(emp_churn)
```

```
## [1] "data.table" "data.frame"
```

```
library(dplyr)
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:data.table':
```

```
##
```

```
##      between, first, last
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
library(ggplot2)
```

```
library(ggpubr)
```

```
## Loading required package: magrittr
```

```
library(car)
```

```
## Warning: package 'car' was built under R version 3.6.3
```

```
## Loading required package: carData
```

```
##
```

```
## Attaching package: 'car'
```

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

```
##
```

```
##      recode
```

```
emp_churn
```

##	i..Age	Attrition	BusinessTravel	DailyRate	Department
## 1:	41	Yes	Travel_Rarely	1102	Sales
## 2:	49	No	Travel_Frequently	279	Research & Development
## 3:	37	Yes	Travel_Rarely	1373	Research & Development
## 4:	33	No	Travel_Frequently	1392	Research & Development
## 5:	27	No	Travel_Rarely	591	Research & Development
## ---					
## 1466:	36	No	Travel_Frequently	884	Research & Development
## 1467:	39	No	Travel_Rarely	613	Research & Development
## 1468:	27	No	Travel_Rarely	155	Research & Development
## 1469:	49	No	Travel_Frequently	1023	Sales
## 1470:	34	No	Travel_Rarely	628	Research & Development
##	DistanceFromHome	Education	EducationField	EmployeeCount	EmployeeNumber
## 1:	1	2	Life Sciences	1	1
## 2:	8	1	Life Sciences	1	2
## 3:	2	2	Other	1	4
## 4:	3	4	Life Sciences	1	5
## 5:	2	1	Medical	1	7
## ---					
## 1466:	23	2	Medical	1	2061
## 1467:	6	1	Medical	1	2062
## 1468:	4	3	Life Sciences	1	2064
## 1469:	2	3	Medical	1	2065
## 1470:	8	3	Medical	1	2068
##	EnvironmentSatisfaction	Gender	HourlyRate	JobInvolvement	JobLevel
## 1:	2	Female	94	3	2
## 2:	3	Male	61	2	2
## 3:	4	Male	92	2	1
## 4:	4	Female	56	3	1
## 5:	1	Male	40	3	1
## ---					
## 1466:	3	Male	41	4	2
## 1467:	4	Male	42	2	3
## 1468:	2	Male	87	4	2
## 1469:	4	Male	63	2	2
## 1470:	2	Male	82	4	2
##	JobRole	JobSatisfaction	MaritalStatus	MonthlyIncome	
## 1:	Sales Executive	4	Single		

```

5993
## 2:      Research Scientist      2      Married
5130
## 3:      Laboratory Technician    3      Single
2090
## 4:      Research Scientist      3      Married
2909
## 5:      Laboratory Technician    2      Married
3468
## ---
## 1466:    Laboratory Technician    4      Married
2571
## 1467: Healthcare Representative    1      Married
9991
## 1468:    Manufacturing Director   2      Married
6142
## 1469:      Sales Executive        2      Married
5390
## 1470:    Laboratory Technician    3      Married
4404
##      MonthlyRate NumCompaniesWorked Over18 OverTime PercentSalaryHike
## 1:      19479      8      Y      Yes      11
## 2:      24907      1      Y      No      23
## 3:      2396      6      Y      Yes      15
## 4:      23159      1      Y      Yes      11
## 5:      16632      9      Y      No      12
## ---
## 1466:      12290      4      Y      No      17
## 1467:      21457      4      Y      No      15
## 1468:      5174      1      Y      Yes     20
## 1469:      13243      2      Y      No      14
## 1470:      10228      2      Y      No      12
##      PerformanceRating RelationshipSatisfaction StandardHours
StockOptionLevel
## 1:      3      1      80
0
## 2:      4      4      80
1
## 3:      3      2      80
0
## 4:      3      3      80
0
## 5:      3      4      80
1
## ---
## 1466:      3      3      80
1
## 1467:      3      1      80
1
## 1468:      4      2      80

```

```

1
## 1469:          3          4          80
0
## 1470:          3          1          80
0
##      TotalWorkingYears TrainingTimesLastYear WorkLifeBalance
YearsAtCompany
##    1:          8          0          1
6
##    2:         10          3          3
10
##    3:          7          3          3
0
##    4:          8          3          3
8
##    5:          6          3          3
2
##    ---
## 1466:         17          3          3
5
## 1467:          9          5          3
7
## 1468:          6          0          3
6
## 1469:         17          3          2
9
## 1470:          6          3          4
4
##      YearsInCurrentRole YearsSinceLastPromotion YearsWithCurrManager
##    1:          4          0          5
##    2:          7          1          7
##    3:          0          0          0
##    4:          7          3          0
##    5:          2          2          2
##    ---
## 1466:          2          0          3
## 1467:          7          1          7
## 1468:          2          0          3
## 1469:          6          0          8
## 1470:          3          1          2

emp_churn[,1:35][emp_churn[,1:35] == "Yes"] = 1
emp_churn[,1:35][emp_churn[,1:35] == "No"] = 0

emp_churn$Gender[emp_churn$Gender=="Male"]=1;
emp_churn$Gender[emp_churn$Gender=="Female"]=0;

emp_churn$MaritalStatus[emp_churn$MaritalStatus=="Single"]=0;
emp_churn$MaritalStatus[emp_churn$MaritalStatus=="Married"]=1;
emp_churn$MaritalStatus[emp_churn$MaritalStatus=="Divorced"]=2;

```

```
x=lm(Attrition~i..Age+BusinessTravel+DailyRate+DistanceFromHome+EnvironmentSatisfaction+MaritalStatus+HourlyRate+JobInvolvement+JobLevel+JobSatisfaction+MaritalStatus+MonthlyIncome+OverTime+PercentSalaryHike+StandardHours+TotalWorkingYears+WorkLifeBalance+YearsAtCompany+YearsInCurrentRole+YearsSinceLastPromotion+YearsWithCurrManager, data=emp_churn)
```

```
x
```

```
##
```

```
## Call:
```

```
## lm(formula = Attrition ~ i..Age + BusinessTravel + DailyRate +  
##     DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +  
##     HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +  
##     MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +  
##     StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +  
##     YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,  
##     data = emp_churn)
```

```
##
```

```
## Coefficients:
```

```
##              (Intercept)              i..Age  
##              8.341e-01              -3.162e-03  
## BusinessTravelTravel_Frequently BusinessTravelTravel_Rarely  
##              1.514e-01              6.512e-02  
##              DailyRate              DistanceFromHome  
##              -2.791e-05              3.460e-03  
##      EnvironmentSatisfaction              MaritalStatus1  
##              -4.029e-02              -1.102e-01  
##              MaritalStatus2              HourlyRate  
##              -1.349e-01              -2.170e-04  
##              JobInvolvement              JobLevel  
##              -6.229e-02              -2.387e-02  
##              JobSatisfaction              MonthlyIncome  
##              -4.033e-02              -3.525e-07  
##              OverTime1              PercentSalaryHike  
##              2.024e-01              -1.674e-03  
##              StandardHours              TotalWorkingYears  
##              NA              -1.479e-03  
##              WorkLifeBalance              YearsAtCompany  
##              -2.903e-02              2.603e-03  
##              YearsInCurrentRole              YearsSinceLastPromotion  
##              -9.064e-03              1.187e-02  
##              YearsWithCurrManager  
##              -1.092e-02
```

```
summary(x)
```

```
##
```

```
## Call:
```

```

## lm(formula = Attrition ~ i..Age + BusinessTravel + DailyRate +
##     DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +
##     HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +
##     MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +
##     StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
##     YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
##     data = emp_churn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.56216 -0.20840 -0.09171  0.05753  1.11567
##
## Coefficients: (1 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      8.341e-01  9.065e-02  9.201  < 2e-16 ***
## i..Age           -3.162e-03  1.326e-03  -2.384  0.01726 *
## BusinessTravelTravel_Frequently  1.514e-01  3.360e-02  4.505  7.18e-06 ***
## BusinessTravelTravel_Rarely      6.512e-02  2.904e-02  2.243  0.02507 *
## DailyRate        -2.791e-05  2.154e-05  -1.295  0.19538
## DistanceFromHome  3.460e-03  1.068e-03  3.239  0.00123 **
## EnvironmentSatisfaction -4.029e-02  7.927e-03  -5.083  4.20e-07 ***
## MaritalStatus1     -1.102e-01  2.014e-02  -5.474  5.17e-08 ***
## MaritalStatus2     -1.349e-01  2.399e-02  -5.622  2.26e-08 ***
## HourlyRate        -2.170e-04  4.271e-04  -0.508  0.61150
## JobInvolvement     -6.229e-02  1.220e-02  -5.107  3.71e-07 ***
## JobLevel          -2.387e-02  2.604e-02  -0.917  0.35937
## JobSatisfaction    -4.033e-02  7.858e-03  -5.132  3.25e-07 ***
## MonthlyIncome     -3.525e-07  6.016e-06  -0.059  0.95329
## OverTime1         2.024e-01  1.924e-02  10.522  < 2e-16 ***
## PercentSalaryHike  -1.674e-03  2.365e-03  -0.708  0.47918
## StandardHours      NA          NA          NA          NA
## TotalWorkingYears  -1.479e-03  2.358e-03  -0.627  0.53049
## WorkLifeBalance    -2.903e-02  1.227e-02  -2.365  0.01815 *
## YearsAtCompany     2.603e-03  2.931e-03  0.888  0.37455
## YearsInCurrentRole -9.064e-03  3.914e-03  -2.316  0.02070 *
## YearsSinceLastPromotion  1.187e-02  3.455e-03  3.435  0.00061 ***
## YearsWithCurrManager -1.092e-02  4.019e-03  -2.718  0.00666 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.33 on 1448 degrees of freedom
## Multiple R-squared:  0.207, Adjusted R-squared:  0.1955
## F-statistic: 18 on 21 and 1448 DF, p-value: < 2.2e-16

coefficients(x)

##              (Intercept)              i..Age
##      8.340952e-01      -3.162131e-03
## BusinessTravelTravel_Frequently BusinessTravelTravel_Rarely
##      1.513585e-01      6.511584e-02

```

```
##           DailyRate           DistanceFromHome
##           -2.790598e-05           3.460081e-03
## EnvironmentSatisfaction           MaritalStatus1
##           -4.029278e-02           -1.102275e-01
##           MaritalStatus2           HourlyRate
##           -1.348629e-01           -2.169636e-04
##           JobInvolvement           JobLevel
##           -6.228668e-02           -2.387418e-02
##           JobSatisfaction           MonthlyIncome
##           -4.032920e-02           -3.524515e-07
##           OverTime1           PercentSalaryHike
##           2.024277e-01           -1.673733e-03
##           StandardHours           TotalWorkingYears
##           NA           -1.479393e-03
##           WorkLifeBalance           YearsAtCompany
##           -2.902711e-02           2.603135e-03
##           YearsInCurrentRole           YearsSinceLastPromotion
##           -9.064494e-03           1.186648e-02
##           YearsWithCurrManager
##           -1.092202e-02
```

```
confint(x,level=0.95)
```

```
##           2.5 %           97.5 %
## (Intercept)           6.562756e-01 1.011915e+00
## i..Age           -5.764031e-03 -5.602314e-04
## BusinessTravelTravel_Frequently           8.544889e-02 2.172681e-01
## BusinessTravelTravel_Rarely           8.158859e-03 1.220728e-01
## DailyRate           -7.016314e-05 1.435117e-05
## DistanceFromHome           1.364512e-03 5.555650e-03
## EnvironmentSatisfaction           -5.584194e-02 -2.474362e-02
## MaritalStatus1           -1.497255e-01 -7.072952e-02
## MaritalStatus2           -1.819177e-01 -8.780814e-02
## HourlyRate           -1.054670e-03 6.207427e-04
## JobInvolvement           -8.621223e-02 -3.836112e-02
## JobLevel           -7.495230e-02 2.720393e-02
## JobSatisfaction           -5.574372e-02 -2.491468e-02
## MonthlyIncome           -1.215266e-05 1.144776e-05
## OverTime1           1.646890e-01 2.401664e-01
## PercentSalaryHike           -6.312332e-03 2.964866e-03
## StandardHours           NA           NA
## TotalWorkingYears           -6.104789e-03 3.146003e-03
## WorkLifeBalance           -5.309978e-02 -4.954450e-03
## YearsAtCompany           -3.145522e-03 8.351792e-03
## YearsInCurrentRole           -1.674191e-02 -1.387078e-03
## YearsSinceLastPromotion           5.089351e-03 1.864361e-02
## YearsWithCurrManager           -1.880587e-02 -3.038171e-03
```

```
# Predicted Values
```

```
fitted(x)
```



##	1	2	3	4	5
##	0.3111588999	0.1088964172	0.3793985321	0.3144159878	0.2253711977
##	6	7	8	9	10
##	0.1448865005	0.2188562052	0.0834714682	0.1950318406	0.0900237044
##	11	12	13	14	15
##	0.1243176550	0.3597485848	0.2735026265	0.0784328548	0.5315178089
##	16	17	18	19	20
##	0.0820002774	0.3154608474	0.1600552155	-0.0577612664	0.2990033452
##	21	22	23	24	25
##	0.0380092819	0.2665637077	0.1647833301	0.2490906171	0.2963090395
##	26	27	28	29	30
##	-0.2253646186	0.7505317121	0.0809190839	-0.0192496627	0.1783704651
##	31	32	33	34	35
##	0.1429540363	0.0980954566	0.2094957527	-0.0770425620	0.3648419845
##	36	37	38	39	40
##	-0.1049756472	0.3429867784	-0.0174171019	0.4278622276	0.1046317662
##	41	42	43	44	45
##	0.0386338614	0.1233518167	0.5190283006	0.1090965683	0.1176655981
##	46	47	48	49	50
##	0.0083114529	0.1842653551	0.2059972158	0.3051387087	-0.0611066104
##	51	52	53	54	55
##	0.4149493599	0.4319158526	0.2716626670	0.3227872667	0.3721552098
##	56	57	58	59	60
##	0.3331763637	0.1722428014	0.4194457516	-0.1168185335	0.0127686609
##	61	62	63	64	65
##	0.2456011314	0.2656716557	0.3327768550	0.1723394650	-0.0342622153
##	66	67	68	69	70
##	0.0699245895	0.3396764819	0.0633647890	0.2924128606	0.3640372980
##	71	72	73	74	75
##	0.2765315573	0.0360459575	0.2308134822	0.0247452104	0.0523367516
##	76	77	78	79	80
##	0.0242730611	0.1517311781	0.2238663285	0.1757717258	0.2201337034
##	81	82	83	84	85
##	0.2638640561	0.2101693010	0.0049910579	0.1306974278	0.1296798659
##	86	87	88	89	90
##	0.0640107220	0.1839522339	-0.0888354209	0.0496658165	0.0653061638
##	91	92	93	94	95
##	0.2071632692	0.3535933482	0.2681475675	0.4337673123	0.1388419689
##	96	97	98	99	100
##	0.0313016956	0.1496215495	-0.0167208440	-0.0519242562	0.0579210680
##	101	102	103	104	105
##	0.2952534074	0.2420077966	0.5305885089	0.0915630096	-0.0799887838
##	106	107	108	109	110
##	-0.2101703938	0.2283662935	0.4392219937	0.1040288485	0.2865275676
##	111	112	113	114	115
##	0.3555829685	0.5523307159	0.1204276004	0.1791587661	0.1362785841
##	116	117	118	119	120
##	0.0372444545	0.1820163099	0.0057605333	0.0817017005	0.1296876387
##	121	122	123	124	125
##	0.2790955933	-0.0555989555	0.3250109687	0.0143556783	0.4323718574

##	126	127	128	129	130
##	0.2374659258	0.0646908663	0.5087590643	0.0882466558	0.0445369274
##	131	132	133	134	135
##	0.2736802595	0.1563884270	0.4963985085	0.0787553675	0.0914252455
##	136	137	138	139	140
##	0.0972721126	0.2897033820	-0.0886627783	0.2973895631	0.2031148635
##	141	142	143	144	145
##	0.2639498396	0.1527822331	0.2993736255	0.3093774242	0.0425972004
##	146	147	148	149	150
##	0.1188073914	0.2306715809	0.1438254400	0.1199240848	0.3175230235
##	151	152	153	154	155
##	0.1008726006	-0.0553402758	0.2260271137	-0.0518181271	0.1583047741
##	156	157	158	159	160
##	-0.1926583119	0.1081548485	0.3778126236	-0.1015328721	0.1436762348
##	161	162	163	164	165
##	0.0977595793	0.0810039955	0.1760364155	0.1163975666	0.2758180389
##	166	167	168	169	170
##	0.0496371741	0.0341415474	0.0203630529	0.1196207861	0.1649792687
##	171	172	173	174	175
##	0.4102747752	0.4894134591	0.3021116422	0.0095840280	0.1950038379
##	176	177	178	179	180
##	0.2531506680	0.1161468858	0.3547735191	0.0863792878	0.1514358315
##	181	182	183	184	185
##	0.2505801702	0.2477791341	0.4756612487	0.0921901964	-0.0423499517
##	186	187	188	189	190
##	0.0209703795	-0.1098725501	-0.2078037404	0.0339113213	0.0076599592
##	191	192	193	194	195
##	-0.1042922883	0.1719946758	0.4289806978	-0.2255469774	-0.0219783201
##	196	197	198	199	200
##	0.3324987041	0.3396345849	-0.0390533551	-0.0262382184	-0.0143902490
##	201	202	203	204	205
##	0.3151268087	-0.0307800798	0.3096346735	0.1619965052	0.4241721893
##	206	207	208	209	210
##	0.0703276475	0.2575403780	0.2734423147	-0.0058134631	-0.0594545043
##	211	212	213	214	215
##	0.0916417572	0.0458346128	0.1522538995	0.0709711338	0.3907168218
##	216	217	218	219	220
##	0.2274394788	0.5050884551	0.1744231812	0.0488650417	-0.0441880130
##	221	222	223	224	225
##	-0.0015378912	0.1913050595	0.1924557156	-0.0236820883	0.0579162608
##	226	227	228	229	230
##	0.0389505553	0.1044081502	0.0830117086	0.0493581806	0.4836378018
##	231	232	233	234	235
##	0.1506259101	-0.2207854318	0.0680654637	-0.2355972539	0.2768914769
##	236	237	238	239	240
##	-0.0623844003	0.1043791090	0.3027407797	0.0956057250	0.4654923270
##	241	242	243	244	245
##	-0.0108301662	0.0137750102	0.1489771171	0.0268622681	-0.1741422173
##	246	247	248	249	250
##	0.1136854084	0.1158401697	0.0611451878	0.1882844240	0.0855292824

##	251	252	253	254	255
##	0.1895500122	0.2165841455	0.1338751976	0.3277981183	-0.0197244636
##	256	257	258	259	260
##	0.1509508120	0.3148121774	-0.1026378604	0.0178701131	0.4141282102
##	261	262	263	264	265
##	0.2060142314	-0.0821373486	0.2402045019	0.2995359354	0.3576111492
##	266	267	268	269	270
##	0.2242217165	0.1817295036	0.0106205817	0.0784945454	-0.0972270793
##	271	272	273	274	275
##	0.1298468089	0.3348765059	-0.0078252577	-0.0380357866	0.2144979813
##	276	277	278	279	280
##	0.1192052398	0.0926033215	0.3611609774	0.1410344221	-0.0437188665
##	281	282	283	284	285
##	0.1131769438	-0.0039591765	0.1619817726	0.1347152486	0.5621575483
##	286	287	288	289	290
##	-0.0096529271	0.3765620966	-0.0205502600	0.4088003670	0.0928241813
##	291	292	293	294	295
##	0.4098426635	0.2428756244	0.1952453457	0.3772246363	0.4002812616
##	296	297	298	299	300
##	0.1138520820	0.2725980503	0.0346573987	0.1132632319	0.0565742371
##	301	302	303	304	305
##	-0.0102532817	0.3010680493	0.1752655405	0.0188842378	-0.2031305745
##	306	307	308	309	310
##	-0.0107371991	0.0312720920	0.1916104560	0.1589537066	0.2241932646
##	311	312	313	314	315
##	0.3047280379	0.1505115204	0.2948636537	0.1081453836	0.2811802015
##	316	317	318	319	320
##	0.1385550115	0.2218769487	0.1478892852	0.4571149927	0.3442666681
##	321	322	323	324	325
##	0.2705343927	-0.1405504030	0.0388816115	0.4746478262	-0.0756251434
##	326	327	328	329	330
##	0.1265633489	0.1640519184	0.2152018312	0.3247208131	-0.1335796573
##	331	332	333	334	335
##	0.1119317073	0.2115163498	0.1755205356	0.1197350513	-0.0800169447
##	336	337	338	339	340
##	0.3277094737	0.4854826049	0.2899097304	0.0185721196	0.0414362426
##	341	342	343	344	345
##	-0.0840496843	0.1216939065	0.2293361767	0.2494429669	0.0046339702
##	346	347	348	349	350
##	0.1194743766	0.3851421661	0.2291558590	0.1926496780	-0.0394012798
##	351	352	353	354	355
##	0.2510100829	0.0593967490	0.1924733132	0.1838994307	0.2100228851
##	356	357	358	359	360
##	0.0300989940	0.1948816839	0.6819677305	0.0109935569	0.0489342573
##	361	362	363	364	365
##	-0.0905672667	0.0674579941	0.2410374277	0.3958310769	0.0847491990
##	366	367	368	369	370
##	-0.0614239749	0.3295905519	0.0229804381	0.3660380189	0.5340015216
##	371	372	373	374	375
##	0.2638687605	0.1625392762	0.2612616817	0.0080463481	0.1072343945

##	376	377	378	379	380
##	0.1541097414	-0.1189143547	0.0295181692	0.2999047397	0.1201465770
##	381	382	383	384	385
##	0.1707820524	0.1505529694	0.3101127499	0.2829771658	0.1914247711
##	386	387	388	389	390
##	0.4640839137	0.0663434080	-0.0279732285	0.1354341108	0.4214808316
##	391	392	393	394	395
##	0.0528764175	0.1110091511	0.0706018548	-0.0441034699	0.1174034898
##	396	397	398	399	400
##	0.1032406277	0.1739497990	0.4172453946	0.2547272557	0.2061997136
##	401	402	403	404	405
##	0.1602171191	-0.0038836598	0.2253330127	-0.0530053612	0.1123511554
##	406	407	408	409	410
##	0.2361075939	0.1199667562	0.1078762827	-0.1539570299	0.2071352332
##	411	412	413	414	415
##	0.2167990445	0.1370833223	-0.0917054938	0.0673599646	0.4737973076
##	416	417	418	419	420
##	0.2889422866	0.2554451867	-0.2858730126	0.1887306983	-0.0182989280
##	421	422	423	424	425
##	0.0574392564	0.2423692881	0.3350923033	0.0548026964	0.1169067577
##	426	427	428	429	430
##	0.1813791588	0.0712327039	0.1448547165	-0.0259911076	0.0507996480
##	431	432	433	434	435
##	0.3512428963	0.1229273497	0.0283898678	0.1858067483	-0.1122566652
##	436	437	438	439	440
##	0.2383856607	0.2226460721	0.2143322046	0.1769508599	0.2716391780
##	441	442	443	444	445
##	0.4446588150	0.1679334288	0.1591954244	0.3357075355	-0.0228970643
##	446	447	448	449	450
##	0.0999022802	-0.0621314783	0.0004806994	0.0504790175	0.1027334091
##	451	452	453	454	455
##	0.2549152341	0.2664091285	-0.0981186713	0.4702156899	-0.0023870603
##	456	457	458	459	460
##	-0.0762428214	0.0371717491	0.6136940591	0.1774524565	0.3007279128
##	461	462	463	464	465
##	0.2346768774	0.1943300794	0.0433393312	0.6477906661	0.0455535694
##	466	467	468	469	470
##	0.1802741549	0.0003560962	0.0744563046	0.1249862792	-0.1078601163
##	471	472	473	474	475
##	0.2117448156	0.0223696635	0.1457934951	0.0332321045	0.2647314351
##	476	477	478	479	480
##	0.2074838618	0.2164198589	0.1650084125	0.1164128323	0.4608138518
##	481	482	483	484	485
##	0.3781352932	0.3023167969	0.2241883101	0.3170886129	-0.0768306401
##	486	487	488	489	490
##	0.2186845506	0.2473982831	0.2666388757	-0.0039246045	0.2411107553
##	491	492	493	494	495
##	0.2918711212	0.1906152094	0.0598230784	0.2018660223	0.2498969812
##	496	497	498	499	500
##	0.1032944718	0.2767763749	-0.0157308557	0.1993315235	0.0533006910

##	501	502	503	504	505
##	0.2826650098	0.1734711631	0.0644891008	0.0423226506	0.3515438754
##	506	507	508	509	510
##	0.2475888579	-0.0112821525	0.1385296697	0.2625552143	0.0202289048
##	511	512	513	514	515
##	0.0572345264	0.3546154702	0.3075958693	0.4313734044	0.6197340692
##	516	517	518	519	520
##	0.0875404402	0.1557289684	0.0120876318	0.0580491088	0.1612799546
##	521	522	523	524	525
##	0.0122186697	0.0994243936	0.0492635956	0.1168240054	0.1426842859
##	526	527	528	529	530
##	0.2971358166	0.1728223144	0.0180386702	0.3072965850	0.0006476435
##	531	532	533	534	535
##	0.0177589147	0.0613229772	0.0858736252	0.1984838015	-0.1691603350
##	536	537	538	539	540
##	0.1089127492	0.2602416925	0.1104568129	-0.1230157681	0.0549551182
##	541	542	543	544	545
##	0.5661610052	-0.0159364393	0.3078249458	0.3472288224	0.2368459841
##	546	547	548	549	550
##	0.0614140041	0.2237739439	0.3031323618	0.1235255239	0.2315003538
##	551	552	553	554	555
##	0.2031359502	0.0536890023	-0.1235348044	0.3535420932	0.2359284560
##	556	557	558	559	560
##	0.0809421665	0.0114273816	-0.0454321339	0.1871800336	0.2887796817
##	561	562	563	564	565
##	0.1947157980	-0.0899261602	0.2837379558	0.1926026950	0.2731836768
##	566	567	568	569	570
##	0.2448212002	0.4320467815	0.0235048677	0.0912483610	0.1492412675
##	571	572	573	574	575
##	-0.0897567422	0.3439762440	0.1842463971	0.3066097059	0.1011081136
##	576	577	578	579	580
##	0.2278098349	0.1247851862	0.3492703507	0.4317275857	0.3004121218
##	581	582	583	584	585
##	0.1449662620	0.1266108947	0.0028480806	0.1151553999	0.1121450868
##	586	587	588	589	590
##	0.3325850206	0.1556883105	-0.0808352686	-0.1336010120	0.4983461999
##	591	592	593	594	595
##	-0.0560158444	0.3616245044	0.1279067709	-0.0074536267	-0.0474063017
##	596	597	598	599	600
##	0.2008805945	0.0619200308	0.1704777843	0.2346138949	0.1007643910
##	601	602	603	604	605
##	0.0145930877	0.4250704213	0.4030966133	0.2759794506	0.1637973175
##	606	607	608	609	610
##	0.3647329527	0.3117233832	-0.1156721956	0.1010865659	0.1087195463
##	611	612	613	614	615
##	0.1355347750	0.0149250368	0.3269101359	0.0564687694	0.3481832893
##	616	617	618	619	620
##	0.0153711739	-0.0477288683	0.1600198383	0.3367105138	-0.0159310470
##	621	622	623	624	625
##	0.4083240174	0.1034532109	0.0847952593	0.1878973566	0.1932219412

##	626	627	628	629	630
##	0.1709556116	0.0108123956	0.0288963952	0.0925406175	0.1076556041
##	631	632	633	634	635
##	0.1020993833	0.2181859970	0.4410887734	0.2334480118	0.3286975300
##	636	637	638	639	640
##	0.0656450660	0.4500557144	-0.0812584193	0.1721266904	0.0631369854
##	641	642	643	644	645
##	0.1566662966	0.2269702300	0.2107440105	0.0920956333	0.1796775542
##	646	647	648	649	650
##	0.3491535012	-0.0239688765	0.0530210161	0.1406199651	-0.0852917793
##	651	652	653	654	655
##	0.0639319839	0.1514738862	0.3653566506	0.0975354648	-0.0634245470
##	656	657	658	659	660
##	0.1826513591	0.5653160247	0.1302640018	0.4280285984	0.1998590930
##	661	662	663	664	665
##	0.2872776975	0.1273745114	0.3097322252	0.2182606140	0.1371718398
##	666	667	668	669	670
##	0.3202476420	0.2839876189	0.3443916474	0.0719199442	0.3422243557
##	671	672	673	674	675
##	0.2539913546	0.1879825840	0.1844711507	0.4884468099	0.1832822817
##	676	677	678	679	680
##	0.1829557493	0.1616189033	0.0560509244	0.0549149104	-0.0092977493
##	681	682	683	684	685
##	0.1934847425	-0.1086104953	0.0851176614	0.4791747675	0.2271881836
##	686	687	688	689	690
##	0.2853646825	0.1873621823	0.0430103775	0.5667318582	0.4178214107
##	691	692	693	694	695
##	0.2877270119	0.3338346484	0.1136926796	0.1882506359	0.2045077124
##	696	697	698	699	700
##	0.2956764529	-0.0959845657	0.1619068159	0.0953133140	-0.2024538690
##	701	702	703	704	705
##	0.0748274465	-0.0617895218	0.0162230030	0.2566849855	-0.2337654848
##	706	707	708	709	710
##	0.0142829706	0.3047951955	0.0954408995	-0.1257294710	0.4897174552
##	711	712	713	714	715
##	0.0939378603	0.5235049636	0.2048557103	-0.1138045732	-0.2333758476
##	716	717	718	719	720
##	0.2776969116	-0.1535449940	0.1785675944	0.1481932437	0.1817618847
##	721	722	723	724	725
##	0.4537542741	0.0391204421	0.1663349202	-0.1805724982	0.1351597990
##	726	727	728	729	730
##	0.4212656128	0.1761192766	0.2054355908	-0.1422814657	0.3685697989
##	731	732	733	734	735
##	0.2597447803	0.5626539084	0.3772492920	-0.1268411578	0.4077933767
##	736	737	738	739	740
##	0.2563352075	0.0135650215	0.1283604581	-0.0065295729	0.1016235049
##	741	742	743	744	745
##	0.0858490773	-0.1146190518	0.0860724510	0.2272673302	0.3585793181
##	746	747	748	749	750
##	0.3268585886	-0.1105151165	0.3422624535	0.4563877498	-0.0102878033

##	751	752	753	754	755
##	0.0161094488	-0.2682966993	0.1825278818	0.4294288714	0.2128638818
##	756	757	758	759	760
##	-0.1594316335	0.1350443960	-0.0726804344	0.1215176980	0.2594108681
##	761	762	763	764	765
##	0.0666458763	0.1766302266	0.5486848381	0.2822194453	0.1113506961
##	766	767	768	769	770
##	0.1324781168	0.1703386324	0.1809546420	0.2191622991	0.2700649486
##	771	772	773	774	775
##	-0.1945589762	0.0897417915	0.1064442201	0.1327721437	0.0811020568
##	776	777	778	779	780
##	0.0710948047	0.4403237419	0.4453931860	0.1350432514	0.2372923392
##	781	782	783	784	785
##	0.2378870553	0.3037911387	0.1948664009	-0.0551263516	0.0268389425
##	786	787	788	789	790
##	0.1294305521	0.2189715275	-0.0120312543	0.0709166779	0.0960864993
##	791	792	793	794	795
##	-0.0153209790	0.2803541351	0.3854581059	0.2225141533	0.2792989502
##	796	797	798	799	800
##	0.2397474822	0.1477155785	0.2373298225	0.6342763622	0.0834607111
##	801	802	803	804	805
##	0.3462134294	0.3525549515	0.1299485528	0.0425026838	-0.0544935375
##	806	807	808	809	810
##	-0.0727845266	0.1573712447	0.1835717444	-0.0072213128	-0.0694221986
##	811	812	813	814	815
##	-0.0608661520	0.1464448146	0.1753009530	0.1448091645	0.0495631372
##	816	817	818	819	820
##	0.4565284179	0.1234560941	0.0221722985	0.1308978913	0.2575861564
##	821	822	823	824	825
##	0.0345821716	-0.0280118891	0.2020457484	0.1933797451	0.3559551236
##	826	827	828	829	830
##	0.3288555492	0.0112271457	0.4258893165	0.2201703080	0.5144761805
##	831	832	833	834	835
##	0.3225621983	0.2434384626	0.1102267958	0.1547941022	0.0691520350
##	836	837	838	839	840
##	0.2042417821	0.1708716057	0.1387107963	0.4889660447	0.1805190108
##	841	842	843	844	845
##	0.0446567323	0.2690496781	0.3075901980	-0.0702719552	0.1078308606
##	846	847	848	849	850
##	0.4590061726	0.0406933530	0.2261421337	0.1268139715	0.3366025881
##	851	852	853	854	855
##	0.0854395687	-0.0834025155	-0.0440047542	0.3308493006	0.3087018350
##	856	857	858	859	860
##	-0.0821998430	0.3902135602	0.3351775023	-0.2488392833	0.4403257070
##	861	862	863	864	865
##	0.4343830318	-0.0088089650	0.2477870482	0.0810948660	0.2489044446
##	866	867	868	869	870
##	0.1419740512	0.1972281534	0.0054481853	0.2223740324	-0.0940643842
##	871	872	873	874	875
##	0.2380119663	0.2204042672	0.2285501867	0.0729849200	0.0461718995

##	876	877	878	879	880
##	0.0516294703	0.2044274226	-0.0887047621	-0.1319920148	-0.0262833018
##	881	882	883	884	885
##	0.3135761101	0.2857277523	0.3448353278	0.0391810696	0.1517747574
##	886	887	888	889	890
##	0.1522559525	0.1815810963	0.5227344197	0.1424856679	0.4714365747
##	891	892	893	894	895
##	-0.0608676450	-0.0016753781	0.5402036594	0.0762842518	-0.3376787458
##	896	897	898	899	900
##	0.3510528929	0.2330971637	0.0643518905	-0.1204989338	0.0176875058
##	901	902	903	904	905
##	0.1007729334	0.1108485747	0.1110204727	0.2383952384	-0.0289978015
##	906	907	908	909	910
##	-0.1149952769	0.0918657866	-0.0983942517	-0.0033752516	0.4753553696
##	911	912	913	914	915
##	0.0720826660	0.6930426052	0.3855802614	0.3074186226	0.2956051058
##	916	917	918	919	920
##	0.5497345489	-0.0908556374	0.4360692158	0.2052853121	-0.0036656559
##	921	922	923	924	925
##	0.1035336677	0.4641069183	-0.0631622193	0.1138108121	0.2879689351
##	926	927	928	929	930
##	0.2522097532	0.0377924642	0.2440934923	-0.0066375381	0.3859092813
##	931	932	933	934	935
##	0.3897445534	0.2424968594	0.2926044978	0.2609196926	0.2629618965
##	936	937	938	939	940
##	-0.1756124129	0.2712034352	0.4130252475	0.1237599992	0.0047134100
##	941	942	943	944	945
##	0.2963327288	0.1752306417	-0.0879093470	0.1022969897	0.0501646374
##	946	947	948	949	950
##	0.2313849494	0.4678576074	0.3485119238	0.3215634016	0.1930960739
##	951	952	953	954	955
##	0.1278252326	0.3361018334	0.4512556019	0.1513551503	0.0312265867
##	956	957	958	959	960
##	-0.0590500981	0.0014425410	0.0149690019	-0.1259122221	0.0616559612
##	961	962	963	964	965
##	0.0857319102	0.4319274796	0.0350484518	0.0199938925	0.2609516277
##	966	967	968	969	970
##	0.0948887030	0.2211642894	0.0901233103	0.1663355967	-0.1227516883
##	971	972	973	974	975
##	0.0129612610	0.0868571111	0.0532207906	-0.0127311155	0.3063258935
##	976	977	978	979	980
##	0.2482774128	0.1401876708	0.1722049210	-0.0768490758	0.1574573837
##	981	982	983	984	985
##	0.2822031666	0.3883176442	0.0149526147	-0.0442509083	0.2535034228
##	986	987	988	989	990
##	0.3247835697	0.3102196370	0.1508723413	0.2917942534	0.2171626236
##	991	992	993	994	995
##	0.0809813753	0.3317975099	-0.0907065868	0.1477363757	0.2088550698
##	996	997	998	999	1000
##	0.4406505628	0.3037073020	0.4551457420	0.3152126810	-0.0487121147



##	1001	1002	1003	1004	1005
##	0.1248673646	0.2245790433	0.2431640682	0.1368669909	0.1251507438
##	1006	1007	1008	1009	1010
##	0.2776207152	0.4229067691	0.4171558541	0.0039486938	-0.0105389252
##	1011	1012	1013	1014	1015
##	-0.2760800204	0.4148953495	0.4671708620	0.0617013853	0.2482261011
##	1016	1017	1018	1019	1020
##	0.1348888516	0.4109392191	0.1838848998	0.2250439603	0.2362953603
##	1021	1022	1023	1024	1025
##	0.0582727629	0.3605360168	0.0472019215	0.1099505345	-0.1248211191
##	1026	1027	1028	1029	1030
##	0.1902532180	-0.0241831063	0.1216941871	0.2194131479	-0.1799366076
##	1031	1032	1033	1034	1035
##	0.0567321478	-0.0418944974	0.4932545297	0.1081777307	0.3110575372
##	1036	1037	1038	1039	1040
##	0.0922235627	0.4254349577	0.2211636347	0.0454181364	0.1712768439
##	1041	1042	1043	1044	1045
##	-0.0786235422	0.1762620085	0.1151827225	-0.0461700392	0.0591871424
##	1046	1047	1048	1049	1050
##	-0.0110093752	0.2092385064	0.1662732613	0.1516848832	0.0810735172
##	1051	1052	1053	1054	1055
##	0.2282384314	0.2223458948	0.0553381682	-0.1509145923	-0.1517539387
##	1056	1057	1058	1059	1060
##	0.1788472791	0.1864901553	0.4948954393	0.5401867251	0.0661659831
##	1061	1062	1063	1064	1065
##	0.6980392254	0.0918760929	0.4171776543	0.0632693264	0.0052168002
##	1066	1067	1068	1069	1070
##	0.1322639252	0.2168485311	0.2442813956	0.4886666248	0.2623225392
##	1071	1072	1073	1074	1075
##	0.3521006850	0.1282945146	0.1573520281	0.2443843665	0.3403342218
##	1076	1077	1078	1079	1080
##	0.0824248540	-0.1835446768	0.3695837006	0.0511417928	0.2132094459
##	1081	1082	1083	1084	1085
##	-0.0500103418	0.2362307745	0.3191312610	0.2673713781	0.2140685280
##	1086	1087	1088	1089	1090
##	0.3278970185	0.5611523759	0.2170713085	0.1490558965	0.0325635527
##	1091	1092	1093	1094	1095
##	0.1856895616	0.2878379229	-0.0263593186	0.2980583407	0.2360352244
##	1096	1097	1098	1099	1100
##	0.2780149759	0.2367932764	0.3085866378	0.0567574693	0.0522895239
##	1101	1102	1103	1104	1105
##	0.2409179558	0.1047031740	0.3295307721	-0.0185326979	0.0832650648
##	1106	1107	1108	1109	1110
##	0.2765364775	0.1943572106	0.1290263283	0.2732603491	0.1389830547
##	1111	1112	1113	1114	1115
##	0.4470191212	-0.1156665962	0.0423302133	0.0071692438	0.1986003741
##	1116	1117	1118	1119	1120
##	0.3319053091	-0.1145627931	0.0590892175	0.1504349898	0.0627579455
##	1121	1122	1123	1124	1125
##	0.2370322637	0.1813160628	0.3996013862	0.4202928934	-0.1088508652

##	1126	1127	1128	1129	1130
##	0.0815041516	0.1381656894	0.0271051543	0.3970915269	0.0067396465
##	1131	1132	1133	1134	1135
##	0.0715843779	0.2238520577	0.0988736840	-0.0027575069	0.1216451682
##	1136	1137	1138	1139	1140
##	0.0195573804	0.4290720671	0.4484630749	0.3039858820	0.0071442778
##	1141	1142	1143	1144	1145
##	0.0346003137	0.2840443983	0.4696453888	0.2248406333	0.2631778468
##	1146	1147	1148	1149	1150
##	0.2819919634	0.0749672079	0.1500338300	0.1253960303	0.1049292726
##	1151	1152	1153	1154	1155
##	-0.0331579043	0.3956581239	0.1871161406	0.5215921498	-0.0577553892
##	1156	1157	1158	1159	1160
##	-0.0364967009	0.1217059832	-0.1213368875	0.0836049220	0.3288328166
##	1161	1162	1163	1164	1165
##	-0.1515538167	0.1664978025	0.1376214884	0.2086988742	0.3416376714
##	1166	1167	1168	1169	1170
##	0.2934429488	0.0261810694	0.4574713371	0.5322853886	0.0681364609
##	1171	1172	1173	1174	1175
##	0.2311134916	0.5465932622	0.2493910502	0.1286295363	-0.0882547923
##	1176	1177	1178	1179	1180
##	0.0568666082	0.1055483960	-0.0826827574	0.2178661477	-0.0395439392
##	1181	1182	1183	1184	1185
##	0.2864512639	0.0372393800	-0.0130407926	-0.0927960187	-0.0894179206
##	1186	1187	1188	1189	1190
##	-0.0644631904	0.2939375521	-0.1627036462	0.3937680406	-0.0888235475
##	1191	1192	1193	1194	1195
##	-0.0154797860	0.1084428410	0.3040252602	0.3240647026	-0.1069638581
##	1196	1197	1198	1199	1200
##	0.0005310306	0.2958580827	0.2786915381	0.1324129699	0.1838334717
##	1201	1202	1203	1204	1205
##	0.1726884722	0.4214554628	0.0277985632	-0.0652702719	0.2488815686
##	1206	1207	1208	1209	1210
##	0.1901007797	0.0102861297	0.1986049858	-0.0693614765	-0.0472340456
##	1211	1212	1213	1214	1215
##	-0.0217146106	0.1762379218	0.1702849493	0.2323094181	0.0268478965
##	1216	1217	1218	1219	1220
##	0.5076368836	0.0754361013	0.0190061175	0.0632475051	0.0419529333
##	1221	1222	1223	1224	1225
##	0.1048730708	0.0053914180	0.2966965464	0.2922829939	0.1943061996
##	1226	1227	1228	1229	1230
##	0.2406696624	0.2863196904	0.0623995220	0.1118273466	0.3666419245
##	1231	1232	1233	1234	1235
##	0.2626781604	0.0589029132	-0.0570187194	0.1122686033	0.0594866678
##	1236	1237	1238	1239	1240
##	0.0737219727	0.3975181758	0.4068635813	0.3358390449	0.2405622275
##	1241	1242	1243	1244	1245
##	0.0056138661	0.2021671178	0.2109557262	0.0799310957	0.2471429207
##	1246	1247	1248	1249	1250
##	0.2679399607	0.2178976425	0.1156567211	0.1837477436	0.4442140951

##	1251	1252	1253	1254	1255
##	0.3071646404	0.0806886658	0.1518284297	0.0073610139	-0.0181202145
##	1256	1257	1258	1259	1260
##	0.5807810899	0.2354259977	0.1573507819	0.1918711598	0.0127380867
##	1261	1262	1263	1264	1265
##	0.0866243046	0.4217003395	0.4584321504	0.1007820299	0.0289054736
##	1266	1267	1268	1269	1270
##	-0.1230551372	0.0715870831	-0.0436900138	0.1811427171	0.0492544448
##	1271	1272	1273	1274	1275
##	0.2191518852	0.3721246677	0.0369981195	0.4090765296	0.2111467662
##	1276	1277	1278	1279	1280
##	0.0372057765	0.1858764275	0.0495268435	0.2017081347	0.3605710369
##	1281	1282	1283	1284	1285
##	0.0726866241	0.3760422070	0.0244185659	-0.0293541423	0.1058897254
##	1286	1287	1288	1289	1290
##	0.2651650826	0.1221285753	0.1263285351	-0.1780411460	-0.0474453572
##	1291	1292	1293	1294	1295
##	0.1640762182	0.1988450117	0.1092936408	0.2250709442	0.2097054761
##	1296	1297	1298	1299	1300
##	0.1652781713	0.1805171483	0.3421934592	-0.0380403801	-0.1026092977
##	1301	1302	1303	1304	1305
##	-0.0576958190	-0.1239645661	0.2365242091	0.2486078572	0.1503844072
##	1306	1307	1308	1309	1310
##	-0.1031459319	0.2805129931	0.1285384211	0.3258465131	0.1668073112
##	1311	1312	1313	1314	1315
##	0.2885672164	0.3098769283	0.1324574200	0.5609508701	-0.1482447163
##	1316	1317	1318	1319	1320
##	0.2342738393	0.0787835615	0.4026013253	0.0218212071	0.1624270535
##	1321	1322	1323	1324	1325
##	0.0354612397	0.2423084992	-0.1729913399	-0.0219296439	0.1708557079
##	1326	1327	1328	1329	1330
##	0.1296730572	0.5011478640	-0.1596585680	0.1672432941	0.1937094965
##	1331	1332	1333	1334	1335
##	-0.0675679620	-0.0141482106	0.5935456589	-0.0953723573	0.3542955230
##	1336	1337	1338	1339	1340
##	-0.0158051583	-0.0403864499	0.1704518419	0.2581003676	0.4512204823
##	1341	1342	1343	1344	1345
##	0.2435127317	0.0812594156	0.1739857478	0.2423632962	0.2168011329
##	1346	1347	1348	1349	1350
##	0.3610277404	0.0857195145	0.2302930583	0.0231714515	0.4618015134
##	1351	1352	1353	1354	1355
##	0.1128360509	-0.1186297752	0.0921728807	0.4377549072	0.2213378536
##	1356	1357	1358	1359	1360
##	0.2394848989	0.0301978711	-0.0156533458	0.1811949676	0.2497382554
##	1361	1362	1363	1364	1365
##	0.1227732386	0.0461768891	0.1973916312	0.1711558424	0.2654803580
##	1366	1367	1368	1369	1370
##	0.3971886169	0.2040426374	0.1815862129	0.3141521362	0.3711801277
##	1371	1372	1373	1374	1375
##	-0.1380110552	0.0919313365	0.2037649208	0.2266004877	0.1169080380

##	1376	1377	1378	1379	1380
##	0.4982294928	-0.0286319386	-0.0286419273	0.2409071712	0.4396260477
##	1381	1382	1383	1384	1385
##	0.2261218877	0.1712666782	0.2428075661	0.0178018983	0.1613155170
##	1386	1387	1388	1389	1390
##	-0.0280804656	0.3031665749	0.2374755229	-0.0451144634	0.2605224817
##	1391	1392	1393	1394	1395
##	0.1385966979	0.3919812839	0.0751604643	0.0077094257	0.1301544523
##	1396	1397	1398	1399	1400
##	0.3515997735	0.5143495338	0.1180034959	-0.0301186749	-0.0380400312
##	1401	1402	1403	1404	1405
##	0.3196101139	0.0534443786	0.3138456835	0.2624130405	0.1003577340
##	1406	1407	1408	1409	1410
##	-0.1154654068	0.3778845050	0.3091638947	0.1187916247	0.0909045795
##	1411	1412	1413	1414	1415
##	0.0127405667	0.1532334517	-0.0016480742	0.2257393556	0.1401771592
##	1416	1417	1418	1419	1420
##	0.1120924685	-0.1039356059	0.1346418123	0.2905070556	0.3085142198
##	1421	1422	1423	1424	1425
##	-0.0497787906	-0.1294879850	0.2501345512	0.1467317748	0.0738832961
##	1426	1427	1428	1429	1430
##	0.3464924332	0.4456164272	0.1205184899	0.2334951146	0.1614587326
##	1431	1432	1433	1434	1435
##	-0.0070072037	-0.0967790389	0.0607678518	0.2991583746	0.0406510123
##	1436	1437	1438	1439	1440
##	0.3316179434	0.5218375707	-0.0316212312	0.3189437313	0.0673011505
##	1441	1442	1443	1444	1445
##	0.0670738391	-0.2578636605	0.2943624081	-0.0461242415	0.0138586020
##	1446	1447	1448	1449	1450
##	0.1039018860	0.0399709847	-0.0043765507	0.0366185750	0.2260382784
##	1451	1452	1453	1454	1455
##	0.3300927552	-0.0101398273	0.0650798877	0.1404654879	0.1372329617
##	1456	1457	1458	1459	1460
##	0.2067861190	0.3316886044	-0.0145924372	0.1619828322	0.3075050433
##	1461	1462	1463	1464	1465
##	0.3974245918	0.3591124241	0.1535395602	0.1581261000	0.2312473107
##	1466	1467	1468	1469	1470
##	0.0488467000	0.0236654686	0.2716603595	0.0439633563	0.0019872194

residuals(x)

##	1	2	3	4	5
##	0.6888411001	-0.1088964172	0.6206014679	-0.3144159878	-0.2253711977
##	6	7	8	9	10
##	-0.1448865005	-0.2188562052	-0.0834714682	-0.1950318406	-0.0900237044
##	11	12	13	14	15
##	-0.1243176550	-0.3597485848	-0.2735026265	-0.0784328548	0.4684821911
##	16	17	18	19	20
##	-0.0820002774	-0.3154608474	-0.1600552155	0.0577612664	-0.2990033452
##	21	22	23	24	25

##	-0.0380092819	0.7334362923	-0.1647833301	-0.2490906171	0.7036909605
##	26	27	28	29	30
##	0.2253646186	0.2494682879	-0.0809190839	0.0192496627	-0.1783704651
##	31	32	33	34	35
##	-0.1429540363	-0.0980954566	-0.2094957527	1.0770425620	0.6351580155
##	36	37	38	39	40
##	0.1049756472	0.6570132216	0.0174171019	-0.4278622276	-0.1046317662
##	41	42	43	44	45
##	-0.0386338614	-0.1233518167	0.4809716994	-0.1090965683	-0.1176655981
##	46	47	48	49	50
##	0.9916885471	-0.1842653551	-0.2059972158	-0.3051387087	0.0611066104
##	51	52	53	54	55
##	0.5850506401	0.5680841474	-0.2716626670	-0.3227872667	-0.3721552098
##	56	57	58	59	60
##	-0.3331763637	-0.1722428014	-0.4194457516	0.1168185335	-0.0127686609
##	61	62	63	64	65
##	-0.2456011314	-0.2656716557	-0.3327768550	-0.1723394650	0.0342622153
##	66	67	68	69	70
##	-0.0699245895	-0.3396764819	-0.0633647890	-0.2924128606	0.6359627020
##	71	72	73	74	75
##	-0.2765315573	-0.0360459575	-0.2308134822	-0.0247452104	-0.0523367516
##	76	77	78	79	80
##	-0.0242730611	-0.1517311781	-0.2238663285	-0.1757717258	-0.2201337034
##	81	82	83	84	85
##	-0.2638640561	-0.2101693010	-0.0049910579	-0.1306974278	-0.1296798659
##	86	87	88	89	90
##	-0.0640107220	-0.1839522339	0.0888354209	-0.0496658165	0.9346938362
##	91	92	93	94	95
##	-0.2071632692	-0.3535933482	-0.2681475675	-0.4337673123	-0.1388419689
##	96	97	98	99	100
##	-0.0313016956	-0.1496215495	0.0167208440	0.0519242562	-0.0579210680
##	101	102	103	104	105
##	0.7047465926	-0.2420077966	0.4694114911	-0.0915630096	0.0799887838
##	106	107	108	109	110
##	0.2101703938	-0.2283662935	0.5607780063	-0.1040288485	-0.2865275676
##	111	112	113	114	115
##	-0.3555829685	0.4476692841	-0.1204276004	-0.1791587661	-0.1362785841
##	116	117	118	119	120
##	-0.0372444545	-0.1820163099	-0.0057605333	-0.0817017005	-0.1296876387
##	121	122	123	124	125
##	-0.2790955933	0.0555989555	0.6749890313	-0.0143556783	0.5676281426
##	126	127	128	129	130
##	-0.2374659258	0.9353091337	0.4912409357	-0.0882466558	-0.0445369274
##	131	132	133	134	135
##	-0.2736802595	-0.1563884270	0.5036014915	-0.0787553675	-0.0914252455
##	136	137	138	139	140
##	-0.0972721126	0.7102966180	0.0886627783	-0.2973895631	-0.2031148635
##	141	142	143	144	145
##	0.7360501604	-0.1527822331	-0.2993736255	-0.3093774242	-0.0425972004
##	146	147	148	149	150

##	-0.1188073914	-0.2306715809	-0.1438254400	-0.1199240848	-0.3175230235
##	151	152	153	154	155
##	-0.1008726006	0.0553402758	-0.2260271137	0.0518181271	-0.1583047741
##	156	157	158	159	160
##	0.1926583119	-0.1081548485	-0.3778126236	0.1015328721	-0.1436762348
##	161	162	163	164	165
##	-0.0977595793	-0.0810039955	-0.1760364155	-0.1163975666	-0.2758180389
##	166	167	168	169	170
##	-0.0496371741	-0.0341415474	-0.0203630529	-0.1196207861	-0.1649792687
##	171	172	173	174	175
##	-0.4102747752	0.5105865409	-0.3021116422	-0.0095840280	-0.1950038379
##	176	177	178	179	180
##	-0.2531506680	-0.1161468858	0.6452264809	-0.0863792878	-0.1514358315
##	181	182	183	184	185
##	-0.2505801702	-0.2477791341	0.5243387513	-0.0921901964	0.0423499517
##	186	187	188	189	190
##	-0.0209703795	0.1098725501	0.2078037404	-0.0339113213	-0.0076599592
##	191	192	193	194	195
##	0.1042922883	-0.1719946758	0.5710193022	0.2255469774	0.0219783201
##	196	197	198	199	200
##	-0.3324987041	-0.3396345849	0.0390533551	0.0262382184	0.0143902490
##	201	202	203	204	205
##	-0.3151268087	0.0307800798	-0.3096346735	-0.1619965052	0.5758278107
##	206	207	208	209	210
##	0.9296723525	-0.2575403780	-0.2734423147	0.0058134631	0.0594545043
##	211	212	213	214	215
##	0.9083582428	-0.0458346128	-0.1522538995	-0.0709711338	0.6092831782
##	216	217	218	219	220
##	-0.2274394788	0.4949115449	0.8255768188	-0.0488650417	0.0441880130
##	221	222	223	224	225
##	0.0015378912	-0.1913050595	-0.1924557156	0.0236820883	-0.0579162608
##	226	227	228	229	230
##	-0.0389505553	-0.1044081502	-0.0830117086	-0.0493581806	0.5163621982
##	231	232	233	234	235
##	-0.1506259101	0.2207854318	-0.0680654637	0.2355972539	0.7231085231
##	236	237	238	239	240
##	0.0623844003	0.8956208910	-0.3027407797	-0.0956057250	0.5345076730
##	241	242	243	244	245
##	0.0108301662	-0.0137750102	-0.1489771171	-0.0268622681	0.1741422173
##	246	247	248	249	250
##	-0.1136854084	-0.1158401697	-0.0611451878	-0.1882844240	-0.0855292824
##	251	252	253	254	255
##	0.8104499878	-0.2165841455	-0.1338751976	-0.3277981183	0.0197244636
##	256	257	258	259	260
##	-0.1509508120	-0.3148121774	0.1026378604	-0.0178701131	0.5858717898
##	261	262	263	264	265
##	-0.2060142314	0.0821373486	-0.2402045019	-0.2995359354	0.6423888508
##	266	267	268	269	270
##	-0.2242217165	-0.1817295036	-0.0106205817	-0.0784945454	0.0972270793
##	271	272	273	274	275

##	-0.1298468089	0.6651234941	0.0078252577	0.0380357866	-0.2144979813
##	276	277	278	279	280
##	-0.1192052398	-0.0926033215	-0.3611609774	-0.1410344221	0.0437188665
##	281	282	283	284	285
##	-0.1131769438	0.0039591765	-0.1619817726	-0.1347152486	-0.5621575483
##	286	287	288	289	290
##	0.0096529271	0.6234379034	0.0205502600	0.5911996330	-0.0928241813
##	291	292	293	294	295
##	-0.4098426635	-0.2428756244	-0.1952453457	0.6227753637	-0.4002812616
##	296	297	298	299	300
##	-0.1138520820	0.7274019497	-0.0346573987	-0.1132632319	-0.0565742371
##	301	302	303	304	305
##	0.0102532817	-0.3010680493	-0.1752655405	-0.0188842378	0.2031305745
##	306	307	308	309	310
##	0.0107371991	-0.0312720920	-0.1916104560	-0.1589537066	-0.2241932646
##	311	312	313	314	315
##	-0.3047280379	-0.1505115204	-0.2948636537	-0.1081453836	-0.2811802015
##	316	317	318	319	320
##	-0.1385550115	-0.2218769487	0.8521107148	-0.4571149927	-0.3442666681
##	321	322	323	324	325
##	-0.2705343927	0.1405504030	-0.0388816115	0.5253521738	0.0756251434
##	326	327	328	329	330
##	-0.1265633489	-0.1640519184	0.7847981688	-0.3247208131	0.1335796573
##	331	332	333	334	335
##	-0.1119317073	-0.2115163498	-0.1755205356	-0.1197350513	0.0800169447
##	336	337	338	339	340
##	-0.3277094737	0.5145173951	-0.2899097304	-0.0185721196	-0.0414362426
##	341	342	343	344	345
##	0.0840496843	-0.1216939065	-0.2293361767	-0.2494429669	-0.0046339702
##	346	347	348	349	350
##	-0.1194743766	-0.3851421661	-0.2291558590	-0.1926496780	0.0394012798
##	351	352	353	354	355
##	-0.2510100829	-0.0593967490	-0.1924733132	-0.1838994307	-0.2100228851
##	356	357	358	359	360
##	-0.0300989940	-0.1948816839	0.3180322695	-0.0109935569	-0.0489342573
##	361	362	363	364	365
##	0.0905672667	-0.0674579941	-0.2410374277	0.6041689231	-0.0847491990
##	366	367	368	369	370
##	0.0614239749	0.6704094481	-0.0229804381	0.6339619811	-0.5340015216
##	371	372	373	374	375
##	0.7361312395	-0.1625392762	-0.2612616817	-0.0080463481	-0.1072343945
##	376	377	378	379	380
##	-0.1541097414	0.1189143547	-0.0295181692	0.7000952603	-0.1201465770
##	381	382	383	384	385
##	-0.1707820524	-0.1505529694	0.6898872501	-0.2829771658	-0.1914247711
##	386	387	388	389	390
##	0.5359160863	-0.0663434080	0.0279732285	-0.1354341108	-0.4214808316
##	391	392	393	394	395
##	-0.0528764175	-0.1110091511	-0.0706018548	0.0441034699	-0.1174034898
##	396	397	398	399	400

##	-0.1032406277	-0.1739497990	-0.4172453946	-0.2547272557	-0.2061997136
##	401	402	403	404	405
##	-0.1602171191	0.0038836598	-0.2253330127	0.0530053612	-0.1123511554
##	406	407	408	409	410
##	0.7638924061	-0.1199667562	-0.1078762827	0.1539570299	-0.2071352332
##	411	412	413	414	415
##	-0.2167990445	-0.1370833223	0.0917054938	-0.0673599646	0.5262026924
##	416	417	418	419	420
##	0.7110577134	-0.2554451867	0.2858730126	-0.1887306983	0.0182989280
##	421	422	423	424	425
##	-0.0574392564	0.7576307119	0.6649076967	-0.0548026964	-0.1169067577
##	426	427	428	429	430
##	-0.1813791588	-0.0712327039	-0.1448547165	0.0259911076	-0.0507996480
##	431	432	433	434	435
##	-0.3512428963	-0.1229273497	-0.0283898678	-0.1858067483	0.1122566652
##	436	437	438	439	440
##	0.7616143393	0.7773539279	-0.2143322046	-0.1769508599	0.7283608220
##	441	442	443	444	445
##	0.5553411850	-0.1679334288	-0.1591954244	0.6642924645	0.0228970643
##	446	447	448	449	450
##	-0.0999022802	0.0621314783	-0.0004806994	-0.0504790175	-0.1027334091
##	451	452	453	454	455
##	-0.2549152341	-0.2664091285	0.0981186713	0.5297843101	0.0023870603
##	456	457	458	459	460
##	0.0762428214	-0.0371717491	0.3863059409	-0.1774524565	-0.3007279128
##	461	462	463	464	465
##	-0.2346768774	-0.1943300794	-0.0433393312	0.3522093339	-0.0455535694
##	466	467	468	469	470
##	-0.1802741549	-0.0003560962	-0.0744563046	-0.1249862792	1.1078601163
##	471	472	473	474	475
##	-0.2117448156	-0.0223696635	-0.1457934951	-0.0332321045	-0.2647314351
##	476	477	478	479	480
##	-0.2074838618	-0.2164198589	-0.1650084125	-0.1164128323	0.5391861482
##	481	482	483	484	485
##	0.6218647068	-0.3023167969	0.7758116899	-0.3170886129	0.0768306401
##	486	487	488	489	490
##	-0.2186845506	-0.2473982831	-0.2666388757	0.0039246045	-0.2411107553
##	491	492	493	494	495
##	-0.2918711212	-0.1906152094	-0.0598230784	-0.2018660223	-0.2498969812
##	496	497	498	499	500
##	0.8967055282	-0.2767763749	0.0157308557	-0.1993315235	-0.0533006910
##	501	502	503	504	505
##	-0.2826650098	-0.1734711631	-0.0644891008	-0.0423226506	0.6484561246
##	506	507	508	509	510
##	-0.2475888579	0.0112821525	-0.1385296697	-0.2625552143	-0.0202289048
##	511	512	513	514	515
##	-0.0572345264	-0.3546154702	-0.3075958693	0.5686265956	0.3802659308
##	516	517	518	519	520
##	-0.0875404402	-0.1557289684	-0.0120876318	-0.0580491088	-0.1612799546
##	521	522	523	524	525



##	-0.0122186697	-0.0994243936	-0.0492635956	-0.1168240054	-0.1426842859
##	526	527	528	529	530
##	0.7028641834	-0.1728223144	-0.0180386702	0.6927034150	-0.0006476435
##	531	532	533	534	535
##	-0.0177589147	-0.0613229772	-0.0858736252	-0.1984838015	0.1691603350
##	536	537	538	539	540
##	-0.1089127492	-0.2602416925	-0.1104568129	0.1230157681	-0.0549551182
##	541	542	543	544	545
##	0.4338389948	0.0159364393	-0.3078249458	-0.3472288224	-0.2368459841
##	546	547	548	549	550
##	-0.0614140041	-0.2237739439	0.6968676382	-0.1235255239	-0.2315003538
##	551	552	553	554	555
##	-0.2031359502	-0.0536890023	0.1235348044	-0.3535420932	-0.2359284560
##	556	557	558	559	560
##	-0.0809421665	-0.0114273816	0.0454321339	-0.1871800336	-0.2887796817
##	561	562	563	564	565
##	-0.1947157980	0.0899261602	0.7162620442	-0.1926026950	-0.2731836768
##	566	567	568	569	570
##	-0.2448212002	0.5679532185	-0.0235048677	0.9087516390	-0.1492412675
##	571	572	573	574	575
##	0.0897567422	-0.3439762440	-0.1842463971	0.6933902941	-0.1011081136
##	576	577	578	579	580
##	-0.2278098349	-0.1247851862	-0.3492703507	-0.4317275857	-0.3004121218
##	581	582	583	584	585
##	-0.1449662620	-0.1266108947	-0.0028480806	-0.1151553999	-0.1121450868
##	586	587	588	589	590
##	0.6674149794	-0.1556883105	0.0808352686	0.1336010120	0.5016538001
##	591	592	593	594	595
##	0.0560158444	0.6383754956	-0.1279067709	0.0074536267	0.0474063017
##	596	597	598	599	600
##	0.7991194055	-0.0619200308	-0.1704777843	0.7653861051	-0.1007643910
##	601	602	603	604	605
##	-0.0145930877	-0.4250704213	-0.4030966133	-0.2759794506	-0.1637973175
##	606	607	608	609	610
##	-0.3647329527	-0.3117233832	1.1156721956	0.8989134341	-0.1087195463
##	611	612	613	614	615
##	-0.1355347750	-0.0149250368	-0.3269101359	-0.0564687694	0.6518167107
##	616	617	618	619	620
##	-0.0153711739	0.0477288683	-0.1600198383	-0.3367105138	0.0159310470
##	621	622	623	624	625
##	-0.4083240174	-0.1034532109	-0.0847952593	-0.1878973566	-0.1932219412
##	626	627	628	629	630
##	-0.1709556116	-0.0108123956	-0.0288963952	-0.0925406175	-0.1076556041
##	631	632	633	634	635
##	-0.1020993833	-0.2181859970	-0.4410887734	-0.2334480118	-0.3286975300
##	636	637	638	639	640
##	-0.0656450660	0.5499442856	0.0812584193	-0.1721266904	-0.0631369854
##	641	642	643	644	645
##	-0.1566662966	-0.2269702300	-0.2107440105	-0.0920956333	-0.1796775542
##	646	647	648	649	650

##	0.6508464988	0.0239688765	-0.0530210161	-0.1406199651	0.0852917793
##	651	652	653	654	655
##	-0.0639319839	-0.1514738862	-0.3653566506	-0.0975354648	0.0634245470
##	656	657	658	659	660
##	-0.1826513591	0.4346839753	-0.1302640018	-0.4280285984	-0.1998590930
##	661	662	663	664	665
##	0.7127223025	-0.1273745114	0.6902677748	0.7817393860	-0.1371718398
##	666	667	668	669	670
##	-0.3202476420	0.7160123811	0.6556083526	-0.0719199442	0.6577756443
##	671	672	673	674	675
##	-0.2539913546	-0.1879825840	-0.1844711507	-0.4884468099	-0.1832822817
##	676	677	678	679	680
##	-0.1829557493	-0.1616189033	-0.0560509244	-0.0549149104	0.0092977493
##	681	682	683	684	685
##	-0.1934847425	0.1086104953	-0.0851176614	0.5208252325	-0.2271881836
##	686	687	688	689	690
##	-0.2853646825	-0.1873621823	-0.0430103775	0.4332681418	0.5821785893
##	691	692	693	694	695
##	-0.2877270119	-0.3338346484	-0.1136926796	0.8117493641	-0.2045077124
##	696	697	698	699	700
##	0.7043235471	0.0959845657	-0.1619068159	-0.0953133140	0.2024538690
##	701	702	703	704	705
##	0.9251725535	0.0617895218	-0.0162230030	-0.2566849855	0.2337654848
##	706	707	708	709	710
##	-0.0142829706	0.6952048045	-0.0954408995	0.1257294710	0.5102825448
##	711	712	713	714	715
##	-0.0939378603	0.4764950364	-0.2048557103	0.1138045732	0.2333758476
##	716	717	718	719	720
##	-0.2776969116	0.1535449940	-0.1785675944	-0.1481932437	-0.1817618847
##	721	722	723	724	725
##	0.5462457259	-0.0391204421	-0.1663349202	0.1805724982	-0.1351597990
##	726	727	728	729	730
##	0.5787343872	-0.1761192766	-0.2054355908	0.1422814657	-0.3685697989
##	731	732	733	734	735
##	-0.2597447803	0.4373460916	0.6227507080	0.1268411578	-0.4077933767
##	736	737	738	739	740
##	-0.2563352075	-0.0135650215	-0.1283604581	0.0065295729	-0.1016235049
##	741	742	743	744	745
##	-0.0858490773	0.1146190518	-0.0860724510	-0.2272673302	0.6414206819
##	746	747	748	749	750
##	-0.3268585886	0.1105151165	-0.3422624535	0.5436122502	1.0102878033
##	751	752	753	754	755
##	-0.0161094488	0.2682966993	0.8174721182	-0.4294288714	-0.2128638818
##	756	757	758	759	760
##	0.1594316335	-0.1350443960	0.0726804344	-0.1215176980	-0.2594108681
##	761	762	763	764	765
##	-0.0666458763	0.8233697734	0.4513151619	-0.2822194453	-0.1113506961
##	766	767	768	769	770
##	-0.1324781168	-0.1703386324	-0.1809546420	-0.2191622991	-0.2700649486
##	771	772	773	774	775

##	0.1945589762	-0.0897417915	-0.1064442201	-0.1327721437	-0.0811020568
##	776	777	778	779	780
##	-0.0710948047	0.5596762581	0.5546068140	-0.1350432514	0.7627076608
##	781	782	783	784	785
##	0.7621129447	-0.3037911387	-0.1948664009	0.0551263516	-0.0268389425
##	786	787	788	789	790
##	-0.1294305521	-0.2189715275	0.0120312543	-0.0709166779	0.9039135007
##	791	792	793	794	795
##	0.0153209790	0.7196458649	0.6145418941	-0.2225141533	-0.2792989502
##	796	797	798	799	800
##	-0.2397474822	0.8522844215	0.7626701775	0.3657236378	-0.0834607111
##	801	802	803	804	805
##	0.6537865706	0.6474450485	-0.1299485528	-0.0425026838	0.0544935375
##	806	807	808	809	810
##	0.0727845266	-0.1573712447	-0.1835717444	0.0072213128	0.0694221986
##	811	812	813	814	815
##	0.0608661520	-0.1464448146	-0.1753009530	0.8551908355	-0.0495631372
##	816	817	818	819	820
##	-0.4565284179	-0.1234560941	-0.0221722985	-0.1308978913	-0.2575861564
##	821	822	823	824	825
##	-0.0345821716	0.0280118891	-0.2020457484	-0.1933797451	-0.3559551236
##	826	827	828	829	830
##	-0.3288555492	-0.0112271457	-0.4258893165	0.7798296920	0.4855238195
##	831	832	833	834	835
##	-0.3225621983	0.7565615374	-0.1102267958	-0.1547941022	-0.0691520350
##	836	837	838	839	840
##	-0.2042417821	0.8291283943	-0.1387107963	0.5110339553	-0.1805190108
##	841	842	843	844	845
##	-0.0446567323	-0.2690496781	0.6924098020	0.0702719552	-0.1078308606
##	846	847	848	849	850
##	-0.4590061726	-0.0406933530	-0.2261421337	-0.1268139715	0.6633974119
##	851	852	853	854	855
##	-0.0854395687	0.0834025155	0.0440047542	-0.3308493006	-0.3087018350
##	856	857	858	859	860
##	0.0821998430	-0.3902135602	0.6648224977	0.2488392833	-0.4403257070
##	861	862	863	864	865
##	0.5656169682	0.0088089650	-0.2477870482	-0.0810948660	0.7510955554
##	866	867	868	869	870
##	-0.1419740512	-0.1972281534	-0.0054481853	-0.2223740324	0.0940643842
##	871	872	873	874	875
##	-0.2380119663	0.7795957328	-0.2285501867	-0.0729849200	-0.0461718995
##	876	877	878	879	880
##	-0.0516294703	-0.2044274226	0.0887047621	0.1319920148	0.0262833018
##	881	882	883	884	885
##	-0.3135761101	-0.2857277523	-0.3448353278	-0.0391810696	-0.1517747574
##	886	887	888	889	890
##	-0.1522559525	-0.1815810963	-0.5227344197	-0.1424856679	-0.4714365747
##	891	892	893	894	895
##	0.0608676450	0.0016753781	0.4597963406	-0.0762842518	0.3376787458
##	896	897	898	899	900

##	-0.3510528929	-0.2330971637	-0.0643518905	0.1204989338	-0.0176875058
##	901	902	903	904	905
##	-0.1007729334	-0.1108485747	-0.1110204727	-0.2383952384	0.0289978015
##	906	907	908	909	910
##	0.1149952769	-0.0918657866	0.0983942517	0.0033752516	-0.4753553696
##	911	912	913	914	915
##	-0.0720826660	0.3069573948	-0.3855802614	0.6925813774	-0.2956051058
##	916	917	918	919	920
##	0.4502654511	0.0908556374	-0.4360692158	-0.2052853121	0.0036656559
##	921	922	923	924	925
##	-0.1035336677	-0.4641069183	0.0631622193	-0.1138108121	-0.2879689351
##	926	927	928	929	930
##	-0.2522097532	-0.0377924642	-0.2440934923	1.0066375381	-0.3859092813
##	931	932	933	934	935
##	-0.3897445534	-0.2424968594	0.7073955022	-0.2609196926	-0.2629618965
##	936	937	938	939	940
##	0.1756124129	-0.2712034352	-0.4130252475	-0.1237599992	0.9952865900
##	941	942	943	944	945
##	0.7036672712	-0.1752306417	0.0879093470	-0.1022969897	-0.0501646374
##	946	947	948	949	950
##	-0.2313849494	0.5321423926	0.6514880762	-0.3215634016	-0.1930960739
##	951	952	953	954	955
##	-0.1278252326	-0.3361018334	0.5487443981	0.8486448497	-0.0312265867
##	956	957	958	959	960
##	0.0590500981	-0.0014425410	-0.0149690019	0.1259122221	-0.0616559612
##	961	962	963	964	965
##	-0.0857319102	-0.4319274796	-0.0350484518	-0.0199938925	-0.2609516277
##	966	967	968	969	970
##	-0.0948887030	0.7788357106	-0.0901233103	-0.1663355967	0.1227516883
##	971	972	973	974	975
##	-0.0129612610	-0.0868571111	-0.0532207906	0.0127311155	-0.3063258935
##	976	977	978	979	980
##	0.7517225872	-0.1401876708	-0.1722049210	0.0768490758	-0.1574573837
##	981	982	983	984	985
##	0.7177968334	0.6116823558	-0.0149526147	0.0442509083	-0.2535034228
##	986	987	988	989	990
##	0.6752164303	-0.3102196370	-0.1508723413	-0.2917942534	-0.2171626236
##	991	992	993	994	995
##	-0.0809813753	-0.3317975099	0.0907065868	-0.1477363757	-0.2088550698
##	996	997	998	999	1000
##	-0.4406505628	-0.3037073020	0.5448542580	-0.3152126810	0.0487121147
##	1001	1002	1003	1004	1005
##	-0.1248673646	-0.2245790433	-0.2431640682	-0.1368669909	-0.1251507438
##	1006	1007	1008	1009	1010
##	-0.2776207152	0.5770932309	0.5828441459	-0.0039486938	0.0105389252
##	1011	1012	1013	1014	1015
##	0.2760800204	-0.4148953495	0.5328291380	-0.0617013853	-0.2482261011
##	1016	1017	1018	1019	1020
##	-0.1348888516	0.5890607809	-0.1838848998	-0.2250439603	-0.2362953603
##	1021	1022	1023	1024	1025

##	-0.0582727629	0.6394639832	-0.0472019215	-0.1099505345	0.1248211191
##	1026	1027	1028	1029	1030
##	-0.1902532180	0.0241831063	-0.1216941871	-0.2194131479	0.1799366076
##	1031	1032	1033	1034	1035
##	-0.0567321478	1.0418944974	0.5067454703	0.8918222693	-0.3110575372
##	1036	1037	1038	1039	1040
##	-0.0922235627	0.5745650423	-0.2211636347	-0.0454181364	0.8287231561
##	1041	1042	1043	1044	1045
##	0.0786235422	-0.1762620085	-0.1151827225	0.0461700392	-0.0591871424
##	1046	1047	1048	1049	1050
##	0.0110093752	-0.2092385064	-0.1662732613	-0.1516848832	-0.0810735172
##	1051	1052	1053	1054	1055
##	-0.2282384314	-0.2223458948	-0.0553381682	0.1509145923	0.1517539387
##	1056	1057	1058	1059	1060
##	-0.1788472791	0.8135098447	0.5051045607	0.4598132749	-0.0661659831
##	1061	1062	1063	1064	1065
##	0.3019607746	-0.0918760929	-0.4171776543	-0.0632693264	-0.0052168002
##	1066	1067	1068	1069	1070
##	-0.1322639252	-0.2168485311	-0.2442813956	0.5113333752	-0.2623225392
##	1071	1072	1073	1074	1075
##	-0.3521006850	-0.1282945146	-0.1573520281	-0.2443843665	-0.3403342218
##	1076	1077	1078	1079	1080
##	-0.0824248540	0.1835446768	0.6304162994	-0.0511417928	-0.2132094459
##	1081	1082	1083	1084	1085
##	0.0500103418	-0.2362307745	-0.3191312610	0.7326286219	-0.2140685280
##	1086	1087	1088	1089	1090
##	0.6721029815	-0.5611523759	-0.2170713085	-0.1490558965	-0.0325635527
##	1091	1092	1093	1094	1095
##	-0.1856895616	-0.2878379229	0.0263593186	-0.2980583407	-0.2360352244
##	1096	1097	1098	1099	1100
##	-0.2780149759	-0.2367932764	-0.3085866378	-0.0567574693	-0.0522895239
##	1101	1102	1103	1104	1105
##	-0.2409179558	-0.1047031740	-0.3295307721	0.0185326979	-0.0832650648
##	1106	1107	1108	1109	1110
##	-0.2765364775	0.8056427894	-0.1290263283	-0.2732603491	-0.1389830547
##	1111	1112	1113	1114	1115
##	0.5529808788	1.1156665962	0.9576697867	-0.0071692438	-0.1986003741
##	1116	1117	1118	1119	1120
##	-0.3319053091	0.1145627931	-0.0590892175	-0.1504349898	-0.0627579455
##	1121	1122	1123	1124	1125
##	-0.2370322637	-0.1813160628	-0.3996013862	-0.4202928934	0.1088508652
##	1126	1127	1128	1129	1130
##	-0.0815041516	-0.1381656894	-0.0271051543	-0.3970915269	-0.0067396465
##	1131	1132	1133	1134	1135
##	-0.0715843779	-0.2238520577	-0.0988736840	0.0027575069	-0.1216451682
##	1136	1137	1138	1139	1140
##	-0.0195573804	0.5709279329	-0.4484630749	-0.3039858820	-0.0071442778
##	1141	1142	1143	1144	1145
##	-0.0346003137	-0.2840443983	-0.4696453888	-0.2248406333	-0.2631778468
##	1146	1147	1148	1149	1150

##	-0.2819919634	-0.0749672079	-0.1500338300	-0.1253960303	-0.1049292726
##	1151	1152	1153	1154	1155
##	0.0331579043	-0.3956581239	-0.1871161406	0.4784078502	0.0577553892
##	1156	1157	1158	1159	1160
##	0.0364967009	-0.1217059832	0.1213368875	-0.0836049220	-0.3288328166
##	1161	1162	1163	1164	1165
##	0.1515538167	-0.1664978025	0.8623785116	-0.2086988742	-0.3416376714
##	1166	1167	1168	1169	1170
##	-0.2934429488	-0.0261810694	0.5425286629	-0.5322853886	-0.0681364609
##	1171	1172	1173	1174	1175
##	-0.2311134916	0.4534067378	-0.2493910502	-0.1286295363	0.0882547923
##	1176	1177	1178	1179	1180
##	-0.0568666082	-0.1055483960	0.0826827574	-0.2178661477	0.0395439392
##	1181	1182	1183	1184	1185
##	-0.2864512639	-0.0372393800	0.0130407926	0.0927960187	0.0894179206
##	1186	1187	1188	1189	1190
##	0.0644631904	0.7060624479	0.1627036462	-0.3937680406	0.0888235475
##	1191	1192	1193	1194	1195
##	0.0154797860	-0.1084428410	-0.3040252602	-0.3240647026	0.1069638581
##	1196	1197	1198	1199	1200
##	-0.0005310306	-0.2958580827	-0.2786915381	-0.1324129699	-0.1838334717
##	1201	1202	1203	1204	1205
##	-0.1726884722	0.5785445372	-0.0277985632	0.0652702719	0.7511184314
##	1206	1207	1208	1209	1210
##	0.8098992203	-0.0102861297	-0.1986049858	0.0693614765	0.0472340456
##	1211	1212	1213	1214	1215
##	0.0217146106	-0.1762379218	-0.1702849493	0.7676905819	-0.0268478965
##	1216	1217	1218	1219	1220
##	-0.5076368836	-0.0754361013	-0.0190061175	-0.0632475051	-0.0419529333
##	1221	1222	1223	1224	1225
##	-0.1048730708	-0.0053914180	0.7033034536	0.7077170061	-0.1943061996
##	1226	1227	1228	1229	1230
##	-0.2406696624	-0.2863196904	-0.0623995220	-0.1118273466	-0.3666419245
##	1231	1232	1233	1234	1235
##	-0.2626781604	-0.0589029132	0.0570187194	-0.1122686033	-0.0594866678
##	1236	1237	1238	1239	1240
##	-0.0737219727	0.6024818242	0.5931364187	-0.3358390449	-0.2405622275
##	1241	1242	1243	1244	1245
##	-0.0056138661	-0.2021671178	-0.2109557262	-0.0799310957	-0.2471429207
##	1246	1247	1248	1249	1250
##	-0.2679399607	0.7821023575	-0.1156567211	-0.1837477436	0.5557859049
##	1251	1252	1253	1254	1255
##	-0.3071646404	-0.0806886658	-0.1518284297	-0.0073610139	0.0181202145
##	1256	1257	1258	1259	1260
##	0.4192189101	-0.2354259977	0.8426492181	-0.1918711598	-0.0127380867
##	1261	1262	1263	1264	1265
##	-0.0866243046	-0.4217003395	0.5415678496	-0.1007820299	-0.0289054736
##	1266	1267	1268	1269	1270
##	0.1230551372	-0.0715870831	0.0436900138	-0.1811427171	-0.0492544448
##	1271	1272	1273	1274	1275

##	-0.2191518852	0.6278753323	-0.0369981195	0.5909234704	-0.2111467662
##	1276	1277	1278	1279	1280
##	-0.0372057765	-0.1858764275	-0.0495268435	-0.2017081347	0.6394289631
##	1281	1282	1283	1284	1285
##	-0.0726866241	0.6239577930	-0.0244185659	0.0293541423	-0.1058897254
##	1286	1287	1288	1289	1290
##	-0.2651650826	-0.1221285753	-0.1263285351	0.1780411460	0.0474453572
##	1291	1292	1293	1294	1295
##	0.8359237818	0.8011549883	-0.1092936408	-0.2250709442	-0.2097054761
##	1296	1297	1298	1299	1300
##	-0.1652781713	-0.1805171483	0.6578065408	1.0380403801	0.1026092977
##	1301	1302	1303	1304	1305
##	0.0576958190	0.1239645661	-0.2365242091	-0.2486078572	-0.1503844072
##	1306	1307	1308	1309	1310
##	0.1031459319	-0.2805129931	-0.1285384211	-0.3258465131	-0.1668073112
##	1311	1312	1313	1314	1315
##	-0.2885672164	-0.3098769283	0.8675425800	0.4390491299	0.1482447163
##	1316	1317	1318	1319	1320
##	-0.2342738393	-0.0787835615	-0.4026013253	-0.0218212071	-0.1624270535
##	1321	1322	1323	1324	1325
##	-0.0354612397	-0.2423084992	0.1729913399	0.0219296439	-0.1708557079
##	1326	1327	1328	1329	1330
##	-0.1296730572	0.4988521360	0.1596585680	-0.1672432941	-0.1937094965
##	1331	1332	1333	1334	1335
##	0.0675679620	0.0141482106	0.4064543411	1.0953723573	-0.3542955230
##	1336	1337	1338	1339	1340
##	0.0158051583	0.0403864499	-0.1704518419	0.7418996324	0.5487795177
##	1341	1342	1343	1344	1345
##	-0.2435127317	-0.0812594156	-0.1739857478	-0.2423632962	-0.2168011329
##	1346	1347	1348	1349	1350
##	-0.3610277404	-0.0857195145	-0.2302930583	-0.0231714515	-0.4618015134
##	1351	1352	1353	1354	1355
##	-0.1128360509	0.1186297752	-0.0921728807	0.5622450928	0.7786621464
##	1356	1357	1358	1359	1360
##	-0.2394848989	-0.0301978711	0.0156533458	-0.1811949676	-0.2497382554
##	1361	1362	1363	1364	1365
##	-0.1227732386	-0.0461768891	-0.1973916312	-0.1711558424	-0.2654803580
##	1366	1367	1368	1369	1370
##	0.6028113831	-0.2040426374	-0.1815862129	-0.3141521362	0.6288198723
##	1371	1372	1373	1374	1375
##	0.1380110552	-0.0919313365	-0.2037649208	-0.2266004877	-0.1169080380
##	1376	1377	1378	1379	1380
##	0.5017705072	0.0286319386	0.0286419273	-0.2409071712	0.5603739523
##	1381	1382	1383	1384	1385
##	-0.2261218877	-0.1712666782	-0.2428075661	-0.0178018983	-0.1613155170
##	1386	1387	1388	1389	1390
##	0.0280804656	-0.3031665749	-0.2374755229	0.0451144634	-0.2605224817
##	1391	1392	1393	1394	1395
##	0.8614033021	-0.3919812839	-0.0751604643	-0.0077094257	-0.1301544523
##	1396	1397	1398	1399	1400

```
## 0.6484002265 0.4856504662 -0.1180034959 0.0301186749 0.0380400312
## 1401 1402 1403 1404 1405
## -0.3196101139 -0.0534443786 -0.3138456835 -0.2624130405 -0.1003577340
## 1406 1407 1408 1409 1410
## 0.1154654068 -0.3778845050 -0.3091638947 -0.1187916247 -0.0909045795
## 1411 1412 1413 1414 1415
## -0.0127405667 -0.1532334517 0.0016480742 -0.2257393556 -0.1401771592
## 1416 1417 1418 1419 1420
## -0.1120924685 0.1039356059 -0.1346418123 -0.2905070556 -0.3085142198
## 1421 1422 1423 1424 1425
## 0.0497787906 0.1294879850 -0.2501345512 -0.1467317748 -0.0738832961
## 1426 1427 1428 1429 1430
## -0.3464924332 -0.4456164272 -0.1205184899 -0.2334951146 -0.1614587326
## 1431 1432 1433 1434 1435
## 0.0070072037 0.0967790389 -0.0607678518 -0.2991583746 -0.0406510123
## 1436 1437 1438 1439 1440
## -0.3316179434 -0.5218375707 0.0316212312 0.6810562687 -0.0673011505
## 1441 1442 1443 1444 1445
## -0.0670738391 0.2578636605 0.7056375919 0.0461242415 0.9861413980
## 1446 1447 1448 1449 1450
## -0.1039018860 -0.0399709847 0.0043765507 -0.0366185750 -0.2260382784
## 1451 1452 1453 1454 1455
## -0.3300927552 0.0101398273 0.9349201123 -0.1404654879 -0.1372329617
## 1456 1457 1458 1459 1460
## -0.2067861190 -0.3316886044 0.0145924372 -0.1619828322 -0.3075050433
## 1461 1462 1463 1464 1465
## -0.3974245918 0.6408875759 -0.1535395602 -0.1581261000 -0.2312473107
## 1466 1467 1468 1469 1470
## -0.0488467000 -0.0236654686 -0.2716603595 -0.0439633563 -0.0019872194
```

*#Anova Table*

**anova(x)**

## Analysis of Variance Table

##

## Response: Attrition

##	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
## i..Age	1	5.039	5.0386	46.2810	1.495e-11	***
## BusinessTravel	2	3.150	1.5750	14.4672	6.011e-07	***
## DailyRate	1	0.560	0.5598	5.1418	0.0235033	*
## DistanceFromHome	1	1.219	1.2189	11.1958	0.0008408	***
## EnvironmentSatisfaction	1	1.913	1.9135	17.5757	2.928e-05	***
## MaritalStatus	2	4.838	2.4192	22.2215	3.122e-10	***
## HourlyRate	1	0.004	0.0040	0.0366	0.8483270	
## JobInvolvement	1	2.961	2.9613	27.2009	2.100e-07	***
## JobLevel	1	2.060	2.0600	18.9218	1.457e-05	***
## JobSatisfaction	1	2.491	2.4912	22.8830	1.897e-06	***
## MonthlyIncome	1	0.026	0.0256	0.2351	0.6278600	
## OverTime	1	12.738	12.7377	116.9998	< 2.2e-16	***
## PercentSalaryHike	1	0.078	0.0783	0.7196	0.3964267	



```
## TotalWorkingYears      1    0.260  0.2598   2.3864 0.1226173
## WorkLifeBalance        1    0.682  0.6816   6.2606 0.0124551 *
## YearsAtCompany         1    0.245  0.2448   2.2490 0.1339161
## YearsInCurrentRole     1    0.849  0.8488   7.7965 0.0053035 **
## YearsSinceLastPromotion 1    1.231  1.2310  11.3072 0.0007922 ***
## YearsWithCurrManager   1    0.804  0.8040   7.3850 0.0066553 **
## Residuals              1448 157.642  0.1089
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

**vcov(x)**

```
##              (Intercept)          i..Age
## (Intercept)      8.217447e-03 -4.587345e-05
## i..Age          -4.587345e-05  1.759376e-06
## BusinessTravelTravel_Frequently -7.832938e-04  1.210830e-06
## BusinessTravelTravel_Rarely     -7.779041e-04  7.680367e-07
## DailyRate        -3.236291e-07  5.822814e-10
## DistanceFromHome -8.923988e-06  2.003963e-08
## EnvironmentSatisfaction -1.768855e-04 -2.016756e-07
## MaritalStatus1    -8.869642e-05 -2.346843e-06
## MaritalStatus2    -1.627878e-04 -1.710370e-06
## HourlyRate        -1.209702e-05 -1.677270e-08
## JobInvolvement    -3.615797e-04 -6.877000e-07
## JobLevel          -3.547658e-04 -1.014789e-06
## JobSatisfaction   -1.859123e-04 -1.866018e-07
## MonthlyIncome     5.503220e-08  4.198699e-10
## OverTime1        -5.620376e-05 -4.932077e-07
## PercentSalaryHike -8.833011e-05 -6.574737e-08
## StandardHours      NA              NA
## TotalWorkingYears  4.694684e-05 -1.721348e-06
## WorkLifeBalance   -4.347923e-04  3.967790e-07
## YearsAtCompany    -1.610852e-05  3.942483e-07
## YearsInCurrentRole 1.166849e-05  9.954890e-08
## YearsSinceLastPromotion -2.082766e-06 -1.209516e-07
## YearsWithCurrManager -2.079536e-05  2.149618e-07
## BusinessTravelTravel_Frequently
## (Intercept)      -7.832938e-04
## i..Age          1.210830e-06
## BusinessTravelTravel_Frequently 1.128950e-03
## BusinessTravelTravel_Rarely     7.352349e-04
## DailyRate        1.165134e-08
## DistanceFromHome 5.766290e-07
## EnvironmentSatisfaction 3.123618e-06
## MaritalStatus1    6.387327e-07
## MaritalStatus2    3.020544e-05
## HourlyRate        -1.149903e-08
## JobInvolvement    -1.639430e-05
## JobLevel          1.037559e-05
## JobSatisfaction   -1.037144e-07
```

## MonthlyIncome	5.731211e-10	
## OverTime1	-2.932895e-05	
## PercentSalaryHike	2.434235e-06	
## StandardHours	NA	
## TotalWorkingYears	-3.436764e-06	
## WorkLifeBalance	-1.266489e-06	
## YearsAtCompany	-2.557210e-07	
## YearsInCurrentRole	9.746342e-07	
## YearsSinceLastPromotion	3.485045e-07	
## YearsWithCurrManager	1.242096e-06	
##	BusinessTravelTravel_Rarely	DailyRate
## (Intercept)	-7.779041e-04	-3.236291e-07
## i..Age	7.680367e-07	5.822814e-10
## BusinessTravelTravel_Frequently	7.352349e-04	1.165134e-08
## BusinessTravelTravel_Rarely	8.430850e-04	9.414516e-09
## DailyRate	9.414516e-09	4.640641e-10
## DistanceFromHome	7.480913e-07	2.184513e-10
## EnvironmentSatisfaction	2.314696e-07	-3.616916e-09
## MaritalStatus1	-1.292047e-05	-2.758185e-08
## MaritalStatus2	3.022079e-05	-3.214523e-08
## HourlyRate	-1.768757e-07	-2.062499e-10
## JobInvolvement	-1.619339e-05	-1.092100e-08
## JobLevel	2.551660e-05	7.213168e-09
## JobSatisfaction	5.032649e-06	-5.734762e-09
## MonthlyIncome	-4.946546e-09	-1.350323e-12
## OverTime1	-1.852194e-05	-2.513401e-09
## PercentSalaryHike	2.462461e-06	-1.023290e-09
## StandardHours	NA	NA
## TotalWorkingYears	-3.196968e-06	-2.053824e-09
## WorkLifeBalance	2.542400e-06	1.039512e-08
## YearsAtCompany	7.144439e-07	3.317002e-09
## YearsInCurrentRole	-6.489010e-07	-4.917253e-09
## YearsSinceLastPromotion	2.635400e-06	1.774525e-09
## YearsWithCurrManager	1.788793e-06	1.410178e-09
##	DistanceFromHome	EnvironmentSatisfaction
## (Intercept)	-8.923988e-06	-1.768855e-04
## i..Age	2.003963e-08	-2.016756e-07
## BusinessTravelTravel_Frequently	5.766290e-07	3.123618e-06
## BusinessTravelTravel_Rarely	7.480913e-07	2.314696e-07
## DailyRate	2.184513e-10	-3.616916e-09
## DistanceFromHome	1.141251e-06	1.317086e-07
## EnvironmentSatisfaction	1.317086e-07	6.283349e-05
## MaritalStatus1	-6.770980e-07	2.832406e-06
## MaritalStatus2	-2.419215e-07	-4.836457e-07
## HourlyRate	-1.503358e-08	1.646817e-07
## JobInvolvement	-9.669465e-08	7.018349e-07
## JobLevel	-1.864018e-06	-4.278873e-06
## JobSatisfaction	3.339314e-08	7.802353e-07
## MonthlyIncome	4.730435e-10	1.087957e-09
## OverTime1	-6.056618e-07	-1.086495e-05

## PercentSalaryHike	-1.026604e-07		5.940381e-07
## StandardHours	NA		NA
## TotalWorkingYears	-3.147735e-08		2.274742e-07
## WorkLifeBalance	3.623714e-07		-2.670335e-06
## YearsAtCompany	2.123615e-08		1.786113e-07
## YearsInCurrentRole	-5.325585e-08		-8.424603e-07
## YearsSinceLastPromotion	-1.620465e-08		-4.616829e-07
## YearsWithCurrManager	4.191782e-09		5.075633e-07
##	MaritalStatus1	MaritalStatus2	
HourlyRate			
## (Intercept)	-8.869642e-05	-1.627878e-04	-1.209702e-05
## i..Age	-2.346843e-06	-1.710370e-06	-1.677270e-08
## BusinessTravelTravel_Frequently	6.387327e-07	3.020544e-05	-1.149903e-08
## BusinessTravelTravel_Rarely	-1.292047e-05	3.022079e-05	-1.768757e-07
## DailyRate	-2.758185e-08	-3.214523e-08	-2.062499e-10
## DistanceFromHome	-6.770980e-07	-2.419215e-07	-1.503358e-08
## EnvironmentSatisfaction	2.832406e-06	-4.836457e-07	1.646817e-07
## MaritalStatus1	4.054413e-04	2.407750e-04	-2.647387e-07
## MaritalStatus2	2.407750e-04	5.754201e-04	-9.722470e-08
## HourlyRate	-2.647387e-07	-9.722470e-08	1.823732e-07
## JobInvolvement	-8.272755e-06	-9.304247e-06	-1.898965e-07
## JobLevel	4.906730e-06	-5.057602e-06	4.837135e-07
## JobSatisfaction	3.099200e-06	4.962067e-06	2.335697e-07
## MonthlyIncome	-3.167241e-09	-7.560540e-10	-7.355523e-11
## OverTime1	1.189778e-06	-8.708183e-06	5.058579e-08
## PercentSalaryHike	-4.077890e-07	9.327665e-07	1.288490e-08
## StandardHours	NA		NA
## TotalWorkingYears	1.760958e-06	8.713968e-07	-6.246804e-09
## WorkLifeBalance	2.875027e-06	4.121349e-06	-1.207288e-08
## YearsAtCompany	1.800053e-08	-9.286138e-07	-1.297564e-08

## YearsInCurrentRole 08	-4.465508e-06	-3.069283e-06	1.747047e-
## YearsSinceLastPromotion 08	-9.816226e-07	1.530337e-06	2.487540e-
## YearsWithCurrManager 08	1.668243e-06	1.634790e-06	1.036277e-
##	JobInvolvement	JobLevel	
JobSatisfaction ## (Intercept) 04	-3.615797e-04	-3.547658e-04	-1.859123e-
## i..Age 07	-6.877000e-07	-1.014789e-06	-1.866018e-
## BusinessTravelTravel_Frequently 07	-1.639430e-05	1.037559e-05	-1.037144e-
## BusinessTravelTravel_Rarely 06	-1.619339e-05	2.551660e-05	5.032649e-
## DailyRate 09	-1.092100e-08	7.213168e-09	-5.734762e-
## DistanceFromHome 08	-9.669465e-08	-1.864018e-06	3.339314e-
## EnvironmentSatisfaction 07	7.018349e-07	-4.278873e-06	7.802353e-
## MaritalStatus1 06	-8.272755e-06	4.906730e-06	3.099200e-
## MaritalStatus2 06	-9.304247e-06	-5.057602e-06	4.962067e-
## HourlyRate 07	-1.898965e-07	4.837135e-07	2.335697e-
## JobInvolvement 06	1.487653e-04	-1.185577e-06	1.589518e-
## JobLevel 06	-1.185577e-06	6.780274e-04	-4.195367e-
## JobSatisfaction 05	1.589518e-06	-4.195367e-06	6.175006e-
## MonthlyIncome 10	4.751016e-10	-1.370500e-07	5.616626e-
## OverTime1 06	6.883557e-07	9.614957e-06	-3.525717e-
## PercentSalaryHike 07	5.874303e-07	2.044729e-06	-3.357832e-
## StandardHours NA	NA	NA	
## TotalWorkingYears 07	4.278776e-07	-8.861944e-06	6.094021e-
## WorkLifeBalance 06	1.649519e-06	-1.156541e-05	2.039518e-
## YearsAtCompany 07	1.746125e-06	-8.546891e-07	-7.298850e-
## YearsInCurrentRole 07	-9.221737e-07	-2.508702e-06	-5.130289e-

## YearsSinceLastPromotion 07	8.608065e-07	1.511086e-06	5.806329e-
## YearsWithCurrManager 06	-2.950698e-06	-4.840760e-06	1.285825e-
##	MonthlyIncome	OverTime1	
PercentSalaryHike			
## (Intercept)	5.503220e-08	-5.620376e-05	-
8.833011e-05			
## i..Age	4.198699e-10	-4.932077e-07	-
6.574737e-08			
## BusinessTravelTravel_Frequently	5.731211e-10	-2.932895e-05	
2.434235e-06			
## BusinessTravelTravel_Rarely	-4.946546e-09	-1.852194e-05	
2.462461e-06			
## DailyRate	-1.350323e-12	-2.513401e-09	-
1.023290e-09			
## DistanceFromHome	4.730435e-10	-6.056618e-07	-
1.026604e-07			
## EnvironmentSatisfaction	1.087957e-09	-1.086495e-05	
5.940381e-07			
## MaritalStatus1	-3.167241e-09	1.189778e-06	-
4.077890e-07			
## MaritalStatus2	-7.560540e-10	-8.708183e-06	
9.327665e-07			
## HourlyRate	-7.355523e-11	5.058579e-08	
1.288490e-08			
## JobInvolvement	4.751016e-10	6.883557e-07	
5.874303e-07			
## JobLevel	-1.370500e-07	9.614957e-06	
2.044729e-06			
## JobSatisfaction	5.616626e-10	-3.525717e-06	-
3.357832e-07			
## MonthlyIncome	3.618738e-11	-1.699460e-09	-
3.272641e-10			
## OverTime1	-1.699460e-09	3.701273e-04	
1.332188e-07			
## PercentSalaryHike	-3.272641e-10	1.332188e-07	
5.591793e-06			
## StandardHours	NA	NA	
NA			
## TotalWorkingYears	-2.194054e-09	-4.034777e-07	-
2.699628e-08			
## WorkLifeBalance	7.108992e-10	5.930020e-06	
4.808115e-09			
## YearsAtCompany	-4.574143e-10	-1.309809e-06	
2.895243e-07			
## YearsInCurrentRole	7.367261e-10	1.221700e-06	-
3.126255e-07			
## YearsSinceLastPromotion	-7.023626e-10	1.352270e-07	
6.474514e-08			

## YearsWithCurrManager	1.863922e-09	3.000276e-06	-
1.437782e-07			
##	StandardHours	TotalWorkingYears	
WorkLifeBalance			
## (Intercept)	NA	4.694684e-05	-
4.347923e-04			
## i..Age	NA	-1.721348e-06	
3.967790e-07			
## BusinessTravelTravel_Frequently	NA	-3.436764e-06	-
1.266489e-06			
## BusinessTravelTravel_Rarely	NA	-3.196968e-06	
2.542400e-06			
## DailyRate	NA	-2.053824e-09	
1.039512e-08			
## DistanceFromHome	NA	-3.147735e-08	
3.623714e-07			
## EnvironmentSatisfaction	NA	2.274742e-07	-
2.670335e-06			
## MaritalStatus1	NA	1.760958e-06	
2.875027e-06			
## MaritalStatus2	NA	8.713968e-07	
4.121349e-06			
## HourlyRate	NA	-6.246804e-09	-
1.207288e-08			
## JobInvolvement	NA	4.278776e-07	
1.649519e-06			
## JobLevel	NA	-8.861944e-06	-
1.156541e-05			
## JobSatisfaction	NA	6.094021e-07	
2.039518e-06			
## MonthlyIncome	NA	-2.194054e-09	
7.108992e-10			
## OverTime1	NA	-4.034777e-07	
5.930020e-06			
## PercentSalaryHike	NA	-2.699628e-08	
4.808115e-09			
## StandardHours	NA	NA	
NA			
## TotalWorkingYears	NA	5.560007e-06	
5.851571e-07			
## WorkLifeBalance	NA	5.851571e-07	
1.506003e-04			
## YearsAtCompany	NA	-1.816779e-06	
6.878569e-07			
## YearsInCurrentRole	NA	-6.156472e-09	-
3.450352e-06			
## YearsSinceLastPromotion	NA	9.082512e-08	
4.293284e-07			
## YearsWithCurrManager	NA	-3.057660e-07	
1.589336e-06			

##	YearsAtCompany	YearsInCurrentRole
## (Intercept)	-1.610852e-05	1.166849e-05
## i..Age	3.942483e-07	9.954890e-08
## BusinessTravelTravel_Frequently	-2.557210e-07	9.746342e-07
## BusinessTravelTravel_Rarely	7.144439e-07	-6.489010e-07
## DailyRate	3.317002e-09	-4.917253e-09
## DistanceFromHome	2.123615e-08	-5.325585e-08
## EnvironmentSatisfaction	1.786113e-07	-8.424603e-07
## MaritalStatus1	1.800053e-08	-4.465508e-06
## MaritalStatus2	-9.286138e-07	-3.069283e-06
## HourlyRate	-1.297564e-08	1.747047e-08
## JobInvolvement	1.746125e-06	-9.221737e-07
## JobLevel	-8.546891e-07	-2.508702e-06
## JobSatisfaction	-7.298850e-07	-5.130289e-07
## MonthlyIncome	-4.574143e-10	7.367261e-10
## OverTime1	-1.309809e-06	1.221700e-06
## PercentSalaryHike	2.895243e-07	-3.126255e-07
## StandardHours	NA	NA
## TotalWorkingYears	-1.816779e-06	-6.156472e-09
## WorkLifeBalance	6.878569e-07	-3.450352e-06
## YearsAtCompany	8.588361e-06	-4.204054e-06
## YearsInCurrentRole	-4.204054e-06	1.531820e-05
## YearsSinceLastPromotion	-2.721619e-06	-1.927062e-06
## YearsWithCurrManager	-5.124263e-06	-4.743655e-06
##	YearsSinceLastPromotion	
YearsWithCurrManager		
## (Intercept)	-2.082766e-06	-2.079536e-05
## i..Age	-1.209516e-07	2.149618e-07
## BusinessTravelTravel_Frequently	3.485045e-07	1.242096e-06
## BusinessTravelTravel_Rarely	2.635400e-06	1.788793e-06
## DailyRate	1.774525e-09	1.410178e-09
## DistanceFromHome	-1.620465e-08	4.191782e-09
## EnvironmentSatisfaction	-4.616829e-07	5.075633e-07
## MaritalStatus1	-9.816226e-07	1.668243e-06
## MaritalStatus2	1.530337e-06	1.634790e-06
## HourlyRate	2.487540e-08	1.036277e-08
## JobInvolvement	8.608065e-07	-2.950698e-06
## JobLevel	1.511086e-06	-4.840760e-06

## JobSatisfaction 06	5.806329e-07	1.285825e-
## MonthlyIncome 09	-7.023626e-10	1.863922e-
## OverTime1 06	1.352270e-07	3.000276e-
## PercentSalaryHike 07	6.474514e-08	-1.437782e-
## StandardHours NA	NA	
## TotalWorkingYears 07	9.082512e-08	-3.057660e-
## WorkLifeBalance 06	4.293284e-07	1.589336e-
## YearsAtCompany 06	-2.721619e-06	-5.124263e-
## YearsInCurrentRole 06	-1.927062e-06	-4.743655e-
## YearsSinceLastPromotion 07	1.193628e-05	-3.744738e-
## YearsWithCurrManager 05	-3.744738e-07	1.615303e-

**cov2cor(vcov(x))**

## Warning in cov2cor(vcov(x)): diag(.) had 0 or NA entries; non-finite result is  
## doubtful

##	(Intercept)	i..Age
## (Intercept)	1.000000000	-0.38151678
## i..Age	-0.381516783	1.000000000
## BusinessTravelTravel_Frequently	-0.257169187	0.02716855
## BusinessTravelTravel_Rarely	-0.295543836	0.01994192
## DailyRate	-0.165725796	0.02037814
## DistanceFromHome	-0.092150963	0.01414229
## EnvironmentSatisfaction	-0.246166086	-0.01918132
## MaritalStatus1	-0.048592994	-0.08787002
## MaritalStatus2	-0.074861886	-0.05375490
## HourlyRate	-0.312485256	-0.02961032
## JobInvolvement	-0.327027872	-0.04250782
## JobLevel	-0.150296786	-0.02938143
## JobSatisfaction	-0.260988250	-0.01790267
## MonthlyIncome	0.100918273	0.05262072
## OverTime1	-0.032227109	-0.01932747
## PercentSalaryHike	-0.412064128	-0.02096156
## StandardHours	NA	NA
## TotalWorkingYears	0.219634336	-0.55036612
## WorkLifeBalance	-0.390841341	0.02437566
## YearsAtCompany	-0.060636223	0.10142273



## YearsInCurrentRole	0.032888371	0.01917579
## YearsSinceLastPromotion	-0.006650244	-0.02639354
## YearsWithCurrManager	-0.057078293	0.04032318
##	BusinessTravelTravel_Frequently	
## (Intercept)	-0.2571691874	
## i..Age	0.0271685518	
## BusinessTravelTravel_Frequently	1.0000000000	
## BusinessTravelTravel_Rarely	0.7536212222	
## DailyRate	0.0160971748	
## DistanceFromHome	0.0160645463	
## EnvironmentSatisfaction	0.0117280276	
## MaritalStatus1	0.0009440996	
## MaritalStatus2	0.0374761759	
## HourlyRate	-0.0008013890	
## JobInvolvement	-0.0400041115	
## JobLevel	0.0118591020	
## JobSatisfaction	-0.0003928103	
## MonthlyIncome	0.0028355054	
## OverTime1	-0.0453715524	
## PercentSalaryHike	0.0306372410	
## StandardHours	NA	
## TotalWorkingYears	-0.0433785127	
## WorkLifeBalance	-0.0030715051	
## YearsAtCompany	-0.0025970119	
## YearsInCurrentRole	0.0074114043	
## YearsSinceLastPromotion	0.0030021790	
## YearsWithCurrManager	0.0091979424	
##	BusinessTravelTravel_Rarely	DailyRate
## (Intercept)	-0.295543836	-0.165725796
## i..Age	0.019941918	0.020378143
## BusinessTravelTravel_Frequently	0.753621222	0.016097175
## BusinessTravelTravel_Rarely	1.000000000	0.015051277
## DailyRate	0.015051277	1.000000000
## DistanceFromHome	0.024117276	0.009492378
## EnvironmentSatisfaction	0.001005687	-0.021181361
## MaritalStatus1	-0.022099297	-0.063587295
## MaritalStatus2	0.043388796	-0.062206403
## HourlyRate	-0.014264353	-0.022419411
## JobInvolvement	-0.045724732	-0.041564520
## JobLevel	0.033749203	0.012859186
## JobSatisfaction	0.022056788	-0.033877221
## MonthlyIncome	-0.028319645	-0.010420056
## OverTime1	-0.033156996	-0.006064532
## PercentSalaryHike	0.035863956	-0.020087888
## StandardHours	NA	NA
## TotalWorkingYears	-0.046694411	-0.040433063
## WorkLifeBalance	0.007135021	0.039321278
## YearsAtCompany	0.008396095	0.052541398
## YearsInCurrentRole	-0.005710037	-0.058321649
## YearsSinceLastPromotion	0.026270981	0.023842872

## YearsWithCurrManager	0.015328418	0.016287629
##	DistanceFromHome	EnvironmentSatisfaction
## (Intercept)	-0.0921509625	-0.246166086
## i..Age	0.0141422874	-0.019181320
## BusinessTravelTravel_Frequently	0.0160645463	0.011728028
## BusinessTravelTravel_Rarely	0.0241172759	0.001005687
## DailyRate	0.0094923781	-0.021181361
## DistanceFromHome	1.0000000000	0.015553494
## EnvironmentSatisfaction	0.0155534938	1.0000000000
## MaritalStatus1	-0.0314772539	0.017745811
## MaritalStatus2	-0.0094404196	-0.002543544
## HourlyRate	-0.0329527229	0.048648470
## JobInvolvement	-0.0074209743	0.007259196
## JobLevel	-0.0670094287	-0.020730520
## JobSatisfaction	0.0039778456	0.012525968
## MonthlyIncome	0.0736091539	0.022815887
## OverTime1	-0.0294689005	-0.071245376
## PercentSalaryHike	-0.0406384012	0.031691527
## StandardHours	NA	NA
## TotalWorkingYears	-0.0124959668	0.012170232
## WorkLifeBalance	0.0276407841	-0.027450942
## YearsAtCompany	0.0067831281	0.007688793
## YearsInCurrentRole	-0.0127371659	-0.027155014
## YearsSinceLastPromotion	-0.0043905045	-0.016858294
## YearsWithCurrManager	0.0009762947	0.015931899
##	MaritalStatus1	MaritalStatus2
## (Intercept)	-0.0485929943	-0.074861886
## i..Age	-0.0878700245	-0.053754903
## BusinessTravelTravel_Frequently	0.0009440996	0.037476176
## BusinessTravelTravel_Rarely	-0.0220992969	0.043388796
## DailyRate	-0.0635872952	-0.062206403
## DistanceFromHome	-0.0314772539	-0.009440420
## EnvironmentSatisfaction	0.0177458112	-0.002543544
## MaritalStatus1	1.0000000000	0.498488180
## MaritalStatus2	0.4984881796	1.0000000000
## HourlyRate	-0.0307873929	-0.009490817
## JobInvolvement	-0.0336849034	-0.031800787
## JobLevel	0.0093584643	-0.008097082
## JobSatisfaction	0.0195869543	0.026323974
## MonthlyIncome	-0.0261480054	-0.005239402
## OverTime1	0.0030713290	-0.018869459
## PercentSalaryHike	-0.0085643806	0.016443903
## StandardHours	NA	NA
## TotalWorkingYears	0.0370891812	0.015405853
## WorkLifeBalance	0.0116349644	0.014000192
## YearsAtCompany	0.0003050466	-0.013209533
## YearsInCurrentRole	-0.0566634618	-0.032691934
## YearsSinceLastPromotion	-0.0141106172	0.018465450
## YearsWithCurrManager	0.0206142787	0.016956742
##	JobInvolvement	JobLevel

JobSatisfaction			
## (Intercept)	-0.327027872	-0.150296786	-
0.2609882499			
## i..Age	-0.042507823	-0.029381432	-
0.0179026665			
## BusinessTravelTravel_Frequently	-0.040004112	0.011859102	-
0.0003928103			
## BusinessTravelTravel_Rarely	-0.045724732	0.033749203	
0.0220567877			
## DailyRate	-0.041564520	0.012859186	-
0.0338772207			
## DistanceFromHome	-0.007420974	-0.067009429	
0.0039778456			
## EnvironmentSatisfaction	0.007259196	-0.020730520	
0.0125259680			
## MaritalStatus1	-0.033684903	0.009358464	
0.0195869543			
## MaritalStatus2	-0.031800787	-0.008097082	
0.0263239737			
## HourlyRate	-0.036457393	0.043499483	
0.0696012930			
## JobInvolvement	1.000000000	-0.003732976	
0.0165842495			
## JobLevel	-0.003732976	1.000000000	-
0.0205034860			
## JobSatisfaction	0.016584250	-0.020503486	
1.0000000000			
## MonthlyIncome	0.006475258	-0.874936863	
0.0118816904			
## OverTime1	0.002933503	0.019193234	-
0.0233213236			
## PercentSalaryHike	0.020367135	0.033207538	-
0.0180702758			
## StandardHours	NA	NA	
NA			
## TotalWorkingYears	0.014877537	-0.144333694	
0.0328887688			
## WorkLifeBalance	0.011020302	-0.036193007	
0.0211493023			
## YearsAtCompany	0.048850530	-0.011200294	-
0.0316942581			
## YearsInCurrentRole	-0.019317819	-0.024616239	-
0.0166808958			
## YearsSinceLastPromotion	0.020427732	0.016796974	
0.0213869274			
## YearsWithCurrManager	-0.060193114	-0.046255449	
0.0407132732			
##	MonthlyIncome	OverTime1	
PercentSalaryHike			
## (Intercept)	0.100918273	-0.032227109	-

0.4120641276			
## i..Age	0.052620724	-0.019327469	-
0.0209615570			
## BusinessTravelTravel_Frequently	0.002835505	-0.045371552	
0.0306372410			
## BusinessTravelTravel_Rarely	-0.028319645	-0.033156996	
0.0358639557			
## DailyRate	-0.010420056	-0.006064532	-
0.0200878879			
## DistanceFromHome	0.073609154	-0.029468901	-
0.0406384012			
## EnvironmentSatisfaction	0.022815887	-0.071245376	
0.0316915268			
## MaritalStatus1	-0.026148005	0.003071329	-
0.0085643806			
## MaritalStatus2	-0.005239402	-0.018869459	
0.0164439027			
## HourlyRate	-0.028632183	0.006157047	
0.0127592503			
## JobInvolvement	0.006475258	0.002933503	
0.0203671351			
## JobLevel	-0.874936863	0.019193234	
0.0332075378			
## JobSatisfaction	0.011881690	-0.023321324	-
0.0180702758			
## MonthlyIncome	1.000000000	-0.014684418	-
0.0230061660			
## OverTime1	-0.014684418	1.000000000	
0.0029282919			
## PercentSalaryHike	-0.023006166	0.002928292	
1.0000000000			
## StandardHours	NA	NA	
NA			
## TotalWorkingYears	-0.154678874	-0.008894187	-
0.0048416203			
## WorkLifeBalance	0.009629785	0.025116995	
0.0001656862			
## YearsAtCompany	-0.025946333	-0.023231508	
0.0417786397			
## YearsInCurrentRole	0.031291304	0.016225016	-
0.0337788632			
## YearsSinceLastPromotion	-0.033794675	0.002034479	
0.0079249610			
## YearsWithCurrManager	0.077094285	0.038802402	-
0.0151283143			
##	StandardHours	TotalWorkingYears	
WorkLifeBalance			
## (Intercept)	NA	0.2196343357	-
0.3908413414			
## i..Age	NA	-0.5503661187	

0.0243756616			
## BusinessTravelTravel_Frequently	NA	-0.0433785127	-
0.0030715051			
## BusinessTravelTravel_Rarely	NA	-0.0466944105	
0.0071350207			
## DailyRate	NA	-0.0404330635	
0.0393212780			
## DistanceFromHome	NA	-0.0124959668	
0.0276407841			
## EnvironmentSatisfaction	NA	0.0121702323	-
0.0274509422			
## MaritalStatus1	NA	0.0370891812	
0.0116349644			
## MaritalStatus2	NA	0.0154058533	
0.0140001920			
## HourlyRate	NA	-0.0062035413	-
0.0023036550			
## JobInvolvement	NA	0.0148775368	
0.0110203019			
## JobLevel	NA	-0.1443336941	-
0.0361930071			
## JobSatisfaction	NA	0.0328887688	
0.0211493023			
## MonthlyIncome	NA	-0.1546788736	
0.0096297847			
## OverTime1	NA	-0.0088941871	
0.0251169951			
## PercentSalaryHike	NA	-0.0048416203	
0.0001656862			
## StandardHours	1	NA	
NA			
## TotalWorkingYears	NA	1.0000000000	
0.0202218978			
## WorkLifeBalance	NA	0.0202218978	
1.0000000000			
## YearsAtCompany	NA	-0.2629113150	
0.0191262598			
## YearsInCurrentRole	NA	-0.0006670992	-
0.0718367546			
## YearsSinceLastPromotion	NA	0.0111489444	
0.0101260998			
## YearsWithCurrManager	NA	-0.0322644594	
0.0322237337			
##	YearsAtCompany	YearsInCurrentRole	
## (Intercept)	-0.0606362226	0.0328883714	
## i..Age	0.1014227334	0.0191757923	
## BusinessTravelTravel_Frequently	-0.0025970119	0.0074114043	
## BusinessTravelTravel_Rarely	0.0083960946	-0.0057100371	
## DailyRate	0.0525413985	-0.0583216486	
## DistanceFromHome	0.0067831281	-0.0127371659	

## EnvironmentSatisfaction	0.0076887933	-0.0271550141
## MaritalStatus1	0.0003050466	-0.0566634618
## MaritalStatus2	-0.0132095325	-0.0326919338
## HourlyRate	-0.0103679560	0.0104525039
## JobInvolvement	0.0488505305	-0.0193178187
## JobLevel	-0.0112002936	-0.0246162388
## JobSatisfaction	-0.0316942581	-0.0166808958
## MonthlyIncome	-0.0259463327	0.0312913041
## OverTime1	-0.0232315081	0.0162250158
## PercentSalaryHike	0.0417786397	-0.0337788632
## StandardHours	NA	NA
## TotalWorkingYears	-0.2629113150	-0.0006670992
## WorkLifeBalance	0.0191262598	-0.0718367546
## YearsAtCompany	1.0000000000	-0.3665298014
## YearsInCurrentRole	-0.3665298014	1.0000000000
## YearsSinceLastPromotion	-0.2688052208	-0.1425139339
## YearsWithCurrManager	-0.4350600190	-0.3015658692
##	YearsSinceLastPromotion	
YearsWithCurrManager		
## (Intercept)	-0.006650244	-
0.0570782928		
## i..Age	-0.026393543	
0.0403231811		
## BusinessTravelTravel_Frequently	0.003002179	
0.0091979424		
## BusinessTravelTravel_Rarely	0.026270981	
0.0153284177		
## DailyRate	0.023842872	
0.0162876291		
## DistanceFromHome	-0.004390504	
0.0009762947		
## EnvironmentSatisfaction	-0.016858294	
0.0159318992		
## MaritalStatus1	-0.014110617	
0.0206142787		
## MaritalStatus2	0.018465450	
0.0169567421		
## HourlyRate	0.016859903	
0.0060376552		
## JobInvolvement	0.020427732	-
0.0601931138		
## JobLevel	0.016796974	-
0.0462554487		
## JobSatisfaction	0.021386927	
0.0407132732		
## MonthlyIncome	-0.033794675	
0.0770942847		
## OverTime1	0.002034479	
0.0388024016		
## PercentSalaryHike	0.007924961	-

```

0.0151283143
## StandardHours NA
NA
## TotalWorkingYears 0.011148944 -
0.0322644594
## WorkLifeBalance 0.010126100
0.0322237337
## YearsAtCompany -0.268805221 -
0.4350600190
## YearsInCurrentRole -0.142513934 -
0.3015658692
## YearsSinceLastPromotion 1.000000000 -
0.0269686876
## YearsWithCurrManager -0.026968688
1.0000000000

temp <- influence.measures(x)

## Warning in abbreviate(vn): abbreviate used with non-ASCII chars

temp

## Influence measures of
## lm(formula = Attrition ~ i..Age + BusinessTravel + DailyRate +
DistanceFromHome + EnvironmentSatisfaction + MaritalStatus + HourlyRate
+ JobInvolvement + JobLevel + JobSatisfaction + MaritalStatus +
MonthlyIncome + OverTime + PercentSalaryHike + StandardHours +
TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
data = emp_churn) :
##
##          dfb.1_ dfb.i.Ag dfb.BTT_F dfb.BTT_R dfb.DlyR dfb.DsFH dfb.EnvS
## 1  1.80e-02  6.13e-02 -5.36e-03  1.79e-02  3.96e-02 -5.94e-02 -4.01e-02
## 2  1.06e-02 -1.90e-02 -1.34e-02 -1.19e-03  1.09e-02  2.41e-03 -3.16e-03
## 3 -2.66e-02  1.77e-02 -2.89e-03  1.87e-02  7.38e-02 -4.29e-02  5.17e-02
## 4 -3.95e-03  5.64e-03 -3.06e-02  4.70e-03 -3.43e-02  1.86e-02 -2.42e-02
## 5 -3.42e-02  1.76e-02  1.97e-03 -5.04e-03  9.23e-03  1.42e-02  2.88e-02
## 6 -2.10e-03  1.88e-03 -1.55e-02  3.56e-04 -5.23e-03  9.51e-03 -1.47e-02
## 7  2.95e-02 -4.80e-02  1.76e-03 -3.48e-03 -2.00e-02  1.54e-02 -3.24e-03
## 8  1.15e-02 -7.12e-04 -1.58e-03 -4.72e-03 -8.72e-03 -1.27e-02 -8.43e-03
## 9  1.14e-02 -1.19e-02 -2.44e-02 -3.59e-03  2.04e-02 -2.70e-02 -1.99e-02
## 10 9.67e-04  8.01e-03  9.29e-05 -2.95e-03 -7.74e-03 -1.50e-02 -2.67e-03
## 11 2.02e-03 -2.78e-03  8.45e-04 -2.76e-03  4.24e-04 -8.17e-03  1.48e-02
## 12 -2.44e-02  2.29e-02  2.62e-03 -1.26e-02  4.12e-02 -2.01e-02 -2.96e-02
## 13 -2.11e-02  2.11e-03 -2.67e-03 -1.46e-02  6.76e-03 -4.72e-02  3.42e-02
## 14 4.75e-03 -3.35e-03 -7.45e-04 -3.71e-03 -8.07e-03 -8.27e-03  3.96e-03
## 15 3.98e-02 -2.29e-02 -3.48e-03  1.60e-02 -5.88e-02  7.04e-02  5.63e-03
## 16 -1.23e-03  5.07e-03 -6.83e-04 -3.82e-03 -9.77e-03 -1.00e-02  5.24e-03
## 17 -2.22e-02  7.57e-03  3.82e-03 -7.40e-03  3.21e-02  1.37e-02  4.08e-02
## 18 -4.04e-03  1.75e-02  3.35e-02  3.84e-02 -6.29e-03 -9.71e-03 -1.52e-02
## 19 -2.23e-03  1.59e-03 -1.41e-04  1.62e-03  5.24e-03 -4.02e-03 -6.85e-03

```

## 20	-6.77e-03	-2.01e-02	3.68e-03	-7.07e-03	2.41e-02	1.62e-02	-2.35e-02
## 21	-1.87e-03	4.54e-03	7.64e-03	8.67e-03	1.67e-03	2.39e-04	4.36e-03
## 22	-1.96e-02	7.07e-03	5.27e-03	2.77e-02	6.79e-02	1.30e-03	2.09e-02
## 23	-1.66e-02	1.04e-03	5.20e-04	-4.90e-03	9.19e-03	1.04e-03	2.04e-02
## 24	3.38e-03	2.24e-02	6.46e-04	-8.99e-03	1.94e-02	-1.43e-02	-7.74e-03
## 25	5.56e-02	2.06e-03	-5.18e-03	1.66e-02	-4.67e-03	-1.54e-02	-3.59e-02
## 26	-1.88e-03	1.49e-02	2.60e-03	8.51e-03	1.71e-02	-7.83e-03	2.91e-03
## 27	1.08e-02	-4.04e-03	2.82e-02	2.64e-03	2.45e-02	1.72e-02	-1.36e-02
## 28	-2.54e-03	-6.46e-03	6.24e-05	-2.24e-03	1.74e-03	2.63e-04	-1.03e-03
## 29	8.00e-04	-1.55e-05	-3.90e-05	7.66e-04	-8.29e-04	-3.64e-04	-2.28e-03
## 30	-1.46e-02	2.25e-03	4.86e-04	-3.23e-03	3.65e-03	1.20e-02	8.78e-03
## 31	-2.00e-03	2.24e-03	1.02e-03	-3.86e-03	-3.64e-03	8.59e-03	-3.01e-03
## 32	1.25e-02	-9.93e-03	3.58e-04	-3.01e-03	-1.30e-02	-1.75e-03	-7.30e-03
## 33	-8.71e-03	1.12e-02	8.02e-04	-7.50e-03	2.35e-02	-1.38e-03	-2.27e-02
## 34	-7.61e-02	-1.19e-01	-1.18e-02	2.87e-02	8.84e-03	-5.64e-02	9.89e-02
## 35	4.79e-02	-8.70e-02	-9.49e-03	1.38e-02	-6.01e-03	-5.71e-02	-3.59e-02
## 36	-7.49e-03	1.26e-02	6.06e-04	4.02e-03	8.54e-03	-6.57e-03	9.83e-03
## 37	-3.24e-02	1.57e-01	4.22e-05	2.10e-02	1.30e-02	-4.12e-02	-9.07e-02
## 38	-1.65e-03	8.92e-04	2.58e-05	5.67e-04	1.74e-04	-1.22e-03	1.74e-03
## 39	-8.89e-03	-1.17e-02	3.13e-03	-9.02e-03	-6.89e-03	1.65e-02	2.77e-02
## 40	2.73e-03	4.96e-03	-1.10e-02	9.62e-04	-6.62e-03	9.09e-03	-2.42e-03
## 41	1.43e-03	-2.51e-03	-2.59e-04	-1.72e-03	2.78e-03	1.69e-03	-8.17e-04
## 42	-7.51e-03	2.75e-03	-9.94e-04	-5.21e-03	-1.11e-02	7.04e-03	-1.03e-02
## 43	8.72e-02	-5.03e-03	4.74e-03	2.40e-02	6.46e-02	8.11e-02	-6.17e-02
## 44	-1.65e-04	7.20e-03	-1.24e-02	-6.95e-04	-4.90e-03	1.05e-03	-9.94e-03
## 45	9.16e-03	8.66e-03	-1.30e-02	-1.16e-03	1.55e-03	1.10e-02	-3.14e-03
## 46	-2.67e-03	-2.90e-02	4.11e-03	3.80e-02	1.16e-01	3.34e-02	-6.44e-02
## 47	1.29e-03	2.69e-03	3.65e-02	4.03e-02	-1.21e-02	-2.29e-02	9.28e-03
## 48	6.94e-03	-1.27e-03	-4.45e-05	-6.10e-03	1.71e-02	-1.94e-02	8.04e-03
## 49	4.70e-02	-2.99e-02	-3.21e-02	2.32e-04	-2.58e-02	1.65e-02	3.87e-02
## 50	-7.88e-03	3.79e-03	1.97e-04	2.24e-03	4.76e-03	-3.62e-04	5.82e-03
## 51	1.03e-02	-1.74e-02	-9.82e-03	1.38e-02	-1.86e-02	-6.19e-02	-8.25e-02
## 52	3.89e-02	-5.43e-03	-3.98e-03	1.67e-02	7.44e-02	-1.85e-02	3.03e-03
## 53	1.75e-02	-2.61e-02	-2.08e-03	-1.13e-02	-3.51e-02	2.54e-02	1.77e-02
## 54	-3.27e-02	8.09e-03	6.65e-02	7.85e-02	-2.10e-02	-2.60e-03	-3.96e-03
## 55	-2.33e-03	3.34e-02	-1.19e-03	-1.57e-02	-4.46e-02	-4.56e-02	-4.53e-03
## 56	-5.88e-03	1.26e-02	-3.32e-02	3.51e-03	1.93e-02	2.61e-02	4.41e-02
## 57	6.31e-03	-2.60e-03	-2.09e-02	-9.69e-04	-9.68e-04	-1.20e-02	6.73e-03
## 58	-1.38e-02	-1.93e-02	1.37e-03	-1.17e-02	-3.05e-02	-6.14e-02	-2.04e-03
## 59	-5.30e-03	-7.16e-03	1.57e-03	5.96e-03	-5.96e-03	-3.05e-03	1.18e-02
## 60	5.84e-04	-8.56e-04	-2.14e-04	-7.23e-04	-9.00e-04	9.59e-04	1.70e-03
## 61	3.87e-03	8.49e-03	1.25e-03	-9.20e-03	1.95e-02	2.29e-02	3.41e-02
## 62	1.75e-02	-1.14e-02	-3.00e-02	-5.59e-03	3.85e-04	-5.21e-02	-2.50e-02
## 63	-1.69e-02	-5.45e-03	-1.59e-04	-1.61e-02	-2.27e-02	5.71e-03	2.25e-02
## 64	2.23e-03	-2.33e-02	2.64e-04	-5.76e-03	-2.34e-02	-2.52e-02	2.34e-02
## 65	-6.83e-04	-1.49e-03	3.19e-04	1.74e-03	2.70e-03	-3.36e-04	2.57e-04
## 66	4.87e-03	-7.25e-03	-1.10e-04	-2.37e-03	-1.11e-04	8.55e-05	-5.43e-03
## 67	-2.66e-03	-2.39e-02	-3.95e-02	-1.26e-03	-3.17e-02	-7.92e-03	1.66e-02
## 68	-1.31e-03	5.30e-03	-1.16e-05	-1.89e-03	-6.01e-03	1.40e-03	3.44e-03
## 69	-2.54e-02	-8.03e-03	-3.07e-02	3.36e-03	8.39e-03	2.50e-02	1.29e-02



## 70	3.53e-03	3.88e-02	-3.06e-04	1.85e-02	-6.53e-02	-2.62e-03	6.03e-02
## 71	-2.20e-02	-4.90e-02	-2.98e-02	9.90e-04	-2.60e-02	2.14e-02	3.64e-02
## 72	2.62e-03	1.82e-03	-1.44e-04	-1.18e-03	-3.45e-03	2.75e-03	-1.08e-03
## 73	8.57e-03	-6.99e-03	-5.50e-04	-8.00e-03	-1.48e-02	1.74e-02	-5.23e-03
## 74	-2.09e-04	8.71e-04	3.79e-05	-7.21e-04	1.15e-03	2.06e-03	1.05e-03
## 75	-3.26e-04	-1.36e-03	5.65e-04	-1.07e-03	7.40e-03	1.26e-03	2.49e-03
## 76	2.34e-03	1.22e-03	-9.26e-05	-1.10e-03	1.96e-04	4.88e-04	-6.62e-04
## 77	-1.91e-02	4.87e-03	8.30e-05	-5.38e-03	-9.69e-04	1.24e-02	-8.06e-04
## 78	1.38e-04	-2.29e-03	2.78e-03	-1.74e-03	2.86e-02	3.97e-03	-1.90e-02
## 79	-1.49e-02	5.54e-03	1.35e-03	-3.94e-03	1.21e-02	-9.55e-04	2.26e-02
## 80	2.33e-02	-7.06e-03	-9.21e-06	-8.07e-03	-3.73e-03	1.22e-02	1.34e-02
## 81	-2.26e-02	2.08e-02	2.12e-03	-7.01e-03	8.23e-04	2.37e-02	-2.05e-02
## 82	-1.06e-02	-1.15e-02	-1.19e-03	-9.06e-03	-2.05e-02	1.44e-02	1.25e-02
## 83	1.23e-06	-2.00e-04	5.73e-05	-8.07e-05	7.59e-04	4.14e-04	5.98e-04
## 84	-1.83e-02	4.21e-03	2.66e-02	3.00e-02	7.51e-03	5.87e-03	8.88e-03
## 85	4.63e-03	-2.65e-03	-1.40e-04	-4.29e-03	-9.65e-03	1.19e-02	1.58e-02
## 86	-7.33e-03	4.19e-03	5.01e-04	-1.74e-03	-7.36e-03	1.56e-03	-5.74e-03
## 87	-1.77e-02	1.90e-02	-3.08e-04	-6.45e-03	1.01e-02	1.19e-02	-3.61e-03
## 88	-1.93e-02	1.39e-02	5.02e-04	3.20e-03	-7.70e-03	-7.89e-04	9.85e-03
## 89	2.69e-03	4.30e-03	-2.29e-04	-2.27e-03	5.43e-03	4.54e-03	-1.37e-03
## 90	-7.44e-02	1.55e-01	1.36e-02	4.86e-02	-1.27e-02	3.14e-03	1.55e-02
## 91	5.74e-03	1.01e-02	-2.42e-02	-2.16e-03	6.66e-03	2.01e-02	-8.82e-03
## 92	3.37e-02	-6.29e-02	-5.70e-04	-1.35e-02	1.50e-02	-3.72e-02	-5.78e-03
## 93	-2.53e-02	1.78e-02	-7.14e-04	-1.10e-02	-2.72e-02	1.53e-02	-8.62e-04
## 94	-6.05e-02	-3.16e-03	-4.42e-02	5.32e-03	1.55e-02	3.80e-02	-1.30e-03
## 95	4.42e-03	6.72e-03	1.69e-04	-5.28e-03	-9.03e-03	5.07e-03	7.16e-03
## 96	-2.46e-03	-4.78e-03	-3.23e-05	-6.00e-04	-2.17e-03	1.86e-03	3.76e-03
## 97	-8.12e-03	1.40e-02	-6.01e-04	-5.81e-03	-1.56e-02	1.06e-02	1.85e-02
## 98	1.43e-03	-8.93e-04	-3.45e-03	-3.96e-03	-2.30e-03	-1.04e-03	-9.34e-04
## 99	7.43e-04	2.64e-03	-6.43e-04	1.22e-03	-1.79e-04	8.94e-04	5.27e-03
## 100	-2.76e-03	8.09e-04	1.24e-02	1.41e-02	3.74e-03	-6.90e-03	3.29e-03
## 101	-4.20e-02	1.89e-02	2.10e-03	2.76e-02	-3.71e-03	-2.68e-02	7.16e-03
## 102	-6.03e-03	-1.13e-02	3.24e-05	-7.04e-03	-4.49e-03	1.62e-02	-2.23e-02
## 103	4.48e-03	-4.81e-02	4.96e-02	1.05e-03	9.91e-03	-1.35e-02	4.25e-02
## 104	-6.98e-03	3.90e-03	5.59e-04	-3.11e-03	1.89e-03	3.05e-03	1.23e-02
## 105	1.46e-03	-8.10e-03	-1.62e-02	-1.86e-02	2.64e-03	-6.23e-03	1.89e-03
## 106	3.92e-05	8.61e-03	-4.17e-02	-5.05e-02	2.26e-02	-1.57e-02	4.20e-03
## 107	3.24e-03	6.24e-03	-2.32e-02	4.38e-03	-1.18e-02	2.25e-02	2.81e-02
## 108	7.15e-02	-4.22e-02	-5.14e-03	1.65e-02	-5.56e-02	-2.06e-02	2.53e-03
## 109	-3.90e-03	6.10e-03	-3.40e-04	-3.74e-03	-9.70e-03	1.15e-03	-9.72e-03
## 110	-1.31e-02	2.26e-02	7.32e-04	-1.03e-02	1.33e-02	-1.92e-02	1.35e-02
## 111	-2.59e-02	-2.60e-02	-4.21e-02	-5.38e-03	-5.28e-02	3.46e-02	5.16e-02
## 112	3.84e-03	8.87e-03	5.17e-02	5.11e-03	-6.79e-03	-1.44e-02	-5.87e-02
## 113	-3.26e-03	-9.56e-03	2.65e-02	3.08e-02	1.69e-02	-2.23e-02	-1.02e-02
## 114	-1.33e-02	1.91e-02	8.61e-04	-5.15e-03	-1.14e-02	-1.67e-02	9.11e-03
## 115	-8.59e-03	9.12e-03	-1.10e-03	-6.17e-03	-6.02e-03	4.11e-03	-1.93e-03
## 116	2.47e-03	3.95e-04	3.73e-05	-1.33e-03	-3.03e-03	2.42e-03	-7.21e-04
## 117	-1.95e-02	3.48e-03	-1.08e-03	-6.61e-03	-2.28e-02	4.68e-03	-1.66e-03
## 118	5.95e-04	-9.98e-05	-6.64e-04	-1.81e-05	-7.40e-04	-7.34e-05	2.49e-04
## 119	2.60e-03	-9.84e-04	-6.49e-04	-3.94e-03	-1.30e-03	4.68e-03	1.03e-02

## 120	1.54e-02	1.92e-03	-1.30e-02	1.76e-03	1.03e-02	-2.25e-02	-3.46e-03
## 121	2.27e-03	1.36e-02	-3.74e-02	-8.01e-03	-2.76e-02	-3.53e-02	2.97e-02
## 122	-1.17e-04	-5.65e-04	-1.12e-02	-1.33e-02	-8.95e-04	6.76e-03	1.52e-03
## 123	-6.79e-02	1.84e-01	-5.23e-04	1.91e-02	-4.78e-02	3.57e-02	-4.14e-02
## 124	2.07e-04	-1.68e-03	-1.06e-04	-6.50e-04	1.51e-04	3.49e-04	2.04e-03
## 125	6.37e-02	-4.97e-02	-5.82e-04	2.07e-02	-6.53e-02	-2.69e-02	-3.20e-02
## 126	-2.44e-02	1.79e-02	-1.25e-03	-9.19e-03	-1.49e-03	8.25e-03	-5.63e-03
## 127	-4.77e-02	-9.60e-03	-1.70e-02	2.42e-02	-1.17e-01	1.31e-01	1.09e-01
## 128	1.91e-02	-5.67e-02	-2.46e-03	1.74e-02	-2.64e-02	6.03e-02	4.45e-02
## 129	8.91e-04	1.08e-02	4.84e-04	-2.37e-03	4.51e-03	6.44e-03	-2.95e-03
## 130	1.12e-03	-5.24e-03	-1.39e-04	-1.32e-03	3.09e-03	-4.50e-03	-1.37e-03
## 131	2.47e-04	1.41e-03	-2.64e-02	4.67e-03	-8.08e-03	-5.57e-02	1.17e-02
## 132	1.02e-02	-1.54e-02	-1.68e-02	3.65e-04	-7.28e-04	-5.08e-03	-3.45e-03
## 133	4.06e-02	-3.14e-03	6.38e-04	2.00e-02	-2.12e-02	5.04e-02	-3.27e-02
## 134	8.44e-03	-3.56e-03	-2.48e-04	-3.14e-03	7.59e-04	1.02e-03	-7.89e-04
## 135	7.23e-03	8.84e-03	-6.43e-04	-4.00e-03	-9.45e-03	-1.40e-02	-2.73e-03
## 136	5.47e-03	-1.35e-03	-9.24e-04	-4.36e-03	1.20e-02	3.92e-03	4.50e-03
## 137	2.65e-02	8.23e-02	8.38e-02	5.93e-03	6.12e-02	-9.63e-04	-9.00e-02
## 138	-3.04e-03	-8.20e-04	2.69e-04	3.35e-03	9.61e-03	-4.05e-03	7.47e-03
## 139	-2.41e-02	2.66e-02	-2.43e-03	-1.21e-02	-1.02e-02	-5.85e-02	3.55e-02
## 140	-7.53e-03	1.87e-02	9.78e-04	-6.16e-03	-1.36e-02	3.13e-03	-3.19e-03
## 141	1.21e-02	-2.21e-02	-8.65e-04	2.39e-02	4.40e-02	7.27e-03	-9.42e-02
## 142	8.38e-03	-2.04e-02	-6.32e-04	-5.62e-03	-1.56e-02	-3.18e-02	-4.14e-03
## 143	-1.13e-03	2.93e-02	4.62e-03	-7.58e-03	2.71e-02	2.09e-02	-2.40e-02
## 144	-2.64e-02	2.60e-03	8.22e-04	-1.02e-02	2.08e-02	-2.76e-02	3.61e-02
## 145	8.78e-04	6.18e-04	-5.52e-03	-1.22e-03	8.05e-04	-8.91e-05	-3.82e-03
## 146	-4.65e-03	8.22e-03	-1.74e-04	-3.89e-03	1.51e-02	4.21e-03	-1.18e-02
## 147	-2.06e-02	2.99e-03	-1.48e-04	-9.25e-03	-3.20e-02	1.28e-02	1.43e-02
## 148	-8.91e-03	6.59e-03	-1.78e-02	-5.20e-04	-3.04e-04	-2.50e-03	-1.52e-02
## 149	1.32e-02	-9.54e-03	-5.38e-04	-4.01e-03	-3.71e-03	8.53e-04	-4.11e-03
## 150	-1.98e-02	3.67e-02	1.38e-03	-1.00e-02	-2.75e-02	1.87e-02	1.63e-02
## 151	-3.79e-04	6.51e-04	-1.15e-02	-1.16e-03	-1.36e-02	-1.75e-02	4.99e-03
## 152	-2.50e-03	-3.55e-04	5.55e-05	1.64e-03	-1.84e-03	-5.29e-03	1.28e-03
## 153	8.89e-03	-3.58e-02	-9.02e-05	-9.01e-03	-2.64e-02	1.33e-02	1.66e-02
## 154	2.09e-03	1.24e-03	2.80e-04	2.45e-03	-6.74e-03	-1.31e-03	-2.28e-03
## 155	1.87e-04	6.38e-04	-1.78e-02	-1.44e-03	-6.75e-03	1.55e-03	8.96e-03
## 156	1.47e-02	-1.49e-02	-3.94e-02	-4.57e-02	2.55e-02	-1.72e-02	1.73e-02
## 157	2.22e-03	-1.81e-02	-9.55e-04	-4.28e-03	-8.45e-03	1.60e-03	6.30e-03
## 158	2.23e-02	-9.65e-02	-1.22e-03	-1.17e-02	-2.53e-02	2.10e-03	2.24e-02
## 159	5.90e-03	2.30e-03	5.09e-04	3.32e-03	-4.57e-03	-5.01e-03	2.56e-03
## 160	4.82e-03	-3.26e-04	-1.53e-02	7.70e-04	1.53e-02	1.09e-02	-4.63e-03
## 161	1.18e-02	1.03e-02	-7.50e-04	-4.27e-03	-7.79e-03	-8.75e-03	-3.47e-03
## 162	-1.35e-02	7.88e-03	1.59e-02	1.85e-02	3.53e-03	1.01e-03	-8.24e-03
## 163	-2.52e-02	9.68e-03	6.62e-04	-5.08e-03	1.44e-02	-2.13e-02	-5.42e-03
## 164	1.69e-02	-2.54e-02	-7.14e-04	-4.82e-03	1.33e-02	-1.60e-02	-2.41e-03
## 165	-3.15e-02	9.08e-03	5.45e-02	6.26e-02	-3.25e-02	1.90e-02	-2.88e-03
## 166	2.54e-03	-3.52e-03	-3.85e-04	-1.65e-03	-6.81e-03	-1.69e-03	-8.19e-04
## 167	-1.50e-03	-1.46e-03	-6.20e-05	-1.37e-03	2.49e-03	-1.81e-03	4.40e-03
## 168	-6.63e-04	1.74e-03	1.19e-05	-7.30e-04	-2.08e-03	8.47e-04	1.29e-03
## 169	5.99e-03	-4.14e-03	-6.14e-04	-4.98e-03	4.08e-04	8.04e-03	1.42e-02

## 170	-3.10e-03	3.56e-03	3.47e-04	-5.66e-03	2.17e-02	4.08e-03	-4.06e-03
## 171	-2.76e-02	3.26e-02	3.53e-03	-9.64e-03	-2.67e-02	-3.06e-02	-5.91e-03
## 172	1.57e-02	-5.62e-02	6.02e-02	3.77e-03	-1.05e-02	-4.20e-02	1.64e-02
## 173	-3.40e-02	6.88e-03	-3.15e-02	1.00e-03	-4.27e-02	1.62e-02	-2.50e-02
## 174	-1.39e-03	8.39e-04	1.94e-03	2.17e-03	1.34e-03	1.76e-04	-1.42e-04
## 175	5.47e-03	-2.44e-02	-2.64e-04	-7.48e-03	-1.96e-02	8.53e-03	2.52e-03
## 176	1.15e-02	-3.04e-02	1.06e-03	-6.72e-03	7.51e-03	1.73e-03	-2.30e-03
## 177	7.92e-03	-2.99e-03	5.41e-04	-3.70e-03	1.43e-02	7.15e-03	-3.09e-03
## 178	6.53e-02	-7.90e-02	1.94e-03	2.97e-02	-6.05e-02	-4.98e-02	-2.94e-02
## 179	9.35e-03	-1.67e-04	-7.93e-04	-4.37e-03	4.70e-03	8.34e-03	4.51e-03
## 180	9.75e-03	-1.68e-02	-4.90e-04	-6.05e-03	-1.88e-02	-1.56e-03	-2.48e-03
## 181	2.62e-02	1.34e-02	1.93e-03	-6.14e-03	3.72e-02	-4.77e-03	-7.88e-03
## 182	9.66e-03	4.95e-03	3.07e-04	-7.91e-03	7.34e-03	-4.47e-02	-2.58e-02
## 183	-3.50e-02	6.92e-02	1.38e-03	1.96e-02	6.11e-02	5.51e-02	-3.10e-02
## 184	8.31e-04	-1.96e-02	-6.57e-04	-2.96e-03	9.05e-03	7.02e-03	-2.79e-03
## 185	-5.52e-03	1.09e-02	5.51e-04	1.97e-03	2.62e-03	1.92e-03	3.51e-03
## 186	1.68e-04	1.89e-04	7.97e-06	-5.81e-04	-4.16e-04	-1.08e-03	-2.03e-03
## 187	-5.22e-03	-3.13e-03	4.63e-04	3.94e-03	5.09e-03	-4.84e-03	1.03e-02
## 188	-8.09e-03	4.14e-03	-1.90e-03	3.61e-03	-4.46e-03	1.15e-02	4.56e-03
## 189	-1.95e-03	-2.55e-04	-4.04e-03	3.73e-05	-1.50e-03	2.04e-03	-3.53e-03
## 190	7.75e-04	-4.79e-04	-7.76e-06	-1.89e-04	8.20e-04	4.99e-04	-7.55e-04
## 191	-1.87e-04	9.66e-04	1.97e-05	3.06e-03	-1.87e-03	-8.15e-03	1.84e-03
## 192	-3.39e-03	1.21e-02	2.37e-04	-4.85e-03	-1.96e-03	7.30e-04	-1.77e-02
## 193	3.31e-02	-4.52e-03	-2.61e-03	1.75e-02	-2.58e-02	7.75e-02	-3.54e-02
## 194	-1.70e-02	2.41e-02	-4.49e-02	-5.09e-02	2.22e-02	-3.01e-03	1.82e-02
## 195	3.11e-05	3.34e-04	-4.30e-03	-4.99e-03	1.87e-03	-1.68e-03	-2.65e-03
## 196	-2.18e-02	-1.23e-02	4.73e-03	-4.60e-03	3.68e-02	-3.81e-02	1.90e-02
## 197	-3.90e-02	1.12e-03	-3.40e-02	1.79e-03	3.86e-02	2.31e-02	1.94e-02
## 198	1.30e-03	2.06e-03	-7.51e-03	-8.61e-03	6.57e-04	4.53e-03	5.96e-04
## 199	-1.29e-03	-1.36e-03	-1.24e-04	5.30e-04	2.03e-03	-1.80e-03	2.66e-03
## 200	-4.99e-04	5.32e-04	1.61e-04	6.01e-04	5.50e-04	2.77e-03	1.53e-03
## 201	-1.92e-02	2.71e-02	-3.56e-02	-3.51e-04	2.00e-02	2.95e-02	-7.82e-03
## 202	-3.82e-03	6.04e-03	-5.95e-03	-6.91e-03	7.66e-04	2.59e-03	2.63e-03
## 203	2.51e-02	-8.69e-03	-3.44e-02	-2.02e-03	-4.13e-03	-5.90e-03	-2.44e-02
## 204	2.87e-02	4.27e-03	1.63e-03	-5.36e-03	-3.58e-03	-1.28e-02	-2.73e-03
## 205	-6.13e-03	-4.78e-02	-5.72e-03	1.09e-02	3.92e-02	1.09e-01	-3.16e-02
## 206	-1.50e-02	-7.35e-02	6.75e-03	4.54e-02	-1.28e-01	1.50e-01	-3.51e-02
## 207	-3.67e-03	3.25e-02	1.42e-03	-8.24e-03	-1.34e-02	1.16e-02	-2.18e-02
## 208	6.36e-03	-1.16e-02	-2.90e-02	-1.11e-03	3.70e-03	-2.58e-02	1.11e-02
## 209	5.75e-04	4.80e-04	-1.12e-03	-1.33e-03	3.34e-04	-7.35e-05	5.79e-04
## 210	-4.70e-03	1.67e-03	4.26e-04	2.04e-03	-2.48e-03	-4.99e-03	5.91e-03
## 211	1.23e-01	-5.77e-02	8.00e-03	4.22e-02	5.15e-02	-4.05e-02	8.08e-02
## 212	-6.85e-04	3.47e-03	8.92e-03	1.02e-02	-4.42e-04	4.57e-03	-1.19e-03
## 213	5.87e-03	6.05e-03	-1.75e-02	4.61e-04	-1.35e-02	-1.94e-02	-1.67e-02
## 214	-2.57e-03	-9.80e-03	-9.00e-04	-2.39e-03	-8.79e-03	7.63e-04	3.28e-03
## 215	2.27e-02	-2.93e-02	-8.83e-03	1.06e-02	3.05e-02	-3.43e-02	5.15e-02
## 216	1.77e-02	3.47e-03	1.77e-03	-4.45e-03	-2.47e-03	4.12e-03	-2.11e-02
## 217	7.40e-02	-2.17e-02	5.59e-02	3.81e-04	-3.95e-02	8.54e-02	1.46e-02
## 218	3.20e-02	-4.01e-02	-3.62e-03	2.55e-02	3.56e-02	-6.52e-02	2.41e-02
## 219	-3.13e-03	-3.13e-05	1.00e-02	1.10e-02	-3.48e-03	1.60e-03	-4.25e-03

## 220	-2.18e-03	6.55e-03	2.13e-05	1.12e-03	3.17e-03	-2.43e-03	4.04e-03
## 221	-1.01e-04	-4.66e-05	-1.17e-06	5.11e-05	1.91e-04	-5.39e-05	1.31e-04
## 222	-9.20e-03	4.07e-03	-5.44e-04	-6.52e-03	2.51e-02	9.96e-03	-4.98e-03
## 223	4.44e-03	-8.41e-03	-2.19e-02	-1.02e-03	6.87e-03	-4.99e-03	1.21e-02
## 224	1.69e-03	-3.80e-04	8.56e-05	9.65e-04	-3.33e-03	-1.50e-03	-2.84e-03
## 225	-6.98e-03	1.42e-03	1.14e-02	1.33e-02	-2.09e-03	5.41e-03	-1.25e-03
## 226	4.02e-03	-1.12e-02	-2.99e-04	-1.50e-03	5.13e-03	2.26e-03	-9.48e-04
## 227	-3.32e-03	1.03e-03	-1.17e-02	-1.17e-03	1.09e-02	5.24e-03	1.32e-02
## 228	-9.95e-04	7.26e-03	-9.08e-03	-8.94e-05	-9.49e-03	7.59e-03	5.22e-03
## 229	5.60e-03	-1.10e-03	-5.52e-03	-1.18e-04	-1.99e-03	4.02e-03	-1.19e-03
## 230	2.44e-02	-9.87e-03	-2.28e-03	1.73e-02	1.11e-02	4.50e-02	8.01e-03
## 231	9.47e-03	-3.60e-02	-1.54e-03	-6.44e-03	-1.67e-02	9.20e-03	-3.35e-03
## 232	-6.70e-03	4.71e-04	9.06e-04	7.96e-03	-1.28e-02	-1.06e-02	3.86e-03
## 233	4.38e-03	-2.00e-02	-4.58e-04	-2.52e-03	-5.55e-05	2.06e-03	3.67e-03
## 234	1.54e-03	-1.82e-02	-1.10e-04	6.07e-03	-2.02e-03	-1.67e-02	2.52e-02
## 235	5.83e-02	-2.29e-02	-7.58e-03	1.61e-02	-1.13e-02	2.96e-02	1.33e-02
## 236	-1.11e-02	-8.61e-04	5.68e-05	1.67e-03	1.49e-03	3.83e-03	5.98e-03
## 237	4.04e-02	-5.39e-02	-5.75e-03	2.31e-02	-5.89e-02	-6.49e-02	-1.14e-01
## 238	4.49e-03	-6.90e-03	6.60e-02	7.17e-02	-1.18e-02	2.39e-02	4.22e-02
## 239	-5.10e-03	8.52e-04	2.89e-04	-2.25e-03	-1.12e-02	3.58e-03	-1.70e-03
## 240	7.13e-02	7.77e-03	-2.63e-03	1.50e-02	-3.01e-02	-4.07e-02	4.73e-02
## 241	-9.21e-04	5.79e-04	8.15e-05	4.53e-04	1.26e-03	-8.31e-04	2.30e-04
## 242	9.88e-04	1.34e-04	2.70e-03	3.12e-03	-3.48e-04	-2.06e-03	-4.61e-04
## 243	-7.56e-03	7.15e-03	-7.92e-04	-6.33e-03	-1.70e-02	-1.34e-02	-2.16e-03
## 244	2.94e-03	-1.90e-03	-4.26e-04	-1.70e-03	-2.63e-03	-3.68e-03	3.56e-03
## 245	-1.33e-02	-2.65e-03	-2.17e-03	3.04e-03	-1.70e-02	-1.27e-02	6.98e-03
## 246	-2.41e-03	5.18e-03	-1.34e-02	-2.36e-04	-1.11e-02	4.89e-03	5.46e-03
## 247	-7.02e-03	-4.46e-03	-5.98e-04	-4.13e-03	-1.13e-04	4.14e-03	-2.97e-03
## 248	-3.09e-03	2.61e-03	-8.82e-05	-1.83e-03	3.99e-03	4.53e-03	-5.90e-03
## 249	-2.60e-02	1.63e-02	1.37e-03	-2.78e-03	-6.32e-03	1.48e-02	-5.98e-03
## 250	9.53e-03	-9.14e-03	-9.22e-03	6.35e-04	-6.20e-03	2.12e-03	1.01e-02
## 251	6.33e-02	-6.76e-02	8.70e-02	-2.06e-03	-5.49e-02	9.23e-03	-9.94e-02
## 252	2.12e-02	7.45e-03	-2.41e-02	-2.10e-03	8.74e-03	1.62e-02	-7.19e-03
## 253	5.40e-03	4.12e-03	-2.20e-04	-5.47e-03	3.26e-03	-8.18e-03	-3.51e-03
## 254	2.43e-02	-2.23e-02	3.49e-03	-6.05e-03	-8.71e-03	-2.67e-02	-2.76e-02
## 255	-3.68e-04	-1.83e-03	1.63e-04	8.84e-04	1.52e-03	2.37e-03	1.86e-03
## 256	-1.16e-02	1.37e-02	8.37e-04	-4.34e-03	3.31e-03	1.28e-02	1.89e-02
## 257	-2.01e-02	-2.62e-02	-2.90e-04	-1.29e-02	3.08e-02	2.07e-02	-2.31e-02
## 258	-5.84e-03	-2.55e-03	1.28e-03	4.93e-03	1.34e-02	-6.69e-03	-1.28e-02
## 259	1.48e-03	-4.60e-03	-7.83e-05	-5.57e-04	-2.06e-05	1.36e-03	-4.80e-04
## 260	2.76e-02	4.88e-03	6.52e-02	1.64e-03	-4.55e-02	1.25e-01	1.50e-02
## 261	6.15e-03	2.41e-03	-2.23e-02	1.96e-03	-1.83e-02	7.19e-03	5.83e-03
## 262	3.57e-03	-1.30e-03	-1.62e-02	-1.85e-02	8.00e-03	-6.53e-03	7.12e-03
## 263	-1.24e-02	8.98e-03	2.49e-04	-8.67e-03	2.79e-02	1.95e-02	-2.29e-02
## 264	-4.78e-02	2.26e-02	2.05e-03	-5.00e-03	2.23e-02	2.13e-02	-4.51e-03
## 265	1.22e-01	-3.67e-02	-5.95e-03	1.40e-02	-3.62e-02	-4.26e-02	-7.48e-02
## 266	-1.24e-02	2.42e-02	-2.98e-04	-6.60e-03	-1.74e-02	1.68e-02	2.65e-02
## 267	1.43e-02	1.01e-02	-2.01e-03	-1.02e-02	-2.72e-02	-2.43e-02	7.50e-03
## 268	-9.76e-04	1.09e-03	2.18e-03	2.49e-03	3.29e-04	5.93e-04	5.52e-04
## 269	1.13e-02	-2.02e-03	2.80e-04	-2.59e-03	-9.62e-03	-7.91e-03	-1.30e-03

## 270	4.50e-04	-4.09e-03	-4.19e-04	3.24e-03	1.10e-02	-2.29e-03	8.38e-03
## 271	7.15e-03	-3.76e-03	2.16e-03	-2.01e-03	5.60e-03	1.04e-02	-1.22e-02
## 272	4.07e-02	9.98e-02	-1.37e-01	-1.60e-01	-1.63e-02	1.27e-01	-8.86e-02
## 273	-8.90e-04	-4.92e-04	4.43e-05	2.95e-04	4.32e-04	-1.00e-04	9.01e-04
## 274	-4.17e-03	1.26e-03	-4.79e-05	1.05e-03	-4.64e-03	-1.13e-03	1.08e-03
## 275	8.25e-03	2.26e-02	-5.17e-04	-7.85e-03	-1.01e-02	1.11e-02	-2.14e-02
## 276	-5.90e-03	6.26e-03	2.48e-02	2.90e-02	4.13e-03	9.77e-03	1.53e-02
## 277	4.40e-03	7.82e-04	-1.20e-03	-4.14e-03	-8.09e-03	-1.21e-02	4.68e-03
## 278	2.89e-02	-1.53e-02	-3.79e-04	-1.74e-02	3.04e-02	1.18e-02	4.94e-02
## 279	-2.72e-03	1.11e-02	-1.74e-02	-1.47e-03	-1.66e-02	1.29e-02	-4.77e-03
## 280	6.36e-04	-7.38e-04	1.72e-04	1.26e-03	-5.91e-04	-2.31e-03	-5.01e-03
## 281	9.94e-04	-9.30e-03	5.48e-04	-1.74e-03	-4.30e-03	5.90e-03	-1.58e-03
## 282	-5.28e-04	-9.21e-05	7.51e-07	1.50e-04	-1.95e-04	-4.28e-04	-1.97e-04
## 283	-8.53e-03	9.59e-03	-1.75e-02	-7.34e-04	1.12e-02	1.28e-02	7.29e-03
## 284	1.61e-02	-2.98e-02	5.31e-05	-4.99e-03	1.79e-02	-1.36e-02	8.49e-03
## 285	-5.11e-02	4.13e-02	-5.52e-02	5.24e-03	2.96e-02	-2.68e-03	7.65e-02
## 286	1.50e-04	-2.52e-04	-7.50e-05	3.12e-04	1.13e-03	-6.86e-04	7.93e-04
## 287	8.55e-03	-2.50e-02	6.76e-02	-8.42e-04	-1.92e-03	8.88e-02	6.14e-02
## 288	-1.97e-03	9.28e-05	2.02e-04	9.54e-04	-7.31e-04	2.88e-03	2.05e-03
## 289	4.43e-02	-4.26e-02	-1.69e-03	2.24e-02	7.65e-02	4.19e-02	-8.57e-02
## 290	7.55e-03	3.55e-03	-3.11e-04	-3.60e-03	-5.80e-03	3.48e-04	-9.38e-03
## 291	-2.34e-02	-1.52e-02	-4.15e-02	6.95e-03	9.80e-03	-6.90e-03	-1.70e-03
## 292	-1.50e-02	-3.24e-03	9.27e-04	-9.94e-03	6.67e-03	1.31e-02	-3.21e-03
## 293	-9.56e-03	-2.51e-03	-2.26e-02	-8.32e-04	1.54e-02	7.18e-03	-1.98e-02
## 294	3.64e-02	-5.26e-02	-3.38e-03	2.38e-02	2.43e-02	-2.93e-02	4.47e-02
## 295	-1.42e-02	-2.62e-02	-4.00e-02	3.11e-03	-5.61e-03	1.88e-03	2.40e-02
## 296	1.10e-02	3.53e-03	-1.23e-02	2.67e-04	3.32e-03	-1.90e-02	-4.00e-03
## 297	7.12e-02	-8.88e-02	-4.73e-03	2.30e-02	-7.68e-02	-4.03e-02	1.54e-02
## 298	1.67e-03	8.66e-04	-2.40e-04	-1.36e-03	-2.78e-03	-1.75e-03	-9.38e-04
## 299	1.42e-02	-4.45e-03	-1.22e-02	7.35e-04	6.65e-03	-1.02e-02	-4.44e-03
## 300	4.35e-03	-8.08e-03	-1.21e-03	-3.11e-03	-5.87e-03	3.89e-03	-5.26e-03
## 301	-6.44e-04	-1.59e-04	-1.34e-05	2.38e-04	-9.35e-04	-6.78e-04	1.09e-03
## 302	-2.42e-02	3.53e-02	-3.35e-04	-1.17e-02	-4.14e-03	-4.51e-03	-2.84e-02
## 303	8.48e-03	1.15e-02	1.39e-04	-5.97e-03	-2.59e-02	-1.18e-02	8.17e-03
## 304	-2.62e-04	1.32e-03	1.76e-04	-4.28e-04	2.51e-03	5.18e-04	7.45e-04
## 305	-1.10e-02	-7.46e-03	6.21e-04	8.23e-03	9.94e-03	-1.71e-02	4.06e-03
## 306	8.81e-04	2.26e-05	-2.15e-03	-2.53e-03	5.97e-04	1.50e-03	-5.70e-04
## 307	-7.78e-04	2.14e-03	-9.33e-05	-1.09e-03	-4.77e-04	9.20e-04	-3.23e-03
## 308	-8.97e-03	1.15e-02	-4.73e-04	-4.99e-03	-1.25e-04	-3.02e-02	2.25e-02
## 309	-1.34e-02	-3.86e-02	3.10e-02	3.56e-02	1.29e-02	1.27e-02	-1.08e-02
## 310	1.99e-03	6.05e-03	2.92e-03	-3.73e-03	6.80e-03	7.66e-03	-4.53e-03
## 311	-5.40e-02	1.96e-02	1.46e-03	-6.92e-03	4.12e-02	2.14e-02	3.83e-02
## 312	1.50e-02	1.01e-03	-1.75e-02	-2.91e-03	-1.63e-02	7.63e-03	1.91e-02
## 313	-2.51e-02	2.54e-03	-1.58e-04	-1.22e-02	4.11e-02	2.21e-02	-3.62e-03
## 314	-1.68e-03	4.53e-03	-1.18e-02	6.65e-04	4.98e-03	3.71e-03	-1.10e-02
## 315	3.47e-03	1.26e-02	2.69e-03	-5.49e-03	3.62e-02	-2.09e-03	-6.22e-03
## 316	5.98e-03	-1.66e-02	-1.54e-02	-9.48e-04	1.63e-02	-2.02e-03	-3.21e-03
## 317	4.90e-03	-1.17e-03	2.01e-03	-4.99e-03	-1.50e-02	1.77e-02	-3.32e-03
## 318	-3.29e-02	1.54e-01	8.23e-03	3.76e-02	-2.34e-03	-1.57e-02	2.26e-02
## 319	-3.07e-02	2.05e-02	4.93e-03	-1.05e-02	-3.95e-02	1.90e-02	-4.97e-03

## 320	-2.78e-02	2.28e-02	2.43e-03	-1.12e-02	1.37e-02	7.44e-03	-1.09e-04
## 321	5.13e-03	1.32e-02	2.14e-03	-7.95e-03	-3.26e-02	1.96e-02	-2.09e-02
## 322	-1.11e-03	-1.24e-02	5.32e-04	5.18e-03	-5.72e-03	-1.60e-03	1.38e-02
## 323	2.36e-04	1.51e-03	2.21e-04	-1.18e-03	-1.37e-03	3.05e-03	4.71e-03
## 324	7.04e-02	-2.83e-02	-2.07e-03	1.62e-02	3.66e-02	-3.91e-02	-6.91e-02
## 325	-4.52e-03	-5.15e-03	2.71e-04	2.83e-03	6.54e-03	1.42e-02	7.57e-03
## 326	7.51e-03	5.61e-03	-1.58e-02	-2.50e-03	-1.10e-04	4.50e-03	-3.20e-03
## 327	9.16e-04	7.20e-03	-1.91e-02	-1.24e-03	2.50e-03	3.09e-03	-3.62e-03
## 328	-6.18e-03	-1.75e-02	-6.12e-03	1.86e-02	4.53e-02	-5.47e-02	6.58e-02
## 329	-3.68e-02	3.23e-03	-3.60e-02	-1.66e-03	1.83e-02	-1.76e-03	1.75e-02
## 330	-4.02e-03	4.43e-04	3.00e-04	3.26e-03	1.69e-02	-4.20e-03	1.19e-02
## 331	6.31e-03	-1.24e-02	-1.35e-02	-1.36e-03	5.33e-03	-1.46e-03	-1.70e-03
## 332	-2.69e-02	1.72e-02	4.56e-02	5.34e-02	2.70e-02	1.97e-02	-2.91e-03
## 333	-4.15e-03	-1.91e-02	-1.87e-02	6.56e-04	-4.70e-03	-2.00e-02	-1.62e-02
## 334	-3.99e-03	-7.88e-03	-6.14e-04	-3.44e-03	-4.45e-03	2.47e-03	-2.51e-03
## 335	-9.28e-03	6.69e-03	2.50e-04	3.41e-03	-4.38e-03	-1.77e-03	7.29e-03
## 336	-1.25e-03	-2.94e-02	-3.09e-03	-1.36e-02	-1.98e-02	2.81e-02	1.93e-02
## 337	1.08e-01	-2.28e-02	-2.71e-03	1.30e-02	-4.90e-02	-1.04e-02	-3.10e-02
## 338	-2.32e-02	2.20e-03	-1.15e-03	-1.26e-02	-3.50e-04	-4.42e-03	1.59e-02
## 339	-1.65e-03	1.05e-03	-1.74e-04	-8.45e-04	1.01e-03	5.95e-04	-1.53e-03
## 340	-4.58e-04	3.10e-03	-1.09e-04	-1.35e-03	-2.51e-03	6.14e-04	2.03e-03
## 341	-4.71e-03	2.62e-03	1.03e-03	4.00e-03	5.65e-03	-3.00e-03	8.26e-03
## 342	6.74e-03	-3.60e-03	-1.09e-03	-5.43e-03	1.25e-02	-7.14e-03	-1.88e-03
## 343	-2.83e-03	1.04e-02	8.53e-04	-9.48e-03	-2.08e-02	7.59e-03	-2.34e-04
## 344	-2.14e-02	8.26e-03	-1.40e-03	-1.00e-02	3.37e-02	-4.83e-03	-2.01e-02
## 345	4.71e-05	1.83e-04	6.87e-06	-1.66e-04	-5.55e-04	1.91e-04	-1.01e-04
## 346	-2.25e-03	1.20e-02	-9.08e-04	-5.38e-03	-1.06e-02	-2.07e-02	-3.64e-03
## 347	1.45e-02	-3.34e-02	5.71e-04	-1.19e-02	2.12e-02	1.25e-02	-3.24e-02
## 348	3.95e-02	-4.00e-02	-2.70e-02	-2.43e-03	-2.57e-02	1.47e-02	1.13e-02
## 349	-3.23e-03	-2.37e-03	-2.26e-04	-6.25e-03	-1.45e-03	-2.98e-02	2.39e-02
## 350	4.08e-03	-1.65e-03	-7.96e-03	-9.40e-03	-9.70e-04	-3.29e-03	3.84e-03
## 351	6.14e-04	-3.13e-02	4.77e-04	-8.93e-03	1.36e-02	1.56e-02	5.59e-05
## 352	-3.10e-04	1.49e-03	2.84e-04	-1.58e-03	-3.62e-03	3.97e-03	-1.77e-03
## 353	3.25e-03	-1.21e-02	-1.22e-03	-5.43e-03	1.43e-02	-3.70e-02	1.94e-02
## 354	2.82e-03	3.94e-03	8.81e-04	-6.04e-03	-1.77e-02	5.96e-03	4.78e-04
## 355	4.93e-03	7.21e-03	4.41e-02	5.05e-02	7.57e-03	-3.06e-02	-1.80e-02
## 356	2.19e-04	3.01e-03	-3.74e-05	-1.15e-03	-6.85e-04	2.62e-03	-5.97e-04
## 357	1.60e-02	-3.32e-03	-9.04e-04	-7.49e-03	-2.09e-02	1.42e-02	2.25e-02
## 358	4.10e-02	-3.23e-02	3.08e-02	-3.05e-03	1.95e-03	-2.70e-02	-4.21e-02
## 359	-6.13e-04	-2.25e-04	2.23e-03	2.59e-03	-9.71e-05	8.06e-04	-1.01e-03
## 360	-4.32e-03	1.37e-03	-5.34e-03	2.25e-05	2.38e-03	3.05e-03	6.01e-03
## 361	-7.95e-03	1.61e-02	-2.22e-04	1.90e-03	-4.55e-03	-6.71e-03	8.81e-03
## 362	4.64e-03	-2.97e-03	8.13e-04	-1.38e-03	-4.12e-03	-5.68e-04	-5.29e-03
## 363	-3.18e-02	2.75e-02	4.88e-02	5.47e-02	-4.06e-03	2.49e-03	2.89e-02
## 364	2.05e-02	3.36e-02	-5.29e-03	1.72e-02	-4.76e-02	-1.72e-02	4.64e-02
## 365	2.21e-03	7.16e-03	5.16e-04	-1.46e-03	-7.05e-04	-2.51e-04	-3.03e-03
## 366	-2.13e-04	8.21e-03	-1.23e-02	-1.44e-02	4.38e-03	-1.14e-03	5.72e-04
## 367	1.66e-02	7.91e-02	7.60e-02	1.78e-03	-7.80e-02	-2.62e-02	-8.26e-02
## 368	2.21e-03	-1.38e-03	-9.95e-05	-7.79e-04	-1.08e-03	-3.28e-04	-2.33e-03
## 369	2.85e-03	4.19e-02	-1.47e-03	1.89e-02	-2.81e-02	8.07e-02	5.99e-03

## 370	-4.23e-02	-9.52e-03	1.86e-03	-1.89e-02	3.32e-02	-2.28e-03	-2.42e-03
## 371	5.84e-03	-7.26e-02	-6.19e-03	1.79e-02	-9.24e-02	2.34e-02	2.40e-02
## 372	7.29e-03	6.80e-03	-3.46e-04	-6.70e-03	-1.63e-02	-2.38e-02	-1.55e-02
## 373	4.19e-03	5.38e-03	-1.21e-03	-9.02e-03	1.17e-03	1.64e-04	-7.81e-03
## 374	-5.88e-05	4.27e-04	-4.16e-05	-2.92e-04	-1.04e-03	5.31e-04	-7.68e-04
## 375	3.60e-03	5.40e-03	9.47e-05	-3.97e-03	1.02e-02	6.14e-04	4.43e-03
## 376	1.63e-04	2.49e-03	-2.63e-04	-5.25e-03	-1.44e-02	2.46e-03	8.21e-03
## 377	-6.30e-03	1.04e-02	-1.78e-04	3.20e-03	6.78e-03	4.94e-03	3.14e-03
## 378	1.14e-03	-4.76e-04	1.08e-04	-7.28e-04	3.04e-03	2.06e-03	-3.03e-03
## 379	4.78e-02	-1.25e-02	-1.53e-01	-1.71e-01	7.76e-02	6.09e-02	-9.47e-02
## 380	9.15e-03	-1.05e-03	1.82e-03	-1.10e-03	-1.05e-02	7.58e-03	-1.73e-03
## 381	1.50e-02	1.68e-02	-1.34e-05	-7.17e-03	-1.93e-02	-1.05e-03	-1.33e-02
## 382	7.49e-04	6.05e-05	1.31e-05	-4.36e-03	1.82e-02	1.08e-02	-4.42e-03
## 383	7.65e-03	-5.33e-02	7.46e-02	-2.74e-03	-2.70e-02	-4.26e-02	2.28e-02
## 384	-3.92e-02	2.71e-02	1.74e-03	-8.00e-03	2.94e-02	-5.71e-03	3.50e-02
## 385	-1.09e-02	4.38e-04	-5.33e-04	-7.85e-03	2.41e-02	1.60e-02	1.23e-02
## 386	-2.57e-02	-4.73e-03	5.54e-02	6.85e-04	-3.40e-02	-2.89e-02	8.32e-03
## 387	-7.62e-04	2.93e-03	-2.71e-04	-3.11e-03	-4.81e-03	-3.40e-03	-7.02e-03
## 388	-6.95e-05	1.94e-03	2.45e-04	1.18e-03	-3.18e-04	-1.72e-03	2.35e-03
## 389	2.13e-03	-1.13e-02	-5.54e-04	-4.90e-03	1.64e-02	1.09e-02	6.41e-03
## 390	-4.31e-02	4.16e-02	7.39e-03	-7.88e-03	-4.24e-02	-1.11e-03	-2.19e-03
## 391	-3.72e-03	5.49e-04	-3.58e-04	-2.30e-03	-2.70e-03	-1.83e-03	6.88e-03
## 392	1.19e-03	1.19e-02	4.83e-04	-3.28e-03	6.85e-03	1.02e-02	4.76e-03
## 393	-4.15e-03	-4.05e-03	1.61e-04	-9.42e-04	3.05e-04	2.86e-03	8.41e-03
## 394	1.25e-03	1.02e-04	-8.81e-03	-1.05e-02	4.72e-03	-2.40e-03	1.01e-03
## 395	-2.43e-02	8.54e-03	4.83e-04	-3.39e-03	7.92e-03	3.93e-03	6.24e-03
## 396	1.25e-02	-8.93e-03	-1.17e-02	-3.47e-04	1.09e-02	-1.19e-02	-1.11e-02
## 397	1.95e-02	-1.69e-02	-7.19e-04	-7.50e-03	-2.27e-02	2.72e-03	-5.89e-04
## 398	-1.25e-02	3.10e-02	3.09e-03	-1.40e-02	-1.09e-02	2.44e-02	2.65e-02
## 399	-8.00e-03	1.08e-02	5.40e-02	6.01e-02	-1.16e-02	-3.42e-02	1.76e-02
## 400	-1.08e-02	2.07e-03	-4.37e-05	-5.81e-03	1.84e-02	1.66e-02	-2.06e-02
## 401	4.10e-03	4.62e-03	-1.78e-02	1.29e-05	-1.39e-02	1.26e-02	1.03e-02
## 402	7.78e-05	-2.52e-04	3.67e-04	-1.12e-04	-9.37e-06	-1.77e-04	1.10e-04
## 403	-3.18e-03	3.54e-03	3.41e-05	-8.06e-03	-1.51e-02	-8.15e-03	1.18e-02
## 404	-2.19e-03	3.89e-03	-6.70e-08	1.49e-03	-1.65e-03	-4.71e-03	-2.95e-03
## 405	2.34e-04	9.51e-03	-6.97e-04	-5.16e-03	-1.29e-02	-8.82e-03	-2.96e-03
## 406	8.23e-02	-7.96e-02	-6.50e-03	1.23e-02	-2.02e-02	-4.46e-02	-8.90e-02
## 407	-4.33e-03	3.39e-03	1.74e-03	-2.07e-03	1.32e-02	8.64e-03	-9.58e-03
## 408	3.46e-03	-1.13e-02	-1.41e-04	-3.55e-03	1.45e-02	-8.81e-05	1.21e-02
## 409	1.23e-02	-7.80e-03	-9.22e-04	2.20e-03	1.74e-02	-6.19e-03	1.57e-02
## 410	-1.35e-03	8.06e-03	-2.24e-02	-2.68e-04	1.35e-02	-3.94e-02	2.46e-02
## 411	-1.74e-02	1.61e-02	-1.30e-03	-9.50e-03	1.95e-02	1.45e-02	-4.78e-03
## 412	-1.85e-02	-1.41e-02	7.95e-04	-3.31e-03	7.73e-03	2.58e-03	1.70e-02
## 413	-5.69e-03	2.68e-03	7.20e-04	3.90e-03	1.11e-02	7.49e-03	2.34e-03
## 414	1.03e-02	-7.73e-03	-8.20e-03	-7.68e-04	-8.01e-03	-1.28e-02	-6.56e-03
## 415	3.65e-02	-4.81e-02	-6.43e-03	1.33e-02	7.34e-02	-4.13e-02	-7.33e-02
## 416	8.50e-02	3.28e-02	9.09e-02	1.52e-02	-7.23e-02	-1.75e-02	6.69e-02
## 417	4.12e-02	-2.52e-02	-2.87e-02	-1.19e-03	-3.40e-02	1.98e-02	-2.18e-02
## 418	-2.42e-02	-4.68e-03	1.79e-03	8.56e-03	3.11e-02	-2.15e-02	6.47e-03
## 419	2.95e-03	1.14e-02	-2.77e-03	-9.96e-03	-1.72e-02	-2.44e-02	2.04e-02

## 420	2.95e-03	-1.56e-03	-3.80e-03	-4.43e-03	1.82e-03	-1.31e-03	5.16e-04
## 421	1.18e-03	3.74e-03	-3.93e-04	-2.00e-03	-2.45e-03	3.37e-03	1.98e-03
## 422	4.94e-03	-4.19e-02	2.21e-03	2.69e-02	-5.63e-02	1.21e-01	2.02e-02
## 423	7.76e-02	-7.01e-02	-3.05e-03	2.45e-02	-2.89e-02	-3.80e-02	-8.64e-02
## 424	-4.68e-03	3.57e-03	1.09e-02	1.27e-02	-6.67e-03	-6.35e-03	-8.61e-04
## 425	-1.13e-02	1.59e-03	-1.86e-04	-4.04e-03	1.61e-02	-2.36e-02	1.41e-02
## 426	1.03e-02	-5.63e-03	-9.84e-04	-7.55e-03	-1.43e-02	-3.76e-02	8.31e-03
## 427	-1.10e-02	5.78e-03	1.50e-02	1.68e-02	-4.43e-03	5.13e-03	-1.35e-03
## 428	2.76e-02	-3.04e-02	-1.86e-02	-2.62e-03	-2.30e-02	-2.70e-02	-2.57e-03
## 429	-3.07e-04	2.23e-04	-6.56e-05	9.58e-04	8.03e-04	-1.83e-03	-3.27e-03
## 430	-8.48e-03	3.50e-03	4.33e-04	-3.95e-04	-8.73e-04	3.16e-03	5.89e-03
## 431	-3.01e-02	-1.81e-02	-3.56e-03	-1.67e-02	3.97e-02	-5.16e-02	-3.32e-02
## 432	-1.65e-03	-1.22e-02	1.09e-03	-3.34e-03	5.46e-03	8.89e-04	-1.44e-03
## 433	-1.15e-03	1.91e-03	-1.51e-04	-1.28e-03	-2.86e-03	1.70e-03	-2.60e-03
## 434	2.50e-02	-7.95e-03	-2.13e-04	-6.18e-03	-1.01e-02	1.04e-03	-3.24e-03
## 435	-1.30e-02	-6.58e-03	1.94e-03	6.03e-03	1.05e-02	2.27e-04	2.16e-03
## 436	-4.18e-03	-5.99e-02	-6.46e-03	1.78e-02	7.27e-02	5.45e-02	-5.06e-02
## 437	1.12e-01	-6.05e-03	8.47e-03	4.07e-02	-3.01e-02	1.73e-02	-1.02e-01
## 438	-8.76e-03	1.24e-03	4.60e-04	-6.60e-03	1.45e-02	1.91e-03	-2.02e-02
## 439	1.23e-02	3.41e-03	8.24e-04	-4.80e-03	-1.49e-02	-9.87e-03	-1.37e-02
## 440	4.59e-02	-7.40e-02	7.58e-02	-6.83e-03	-4.11e-02	7.65e-02	-8.43e-02
## 441	1.66e-02	-2.02e-02	6.24e-02	2.16e-03	2.08e-02	7.57e-02	-3.64e-02
## 442	1.64e-02	-1.19e-02	-1.84e-02	6.13e-04	-2.14e-02	7.91e-03	7.54e-03
## 443	-2.07e-02	-3.09e-03	3.21e-02	3.56e-02	2.56e-03	-1.41e-03	8.85e-03
## 444	1.46e-02	-6.58e-02	7.44e-02	6.03e-04	7.93e-02	-2.90e-02	2.15e-02
## 445	-3.36e-04	2.27e-03	-6.00e-05	8.51e-04	-2.92e-03	-1.77e-03	-1.37e-03
## 446	5.72e-03	4.87e-03	3.29e-04	-2.45e-03	-5.42e-03	-8.89e-03	1.18e-02
## 447	2.51e-03	1.41e-03	-1.30e-02	-1.47e-02	-5.88e-03	7.76e-04	6.44e-03
## 448	-1.07e-05	2.99e-05	3.63e-06	-1.32e-05	1.98e-05	4.33e-05	2.48e-05
## 449	1.40e-03	1.49e-03	1.67e-04	-1.85e-03	3.85e-03	1.66e-03	2.17e-03
## 450	-3.16e-03	-7.35e-03	-1.08e-02	8.02e-04	6.78e-03	-1.12e-04	-2.90e-03
## 451	9.02e-03	1.22e-02	3.31e-03	-6.26e-03	-2.51e-03	1.70e-02	1.66e-02
## 452	2.06e-02	-2.04e-02	-1.61e-03	-1.10e-02	2.68e-02	-3.30e-02	-2.29e-02
## 453	-1.46e-02	1.21e-02	6.89e-04	3.83e-03	-4.53e-03	-7.35e-03	8.89e-03
## 454	7.29e-02	-5.52e-02	5.36e-02	-2.72e-03	-4.88e-02	3.97e-02	-3.34e-02
## 455	-5.22e-05	-1.84e-04	1.14e-05	1.16e-04	-2.77e-04	2.49e-04	2.09e-04
## 456	-8.71e-03	-2.32e-03	7.25e-04	2.98e-03	1.23e-03	-5.94e-03	-8.53e-03
## 457	-1.15e-03	2.24e-03	-6.51e-04	-1.89e-03	1.43e-03	6.33e-04	-9.81e-04
## 458	2.57e-02	-4.49e-02	3.79e-02	-2.88e-03	4.32e-02	-1.66e-02	-2.43e-02
## 459	-3.03e-02	1.33e-02	3.39e-02	4.03e-02	-9.94e-03	-3.41e-02	-4.01e-03
## 460	-3.18e-02	-2.54e-02	6.23e-02	7.14e-02	1.57e-02	2.33e-02	4.20e-02
## 461	-1.81e-02	2.84e-02	-8.88e-04	-1.09e-02	1.73e-03	-4.62e-02	3.03e-02
## 462	9.24e-04	-9.50e-03	1.22e-04	-6.92e-03	2.17e-02	1.65e-02	2.40e-02
## 463	3.24e-03	4.01e-04	1.99e-04	-1.54e-03	4.55e-03	-5.21e-03	-4.24e-03
## 464	4.25e-02	-1.09e-02	1.55e-03	1.59e-02	-2.12e-02	5.06e-02	7.72e-03
## 465	3.89e-03	2.04e-04	9.25e-06	-1.80e-03	-2.79e-04	3.87e-03	2.74e-03
## 466	-1.52e-02	1.89e-02	-1.74e-02	4.19e-03	-4.75e-03	-1.48e-02	2.02e-02
## 467	6.22e-06	1.12e-05	-9.40e-07	-9.25e-06	-3.07e-05	2.59e-05	1.97e-05
## 468	-6.97e-03	-2.20e-03	1.45e-02	1.64e-02	9.43e-03	8.82e-04	9.66e-03
## 469	8.06e-03	-1.43e-02	1.14e-05	-4.42e-03	-3.16e-03	4.31e-03	-9.20e-03



## 470	3.46e-03	-3.02e-02	-2.29e-01	-2.68e-01	1.39e-01	1.35e-02	1.03e-01
## 471	-6.37e-03	1.80e-02	-2.29e-02	-1.68e-04	1.21e-02	-3.25e-02	-2.12e-02
## 472	8.73e-04	1.97e-03	7.74e-05	-4.07e-04	-2.69e-03	-4.32e-04	-7.76e-04
## 473	-1.32e-02	-3.99e-03	3.47e-04	-3.77e-03	1.09e-02	1.19e-02	7.50e-03
## 474	3.19e-03	-2.74e-04	-2.06e-04	-1.38e-03	-3.33e-03	-3.20e-03	-3.03e-03
## 475	4.85e-03	3.04e-02	4.71e-03	-4.61e-03	9.49e-03	-3.49e-02	1.42e-02
## 476	1.00e-02	1.59e-02	-9.00e-04	-8.07e-03	2.85e-03	-3.81e-02	2.43e-02
## 477	1.05e-02	1.54e-02	-2.07e-03	-8.64e-03	-5.55e-04	-1.55e-02	-2.36e-02
## 478	6.60e-03	1.42e-03	-1.69e-02	1.66e-03	-2.02e-02	1.09e-02	1.95e-02
## 479	-1.22e-02	1.12e-02	8.36e-04	-3.25e-03	3.96e-03	-4.96e-03	5.94e-03
## 480	2.70e-02	-5.73e-02	5.21e-02	-5.82e-03	5.15e-02	-1.43e-02	-7.16e-02
## 481	1.15e-03	8.65e-03	7.13e-02	1.62e-03	-3.57e-02	1.65e-02	-2.82e-02
## 482	-1.21e-02	-4.28e-03	2.74e-03	-7.11e-03	3.47e-02	2.46e-02	1.76e-02
## 483	8.35e-02	-5.20e-02	7.53e-03	3.59e-02	8.26e-02	2.21e-02	-4.09e-02
## 484	-1.46e-02	-3.63e-04	-8.93e-04	-1.47e-02	1.20e-02	-4.90e-02	4.03e-02
## 485	-9.52e-03	-7.72e-03	1.88e-04	3.60e-03	-5.34e-03	-3.08e-03	-9.56e-03
## 486	-3.31e-02	1.45e-02	-1.20e-03	-9.53e-03	8.25e-04	6.40e-03	2.71e-02
## 487	-2.20e-02	2.31e-02	4.83e-03	-7.31e-04	1.66e-02	1.55e-02	-2.36e-02
## 488	-9.31e-03	2.56e-02	-9.87e-05	-8.99e-03	-1.27e-02	1.78e-02	-2.50e-02
## 489	-3.15e-04	2.53e-04	-1.10e-05	1.29e-04	-1.28e-04	-3.01e-04	9.58e-05
## 490	-2.17e-02	1.26e-02	-4.92e-06	-7.29e-03	5.11e-03	5.55e-03	1.46e-02
## 491	-3.11e-02	-8.97e-03	1.16e-03	-7.64e-03	2.41e-02	2.18e-02	-6.19e-03
## 492	1.88e-02	-1.77e-02	-2.16e-02	-1.69e-03	-6.48e-03	7.14e-04	-1.52e-02
## 493	-9.76e-03	-1.03e-03	-2.02e-04	-1.17e-03	-4.59e-03	4.37e-03	-5.68e-03
## 494	-6.57e-03	-2.20e-02	-2.04e-04	-7.41e-03	-1.66e-02	1.33e-02	2.81e-02
## 495	1.03e-03	-1.90e-04	2.98e-04	-1.05e-02	2.95e-02	-1.27e-02	-2.97e-03
## 496	3.97e-02	-5.22e-02	3.46e-03	3.07e-02	1.07e-01	-5.55e-02	1.66e-02
## 497	-2.01e-02	2.63e-02	4.55e-04	-9.70e-03	-3.29e-02	-4.01e-02	-5.27e-03
## 498	-7.22e-04	-1.51e-03	-1.91e-04	1.93e-04	1.36e-03	-7.97e-04	1.22e-03
## 499	-5.12e-03	2.26e-02	3.45e-04	-6.48e-03	8.91e-03	7.30e-03	2.30e-02
## 500	-6.95e-04	-5.72e-04	-4.63e-04	-2.42e-03	-4.65e-03	-3.03e-04	-8.31e-04
## 501	-7.40e-03	2.97e-03	2.64e-03	-6.55e-03	1.13e-02	3.22e-03	3.55e-02
## 502	8.82e-03	-6.70e-04	-2.05e-02	-2.14e-03	2.33e-02	1.09e-02	-5.38e-03
## 503	4.97e-03	-1.04e-02	-1.45e-04	-2.42e-03	5.76e-03	4.11e-03	-5.76e-03
## 504	-3.19e-03	6.59e-04	1.18e-04	-1.47e-03	-4.77e-03	3.33e-03	2.51e-03
## 505	-3.29e-02	9.46e-02	7.40e-02	-7.71e-04	-6.06e-02	1.01e-01	-7.56e-02
## 506	1.95e-03	1.56e-02	2.60e-03	-5.84e-03	-7.34e-03	7.90e-03	-3.34e-03
## 507	-1.19e-04	2.82e-04	4.89e-05	4.54e-04	-6.67e-04	-6.90e-04	1.79e-04
## 508	-7.05e-03	6.98e-03	1.78e-04	-4.34e-03	-1.05e-02	8.79e-03	6.43e-03
## 509	-1.80e-02	1.11e-02	-8.94e-04	-1.25e-02	-1.63e-02	7.05e-03	1.50e-02
## 510	-5.89e-04	1.41e-03	-2.49e-03	-3.00e-04	-1.51e-03	6.93e-04	-5.48e-04
## 511	8.01e-03	-8.76e-03	-2.29e-04	-1.83e-03	4.59e-03	-5.71e-03	-1.12e-03
## 512	-4.39e-02	1.15e-02	7.14e-04	-1.07e-02	-7.03e-03	-4.80e-03	2.43e-02
## 513	-3.12e-02	1.44e-02	5.61e-04	-1.20e-02	-2.36e-02	1.61e-02	4.01e-02
## 514	3.69e-02	-5.88e-02	-5.84e-03	1.85e-02	7.08e-02	8.59e-03	4.12e-02
## 515	3.87e-02	-3.32e-03	3.62e-02	-3.59e-03	2.81e-02	-2.26e-02	-5.52e-02
## 516	-7.24e-03	-5.41e-03	1.71e-02	1.99e-02	1.20e-03	5.84e-03	-1.63e-03
## 517	-4.46e-03	1.81e-02	1.63e-03	-3.05e-03	-2.65e-03	7.65e-03	1.95e-02
## 518	1.13e-03	1.11e-03	-2.17e-05	-4.03e-04	9.34e-05	2.60e-04	-1.22e-03
## 519	2.94e-03	-3.51e-03	-5.66e-04	-2.86e-03	6.19e-03	1.43e-03	-5.34e-03

## 520	-6.86e-03	1.01e-02	-1.98e-02	-3.29e-03	2.82e-05	1.32e-02	7.26e-03
## 521	1.26e-04	-1.31e-03	8.30e-05	-2.06e-04	3.85e-05	7.24e-04	6.58e-04
## 522	1.67e-02	7.55e-03	-1.10e-02	-7.34e-04	-1.02e-02	7.41e-03	-8.71e-03
## 523	6.77e-03	-3.38e-03	1.36e-05	-1.49e-03	-4.04e-03	-1.24e-03	-5.04e-03
## 524	1.41e-02	-1.02e-02	1.97e-03	-2.06e-03	-9.48e-03	-2.25e-02	-1.04e-02
## 525	5.52e-03	-2.67e-03	-1.75e-03	-7.51e-03	-2.18e-02	-9.07e-04	-1.11e-02
## 526	4.73e-02	-6.05e-02	-2.77e-03	2.49e-02	-8.40e-03	-4.45e-02	-9.07e-02
## 527	-4.94e-03	6.06e-03	1.00e-03	-7.00e-03	8.93e-03	1.23e-02	-1.62e-02
## 528	-4.83e-04	4.05e-04	5.06e-07	-6.48e-04	-4.76e-04	-2.35e-04	-1.72e-03
## 529	1.12e-03	4.66e-02	6.59e-02	-1.23e-02	-3.83e-02	-9.41e-03	-4.23e-02
## 530	-2.70e-05	-3.42e-05	3.10e-06	-1.87e-05	-3.02e-06	4.39e-05	3.53e-05
## 531	-1.03e-03	1.59e-03	3.50e-05	-4.82e-04	6.80e-04	1.62e-03	-3.40e-04
## 532	1.05e-04	1.49e-03	-2.65e-04	-2.60e-03	-3.06e-03	3.00e-03	-8.56e-04
## 533	-3.56e-03	-3.24e-03	4.24e-04	-2.30e-03	1.23e-03	-4.61e-03	-7.38e-03
## 534	1.51e-03	3.20e-03	-2.18e-02	1.31e-03	9.49e-03	1.04e-02	-1.77e-02
## 535	-1.61e-02	-1.05e-02	-1.83e-03	2.16e-03	2.15e-03	-3.90e-03	5.36e-03
## 536	-2.39e-03	4.69e-03	-1.36e-03	-5.93e-03	7.16e-03	-1.12e-03	5.03e-03
## 537	2.25e-02	-7.72e-02	-1.80e-03	-1.00e-02	-2.47e-02	-1.88e-02	3.46e-02
## 538	-4.45e-03	9.28e-03	-1.38e-02	-1.72e-03	1.21e-02	9.49e-05	-1.11e-02
## 539	1.56e-03	-1.78e-03	4.17e-04	3.74e-03	-1.06e-02	-8.88e-03	1.27e-02
## 540	3.22e-03	-1.23e-02	-3.05e-04	-1.75e-03	5.25e-03	-6.79e-05	-5.18e-03
## 541	7.86e-02	-3.26e-02	-3.57e-03	1.40e-02	-5.82e-03	-3.59e-02	-6.21e-02
## 542	1.73e-03	1.33e-04	-3.32e-03	-4.03e-03	-1.35e-03	-2.41e-04	-1.97e-03
## 543	2.31e-02	-1.93e-03	3.40e-03	-8.11e-03	3.63e-02	2.69e-02	-2.33e-03
## 544	-6.33e-02	-4.47e-02	6.87e-02	7.85e-02	2.16e-02	-5.52e-02	4.40e-02
## 545	-2.94e-03	7.41e-03	-2.45e-02	-1.08e-03	2.40e-02	1.53e-02	-2.23e-02
## 546	7.07e-03	4.98e-03	-9.80e-04	-3.66e-03	4.78e-03	-9.90e-03	-2.34e-03
## 547	5.88e-03	-1.99e-03	6.18e-05	-7.32e-03	-2.85e-02	-4.22e-03	-5.37e-03
## 548	-5.02e-02	6.25e-02	7.35e-02	1.94e-04	1.29e-02	7.16e-02	5.56e-03
## 549	8.99e-03	-1.35e-02	-1.50e-02	-1.27e-03	7.32e-04	-7.85e-03	-1.23e-02
## 550	-4.56e-04	5.11e-03	1.12e-03	-7.28e-03	-1.08e-02	1.41e-03	1.12e-02
## 551	-1.88e-02	2.17e-02	1.25e-03	-5.16e-03	4.90e-03	-1.02e-03	1.15e-02
## 552	-4.57e-03	-2.36e-04	3.86e-04	-1.15e-03	7.57e-03	3.50e-03	-1.65e-03
## 553	-3.19e-03	6.37e-04	-1.07e-03	2.32e-03	-2.18e-03	-2.15e-03	2.78e-03
## 554	2.46e-02	-3.45e-02	-5.77e-04	-1.41e-02	-1.29e-03	2.65e-02	-3.21e-02
## 555	-3.22e-02	1.80e-02	-1.99e-03	-8.76e-03	-8.51e-03	4.97e-03	-2.42e-02
## 556	3.25e-03	9.27e-04	-8.38e-04	-3.66e-03	-4.27e-03	-1.12e-03	-7.63e-03
## 557	1.50e-03	-8.82e-04	4.91e-05	-3.96e-04	1.09e-03	5.03e-04	-1.11e-03
## 558	4.30e-03	-4.98e-03	-9.42e-03	-1.10e-02	3.49e-03	-3.21e-03	3.89e-03
## 559	4.75e-03	7.06e-03	-2.04e-02	-6.59e-04	1.44e-02	-2.55e-02	2.14e-02
## 560	-1.36e-02	-8.57e-03	3.33e-03	-4.29e-03	3.60e-02	2.25e-02	-2.85e-02
## 561	-1.88e-02	2.17e-03	-8.82e-04	-7.84e-03	2.43e-02	1.56e-03	1.16e-02
## 562	4.83e-03	2.91e-03	-6.70e-04	2.00e-03	2.70e-04	-3.46e-03	2.53e-03
## 563	2.94e-02	-1.68e-02	-8.60e-03	2.08e-02	-4.11e-02	-5.81e-02	5.84e-02
## 564	1.66e-03	1.48e-02	-1.74e-03	-9.43e-03	-3.03e-03	-3.22e-02	-5.39e-03
## 565	-2.16e-02	-4.13e-02	-2.75e-03	-1.24e-02	-1.35e-02	1.57e-02	1.85e-02
## 566	-1.14e-03	1.83e-02	1.69e-03	-6.83e-03	2.37e-02	-2.84e-03	2.80e-02
## 567	-5.77e-02	9.48e-02	5.78e-02	-3.84e-03	-5.02e-03	1.02e-01	-3.47e-02
## 568	2.29e-03	-6.46e-04	-1.44e-04	-9.83e-04	2.33e-03	1.62e-03	-2.34e-03
## 569	-5.18e-02	6.49e-02	-5.98e-03	9.44e-03	-2.07e-02	-6.17e-02	8.06e-02

## 570	-1.47e-02	-5.41e-03	2.92e-02	3.38e-02	-2.18e-02	3.70e-03	1.97e-02
## 571	-5.04e-03	2.17e-02	-1.75e-02	-2.08e-02	-2.21e-03	9.60e-03	8.67e-03
## 572	-4.64e-02	2.39e-02	-4.10e-02	-4.51e-03	1.58e-02	2.44e-02	4.20e-02
## 573	-1.55e-02	1.92e-02	7.46e-04	-5.37e-03	7.57e-03	-3.05e-02	8.97e-03
## 574	8.17e-02	-4.76e-02	5.24e-03	2.85e-02	5.57e-02	-5.91e-03	6.25e-02
## 575	1.35e-03	3.31e-03	1.30e-03	-2.29e-03	1.27e-02	7.55e-03	4.43e-03
## 576	2.51e-02	-5.12e-02	-1.18e-03	-8.65e-03	1.91e-02	-2.22e-02	-1.88e-02
## 577	1.14e-02	9.33e-03	-1.39e-02	-4.10e-04	2.47e-04	3.17e-03	-4.22e-03
## 578	-8.05e-03	-1.49e-02	4.54e-05	-1.21e-02	1.78e-02	-2.55e-03	-2.95e-02
## 579	-2.05e-02	6.68e-03	-3.77e-02	8.16e-03	4.12e-02	3.35e-02	5.72e-02
## 580	-3.49e-02	-1.17e-02	5.14e-04	-7.74e-03	3.68e-02	1.67e-02	-6.85e-03
## 581	-3.72e-03	-6.82e-03	6.53e-05	-4.61e-03	1.31e-02	2.18e-03	1.66e-02
## 582	-7.23e-03	6.25e-03	-1.24e-03	-5.07e-03	-2.72e-03	9.20e-03	-1.24e-02
## 583	3.80e-04	-2.02e-04	-3.27e-04	-1.48e-05	2.02e-05	2.45e-04	-6.49e-05
## 584	6.00e-03	-7.17e-04	-5.00e-04	-3.36e-03	-6.85e-03	1.60e-03	-3.28e-03
## 585	7.42e-04	3.68e-03	-1.32e-02	-1.96e-03	3.82e-03	1.38e-03	5.19e-03
## 586	-3.57e-02	-6.32e-02	-6.07e-03	1.52e-02	5.39e-02	-2.91e-02	9.09e-03
## 587	-2.75e-02	9.45e-03	3.02e-02	3.49e-02	-9.09e-03	-7.45e-04	-2.55e-03
## 588	-1.85e-02	1.52e-02	9.38e-04	3.67e-03	8.42e-03	4.57e-04	7.90e-03
## 589	2.60e-04	-8.43e-03	-1.08e-03	1.15e-03	-6.05e-03	-7.98e-03	4.31e-03
## 590	7.84e-02	3.34e-04	-3.85e-03	1.24e-02	6.37e-03	-3.85e-02	-3.67e-02
## 591	1.20e-03	-2.89e-03	-2.32e-04	1.40e-03	-6.55e-03	-5.31e-04	1.08e-03
## 592	4.13e-02	7.27e-03	-8.63e-04	2.09e-02	-7.68e-02	4.28e-02	-7.86e-02
## 593	-1.25e-02	-4.69e-04	2.30e-03	-1.07e-03	1.78e-02	8.57e-03	-6.53e-04
## 594	2.37e-04	5.96e-05	-6.10e-06	2.17e-04	-2.05e-04	-6.05e-04	1.14e-04
## 595	-7.26e-03	-3.95e-03	4.25e-05	1.56e-03	3.51e-03	6.09e-03	1.81e-03
## 596	2.96e-02	7.46e-03	-1.53e-02	1.44e-02	-7.20e-02	-5.23e-02	5.63e-02
## 597	1.10e-03	-8.38e-04	4.12e-04	-1.74e-03	-5.79e-03	4.11e-03	-5.32e-03
## 598	2.81e-03	-1.46e-02	3.15e-04	-5.23e-03	-3.94e-03	1.31e-02	-1.30e-02
## 599	6.54e-02	-3.44e-02	-1.13e-03	2.39e-02	1.36e-02	-4.44e-02	1.78e-02
## 600	-3.80e-03	-1.82e-03	1.95e-04	-3.00e-03	-5.22e-03	-4.56e-03	-1.85e-03
## 601	-3.62e-04	1.03e-03	-5.98e-06	-4.60e-04	-4.36e-05	8.23e-04	-3.22e-04
## 602	-2.75e-02	-2.09e-02	-4.70e-02	-2.37e-03	-5.38e-04	-3.02e-02	5.36e-02
## 603	-1.24e-02	4.65e-02	1.56e-03	-1.32e-02	-8.81e-03	3.07e-02	-7.31e-03
## 604	7.02e-03	-5.65e-02	-1.59e-03	-1.10e-02	2.55e-02	1.76e-02	1.37e-02
## 605	6.37e-03	-1.25e-02	-1.03e-03	-6.71e-03	-4.24e-03	-3.00e-02	7.65e-03
## 606	-6.06e-02	3.32e-03	-4.27e-02	-2.64e-03	2.42e-02	-1.02e-02	4.54e-02
## 607	1.52e-02	-8.82e-03	-3.53e-02	-2.37e-03	2.71e-03	-2.21e-02	-1.10e-02
## 608	-2.33e-01	2.02e-01	1.60e-02	6.14e-02	9.32e-02	1.53e-02	9.25e-03
## 609	-3.10e-02	1.98e-01	3.43e-03	3.94e-02	-6.02e-02	-6.20e-02	9.24e-03
## 610	6.95e-03	6.86e-03	-1.85e-04	-2.10e-03	6.05e-03	-5.05e-03	3.40e-03
## 611	-6.60e-03	9.50e-03	-9.56e-04	-5.76e-03	1.58e-02	4.26e-03	-1.56e-03
## 612	1.40e-03	1.05e-03	-1.59e-05	-5.35e-04	-5.18e-04	2.65e-04	-3.52e-04
## 613	1.18e-02	2.80e-02	2.04e-03	-1.03e-02	4.12e-03	3.02e-02	2.03e-02
## 614	3.96e-04	-1.05e-03	-1.77e-04	-1.68e-03	8.15e-04	3.68e-03	-2.26e-03
## 615	2.03e-02	-6.15e-02	6.59e-02	-5.75e-03	7.31e-03	-3.27e-02	1.24e-02
## 616	-2.34e-03	5.49e-04	3.18e-03	3.71e-03	1.30e-03	9.91e-04	-1.50e-03
## 617	-7.22e-04	1.37e-03	4.72e-05	1.52e-03	5.43e-03	8.35e-03	-5.21e-03
## 618	-7.31e-03	-1.62e-02	4.89e-05	-5.03e-03	3.97e-03	6.66e-03	-1.45e-02
## 619	-5.77e-02	3.09e-02	5.03e-03	-4.94e-03	4.14e-02	2.25e-02	4.08e-02

## 620	-5.85e-04	-2.65e-04	1.05e-04	7.11e-04	-8.08e-04	-1.52e-03	-2.06e-03
## 621	-5.22e-02	-2.15e-02	-2.47e-03	-1.58e-02	-5.05e-02	-7.73e-02	-5.95e-03
## 622	-5.12e-03	6.08e-03	1.37e-03	-2.30e-03	-9.87e-04	9.55e-03	6.64e-03
## 623	-4.67e-03	3.38e-03	-2.34e-04	-3.62e-03	1.23e-02	-2.80e-03	3.91e-03
## 624	-2.10e-02	1.36e-02	-2.13e-02	-8.86e-04	-5.51e-03	6.52e-03	8.34e-03
## 625	-2.92e-03	1.85e-02	3.74e-03	-2.01e-03	9.25e-03	6.18e-03	2.43e-02
## 626	2.89e-03	-2.36e-03	3.95e-04	-4.30e-03	-2.31e-03	-2.95e-04	-1.36e-02
## 627	7.98e-05	6.50e-04	8.64e-05	-2.23e-04	5.13e-04	2.18e-04	-3.46e-04
## 628	3.10e-03	1.26e-03	-3.30e-03	1.58e-04	2.20e-04	-4.22e-03	-1.03e-03
## 629	3.77e-03	-2.75e-04	-1.39e-03	-4.64e-03	9.05e-03	-6.62e-03	-9.31e-03
## 630	-6.11e-03	4.75e-03	-9.43e-04	-4.91e-03	-8.01e-03	-8.33e-04	5.19e-03
## 631	-7.05e-03	1.32e-02	-1.13e-03	-4.76e-03	-7.40e-03	9.49e-03	-1.03e-02
## 632	2.28e-02	-1.45e-02	2.04e-03	-5.30e-03	-3.74e-03	5.53e-03	2.75e-02
## 633	1.43e-03	-4.13e-02	-4.37e-02	1.47e-03	-4.62e-02	2.80e-02	3.14e-02
## 634	6.64e-05	-1.01e-02	-1.92e-03	-8.77e-03	-2.31e-02	4.09e-03	2.84e-02
## 635	5.32e-03	3.29e-02	2.99e-03	-7.33e-03	4.49e-02	2.73e-02	-6.72e-03
## 636	3.76e-03	3.19e-03	-1.81e-04	-2.41e-03	3.04e-03	7.76e-04	-5.90e-03
## 637	-3.55e-02	-9.30e-03	6.15e-02	6.29e-03	-7.36e-02	7.99e-02	5.78e-02
## 638	5.96e-03	-3.67e-04	-1.63e-02	-1.86e-02	-8.89e-03	-6.26e-03	7.80e-03
## 639	-5.79e-03	1.44e-02	-9.40e-05	-5.47e-03	5.45e-03	9.54e-03	-3.82e-03
## 640	1.50e-03	-1.19e-02	-2.73e-04	-1.87e-03	-8.11e-03	4.28e-03	-8.42e-04
## 641	-3.17e-02	1.76e-02	3.18e-02	3.64e-02	-1.40e-02	8.91e-03	1.90e-02
## 642	-1.76e-02	8.71e-03	-2.38e-02	1.51e-03	1.92e-02	9.59e-03	1.21e-02
## 643	6.98e-03	-1.81e-02	-1.68e-03	-7.73e-03	1.67e-02	1.08e-03	8.59e-03
## 644	6.51e-03	3.43e-03	1.71e-03	-1.09e-03	-6.30e-03	6.94e-03	-1.68e-03
## 645	1.21e-02	9.49e-03	1.23e-03	-5.12e-03	-1.28e-02	-2.63e-03	-1.53e-02
## 646	3.61e-02	-2.69e-02	1.08e-03	2.76e-02	-6.23e-02	-5.31e-02	-4.16e-02
## 647	-9.72e-04	-6.44e-04	-2.05e-04	5.58e-04	4.65e-05	-5.58e-04	-2.93e-03
## 648	7.57e-04	2.73e-03	-4.55e-04	-1.95e-03	1.52e-03	-8.27e-03	-5.42e-03
## 649	4.83e-03	-4.91e-04	-1.52e-02	5.76e-04	-1.07e-02	-1.72e-02	-3.66e-03
## 650	-7.71e-03	-2.43e-03	-3.42e-04	2.38e-03	-1.29e-02	1.17e-02	9.02e-03
## 651	-2.17e-03	-3.00e-03	-6.76e-03	3.65e-04	5.31e-03	5.10e-03	-6.21e-03
## 652	1.99e-02	-2.22e-02	-1.85e-04	-6.66e-03	1.70e-02	1.29e-02	-7.97e-04
## 653	-3.41e-02	-1.52e-02	7.73e-02	8.53e-02	-4.50e-02	-3.34e-02	5.30e-02
## 654	-1.00e-02	-3.20e-05	2.09e-02	2.40e-02	-3.89e-03	6.28e-03	1.22e-02
## 655	1.35e-03	-6.65e-05	9.62e-05	2.12e-03	7.05e-03	-4.11e-03	5.53e-03
## 656	4.21e-03	1.90e-03	7.85e-04	-5.98e-03	-9.62e-03	9.53e-03	-1.32e-02
## 657	-1.04e-02	1.48e-02	-8.01e-05	1.72e-02	-3.87e-02	6.29e-02	-5.06e-02
## 658	-8.87e-03	8.48e-03	-8.41e-04	-6.07e-03	-6.83e-03	2.04e-03	1.65e-02
## 659	-1.08e-02	-4.87e-02	4.00e-03	-1.03e-02	1.06e-02	2.00e-03	3.19e-02
## 660	4.52e-03	6.00e-03	3.20e-04	-7.26e-03	-2.35e-03	8.89e-03	2.39e-02
## 661	-5.82e-02	2.37e-01	8.76e-02	1.05e-02	-4.17e-03	-4.71e-02	5.76e-02
## 662	1.30e-02	-1.72e-02	-1.75e-03	-6.77e-03	1.51e-02	1.77e-03	1.66e-02
## 663	1.21e-01	-7.33e-02	-6.56e-04	2.45e-02	-3.64e-02	-4.46e-02	1.50e-02
## 664	-1.54e-02	-7.32e-02	4.00e-03	3.28e-02	9.69e-02	7.26e-02	8.13e-02
## 665	6.27e-03	7.60e-03	9.77e-04	-4.08e-03	-1.60e-02	-5.36e-03	-2.69e-03
## 666	2.58e-02	-6.86e-02	-2.08e-03	-1.35e-02	-4.40e-02	2.05e-02	-2.61e-02
## 667	-9.19e-03	-8.77e-02	-6.08e-03	2.27e-02	-2.57e-02	-5.20e-02	-4.88e-02
## 668	7.04e-02	4.13e-02	3.13e-03	2.84e-02	3.05e-02	-4.57e-02	-4.86e-02
## 669	2.98e-03	5.25e-03	-5.46e-04	-3.25e-03	-1.99e-03	6.08e-05	-1.81e-03

## 670	4.92e-03	1.68e-02	-2.16e-03	1.58e-02	3.20e-02	-3.00e-02	6.08e-02
## 671	3.05e-03	4.94e-03	-1.02e-04	-9.18e-03	7.79e-03	1.25e-02	1.19e-02
## 672	2.30e-03	-1.04e-02	-1.54e-03	-8.34e-03	9.30e-03	-2.11e-03	9.54e-03
## 673	3.65e-03	-1.56e-02	-1.30e-03	-7.49e-03	1.07e-02	-9.86e-03	-4.33e-03
## 674	-2.81e-02	-4.95e-03	4.00e-03	-1.12e-02	-4.50e-02	3.74e-02	-4.18e-03
## 675	-7.74e-04	-2.09e-02	-1.36e-04	-6.34e-03	-1.79e-02	5.80e-03	-1.80e-04
## 676	-1.73e-02	1.83e-02	1.20e-03	-5.60e-03	2.39e-02	3.53e-03	1.08e-02
## 677	1.53e-02	2.87e-03	-6.11e-04	-6.75e-03	-8.04e-03	-1.51e-02	-1.57e-02
## 678	-5.92e-03	6.09e-04	8.37e-04	-1.11e-03	2.71e-03	1.39e-03	7.12e-03
## 679	2.61e-03	-4.31e-03	-1.15e-04	-1.69e-03	-6.59e-03	-6.02e-03	-5.40e-03
## 680	1.23e-03	-4.67e-04	-1.89e-03	-2.27e-03	5.40e-04	9.95e-04	8.75e-04
## 681	2.74e-04	-5.61e-03	8.07e-04	-5.80e-03	2.27e-02	1.57e-03	8.35e-03
## 682	-2.06e-03	1.41e-03	4.66e-04	2.61e-03	1.11e-02	-7.43e-03	1.05e-02
## 683	-5.62e-03	1.13e-03	1.68e-02	1.98e-02	-6.46e-03	7.53e-03	-2.31e-03
## 684	2.94e-02	-2.68e-02	-1.98e-04	1.84e-02	9.68e-03	5.05e-02	5.16e-03
## 685	-2.55e-02	-5.67e-03	-2.43e-03	-9.78e-03	6.71e-03	-2.18e-03	2.85e-02
## 686	-3.12e-02	1.63e-02	-3.22e-02	-1.08e-03	-3.23e-02	2.29e-02	-3.85e-03
## 687	-1.11e-02	-1.93e-03	2.99e-03	-3.05e-03	1.92e-02	4.07e-03	-1.63e-02
## 688	2.48e-03	2.02e-03	1.43e-04	-1.43e-03	-1.13e-03	3.14e-03	-1.20e-03
## 689	3.76e-02	-4.69e-02	-2.87e-03	1.50e-02	-2.40e-02	5.57e-02	3.35e-02
## 690	5.01e-02	-6.03e-02	-2.63e-03	1.67e-02	-7.17e-02	-2.99e-02	-6.73e-02
## 691	-3.04e-02	2.00e-02	2.71e-03	-8.24e-03	1.43e-02	-6.07e-03	-2.38e-02
## 692	1.11e-02	-3.95e-02	-3.83e-02	-1.80e-03	-4.42e-02	-3.93e-03	-2.49e-02
## 693	1.36e-03	2.88e-03	3.23e-04	-2.86e-03	6.60e-03	6.73e-03	-2.17e-03
## 694	4.01e-02	-3.10e-02	-7.22e-03	2.19e-02	-4.00e-02	-4.89e-02	7.27e-03
## 695	-1.02e-02	-5.58e-03	-8.98e-04	-8.82e-03	-1.53e-02	1.32e-02	1.12e-02
## 696	1.43e-01	-3.63e-02	-2.18e-03	2.56e-02	-1.22e-02	-5.75e-02	-8.59e-02
## 697	8.79e-03	1.20e-02	-1.93e-02	-2.29e-02	-5.09e-04	-6.04e-03	1.80e-03
## 698	1.32e-02	3.34e-03	-1.81e-02	-3.70e-04	-1.89e-02	-1.73e-02	-5.44e-03
## 699	9.94e-03	-2.67e-03	-5.46e-04	-3.66e-03	-7.82e-03	-7.67e-03	-2.45e-03
## 700	-9.40e-03	4.65e-03	2.40e-04	4.77e-03	5.67e-03	-1.49e-02	2.07e-02
## 701	-1.56e-01	2.68e-01	8.07e-03	3.91e-02	-8.93e-02	-5.99e-02	8.94e-02
## 702	-6.38e-03	6.60e-03	6.96e-04	3.17e-03	7.27e-03	-3.74e-03	-3.64e-04
## 703	5.29e-04	1.16e-03	-9.26e-05	-8.49e-04	1.71e-03	2.32e-04	-2.25e-04
## 704	-5.64e-03	-1.64e-02	5.44e-02	6.17e-02	3.28e-02	-2.17e-04	-3.38e-03
## 705	-2.49e-02	-5.49e-03	2.38e-03	1.08e-02	-6.63e-05	-1.60e-02	2.23e-02
## 706	9.28e-04	-1.00e-03	-2.30e-05	-5.63e-04	-3.85e-04	1.09e-03	1.90e-03
## 707	2.13e-02	-7.99e-02	-1.54e-01	-1.80e-01	8.53e-02	9.01e-02	-3.73e-02
## 708	2.06e-02	-5.22e-03	-1.02e-02	-4.21e-04	-1.06e-02	-5.76e-03	-7.27e-04
## 709	5.39e-03	-2.69e-03	-2.49e-02	-2.85e-02	8.72e-03	-2.72e-03	-1.60e-02
## 710	6.31e-02	4.31e-04	-1.05e-01	-1.19e-01	-4.19e-02	-5.06e-03	4.72e-03
## 711	-1.14e-02	3.94e-04	1.89e-02	2.25e-02	1.19e-03	-9.31e-03	-8.20e-03
## 712	-1.03e-02	-1.02e-02	-1.42e-04	1.57e-02	1.44e-02	2.51e-03	4.26e-02
## 713	1.12e-03	-4.32e-03	1.92e-05	-7.57e-03	1.27e-02	-9.84e-03	9.67e-03
## 714	-1.43e-02	1.35e-02	9.12e-04	4.81e-03	2.57e-03	-8.50e-03	1.09e-02
## 715	-1.44e-02	-2.06e-02	1.16e-03	6.63e-03	6.36e-03	-1.75e-02	2.53e-02
## 716	1.50e-02	1.22e-03	-2.67e-02	5.11e-03	1.16e-03	2.55e-02	-3.68e-03
## 717	-1.36e-02	1.08e-03	1.92e-02	1.38e-03	-5.27e-04	2.07e-04	-1.97e-02
## 718	-1.02e-02	9.84e-03	-1.99e-05	-5.75e-03	-1.20e-02	-1.35e-02	-3.28e-03
## 719	-4.64e-03	-1.85e-02	3.06e-02	3.55e-02	1.68e-02	-1.78e-02	-1.17e-02

## 720	3.39e-02	-2.83e-02	4.51e-04	-7.17e-03	-8.77e-03	1.02e-02	-1.62e-02
## 721	5.69e-02	-2.91e-02	-9.18e-03	1.12e-02	-7.16e-02	6.85e-02	-7.40e-02
## 722	6.84e-03	-1.86e-03	1.51e-05	-9.69e-04	-2.35e-04	-5.27e-03	-3.55e-03
## 723	6.94e-03	-1.45e-02	-1.91e-02	-1.95e-04	-1.87e-02	-1.38e-03	-5.08e-03
## 724	-1.55e-02	1.86e-02	2.22e-03	7.51e-03	-1.05e-02	-2.30e-03	1.72e-02
## 725	-2.73e-03	1.30e-02	-2.14e-03	-8.01e-03	-1.13e-02	-1.08e-02	-1.18e-02
## 726	3.82e-02	1.99e-02	6.82e-03	2.79e-02	-2.64e-02	2.59e-02	1.02e-02
## 727	1.33e-03	8.25e-04	-1.92e-02	1.22e-03	-2.10e-03	1.61e-02	-4.70e-03
## 728	-2.67e-02	2.71e-02	4.31e-02	4.84e-02	2.09e-02	1.00e-02	9.71e-03
## 729	-8.12e-03	1.49e-02	1.04e-04	3.73e-03	1.73e-02	1.23e-02	2.80e-03
## 730	-2.20e-02	2.33e-02	7.90e-04	-1.48e-02	1.89e-02	-5.76e-02	-9.09e-04
## 731	-2.11e-02	1.46e-02	3.40e-03	-2.86e-03	3.67e-02	4.66e-03	1.44e-02
## 732	1.80e-02	-4.48e-02	-1.78e-03	1.28e-02	3.12e-02	8.41e-03	3.87e-02
## 733	3.40e-02	-2.98e-03	6.57e-02	-1.24e-03	-7.84e-02	-2.40e-02	-2.88e-02
## 734	2.43e-05	-1.30e-02	-8.98e-04	3.21e-03	4.84e-03	-8.57e-03	1.11e-02
## 735	-7.89e-02	4.70e-02	-1.19e-03	-1.28e-02	4.71e-02	7.76e-03	1.64e-02
## 736	-9.80e-03	-7.96e-03	1.71e-03	-7.64e-03	2.53e-02	9.80e-03	3.17e-02
## 737	1.68e-05	2.17e-06	1.25e-05	-4.07e-04	-1.52e-03	6.03e-04	-2.48e-04
## 738	2.26e-03	-9.74e-03	-1.52e-04	-4.79e-03	5.36e-03	1.77e-03	-1.11e-02
## 739	-3.13e-04	-3.69e-04	1.88e-05	2.90e-04	-3.43e-04	-5.71e-04	6.46e-04
## 740	7.80e-04	6.15e-03	-1.55e-04	-4.12e-03	-5.02e-03	8.13e-03	1.29e-02
## 741	9.43e-04	-4.86e-03	-1.14e-03	-4.37e-03	8.52e-04	-1.35e-03	4.11e-03
## 742	-9.81e-03	-8.62e-03	-3.87e-04	2.04e-03	-1.38e-02	-4.47e-03	1.20e-02
## 743	7.23e-03	-1.43e-02	-1.06e-04	-2.92e-03	2.40e-04	9.01e-05	1.05e-02
## 744	5.35e-03	-1.22e-02	2.54e-03	-5.25e-03	3.96e-03	1.61e-02	-1.35e-03
## 745	1.34e-01	-4.43e-02	1.74e-03	2.12e-02	4.14e-02	4.38e-03	-7.75e-02
## 746	1.62e-02	-5.04e-02	-3.33e-02	3.07e-03	4.40e-02	-2.69e-02	-3.94e-03
## 747	9.09e-03	4.62e-04	-2.00e-02	-2.38e-02	-1.33e-02	-2.95e-03	-5.90e-03
## 748	-2.70e-02	3.14e-02	7.29e-03	-5.12e-03	-1.53e-02	1.82e-02	2.34e-02
## 749	9.95e-02	-4.93e-02	-1.06e-01	-1.22e-01	-4.98e-02	1.02e-01	-2.53e-02
## 750	6.09e-02	2.54e-02	1.92e-03	3.44e-02	-9.73e-02	-6.91e-02	-1.26e-01
## 751	3.01e-03	6.30e-04	4.20e-05	-5.93e-04	-1.86e-03	-2.85e-03	-1.33e-03
## 752	-8.71e-04	2.62e-02	-5.68e-02	-6.73e-02	-3.63e-02	-2.35e-02	2.95e-02
## 753	1.32e-02	-3.92e-02	-5.89e-03	3.10e-02	2.59e-02	5.94e-02	1.05e-02
## 754	1.13e-02	1.19e-02	-4.24e-02	5.14e-03	-2.21e-02	-5.64e-02	-4.07e-02
## 755	-1.58e-02	-6.68e-03	4.16e-02	4.77e-02	-1.02e-02	4.06e-03	9.47e-03
## 756	-1.78e-02	-1.03e-02	-8.55e-04	2.36e-03	1.17e-02	5.71e-03	1.68e-02
## 757	-9.94e-03	4.35e-03	2.76e-02	3.15e-02	-8.93e-03	-2.80e-02	-1.29e-02
## 758	3.82e-03	-4.89e-03	-6.17e-04	1.81e-03	-8.89e-03	-4.74e-03	-2.37e-03
## 759	3.89e-03	-2.84e-02	2.09e-04	-2.71e-03	-5.16e-03	9.92e-03	7.16e-03
## 760	4.14e-03	-4.51e-02	-1.32e-03	-1.10e-02	-4.65e-03	-4.11e-02	1.48e-02
## 761	-5.13e-03	-3.30e-04	-6.83e-03	3.56e-04	8.46e-03	5.38e-03	-1.37e-03
## 762	2.83e-02	-1.27e-02	4.25e-03	3.46e-02	-3.09e-02	4.20e-02	-9.87e-02
## 763	5.85e-02	-4.26e-02	4.15e-02	-8.32e-03	-4.06e-02	-3.63e-02	-6.04e-02
## 764	3.41e-02	-1.34e-02	3.13e-04	-8.78e-03	-2.79e-02	-2.03e-04	-4.35e-03
## 765	1.10e-02	3.08e-03	-7.64e-04	-4.30e-03	-7.15e-03	-1.31e-05	-1.14e-02
## 766	1.49e-03	-4.02e-03	-1.43e-02	4.89e-04	-9.61e-03	7.42e-03	-2.87e-03
## 767	-5.13e-03	7.33e-03	2.11e-03	-2.83e-03	-2.21e-02	1.23e-02	1.03e-02
## 768	-1.36e-02	-5.22e-03	2.32e-04	-5.97e-03	2.36e-02	1.12e-02	-1.62e-02
## 769	-8.17e-03	-1.66e-02	-1.34e-03	-7.08e-03	2.25e-02	-3.76e-02	-6.20e-03

## 770	-2.61e-02	1.70e-02	-3.10e-02	-3.20e-03	-7.26e-03	2.13e-02	3.39e-02
## 771	-9.56e-03	-6.97e-03	1.74e-03	7.30e-03	-1.85e-02	-1.36e-02	1.87e-02
## 772	5.23e-04	-1.74e-02	-6.75e-04	-3.48e-03	-6.10e-03	5.24e-03	-6.24e-04
## 773	7.82e-03	-1.55e-02	-1.14e-02	8.35e-04	-8.44e-03	3.37e-04	1.29e-02
## 774	-8.22e-03	2.54e-03	-5.83e-04	-6.08e-03	-1.61e-03	-4.18e-03	-1.20e-02
## 775	-1.17e-02	-1.45e-03	1.71e-02	2.04e-02	5.47e-03	4.78e-03	-8.01e-04
## 776	7.31e-04	1.62e-03	-6.26e-04	-3.00e-03	6.26e-03	-1.17e-02	-2.08e-03
## 777	1.25e-02	-6.14e-02	5.51e-02	-2.77e-03	-2.14e-03	1.03e-03	4.85e-02
## 778	1.03e-01	-4.62e-02	1.80e-03	2.21e-02	6.93e-02	8.75e-03	7.68e-03
## 779	1.33e-02	-6.33e-03	-1.19e-03	-6.03e-03	-3.85e-03	3.86e-03	-1.08e-02
## 780	-1.78e-02	7.74e-02	-1.35e-02	1.72e-02	9.43e-02	-3.36e-02	-1.12e-01
## 781	1.45e-01	-4.67e-02	-1.50e-01	-1.75e-01	9.75e-02	1.07e-01	-3.97e-02
## 782	-4.99e-02	2.36e-02	8.97e-04	-7.83e-03	3.52e-02	2.34e-02	3.65e-02
## 783	-8.87e-03	6.78e-03	-6.76e-04	-4.46e-03	-1.38e-02	-2.32e-02	-7.26e-03
## 784	-2.53e-04	4.04e-03	-4.41e-04	1.25e-03	-3.38e-03	-7.20e-04	-2.77e-03
## 785	-7.20e-04	1.44e-03	-8.86e-05	-9.80e-04	2.57e-03	-1.75e-03	-9.15e-04
## 786	1.21e-02	-1.32e-03	-1.03e-03	-5.97e-03	-1.72e-02	-1.32e-02	1.72e-02
## 787	-2.82e-02	8.23e-03	4.24e-02	5.04e-02	-2.10e-02	2.90e-03	2.55e-02
## 788	-1.04e-03	8.24e-04	1.30e-03	-1.65e-04	5.41e-04	-8.39e-04	1.22e-03
## 789	1.59e-03	5.50e-03	2.02e-04	-2.68e-03	-1.52e-03	-5.64e-04	-9.90e-04
## 790	2.14e-02	-1.90e-02	-2.78e-03	2.21e-02	1.16e-01	-7.48e-02	-4.29e-02
## 791	-4.24e-05	-5.83e-04	2.23e-04	8.71e-04	-4.95e-04	-6.62e-04	1.32e-03
## 792	-9.12e-02	1.20e-02	2.77e-03	2.70e-02	6.26e-02	-4.42e-02	6.10e-02
## 793	-4.39e-03	-2.55e-02	7.19e-02	1.15e-02	1.52e-02	1.16e-01	-7.28e-02
## 794	-1.66e-02	8.80e-03	-1.63e-03	-1.07e-02	-3.34e-03	-1.30e-02	2.76e-02
## 795	-1.76e-02	-8.00e-03	-3.05e-02	-2.42e-04	7.79e-03	1.48e-02	3.25e-02
## 796	1.05e-02	-2.41e-03	-8.21e-04	-9.51e-03	2.58e-02	-2.50e-03	-2.14e-02
## 797	-2.27e-02	-8.46e-02	-7.90e-03	2.48e-02	6.66e-02	-3.69e-02	6.41e-02
## 798	2.99e-02	-2.73e-02	1.05e-02	4.13e-02	7.59e-02	9.06e-02	-9.57e-02
## 799	9.82e-03	7.90e-03	2.38e-04	1.55e-02	2.20e-02	5.68e-02	-5.05e-02
## 800	-1.93e-03	2.28e-03	8.25e-05	-2.46e-03	4.06e-03	4.70e-03	-8.13e-03
## 801	6.88e-02	-1.17e-03	7.84e-02	9.23e-03	3.26e-02	-4.81e-02	-8.48e-02
## 802	-8.81e-02	1.38e-01	6.97e-02	-1.28e-03	2.62e-02	-5.37e-02	5.27e-02
## 803	3.05e-03	-2.53e-03	-1.49e-02	-5.03e-04	-4.68e-03	3.19e-03	-1.20e-02
## 804	-4.89e-03	4.03e-04	8.55e-03	9.99e-03	1.22e-03	2.56e-03	-9.47e-04
## 805	4.06e-03	-2.61e-03	-1.16e-02	-1.38e-02	3.91e-03	-4.43e-03	-6.78e-03
## 806	5.16e-03	6.21e-03	-1.45e-02	-1.67e-02	3.88e-03	-6.58e-04	-3.98e-03
## 807	1.43e-02	-1.80e-02	-4.04e-04	-5.06e-03	-6.51e-03	3.41e-03	8.44e-03
## 808	8.54e-03	-8.92e-03	-1.96e-03	-9.21e-03	1.46e-03	-3.61e-04	-9.28e-04
## 809	-9.63e-04	-7.15e-04	8.21e-05	3.75e-04	3.28e-04	1.32e-03	2.71e-04
## 810	-2.76e-03	-6.57e-03	8.55e-04	3.22e-03	1.04e-03	-5.32e-03	7.00e-03
## 811	3.80e-03	5.29e-04	-2.71e-04	1.17e-03	-5.20e-03	-2.95e-03	-7.48e-03
## 812	-2.42e-03	-1.49e-03	3.16e-05	-5.16e-03	1.82e-02	1.05e-02	-1.29e-02
## 813	-1.56e-04	-7.59e-04	-1.90e-02	2.63e-03	-8.40e-03	-3.14e-02	-4.69e-03
## 814	2.37e-04	-5.54e-02	9.37e-02	9.31e-03	-9.81e-02	-7.03e-02	-1.08e-01
## 815	2.08e-03	-2.62e-04	-4.65e-04	-2.21e-03	-6.57e-03	-3.41e-03	-8.57e-04
## 816	-2.49e-02	4.27e-02	3.82e-03	-1.38e-02	-2.44e-02	3.33e-02	-3.41e-02
## 817	-1.48e-02	-6.15e-03	2.50e-02	2.96e-02	9.13e-03	3.96e-04	-3.19e-03
## 818	-1.42e-03	1.42e-03	4.64e-03	5.35e-03	2.81e-03	-1.83e-03	2.49e-03
## 819	7.00e-03	2.40e-04	-1.37e-02	7.07e-04	1.19e-03	-1.46e-02	-3.89e-03

## 820	-4.06e-02	1.44e-02	-8.71e-04	-8.14e-03	-3.21e-02	1.94e-02	3.00e-02
## 821	2.06e-03	-1.48e-03	-4.14e-03	-5.29e-04	-2.58e-03	-8.76e-04	-3.16e-03
## 822	-2.67e-04	7.70e-04	1.42e-04	8.46e-04	-3.77e-03	-4.87e-04	2.62e-03
## 823	2.65e-03	-5.24e-03	-2.21e-02	2.13e-04	-8.80e-03	1.53e-02	-2.03e-02
## 824	-1.61e-02	1.26e-02	-2.17e-02	-1.82e-04	1.46e-02	-2.52e-03	-1.95e-02
## 825	-1.23e-02	1.86e-03	-2.07e-03	-1.71e-02	3.99e-02	-6.93e-02	1.69e-02
## 826	-2.04e-02	2.89e-02	2.38e-03	-9.25e-03	9.21e-03	9.18e-03	1.91e-02
## 827	3.86e-04	-5.33e-04	1.01e-04	-2.75e-04	8.65e-04	8.02e-04	-1.08e-04
## 828	-2.88e-02	9.81e-03	-4.75e-02	-3.89e-03	1.13e-03	1.08e-02	-3.13e-03
## 829	1.19e-01	-1.00e-01	-1.64e-01	-1.88e-01	-8.46e-02	-1.01e-02	2.08e-02
## 830	1.56e-02	1.10e-02	-3.42e-03	1.18e-02	-1.21e-02	1.38e-03	-6.39e-02
## 831	-1.36e-02	-2.73e-02	4.19e-03	-5.98e-03	4.19e-02	-1.32e-02	1.99e-02
## 832	2.80e-02	9.12e-03	8.31e-02	-1.94e-03	7.48e-03	4.43e-02	2.30e-02
## 833	-5.53e-04	-2.86e-03	-1.42e-03	-5.98e-03	9.18e-03	-1.82e-02	-2.43e-03
## 834	-1.22e-02	8.54e-03	6.40e-06	-5.10e-03	1.82e-02	3.88e-03	-1.50e-02
## 835	3.09e-03	-9.97e-04	-5.36e-04	-2.64e-03	-7.54e-03	7.53e-04	3.18e-03
## 836	-6.66e-03	-7.01e-03	-2.31e-04	-6.06e-03	1.25e-02	1.82e-03	-7.94e-03
## 837	1.29e-01	-6.63e-02	7.22e-03	3.47e-02	-6.47e-02	1.03e-01	8.29e-02
## 838	-4.26e-04	4.49e-05	-1.51e-02	8.31e-04	4.46e-03	-9.48e-04	3.93e-03
## 839	3.95e-02	4.72e-04	5.22e-02	1.18e-04	-1.80e-02	1.27e-02	4.42e-03
## 840	-9.64e-04	-1.88e-02	1.31e-04	-6.21e-03	1.35e-03	7.58e-03	1.16e-02
## 841	-1.50e-03	4.19e-04	5.66e-05	-1.47e-03	-2.11e-03	3.23e-03	-4.42e-03
## 842	-4.77e-04	2.66e-02	-6.88e-04	-1.01e-02	1.63e-02	-4.16e-02	-2.77e-02
## 843	6.58e-03	-1.66e-02	-5.06e-03	1.74e-02	8.68e-02	1.82e-02	9.60e-03
## 844	-6.16e-03	-6.80e-03	-2.59e-04	1.86e-03	6.84e-03	-4.50e-03	-7.85e-03
## 845	6.22e-04	6.92e-03	-4.71e-04	-3.94e-03	-1.48e-03	-8.65e-04	-3.37e-03
## 846	-2.46e-02	2.61e-02	-4.68e-02	4.55e-03	-3.92e-04	-6.79e-02	-1.24e-02
## 847	8.42e-05	2.38e-03	-5.33e-04	-2.05e-03	-1.14e-04	2.67e-03	-3.91e-04
## 848	6.28e-03	7.90e-03	-2.59e-02	-9.96e-04	3.50e-03	2.03e-02	-2.35e-02
## 849	4.12e-03	-8.67e-03	-1.45e-02	-7.78e-04	3.33e-03	5.12e-03	-1.17e-02
## 850	4.23e-02	8.94e-02	8.38e-03	3.20e-02	8.77e-02	3.68e-05	-8.49e-02
## 851	-9.10e-03	-2.63e-03	1.68e-02	1.98e-02	-8.08e-04	5.77e-03	-1.56e-03
## 852	-4.93e-03	3.03e-03	5.16e-04	2.27e-03	-2.37e-03	-3.47e-03	8.22e-03
## 853	1.25e-03	-3.00e-03	-1.90e-04	1.25e-03	4.89e-03	-1.13e-03	-2.26e-03
## 854	-4.75e-03	3.83e-02	-1.22e-03	-1.26e-02	8.09e-03	7.38e-04	-9.15e-03
## 855	1.65e-02	-3.93e-02	1.05e-03	-7.57e-03	-3.73e-02	7.48e-03	3.95e-02
## 856	3.33e-03	-4.53e-04	2.81e-04	2.97e-03	2.65e-03	-6.41e-03	8.12e-03
## 857	-6.58e-02	4.06e-02	8.10e-04	-1.28e-02	-3.36e-03	2.21e-02	4.65e-02
## 858	-4.73e-02	9.96e-02	-5.07e-03	1.71e-02	4.40e-02	1.00e-02	5.64e-03
## 859	-3.01e-02	9.59e-03	3.82e-03	1.11e-02	1.67e-02	-4.07e-03	2.26e-02
## 860	-3.25e-02	2.16e-02	-6.83e-04	-1.72e-02	-1.04e-02	-2.09e-02	2.46e-02
## 861	4.89e-02	-5.01e-02	5.76e-02	-3.68e-03	5.13e-02	-3.19e-02	5.40e-03
## 862	-7.61e-04	-2.02e-04	4.12e-05	2.98e-04	1.08e-03	-6.40e-04	1.88e-04
## 863	-2.79e-02	-3.25e-02	4.87e-02	5.66e-02	3.13e-02	-2.08e-02	-2.40e-02
## 864	-6.96e-04	-7.81e-04	4.01e-04	-1.86e-03	1.11e-02	5.60e-03	3.29e-03
## 865	1.28e-01	6.79e-02	-1.44e-01	-1.71e-01	9.59e-03	-4.15e-02	-8.98e-02
## 866	7.43e-03	8.14e-03	-2.11e-03	-7.50e-03	-1.47e-02	-2.70e-02	-3.00e-03
## 867	1.05e-03	-1.63e-02	-2.17e-02	6.57e-04	-1.59e-02	1.47e-02	1.09e-02
## 868	1.95e-06	4.84e-04	-5.89e-04	1.21e-04	-5.77e-04	3.32e-04	-5.64e-04
## 869	-1.33e-02	1.13e-02	-9.20e-04	-7.16e-03	-1.74e-02	-2.31e-02	-2.13e-02



## 870	-8.25e-04	-4.43e-03	2.23e-05	1.83e-03	1.13e-02	6.48e-03	9.00e-03
## 871	3.95e-03	1.45e-02	1.88e-03	-3.48e-03	-2.37e-02	-1.87e-02	-4.58e-03
## 872	5.26e-02	-6.05e-02	6.97e-04	2.12e-02	1.90e-02	5.64e-02	8.67e-02
## 873	-5.40e-03	7.50e-03	-2.48e-02	9.29e-04	-1.38e-02	-3.34e-02	1.02e-02
## 874	-3.77e-03	-3.84e-03	-1.29e-03	-4.03e-03	-1.78e-03	1.59e-03	-1.16e-03
## 875	-2.12e-03	3.13e-03	-3.51e-04	-2.50e-03	-3.96e-04	1.38e-03	-6.68e-04
## 876	7.76e-03	-1.82e-03	-4.34e-04	-3.30e-03	5.33e-03	-9.99e-03	-5.21e-03
## 877	2.17e-03	2.31e-02	8.46e-04	-7.58e-03	5.24e-03	-2.57e-02	-5.27e-03
## 878	1.00e-03	8.39e-03	4.33e-04	3.29e-03	-1.26e-02	-5.22e-03	8.66e-03
## 879	-4.20e-03	6.70e-03	-2.77e-02	-3.34e-02	-1.78e-02	-1.02e-02	1.31e-02
## 880	-5.52e-03	7.50e-03	1.12e-04	1.21e-03	-7.09e-04	-6.84e-04	-1.83e-03
## 881	2.21e-03	-8.16e-03	-3.67e-02	-1.60e-03	4.20e-02	-1.06e-02	-1.10e-02
## 882	1.24e-03	7.29e-03	-2.91e-02	1.09e-03	-3.07e-02	2.04e-02	-2.18e-02
## 883	-1.36e-02	2.58e-02	-3.39e-03	-1.63e-02	3.14e-02	3.20e-02	-3.48e-03
## 884	-2.87e-03	2.84e-03	4.32e-04	-1.03e-03	5.57e-03	1.19e-04	4.72e-03
## 885	1.30e-03	-1.32e-02	-1.61e-03	-6.96e-03	1.91e-02	-2.98e-03	7.79e-03
## 886	1.24e-03	1.15e-02	-1.29e-04	-6.06e-03	-1.76e-02	-1.89e-03	-2.55e-03
## 887	8.82e-03	1.63e-02	1.28e-03	-4.61e-03	-2.20e-02	1.58e-02	-1.53e-02
## 888	-3.18e-02	2.86e-02	-5.09e-02	1.26e-02	3.96e-02	-8.88e-02	6.47e-02
## 889	-1.53e-02	9.15e-03	3.01e-02	3.44e-02	-1.25e-02	3.00e-03	-3.17e-03
## 890	-7.08e-02	4.35e-02	5.36e-03	-1.24e-02	-2.96e-02	-1.85e-02	6.62e-02
## 891	3.10e-03	-3.53e-03	6.62e-03	-5.69e-04	-6.74e-05	-5.25e-03	6.42e-03
## 892	-1.33e-04	1.62e-04	-1.17e-05	5.32e-05	1.09e-04	-1.21e-04	-2.13e-04
## 893	2.13e-02	-5.72e-02	-9.59e-02	-1.08e-01	-2.39e-02	-4.98e-03	-5.95e-02
## 894	2.13e-03	1.35e-03	-4.42e-04	-3.21e-03	-2.52e-03	5.73e-03	9.08e-03
## 895	-1.66e-02	-2.05e-02	-3.29e-03	2.01e-03	-1.92e-02	-1.74e-02	3.74e-02
## 896	-1.92e-02	7.40e-03	2.22e-03	-6.38e-03	-3.43e-02	-4.93e-03	-3.97e-03
## 897	5.12e-03	5.31e-03	-2.60e-03	-9.82e-03	-1.43e-02	-3.44e-02	-6.88e-03
## 898	5.21e-03	-1.66e-02	-4.79e-04	-2.93e-03	4.93e-03	3.45e-03	-1.25e-03
## 899	1.12e-04	-7.70e-03	9.94e-04	3.49e-03	1.22e-03	-7.05e-03	3.97e-03
## 900	6.24e-04	-2.89e-05	-2.92e-05	-4.30e-04	-1.01e-03	8.30e-04	2.19e-03
## 901	-1.29e-02	3.05e-04	-1.04e-02	1.61e-03	7.92e-03	5.78e-03	-2.56e-03
## 902	3.20e-03	-1.80e-02	6.10e-04	-2.44e-03	-3.87e-03	6.67e-03	-1.04e-02
## 903	-5.91e-03	6.08e-03	-1.98e-04	-4.33e-03	-7.74e-03	4.98e-03	1.41e-02
## 904	9.57e-03	1.17e-02	5.28e-04	-8.81e-03	-2.44e-02	3.88e-03	-2.42e-03
## 905	-1.52e-03	-7.51e-04	-1.86e-05	7.72e-04	-4.60e-04	-1.99e-03	2.75e-03
## 906	1.09e-03	-6.36e-03	2.24e-03	5.46e-03	-4.45e-03	-8.50e-03	1.21e-02
## 907	8.76e-03	-3.10e-03	-1.70e-04	-2.79e-03	-8.35e-03	-9.58e-03	-3.16e-03
## 908	-2.36e-03	-2.74e-03	-2.74e-04	2.25e-03	6.44e-03	-4.19e-03	-4.54e-03
## 909	-4.00e-04	-1.10e-04	-2.13e-06	1.22e-04	-2.37e-04	-9.40e-06	2.88e-04
## 910	-2.08e-02	5.63e-02	8.22e-03	-1.15e-02	4.90e-02	-7.79e-02	2.74e-02
## 911	2.05e-03	6.48e-03	-1.23e-04	-2.62e-03	6.59e-03	6.26e-03	-7.33e-03
## 912	1.58e-02	-1.15e-02	3.38e-02	3.51e-03	-6.76e-03	4.47e-02	4.65e-03
## 913	-1.55e-02	3.78e-02	4.37e-03	-1.10e-02	1.86e-02	2.12e-02	-5.71e-03
## 914	3.55e-03	1.25e-02	1.30e-03	2.37e-02	1.08e-01	-5.14e-02	-9.38e-02
## 915	-2.99e-02	-2.60e-03	6.57e-02	7.17e-02	3.36e-02	6.08e-03	-2.17e-02
## 916	8.94e-02	-4.24e-02	5.09e-02	3.65e-03	-4.69e-02	1.73e-03	-5.13e-02
## 917	5.54e-03	-2.98e-03	1.58e-04	2.28e-03	-1.14e-02	-3.95e-03	9.04e-03
## 918	-9.79e-03	-1.60e-02	4.32e-03	-1.04e-02	5.29e-02	3.35e-02	-3.70e-03
## 919	2.67e-02	-1.33e-03	-2.37e-02	-1.37e-03	2.33e-02	2.72e-03	-2.12e-02

## 920	-2.39e-04	4.64e-04	1.71e-06	1.17e-04	4.41e-04	3.54e-04	3.35e-04
## 921	-4.58e-05	6.18e-03	-1.17e-02	-1.34e-03	1.33e-02	-1.00e-02	-1.87e-03
## 922	-4.86e-02	1.96e-02	-4.42e-02	5.29e-03	-1.09e-03	3.56e-02	-3.83e-02
## 923	-4.21e-03	-1.68e-03	4.04e-04	2.65e-03	5.59e-03	-3.31e-03	1.71e-03
## 924	-5.07e-03	5.45e-03	-1.23e-02	2.59e-04	2.97e-03	-1.79e-03	-2.03e-03
## 925	4.68e-03	-1.05e-02	2.37e-03	-6.85e-03	4.74e-03	8.18e-03	-3.32e-03
## 926	1.23e-02	1.76e-02	5.63e-03	-3.12e-03	1.36e-02	1.20e-02	1.54e-02
## 927	2.49e-03	-5.73e-05	-6.29e-05	-2.00e-03	6.48e-04	1.53e-03	-3.57e-03
## 928	-1.88e-02	1.12e-02	3.87e-03	-5.57e-03	1.71e-02	1.82e-02	1.09e-04
## 929	-5.24e-02	1.11e-01	2.57e-03	3.66e-02	-3.62e-02	5.14e-02	-1.28e-01
## 930	-2.59e-02	8.53e-03	-3.95e-02	2.93e-03	4.77e-02	2.49e-02	-3.39e-02
## 931	-1.64e-02	-8.95e-02	-4.58e-02	-6.01e-03	-2.59e-02	7.26e-03	2.11e-02
## 932	-6.73e-03	1.64e-02	5.12e-02	5.74e-02	-4.65e-03	4.13e-03	-3.32e-03
## 933	5.48e-02	-5.84e-02	-4.01e-03	2.73e-02	-3.22e-03	-1.20e-02	-5.18e-02
## 934	-2.75e-02	1.26e-02	1.53e-03	-6.20e-03	7.03e-03	2.00e-02	-2.54e-02
## 935	-2.45e-02	1.45e-02	1.53e-04	-9.10e-03	2.70e-02	2.04e-02	-2.50e-02
## 936	-1.78e-02	-6.58e-03	-9.07e-04	4.88e-03	-8.20e-03	-1.48e-03	4.29e-03
## 937	2.20e-02	8.90e-03	-3.12e-02	7.91e-04	2.43e-02	-4.14e-02	9.52e-03
## 938	-8.72e-03	2.30e-02	-7.27e-04	-1.66e-02	3.03e-02	-1.82e-02	-3.56e-03
## 939	1.66e-02	-4.39e-02	-2.18e-03	-6.81e-03	-1.96e-03	-1.83e-02	1.62e-02
## 940	-8.58e-02	-5.50e-02	6.26e-04	3.24e-02	5.14e-02	-2.89e-02	1.00e-01
## 941	-2.03e-03	6.52e-02	-2.53e-05	2.05e-02	-5.15e-02	1.06e-01	2.12e-02
## 942	-1.26e-02	1.15e-02	6.20e-06	-7.68e-03	-1.47e-02	5.78e-03	2.25e-02
## 943	-3.19e-03	-1.53e-04	2.02e-04	3.06e-03	-8.88e-03	-1.26e-04	8.23e-03
## 944	2.16e-03	-1.50e-02	2.63e-05	-3.39e-03	-5.95e-03	6.12e-03	-8.14e-03
## 945	-9.01e-03	4.41e-03	9.95e-03	1.15e-02	-6.74e-03	4.06e-03	-6.02e-04
## 946	-3.92e-03	4.43e-04	1.92e-03	-2.67e-03	-2.24e-02	-4.68e-02	-1.92e-02
## 947	1.07e-02	3.69e-02	2.33e-04	1.90e-02	-4.61e-02	8.51e-02	4.11e-02
## 948	-5.72e-02	1.38e-01	3.23e-03	2.89e-02	3.78e-02	-3.51e-02	-4.68e-02
## 949	2.77e-02	1.63e-02	-4.10e-05	-9.22e-03	8.86e-03	-2.24e-02	1.29e-02
## 950	-1.20e-02	-1.47e-02	1.00e-04	-7.75e-03	7.58e-03	-1.78e-02	2.62e-02
## 951	-6.84e-03	8.29e-03	2.54e-02	2.86e-02	7.57e-03	1.13e-02	-1.04e-02
## 952	-6.99e-02	-1.80e-03	6.95e-02	7.58e-02	2.21e-02	-4.83e-03	-6.40e-03
## 953	-4.63e-03	1.19e-02	5.42e-02	-3.92e-03	3.81e-02	-3.87e-02	4.06e-02
## 954	-1.26e-02	7.07e-02	-5.45e-03	1.81e-02	2.77e-02	-4.96e-02	-1.09e-01
## 955	-4.66e-03	1.15e-04	6.74e-03	8.04e-03	2.10e-03	2.09e-03	-5.41e-04
## 956	-1.45e-03	8.25e-03	8.80e-04	2.67e-03	-5.20e-03	-3.74e-03	5.61e-03
## 957	6.09e-05	6.12e-05	1.18e-05	-2.44e-05	1.77e-04	8.07e-06	-1.56e-04
## 958	-3.44e-04	-1.15e-03	2.92e-03	3.40e-03	1.19e-03	-1.06e-03	-3.80e-04
## 959	-5.20e-03	-2.23e-03	1.38e-03	5.82e-03	1.63e-03	-7.06e-04	1.22e-02
## 960	5.35e-03	-4.51e-03	-8.24e-05	-2.62e-03	2.96e-03	4.62e-03	-1.23e-03
## 961	5.50e-03	-6.13e-03	-1.03e-02	-1.17e-03	-4.38e-03	7.45e-03	-1.87e-03
## 962	3.19e-03	-3.23e-03	-4.14e-02	4.44e-03	2.52e-02	2.59e-02	-3.86e-03
## 963	1.56e-03	-1.66e-05	4.25e-04	-8.27e-04	-1.27e-04	1.52e-03	-5.54e-04
## 964	-1.16e-03	-6.25e-04	-1.73e-04	-8.24e-04	-7.85e-04	1.23e-03	1.26e-03
## 965	-1.84e-03	-7.58e-04	2.27e-04	-9.83e-03	9.64e-03	-1.73e-02	-2.95e-03
## 966	-6.49e-03	1.13e-02	4.48e-04	-2.39e-03	-1.78e-04	-9.96e-03	-9.99e-03
## 967	7.07e-02	2.95e-02	-8.39e-03	1.29e-02	-4.00e-02	-2.46e-02	5.82e-03
## 968	6.63e-03	-5.62e-03	-8.35e-05	-2.68e-03	8.89e-03	8.02e-03	3.54e-03
## 969	-4.12e-03	1.01e-02	-1.67e-02	1.49e-03	6.03e-03	6.89e-03	1.85e-02

## 970	-1.11e-02	2.05e-02	7.35e-04	5.07e-03	2.05e-03	-5.76e-03	1.03e-02
## 971	1.12e-03	1.14e-03	9.45e-05	-2.98e-04	-1.07e-03	-2.30e-04	-4.27e-04
## 972	-1.42e-04	2.55e-03	-1.24e-04	-2.41e-03	-1.02e-02	-1.38e-03	-8.79e-03
## 973	1.13e-04	6.95e-03	1.10e-02	1.26e-02	-3.46e-03	4.41e-03	-5.26e-03
## 974	2.60e-04	-1.48e-04	1.07e-05	3.96e-04	-6.97e-05	-1.01e-03	1.14e-03
## 975	-1.23e-02	2.34e-02	-3.62e-02	-4.39e-03	-3.57e-03	2.13e-02	-2.97e-02
## 976	-6.67e-02	8.62e-02	-9.48e-03	1.76e-02	-7.53e-02	2.01e-02	-9.57e-02
## 977	1.08e-02	-1.82e-03	1.14e-03	-3.80e-03	-1.48e-02	-1.80e-02	-1.00e-02
## 978	-4.55e-03	-3.81e-03	3.24e-02	3.71e-02	-5.50e-03	-2.70e-02	2.08e-02
## 979	-1.09e-02	5.88e-06	5.18e-04	3.64e-03	5.03e-03	-6.09e-03	-4.20e-03
## 980	3.19e-03	3.83e-03	-1.22e-04	-5.97e-03	1.63e-02	-2.98e-02	7.09e-03
## 981	-2.74e-02	1.08e-02	7.92e-02	2.14e-03	-4.21e-03	-4.32e-02	1.92e-02
## 982	-3.90e-02	1.30e-02	6.63e-02	5.36e-04	-2.03e-02	4.37e-02	5.71e-02
## 983	8.63e-04	-1.26e-03	-1.68e-03	-5.33e-05	4.06e-04	1.45e-04	-1.42e-03
## 984	-2.47e-03	-1.25e-03	-2.70e-04	1.35e-03	-3.28e-03	-2.84e-03	1.03e-03
## 985	-2.48e-02	9.35e-03	-1.53e-03	-9.75e-03	1.54e-04	-4.26e-02	-4.91e-03
## 986	-2.48e-02	-4.64e-02	-5.01e-03	1.99e-02	-6.38e-02	7.85e-02	6.96e-02
## 987	8.24e-03	-2.09e-02	1.47e-04	-1.19e-02	-4.62e-02	-3.81e-02	4.57e-02
## 988	-2.86e-03	-2.01e-02	-1.62e-02	1.45e-03	7.19e-03	9.80e-03	8.12e-03
## 989	2.36e-02	-7.91e-03	-3.27e-02	-2.71e-03	-2.04e-02	-3.56e-02	-2.63e-02
## 990	6.39e-03	-5.91e-03	1.79e-03	-5.24e-03	-2.64e-02	1.07e-02	-1.39e-03
## 991	2.01e-03	3.59e-04	-8.74e-03	7.65e-04	-4.73e-03	1.75e-03	3.88e-03
## 992	-2.86e-02	1.24e-03	2.66e-03	-8.76e-03	2.05e-02	2.70e-02	-1.55e-03
## 993	-5.25e-03	9.79e-05	-1.75e-02	-2.11e-02	1.13e-02	1.36e-02	2.92e-03
## 994	-4.52e-03	1.59e-02	9.26e-04	-3.42e-03	-1.52e-02	-1.22e-02	1.70e-02
## 995	7.94e-03	-3.82e-03	-1.99e-02	4.87e-03	2.44e-02	-3.74e-02	-1.97e-02
## 996	-4.97e-02	-7.08e-03	5.26e-03	-1.33e-02	-1.78e-02	2.08e-02	5.89e-02
## 997	3.30e-04	2.39e-02	2.07e-03	-9.15e-03	3.59e-02	-7.31e-04	-2.84e-02
## 998	2.34e-02	-4.37e-02	-7.23e-03	1.80e-02	-6.26e-02	4.52e-02	4.67e-02
## 999	-5.19e-02	1.65e-02	1.19e-03	-1.08e-02	3.43e-03	1.67e-02	4.15e-02
## 1000	1.56e-03	5.38e-04	5.99e-05	1.16e-03	3.93e-03	1.23e-03	1.14e-03
## 1001	-1.32e-02	-2.01e-02	2.97e-04	-2.54e-03	1.47e-02	1.31e-03	-3.28e-03
## 1002	1.21e-02	-8.19e-03	-8.13e-05	-7.46e-03	-3.06e-02	-5.41e-03	2.66e-02
## 1003	-2.70e-03	2.92e-03	-2.62e-02	-2.46e-04	2.75e-02	-2.26e-02	-6.09e-03
## 1004	-1.61e-02	1.64e-02	1.39e-03	-2.73e-03	-2.26e-03	1.10e-02	1.58e-02
## 1005	-3.56e-03	1.05e-02	1.33e-03	-2.09e-03	3.91e-03	1.91e-03	-3.63e-03
## 1006	-4.44e-02	1.28e-02	-1.65e-03	-1.13e-02	2.23e-02	-2.00e-02	1.50e-02
## 1007	-3.00e-02	2.95e-02	6.67e-02	3.22e-03	8.54e-02	1.02e-01	-6.89e-02
## 1008	-2.16e-02	-3.67e-02	5.97e-02	2.22e-03	-4.95e-02	2.00e-02	6.95e-03
## 1009	2.50e-04	-2.08e-04	-1.72e-06	-1.39e-04	-1.67e-04	2.66e-04	-3.94e-04
## 1010	-1.22e-03	2.69e-04	-5.50e-05	1.12e-04	2.90e-04	-9.32e-04	9.38e-04
## 1011	-3.49e-02	-3.27e-03	-1.78e-03	5.66e-03	1.02e-02	-2.11e-02	-1.60e-02
## 1012	-9.68e-03	2.05e-02	6.01e-03	-5.16e-03	-2.97e-02	2.33e-02	5.43e-02
## 1013	7.09e-02	2.40e-02	6.10e-02	5.50e-03	-9.90e-04	-3.85e-02	-3.04e-02
## 1014	-1.36e-04	4.04e-03	-4.21e-04	-2.45e-03	-3.38e-04	1.38e-03	-5.73e-03
## 1015	-7.65e-03	8.82e-03	5.47e-04	-5.99e-03	2.77e-02	-9.05e-04	3.04e-02
## 1016	-1.21e-03	4.82e-03	-1.49e-02	4.01e-04	7.68e-03	1.05e-02	-1.38e-02
## 1017	6.92e-02	2.55e-02	-3.70e-04	2.37e-02	-5.31e-02	2.73e-04	-8.11e-02
## 1018	4.83e-03	1.31e-02	6.32e-04	-5.24e-03	-2.33e-02	-3.58e-03	8.58e-03
## 1019	-2.58e-02	-6.85e-03	-4.41e-04	-9.74e-03	2.44e-02	1.08e-02	2.75e-02

##	1020	-2.07e-02	7.03e-03	-2.31e-04	-6.07e-03	2.33e-02	-1.42e-02	-8.01e-03
##	1021	-4.52e-03	-2.29e-03	7.28e-04	-9.03e-04	4.96e-03	4.69e-03	6.99e-03
##	1022	1.20e-01	-6.04e-02	-2.83e-03	1.52e-02	-4.92e-02	4.28e-03	-7.71e-02
##	1023	-4.19e-03	-2.03e-03	9.84e-03	1.16e-02	-5.15e-03	2.06e-03	-1.30e-03
##	1024	2.15e-02	-3.15e-02	-1.01e-03	-4.12e-03	-1.09e-02	9.38e-03	1.42e-02
##	1025	-8.83e-03	2.50e-04	-3.03e-04	2.58e-03	-1.33e-02	-8.84e-03	-1.56e-02
##	1026	-2.26e-03	1.92e-02	1.47e-03	-5.30e-03	-2.47e-02	1.08e-02	-1.42e-02
##	1027	5.16e-05	-6.09e-04	-1.06e-05	5.19e-04	-1.40e-03	-2.83e-04	2.71e-03
##	1028	-6.44e-03	4.96e-04	-3.24e-04	-3.29e-03	1.10e-02	1.00e-02	-1.29e-02
##	1029	9.76e-03	-1.55e-02	3.10e-03	-3.51e-03	-1.85e-02	1.07e-02	1.27e-02
##	1030	-1.96e-03	7.21e-03	-3.56e-02	-4.07e-02	-6.36e-03	-1.58e-03	2.72e-03
##	1031	-1.22e-03	3.86e-03	-5.00e-04	-3.15e-03	5.17e-03	4.69e-04	7.27e-03
##	1032	3.49e-02	-8.78e-02	-7.90e-03	3.18e-02	-1.05e-01	3.64e-03	-1.42e-01
##	1033	5.26e-02	7.25e-03	-1.08e-01	-1.24e-01	-1.54e-02	-3.82e-02	-7.12e-02
##	1034	-6.51e-02	-3.51e-02	9.52e-02	-2.51e-03	1.21e-01	-8.12e-02	1.80e-02
##	1035	-5.79e-03	1.06e-02	-2.45e-03	-1.20e-02	-1.21e-02	-3.15e-02	1.82e-02
##	1036	9.61e-03	4.66e-03	4.14e-04	-2.45e-03	-1.07e-02	1.02e-03	-9.39e-03
##	1037	5.34e-02	-3.32e-02	5.44e-02	-1.11e-02	-4.36e-02	-4.67e-02	-2.58e-02
##	1038	4.18e-02	-2.21e-02	-6.93e-04	-8.99e-03	-2.95e-02	-4.31e-02	1.44e-02
##	1039	1.77e-03	-3.22e-03	-2.19e-04	-1.58e-03	-3.52e-03	8.84e-04	-7.98e-04
##	1040	9.33e-03	4.38e-02	1.66e-03	2.97e-02	5.27e-02	2.38e-03	-1.05e-01
##	1041	1.26e-02	4.66e-04	-1.52e-02	-1.83e-02	-9.91e-03	3.38e-04	7.40e-03
##	1042	2.14e-03	6.91e-03	-6.20e-04	-5.18e-03	-3.12e-03	5.35e-03	-1.78e-02
##	1043	-5.02e-03	-1.58e-02	2.29e-02	2.68e-02	-5.29e-03	4.12e-03	-2.73e-03
##	1044	3.94e-03	-2.75e-03	-7.20e-04	4.53e-04	-3.92e-03	-2.71e-03	4.35e-03
##	1045	-8.78e-05	-1.32e-03	3.91e-04	-1.10e-03	-7.24e-03	2.73e-03	6.92e-03
##	1046	-8.64e-04	6.31e-04	5.32e-05	4.63e-04	2.03e-04	-6.63e-04	1.79e-04
##	1047	2.88e-04	-3.26e-02	-1.27e-03	-7.93e-03	-3.06e-02	-2.62e-02	-1.92e-02
##	1048	-2.24e-03	-1.71e-03	-1.84e-02	6.03e-04	1.19e-02	4.41e-03	-1.60e-02
##	1049	-2.99e-03	5.46e-03	-1.63e-03	-7.12e-03	-1.88e-02	9.89e-03	-1.44e-02
##	1050	5.06e-03	2.50e-03	-5.26e-04	-2.96e-03	-8.29e-03	-4.93e-03	-8.55e-03
##	1051	5.24e-04	-2.01e-02	-2.40e-02	-6.59e-05	1.80e-04	-1.53e-03	2.82e-02
##	1052	-1.24e-02	-1.24e-02	-2.27e-02	2.64e-03	2.00e-02	2.03e-02	2.60e-02
##	1053	-6.11e-03	9.90e-05	1.08e-02	1.24e-02	-1.50e-03	1.44e-03	-1.12e-03
##	1054	-3.06e-02	3.39e-02	7.28e-04	5.19e-03	-1.44e-02	-1.55e-02	-6.10e-03
##	1055	3.33e-03	-6.59e-03	1.54e-04	4.69e-03	1.84e-02	-2.06e-03	1.96e-03
##	1056	-1.21e-02	8.42e-03	-2.17e-02	-1.16e-03	-1.03e-03	-1.18e-02	7.66e-03
##	1057	-3.83e-02	-4.19e-02	8.61e-02	-5.09e-03	1.14e-01	-6.55e-02	-9.74e-02
##	1058	1.14e-01	-2.32e-02	5.20e-02	-4.15e-03	-6.67e-02	1.86e-02	-6.08e-02
##	1059	-1.16e-02	-2.37e-02	-4.31e-04	2.41e-02	1.21e-02	6.32e-02	-6.71e-02
##	1060	3.00e-03	-4.12e-03	-8.58e-05	-2.01e-03	2.00e-03	1.04e-03	-6.51e-03
##	1061	4.78e-02	-2.79e-02	2.79e-02	-6.01e-03	-2.37e-02	-9.03e-04	-1.60e-02
##	1062	-8.21e-03	7.06e-03	1.88e-02	2.22e-02	1.57e-05	-3.09e-03	-9.24e-03
##	1063	1.48e-02	-8.81e-03	-4.26e-02	3.96e-03	-3.08e-02	3.35e-02	2.31e-02
##	1064	-1.05e-03	3.71e-03	-8.56e-04	-2.87e-03	-5.20e-03	-7.05e-03	-1.58e-03
##	1065	3.25e-04	1.94e-04	-3.60e-05	-2.49e-04	5.08e-04	4.05e-04	-1.03e-04
##	1066	1.99e-02	-3.76e-02	-6.49e-04	-5.33e-03	-1.20e-02	7.17e-03	-9.16e-03
##	1067	-2.35e-02	2.89e-03	5.98e-04	-5.16e-03	-1.30e-02	9.51e-03	2.68e-02
##	1068	1.69e-02	-2.41e-02	1.09e-03	-6.73e-03	1.42e-02	-7.58e-03	-3.76e-03
##	1069	1.29e-01	-4.18e-02	5.23e-02	-5.07e-03	-4.66e-02	-3.16e-02	1.10e-02

## 1070	-3.47e-02	4.16e-03	-3.11e-03	-1.29e-02	-3.13e-02	2.21e-02	3.27e-02
## 1071	-2.22e-02	1.18e-02	-3.79e-02	1.83e-04	1.73e-02	7.11e-03	-7.65e-03
## 1072	6.99e-03	-1.81e-02	-1.53e-03	-5.44e-03	1.31e-02	9.08e-03	-2.82e-03
## 1073	-2.55e-04	5.50e-03	-1.65e-02	2.10e-03	1.32e-02	1.09e-02	-1.71e-02
## 1074	-1.88e-02	1.43e-02	-3.32e-03	-1.04e-02	-1.43e-02	-4.75e-02	-8.58e-03
## 1075	2.10e-03	3.58e-02	4.76e-03	-6.76e-03	2.11e-02	4.08e-03	-3.02e-02
## 1076	1.18e-02	3.61e-03	-4.78e-04	-3.33e-03	4.81e-03	-1.12e-03	-2.49e-03
## 1077	-3.10e-02	1.48e-02	2.26e-02	1.69e-03	6.50e-03	3.65e-03	-6.85e-03
## 1078	1.45e-01	-4.92e-02	-4.07e-03	1.49e-02	-7.16e-02	-5.62e-02	-7.20e-02
## 1079	1.31e-03	1.23e-04	-1.18e-04	-2.09e-03	5.33e-03	-1.07e-02	-5.16e-03
## 1080	2.32e-03	-1.02e-02	-1.15e-03	-9.19e-03	-1.61e-02	6.31e-03	1.29e-02
## 1081	1.09e-03	-6.17e-05	-2.86e-04	7.71e-04	-6.34e-03	-2.46e-03	5.96e-04
## 1082	-2.80e-03	8.19e-04	-3.09e-03	-1.07e-02	-1.08e-02	-1.31e-02	-2.42e-02
## 1083	-2.80e-03	3.50e-02	9.18e-04	-1.28e-02	1.57e-02	-2.91e-02	3.87e-02
## 1084	7.86e-02	-1.51e-02	-5.83e-03	1.40e-02	-2.47e-02	-3.58e-03	7.47e-02
## 1085	6.48e-03	4.83e-03	-1.50e-04	-8.71e-03	-7.37e-03	2.10e-02	-1.55e-02
## 1086	1.05e-01	-8.76e-03	7.17e-02	-5.80e-06	-2.43e-02	-3.19e-02	6.82e-02
## 1087	9.26e-03	-3.05e-03	-5.85e-02	-4.31e-03	2.87e-02	-7.36e-02	-1.26e-02
## 1088	1.89e-02	9.19e-03	8.29e-04	-7.52e-03	-2.52e-02	7.97e-03	1.38e-02
## 1089	-1.66e-03	-1.93e-02	-9.75e-04	-4.54e-03	-1.28e-02	8.08e-03	-3.25e-03
## 1090	9.45e-04	-6.83e-04	-6.38e-05	-1.35e-03	8.78e-04	-9.12e-04	4.13e-03
## 1091	-3.59e-02	8.23e-03	-1.39e-03	-5.63e-03	1.25e-02	-1.37e-03	-4.13e-03
## 1092	-1.19e-02	-9.49e-03	-2.39e-03	-1.33e-02	7.28e-03	-4.69e-02	-2.56e-02
## 1093	-5.44e-03	3.07e-03	2.29e-04	1.05e-03	4.67e-04	4.81e-03	2.87e-03
## 1094	-2.28e-02	1.96e-02	-2.84e-02	2.51e-03	3.18e-02	2.49e-02	-2.72e-02
## 1095	-2.01e-03	-1.52e-02	1.46e-04	-8.27e-03	-3.00e-02	-6.69e-04	3.36e-02
## 1096	-2.04e-03	2.03e-02	3.10e-03	-7.19e-03	1.49e-02	-4.82e-02	1.80e-02
## 1097	1.76e-02	4.16e-03	1.12e-03	-8.40e-03	-8.31e-03	5.57e-03	-2.83e-03
## 1098	-3.37e-02	2.12e-02	-3.33e-03	-1.44e-02	2.66e-02	-3.83e-02	-6.47e-03
## 1099	4.34e-03	-2.15e-03	1.12e-02	1.26e-02	-2.95e-03	1.59e-03	-4.55e-03
## 1100	9.68e-04	-6.47e-03	-5.70e-04	-2.75e-03	2.39e-03	4.64e-03	7.30e-03
## 1101	2.85e-02	-5.23e-03	-3.23e-03	-1.19e-02	-2.92e-02	-4.31e-02	9.57e-03
## 1102	-6.01e-03	7.58e-03	8.88e-05	-3.15e-03	-1.28e-03	3.92e-03	-1.03e-02
## 1103	1.82e-02	-6.94e-03	1.80e-03	-1.06e-02	-2.18e-02	2.48e-02	-5.12e-03
## 1104	-1.56e-03	1.02e-03	1.17e-04	8.00e-04	-1.34e-03	1.26e-03	4.55e-04
## 1105	2.97e-03	5.77e-03	5.07e-04	-1.84e-03	4.89e-03	7.89e-04	-3.21e-03
## 1106	-4.94e-02	8.01e-03	2.41e-04	-7.19e-03	-2.31e-02	3.91e-03	3.46e-02
## 1107	1.23e-01	-3.64e-02	3.74e-04	2.09e-02	-4.76e-03	-5.32e-02	-4.30e-02
## 1108	1.23e-03	-2.60e-03	-1.37e-02	9.71e-04	-2.03e-03	-1.37e-03	-3.33e-03
## 1109	2.49e-03	-1.88e-02	-2.36e-03	-1.14e-02	-1.58e-02	1.99e-02	-2.59e-02
## 1110	-4.42e-03	8.67e-03	-6.22e-04	-5.09e-03	-1.42e-02	-2.80e-02	-2.51e-03
## 1111	4.02e-02	3.77e-02	-2.47e-03	1.79e-02	-7.46e-02	-3.97e-02	-7.84e-02
## 1112	-5.93e-02	4.14e-03	-1.10e-02	2.85e-02	-2.90e-02	-8.31e-02	4.20e-02
## 1113	-1.97e-02	4.62e-02	-5.93e-04	2.77e-02	2.29e-02	-6.94e-02	2.09e-02
## 1114	-9.49e-04	4.07e-04	1.47e-03	1.75e-03	-4.83e-04	6.99e-04	-6.59e-04
## 1115	-2.84e-03	-2.87e-02	-2.99e-04	-6.78e-03	-1.46e-02	-1.22e-02	-4.31e-03
## 1116	-5.08e-02	-2.33e-02	4.96e-04	-1.17e-02	1.95e-02	4.03e-03	4.14e-02
## 1117	-1.58e-02	4.02e-03	5.85e-04	4.70e-03	1.51e-04	2.04e-02	5.37e-03
## 1118	-1.38e-03	2.22e-03	-2.26e-05	-1.98e-03	-5.75e-03	5.04e-03	3.08e-03
## 1119	7.29e-03	7.94e-03	4.15e-05	-5.15e-03	1.09e-02	1.06e-02	1.67e-02

## 1120	3.66e-04	-2.82e-03	-2.07e-04	-1.78e-03	-5.49e-03	-4.05e-03	-1.43e-03
## 1121	1.11e-02	-1.07e-02	5.29e-04	-8.17e-03	1.32e-02	-1.60e-02	1.27e-02
## 1122	-9.52e-03	1.23e-02	1.85e-03	-3.79e-03	-3.16e-03	1.31e-02	9.03e-03
## 1123	-9.23e-03	2.33e-02	4.12e-03	-7.79e-03	-4.57e-02	2.36e-02	2.49e-02
## 1124	-1.18e-02	1.78e-03	4.37e-03	-1.21e-02	6.24e-03	-3.56e-03	5.74e-02
## 1125	-7.70e-03	2.39e-03	4.33e-05	3.86e-03	1.41e-02	-3.40e-03	8.92e-03
## 1126	7.80e-03	2.42e-03	-9.72e-03	-8.33e-04	-2.69e-03	5.10e-03	9.53e-03
## 1127	3.24e-03	6.58e-03	1.68e-03	-1.40e-03	1.74e-02	4.46e-04	-2.54e-03
## 1128	5.29e-04	3.18e-03	1.40e-04	-7.64e-04	-6.61e-04	-2.69e-04	-2.61e-03
## 1129	4.66e-03	2.25e-03	-3.75e-02	8.23e-03	-3.85e-02	1.68e-02	5.33e-02
## 1130	7.41e-04	6.06e-04	-5.63e-05	-2.28e-04	-2.91e-04	-1.74e-05	-7.55e-04
## 1131	2.36e-03	8.37e-04	-1.01e-04	-2.99e-03	1.28e-03	-1.22e-02	3.69e-03
## 1132	9.99e-04	1.08e-03	-2.59e-02	-1.93e-03	4.88e-03	1.08e-04	-2.45e-02
## 1133	5.75e-03	-8.99e-03	-4.67e-04	-3.19e-03	1.34e-02	-4.04e-03	-9.74e-03
## 1134	-2.85e-04	3.00e-04	1.76e-05	9.50e-05	7.49e-05	5.39e-04	2.76e-04
## 1135	2.11e-03	-8.39e-03	-1.37e-03	-5.25e-03	-1.29e-02	2.32e-03	-3.34e-03
## 1136	-1.06e-03	-8.12e-05	2.06e-04	-3.00e-04	4.68e-04	1.28e-03	-2.41e-03
## 1137	5.82e-03	-1.22e-02	-3.02e-03	1.63e-02	-5.45e-02	8.20e-02	8.15e-03
## 1138	-8.32e-02	5.54e-02	9.47e-02	1.09e-01	3.43e-02	-6.87e-02	2.19e-02
## 1139	2.18e-02	5.16e-03	-3.01e-02	-1.03e-03	-3.50e-02	-2.80e-02	1.96e-02
## 1140	7.11e-05	1.62e-04	5.05e-05	-1.82e-04	3.13e-04	2.52e-04	3.50e-04
## 1141	2.77e-04	-4.61e-04	-1.06e-04	-1.41e-03	-3.66e-03	5.63e-04	2.24e-03
## 1142	-5.36e-02	9.78e-03	7.79e-04	-8.06e-03	3.15e-02	6.01e-03	1.47e-02
## 1143	-3.07e-02	-6.86e-02	-1.78e-03	-1.81e-02	-3.11e-02	1.72e-02	2.01e-03
## 1144	-2.76e-02	-2.71e-02	4.42e-02	5.12e-02	1.84e-02	-3.47e-02	2.96e-02
## 1145	-1.65e-02	1.38e-02	-2.74e-02	1.92e-03	1.16e-03	1.73e-02	-2.49e-02
## 1146	7.87e-03	-2.38e-03	2.57e-03	-6.95e-03	1.47e-02	-5.37e-03	-3.02e-03
## 1147	2.65e-03	1.21e-03	-8.34e-03	-8.73e-04	6.25e-03	-5.22e-04	-1.05e-03
## 1148	2.25e-03	-2.45e-02	-5.03e-04	-4.19e-03	2.78e-03	-2.38e-02	-4.36e-03
## 1149	1.39e-03	-5.00e-03	-3.91e-04	-4.39e-03	-1.52e-02	-4.93e-04	7.24e-03
## 1150	-8.26e-03	5.60e-03	-1.31e-03	-4.55e-03	-1.03e-02	-1.20e-02	-9.74e-03
## 1151	1.75e-03	-1.47e-03	-2.78e-04	6.80e-04	-2.06e-04	2.76e-03	-1.97e-03
## 1152	-5.16e-02	2.02e-02	-8.93e-03	-2.44e-02	1.56e-02	-6.81e-02	2.07e-02
## 1153	5.14e-03	2.15e-02	4.25e-04	-6.37e-03	9.76e-03	7.28e-03	-6.29e-03
## 1154	1.24e-02	-5.73e-02	4.48e-02	-3.52e-03	-1.94e-02	-2.88e-02	-3.01e-02
## 1155	-4.25e-03	-3.84e-03	-9.00e-05	9.80e-04	3.39e-03	1.01e-02	6.22e-03
## 1156	-7.19e-04	1.26e-03	4.02e-04	1.86e-03	-4.77e-03	-2.63e-03	6.99e-04
## 1157	-2.25e-03	-3.63e-04	-7.44e-04	-5.48e-03	-2.75e-03	-6.43e-03	1.59e-02
## 1158	1.44e-02	-6.71e-03	-2.56e-02	-2.94e-02	-1.57e-02	-3.15e-03	2.30e-03
## 1159	2.95e-03	-3.75e-04	-2.62e-04	-2.62e-03	3.23e-03	-7.42e-03	-2.87e-03
## 1160	-2.51e-02	-1.80e-02	-3.53e-02	-5.73e-04	1.13e-03	1.92e-02	3.72e-02
## 1161	-2.02e-02	1.98e-02	3.38e-03	9.41e-03	1.57e-02	-1.02e-02	1.37e-02
## 1162	1.53e-02	-1.95e-03	-6.03e-05	-5.87e-03	1.36e-02	1.38e-02	-1.32e-02
## 1163	4.06e-02	-4.52e-02	5.26e-03	2.84e-02	-1.70e-02	4.96e-03	7.53e-02
## 1164	-2.16e-02	-7.95e-03	2.94e-06	-6.40e-03	-2.81e-02	-2.63e-03	9.86e-03
## 1165	7.04e-03	1.99e-02	3.99e-03	-9.58e-03	2.56e-02	-1.81e-02	-6.05e-03
## 1166	-1.45e-02	-1.75e-02	-2.75e-02	4.71e-03	1.33e-02	2.49e-02	4.23e-02
## 1167	3.13e-03	5.61e-04	-3.06e-03	6.84e-05	2.80e-03	1.60e-03	-1.13e-03
## 1168	5.56e-02	6.27e-03	5.17e-03	2.90e-02	-4.33e-03	2.88e-02	-7.58e-02
## 1169	-6.78e-02	4.62e-02	-4.90e-02	5.49e-03	1.94e-02	3.31e-02	7.35e-02

## 1170	2.18e-03	5.19e-03	5.37e-04	-1.42e-03	5.14e-03	8.51e-04	2.57e-03
## 1171	-8.63e-03	1.63e-02	-2.38e-02	1.43e-03	1.02e-02	1.57e-02	-2.48e-02
## 1172	5.52e-02	2.10e-02	-5.25e-03	9.57e-03	5.01e-02	-1.25e-02	-6.14e-02
## 1173	-2.85e-02	1.18e-02	2.34e-05	-9.41e-03	1.20e-02	-5.06e-03	-4.43e-03
## 1174	-8.69e-03	-7.28e-05	8.25e-05	-3.68e-03	1.66e-03	5.76e-03	7.62e-03
## 1175	-7.83e-03	-8.78e-03	1.01e-02	5.24e-04	-2.16e-03	-6.84e-03	9.03e-03
## 1176	5.53e-03	-3.00e-03	-3.89e-04	-2.03e-03	3.89e-03	-1.19e-03	-5.60e-03
## 1177	-2.76e-03	4.37e-03	6.43e-04	-1.61e-03	1.17e-02	-1.38e-02	1.19e-02
## 1178	-4.49e-04	1.03e-02	1.57e-03	3.70e-03	5.62e-05	8.08e-03	7.71e-03
## 1179	-9.84e-03	2.30e-02	-1.38e-04	-8.57e-03	-1.63e-02	1.34e-02	-3.76e-03
## 1180	-7.36e-04	-7.43e-04	3.34e-04	1.87e-03	2.58e-03	-2.29e-03	3.41e-03
## 1181	-3.38e-02	1.70e-02	4.36e-03	-5.53e-03	2.63e-02	5.36e-03	3.55e-02
## 1182	2.16e-04	1.34e-03	2.21e-04	-9.36e-04	2.92e-03	1.54e-03	-4.51e-04
## 1183	1.09e-03	6.57e-04	-2.54e-03	-2.96e-03	2.56e-04	-1.12e-03	1.13e-03
## 1184	-8.98e-03	-4.10e-03	4.61e-04	3.05e-03	2.78e-03	-5.66e-03	9.29e-03
## 1185	-1.03e-02	-6.10e-03	-1.67e-04	1.78e-03	-6.35e-03	1.11e-02	-2.67e-03
## 1186	-8.93e-03	5.75e-03	1.51e-03	3.26e-03	6.42e-03	4.24e-03	1.99e-03
## 1187	-1.11e-01	-1.75e-02	7.62e-02	8.09e-03	1.55e-02	1.34e-02	5.62e-02
## 1188	-2.20e-02	-1.01e-02	1.71e-02	-1.07e-03	1.03e-02	-1.47e-02	1.62e-02
## 1189	-5.53e-02	2.77e-02	1.64e-04	-1.80e-02	-2.14e-02	1.93e-02	5.45e-02
## 1190	-7.87e-03	-1.00e-05	7.02e-04	3.94e-03	-7.92e-03	-6.20e-03	9.09e-03
## 1191	9.42e-04	-6.16e-04	1.07e-04	6.46e-04	4.50e-04	-1.04e-03	1.40e-03
## 1192	-3.24e-03	6.39e-03	8.66e-04	-3.04e-03	-7.61e-03	4.33e-03	1.31e-02
## 1193	-1.71e-03	-1.48e-02	1.38e-03	-8.50e-03	2.55e-02	-1.94e-02	-2.66e-02
## 1194	2.12e-03	-3.21e-02	-3.85e-02	-3.87e-03	3.71e-02	2.15e-02	-3.13e-02
## 1195	1.96e-03	-9.80e-03	-6.04e-04	2.12e-03	6.83e-03	-6.46e-03	-5.86e-03
## 1196	-1.26e-05	-1.75e-05	1.90e-06	-1.15e-05	1.94e-06	3.55e-05	-6.38e-06
## 1197	2.72e-02	2.49e-02	3.14e-03	-8.23e-03	-2.36e-02	-3.70e-02	-2.59e-02
## 1198	-3.24e-02	2.86e-02	1.20e-03	-7.65e-03	1.00e-03	-3.33e-03	-2.55e-02
## 1199	4.16e-03	2.35e-03	2.60e-02	2.90e-02	9.52e-03	-6.88e-03	-1.26e-03
## 1200	-2.34e-03	2.94e-03	-2.17e-04	-5.94e-03	-1.88e-02	-2.92e-02	2.14e-02
## 1201	1.10e-02	-1.69e-02	-6.86e-05	-6.96e-03	1.13e-02	1.32e-02	-9.67e-04
## 1202	2.74e-02	-5.40e-02	-4.38e-03	1.51e-02	6.28e-02	-7.96e-04	4.91e-02
## 1203	2.01e-03	-6.48e-04	-9.39e-05	-7.92e-04	-3.38e-03	1.43e-03	-2.94e-03
## 1204	-1.17e-02	1.18e-02	3.87e-04	2.73e-03	7.55e-03	9.16e-03	-3.85e-03
## 1205	-4.03e-02	2.78e-02	7.00e-02	-1.34e-02	-2.15e-02	-2.06e-02	6.73e-02
## 1206	-3.14e-02	3.28e-02	3.17e-04	2.64e-02	8.25e-02	-5.25e-02	7.59e-02
## 1207	-1.16e-04	8.80e-04	2.08e-03	2.35e-03	9.09e-05	2.81e-04	-1.04e-03
## 1208	1.13e-02	-5.18e-02	-3.40e-03	-1.00e-02	-2.73e-02	-2.80e-02	2.56e-02
## 1209	-2.16e-03	-3.23e-03	1.24e-04	3.05e-03	5.51e-03	-3.26e-03	-3.98e-03
## 1210	-7.09e-03	8.32e-03	8.80e-04	2.39e-03	-4.34e-03	-3.56e-03	1.22e-03
## 1211	-9.31e-04	-1.34e-03	-1.52e-04	5.71e-04	-2.54e-03	2.32e-03	-8.43e-04
## 1212	-1.83e-02	-1.45e-02	-2.32e-02	-3.56e-03	-1.74e-02	1.02e-02	-3.54e-03
## 1213	-1.49e-02	1.42e-03	-2.85e-04	-7.21e-03	3.52e-03	-1.78e-02	1.01e-02
## 1214	-7.16e-02	-8.16e-02	1.42e-04	3.13e-02	-7.05e-02	-2.49e-02	1.80e-02
## 1215	6.41e-03	-2.58e-03	4.92e-05	-9.46e-04	-3.35e-04	2.51e-03	-3.47e-04
## 1216	-1.11e-02	-2.65e-02	-5.09e-02	3.29e-03	5.97e-02	3.05e-02	6.74e-02
## 1217	1.04e-02	-7.04e-03	6.96e-06	-2.55e-03	-5.03e-03	5.34e-03	-6.21e-03
## 1218	5.32e-05	1.88e-03	1.37e-04	-4.03e-04	1.04e-03	-1.11e-04	-6.18e-04
## 1219	1.59e-03	-5.74e-03	-3.94e-04	-2.89e-03	-2.48e-03	1.37e-03	-5.01e-03

##	1220	-2.40e-04	3.62e-03	1.02e-04	-1.21e-03	-2.00e-03	-1.69e-04	-4.04e-03
##	1221	-5.13e-03	6.36e-03	7.17e-04	-3.75e-03	5.23e-03	7.91e-03	-2.15e-03
##	1222	-2.49e-04	1.80e-04	1.09e-03	1.27e-03	-4.07e-04	5.55e-04	-1.09e-04
##	1223	8.20e-02	-4.40e-02	4.45e-03	2.91e-02	-7.30e-02	9.37e-02	6.92e-02
##	1224	6.11e-02	6.61e-03	8.35e-02	8.88e-03	5.96e-02	-7.93e-03	2.28e-02
##	1225	-5.69e-03	9.58e-03	-1.61e-03	-8.31e-03	1.43e-02	-1.65e-02	-1.90e-02
##	1226	-5.42e-03	-1.42e-02	-1.74e-03	-1.01e-02	-1.81e-02	-5.15e-02	-2.25e-02
##	1227	-3.71e-02	1.62e-02	-2.87e-02	3.41e-03	1.36e-02	-2.71e-03	3.26e-02
##	1228	8.72e-04	1.32e-03	3.26e-04	-1.60e-03	6.01e-04	3.85e-03	3.04e-03
##	1229	-1.27e-02	-5.29e-03	2.16e-02	2.58e-02	5.52e-03	6.38e-03	-2.66e-03
##	1230	-1.10e-02	2.86e-02	6.69e-03	-2.77e-03	3.58e-02	8.20e-03	1.94e-02
##	1231	-4.48e-03	2.59e-02	-8.44e-04	-1.01e-02	1.40e-02	-5.48e-02	1.18e-02
##	1232	-1.59e-03	-3.02e-03	2.04e-04	-1.82e-03	4.51e-04	-2.68e-03	-9.33e-04
##	1233	-1.81e-03	-4.83e-03	6.43e-05	1.71e-03	5.65e-03	1.03e-02	5.67e-03
##	1234	-1.17e-02	7.12e-03	7.69e-04	-3.48e-03	-6.42e-04	-8.54e-03	4.70e-03
##	1235	-6.58e-03	-9.92e-03	1.20e-02	1.46e-02	3.69e-03	5.04e-03	-1.62e-03
##	1236	4.09e-03	-7.17e-03	-1.95e-04	-2.64e-03	-5.93e-03	5.20e-03	-4.95e-04
##	1237	2.66e-02	-5.05e-02	-8.59e-04	1.98e-02	7.57e-02	2.02e-02	-3.89e-02
##	1238	1.12e-01	-2.61e-02	1.90e-03	2.24e-02	3.07e-02	-4.09e-02	-7.93e-02
##	1239	-6.92e-02	2.81e-02	1.89e-03	-8.79e-03	4.24e-02	1.50e-02	-9.32e-03
##	1240	-2.28e-03	1.08e-02	-2.73e-02	-2.26e-03	3.08e-02	-3.50e-02	-2.52e-02
##	1241	1.37e-04	-2.50e-04	1.17e-03	1.35e-03	8.65e-05	5.19e-04	-4.74e-04
##	1242	-2.66e-02	1.19e-02	-2.17e-03	-7.57e-03	1.92e-02	-1.85e-02	-2.21e-02
##	1243	-5.02e-03	3.32e-03	-3.84e-04	-7.55e-03	3.66e-03	3.68e-03	9.65e-03
##	1244	6.39e-03	-9.85e-03	-1.28e-03	-3.90e-03	8.76e-03	3.94e-03	-2.05e-03
##	1245	-1.32e-02	8.72e-03	-2.78e-02	1.24e-03	-2.75e-02	1.41e-02	-2.51e-02
##	1246	-1.30e-02	2.27e-02	-2.81e-02	4.52e-04	-4.40e-03	-1.78e-03	3.22e-02
##	1247	7.66e-02	-2.85e-02	9.05e-02	8.64e-03	-3.59e-02	-5.72e-03	2.08e-02
##	1248	-8.65e-04	1.79e-03	-2.63e-04	-3.61e-03	-4.52e-03	3.96e-03	1.38e-02
##	1249	-1.38e-02	1.01e-02	8.99e-04	-5.65e-03	-1.02e-02	-2.40e-04	-4.91e-03
##	1250	8.86e-02	8.64e-03	3.66e-03	2.44e-02	-2.79e-02	6.11e-03	-3.17e-02
##	1251	1.35e-02	2.83e-02	-2.74e-02	6.20e-03	2.07e-02	2.37e-02	-2.63e-02
##	1252	-2.57e-03	6.98e-03	-1.01e-03	-3.86e-03	-2.75e-03	-3.87e-03	-1.52e-03
##	1253	1.54e-02	1.57e-03	2.68e-03	-2.24e-03	2.05e-02	1.13e-02	-1.49e-02
##	1254	-8.34e-04	3.79e-04	1.51e-03	1.76e-03	-7.00e-04	5.76e-04	-6.92e-04
##	1255	-3.49e-03	3.43e-03	9.82e-05	7.84e-04	2.18e-03	5.15e-04	1.63e-03
##	1256	2.60e-02	-2.86e-02	-3.31e-03	1.12e-02	-4.83e-02	2.10e-02	-5.40e-02
##	1257	-1.85e-02	-7.52e-03	-2.56e-02	1.32e-03	8.83e-03	1.70e-02	-8.14e-03
##	1258	1.35e-02	-7.12e-02	-1.45e-03	2.62e-02	4.50e-02	5.05e-02	-1.04e-01
##	1259	-6.71e-03	5.18e-04	-2.16e-03	-8.34e-03	7.61e-03	8.78e-03	-1.84e-02
##	1260	5.62e-04	1.05e-03	8.34e-05	-3.71e-04	1.25e-03	-8.18e-04	-4.43e-04
##	1261	-1.28e-02	4.96e-03	1.82e-02	2.12e-02	-2.54e-03	3.63e-03	4.63e-03
##	1262	-2.23e-02	2.39e-02	1.65e-03	-1.39e-02	-1.92e-03	-3.46e-02	2.54e-02
##	1263	-2.23e-03	6.07e-02	5.85e-02	-3.58e-04	3.08e-03	4.29e-02	5.57e-03
##	1264	3.60e-03	-1.03e-02	-1.44e-03	-4.96e-03	-3.96e-04	-2.75e-03	4.71e-03
##	1265	-2.93e-03	1.71e-03	2.20e-04	-2.41e-04	2.21e-03	1.91e-03	-7.03e-04
##	1266	7.39e-03	-6.84e-03	-2.42e-02	-2.80e-02	-3.10e-03	-9.14e-03	1.19e-02
##	1267	7.28e-03	-7.88e-03	-9.56e-04	-3.28e-03	3.79e-03	2.62e-04	-2.03e-03
##	1268	-2.18e-04	-2.87e-03	-9.04e-03	-1.03e-02	3.92e-03	-5.41e-04	3.39e-03
##	1269	-2.06e-02	2.58e-03	3.88e-02	4.57e-02	8.84e-03	1.96e-02	2.41e-02



## 1270	1.82e-03	-5.29e-03	2.15e-04	-1.44e-03	5.32e-03	3.11e-03	2.21e-03
## 1271	-2.19e-02	-6.21e-03	-1.80e-03	-1.02e-02	9.03e-03	9.87e-03	-1.87e-02
## 1272	9.56e-02	-5.35e-02	-3.77e-03	1.97e-02	-4.80e-02	-5.39e-03	-3.56e-02
## 1273	-1.51e-03	-3.21e-03	-2.07e-04	-1.27e-03	-2.70e-03	5.02e-04	-3.28e-03
## 1274	2.44e-03	-5.69e-02	-4.18e-03	1.37e-02	5.71e-02	-1.05e-02	8.63e-03
## 1275	-5.53e-03	1.72e-02	-9.79e-05	-8.51e-03	2.49e-02	-3.96e-02	2.39e-02
## 1276	-9.54e-04	-4.55e-03	5.41e-05	-8.02e-04	-9.21e-04	1.63e-03	4.75e-03
## 1277	-8.96e-03	-1.23e-02	-1.17e-03	-7.52e-03	5.48e-03	8.18e-04	1.04e-02
## 1278	2.64e-03	2.52e-03	1.15e-05	-1.58e-03	1.60e-03	3.35e-03	-4.92e-04
## 1279	1.18e-02	9.57e-03	1.21e-03	-5.13e-03	-2.31e-02	1.23e-03	-1.64e-02
## 1280	-8.01e-03	8.29e-02	6.89e-02	-1.25e-03	-5.19e-02	-5.54e-02	1.01e-02
## 1281	-8.75e-04	6.91e-03	1.25e-05	-2.93e-03	-6.49e-03	1.45e-03	-2.13e-03
## 1282	-6.35e-02	1.65e-03	-2.07e-03	2.60e-02	-5.77e-02	1.06e-01	1.05e-02
## 1283	1.65e-03	2.17e-03	1.71e-04	-5.31e-04	2.80e-06	4.33e-04	-2.51e-03
## 1284	-1.51e-03	-1.49e-03	-1.53e-04	8.16e-04	2.15e-03	-2.21e-03	6.33e-04
## 1285	1.02e-02	-6.76e-03	-1.14e-03	-4.08e-03	-9.94e-03	-2.62e-03	-2.80e-03
## 1286	-8.06e-03	-4.62e-02	5.09e-02	6.06e-02	-6.04e-03	-4.62e-02	1.25e-02
## 1287	-2.16e-04	-7.80e-03	7.50e-06	-2.64e-03	5.72e-03	9.06e-03	-4.11e-03
## 1288	7.59e-03	-4.52e-03	1.96e-04	-2.82e-03	-6.61e-03	-3.30e-03	5.13e-03
## 1289	6.79e-03	-1.29e-02	-3.58e-02	-4.12e-02	9.58e-03	-1.43e-02	-8.98e-03
## 1290	3.58e-03	1.66e-04	-9.59e-03	-1.11e-02	4.48e-03	-3.76e-03	-6.12e-03
## 1291	8.38e-04	-3.63e-02	9.08e-02	-7.10e-03	-9.62e-02	-1.16e-02	9.91e-02
## 1292	6.55e-02	2.41e-02	8.26e-04	2.81e-02	-5.93e-02	2.21e-03	8.26e-02
## 1293	1.59e-02	-5.38e-03	-1.35e-02	-2.35e-03	1.41e-03	-1.08e-02	-3.20e-03
## 1294	-3.76e-02	-2.54e-02	4.67e-02	5.36e-02	1.95e-02	2.90e-04	2.86e-02
## 1295	-1.70e-02	-8.31e-03	1.86e-03	-3.79e-03	1.60e-02	8.45e-03	8.99e-03
## 1296	1.25e-02	8.40e-03	1.09e-03	-6.17e-03	6.81e-04	9.03e-03	5.62e-04
## 1297	-5.61e-03	7.21e-03	-1.59e-04	-6.20e-03	-1.12e-02	-1.86e-03	2.35e-02
## 1298	1.63e-02	-5.91e-02	-7.59e-03	1.49e-02	1.71e-02	7.05e-02	5.80e-02
## 1299	-1.61e-01	1.07e-01	8.59e-03	3.63e-02	-1.15e-01	1.32e-01	1.09e-01
## 1300	-6.73e-03	2.16e-03	8.60e-04	4.51e-03	6.82e-03	-7.53e-03	1.93e-03
## 1301	-7.55e-03	-1.15e-03	2.02e-05	1.81e-03	-6.16e-04	-1.21e-03	-2.28e-03
## 1302	9.81e-03	-1.83e-03	-2.53e-02	-2.91e-02	-1.31e-02	-1.01e-02	-5.89e-03
## 1303	1.62e-03	-8.08e-03	-1.99e-03	-9.89e-03	2.73e-02	-3.30e-02	1.03e-02
## 1304	1.09e-03	7.25e-03	8.57e-04	-9.95e-03	-1.16e-02	1.41e-02	-9.42e-04
## 1305	-8.45e-03	1.02e-03	-5.44e-04	-6.86e-03	3.55e-04	-4.13e-03	9.36e-03
## 1306	-8.52e-03	1.73e-02	2.26e-04	3.22e-03	-8.07e-03	-1.77e-03	1.11e-02
## 1307	-1.45e-02	1.56e-02	-3.06e-02	1.74e-03	-1.93e-02	7.44e-03	3.44e-02
## 1308	7.19e-03	4.39e-03	-8.44e-04	-4.35e-03	-1.01e-02	1.07e-02	-3.80e-03
## 1309	-2.34e-02	3.69e-02	2.42e-03	-8.77e-03	9.78e-03	2.92e-02	1.67e-02
## 1310	-5.07e-03	1.02e-02	2.90e-04	-6.45e-03	6.11e-03	-2.09e-03	-2.91e-03
## 1311	2.49e-02	-3.19e-02	-2.96e-02	5.02e-03	-2.11e-02	-1.62e-02	3.74e-02
## 1312	-7.33e-02	3.88e-02	6.32e-02	7.19e-02	-3.90e-02	-1.33e-02	1.62e-02
## 1313	-6.10e-02	-2.00e-03	-1.68e-03	2.03e-02	-8.22e-02	7.61e-02	9.40e-02
## 1314	5.48e-02	-1.38e-02	2.32e-04	1.78e-02	-3.74e-02	1.59e-02	-6.25e-02
## 1315	-1.48e-02	1.54e-02	-2.91e-02	-3.38e-02	-7.00e-03	-1.26e-02	3.05e-03
## 1316	1.07e-02	2.23e-02	2.73e-03	-3.57e-03	2.13e-02	1.88e-02	-2.24e-02
## 1317	1.26e-02	-9.58e-03	-9.41e-03	-9.31e-04	-9.63e-03	6.56e-03	9.52e-03
## 1318	-1.54e-02	2.53e-02	-3.98e-02	2.93e-03	-3.84e-02	1.61e-02	-3.42e-02
## 1319	4.12e-04	1.57e-03	-2.32e-03	3.80e-05	1.00e-03	-2.63e-03	-2.19e-03

## 1320	1.99e-02	-1.63e-03	-1.82e-02	-9.24e-04	-1.84e-02	-2.32e-03	-1.53e-02
## 1321	-2.55e-03	-1.87e-03	7.16e-03	8.35e-03	3.57e-03	8.52e-06	-1.01e-03
## 1322	-1.93e-03	-3.85e-02	8.33e-04	-7.81e-03	2.61e-02	-1.82e-03	1.38e-02
## 1323	-1.68e-02	1.78e-02	2.45e-03	8.67e-03	-5.92e-03	-1.33e-02	1.63e-02
## 1324	2.31e-03	-8.54e-04	-4.36e-03	-4.93e-03	-2.51e-03	-1.72e-03	4.15e-04
## 1325	3.30e-03	1.53e-02	-3.21e-03	-1.00e-02	1.30e-03	-3.45e-02	-1.91e-02
## 1326	6.25e-03	-1.09e-02	1.51e-04	-3.61e-03	-9.15e-03	-7.62e-04	-1.25e-02
## 1327	6.80e-02	-5.20e-03	-3.26e-03	1.02e-02	-3.63e-02	-2.87e-02	8.28e-03
## 1328	3.31e-03	6.50e-04	1.25e-04	4.88e-03	1.42e-02	-1.03e-02	-2.33e-02
## 1329	-2.08e-03	1.50e-02	-1.67e-03	-8.93e-03	1.83e-03	-2.04e-02	8.85e-03
## 1330	-1.09e-02	1.11e-03	-2.68e-04	-5.53e-03	1.68e-02	4.78e-03	-1.95e-02
## 1331	1.81e-04	1.12e-03	6.12e-04	2.50e-03	4.75e-04	-2.09e-03	-8.25e-03
## 1332	-5.59e-04	-2.34e-04	6.89e-05	4.65e-04	1.33e-03	1.88e-04	1.38e-03
## 1333	-2.32e-02	6.83e-04	4.68e-02	4.83e-03	-2.66e-02	5.70e-02	4.13e-02
## 1334	-1.55e-01	8.76e-02	1.09e-02	4.44e-02	9.26e-02	-8.12e-03	2.35e-02
## 1335	-2.47e-02	3.07e-02	-4.13e-02	-1.01e-05	-2.19e-02	-2.09e-02	-3.80e-02
## 1336	-1.21e-03	8.15e-04	2.02e-04	8.74e-04	2.84e-05	1.57e-03	1.37e-03
## 1337	-5.96e-03	4.66e-03	-2.42e-05	1.24e-03	7.89e-05	-2.95e-03	-1.71e-03
## 1338	4.22e-03	3.32e-03	-4.03e-04	-5.35e-03	-1.23e-02	1.05e-02	7.68e-03
## 1339	1.03e-02	9.08e-03	-7.15e-04	2.72e-02	2.46e-02	-1.94e-03	-3.45e-02
## 1340	-2.31e-02	-4.87e-02	-2.98e-03	1.70e-02	-4.32e-02	-1.47e-02	5.11e-02
## 1341	-4.06e-03	-4.48e-03	5.02e-04	-7.77e-03	-2.22e-02	-6.64e-04	1.67e-02
## 1342	-9.04e-04	4.60e-03	-2.27e-04	-3.31e-03	8.80e-03	-8.17e-03	4.23e-03
## 1343	9.27e-03	4.44e-03	1.03e-03	-4.52e-03	-2.21e-02	9.38e-03	-1.08e-03
## 1344	-2.05e-02	2.50e-02	2.10e-03	-5.76e-03	8.63e-03	3.63e-03	-2.28e-02
## 1345	1.64e-02	1.75e-02	1.91e-03	-4.70e-03	3.28e-03	9.20e-03	-1.99e-02
## 1346	-2.00e-02	-1.56e-02	7.19e-04	-1.15e-02	3.94e-02	-2.39e-02	-2.84e-02
## 1347	1.93e-03	-1.04e-02	-8.37e-04	-3.65e-03	4.54e-03	-1.30e-02	3.63e-03
## 1348	1.55e-02	-4.69e-03	-2.71e-02	-3.49e-03	-2.29e-02	1.97e-02	8.00e-03
## 1349	-2.79e-04	6.52e-04	-1.39e-04	-9.55e-04	-1.97e-03	1.67e-03	2.82e-03
## 1350	-4.88e-02	2.28e-02	3.72e-03	-1.10e-02	3.11e-02	4.01e-02	2.49e-02
## 1351	-6.15e-03	9.36e-03	1.05e-03	-2.54e-03	7.21e-03	8.40e-03	1.30e-02
## 1352	-4.16e-03	6.52e-03	1.42e-02	2.73e-04	-1.86e-02	1.73e-02	1.16e-02
## 1353	3.13e-03	-6.12e-03	6.95e-04	-1.90e-03	1.17e-02	8.13e-03	4.38e-03
## 1354	2.22e-02	6.83e-03	-1.11e-01	-1.30e-01	2.04e-02	2.91e-02	5.10e-02
## 1355	-1.32e-01	2.38e-01	6.68e-03	3.52e-02	6.70e-02	1.21e-01	-9.72e-02
## 1356	-3.97e-02	8.75e-03	-7.43e-04	-8.07e-03	2.34e-02	-1.73e-02	-6.72e-03
## 1357	1.36e-03	5.78e-05	-4.44e-06	-9.64e-04	3.01e-03	7.15e-04	-7.67e-04
## 1358	-8.70e-04	2.37e-04	-1.22e-06	3.52e-04	1.94e-03	-2.51e-04	3.48e-04
## 1359	7.96e-03	8.17e-03	3.26e-04	-6.65e-03	-8.65e-03	-2.02e-03	-2.28e-03
## 1360	-1.42e-02	6.89e-03	1.62e-03	-5.15e-03	6.36e-03	1.42e-02	-2.28e-02
## 1361	-1.01e-02	1.31e-03	1.97e-04	-4.04e-03	9.58e-03	5.25e-03	1.51e-02
## 1362	3.03e-03	4.94e-03	-4.83e-03	7.13e-05	-2.13e-03	1.68e-03	-1.29e-03
## 1363	-1.94e-03	-1.92e-02	-2.10e-02	3.71e-04	-2.20e-02	1.43e-02	1.16e-02
## 1364	-1.58e-02	1.50e-03	4.70e-04	-6.10e-03	1.76e-02	-1.86e-03	8.00e-03
## 1365	-1.88e-02	1.31e-02	-2.77e-02	1.57e-03	2.08e-03	2.11e-02	-2.59e-03
## 1366	-8.00e-03	4.95e-03	6.55e-02	9.11e-04	1.98e-03	9.02e-02	1.40e-02
## 1367	-2.71e-02	-6.27e-03	3.90e-02	4.52e-02	-1.96e-02	-2.29e-02	2.65e-02
## 1368	-2.73e-02	1.32e-02	1.08e-03	-4.48e-03	-1.96e-02	1.22e-02	1.02e-02
## 1369	1.23e-02	2.07e-02	-3.29e-02	-4.38e-04	4.53e-03	-3.60e-02	-6.68e-03

## 1370	-6.49e-03	-3.03e-02	-4.43e-03	1.47e-02	8.91e-02	3.70e-02	5.58e-02
## 1371	-6.72e-03	9.38e-03	-2.77e-02	-3.27e-02	9.22e-03	5.48e-03	2.67e-03
## 1372	1.26e-02	-2.48e-02	-1.55e-03	-3.76e-03	-1.25e-02	-1.80e-03	-8.61e-03
## 1373	2.39e-02	-7.84e-03	-1.45e-03	-9.42e-03	-6.75e-03	3.57e-03	2.28e-02
## 1374	6.26e-03	1.21e-02	-2.52e-02	-2.13e-03	-2.70e-02	7.03e-03	-1.75e-02
## 1375	3.20e-03	-3.23e-03	1.45e-03	-6.87e-04	7.86e-03	-1.50e-02	-1.16e-02
## 1376	2.77e-02	-1.44e-02	4.39e-02	-8.18e-03	-5.25e-02	-2.05e-02	-6.71e-02
## 1377	-3.34e-03	6.92e-04	2.18e-04	1.25e-03	2.14e-03	3.76e-04	-1.37e-03
## 1378	-2.76e-04	-1.32e-03	3.05e-03	-3.42e-04	1.10e-03	-1.95e-03	-1.44e-03
## 1379	4.92e-03	1.73e-03	1.85e-03	-7.61e-03	2.17e-02	-5.54e-03	1.51e-02
## 1380	5.61e-02	-7.67e-03	6.38e-02	1.42e-03	6.69e-02	7.52e-02	-6.89e-02
## 1381	-1.81e-02	-5.52e-03	-1.06e-03	-7.12e-03	6.36e-03	-1.74e-02	9.17e-03
## 1382	-2.51e-02	6.64e-03	3.48e-02	3.98e-02	-1.08e-02	-1.17e-02	-3.75e-03
## 1383	-2.15e-02	4.61e-04	5.01e-02	5.71e-02	-9.32e-03	1.39e-02	4.85e-04
## 1384	2.24e-04	-7.21e-04	3.62e-03	4.28e-03	-1.76e-03	2.27e-04	2.17e-03
## 1385	-7.18e-03	6.33e-03	-5.32e-05	-6.17e-03	-4.60e-03	1.36e-02	2.09e-02
## 1386	-9.18e-04	-2.87e-04	4.72e-04	1.47e-03	2.04e-03	9.77e-04	2.47e-03
## 1387	-3.82e-02	2.86e-02	2.24e-03	-7.80e-03	3.81e-02	2.50e-02	-8.16e-03
## 1388	-3.15e-02	1.28e-02	1.53e-03	-4.76e-03	3.22e-02	2.17e-02	2.78e-02
## 1389	1.78e-03	-2.10e-03	-8.71e-03	-9.90e-03	2.74e-03	2.75e-03	9.20e-04
## 1390	-9.70e-03	1.17e-02	-3.24e-02	-4.20e-03	-1.98e-02	2.36e-02	-2.40e-02
## 1391	8.98e-02	-4.65e-02	9.43e-03	4.49e-02	1.03e-01	7.75e-02	1.57e-02
## 1392	-8.32e-02	3.92e-02	4.49e-03	-7.41e-03	-4.92e-02	3.00e-02	5.01e-02
## 1393	2.14e-03	-1.22e-04	5.85e-04	-2.07e-03	-5.86e-03	1.89e-03	-4.44e-04
## 1394	1.02e-04	4.50e-04	-1.36e-05	-3.19e-04	-2.55e-04	-1.49e-07	-6.87e-04
## 1395	8.18e-03	3.21e-03	-1.50e-03	-5.45e-03	-1.50e-02	3.02e-03	-1.35e-02
## 1396	1.14e-02	-2.80e-02	6.45e-02	-4.22e-03	-6.88e-03	1.04e-01	-8.45e-02
## 1397	1.28e-02	7.49e-02	-1.81e-03	1.32e-02	4.07e-02	7.22e-02	-6.85e-02
## 1398	-5.90e-04	-2.48e-02	4.33e-06	-4.11e-03	1.51e-02	1.72e-03	1.52e-02
## 1399	-2.40e-03	-1.83e-04	3.76e-03	6.04e-04	2.84e-03	-5.75e-04	2.82e-03
## 1400	-1.25e-03	4.05e-03	2.85e-04	1.64e-03	-1.67e-03	3.11e-04	-5.03e-03
## 1401	1.36e-02	-1.58e-02	-3.16e-02	5.28e-03	-4.10e-02	2.54e-02	-2.78e-02
## 1402	4.52e-03	2.64e-03	8.35e-04	-2.12e-04	8.23e-03	-8.56e-03	-1.14e-03
## 1403	-9.80e-03	-7.47e-03	-2.76e-03	-1.62e-02	-3.10e-02	2.07e-02	-2.30e-02
## 1404	-1.08e-02	8.79e-03	9.76e-04	-9.51e-03	2.81e-02	-1.49e-02	1.35e-02
## 1405	-1.33e-02	-7.12e-04	2.09e-02	2.33e-02	7.72e-03	-1.38e-02	-9.00e-03
## 1406	1.33e-03	-9.10e-03	-2.31e-02	-2.69e-02	-2.75e-03	6.36e-04	2.66e-03
## 1407	4.41e-02	-8.71e-02	4.62e-04	-1.30e-02	4.25e-02	1.52e-04	-3.91e-03
## 1408	-5.15e-02	2.22e-02	-3.63e-04	-1.22e-02	-1.84e-03	2.45e-02	1.79e-02
## 1409	4.75e-03	1.15e-02	5.69e-04	-4.04e-03	4.28e-03	-4.79e-03	-1.18e-02
## 1410	7.53e-03	-5.25e-03	-1.00e-02	-4.75e-05	1.81e-03	-2.06e-03	-8.15e-03
## 1411	1.37e-04	-2.85e-05	5.26e-05	-3.46e-04	9.28e-04	1.01e-03	5.86e-04
## 1412	-8.40e-03	1.79e-02	1.26e-03	-3.36e-03	1.55e-02	1.11e-02	-4.76e-03
## 1413	1.24e-04	-1.37e-04	-1.07e-05	3.05e-05	1.52e-05	-1.29e-04	1.70e-04
## 1414	-6.81e-03	2.77e-02	3.62e-04	-7.45e-03	-3.09e-03	1.58e-02	-2.01e-02
## 1415	1.85e-02	-7.69e-04	-7.51e-04	-7.06e-03	-1.14e-02	-1.99e-02	1.78e-02
## 1416	-1.88e-02	-5.15e-03	2.14e-02	2.48e-02	-1.09e-02	9.07e-03	6.62e-03
## 1417	-6.86e-03	-2.67e-03	-5.15e-05	3.13e-03	9.62e-03	-9.64e-03	9.42e-03
## 1418	2.13e-04	-3.91e-04	-2.32e-04	-4.59e-03	-9.11e-03	9.34e-03	1.66e-02
## 1419	-1.72e-02	-9.14e-03	-3.18e-02	-1.42e-03	1.22e-02	1.01e-02	3.54e-02

##	1420	-3.73e-03	-2.21e-02	-1.70e-03	-1.27e-02	1.69e-02	-2.60e-02	-2.42e-02
##	1421	-5.79e-03	5.49e-04	-7.18e-05	1.42e-03	-2.46e-03	-4.19e-03	5.20e-03
##	1422	3.56e-03	1.42e-02	-2.53e-02	-3.10e-02	7.83e-03	-1.21e-02	4.83e-03
##	1423	1.68e-03	-6.48e-03	1.78e-03	-6.61e-03	-3.37e-02	-6.34e-03	-1.88e-02
##	1424	-4.08e-03	1.49e-02	1.01e-03	-4.09e-03	5.08e-03	9.30e-03	-1.36e-02
##	1425	3.49e-03	-1.46e-03	-3.65e-04	-3.20e-03	-9.44e-03	1.08e-04	4.06e-03
##	1426	1.32e-02	1.82e-02	3.96e-03	-9.97e-03	2.33e-02	-1.46e-02	2.18e-02
##	1427	-4.28e-02	-3.86e-03	-1.06e-03	-1.87e-02	3.70e-02	-9.37e-02	-9.00e-03
##	1428	1.09e-03	-4.23e-03	3.92e-04	-3.33e-03	7.81e-03	1.07e-02	1.35e-02
##	1429	-2.01e-02	-3.14e-03	-2.16e-04	-7.56e-03	2.51e-02	1.86e-02	1.18e-02
##	1430	-8.22e-03	6.74e-03	1.33e-03	-5.46e-03	2.18e-02	-2.31e-02	2.03e-02
##	1431	6.45e-04	-2.08e-04	3.04e-05	1.86e-04	-9.20e-04	9.79e-05	-2.99e-04
##	1432	-4.01e-03	-6.95e-03	2.27e-04	3.48e-03	-8.78e-04	-8.08e-03	2.13e-03
##	1433	7.24e-03	1.82e-03	3.68e-04	-1.59e-03	8.88e-03	-4.58e-04	-1.25e-03
##	1434	1.21e-02	3.03e-02	-1.41e-03	-1.37e-02	-3.09e-02	9.38e-03	3.85e-02
##	1435	-4.57e-03	-5.29e-03	8.22e-03	9.50e-03	2.68e-03	-8.19e-03	5.35e-03
##	1436	1.57e-03	-4.83e-02	3.12e-03	-9.98e-03	-1.89e-02	2.36e-02	2.51e-02
##	1437	-6.69e-02	5.03e-02	7.45e-03	-1.11e-02	2.49e-02	1.90e-02	-2.78e-03
##	1438	2.72e-03	-2.77e-03	-6.61e-03	-7.90e-03	-4.68e-03	-1.71e-05	3.61e-03
##	1439	5.96e-02	-5.64e-02	7.59e-02	-1.08e-03	-2.32e-02	-3.86e-03	6.94e-02
##	1440	4.13e-03	-2.10e-06	-5.10e-04	-2.95e-03	3.50e-03	5.45e-03	8.09e-03
##	1441	6.44e-04	7.42e-03	-7.16e-03	3.70e-04	2.53e-03	3.77e-03	-6.97e-03
##	1442	-9.02e-03	6.03e-02	-4.84e-02	-5.73e-02	-1.23e-02	-2.35e-02	4.93e-03
##	1443	1.65e-02	-1.95e-02	-8.28e-03	1.70e-02	4.15e-02	-4.85e-02	-1.01e-01
##	1444	3.72e-03	-1.21e-03	-1.99e-04	1.23e-03	-4.05e-03	-3.23e-03	-5.27e-03
##	1445	1.86e-02	1.94e-01	-3.85e-04	3.08e-02	-1.09e-01	-2.40e-02	9.57e-02
##	1446	4.69e-03	1.08e-03	-1.10e-03	-4.60e-03	3.16e-03	-1.85e-02	1.16e-02
##	1447	4.69e-03	-2.98e-04	-6.05e-04	-1.80e-03	1.03e-03	-7.27e-03	-4.45e-03
##	1448	1.11e-04	-1.78e-04	-8.00e-04	-8.91e-04	-5.00e-04	1.61e-04	4.63e-04
##	1449	-2.99e-03	-1.01e-03	-2.87e-04	-1.30e-03	-7.87e-04	1.47e-03	-6.38e-04
##	1450	-4.67e-03	-4.19e-03	4.74e-04	-6.51e-03	9.52e-03	1.42e-02	-2.15e-02
##	1451	2.47e-02	-8.10e-03	8.91e-06	-1.52e-02	-3.10e-02	-5.66e-02	-3.33e-03
##	1452	-3.11e-04	3.58e-04	-3.09e-05	3.08e-04	-9.51e-04	1.51e-05	-1.17e-03
##	1453	-6.46e-02	1.38e-01	1.08e-01	1.81e-03	9.00e-03	-7.09e-02	-4.63e-02
##	1454	-2.31e-03	-2.11e-03	-5.82e-04	-4.54e-03	-7.88e-03	-2.31e-03	5.85e-03
##	1455	9.01e-03	-1.86e-02	-6.21e-04	-5.53e-03	1.03e-02	-1.55e-02	-1.25e-02
##	1456	-6.29e-03	-1.52e-02	-6.83e-04	-7.99e-03	-2.39e-02	1.17e-02	-2.71e-03
##	1457	3.71e-02	2.45e-03	-3.34e-02	2.60e-03	-2.88e-02	-2.79e-02	-5.44e-03
##	1458	-2.71e-04	-1.32e-03	-1.94e-04	2.09e-04	8.83e-04	-1.11e-03	4.33e-04
##	1459	-1.39e-02	-7.89e-03	-8.04e-04	-6.05e-03	1.61e-02	1.16e-02	-3.41e-03
##	1460	-1.51e-02	2.99e-02	1.44e-03	-9.27e-03	-3.54e-02	-9.41e-03	-2.36e-02
##	1461	-6.18e-02	6.08e-03	-2.56e-03	-1.40e-02	2.43e-02	-7.77e-02	-4.27e-02
##	1462	2.95e-02	3.17e-02	2.10e-03	2.30e-02	-5.18e-02	1.26e-01	4.94e-02
##	1463	-9.40e-03	8.18e-03	-3.89e-04	-6.67e-03	1.17e-03	-2.12e-02	8.00e-03
##	1464	-1.97e-02	5.29e-03	3.25e-02	3.87e-02	1.38e-02	5.33e-03	6.31e-03
##	1465	-1.37e-02	1.36e-02	-9.44e-04	-9.35e-03	-1.92e-02	6.25e-03	-2.07e-02
##	1466	3.58e-03	5.11e-03	-4.93e-03	1.97e-04	-2.45e-04	-5.98e-03	-1.37e-03
##	1467	-6.91e-04	-1.54e-03	-2.76e-04	-8.87e-04	7.96e-04	6.52e-04	-2.13e-03
##	1468	1.54e-02	2.28e-02	3.60e-03	-4.87e-03	3.72e-02	1.80e-02	1.32e-02
##	1469	-1.00e-03	-3.99e-03	-4.97e-03	1.82e-04	-1.78e-03	3.30e-03	-4.40e-03

## 1470	1.81e-04	-3.85e-06	1.28e-05	-5.29e-05	7.29e-05	3.21e-05	1.04e-04
##	dfb.MrS1	dfb.MrS2	dfb.Hr1R	dfb.JbIn	dfb.JbLv	dfb.JbSt	dfb.MntI
## 1	-8.48e-02	-7.19e-02	8.03e-02	1.20e-02	2.39e-02	6.15e-02	-4.95e-03
## 2	-8.14e-03	-3.45e-04	1.88e-03	9.87e-03	-4.76e-03	6.78e-03	4.32e-03
## 3	-6.69e-02	-5.72e-02	6.81e-02	-5.37e-02	-2.89e-03	1.19e-02	-1.56e-02
## 4	-2.35e-02	3.04e-03	1.23e-02	-1.07e-02	2.13e-02	-1.04e-03	-7.84e-03
## 5	-2.04e-02	-3.45e-03	2.64e-02	-7.50e-03	1.78e-02	1.14e-02	-1.23e-02
## 6	1.53e-02	1.30e-02	-9.67e-03	-3.82e-03	1.19e-02	-1.35e-02	-7.94e-03
## 7	-1.02e-02	4.86e-03	-6.61e-03	-2.77e-02	1.03e-02	2.85e-02	1.00e-03
## 8	3.50e-04	-1.12e-02	-1.31e-05	-2.32e-03	2.71e-03	-1.60e-03	-3.44e-03
## 9	2.02e-02	1.65e-02	1.32e-02	1.54e-02	-1.05e-02	-1.60e-03	-2.43e-03
## 10	-5.44e-03	3.49e-04	-9.52e-03	-1.18e-03	-1.90e-03	-3.44e-03	5.87e-03
## 11	-8.04e-03	3.20e-04	-5.64e-03	-1.64e-02	4.65e-03	5.48e-03	-1.48e-03
## 12	3.04e-02	2.81e-02	1.79e-02	2.77e-02	-3.08e-02	-6.86e-03	3.38e-02
## 13	-6.29e-04	-3.90e-02	4.14e-02	-9.35e-03	1.82e-02	-4.45e-03	-1.30e-02
## 14	8.19e-04	-1.01e-02	-7.81e-03	-1.12e-03	3.32e-03	-8.15e-03	-2.97e-03
## 15	-4.09e-02	-3.43e-02	-2.74e-02	-3.32e-02	-1.30e-02	8.28e-03	-3.34e-04
## 16	1.86e-03	-9.67e-03	5.90e-03	-1.09e-02	-3.59e-03	1.00e-02	-1.07e-03
## 17	-2.13e-03	-4.24e-02	-1.24e-02	-4.31e-02	2.39e-02	1.30e-02	-1.65e-02
## 18	-1.71e-03	-1.94e-02	-2.02e-02	-2.46e-02	6.74e-03	-1.56e-02	-8.23e-03
## 19	3.32e-03	-8.63e-04	2.50e-03	-4.34e-03	-2.25e-03	5.13e-03	1.02e-03
## 20	2.94e-02	2.52e-02	2.23e-02	-1.19e-02	3.40e-02	-2.68e-02	-2.94e-02
## 21	-4.04e-04	-4.87e-03	-4.67e-03	-5.81e-03	-5.18e-03	-9.66e-04	4.35e-03
## 22	-8.46e-02	-6.62e-02	3.97e-02	-6.20e-02	-6.42e-02	-9.29e-02	3.51e-02
## 23	1.78e-02	1.46e-02	9.34e-03	-4.71e-03	1.04e-02	7.80e-03	-1.98e-02
## 24	2.26e-02	1.77e-02	-3.23e-02	-9.69e-03	-1.25e-02	-2.58e-02	1.14e-02
## 25	-7.57e-02	-6.19e-02	3.68e-02	1.94e-02	-4.46e-02	-8.15e-02	2.16e-02
## 26	-8.74e-03	2.26e-02	-5.91e-03	3.53e-03	6.13e-03	3.91e-03	1.26e-02
## 27	-2.51e-02	-2.05e-02	5.18e-03	-4.84e-02	-3.10e-02	-3.36e-02	2.14e-02
## 28	-5.06e-03	5.08e-04	6.53e-03	-2.61e-03	2.52e-03	4.65e-03	-2.63e-03
## 29	1.75e-03	2.46e-04	-1.82e-03	-1.69e-03	-5.52e-04	2.01e-03	-1.09e-04
## 30	2.26e-02	1.88e-02	-1.17e-02	-5.40e-03	-1.54e-02	2.18e-02	-5.01e-03
## 31	1.45e-02	1.20e-02	-7.44e-03	-4.81e-03	4.92e-03	-1.39e-02	-3.44e-04
## 32	-6.76e-03	7.99e-04	9.79e-03	-2.32e-03	1.26e-03	-8.35e-03	-2.23e-03
## 33	1.63e-02	1.40e-02	-1.62e-02	1.60e-02	1.01e-02	-8.08e-03	1.30e-03
## 34	1.06e-01	1.25e-02	-3.33e-02	3.74e-02	1.97e-01	1.10e-01	-2.93e-01
## 35	6.10e-02	9.82e-03	-1.07e-02	2.52e-02	-2.94e-03	5.73e-02	-1.70e-02
## 36	-1.42e-03	1.25e-02	1.79e-03	1.33e-02	-5.17e-03	2.72e-03	3.07e-03
## 37	4.07e-02	-3.05e-03	4.37e-02	-6.58e-02	-1.93e-02	1.07e-02	1.91e-02
## 38	1.34e-03	1.20e-04	2.23e-03	3.66e-04	9.34e-05	1.83e-03	-1.49e-04
## 39	-3.36e-02	-1.64e-03	-1.98e-02	3.79e-02	2.97e-02	5.23e-02	-2.06e-02
## 40	-8.56e-03	2.33e-04	1.09e-02	-1.50e-02	-5.30e-03	1.43e-02	5.32e-03
## 41	-3.90e-04	-5.48e-03	-1.56e-03	-1.11e-03	-2.74e-04	-3.89e-03	2.49e-04
## 42	-1.35e-03	-1.65e-02	1.70e-02	-3.73e-03	1.15e-03	1.63e-02	-1.28e-03
## 43	-5.00e-02	-3.97e-02	-3.68e-02	-9.51e-02	-6.33e-03	2.55e-03	9.97e-03
## 44	1.10e-02	1.01e-02	1.03e-02	-3.78e-03	-1.17e-02	-3.98e-04	5.00e-03
## 45	1.13e-02	9.63e-03	8.99e-04	-5.01e-03	-1.16e-02	-9.67e-03	1.44e-02
## 46	3.62e-02	-2.11e-02	-6.35e-02	3.98e-02	1.63e-02	1.37e-02	6.96e-02
## 47	2.11e-02	1.83e-02	-5.60e-03	-8.19e-03	-1.26e-02	-3.28e-03	1.41e-02
## 48	-1.61e-02	-2.53e-03	-1.98e-03	-6.56e-03	1.31e-02	9.41e-03	-6.28e-03

## 49	3.74e-02	3.12e-02	-4.01e-02	-5.23e-03	-3.12e-03	-2.67e-02	6.62e-03
## 50	4.67e-03	2.13e-04	-7.42e-03	8.76e-03	-6.64e-04	5.18e-03	9.22e-04
## 51	-6.03e-02	-5.37e-02	8.04e-02	-4.96e-02	1.58e-01	1.45e-02	-1.88e-01
## 52	-6.25e-02	-5.34e-02	-3.55e-02	1.77e-02	-3.50e-02	4.20e-03	4.07e-02
## 53	5.56e-03	-3.11e-02	-6.54e-03	-3.73e-03	-1.79e-02	3.65e-02	1.41e-02
## 54	-2.69e-02	4.58e-03	-1.61e-02	2.53e-02	-2.30e-02	4.23e-02	3.82e-03
## 55	-3.01e-02	-1.06e-03	2.51e-02	3.02e-02	-4.90e-02	-2.74e-02	4.08e-02
## 56	4.10e-02	3.23e-02	-4.80e-02	-9.03e-03	4.72e-02	-3.40e-02	-6.61e-02
## 57	-1.12e-02	1.21e-03	-2.46e-03	-2.75e-03	-1.75e-02	2.34e-02	5.09e-03
## 58	-2.89e-02	1.61e-03	6.97e-02	-1.08e-02	4.74e-02	5.71e-02	-4.66e-02
## 59	8.00e-04	1.63e-02	-6.35e-03	3.30e-03	1.43e-03	1.10e-02	-7.59e-04
## 60	1.35e-06	-1.73e-03	7.55e-04	1.21e-03	-2.31e-04	-2.21e-04	-3.35e-05
## 61	-2.00e-02	-3.43e-03	3.00e-02	-9.02e-03	-2.78e-03	-2.14e-02	1.25e-03
## 62	2.64e-02	2.20e-02	1.23e-02	-8.67e-03	-4.17e-02	-2.55e-02	4.72e-02
## 63	2.70e-03	-4.09e-02	2.87e-02	2.05e-02	-1.61e-02	-3.89e-03	2.81e-03
## 64	2.95e-02	2.31e-02	-1.93e-02	-2.21e-03	-1.62e-02	2.24e-02	2.82e-02
## 65	-8.21e-04	4.11e-03	-6.16e-04	1.06e-03	5.40e-04	7.97e-04	-4.03e-04
## 66	4.50e-04	-8.25e-03	9.01e-03	-2.17e-03	-1.92e-03	-9.33e-04	-1.85e-03
## 67	4.03e-02	3.36e-02	-3.87e-02	3.10e-02	-6.93e-04	2.06e-02	-1.25e-02
## 68	2.98e-04	-7.84e-03	2.77e-03	-1.61e-03	-2.45e-03	7.68e-03	4.76e-03
## 69	-2.42e-02	-1.02e-03	-1.12e-02	-6.21e-03	3.07e-03	3.69e-02	1.47e-03
## 70	5.44e-02	7.26e-03	3.45e-02	-5.23e-02	-3.47e-02	1.28e-02	4.11e-02
## 71	3.35e-02	2.89e-02	1.13e-02	2.65e-02	-1.51e-03	-1.89e-03	1.64e-02
## 72	-2.70e-03	-1.42e-04	-1.15e-03	-8.44e-04	1.32e-03	1.85e-03	-4.88e-04
## 73	2.58e-02	2.04e-02	-1.86e-02	-7.19e-03	1.05e-03	1.20e-02	-3.17e-03
## 74	-2.15e-03	-2.44e-04	1.48e-04	-5.86e-04	-8.44e-05	1.10e-03	-2.74e-05
## 75	-4.58e-03	-7.47e-04	2.72e-03	-7.79e-03	3.14e-03	-5.23e-03	-2.15e-03
## 76	2.51e-03	2.01e-03	8.64e-05	-8.87e-04	-1.96e-03	-2.18e-03	2.28e-03
## 77	1.68e-02	1.46e-02	1.99e-02	1.20e-02	-9.31e-03	2.13e-02	1.71e-02
## 78	-1.81e-02	-3.58e-04	1.50e-02	-8.00e-03	2.56e-02	2.66e-02	-3.42e-02
## 79	1.83e-02	1.48e-02	2.63e-02	-8.44e-03	2.53e-02	-3.03e-03	-3.27e-02
## 80	1.52e-03	-2.76e-02	-1.06e-02	-5.17e-03	-1.28e-02	1.13e-02	2.12e-02
## 81	-2.16e-02	5.88e-05	6.89e-03	1.85e-02	-1.81e-02	-2.05e-02	2.18e-02
## 82	2.23e-02	1.81e-02	2.98e-02	1.66e-02	1.24e-02	-6.22e-04	-7.57e-03
## 83	-3.92e-04	-3.69e-05	-5.45e-05	-1.61e-04	-7.28e-05	-5.29e-04	2.08e-04
## 84	-1.52e-03	-1.62e-02	-9.27e-03	2.57e-02	-3.62e-07	-1.22e-02	6.63e-03
## 85	-9.16e-03	9.42e-05	-1.31e-02	-2.43e-03	-1.71e-02	6.39e-03	1.41e-02
## 86	6.98e-03	6.51e-03	3.50e-03	1.29e-02	-6.69e-03	-5.79e-03	1.52e-02
## 87	-3.85e-03	-2.67e-02	4.02e-03	-6.01e-03	1.50e-03	2.15e-02	5.20e-04
## 88	6.20e-03	5.70e-04	1.06e-02	1.99e-03	-2.74e-03	9.39e-03	-1.53e-03
## 89	-4.11e-03	-9.91e-04	-7.76e-03	4.09e-03	-5.26e-03	-5.55e-03	6.37e-03
## 90	-1.18e-01	-8.85e-02	9.25e-03	-8.09e-02	6.33e-02	8.21e-02	8.80e-04
## 91	-1.87e-02	-2.24e-03	-1.31e-02	1.47e-02	-1.96e-02	1.05e-02	1.30e-02
## 92	4.97e-02	3.88e-02	-8.33e-03	-1.41e-02	-1.49e-02	-2.52e-02	1.51e-02
## 93	4.42e-05	-3.30e-02	1.88e-03	2.51e-02	-1.34e-02	1.57e-02	1.60e-02
## 94	-3.12e-02	3.12e-03	4.39e-02	3.56e-02	4.19e-03	6.01e-02	-1.84e-03
## 95	1.63e-02	1.27e-02	-1.23e-02	-4.06e-03	-7.77e-03	-3.47e-03	1.03e-02
## 96	-1.50e-03	5.76e-04	1.34e-03	-4.19e-04	3.85e-03	-4.55e-04	-5.61e-03
## 97	-1.24e-02	-1.04e-03	1.99e-02	-4.87e-03	-1.54e-02	-3.24e-04	1.05e-02
## 98	1.73e-03	1.19e-04	-1.39e-03	8.18e-04	1.77e-03	2.51e-04	-1.52e-03

## 99	-6.64e-03	-6.34e-03	-6.33e-03	3.40e-03	-6.46e-04	-5.67e-05	-3.74e-03
## 100	-5.06e-03	3.93e-04	3.08e-04	-2.16e-03	-9.74e-03	2.80e-03	1.40e-02
## 101	6.75e-04	9.28e-02	-1.53e-02	1.88e-02	-8.25e-03	-8.99e-02	-1.43e-02
## 102	2.55e-02	2.14e-02	-3.43e-03	-7.95e-03	8.01e-03	3.03e-02	-1.09e-02
## 103	-3.78e-02	-3.43e-02	1.08e-02	-3.16e-02	-1.57e-02	3.81e-02	2.06e-02
## 104	1.04e-02	8.55e-03	8.92e-03	-3.01e-03	-2.84e-03	-1.16e-03	7.18e-03
## 105	1.58e-03	1.05e-02	1.20e-02	-5.97e-03	2.94e-03	8.57e-03	-7.28e-03
## 106	1.42e-02	-4.66e-03	-2.62e-02	-1.52e-02	8.82e-03	1.65e-02	2.73e-03
## 107	-1.57e-02	3.71e-03	-5.61e-03	-4.18e-03	-2.17e-02	1.37e-02	4.74e-03
## 108	-4.82e-02	-4.38e-02	-3.57e-02	-3.82e-02	2.31e-02	6.34e-03	-1.01e-02
## 109	-9.07e-03	-1.19e-03	1.98e-05	8.73e-03	4.26e-03	-9.78e-03	-3.92e-03
## 110	2.64e-02	2.05e-02	6.83e-03	-1.24e-02	1.06e-02	-2.65e-02	-1.28e-02
## 111	4.85e-02	3.87e-02	5.03e-02	3.09e-02	-4.88e-02	5.43e-02	6.20e-02
## 112	-4.56e-02	-3.77e-02	6.36e-03	-8.65e-02	6.48e-03	-1.44e-04	1.01e-03
## 113	1.44e-02	1.37e-02	1.69e-02	-2.05e-02	1.64e-02	-1.10e-02	-2.38e-02
## 114	-1.48e-02	-1.39e-03	1.21e-02	-5.65e-03	1.01e-02	-3.52e-03	-4.62e-03
## 115	-2.03e-03	-1.89e-02	1.11e-02	1.11e-02	-1.23e-02	7.50e-03	1.54e-02
## 116	4.18e-03	3.56e-03	-3.67e-03	-1.04e-03	-6.90e-03	-3.52e-03	5.73e-03
## 117	2.26e-02	1.86e-02	1.50e-02	1.57e-02	7.85e-03	2.42e-02	-1.61e-02
## 118	-3.69e-04	5.20e-05	-6.25e-04	-6.32e-05	-3.57e-04	-5.37e-04	-1.12e-05
## 119	-5.74e-04	-1.17e-02	9.08e-03	-2.90e-03	4.04e-03	-7.10e-03	-1.41e-03
## 120	-8.52e-03	1.50e-03	-1.39e-02	-4.37e-03	1.72e-02	-1.32e-02	-2.18e-02
## 121	-3.56e-04	-3.92e-02	-3.37e-02	6.08e-02	1.98e-02	-5.49e-03	-8.28e-03
## 122	4.11e-03	-6.98e-04	6.08e-03	1.45e-03	-6.38e-04	-2.36e-03	1.58e-03
## 123	3.33e-02	-5.07e-03	5.20e-04	1.37e-02	-1.13e-01	-3.52e-02	1.06e-01
## 124	2.25e-03	1.61e-03	7.03e-04	-3.78e-04	-2.84e-05	-3.20e-04	-1.46e-03
## 125	5.04e-02	1.09e-02	3.07e-02	-1.12e-01	6.01e-03	1.53e-02	-1.06e-02
## 126	-2.06e-02	-3.50e-03	1.87e-02	1.86e-02	4.65e-03	1.37e-02	8.00e-04
## 127	5.82e-02	-9.31e-03	1.07e-01	7.01e-02	-7.63e-02	1.03e-01	-8.52e-02
## 128	-4.41e-02	-3.74e-02	-2.67e-02	2.26e-02	1.39e-02	5.24e-03	-8.65e-03
## 129	-8.30e-03	-1.79e-03	-1.25e-02	-2.93e-03	1.17e-03	-9.70e-03	-1.88e-04
## 130	-2.17e-03	5.38e-04	-4.54e-03	-4.06e-04	2.36e-03	4.89e-03	-1.24e-03
## 131	3.22e-02	2.65e-02	-8.17e-04	-3.91e-02	5.73e-02	-7.47e-03	-3.51e-02
## 132	1.82e-02	1.53e-02	-8.36e-03	-4.44e-03	-1.13e-02	-1.43e-02	7.50e-03
## 133	4.44e-02	6.41e-03	1.27e-02	-1.01e-01	5.45e-02	9.39e-03	-3.93e-02
## 134	8.25e-04	-9.37e-03	-9.95e-03	-1.04e-03	-1.06e-02	-2.17e-03	7.52e-03
## 135	-6.33e-03	-6.17e-04	2.36e-03	-2.35e-03	7.23e-03	-2.19e-03	-3.85e-03
## 136	-4.12e-04	-1.36e-02	-6.81e-03	-2.98e-03	-8.67e-03	4.37e-03	7.13e-03
## 137	-7.94e-02	-6.64e-02	-3.14e-02	-1.42e-01	-2.90e-03	5.51e-02	1.81e-02
## 138	6.24e-03	-2.73e-04	-6.17e-03	-7.78e-03	-2.17e-03	1.74e-03	-2.48e-03
## 139	-2.36e-02	-4.13e-03	3.27e-02	2.36e-02	3.05e-02	-4.66e-03	-4.36e-02
## 140	-1.42e-02	8.60e-04	1.29e-02	-5.81e-03	1.13e-03	-1.65e-02	1.93e-04
## 141	-8.21e-02	-6.39e-02	-8.79e-02	2.63e-02	-1.01e-01	-9.72e-02	7.22e-02
## 142	2.09e-02	1.61e-02	-8.73e-03	-2.96e-03	1.73e-02	-1.40e-02	-1.27e-02
## 143	2.66e-02	2.39e-02	3.62e-02	-1.47e-02	-2.24e-02	-4.50e-03	4.24e-02
## 144	3.34e-02	2.57e-02	-8.70e-03	-9.29e-03	1.42e-02	-6.95e-03	-1.02e-02
## 145	-1.08e-03	-6.28e-03	4.11e-03	8.47e-03	-2.37e-03	-3.60e-03	2.45e-03
## 146	-1.72e-03	-1.72e-02	-7.90e-03	-3.66e-03	8.86e-03	1.25e-02	-4.67e-03
## 147	2.35e-02	1.96e-02	2.72e-02	1.74e-02	1.15e-02	-1.80e-02	-4.82e-03
## 148	1.30e-03	-1.81e-02	-1.53e-02	1.39e-02	1.31e-02	1.61e-02	-2.44e-02

## 149	-8.49e-03	-3.29e-04	-1.11e-02	-2.26e-03	2.38e-03	1.38e-02	1.15e-03
## 150	3.06e-02	2.59e-02	-1.55e-02	-1.13e-02	-1.48e-02	1.68e-02	1.55e-02
## 151	2.00e-04	-1.22e-02	6.43e-03	-1.57e-03	4.33e-03	5.33e-03	2.36e-03
## 152	3.95e-03	-2.84e-04	6.39e-03	1.07e-03	1.07e-02	-2.61e-03	-8.43e-03
## 153	-1.18e-02	4.20e-03	2.96e-02	-3.50e-03	-4.36e-02	9.48e-04	5.13e-02
## 154	2.80e-04	6.94e-03	-1.32e-03	6.07e-04	7.25e-03	-2.36e-03	-1.13e-02
## 155	1.72e-02	1.47e-02	1.16e-02	-5.13e-03	-1.50e-02	-1.23e-02	5.08e-03
## 156	1.72e-02	-2.64e-03	-1.73e-02	6.03e-03	1.48e-02	1.95e-03	-1.72e-02
## 157	-7.29e-03	2.10e-04	1.47e-02	9.53e-03	-1.48e-03	-6.37e-04	9.43e-04
## 158	-2.00e-02	4.32e-03	-5.49e-03	3.75e-02	2.82e-02	2.37e-02	-1.74e-02
## 159	7.13e-03	-1.50e-04	1.65e-03	-1.00e-02	-1.55e-03	1.00e-02	5.43e-03
## 160	-1.32e-02	-2.08e-03	-5.58e-03	-4.68e-03	3.38e-03	-3.12e-03	3.81e-04
## 161	-7.76e-03	-1.38e-03	-5.63e-03	-2.99e-03	8.57e-04	-9.47e-03	-6.47e-04
## 162	-1.44e-03	-1.06e-02	2.44e-03	-3.45e-03	1.20e-03	4.54e-03	9.59e-04
## 163	-1.58e-02	-2.16e-03	1.73e-02	-6.18e-03	9.29e-03	-1.58e-02	-6.00e-03
## 164	3.17e-03	-1.34e-02	-7.76e-03	-1.51e-02	-8.68e-03	-1.13e-02	1.82e-03
## 165	-3.02e-03	-3.34e-02	-1.66e-02	2.22e-02	4.50e-03	-2.76e-03	-6.73e-03
## 166	7.01e-03	5.64e-03	2.60e-03	-1.34e-03	-9.31e-04	2.91e-03	-5.27e-03
## 167	9.95e-05	-4.57e-03	1.77e-03	-5.87e-04	2.93e-03	-1.03e-03	-5.24e-04
## 168	-1.36e-03	6.55e-05	1.85e-03	-7.12e-04	-1.62e-03	-1.72e-03	9.72e-04
## 169	1.24e-02	9.29e-03	2.83e-03	9.27e-03	1.50e-02	-1.12e-02	-1.61e-02
## 170	1.55e-02	1.21e-02	1.41e-02	-7.24e-03	1.26e-02	-3.28e-03	-7.04e-03
## 171	-3.24e-02	-1.63e-04	2.97e-02	-1.37e-02	2.38e-02	2.56e-02	-1.40e-02
## 172	-4.06e-02	-3.39e-02	7.55e-02	-9.62e-02	2.97e-03	-6.41e-02	8.36e-04
## 173	3.42e-02	3.02e-02	4.27e-02	-1.18e-02	1.48e-02	2.18e-02	8.17e-03
## 174	-1.69e-04	-1.24e-03	-7.68e-05	-3.52e-04	-1.20e-03	1.10e-03	1.55e-03
## 175	1.81e-03	-2.25e-02	3.02e-02	-3.85e-03	-1.14e-02	2.70e-02	1.13e-02
## 176	3.34e-03	-3.14e-02	4.56e-03	-5.00e-03	4.22e-02	2.95e-02	-1.92e-02
## 177	1.09e-02	8.47e-03	-1.21e-02	-4.46e-03	3.62e-03	-1.24e-02	-1.97e-03
## 178	-5.01e-02	-3.89e-02	-3.61e-02	-3.91e-02	4.28e-02	5.37e-02	-4.57e-02
## 179	2.55e-03	-1.09e-02	-8.97e-03	-4.07e-03	3.13e-04	1.03e-02	3.35e-03
## 180	1.83e-02	1.44e-02	-5.57e-03	-3.89e-03	2.34e-03	-1.36e-02	-2.43e-03
## 181	-2.20e-02	-4.44e-03	-2.94e-02	-9.32e-03	2.54e-02	-2.62e-02	-1.99e-02
## 182	2.74e-02	2.14e-02	-2.67e-02	-7.44e-03	1.16e-02	9.58e-03	-1.29e-03
## 183	-7.04e-02	-5.51e-02	1.13e-04	1.29e-02	-3.04e-02	-3.62e-02	3.16e-02
## 184	-6.44e-03	-4.09e-04	-6.84e-03	8.69e-03	7.98e-03	-2.31e-03	-7.60e-03
## 185	-1.06e-03	4.70e-03	-2.22e-03	5.28e-03	4.04e-03	-5.39e-03	-2.77e-03
## 186	-1.50e-03	1.39e-05	-3.00e-04	-4.00e-04	1.50e-03	9.31e-04	-7.32e-04
## 187	7.04e-03	-9.80e-04	-7.34e-03	4.56e-03	5.74e-03	1.97e-03	5.19e-03
## 188	-2.95e-02	-2.55e-02	-5.23e-03	2.87e-02	-2.79e-03	-9.69e-03	6.19e-03
## 189	-2.66e-03	3.27e-07	2.57e-03	3.16e-03	5.88e-03	-3.39e-04	-7.02e-03
## 190	1.01e-03	8.04e-04	-1.04e-03	-2.93e-04	-7.08e-04	3.84e-04	3.28e-04
## 191	4.60e-03	-2.24e-03	5.32e-04	-6.62e-03	-4.85e-03	1.44e-03	6.20e-03
## 192	1.95e-02	1.60e-02	-2.27e-02	-5.11e-03	4.47e-03	8.33e-03	5.61e-04
## 193	4.93e-02	5.35e-03	-3.91e-02	-4.70e-02	1.47e-02	9.12e-03	-6.26e-03
## 194	-1.03e-03	2.55e-02	-2.59e-02	3.46e-02	-1.11e-02	1.92e-02	1.42e-03
## 195	1.33e-03	-3.15e-04	1.16e-04	-1.31e-03	-1.70e-03	1.86e-03	2.73e-03
## 196	-2.19e-02	1.94e-03	1.02e-02	-4.36e-02	3.72e-02	4.00e-02	-2.88e-02
## 197	2.93e-02	2.75e-02	3.76e-02	-1.53e-02	-2.97e-02	2.19e-02	3.28e-02
## 198	3.31e-05	4.55e-03	-4.70e-03	1.60e-03	9.36e-04	3.13e-04	-1.38e-03



## 199	2.02e-03	3.06e-06	2.22e-03	6.50e-04	-1.98e-04	8.09e-04	-3.02e-04
## 200	8.71e-04	-8.39e-05	-6.80e-04	2.31e-04	-1.70e-04	1.28e-03	4.69e-04
## 201	-3.15e-02	-5.22e-03	5.27e-03	2.37e-02	-4.04e-02	4.23e-02	3.54e-02
## 202	-6.36e-04	3.21e-03	3.43e-03	5.92e-04	-1.30e-03	2.91e-03	2.39e-03
## 203	-2.65e-03	-4.14e-02	2.73e-02	-1.24e-02	3.42e-02	-2.56e-03	-2.93e-02
## 204	-1.32e-02	-8.22e-04	-2.20e-02	-3.03e-03	-2.45e-02	-1.81e-02	3.30e-02
## 205	3.96e-02	-2.77e-03	-6.03e-03	1.53e-02	-1.80e-02	-7.18e-02	-1.92e-03
## 206	8.65e-02	1.71e-02	-1.07e-01	3.30e-02	1.49e-01	8.43e-02	-1.06e-01
## 207	-2.24e-03	-3.39e-02	6.55e-03	-3.74e-02	2.88e-03	1.37e-02	1.10e-03
## 208	2.61e-02	2.20e-02	-7.81e-03	-7.90e-03	1.38e-02	-2.64e-02	-4.00e-03
## 209	4.60e-04	-7.78e-05	7.63e-06	-4.75e-04	4.98e-04	4.53e-04	-3.11e-04
## 210	-2.79e-04	7.45e-03	7.19e-03	1.14e-03	4.55e-03	-6.47e-03	-3.56e-03
## 211	7.63e-02	7.57e-03	-1.02e-01	-1.74e-01	1.65e-02	7.89e-02	8.39e-03
## 212	4.74e-03	4.41e-03	-5.29e-03	3.08e-03	-5.75e-03	-7.83e-04	4.07e-03
## 213	1.79e-02	1.49e-02	-1.51e-02	-3.32e-03	2.89e-02	-3.60e-03	-3.79e-02
## 214	-2.61e-03	1.56e-03	-3.41e-03	7.54e-03	5.54e-03	4.05e-03	-9.01e-03
## 215	-6.23e-02	-5.68e-02	4.97e-02	1.62e-02	-2.80e-02	-7.23e-02	7.18e-03
## 216	2.58e-02	2.14e-02	-1.02e-02	-9.12e-03	2.73e-02	-2.14e-02	-3.91e-02
## 217	-4.85e-02	-4.22e-02	-2.88e-02	-3.48e-02	-1.18e-02	-6.93e-02	2.10e-02
## 218	-8.28e-02	-6.96e-02	6.49e-02	2.35e-02	-1.02e-02	2.19e-02	-1.56e-02
## 219	5.32e-03	5.11e-03	5.58e-04	2.74e-03	-2.43e-03	-4.36e-03	4.64e-03
## 220	2.87e-03	-5.21e-04	-3.20e-03	6.45e-04	-2.58e-04	-5.50e-03	-1.14e-03
## 221	-1.90e-04	-1.58e-04	-2.06e-05	4.69e-05	-2.30e-05	-8.45e-05	-3.91e-05
## 222	-1.81e-02	-4.18e-03	1.46e-02	1.38e-02	7.56e-03	1.02e-02	-9.86e-04
## 223	4.53e-04	-2.40e-02	1.30e-02	-4.99e-03	1.33e-02	-1.57e-02	-2.84e-02
## 224	-4.18e-05	3.19e-03	1.03e-03	4.76e-04	-2.08e-04	8.86e-04	6.92e-04
## 225	-5.38e-03	1.09e-04	-6.48e-03	1.13e-02	-6.35e-03	-1.09e-03	5.53e-03
## 226	-2.84e-03	-3.29e-04	-5.64e-04	3.47e-03	9.79e-04	-3.72e-03	1.99e-04
## 227	-1.33e-03	-1.53e-02	9.89e-03	-3.09e-03	1.03e-02	-1.00e-02	-3.05e-03
## 228	-6.07e-03	6.32e-04	6.79e-03	-3.38e-03	-1.32e-02	-5.66e-03	1.08e-02
## 229	5.38e-03	4.75e-03	-5.86e-03	-1.14e-03	-5.28e-03	-1.01e-03	2.46e-03
## 230	-5.49e-02	-4.53e-02	4.49e-02	-4.13e-02	-1.17e-02	4.53e-02	6.40e-03
## 231	1.98e-02	1.49e-02	-1.41e-02	1.46e-02	1.00e-02	-1.37e-02	-8.50e-03
## 232	1.17e-02	-2.25e-03	-2.73e-03	5.86e-03	4.29e-03	2.25e-02	1.79e-02
## 233	-3.67e-03	4.69e-04	4.89e-03	-1.04e-03	2.08e-03	-9.20e-04	-3.43e-04
## 234	9.84e-04	2.97e-02	4.64e-03	5.98e-03	9.15e-04	2.62e-02	1.08e-02
## 235	5.81e-02	1.21e-03	-2.40e-02	1.73e-02	-3.07e-02	6.43e-02	6.02e-03
## 236	3.07e-03	-1.18e-03	4.01e-03	1.66e-03	-3.20e-03	5.66e-03	6.71e-03
## 237	7.70e-02	1.10e-02	-1.13e-01	2.79e-02	-7.15e-02	-1.11e-01	4.69e-03
## 238	3.70e-02	3.45e-02	-2.02e-02	1.29e-02	-1.86e-03	-4.65e-03	-2.03e-03
## 239	-6.97e-03	2.10e-04	5.20e-03	-2.25e-03	1.01e-02	5.08e-03	-8.23e-03
## 240	-5.23e-02	-4.47e-02	-2.33e-03	-4.12e-02	-4.19e-02	6.55e-03	4.33e-02
## 241	-9.17e-05	1.37e-03	1.24e-03	1.62e-04	-2.30e-04	3.33e-04	-1.23e-04
## 242	-1.04e-03	9.16e-05	-1.95e-03	-4.95e-04	-1.42e-03	-1.33e-03	9.99e-04
## 243	1.62e-04	-1.86e-02	1.99e-02	-3.59e-03	-2.08e-02	1.99e-02	2.97e-02
## 244	5.44e-04	-3.34e-03	4.63e-04	-4.02e-04	-3.47e-03	-2.45e-03	3.71e-03
## 245	1.51e-02	-5.14e-04	3.17e-03	2.96e-02	6.45e-03	1.77e-02	6.31e-03
## 246	2.31e-04	-1.46e-02	-3.27e-03	-2.74e-03	1.26e-02	-2.46e-03	-2.34e-02
## 247	-9.67e-03	-1.23e-03	9.29e-04	1.02e-02	4.70e-03	-1.05e-02	-5.20e-03
## 248	-4.86e-03	-3.89e-04	-4.52e-03	5.65e-03	-1.33e-04	6.68e-03	1.24e-03

## 249	-1.59e-02	-1.05e-03	-9.62e-03	1.71e-02	2.39e-02	2.15e-02	-8.06e-03
## 250	-5.29e-03	7.91e-04	-2.43e-03	-1.12e-02	-1.04e-04	-1.30e-03	-1.51e-03
## 251	1.25e-02	1.12e-01	-1.70e-02	2.64e-02	2.91e-02	1.89e-02	-1.59e-02
## 252	2.31e-02	1.80e-02	-2.01e-03	-1.23e-02	4.77e-03	-3.71e-03	-3.90e-03
## 253	1.38e-02	1.06e-02	2.18e-03	-4.82e-03	5.61e-03	-1.25e-02	-2.24e-03
## 254	4.11e-02	3.51e-02	-1.63e-02	-4.53e-02	3.35e-03	4.03e-02	-8.16e-03
## 255	1.18e-04	2.65e-03	-1.56e-03	6.03e-04	-7.98e-04	1.86e-03	9.17e-04
## 256	-1.37e-02	-1.90e-03	2.58e-03	-4.97e-03	-1.48e-02	-3.14e-03	1.17e-02
## 257	-2.10e-03	-4.33e-02	1.24e-02	2.86e-02	2.20e-02	3.63e-02	-5.51e-03
## 258	-1.77e-03	1.19e-02	-6.88e-03	3.73e-03	3.54e-03	1.01e-03	6.67e-03
## 259	-1.08e-03	9.42e-05	-2.02e-03	-2.50e-04	4.11e-04	-1.74e-03	-6.71e-04
## 260	-5.71e-02	-4.66e-02	9.71e-03	-4.75e-02	-6.83e-02	-2.86e-02	5.86e-02
## 261	-1.47e-02	8.99e-04	-2.46e-02	-2.71e-02	6.65e-03	1.13e-02	-5.30e-03
## 262	6.63e-03	-5.83e-04	-7.24e-03	-5.74e-03	2.52e-03	6.69e-03	-4.95e-03
## 263	2.07e-02	1.87e-02	-2.02e-02	1.90e-02	-5.10e-02	2.85e-02	5.48e-02
## 264	-2.22e-02	-1.82e-04	-1.31e-02	6.13e-02	2.61e-02	1.20e-02	-3.40e-02
## 265	-6.41e-02	-5.19e-02	3.01e-02	2.18e-02	-3.97e-02	1.47e-02	3.55e-02
## 266	-1.86e-02	-2.27e-03	-8.75e-03	1.90e-02	-2.79e-03	1.14e-02	1.34e-03
## 267	-1.49e-02	-2.73e-03	1.12e-03	1.57e-02	-5.88e-03	-1.80e-02	6.63e-03
## 268	-1.48e-04	-1.31e-03	-7.63e-04	-1.58e-03	-1.31e-03	1.25e-03	1.18e-03
## 269	-4.41e-03	1.47e-03	-4.21e-03	-1.95e-03	-5.91e-03	-7.21e-03	2.88e-03
## 270	6.36e-03	-2.25e-04	-6.98e-03	2.15e-03	-1.31e-02	9.91e-03	3.97e-03
## 271	1.65e-02	1.55e-02	-7.86e-03	-6.71e-03	1.25e-03	1.69e-02	-8.95e-04
## 272	3.17e-02	-1.70e-02	5.00e-02	1.59e-02	-3.48e-02	-3.38e-02	8.80e-02
## 273	6.33e-04	7.57e-05	9.14e-04	1.94e-04	-2.20e-05	7.80e-04	-1.22e-04
## 274	2.94e-03	3.30e-04	4.98e-03	1.22e-03	1.21e-04	4.03e-03	6.65e-04
## 275	2.06e-02	1.63e-02	-3.16e-02	1.55e-02	1.08e-02	-6.03e-03	-9.46e-03
## 276	-4.85e-04	-1.44e-02	-7.15e-03	-5.53e-03	1.50e-02	-1.11e-02	-2.11e-02
## 277	3.23e-03	-1.06e-02	-6.90e-04	-1.30e-02	3.25e-03	5.02e-03	-1.02e-02
## 278	-1.47e-03	-5.14e-02	3.63e-02	-5.43e-02	-1.77e-02	4.51e-02	1.32e-02
## 279	2.50e-04	-1.78e-02	-1.09e-02	-2.79e-03	-3.48e-03	8.58e-03	-2.18e-03
## 280	-7.99e-04	5.07e-03	4.92e-03	8.35e-04	1.90e-03	-1.71e-03	1.32e-03
## 281	-6.33e-03	1.96e-03	1.01e-02	-2.95e-03	1.10e-02	-1.27e-03	-1.99e-02
## 282	1.99e-04	-1.50e-05	5.47e-04	1.59e-04	1.61e-04	1.00e-04	-4.86e-04
## 283	1.44e-02	1.30e-02	1.11e-02	-5.58e-03	-1.19e-02	-1.32e-02	1.19e-02
## 284	-8.68e-03	4.26e-04	1.63e-02	-3.01e-03	-1.41e-03	-1.14e-02	2.59e-03
## 285	-5.13e-02	-3.91e-03	1.77e-02	-1.78e-02	-5.55e-02	7.53e-02	4.12e-02
## 286	-1.14e-03	-9.63e-04	-8.42e-04	3.74e-04	-7.61e-04	8.25e-04	-2.97e-04
## 287	4.59e-03	8.27e-02	-6.09e-02	1.99e-02	-7.37e-02	6.74e-03	1.44e-02
## 288	-1.67e-05	2.77e-03	1.41e-03	4.90e-04	3.70e-04	2.20e-03	-3.10e-04
## 289	1.31e-03	7.63e-02	-5.93e-02	1.45e-02	-1.73e-02	-3.59e-02	3.70e-03
## 290	9.77e-03	7.76e-03	-8.40e-04	-3.72e-03	6.71e-03	-8.23e-03	-5.42e-03
## 291	4.72e-02	4.45e-02	5.01e-02	-1.47e-02	-3.06e-02	5.86e-02	-1.57e-02
## 292	2.23e-02	1.89e-02	3.35e-02	-9.82e-03	-2.04e-02	1.25e-02	2.32e-02
## 293	-2.54e-03	-2.71e-02	-1.46e-02	-4.56e-03	7.77e-03	8.78e-03	-9.22e-03
## 294	-6.27e-02	-5.27e-02	-2.86e-02	-4.30e-02	1.86e-02	5.28e-02	-1.40e-02
## 295	-3.31e-02	-3.58e-04	2.14e-02	-1.05e-02	1.03e-02	-3.14e-02	-6.05e-03
## 296	-9.02e-03	3.21e-04	-4.42e-03	-4.43e-03	-6.68e-03	5.46e-03	4.13e-03
## 297	-5.69e-02	-4.86e-02	-2.66e-02	3.43e-02	3.13e-02	1.53e-02	-2.99e-02
## 298	-1.93e-03	3.54e-04	-4.14e-03	-4.02e-04	-5.07e-03	1.52e-03	3.76e-03

## 299	-9.05e-03	-9.33e-04	-6.03e-03	-1.63e-02	1.06e-02	-1.10e-02	-1.05e-02
## 300	4.24e-04	-7.22e-03	-4.23e-03	1.19e-02	-2.25e-03	2.86e-03	3.19e-03
## 301	-1.29e-03	-1.09e-03	9.73e-04	5.66e-04	-3.54e-04	-6.04e-04	8.34e-04
## 302	2.53e-02	2.17e-02	-7.73e-03	2.21e-02	-1.55e-02	-6.27e-03	1.49e-02
## 303	2.06e-02	1.72e-02	1.37e-03	-2.42e-02	-5.95e-03	2.22e-02	3.91e-03
## 304	-1.39e-03	-1.73e-04	-2.60e-03	-2.61e-03	5.37e-04	-2.22e-03	-7.04e-04
## 305	-2.65e-03	2.39e-02	-1.30e-02	3.02e-02	8.09e-03	1.74e-02	-9.59e-03
## 306	7.53e-04	-1.95e-04	-9.40e-04	2.99e-04	-4.03e-05	-6.63e-04	-1.47e-05
## 307	-2.42e-03	-1.10e-04	-3.39e-03	2.81e-03	-8.84e-04	-9.24e-04	1.57e-03
## 308	-1.09e-02	1.41e-03	-8.14e-03	1.55e-02	1.37e-02	1.06e-02	-1.61e-02
## 309	-1.11e-03	-1.90e-02	1.95e-02	3.01e-02	-1.29e-03	-3.34e-04	3.42e-03
## 310	-1.89e-02	-1.68e-03	-1.72e-02	-6.38e-03	3.29e-02	-2.29e-02	-3.02e-02
## 311	-2.80e-02	-4.85e-03	7.90e-03	2.36e-02	-4.65e-03	3.71e-02	2.37e-03
## 312	1.78e-03	-1.81e-02	-1.83e-02	-3.65e-03	-3.62e-02	1.89e-02	4.69e-02
## 313	-5.22e-03	-4.32e-02	3.64e-02	-1.12e-02	8.69e-03	-2.51e-02	-8.01e-03
## 314	-8.78e-03	-5.12e-04	-4.24e-03	-3.02e-03	5.18e-03	4.49e-03	-1.16e-02
## 315	-1.77e-02	1.18e-03	-3.60e-02	-1.09e-02	2.39e-02	3.03e-02	-4.07e-02
## 316	1.41e-02	1.14e-02	1.68e-02	-4.83e-03	1.06e-02	-1.14e-02	-5.25e-03
## 317	2.45e-02	2.23e-02	-2.33e-02	2.04e-02	-1.40e-02	-6.27e-03	7.47e-03
## 318	5.58e-02	7.46e-04	6.12e-02	-8.44e-02	5.63e-02	-3.66e-02	-6.12e-02
## 319	5.04e-02	4.37e-02	-3.32e-02	-1.29e-02	7.48e-03	2.56e-02	-3.34e-03
## 320	-2.56e-02	-1.34e-03	-1.39e-03	2.96e-02	-1.16e-02	1.59e-02	2.17e-02
## 321	2.86e-02	2.63e-02	-1.21e-02	-7.31e-03	-3.03e-02	-3.90e-03	2.32e-02
## 322	9.25e-04	1.92e-02	5.42e-03	3.18e-03	-1.18e-02	1.55e-02	1.09e-02
## 323	4.53e-03	3.68e-03	-1.36e-03	-5.31e-03	-2.48e-03	-3.60e-03	2.34e-03
## 324	4.54e-02	6.19e-03	3.91e-02	-1.06e-01	-3.24e-02	4.80e-02	2.52e-02
## 325	5.38e-03	-1.49e-04	-4.89e-04	1.27e-03	-4.31e-04	7.53e-03	4.36e-05
## 326	-1.04e-02	-1.46e-03	6.28e-03	1.05e-02	-1.31e-02	-1.48e-03	6.27e-03
## 327	-1.14e-02	3.09e-04	4.01e-03	8.70e-03	-7.73e-03	-1.31e-02	-7.84e-03
## 328	6.41e-02	-1.14e-03	-7.61e-02	2.50e-02	5.03e-02	6.25e-03	-6.05e-02
## 329	3.24e-02	2.81e-02	2.04e-02	2.30e-02	-2.48e-02	-2.29e-02	2.43e-02
## 330	8.26e-03	-2.29e-03	-1.22e-02	3.61e-03	1.38e-02	1.78e-03	4.33e-04
## 331	3.08e-04	-1.42e-02	-7.85e-03	9.34e-03	-4.46e-03	-1.64e-03	4.63e-03
## 332	-2.06e-02	3.68e-04	-7.15e-03	-9.29e-03	-2.65e-03	1.11e-02	-3.25e-03
## 333	1.99e-02	1.80e-02	2.46e-02	-4.71e-03	-2.48e-03	-1.17e-03	1.27e-02
## 334	-8.05e-03	9.05e-04	1.23e-02	-3.14e-03	-9.05e-03	1.63e-02	1.29e-03
## 335	5.30e-03	2.26e-04	3.96e-03	1.74e-03	8.53e-03	8.46e-03	-1.08e-02
## 336	-2.39e-02	-9.34e-04	9.13e-03	6.55e-02	7.74e-03	-2.43e-02	-2.16e-02
## 337	4.66e-02	5.28e-03	1.98e-02	-1.08e-01	-1.22e-02	-6.33e-02	-3.68e-03
## 338	2.79e-02	2.12e-02	3.95e-02	1.99e-02	3.10e-02	-2.39e-02	-2.95e-02
## 339	-1.67e-04	-2.52e-03	2.41e-03	1.33e-03	3.96e-05	-1.78e-04	9.73e-05
## 340	-3.08e-03	-5.12e-05	1.94e-03	-9.08e-04	-3.74e-04	2.27e-03	-3.26e-04
## 341	-1.18e-05	1.08e-02	-9.72e-04	2.01e-03	4.44e-04	7.74e-03	1.24e-03
## 342	9.89e-04	-1.58e-02	-1.44e-02	1.15e-02	4.67e-03	-1.27e-02	-1.21e-02
## 343	2.57e-02	2.26e-02	1.95e-02	-6.27e-03	-4.26e-02	-1.80e-02	3.39e-02
## 344	-3.54e-03	-3.52e-02	2.47e-02	2.08e-02	2.52e-02	1.29e-02	-3.46e-02
## 345	4.98e-04	4.59e-04	5.99e-05	-9.75e-05	-5.22e-04	2.40e-04	5.00e-04
## 346	-2.02e-04	-1.61e-02	-7.70e-03	-2.81e-03	6.91e-03	-1.21e-02	-5.63e-03
## 347	4.37e-02	3.60e-02	-4.73e-02	3.16e-02	-1.11e-02	2.01e-02	3.11e-03
## 348	2.80e-02	2.30e-02	-3.12e-02	-4.57e-03	-4.45e-02	-2.35e-03	3.85e-02

## 349	2.31e-02	1.82e-02	1.75e-02	-7.65e-03	2.80e-03	-1.67e-02	-2.14e-02
## 350	3.62e-03	-2.36e-04	-2.92e-04	1.67e-03	4.04e-03	4.25e-04	-2.85e-03
## 351	-2.69e-04	-3.27e-02	1.46e-02	-7.52e-03	1.04e-02	-4.07e-03	-6.85e-03
## 352	-5.33e-03	-4.77e-04	-1.43e-03	-1.21e-03	2.28e-03	2.43e-03	1.29e-04
## 353	-1.04e-02	6.12e-04	-1.56e-02	-4.38e-03	1.25e-02	-5.00e-03	-2.39e-02
## 354	2.56e-03	-2.16e-02	1.28e-02	-2.40e-02	-3.04e-04	2.24e-02	3.29e-03
## 355	-1.83e-02	1.32e-03	-1.73e-02	-8.25e-03	-1.75e-02	-5.08e-03	1.14e-02
## 356	-2.45e-03	-3.23e-04	7.74e-04	-9.03e-04	-1.76e-03	-7.52e-04	1.60e-03
## 357	2.28e-02	1.72e-02	-2.52e-02	1.61e-02	1.95e-03	-1.83e-02	4.04e-04
## 358	-2.81e-02	-2.55e-02	4.29e-02	-2.59e-02	6.71e-04	-1.73e-02	-2.59e-03
## 359	1.05e-03	1.06e-03	7.38e-04	-5.92e-04	9.98e-05	-8.84e-04	-3.78e-04
## 360	-4.48e-03	-3.83e-04	2.97e-03	4.59e-03	-1.45e-03	-4.45e-03	4.10e-04
## 361	5.76e-03	-5.52e-04	7.34e-03	1.54e-03	-3.26e-03	3.08e-03	1.48e-03
## 362	-4.54e-03	6.85e-04	5.93e-03	-8.73e-03	3.74e-03	-1.28e-03	-3.11e-04
## 363	2.22e-02	2.05e-02	2.38e-02	-1.43e-02	7.51e-03	-1.80e-02	-5.85e-03
## 364	-5.66e-02	-4.94e-02	-7.29e-02	2.68e-02	-2.31e-02	5.51e-03	2.84e-02
## 365	-6.15e-03	-1.68e-04	-9.06e-03	-1.90e-03	9.54e-03	9.24e-03	-2.15e-03
## 366	4.81e-03	-8.59e-04	-9.03e-03	2.47e-03	3.06e-03	2.33e-04	-2.31e-03
## 367	-7.87e-02	-5.76e-02	-2.82e-02	2.33e-02	-1.02e-01	-3.74e-02	1.32e-01
## 368	2.80e-03	2.23e-03	-3.37e-03	2.04e-03	-9.35e-05	-2.37e-03	-6.65e-05
## 369	4.45e-02	-1.28e-03	2.64e-03	-5.12e-02	-2.54e-05	8.70e-03	9.26e-03
## 370	5.09e-02	4.18e-02	4.87e-02	3.88e-02	1.83e-02	3.29e-02	-1.62e-02
## 371	-6.97e-02	-5.56e-02	6.73e-02	1.15e-01	-1.63e-02	-2.94e-02	2.26e-02
## 372	1.74e-02	1.40e-02	7.07e-03	-5.73e-03	5.68e-03	-1.46e-02	-1.23e-03
## 373	2.82e-02	2.20e-02	-3.26e-02	2.07e-02	-1.78e-03	1.23e-02	-1.22e-03
## 374	-3.41e-05	-1.05e-03	-4.65e-04	-1.48e-04	7.82e-04	3.32e-04	-6.86e-04
## 375	1.06e-02	8.34e-03	-1.23e-02	-3.24e-03	-6.22e-03	-1.11e-02	3.99e-03
## 376	1.79e-02	1.46e-02	2.17e-02	1.06e-02	4.73e-03	-5.52e-04	7.51e-04
## 377	6.74e-03	-1.59e-03	9.29e-03	4.94e-04	3.28e-03	1.22e-02	-8.86e-03
## 378	-2.48e-03	-3.68e-04	-3.54e-03	-7.55e-04	9.88e-04	-1.15e-03	-2.50e-04
## 379	-8.03e-02	-8.01e-02	7.85e-04	1.07e-01	3.17e-02	5.61e-02	-2.51e-02
## 380	1.61e-02	1.36e-02	-1.53e-02	-3.27e-03	9.64e-03	-1.21e-02	-1.14e-02
## 381	-1.80e-03	-2.23e-02	-8.96e-03	-4.42e-03	-2.01e-02	-4.05e-03	1.71e-02
## 382	-1.37e-02	-2.65e-03	-2.89e-03	-5.31e-03	8.52e-04	7.07e-03	-1.58e-03
## 383	-6.49e-02	-5.56e-02	1.89e-02	2.62e-02	-4.71e-02	-8.90e-02	3.15e-02
## 384	-2.78e-02	-6.18e-03	2.91e-02	-1.03e-02	2.87e-03	1.42e-02	-8.65e-04
## 385	-1.41e-02	-1.45e-03	9.19e-04	1.28e-02	-3.59e-02	-2.67e-03	3.03e-02
## 386	-4.59e-02	-4.02e-02	-4.70e-02	2.67e-02	-6.40e-03	3.96e-02	4.12e-03
## 387	3.04e-04	-8.98e-03	-7.16e-03	-5.23e-04	8.75e-03	6.11e-03	-2.12e-03
## 388	-8.86e-06	3.57e-03	-2.19e-03	7.06e-04	8.40e-04	-1.48e-03	-4.96e-04
## 389	2.40e-05	-1.85e-02	-1.36e-02	-3.37e-03	5.46e-03	1.49e-02	-4.32e-04
## 390	4.34e-02	4.10e-02	3.00e-02	-1.32e-02	-3.77e-02	2.54e-02	6.12e-02
## 391	7.32e-04	-6.15e-03	1.87e-03	4.20e-03	-9.18e-04	3.08e-03	3.76e-04
## 392	-1.06e-02	-1.98e-03	-5.70e-03	8.80e-03	-1.46e-02	-3.11e-03	2.34e-02
## 393	-3.58e-03	1.35e-03	-4.34e-03	-1.25e-03	-3.74e-03	8.46e-03	-3.55e-03
## 394	3.37e-03	-5.90e-04	1.08e-03	1.55e-03	1.74e-04	6.35e-04	1.15e-03
## 395	-9.73e-03	-2.68e-04	1.72e-02	-2.22e-03	-8.74e-03	1.51e-02	1.17e-02
## 396	-8.69e-03	-1.23e-03	1.79e-03	-3.23e-03	5.16e-03	-9.58e-03	-1.49e-03
## 397	2.10e-03	-2.02e-02	-5.19e-03	-3.13e-03	-1.70e-02	-2.53e-03	1.59e-02
## 398	4.17e-02	3.56e-02	-6.20e-02	3.42e-02	-4.94e-02	-3.91e-02	3.93e-02

## 399	-1.58e-02	4.81e-03	-6.22e-03	-9.90e-03	-1.33e-02	-4.22e-03	2.56e-02
## 400	-1.84e-02	-3.00e-03	-2.57e-02	1.76e-02	1.23e-03	2.25e-02	2.38e-03
## 401	1.36e-03	-1.76e-02	7.61e-03	-6.62e-03	-7.49e-03	4.22e-04	-9.39e-03
## 402	2.34e-04	-7.09e-05	2.74e-04	4.96e-04	2.17e-04	-4.22e-04	-3.91e-04
## 403	2.62e-02	2.04e-02	-1.52e-02	-6.28e-03	-2.29e-04	-5.79e-03	-7.15e-03
## 404	3.43e-03	-5.29e-04	-4.19e-03	7.14e-03	7.12e-03	-6.96e-03	-4.43e-03
## 405	-1.10e-03	-1.49e-02	-4.59e-03	-2.03e-03	-8.84e-03	1.27e-02	9.84e-03
## 406	6.40e-02	8.05e-03	5.96e-02	1.86e-02	-7.37e-02	-8.50e-02	6.15e-02
## 407	-1.10e-02	-3.92e-04	1.18e-02	9.99e-03	-1.16e-02	-2.53e-03	1.99e-02
## 408	-7.98e-03	-1.27e-03	-3.39e-04	-2.88e-03	5.07e-03	-1.03e-02	-1.71e-03
## 409	1.04e-02	-2.09e-03	-2.22e-02	3.90e-03	-1.34e-02	1.40e-02	1.44e-02
## 410	-1.29e-04	-2.72e-02	-1.94e-02	-4.45e-03	-8.11e-03	-6.51e-03	2.10e-02
## 411	1.85e-02	1.49e-02	1.46e-02	3.83e-02	-2.70e-03	-1.81e-02	3.96e-03
## 412	-6.86e-03	2.83e-03	1.63e-02	-6.06e-03	1.84e-03	1.84e-02	-5.59e-03
## 413	-1.76e-03	1.05e-02	6.99e-03	4.86e-04	2.57e-03	2.70e-03	-7.69e-03
## 414	-4.55e-03	4.92e-04	-6.23e-03	6.87e-03	-4.73e-03	-6.20e-03	3.73e-03
## 415	-5.58e-02	-4.78e-02	-1.30e-02	1.65e-02	-3.14e-02	-3.18e-02	2.06e-02
## 416	1.86e-02	1.07e-01	-8.15e-02	-1.35e-01	-1.90e-02	3.83e-03	1.45e-02
## 417	-2.08e-02	5.54e-05	2.24e-02	-7.75e-03	-6.31e-03	-1.75e-02	5.14e-03
## 418	1.35e-02	-7.42e-03	1.73e-02	4.50e-03	2.72e-02	5.01e-03	2.66e-03
## 419	1.63e-03	-2.55e-02	-1.67e-02	-4.03e-03	6.97e-03	-1.78e-02	-7.51e-03
## 420	1.62e-03	-1.44e-04	-8.67e-04	6.70e-04	-5.45e-04	1.53e-03	-3.24e-04
## 421	-4.75e-03	-4.93e-04	-6.28e-03	5.00e-03	1.36e-03	-1.63e-03	-5.52e-03
## 422	6.68e-02	1.39e-02	8.34e-03	-6.08e-02	-3.63e-02	-3.23e-02	1.37e-02
## 423	-5.25e-02	-4.26e-02	-3.10e-02	-4.35e-02	-1.23e-02	6.08e-02	1.11e-02
## 424	-3.62e-03	1.16e-03	-4.96e-04	-1.51e-03	-6.42e-03	6.95e-03	3.86e-03
## 425	2.22e-04	-1.58e-02	5.33e-03	9.93e-03	-2.26e-03	-1.23e-02	4.34e-03
## 426	-6.97e-03	2.62e-03	-1.44e-02	1.25e-02	2.22e-02	-4.78e-03	-2.29e-02
## 427	7.11e-03	6.95e-03	3.87e-03	-3.53e-03	5.52e-03	-6.13e-03	-6.19e-04
## 428	-4.27e-03	3.46e-03	-6.46e-03	1.50e-02	4.17e-03	1.84e-02	-2.09e-03
## 429	1.52e-04	3.48e-03	-2.44e-04	5.71e-04	7.47e-04	2.69e-03	-2.53e-03
## 430	-3.30e-03	4.75e-04	3.71e-03	-1.47e-03	5.97e-03	-9.36e-04	-8.36e-03
## 431	3.49e-02	2.54e-02	2.48e-02	6.47e-02	4.97e-02	-6.92e-03	-4.44e-02
## 432	1.32e-02	1.13e-02	1.20e-02	-4.15e-03	-1.11e-02	-2.24e-03	1.94e-02
## 433	-3.65e-04	-4.00e-03	3.00e-04	2.61e-03	2.44e-03	-9.96e-04	-1.92e-04
## 434	-1.25e-02	7.26e-04	-2.22e-02	1.70e-02	-1.91e-02	-1.75e-02	1.42e-02
## 435	-5.55e-04	1.44e-02	-1.47e-02	3.63e-03	4.98e-04	-7.03e-03	4.09e-03
## 436	4.97e-02	-2.54e-03	-3.56e-02	1.95e-02	-1.08e-01	2.14e-02	1.45e-01
## 437	1.36e-02	1.18e-01	-8.47e-02	-1.52e-01	-7.75e-02	7.15e-02	4.82e-02
## 438	2.08e-02	1.71e-02	7.37e-03	-8.33e-03	1.21e-02	1.07e-02	-1.02e-02
## 439	-1.10e-02	3.08e-03	-5.05e-03	-5.30e-03	-3.14e-02	-1.22e-03	2.45e-02
## 440	6.56e-02	6.71e-03	-3.38e-03	2.44e-02	4.63e-02	1.44e-02	-1.21e-02
## 441	8.74e-04	6.87e-02	-5.60e-02	1.50e-02	2.91e-02	-7.75e-02	3.28e-03
## 442	-1.10e-02	7.83e-04	-1.90e-02	-3.05e-03	2.51e-03	-3.20e-03	3.77e-03
## 443	1.65e-02	1.52e-02	1.89e-02	-8.86e-03	-7.33e-03	-1.30e-02	-1.68e-03
## 444	-6.45e-02	-5.43e-02	9.34e-02	-5.55e-02	-5.99e-02	1.41e-02	6.08e-02
## 445	1.78e-03	2.04e-04	-2.50e-03	6.71e-04	1.91e-03	2.18e-03	-2.83e-03
## 446	1.48e-02	1.08e-02	-5.51e-03	-2.85e-03	1.27e-02	4.04e-03	-9.75e-03
## 447	-5.52e-03	-5.80e-03	-1.64e-03	3.09e-03	-3.03e-03	6.01e-03	7.79e-04
## 448	-3.67e-05	-2.60e-06	-3.74e-05	-9.70e-06	-2.69e-05	-1.80e-05	4.69e-05

## 449	5.33e-03	4.43e-03	-2.34e-03	-1.89e-03	-4.40e-03	-1.57e-03	2.75e-03
## 450	-9.40e-03	-9.02e-04	7.99e-03	-2.45e-03	1.34e-02	-2.18e-03	-1.05e-02
## 451	2.65e-02	2.25e-02	-1.33e-02	-8.18e-03	3.33e-03	-2.44e-02	-4.88e-03
## 452	-1.62e-02	1.99e-03	1.03e-02	-6.08e-03	-4.70e-02	3.54e-02	3.36e-02
## 453	6.77e-03	8.70e-05	-1.79e-03	2.12e-03	6.55e-03	-4.73e-03	-6.43e-03
## 454	5.88e-03	7.12e-02	-1.73e-02	2.06e-02	-3.48e-02	5.24e-03	1.34e-02
## 455	5.77e-05	3.57e-04	-2.72e-04	9.61e-05	2.09e-04	2.37e-04	-2.21e-04
## 456	-6.98e-04	9.84e-03	8.68e-03	1.06e-02	1.07e-03	2.45e-03	9.37e-03
## 457	-2.09e-04	-5.17e-03	2.64e-03	2.69e-03	2.96e-04	-3.08e-03	-2.88e-03
## 458	-3.53e-02	-3.32e-02	5.01e-03	1.36e-02	1.03e-02	-2.56e-02	-5.87e-03
## 459	-1.37e-03	-2.17e-02	6.73e-03	3.41e-02	5.51e-03	2.28e-02	-6.13e-03
## 460	3.24e-02	3.10e-02	2.62e-03	2.23e-02	1.08e-02	-1.88e-03	-1.47e-02
## 461	-2.88e-03	-3.34e-02	2.14e-02	-7.55e-03	-2.33e-02	-5.03e-03	2.32e-02
## 462	2.07e-02	1.61e-02	-1.16e-02	-6.66e-03	-1.85e-02	-3.96e-03	1.28e-02
## 463	4.83e-03	3.76e-03	-1.83e-03	-6.45e-03	-1.08e-03	-4.59e-03	1.18e-03
## 464	-3.28e-02	-2.61e-02	5.16e-03	-6.57e-02	-1.69e-03	2.86e-02	5.99e-03
## 465	4.97e-03	4.07e-03	5.64e-04	-1.85e-03	-8.13e-03	-3.90e-03	6.94e-03
## 466	-1.33e-02	9.42e-04	-1.20e-02	-3.37e-03	4.11e-03	-5.48e-03	3.79e-03
## 467	-1.16e-05	8.12e-06	-3.29e-05	-9.04e-06	2.17e-05	4.30e-05	-4.02e-05
## 468	-3.37e-04	-9.47e-03	-1.24e-03	-2.96e-03	-7.91e-03	3.51e-03	3.84e-03
## 469	2.69e-03	-1.42e-02	-5.18e-03	-9.98e-04	5.57e-04	1.42e-02	5.29e-03
## 470	8.65e-02	-2.02e-02	-2.66e-02	1.67e-01	9.30e-02	1.46e-02	-7.59e-02
## 471	-2.11e-02	-3.89e-03	2.22e-02	-8.33e-03	8.92e-03	-1.88e-02	-6.71e-03
## 472	-1.56e-03	1.59e-05	-5.74e-04	-6.33e-04	4.07e-03	-6.38e-04	-3.59e-03
## 473	-1.05e-02	-3.70e-04	1.49e-03	-4.09e-03	-1.41e-03	7.34e-03	-1.15e-03
## 474	5.97e-04	-3.53e-03	9.56e-04	2.35e-03	6.42e-04	-1.44e-04	-1.89e-03
## 475	-2.08e-02	-1.19e-03	-2.18e-02	-3.70e-02	1.52e-02	-2.79e-02	-8.05e-03
## 476	-1.60e-02	-2.35e-03	3.21e-03	-6.31e-03	-1.94e-03	9.94e-03	-3.72e-03
## 477	-1.89e-02	-3.52e-03	-2.38e-02	1.78e-02	-2.17e-03	9.89e-03	1.35e-03
## 478	-1.01e-02	3.49e-03	-2.06e-02	-8.27e-03	-1.13e-02	9.45e-03	8.85e-03
## 479	-1.10e-02	-1.69e-03	1.29e-02	-3.41e-03	4.28e-03	-2.68e-03	3.64e-04
## 480	4.79e-02	2.47e-03	-2.76e-02	1.82e-02	-2.80e-02	2.96e-03	1.35e-02
## 481	5.85e-02	1.07e-02	1.39e-02	-5.09e-02	2.63e-03	-7.95e-02	-7.98e-04
## 482	-2.59e-02	-3.81e-03	-2.15e-02	2.50e-02	2.66e-02	-2.96e-02	-2.03e-02
## 483	-7.69e-04	9.90e-02	-7.05e-02	1.81e-02	9.23e-02	-1.05e-01	-9.12e-02
## 484	3.22e-02	2.52e-02	1.37e-02	2.46e-02	-3.89e-02	-2.77e-02	4.07e-02
## 485	2.18e-04	1.11e-02	3.94e-04	1.12e-02	2.05e-03	8.37e-03	-3.94e-03
## 486	-2.91e-03	-3.11e-02	5.79e-04	1.90e-02	4.22e-03	-4.82e-03	2.28e-03
## 487	-2.14e-02	-9.82e-04	-7.94e-03	-9.04e-03	4.08e-02	-7.46e-03	-3.63e-02
## 488	2.37e-02	2.01e-02	-1.99e-02	1.98e-02	6.87e-03	1.25e-02	-8.02e-03
## 489	3.11e-04	1.43e-05	2.51e-04	1.35e-04	4.45e-04	3.76e-04	-5.16e-04
## 490	-6.80e-04	-3.15e-02	1.35e-02	1.92e-02	1.08e-02	-2.17e-02	-2.73e-02
## 491	2.91e-02	2.41e-02	2.89e-02	-1.12e-02	1.11e-02	3.81e-02	-1.86e-03
## 492	1.28e-03	-2.30e-02	-6.27e-03	-2.86e-03	-2.54e-03	-3.71e-03	1.37e-03
## 493	-4.01e-03	8.91e-04	6.54e-03	5.56e-03	-8.27e-04	8.12e-03	-3.05e-03
## 494	2.27e-02	1.85e-02	1.35e-02	1.74e-02	-3.19e-03	-2.64e-03	2.60e-03
## 495	-5.03e-03	-3.62e-02	3.50e-02	-9.02e-03	1.63e-02	-4.78e-03	-6.31e-03
## 496	-9.20e-04	1.14e-01	5.60e-02	1.68e-02	-4.82e-02	-1.05e-01	3.24e-02
## 497	2.88e-02	2.39e-02	1.99e-02	-9.76e-03	2.33e-02	-4.57e-03	-2.26e-02
## 498	1.18e-03	-1.74e-04	-1.79e-03	5.49e-04	4.32e-04	1.41e-03	8.33e-04

## 499	-1.79e-02	-4.18e-03	-1.38e-03	-6.94e-03	5.41e-03	-5.07e-03	-3.83e-03
## 500	-2.32e-04	-7.01e-03	5.84e-03	-1.67e-03	1.47e-03	-8.51e-04	-3.09e-03
## 501	-2.13e-02	-4.84e-04	-2.86e-02	-5.63e-03	-5.95e-03	-2.75e-02	-3.73e-03
## 502	-4.05e-03	-2.61e-02	-4.98e-03	-6.40e-03	-6.24e-04	-3.64e-03	-2.85e-04
## 503	7.70e-03	5.82e-03	8.51e-03	-2.50e-03	9.63e-03	7.85e-03	-7.45e-03
## 504	-2.88e-03	-2.07e-05	4.05e-03	-9.19e-04	2.95e-03	-3.88e-03	-6.40e-04
## 505	4.34e-02	-1.43e-03	7.47e-02	1.11e-02	7.46e-02	-8.06e-02	-5.37e-02
## 506	-2.15e-02	-1.88e-03	-5.39e-03	-7.15e-03	7.24e-03	-2.31e-02	-5.19e-03
## 507	8.59e-04	7.19e-05	-1.23e-03	3.57e-04	8.78e-04	2.23e-04	-2.94e-04
## 508	-1.15e-02	-6.14e-04	2.70e-03	-4.35e-03	-9.22e-03	-2.08e-03	6.23e-03
## 509	3.07e-02	2.25e-02	-2.12e-02	4.96e-02	1.25e-02	-2.57e-02	1.60e-04
## 510	1.16e-04	-2.58e-03	2.67e-03	-6.63e-04	1.97e-03	-1.51e-03	-1.66e-03
## 511	-2.59e-03	5.75e-04	-4.40e-03	-1.82e-03	1.35e-04	2.50e-03	-1.34e-03
## 512	-1.71e-03	-4.64e-02	2.87e-02	3.04e-02	4.66e-02	1.90e-02	-4.73e-02
## 513	2.99e-02	2.43e-02	1.32e-02	2.26e-02	1.96e-03	-2.58e-02	6.48e-03
## 514	-5.15e-02	-4.85e-02	-7.23e-02	2.25e-02	3.01e-02	3.73e-03	-3.41e-02
## 515	-4.42e-02	-3.68e-02	2.53e-03	1.07e-02	-3.76e-02	-4.94e-02	2.04e-02
## 516	-8.36e-03	-2.69e-04	8.17e-03	5.90e-03	-3.16e-03	-3.53e-04	3.68e-03
## 517	-1.33e-02	-1.45e-03	8.58e-03	-2.26e-02	6.53e-03	1.88e-02	-2.89e-03
## 518	-1.01e-03	-9.91e-05	4.23e-04	-1.80e-03	-1.25e-03	6.44e-04	8.58e-04
## 519	5.85e-03	4.66e-03	3.21e-03	4.36e-03	-6.18e-03	-4.86e-03	5.90e-03
## 520	-3.51e-03	-2.42e-02	-9.18e-03	3.27e-02	1.20e-02	-1.55e-02	-3.88e-03
## 521	-7.46e-04	8.61e-05	7.42e-04	-1.64e-03	1.10e-03	5.77e-04	-1.18e-03
## 522	-5.55e-04	-1.25e-02	-3.69e-03	-1.39e-02	-9.57e-03	-8.38e-03	7.39e-03
## 523	5.93e-03	4.63e-03	-2.58e-03	-7.17e-03	6.61e-03	-4.73e-03	-6.92e-03
## 524	-6.14e-03	2.56e-03	-9.37e-04	-1.62e-02	1.82e-02	-2.93e-03	-4.39e-03
## 525	1.69e-02	1.36e-02	9.29e-03	1.21e-02	-1.69e-02	8.43e-03	9.13e-03
## 526	-6.95e-02	-5.60e-02	1.44e-03	2.96e-02	8.53e-02	1.12e-02	-6.56e-02
## 527	1.71e-02	1.39e-02	-1.28e-02	1.21e-02	-7.02e-03	-6.09e-03	2.14e-02
## 528	1.92e-03	1.66e-03	5.42e-04	-4.98e-04	-5.13e-04	-1.62e-03	4.67e-04
## 529	5.46e-02	-1.48e-03	-4.92e-02	1.80e-02	-3.88e-02	1.01e-02	1.23e-02
## 530	7.57e-05	6.23e-05	8.42e-05	-9.21e-05	4.96e-05	-5.55e-05	-6.17e-05
## 531	-1.51e-03	-1.73e-05	-1.78e-04	-4.00e-04	-3.36e-03	2.17e-03	2.52e-03
## 532	7.01e-03	5.42e-03	5.46e-03	-2.20e-03	1.98e-04	-5.50e-03	-4.32e-03
## 533	9.91e-03	8.52e-03	8.81e-03	-1.97e-03	-9.34e-04	1.06e-02	6.27e-03
## 534	-1.56e-02	1.41e-03	1.30e-02	1.75e-02	3.66e-03	2.77e-02	-4.25e-03
## 535	1.15e-02	-1.29e-03	-6.19e-03	2.44e-02	-1.92e-04	5.18e-03	-2.46e-03
## 536	8.92e-04	-1.46e-02	-5.10e-03	6.75e-03	-5.61e-03	-1.07e-02	-3.69e-03
## 537	3.88e-02	2.95e-02	-1.21e-02	-2.85e-03	-1.16e-02	3.35e-02	8.85e-03
## 538	-1.80e-03	-1.53e-02	1.36e-02	-3.75e-03	-1.23e-02	1.53e-02	5.21e-03
## 539	1.01e-02	-1.54e-04	-1.58e-03	-8.97e-03	4.61e-03	2.61e-03	7.31e-03
## 540	-3.69e-03	-1.19e-04	3.29e-03	-1.30e-03	5.82e-03	2.72e-03	-5.83e-03
## 541	-4.13e-02	-3.41e-02	3.66e-03	-8.61e-02	-1.59e-02	-2.31e-02	-7.09e-03
## 542	1.09e-03	-3.03e-04	-4.56e-04	2.42e-03	-5.47e-04	-2.08e-03	1.69e-03
## 543	2.99e-02	2.61e-02	-2.29e-02	-1.26e-02	-5.52e-02	-7.12e-03	4.09e-02
## 544	3.54e-02	3.17e-02	2.54e-02	6.41e-02	4.74e-02	-3.90e-03	-3.51e-02
## 545	-5.24e-03	-3.29e-02	1.19e-02	-1.01e-02	-9.23e-03	-6.91e-03	1.05e-02
## 546	3.65e-04	-8.80e-03	-8.86e-03	-1.62e-03	-2.65e-03	-6.90e-03	2.57e-03
## 547	2.53e-02	2.06e-02	-2.84e-02	-5.80e-03	4.33e-03	-5.57e-03	-6.43e-03
## 548	-2.88e-03	8.65e-02	-3.15e-02	9.39e-02	-4.98e-02	1.25e-02	3.21e-02

## 549	-9.92e-03	-9.17e-04	8.05e-03	1.05e-02	3.03e-03	-1.03e-02	-6.96e-03
## 550	2.55e-02	2.03e-02	-2.73e-02	-7.09e-03	-3.97e-03	-7.38e-03	3.19e-03
## 551	-1.89e-02	-2.80e-03	2.66e-02	-7.37e-03	7.63e-03	2.57e-02	-1.95e-03
## 552	-4.41e-03	-3.04e-04	5.09e-03	-7.77e-03	3.62e-04	2.65e-03	-1.47e-04
## 553	7.25e-03	-2.19e-03	7.92e-03	3.50e-03	2.26e-02	1.17e-02	-2.66e-02
## 554	3.84e-02	3.05e-02	-3.37e-02	2.91e-02	5.33e-03	-3.16e-02	-9.30e-04
## 555	2.50e-02	2.13e-02	9.07e-03	2.03e-02	3.76e-03	3.16e-02	-9.73e-03
## 556	-5.76e-05	-1.08e-02	-5.24e-03	-1.72e-03	1.07e-03	3.38e-03	-9.56e-04
## 557	1.24e-03	9.93e-04	-1.08e-03	-3.49e-04	-1.85e-03	-1.21e-03	2.69e-03
## 558	7.86e-04	5.47e-03	-1.04e-03	1.83e-03	1.74e-03	-5.57e-03	-3.97e-03
## 559	-1.46e-02	-1.61e-03	-1.06e-02	-4.84e-03	-5.33e-03	-1.82e-02	5.67e-03
## 560	-2.45e-02	-1.83e-03	-2.98e-02	-7.21e-03	1.33e-02	-8.27e-03	-9.26e-03
## 561	-3.02e-03	-2.77e-02	2.79e-02	-6.88e-03	-1.41e-02	2.47e-02	1.13e-02
## 562	7.85e-03	-6.67e-04	-1.45e-02	-6.77e-03	-1.42e-02	-1.16e-02	1.10e-02
## 563	-7.62e-02	-6.18e-02	4.12e-03	2.45e-02	-4.94e-02	6.93e-02	1.42e-02
## 564	2.08e-02	1.61e-02	2.41e-02	-8.30e-03	-2.06e-03	-1.50e-02	-4.24e-03
## 565	3.35e-02	2.61e-02	2.01e-02	5.19e-02	3.64e-03	-2.05e-04	-6.29e-03
## 566	2.48e-02	1.86e-02	-1.11e-02	-3.73e-02	1.63e-02	-6.76e-03	-1.84e-02
## 567	-7.39e-02	-6.13e-02	1.91e-02	7.82e-02	-9.23e-03	7.11e-03	2.57e-02
## 568	2.43e-03	1.88e-03	9.17e-05	-9.90e-04	-3.69e-04	-2.12e-03	-3.95e-04
## 569	5.39e-02	-1.72e-02	3.85e-02	1.88e-02	2.10e-02	-1.08e-01	7.56e-02
## 570	1.77e-02	1.73e-02	-6.02e-03	1.32e-02	-2.48e-02	2.10e-02	1.74e-02
## 571	5.88e-03	-1.24e-03	-9.43e-03	3.46e-03	-1.35e-02	7.34e-03	1.29e-02
## 572	-8.83e-03	-5.35e-02	-1.07e-02	6.58e-02	4.15e-02	-3.20e-02	-3.78e-02
## 573	-1.34e-02	-3.04e-05	1.23e-03	-6.23e-03	-1.62e-02	-3.09e-03	1.99e-02
## 574	-7.06e-02	-6.13e-02	-7.31e-02	-5.23e-02	4.90e-02	-9.83e-02	-3.10e-02
## 575	9.87e-03	7.71e-03	-2.48e-03	-1.55e-02	8.76e-03	-1.06e-02	-4.17e-03
## 576	4.26e-03	-2.67e-02	-2.36e-02	-2.39e-03	-7.49e-03	2.60e-02	4.25e-03
## 577	-1.13e-02	-1.45e-03	-1.06e-02	-4.29e-03	-1.52e-02	-1.12e-02	1.23e-02
## 578	1.00e-03	-4.50e-02	-1.95e-02	-8.05e-03	1.68e-02	4.08e-02	-9.58e-03
## 579	4.45e-02	4.06e-02	-1.17e-02	-6.12e-02	9.17e-03	5.19e-02	7.01e-03
## 580	3.14e-02	2.48e-02	-2.24e-02	2.40e-02	3.89e-02	3.50e-02	-3.54e-02
## 581	-1.15e-02	-1.77e-03	-2.54e-03	-3.97e-03	3.63e-03	-1.37e-02	-3.08e-03
## 582	-1.22e-02	-2.57e-03	1.30e-02	2.42e-02	1.27e-02	-1.74e-03	-9.46e-03
## 583	-2.10e-04	3.38e-06	3.15e-04	-3.97e-04	-2.84e-04	1.88e-04	2.60e-04
## 584	-7.67e-03	2.99e-04	-1.08e-02	-2.32e-03	-2.25e-03	1.36e-02	-1.69e-03
## 585	6.24e-04	-1.45e-02	-2.20e-03	-5.49e-03	-7.90e-03	-1.06e-02	-6.68e-04
## 586	5.44e-02	1.42e-03	-1.70e-02	9.62e-02	3.02e-02	-8.78e-02	-2.99e-02
## 587	-3.17e-03	-2.02e-02	3.60e-03	1.13e-02	5.61e-03	8.99e-03	-5.87e-03
## 588	4.67e-03	-7.93e-04	4.99e-03	1.02e-03	1.28e-02	1.62e-03	-1.31e-02
## 589	9.43e-03	-4.60e-04	-1.75e-03	3.98e-03	-1.77e-02	4.41e-03	2.00e-02
## 590	4.64e-02	4.17e-03	-6.56e-02	-4.09e-02	6.51e-05	-6.95e-02	4.43e-04
## 591	4.49e-03	3.30e-04	-3.58e-03	2.11e-03	-3.07e-03	1.49e-03	5.06e-03
## 592	-6.76e-02	-5.31e-02	4.46e-04	2.24e-02	4.13e-02	-7.92e-02	-2.38e-02
## 593	-7.56e-03	2.81e-03	1.68e-02	-8.83e-03	1.18e-02	-8.62e-03	-1.33e-02
## 594	5.86e-04	3.31e-06	-9.34e-04	2.22e-04	3.49e-04	-4.52e-04	-3.95e-04
## 595	3.12e-03	-3.36e-05	2.21e-03	6.46e-03	-3.48e-03	1.28e-03	1.16e-03
## 596	-1.09e-01	-9.36e-02	-1.05e-01	5.36e-02	-2.61e-02	-5.24e-02	2.81e-03
## 597	6.76e-03	5.73e-03	6.42e-03	-9.06e-03	2.68e-03	-1.02e-03	-7.24e-04
## 598	-1.36e-02	1.99e-05	1.38e-02	1.44e-02	-3.50e-03	-1.38e-02	1.01e-03



## 599	-7.86e-02	-6.26e-02	-5.90e-02	3.15e-02	-8.87e-02	1.05e-02	8.49e-02
## 600	-8.12e-03	-2.96e-04	1.35e-02	-2.46e-03	3.87e-03	5.56e-03	4.01e-04
## 601	-9.83e-04	-3.03e-06	-1.97e-03	1.33e-03	1.84e-04	-4.78e-04	2.25e-04
## 602	4.24e-02	3.59e-02	2.51e-02	3.31e-02	-2.40e-02	-2.66e-03	2.34e-02
## 603	3.78e-02	3.18e-02	1.54e-02	2.73e-02	2.98e-03	-3.26e-02	-3.30e-03
## 604	3.06e-02	2.28e-02	-3.19e-02	2.33e-02	3.74e-04	-6.50e-03	-3.22e-03
## 605	-8.01e-03	1.44e-03	-1.87e-02	-1.26e-03	-1.29e-02	6.54e-03	1.32e-02
## 606	-3.60e-03	-4.98e-02	3.39e-02	3.09e-02	3.72e-03	4.90e-02	1.29e-05
## 607	3.10e-02	2.48e-02	-4.52e-02	2.56e-02	1.52e-02	-3.00e-02	-9.02e-03
## 608	5.88e-02	-8.99e-03	-9.27e-02	2.37e-02	1.79e-01	9.65e-02	-1.25e-01
## 609	-1.16e-01	-8.73e-02	-9.46e-02	3.55e-02	3.94e-02	7.22e-02	-5.32e-02
## 610	-6.75e-03	2.22e-04	-1.03e-02	-3.90e-03	7.22e-03	1.26e-02	-1.44e-02
## 611	-1.84e-03	-1.93e-02	1.03e-02	1.09e-02	1.17e-02	-1.24e-02	-2.33e-02
## 612	1.62e-03	1.32e-03	2.88e-04	-5.56e-04	-3.24e-04	-3.17e-04	7.49e-05
## 613	-2.45e-02	-1.79e-03	-2.05e-02	-1.03e-02	-3.22e-02	1.64e-02	3.11e-02
## 614	-4.21e-03	-3.58e-04	-4.93e-03	-1.37e-03	4.20e-03	-5.42e-03	-4.33e-03
## 615	6.08e-02	5.35e-03	6.20e-02	-6.05e-02	-2.90e-02	1.44e-02	4.70e-03
## 616	-1.61e-03	-8.45e-05	7.83e-04	-7.26e-04	-2.79e-04	-1.34e-03	2.17e-04
## 617	2.62e-03	-6.88e-04	-9.41e-04	3.99e-04	-4.95e-03	1.61e-03	5.80e-03
## 618	1.78e-02	1.50e-02	9.97e-03	-5.14e-03	-3.03e-03	9.05e-03	1.88e-03
## 619	3.39e-02	2.80e-02	6.75e-03	-5.22e-02	2.36e-02	4.17e-02	-1.73e-02
## 620	-3.46e-05	2.10e-03	-1.29e-03	2.17e-03	1.78e-03	-2.04e-03	-1.81e-03
## 621	5.13e-02	4.18e-02	2.77e-02	3.49e-02	2.15e-02	5.74e-02	-1.20e-02
## 622	-7.03e-03	8.04e-04	3.64e-03	-2.56e-03	3.47e-03	-9.16e-03	1.81e-03
## 623	-1.30e-03	-1.22e-02	-2.93e-03	-2.55e-03	-8.27e-03	-8.69e-03	7.91e-03
## 624	-2.72e-03	-2.62e-02	-7.70e-03	1.68e-02	2.19e-02	-1.76e-02	-1.43e-02
## 625	-1.60e-02	-8.38e-04	-8.36e-03	1.68e-02	1.14e-02	-2.08e-02	6.34e-03
## 626	2.00e-03	-1.95e-02	-4.11e-03	-3.73e-03	2.36e-04	2.07e-02	-3.11e-03
## 627	-8.31e-04	-1.77e-05	-1.03e-03	-1.49e-03	-7.31e-04	-3.48e-04	6.79e-04
## 628	-1.78e-03	3.09e-04	-1.92e-03	2.28e-03	-1.04e-03	-2.51e-03	1.53e-03
## 629	-1.07e-03	-1.34e-02	-7.12e-04	7.24e-03	-4.01e-04	-2.44e-03	-7.02e-04
## 630	-1.30e-03	-1.54e-02	1.45e-03	9.37e-03	1.74e-02	-1.07e-02	-1.60e-02
## 631	-9.68e-03	-1.58e-03	1.12e-02	7.88e-03	-1.20e-02	-7.87e-03	8.51e-03
## 632	-1.40e-02	5.74e-04	6.61e-03	-3.04e-02	1.18e-02	-1.88e-02	-2.43e-03
## 633	4.63e-02	4.11e-02	5.31e-02	-1.42e-02	2.18e-02	-3.25e-02	-6.93e-03
## 634	-1.54e-02	-3.05e-05	-5.47e-03	2.21e-02	4.73e-03	3.03e-02	1.05e-03
## 635	-3.03e-02	-3.68e-03	-4.22e-02	-1.04e-02	-4.64e-02	3.86e-02	3.90e-02
## 636	-4.74e-03	-4.78e-05	-1.10e-03	6.13e-03	1.23e-03	-1.69e-03	-2.68e-03
## 637	7.81e-03	8.01e-02	6.75e-02	1.53e-02	-2.33e-02	-2.00e-02	-3.77e-03
## 638	2.35e-03	1.11e-02	-4.81e-04	3.76e-03	-2.82e-03	7.96e-03	1.23e-03
## 639	-1.64e-02	-2.33e-03	-1.43e-02	1.47e-02	-2.17e-02	1.99e-02	1.87e-02
## 640	-3.76e-03	7.42e-04	9.07e-03	-1.20e-03	5.95e-03	8.70e-03	-4.50e-03
## 641	-1.51e-02	-8.35e-04	1.19e-02	1.09e-02	1.09e-02	-1.29e-02	-6.72e-03
## 642	-1.85e-02	-1.25e-03	1.65e-02	-9.08e-03	3.57e-03	1.39e-02	-3.47e-03
## 643	-1.57e-02	-2.56e-03	-2.47e-02	1.91e-02	7.90e-03	8.95e-03	-7.92e-03
## 644	-6.23e-03	1.00e-03	-1.03e-02	-1.22e-02	-4.11e-03	-9.31e-03	8.13e-03
## 645	-1.45e-02	-3.82e-04	1.23e-02	-6.23e-03	6.94e-03	-1.49e-02	8.91e-04
## 646	1.44e-02	9.72e-02	-4.27e-02	-4.94e-02	-2.72e-02	1.07e-02	1.42e-02
## 647	1.75e-03	-2.62e-05	6.26e-04	5.89e-04	3.88e-03	2.50e-03	-4.14e-03
## 648	-3.47e-03	6.67e-05	-2.58e-03	4.64e-03	1.22e-03	2.33e-03	-2.61e-03

## 649	-1.05e-02	2.00e-04	7.63e-03	-4.36e-03	1.26e-02	-1.16e-02	-5.58e-03
## 650	-1.03e-02	-8.09e-03	3.10e-03	3.11e-03	-9.02e-04	9.26e-03	-1.07e-03
## 651	-5.92e-03	-4.88e-04	7.64e-03	-2.32e-03	-1.63e-03	-5.30e-03	2.42e-03
## 652	-1.13e-02	-1.25e-03	1.67e-02	-4.72e-03	-1.35e-02	-1.32e-02	1.25e-02
## 653	3.77e-02	4.09e-02	5.17e-02	-1.42e-02	-5.68e-02	2.75e-02	3.97e-02
## 654	1.98e-03	-1.04e-02	-1.12e-02	-6.42e-03	1.65e-02	1.18e-02	-1.49e-02
## 655	5.20e-03	3.20e-05	-5.48e-03	-5.74e-03	2.44e-03	5.58e-03	-3.99e-03
## 656	-1.48e-03	-2.37e-02	7.12e-03	-4.40e-03	6.70e-03	9.01e-03	1.78e-04
## 657	-4.91e-02	-3.57e-02	3.58e-02	1.55e-02	-9.49e-03	3.82e-02	1.87e-02
## 658	-1.45e-03	-1.86e-02	2.08e-03	1.14e-02	6.21e-03	-1.25e-02	-7.27e-04
## 659	-2.44e-02	3.51e-03	1.68e-02	-1.33e-02	1.97e-02	5.63e-02	-7.02e-04
## 660	2.12e-02	1.68e-02	-2.67e-02	-6.43e-03	-2.03e-02	-1.93e-02	1.35e-02
## 661	-3.44e-03	8.94e-02	-2.01e-02	-6.87e-02	-1.95e-02	5.51e-02	2.19e-02
## 662	-1.37e-04	-1.80e-02	6.56e-03	-4.16e-03	-1.29e-02	6.91e-03	8.78e-03
## 663	-5.67e-02	-4.87e-02	-3.74e-02	-4.97e-02	3.31e-03	1.04e-02	-5.28e-03
## 664	-8.12e-02	-6.56e-02	2.96e-03	3.00e-02	-1.81e-02	6.72e-02	2.62e-02
## 665	-9.27e-03	1.00e-03	-1.14e-03	-2.89e-03	6.55e-03	-1.28e-02	-1.28e-03
## 666	4.02e-02	3.24e-02	-1.39e-03	2.87e-02	1.92e-02	-2.45e-02	-2.19e-02
## 667	7.21e-02	1.19e-02	-8.63e-02	3.01e-02	9.69e-02	6.96e-03	-8.18e-02
## 668	-3.17e-03	8.40e-02	-1.98e-02	-1.30e-01	-4.04e-02	5.10e-02	5.09e-03
## 669	-4.69e-04	-1.01e-02	-3.16e-03	-1.96e-03	1.95e-03	-2.19e-03	4.01e-05
## 670	4.50e-02	-3.65e-03	3.16e-03	1.37e-02	-1.24e-02	-8.63e-02	-6.91e-03
## 671	2.55e-02	1.96e-02	-1.06e-02	-9.97e-03	-4.23e-04	-4.84e-03	-1.17e-03
## 672	-4.20e-04	-2.60e-02	-1.08e-02	-4.81e-03	-1.65e-03	8.20e-03	1.15e-03
## 673	2.05e-02	1.59e-02	-2.38e-03	1.47e-02	4.32e-04	-3.37e-03	-2.08e-03
## 674	5.36e-02	4.66e-02	-6.28e-02	4.43e-02	1.84e-02	6.01e-02	-9.02e-03
## 675	1.04e-03	-2.16e-02	2.28e-02	1.71e-02	3.07e-03	1.07e-02	1.17e-03
## 676	-1.72e-02	-4.11e-03	1.80e-02	1.24e-02	1.11e-02	-4.40e-03	4.63e-03
## 677	-1.17e-02	6.44e-04	8.27e-03	-4.13e-03	-1.77e-02	-1.26e-02	1.83e-02
## 678	-4.06e-03	7.45e-04	4.30e-03	-2.33e-03	-6.27e-03	3.58e-03	1.16e-02
## 679	-3.52e-03	3.66e-04	4.09e-03	-1.08e-03	2.81e-03	-9.04e-04	8.24e-04
## 680	6.50e-04	-2.09e-04	-7.89e-04	4.52e-04	-4.00e-04	-1.18e-05	4.76e-04
## 681	1.98e-02	1.49e-02	9.27e-04	-9.14e-03	2.91e-02	-1.81e-02	-2.41e-02
## 682	5.39e-03	-1.92e-03	5.19e-03	1.46e-03	-1.55e-02	-1.27e-02	2.13e-02
## 683	-7.79e-03	9.73e-05	-1.25e-03	6.32e-03	1.74e-03	5.06e-03	1.74e-04
## 684	4.77e-02	6.62e-03	-6.50e-02	-3.97e-02	-6.63e-03	-3.43e-02	8.10e-03
## 685	6.92e-05	-3.00e-02	3.51e-04	2.01e-02	-1.91e-02	1.20e-02	6.61e-03
## 686	2.79e-02	2.65e-02	1.35e-02	2.59e-02	-2.86e-02	4.00e-02	2.42e-02
## 687	2.08e-02	1.81e-02	6.69e-03	-3.48e-03	4.41e-02	2.13e-02	-2.64e-02
## 688	4.75e-03	3.72e-03	-2.37e-03	-1.22e-03	3.42e-03	-1.28e-03	3.16e-04
## 689	-3.48e-02	-3.11e-02	-4.75e-02	-2.78e-02	-4.20e-03	-2.60e-02	3.41e-03
## 690	-5.32e-02	-4.08e-02	3.69e-02	2.57e-02	-1.30e-02	-6.98e-02	1.88e-02
## 691	-2.29e-02	-9.98e-04	2.49e-02	-1.04e-02	-5.86e-03	-2.54e-02	6.35e-03
## 692	9.18e-04	-4.02e-02	4.36e-02	-7.78e-03	3.02e-02	2.41e-02	-3.19e-02
## 693	-7.98e-03	-3.48e-04	-1.14e-02	-3.48e-03	9.12e-04	1.26e-02	-2.28e-03
## 694	7.00e-02	2.60e-03	-3.77e-02	-5.99e-02	1.28e-02	7.13e-02	-1.96e-03
## 695	1.99e-02	1.65e-02	1.76e-02	1.56e-02	3.05e-03	-1.71e-02	-9.92e-03
## 696	6.21e-02	9.43e-03	-5.51e-02	-5.16e-02	1.33e-02	1.56e-02	-5.89e-03
## 697	6.92e-03	-2.01e-03	-3.67e-03	2.23e-03	7.22e-03	-5.92e-03	-6.89e-03
## 698	-1.31e-02	-6.66e-04	-1.12e-02	-3.53e-03	2.98e-03	-1.49e-02	-1.92e-03

## 699	-6.24e-03	3.40e-04	-7.07e-03	-2.58e-03	-1.01e-02	-1.76e-03	8.02e-03
## 700	1.07e-02	-2.28e-03	4.91e-03	4.04e-03	-2.07e-02	2.14e-02	2.90e-02
## 701	-1.11e-01	-8.28e-02	-5.55e-02	3.35e-02	-3.62e-02	1.17e-02	1.42e-02
## 702	-2.77e-03	6.73e-03	-4.83e-03	2.72e-03	8.72e-04	7.61e-04	8.09e-04
## 703	-2.78e-04	-2.39e-03	-1.79e-05	-5.37e-04	-2.96e-03	-6.07e-04	2.42e-03
## 704	2.59e-02	2.53e-02	-2.34e-02	-1.22e-02	-9.20e-03	-2.33e-02	2.01e-03
## 705	-7.62e-04	2.95e-02	2.88e-02	3.63e-03	3.47e-02	2.44e-02	-2.68e-02
## 706	1.74e-03	1.43e-03	1.39e-03	-2.01e-03	-2.30e-03	-9.60e-05	1.48e-03
## 707	-8.84e-02	-8.78e-02	9.07e-02	1.07e-01	8.20e-02	-4.00e-02	-5.03e-02
## 708	1.75e-03	-1.04e-02	1.35e-03	-1.36e-02	6.30e-05	-8.85e-04	7.00e-03
## 709	-2.81e-04	1.45e-02	9.42e-03	2.93e-03	4.58e-03	1.22e-02	-6.56e-03
## 710	-4.62e-02	-4.60e-02	-3.86e-02	-2.99e-02	-1.27e-02	-7.32e-02	6.16e-03
## 711	1.18e-02	1.08e-02	9.33e-03	-6.37e-03	7.81e-03	1.33e-06	-2.03e-02
## 712	-4.92e-02	-4.06e-02	4.93e-02	-3.83e-02	-2.07e-03	-6.01e-02	1.56e-03
## 713	2.10e-02	1.59e-02	1.04e-02	-8.20e-03	1.76e-02	-1.85e-02	-1.52e-02
## 714	-7.57e-04	1.46e-02	1.16e-02	2.25e-03	-4.05e-03	1.17e-02	-4.47e-04
## 715	-2.68e-03	2.90e-02	1.94e-03	7.11e-03	-2.91e-02	2.41e-02	3.04e-02
## 716	-2.10e-02	2.30e-03	-1.92e-02	-3.88e-02	-1.71e-02	1.62e-02	9.77e-03
## 717	-3.65e-03	1.73e-02	-1.52e-04	3.24e-03	1.74e-03	1.94e-03	1.63e-02
## 718	-1.45e-02	-1.29e-03	2.26e-02	-5.21e-03	9.03e-03	9.89e-03	-6.51e-03
## 719	-1.13e-02	2.83e-03	1.49e-02	-4.50e-03	-1.48e-02	2.06e-02	1.52e-02
## 720	2.00e-02	1.74e-02	-1.45e-02	-4.59e-03	-1.95e-02	-1.69e-02	1.89e-02
## 721	5.00e-02	7.03e-03	-4.68e-02	2.13e-02	-1.66e-02	9.94e-03	-5.89e-03
## 722	-1.63e-03	9.71e-04	-4.54e-03	-8.15e-04	-2.14e-03	-8.01e-04	3.99e-04
## 723	-1.21e-02	4.41e-04	1.12e-03	-2.96e-03	6.06e-03	-1.62e-03	-6.58e-03
## 724	-2.17e-03	2.21e-02	7.44e-03	2.84e-03	-1.34e-03	5.52e-03	1.07e-02
## 725	-1.88e-03	-1.91e-02	1.17e-02	1.07e-02	-1.45e-02	-2.07e-03	1.22e-02
## 726	2.37e-03	7.98e-02	-6.43e-02	-4.68e-02	-5.12e-02	-3.95e-02	4.88e-02
## 727	-1.47e-02	3.09e-05	-2.06e-02	-3.15e-03	-2.36e-02	2.18e-02	1.79e-02
## 728	1.56e-02	1.59e-02	-9.13e-03	-1.19e-02	-1.15e-02	-1.88e-02	1.17e-02
## 729	7.20e-03	-2.96e-03	-7.59e-03	1.27e-03	-5.68e-03	3.12e-03	4.65e-03
## 730	6.57e-03	-4.48e-02	1.18e-02	-1.86e-02	-4.72e-03	-4.79e-03	1.20e-03
## 731	-1.88e-02	1.16e-03	-4.40e-03	-3.57e-02	6.30e-04	3.13e-02	-2.19e-02
## 732	-4.29e-02	-3.72e-02	5.59e-02	-3.49e-02	-3.26e-03	-5.43e-02	7.28e-03
## 733	-5.57e-02	-4.64e-02	-1.40e-02	2.57e-02	-1.77e-02	-3.55e-02	1.18e-02
## 734	1.04e-02	1.82e-05	-1.61e-02	1.91e-02	5.33e-03	1.08e-02	-5.01e-03
## 735	-3.92e-02	-8.92e-03	-4.38e-02	7.93e-02	4.17e-03	4.83e-02	1.98e-03
## 736	2.73e-02	2.12e-02	-3.19e-02	2.19e-02	-2.07e-02	-8.88e-03	3.67e-02
## 737	1.77e-03	1.44e-03	-7.14e-04	1.18e-03	7.62e-04	-3.05e-04	-1.88e-04
## 738	1.36e-02	1.12e-02	1.10e-02	-4.89e-03	-8.75e-03	-1.84e-03	7.46e-03
## 739	5.55e-04	6.86e-05	1.41e-04	-4.10e-04	8.32e-04	6.44e-04	-6.93e-04
## 740	-8.67e-03	-1.23e-03	7.16e-03	-3.41e-03	-1.37e-02	-8.60e-03	1.13e-02
## 741	6.67e-05	-1.19e-02	7.31e-03	-2.61e-03	8.35e-03	-7.53e-03	-8.78e-03
## 742	9.39e-03	4.38e-04	1.23e-02	4.06e-03	1.28e-02	4.42e-03	-6.16e-04
## 743	-5.73e-03	-2.74e-04	1.94e-03	-2.08e-03	2.99e-03	-7.87e-03	2.06e-04
## 744	2.67e-02	2.26e-02	-6.10e-03	1.83e-02	-1.30e-02	-2.19e-02	1.49e-02
## 745	5.38e-02	4.08e-03	-1.83e-02	-1.31e-01	5.26e-02	-3.90e-02	-7.43e-02
## 746	-2.18e-02	1.49e-03	7.63e-03	-6.58e-03	1.62e-02	1.62e-02	-5.55e-03
## 747	-1.30e-03	1.30e-02	-2.13e-03	-1.98e-02	-1.22e-03	7.27e-04	1.37e-02
## 748	3.37e-02	3.05e-02	3.22e-02	-1.41e-02	1.57e-02	-3.01e-02	1.40e-03

## 749	-4.99e-02	-4.60e-02	3.10e-02	-9.73e-02	3.78e-02	-7.02e-02	-2.87e-02
## 750	6.39e-02	-7.67e-03	-2.71e-02	-1.78e-01	-3.55e-02	8.48e-02	5.56e-02
## 751	-7.32e-04	2.82e-04	7.15e-04	-2.17e-03	-1.14e-03	-1.60e-03	6.40e-04
## 752	2.30e-02	-2.99e-03	3.19e-02	7.74e-03	-1.72e-02	1.00e-02	2.89e-03
## 753	-1.05e-01	-7.69e-02	-8.39e-02	1.20e-01	-1.02e-01	-9.36e-02	1.43e-02
## 754	4.92e-02	4.68e-02	-2.50e-02	-1.68e-02	1.76e-02	5.72e-02	-1.50e-02
## 755	2.25e-02	2.00e-02	-2.11e-02	1.54e-02	3.65e-03	-1.83e-02	-3.09e-03
## 756	9.98e-03	-1.65e-03	1.50e-02	5.70e-03	-2.01e-02	1.70e-02	2.53e-02
## 757	1.57e-02	1.40e-02	-1.73e-03	-5.41e-03	2.20e-02	-3.52e-03	-1.63e-02
## 758	1.26e-03	1.04e-02	2.19e-03	1.08e-02	-1.42e-02	8.39e-03	1.32e-02
## 759	-5.61e-03	2.76e-03	7.90e-04	-1.54e-03	4.56e-03	-9.96e-03	-1.18e-02
## 760	3.16e-02	2.47e-02	3.55e-02	-7.33e-03	1.15e-02	1.66e-02	-5.50e-03
## 761	-6.43e-03	-5.60e-04	7.00e-03	5.87e-03	-5.92e-03	3.12e-03	1.17e-02
## 762	9.83e-04	1.11e-01	4.35e-02	2.06e-02	7.14e-02	2.17e-02	-6.82e-02
## 763	4.56e-02	6.04e-03	-2.12e-02	1.53e-02	-3.03e-03	-5.92e-02	-1.02e-02
## 764	-1.92e-02	7.23e-04	-2.16e-02	-6.34e-03	-2.06e-03	-4.61e-03	1.36e-04
## 765	-9.01e-03	-9.02e-04	-3.12e-03	-3.28e-03	-7.05e-03	5.98e-03	7.44e-03
## 766	-1.09e-02	-5.62e-04	1.20e-02	-3.48e-03	8.37e-03	-1.59e-03	-3.80e-03
## 767	-1.08e-02	2.53e-03	2.96e-03	-3.74e-03	-6.75e-03	-4.41e-03	-4.30e-03
## 768	1.77e-02	1.54e-02	2.06e-02	-7.88e-03	-2.13e-02	1.16e-02	2.04e-02
## 769	-1.21e-02	4.28e-04	-3.37e-03	-5.06e-03	2.30e-02	2.54e-02	-3.08e-02
## 770	-5.62e-03	-3.90e-02	-9.11e-04	2.31e-02	3.14e-03	-4.61e-03	3.68e-03
## 771	3.64e-04	2.60e-02	-1.63e-02	7.46e-03	5.96e-03	1.92e-02	1.44e-02
## 772	-4.97e-03	9.70e-04	8.99e-03	7.00e-03	-1.67e-03	-5.92e-04	-1.59e-03
## 773	-6.50e-03	9.44e-04	3.53e-03	-1.70e-03	1.16e-02	-1.47e-03	-1.68e-03
## 774	1.45e-02	1.19e-02	4.81e-03	1.00e-02	-1.10e-02	-1.18e-02	8.72e-03
## 775	9.65e-03	9.03e-03	8.36e-03	4.41e-03	9.15e-03	1.08e-02	-8.76e-03
## 776	-2.91e-04	-9.88e-03	-3.97e-03	5.91e-03	7.52e-04	-7.66e-03	-1.85e-03
## 777	-4.60e-02	-4.38e-02	-1.63e-02	2.33e-02	-1.16e-02	4.63e-02	1.21e-02
## 778	-5.31e-02	-4.66e-02	-6.78e-02	-4.23e-02	2.33e-02	-7.86e-02	-2.40e-02
## 779	2.62e-03	-1.55e-02	-4.38e-03	1.24e-02	-5.94e-03	1.82e-02	1.47e-02
## 780	6.07e-02	-1.91e-03	-1.16e-01	1.76e-02	-6.86e-02	1.43e-02	-1.56e-02
## 781	-8.78e-02	-8.67e-02	1.83e-02	-6.50e-02	7.84e-02	-1.05e-01	-3.41e-02
## 782	-2.89e-02	-6.41e-03	1.24e-02	2.36e-02	3.01e-02	3.68e-02	-2.39e-02
## 783	-1.23e-02	1.22e-03	-1.02e-02	-4.85e-03	3.11e-02	2.38e-02	-4.11e-02
## 784	4.10e-03	7.51e-05	-5.95e-03	7.48e-03	-6.37e-03	1.34e-03	3.84e-03
## 785	-2.14e-03	-8.94e-05	-4.87e-05	2.11e-03	-1.84e-03	-5.08e-04	2.26e-03
## 786	-5.01e-03	1.50e-03	2.91e-03	-5.04e-03	-4.31e-03	-1.07e-02	9.79e-04
## 787	-1.87e-02	-4.69e-04	-1.78e-02	4.18e-02	2.77e-02	-3.37e-03	-2.89e-02
## 788	8.20e-04	-1.22e-04	-1.06e-04	2.67e-04	-3.28e-04	-6.44e-04	2.25e-04
## 789	7.14e-03	6.09e-03	1.25e-03	-2.17e-03	-8.05e-03	-1.60e-03	9.14e-03
## 790	5.77e-02	-1.21e-02	7.64e-02	-7.56e-02	-3.22e-03	-1.13e-01	-3.03e-02
## 791	3.01e-04	2.20e-03	-1.55e-03	-1.18e-03	3.10e-03	1.33e-03	-2.45e-03
## 792	-9.18e-02	-7.48e-02	6.32e-02	1.80e-02	6.76e-02	-9.33e-02	-1.58e-02
## 793	-6.49e-02	-5.18e-02	-2.73e-02	-4.75e-02	3.14e-02	4.55e-03	-5.05e-02
## 794	-9.60e-04	-3.10e-02	1.59e-02	-6.75e-03	3.63e-03	-3.85e-03	1.08e-04
## 795	2.76e-02	2.33e-02	2.17e-02	-1.08e-02	1.69e-02	-2.17e-02	-2.81e-02
## 796	-3.07e-03	-3.39e-02	-2.43e-02	1.95e-02	9.86e-04	-2.47e-02	-6.01e-03
## 797	7.33e-02	7.20e-03	-1.09e-01	2.90e-02	-9.51e-02	7.77e-02	6.66e-02
## 798	-1.05e-03	1.04e-01	-9.68e-02	2.30e-02	-9.55e-03	5.08e-03	1.39e-02

## 799	-4.15e-02	-3.18e-02	-1.99e-02	-2.96e-02	-9.31e-03	-2.36e-02	3.37e-03
## 800	-5.84e-03	1.00e-05	1.06e-02	-4.87e-03	1.01e-02	1.05e-02	-1.36e-02
## 801	1.21e-02	9.34e-02	-5.72e-02	-5.43e-02	-1.34e-02	-4.33e-02	1.72e-02
## 802	-7.52e-02	-6.67e-02	4.51e-02	1.56e-02	6.58e-02	4.97e-03	-4.11e-02
## 803	-1.15e-02	-4.39e-04	1.80e-02	-3.98e-03	-1.48e-02	9.18e-03	1.08e-02
## 804	-4.26e-03	-3.09e-04	4.04e-03	2.76e-03	2.75e-03	-3.54e-03	-1.60e-03
## 805	-6.95e-03	-6.44e-03	-6.76e-03	9.37e-03	-4.76e-03	4.12e-03	6.47e-03
## 806	5.08e-03	-1.18e-03	-2.64e-04	-6.53e-03	-9.97e-04	1.34e-03	-1.47e-03
## 807	2.24e-02	1.70e-02	-1.20e-02	-5.56e-03	-3.65e-03	9.03e-03	1.60e-03
## 808	8.90e-04	-2.32e-02	-7.57e-03	1.75e-02	-2.14e-02	-3.72e-03	1.02e-02
## 809	-8.28e-06	1.01e-03	7.71e-04	1.42e-04	-5.20e-04	8.03e-04	1.22e-04
## 810	-6.32e-06	8.88e-03	8.41e-03	1.31e-03	1.25e-02	-3.11e-03	-9.19e-03
## 811	3.82e-03	-2.50e-04	-3.77e-03	1.60e-03	-7.28e-03	1.73e-03	1.07e-02
## 812	1.36e-02	1.20e-02	1.78e-02	-6.82e-03	-2.89e-02	9.05e-03	2.25e-02
## 813	-9.76e-03	3.51e-03	-8.62e-03	-3.93e-03	3.51e-03	2.28e-02	-6.46e-03
## 814	4.49e-03	1.18e-01	7.82e-02	4.10e-02	1.33e-01	8.62e-02	-1.16e-01
## 815	6.13e-03	5.17e-03	3.86e-03	3.51e-03	-5.60e-04	-4.53e-04	-4.74e-03
## 816	4.08e-02	3.65e-02	-1.20e-02	3.51e-02	-1.59e-03	2.37e-02	4.78e-03
## 817	1.34e-02	1.29e-02	-2.14e-03	-5.38e-03	3.23e-03	7.35e-03	-5.73e-03
## 818	2.37e-03	2.12e-03	-1.14e-03	-9.92e-04	2.79e-03	-2.19e-03	-2.05e-03
## 819	-1.07e-02	-8.54e-04	3.46e-05	-1.83e-02	7.43e-03	-1.26e-02	-7.03e-03
## 820	-1.98e-02	-7.92e-04	2.36e-03	2.44e-02	1.38e-02	1.54e-02	-9.58e-03
## 821	-2.66e-04	-4.46e-03	1.25e-03	-9.07e-04	-2.36e-03	-2.91e-03	1.42e-03
## 822	1.95e-03	-7.48e-05	-8.77e-04	-2.19e-03	2.91e-03	-1.52e-03	-1.98e-03
## 823	2.10e-02	1.91e-02	-2.63e-02	-4.97e-03	-2.73e-02	-3.34e-03	2.11e-02
## 824	-2.51e-03	-2.64e-02	3.72e-03	-7.08e-03	1.75e-02	1.08e-02	-1.09e-02
## 825	3.39e-02	2.55e-02	1.11e-02	6.59e-02	-2.66e-02	-3.27e-02	4.28e-02
## 826	-2.65e-02	-1.08e-03	-2.00e-02	2.54e-02	-2.40e-02	-2.78e-02	2.70e-02
## 827	-8.31e-04	-5.20e-05	1.38e-03	-1.77e-03	7.27e-04	-2.06e-04	-2.38e-04
## 828	-1.12e-02	-6.09e-02	4.20e-02	3.40e-02	1.86e-02	-3.16e-03	-1.62e-02
## 829	-6.10e-02	-6.33e-02	5.29e-02	4.31e-02	8.52e-03	1.81e-02	-4.13e-03
## 830	-5.55e-02	-4.49e-02	1.42e-02	1.62e-02	-3.26e-02	-6.26e-02	5.61e-02
## 831	-2.71e-02	-3.24e-03	2.89e-02	-1.12e-02	4.90e-02	-2.99e-02	-4.52e-02
## 832	6.20e-02	4.23e-03	1.55e-02	1.71e-02	-2.59e-02	1.41e-02	3.01e-02
## 833	-1.11e-03	-1.57e-02	5.45e-03	8.84e-03	-1.45e-03	-1.06e-02	1.04e-03
## 834	-1.57e-02	-3.62e-03	5.55e-03	1.14e-02	5.26e-03	-3.98e-03	-2.30e-03
## 835	-4.21e-03	3.92e-04	-7.52e-04	-1.54e-03	-3.70e-03	-7.66e-04	1.71e-03
## 836	2.37e-02	1.80e-02	-2.75e-02	-5.44e-03	2.43e-02	-5.75e-03	-2.39e-02
## 837	7.02e-02	3.65e-03	-6.50e-02	-7.69e-02	1.43e-01	-1.07e-01	-1.09e-01
## 838	1.56e-02	1.31e-02	-1.24e-02	-3.83e-03	2.26e-02	-3.68e-03	-2.67e-02
## 839	-5.85e-02	-5.14e-02	-4.04e-02	1.92e-02	2.74e-02	-6.76e-02	-6.82e-03
## 840	2.03e-02	1.68e-02	1.67e-02	-5.17e-03	-9.20e-03	2.33e-02	8.43e-03
## 841	-4.38e-03	-6.28e-04	1.38e-03	3.97e-03	2.04e-03	-1.28e-03	4.77e-04
## 842	2.67e-02	2.06e-02	1.86e-02	-1.26e-02	2.66e-02	1.45e-02	-2.18e-02
## 843	5.14e-02	-2.09e-03	3.37e-02	1.52e-02	-7.23e-03	6.13e-02	1.24e-02
## 844	4.83e-03	1.83e-04	3.74e-03	9.48e-03	-9.55e-03	7.03e-03	7.78e-03
## 845	-9.18e-03	-1.13e-03	-2.76e-03	8.32e-03	1.00e-03	-2.28e-03	-1.05e-03
## 846	-3.83e-02	1.14e-04	-5.00e-02	4.24e-02	-3.64e-02	-4.17e-02	5.31e-02
## 847	-3.72e-05	-5.56e-03	3.14e-03	3.15e-03	-1.16e-03	2.09e-03	2.61e-04
## 848	2.36e-02	2.00e-02	-3.09e-02	1.92e-02	-6.64e-03	2.77e-02	1.16e-02

## 849	-1.23e-02	-2.14e-03	7.93e-03	1.04e-02	4.07e-03	-1.12e-02	-3.58e-03
## 850	-8.26e-02	-6.44e-02	5.07e-02	-1.39e-01	4.38e-02	7.54e-03	-2.68e-02
## 851	-7.89e-04	-1.04e-02	-2.71e-03	-3.09e-03	3.15e-03	1.07e-02	-3.70e-03
## 852	-1.74e-03	9.63e-03	8.36e-03	2.04e-03	4.19e-04	-8.92e-03	6.00e-03
## 853	3.36e-03	4.86e-05	-2.34e-03	8.56e-04	-4.28e-03	4.12e-03	2.06e-03
## 854	3.14e-02	2.47e-02	1.64e-02	-1.56e-02	2.68e-03	4.39e-02	-5.15e-03
## 855	-1.64e-02	3.54e-03	-1.43e-02	-4.47e-03	3.77e-02	-4.38e-03	-3.45e-02
## 856	6.67e-03	3.09e-04	-2.24e-03	-7.59e-03	-2.88e-03	7.88e-03	1.21e-03
## 857	3.72e-02	2.95e-02	-3.36e-02	3.15e-02	1.33e-02	-9.14e-03	-1.54e-02
## 858	-8.51e-02	-7.01e-02	7.45e-02	1.51e-02	-4.09e-02	1.25e-02	2.87e-02
## 859	-5.97e-03	2.84e-02	-1.32e-02	4.74e-03	1.42e-02	5.98e-03	6.35e-03
## 860	-3.77e-02	-5.45e-03	-7.85e-03	8.73e-02	6.98e-03	-3.75e-02	5.20e-03
## 861	5.85e-02	7.06e-03	-3.48e-02	-4.57e-02	-1.85e-02	4.46e-02	2.20e-02
## 862	2.98e-04	-1.89e-04	5.24e-05	3.77e-04	-9.33e-04	-1.14e-03	1.00e-03
## 863	2.33e-02	2.19e-02	-1.07e-02	4.51e-02	1.09e-02	-4.59e-03	-5.01e-03
## 864	-6.66e-03	-1.10e-03	-1.01e-02	-2.00e-03	6.84e-03	-3.12e-03	-5.88e-03
## 865	-1.85e-03	8.99e-02	7.75e-02	-6.50e-02	-4.92e-04	-9.89e-02	-1.04e-02
## 866	8.85e-04	-1.80e-02	4.48e-03	-3.02e-03	-1.52e-02	1.80e-02	1.46e-02
## 867	-1.54e-02	7.04e-04	4.50e-03	-3.91e-03	-2.41e-02	1.25e-02	1.87e-02
## 868	-3.91e-04	5.57e-05	8.45e-04	-1.75e-04	8.24e-04	7.28e-04	-8.76e-04
## 869	-1.63e-02	-3.91e-04	-7.95e-03	2.00e-02	1.72e-02	2.65e-02	-1.17e-02
## 870	5.80e-03	-1.68e-03	-5.79e-03	2.08e-03	4.24e-03	-4.84e-03	4.17e-03
## 871	-1.38e-02	3.16e-03	-2.17e-02	-2.59e-03	3.51e-02	2.72e-02	-3.44e-02
## 872	6.25e-02	3.49e-03	9.02e-02	1.80e-02	6.98e-03	-3.58e-02	2.45e-04
## 873	-1.53e-02	2.46e-03	-1.29e-02	-6.21e-03	-1.80e-02	-1.80e-03	1.99e-02
## 874	-3.36e-04	-1.01e-02	1.26e-03	1.53e-02	5.07e-03	-1.68e-03	-2.90e-03
## 875	-2.85e-04	-6.37e-03	2.53e-03	-1.13e-03	-5.90e-03	-1.22e-03	6.70e-03
## 876	5.94e-03	4.08e-03	6.21e-03	-2.02e-03	-3.22e-04	-5.39e-03	4.12e-03
## 877	1.94e-02	1.52e-02	1.79e-02	-3.25e-02	8.39e-03	-1.90e-02	-8.20e-03
## 878	4.08e-04	1.20e-02	-1.41e-03	2.45e-03	-5.85e-03	9.11e-03	5.98e-03
## 879	1.08e-02	-1.27e-03	5.90e-03	2.02e-02	-6.60e-04	-1.55e-02	1.17e-03
## 880	-6.67e-04	3.02e-03	-1.61e-03	3.33e-03	6.52e-04	2.36e-03	-8.77e-04
## 881	-2.90e-02	-6.43e-03	-1.41e-02	2.57e-02	1.17e-02	1.59e-02	-1.35e-02
## 882	2.89e-02	2.82e-02	2.74e-02	-8.09e-03	-1.45e-02	-1.76e-04	1.41e-02
## 883	-2.25e-03	-4.92e-02	-2.02e-02	6.90e-02	-1.22e-02	4.01e-02	5.77e-03
## 884	-3.37e-03	-6.18e-04	1.08e-03	-1.18e-03	4.10e-03	-4.19e-03	-6.41e-04
## 885	-1.07e-03	-2.16e-02	-1.01e-02	1.31e-02	3.14e-03	5.69e-03	-6.93e-03
## 886	1.61e-02	1.35e-02	3.69e-03	-5.85e-03	-1.32e-02	-1.27e-02	9.52e-03
## 887	-1.27e-02	6.55e-04	2.66e-03	-4.95e-03	1.97e-02	9.83e-03	-8.74e-03
## 888	-4.02e-02	6.25e-04	2.55e-02	-1.74e-02	6.64e-02	6.74e-02	-7.92e-02
## 889	-1.33e-02	1.25e-03	-8.80e-03	1.20e-02	-1.29e-03	-1.40e-02	-2.21e-03
## 890	-3.53e-02	-3.25e-04	5.39e-02	-1.06e-02	1.85e-02	6.13e-02	4.14e-03
## 891	1.10e-04	7.56e-03	-2.85e-03	1.41e-03	-2.50e-03	1.36e-03	-1.97e-03
## 892	1.03e-04	-2.69e-06	1.98e-05	2.23e-04	-5.65e-05	1.72e-04	-4.23e-05
## 893	-4.04e-02	-3.81e-02	5.84e-02	-2.66e-02	1.13e-02	-2.74e-02	-1.12e-02
## 894	-5.50e-05	-1.06e-02	-9.16e-03	-1.79e-03	5.97e-03	-8.01e-03	-6.01e-03
## 895	2.16e-02	-3.21e-03	2.65e-02	6.06e-03	-6.10e-02	4.01e-02	5.51e-02
## 896	-2.15e-02	5.58e-03	-1.43e-02	-7.81e-03	-7.94e-04	4.70e-02	-1.15e-02
## 897	2.92e-02	2.25e-02	-2.66e-02	2.18e-02	8.42e-03	2.82e-02	-1.20e-02
## 898	7.08e-03	5.62e-03	4.07e-03	5.41e-03	-2.29e-03	-5.69e-03	3.28e-03

## 899	8.53e-03	-2.99e-04	1.66e-02	-2.52e-02	2.06e-03	1.27e-02	9.46e-03
## 900	-1.16e-03	1.11e-04	-1.30e-03	1.58e-03	-1.59e-03	-4.75e-04	-1.35e-04
## 901	-8.31e-03	2.02e-05	8.73e-03	-2.45e-03	1.38e-02	5.95e-03	-8.42e-03
## 902	1.37e-02	1.14e-02	-3.08e-03	-1.52e-02	4.13e-03	5.70e-03	-1.58e-03
## 903	-4.94e-04	-1.49e-02	-3.43e-03	-2.46e-03	3.72e-03	-2.93e-03	-1.15e-03
## 904	-8.73e-04	-3.06e-02	-1.62e-02	-7.95e-03	-2.41e-03	-2.22e-02	-3.58e-03
## 905	-3.11e-03	-2.68e-03	1.81e-03	-2.17e-03	2.80e-03	2.94e-03	-4.05e-04
## 906	-3.00e-05	1.54e-02	1.27e-02	-1.06e-02	7.19e-04	1.19e-02	1.59e-02
## 907	-5.68e-03	4.17e-04	-6.88e-03	-1.22e-02	1.86e-03	-2.15e-03	-2.36e-03
## 908	5.52e-03	-1.98e-03	8.08e-03	2.54e-03	7.66e-03	-4.69e-03	-1.07e-03
## 909	-9.90e-06	4.18e-04	2.53e-04	4.48e-04	4.31e-04	9.92e-05	-2.52e-04
## 910	4.34e-02	3.60e-02	1.77e-02	-7.57e-02	2.44e-02	-4.54e-02	-2.85e-02
## 911	-7.52e-03	-1.83e-03	4.74e-03	-3.04e-03	-3.82e-03	-1.39e-03	4.24e-03
## 912	-2.56e-02	-2.22e-02	1.44e-02	-5.74e-02	1.26e-02	2.53e-02	-1.28e-02
## 913	3.76e-02	3.13e-02	1.51e-02	-1.96e-02	2.09e-02	-3.15e-02	-6.02e-03
## 914	-9.29e-02	-8.12e-02	8.16e-02	-1.39e-01	3.87e-02	-4.58e-02	1.53e-02
## 915	1.48e-03	-3.37e-02	3.23e-02	5.24e-03	-9.85e-03	2.38e-02	3.40e-02
## 916	-3.76e-02	-3.01e-02	-3.32e-02	-3.10e-02	-1.03e-02	2.01e-03	1.39e-02
## 917	8.01e-03	3.01e-04	-1.11e-02	-7.19e-03	4.28e-03	-4.60e-03	2.81e-03
## 918	4.44e-02	3.87e-02	-3.55e-02	-1.41e-02	-5.22e-02	5.39e-02	3.66e-02
## 919	3.25e-03	-2.45e-02	-1.69e-02	-1.07e-02	4.17e-03	1.15e-02	-1.38e-02
## 920	-5.32e-04	-4.24e-04	1.90e-05	8.77e-05	-1.07e-04	3.37e-04	8.06e-06
## 921	-1.85e-03	-1.49e-02	7.74e-03	-2.84e-03	-3.83e-03	4.37e-03	8.24e-03
## 922	4.03e-02	4.04e-02	3.51e-02	-1.81e-02	8.54e-03	-1.77e-03	-2.97e-04
## 923	-2.01e-03	6.98e-03	6.47e-03	9.04e-03	2.16e-03	-6.96e-03	2.53e-03
## 924	-1.03e-02	-6.23e-04	4.14e-03	1.05e-02	-5.62e-03	5.99e-03	9.61e-03
## 925	-2.25e-02	-1.36e-03	1.52e-03	-8.11e-03	2.16e-02	-6.12e-03	-1.96e-02
## 926	-2.10e-02	-8.65e-05	-9.27e-03	-3.60e-02	-4.70e-02	1.16e-02	6.53e-02
## 927	3.84e-03	2.89e-03	5.47e-04	2.89e-03	9.67e-04	-4.41e-03	2.18e-04
## 928	2.72e-02	2.36e-02	1.09e-02	-7.10e-03	1.08e-03	1.25e-02	1.20e-02
## 929	6.19e-02	-7.34e-03	2.56e-02	2.09e-02	1.47e-01	9.14e-02	-1.01e-01
## 930	-4.14e-02	-8.21e-03	1.50e-02	2.93e-02	3.66e-02	-3.44e-02	-3.97e-02
## 931	4.29e-02	3.42e-02	4.09e-02	3.46e-02	2.95e-02	-3.75e-03	-1.84e-02
## 932	2.33e-02	2.42e-02	-9.03e-03	-1.07e-02	-1.70e-02	-3.30e-03	1.81e-02
## 933	4.61e-03	9.87e-02	-7.60e-02	2.04e-02	-7.36e-02	1.79e-02	3.76e-02
## 934	2.60e-02	2.24e-02	-1.82e-02	-8.07e-03	6.39e-04	3.08e-02	4.10e-03
## 935	2.36e-02	1.94e-02	2.47e-02	-1.23e-02	-1.30e-03	1.56e-02	1.78e-03
## 936	1.42e-02	9.88e-04	-6.75e-03	2.47e-02	-2.41e-03	1.77e-02	2.35e-03
## 937	3.17e-02	2.57e-02	-1.94e-02	-1.04e-02	-3.10e-02	1.47e-02	2.34e-04
## 938	8.48e-03	-5.26e-02	-4.99e-02	2.48e-02	3.28e-02	1.87e-02	-5.36e-02
## 939	4.32e-03	-1.48e-02	-8.11e-03	-6.55e-04	4.30e-03	-3.29e-03	-5.15e-03
## 940	7.59e-02	-7.81e-05	5.44e-02	3.77e-02	7.87e-02	1.75e-02	-9.18e-02
## 941	-8.25e-02	-6.39e-02	6.23e-02	1.90e-02	-8.22e-02	-8.02e-02	7.51e-02
## 942	-1.60e-02	-2.70e-03	1.17e-02	1.47e-02	-1.43e-02	-1.65e-02	1.70e-02
## 943	7.13e-03	3.20e-04	6.42e-05	1.92e-03	1.65e-02	2.31e-03	-1.28e-02
## 944	1.24e-02	9.92e-03	9.90e-03	-2.40e-03	1.18e-02	1.26e-02	-7.32e-03
## 945	-4.29e-03	2.29e-04	1.23e-03	9.34e-03	1.34e-03	-4.25e-03	-1.11e-03
## 946	-1.27e-02	5.16e-03	2.63e-02	-5.23e-03	2.19e-02	2.96e-02	-3.26e-02
## 947	-6.08e-02	-5.12e-02	-1.53e-02	-3.87e-02	5.34e-02	-3.45e-02	-2.05e-02
## 948	-9.30e-02	-7.21e-02	-3.30e-03	1.31e-02	9.19e-02	-4.31e-02	-5.21e-02

## 949	-2.48e-02	-1.22e-03	-3.32e-02	-7.98e-03	6.72e-03	3.78e-02	-3.44e-02
## 950	2.19e-02	1.77e-02	2.68e-02	-5.35e-03	-1.26e-02	-2.27e-03	1.23e-02
## 951	-5.03e-04	-1.56e-02	1.26e-03	-6.38e-03	-8.28e-03	-1.70e-03	1.23e-03
## 952	2.85e-02	2.84e-02	3.16e-02	5.52e-02	1.56e-02	1.88e-02	7.90e-03
## 953	-5.30e-02	-4.98e-02	-2.33e-02	1.89e-02	-1.28e-02	-3.48e-02	8.69e-03
## 954	5.71e-02	-1.48e-03	5.44e-02	1.37e-02	-3.30e-02	-9.64e-02	-1.23e-02
## 955	-2.44e-03	6.84e-04	3.52e-03	-1.59e-03	4.46e-03	-1.92e-04	-6.59e-03
## 956	3.83e-03	-1.21e-04	-7.06e-04	-1.16e-02	1.86e-03	1.41e-03	3.77e-03
## 957	1.74e-04	1.38e-04	-2.01e-04	-4.56e-05	2.85e-05	3.09e-05	-6.92e-05
## 958	-3.89e-05	-1.85e-03	-4.11e-04	-6.48e-04	1.56e-03	-3.08e-04	-1.24e-03
## 959	-6.97e-04	1.57e-02	1.21e-02	2.34e-03	1.58e-02	1.26e-02	-9.31e-03
## 960	7.32e-03	5.41e-03	-8.93e-03	-1.55e-03	-4.83e-03	-6.67e-03	4.71e-03
## 961	-4.21e-04	-1.09e-02	1.96e-04	-1.49e-03	-8.68e-03	1.10e-02	9.15e-03
## 962	4.49e-02	4.14e-02	-4.16e-02	-1.74e-02	-4.55e-02	-4.15e-03	4.70e-02
## 963	3.61e-04	-3.79e-03	-2.30e-03	-1.44e-03	-2.78e-04	1.92e-03	1.91e-03
## 964	1.29e-04	-2.50e-03	3.01e-03	-3.70e-04	8.32e-04	2.58e-03	-9.09e-04
## 965	3.08e-02	2.33e-02	6.98e-04	-9.53e-03	1.35e-03	3.04e-02	-7.56e-04
## 966	-8.28e-03	-1.05e-03	-3.01e-04	-2.86e-03	9.70e-03	-9.65e-03	-7.26e-03
## 967	4.94e-02	-9.11e-03	-4.71e-02	-7.68e-02	-1.40e-02	-9.46e-02	-3.87e-02
## 968	-7.03e-03	-9.97e-04	-6.86e-03	-2.33e-03	2.12e-03	3.90e-03	5.37e-04
## 969	-1.32e-02	-2.58e-04	-9.04e-03	-2.16e-02	-8.20e-03	1.89e-02	1.59e-02
## 970	-1.53e-02	-1.29e-02	-3.82e-03	2.49e-03	1.68e-02	1.05e-02	-1.12e-02
## 971	-1.00e-03	-5.71e-05	-1.55e-03	-1.80e-03	3.25e-04	-1.37e-03	-5.38e-05
## 972	1.06e-02	9.25e-03	-5.86e-03	7.76e-03	-8.10e-03	4.43e-03	8.10e-03
## 973	4.56e-03	4.68e-03	-7.67e-03	-2.68e-03	-1.61e-03	-5.18e-03	1.52e-03
## 974	1.02e-03	1.76e-05	-1.44e-04	-9.52e-04	6.09e-04	1.07e-03	-7.59e-04
## 975	2.43e-02	2.24e-02	1.87e-02	5.32e-02	-2.22e-02	-2.17e-02	2.05e-02
## 976	-1.02e-01	-8.37e-02	5.30e-02	1.13e-01	5.08e-02	1.34e-02	-2.86e-02
## 977	-4.15e-03	4.38e-03	-8.14e-04	-3.34e-03	-4.81e-03	6.80e-03	1.06e-02
## 978	9.34e-04	-2.12e-02	-1.67e-02	1.30e-02	3.89e-03	-2.51e-03	5.07e-04
## 979	-2.17e-03	9.51e-03	7.07e-03	1.04e-02	-1.58e-03	2.72e-03	-7.40e-04
## 980	-1.10e-02	-1.45e-03	-1.18e-02	-3.69e-03	-4.14e-03	-6.15e-03	4.52e-03
## 981	-6.43e-02	-5.39e-02	7.88e-02	-5.49e-02	-2.87e-02	6.78e-02	2.60e-02
## 982	5.03e-02	1.50e-03	7.66e-03	1.87e-02	6.21e-02	5.99e-03	-4.32e-02
## 983	-1.11e-04	-1.96e-03	5.57e-04	-2.05e-03	8.18e-04	-3.22e-04	-6.78e-04
## 984	-4.87e-03	-3.82e-03	6.25e-03	1.20e-03	-2.30e-03	5.06e-03	1.39e-03
## 985	-2.15e-02	-1.63e-03	2.05e-02	2.24e-02	-2.07e-02	3.24e-02	1.45e-02
## 986	5.71e-02	7.20e-03	8.85e-02	2.06e-02	4.62e-03	2.58e-02	-1.83e-03
## 987	-2.07e-02	1.56e-03	2.97e-02	2.91e-02	-8.60e-04	-2.54e-02	-3.22e-03
## 988	-1.09e-02	6.59e-04	9.49e-03	-3.94e-03	-2.46e-03	8.70e-03	-3.81e-03
## 989	5.86e-04	-3.60e-02	-1.27e-02	-6.78e-03	-7.39e-03	-2.61e-02	9.88e-03
## 990	-1.52e-02	1.35e-03	1.21e-02	-5.31e-03	1.45e-02	-2.58e-03	-6.42e-03
## 991	-6.22e-03	-1.78e-04	1.87e-03	-2.53e-03	1.45e-02	-7.26e-03	-1.77e-02
## 992	-2.95e-02	-1.52e-03	3.88e-02	-1.07e-02	-4.67e-02	2.16e-02	3.73e-02
## 993	5.68e-03	-1.89e-03	1.43e-03	2.84e-03	-9.36e-04	1.26e-03	5.55e-03
## 994	-9.89e-03	5.77e-04	-1.35e-02	-1.96e-02	-4.35e-03	-4.11e-03	-2.54e-04
## 995	-1.48e-02	3.10e-03	6.36e-03	-2.98e-02	-1.68e-02	-3.62e-03	1.01e-02
## 996	5.02e-02	4.51e-02	-1.22e-02	3.55e-02	-3.39e-02	-2.53e-03	6.72e-02
## 997	-2.96e-02	-5.71e-03	-4.41e-02	2.42e-02	-1.39e-02	-3.31e-02	7.16e-03
## 998	-4.69e-02	-3.87e-02	-2.74e-02	2.45e-02	-2.94e-02	1.64e-02	6.04e-03



## 999	2.92e-02	2.34e-02	3.62e-02	2.13e-02	3.22e-02	-2.62e-02	-2.71e-02
## 1000	3.07e-03	-8.53e-04	-7.63e-03	1.61e-03	-4.26e-03	-6.70e-03	7.17e-03
## 1001	-8.38e-03	5.62e-04	8.68e-03	-2.12e-03	1.05e-02	1.56e-02	-4.14e-03
## 1002	2.80e-02	2.13e-02	-2.17e-02	-5.23e-03	2.06e-02	-5.06e-03	-1.49e-02
## 1003	2.34e-02	1.99e-02	1.70e-03	-9.54e-03	-1.92e-02	-2.23e-02	4.44e-03
## 1004	-1.20e-02	-1.57e-03	-7.34e-03	-3.63e-03	8.51e-03	-1.38e-02	-4.54e-03
## 1005	1.40e-02	1.15e-02	-1.54e-02	-1.69e-02	1.29e-02	1.34e-02	-9.66e-03
## 1006	2.95e-02	2.49e-02	1.54e-02	2.42e-02	-3.99e-02	3.69e-02	2.51e-02
## 1007	-7.46e-02	-6.01e-02	6.18e-02	-5.70e-02	3.64e-02	-7.52e-02	-7.15e-02
## 1008	-5.84e-02	-4.98e-02	5.84e-02	2.02e-02	1.01e-01	5.56e-02	-6.95e-02
## 1009	5.30e-04	4.07e-04	1.38e-04	-2.07e-04	4.90e-04	-3.63e-04	-5.35e-04
## 1010	4.85e-04	-2.86e-04	3.68e-04	2.28e-04	3.17e-05	-1.33e-03	5.33e-04
## 1011	-7.19e-03	3.05e-02	1.54e-02	3.95e-02	4.53e-05	2.86e-02	-4.67e-03
## 1012	5.15e-02	4.21e-02	-4.87e-02	-1.31e-02	5.81e-02	2.13e-02	-5.64e-02
## 1013	-4.44e-02	-3.93e-02	-2.72e-02	-1.01e-01	1.92e-02	1.91e-03	-1.93e-02
## 1014	-4.78e-04	-8.18e-03	-1.61e-03	-1.55e-03	-5.39e-03	7.24e-03	4.96e-03
## 1015	2.83e-02	2.20e-02	-2.65e-02	-1.05e-02	-5.66e-04	1.09e-02	-3.42e-02
## 1016	-1.80e-03	-1.85e-02	-1.30e-02	-3.13e-03	1.03e-02	1.51e-02	-4.32e-03
## 1017	-5.25e-02	-4.23e-02	-7.74e-02	-4.13e-02	2.13e-02	-3.60e-02	-2.54e-02
## 1018	-1.49e-02	-9.90e-04	-1.43e-02	-3.68e-03	2.44e-03	2.06e-02	3.54e-03
## 1019	2.10e-02	1.68e-02	2.35e-02	1.69e-02	-3.81e-03	-1.93e-02	2.99e-03
## 1020	-1.90e-02	-1.60e-03	-2.78e-02	2.15e-02	-9.30e-03	2.65e-02	9.53e-03
## 1021	-4.20e-03	-1.67e-04	-1.14e-03	-1.54e-03	6.77e-03	-5.87e-03	-1.50e-03
## 1022	5.83e-02	1.19e-02	-6.19e-03	-5.20e-02	-7.86e-02	-7.43e-02	6.76e-02
## 1023	5.94e-03	5.59e-03	-3.20e-03	-7.04e-03	4.39e-03	-5.45e-04	-3.52e-03
## 1024	-4.83e-03	1.42e-03	-7.37e-03	-1.60e-03	-2.96e-05	1.43e-02	2.15e-03
## 1025	5.38e-03	-1.73e-03	7.57e-03	5.00e-03	-1.42e-02	2.87e-03	1.74e-02
## 1026	-1.64e-02	4.69e-04	1.66e-02	-5.43e-03	-2.40e-02	-1.37e-03	2.07e-02
## 1027	1.85e-03	1.26e-04	3.06e-03	5.98e-04	-3.00e-03	2.60e-03	4.14e-03
## 1028	-1.02e-02	-1.27e-03	-9.62e-03	1.03e-02	8.31e-03	5.65e-03	-5.30e-03
## 1029	-1.37e-02	2.65e-03	-1.71e-02	-2.76e-02	2.80e-03	-4.99e-03	3.55e-03
## 1030	7.95e-04	2.13e-02	1.20e-02	4.88e-03	1.48e-02	5.12e-03	-1.84e-02
## 1031	-3.70e-04	-8.34e-03	7.25e-03	-2.38e-03	9.72e-05	-5.50e-03	-2.20e-03
## 1032	1.78e-04	1.42e-01	-5.86e-02	3.73e-02	-1.81e-02	1.13e-01	-4.87e-02
## 1033	-4.90e-02	-4.74e-02	-2.91e-02	-3.04e-02	-5.28e-02	-7.13e-02	2.70e-02
## 1034	-1.08e-01	-9.64e-02	1.30e-01	1.20e-01	1.64e-01	-4.73e-02	-1.22e-01
## 1035	4.00e-03	-3.83e-02	-3.35e-02	6.80e-02	9.99e-03	3.62e-02	-5.29e-03
## 1036	1.07e-02	8.82e-03	-1.03e-02	-1.29e-02	1.53e-03	4.11e-03	1.84e-03
## 1037	5.17e-02	5.33e-03	6.61e-02	1.49e-02	-4.89e-02	5.55e-02	3.98e-02
## 1038	-1.26e-02	2.30e-03	1.14e-02	-5.14e-03	-1.83e-02	-1.85e-02	5.71e-03
## 1039	7.34e-04	-5.38e-03	-4.73e-03	-4.56e-04	-1.36e-03	4.98e-03	2.65e-03
## 1040	5.93e-02	4.17e-03	-5.73e-02	2.00e-02	-2.82e-02	1.33e-02	2.84e-02
## 1041	3.85e-04	9.73e-03	-2.77e-03	-5.99e-03	-1.36e-02	-3.52e-03	1.73e-02
## 1042	2.00e-02	1.60e-02	-1.23e-02	-5.97e-03	1.43e-02	2.14e-02	-2.28e-02
## 1043	1.27e-02	1.19e-02	-1.12e-02	8.90e-03	9.60e-03	-2.00e-03	-6.81e-03
## 1044	-5.75e-03	-4.74e-03	-4.97e-03	6.93e-03	-5.36e-03	-1.83e-03	4.44e-03
## 1045	-3.37e-03	6.47e-04	-5.94e-03	-7.31e-04	1.89e-03	-1.73e-03	1.13e-03
## 1046	4.81e-05	1.50e-03	4.47e-05	2.77e-04	-4.44e-04	3.33e-04	-3.15e-05
## 1047	2.70e-02	2.20e-02	1.71e-02	-4.76e-03	2.01e-02	1.32e-02	-1.75e-02
## 1048	-1.52e-02	-9.29e-04	7.81e-03	-4.62e-03	-1.77e-02	2.18e-02	1.33e-02

## 1049	1.66e-02	1.39e-02	-1.07e-02	3.20e-02	-7.77e-03	1.86e-02	1.28e-02
## 1050	-5.68e-03	6.02e-05	-9.71e-03	-1.54e-03	-6.61e-03	-2.18e-03	3.34e-03
## 1051	2.70e-02	2.10e-02	-6.97e-03	-6.10e-03	3.19e-02	-2.13e-02	-1.97e-02
## 1052	-1.89e-02	-1.17e-03	-1.05e-02	-5.54e-03	-1.91e-02	-4.28e-03	2.04e-02
## 1053	-7.35e-04	-6.89e-03	2.36e-04	-2.13e-03	-2.03e-03	-7.48e-04	2.22e-03
## 1054	7.02e-03	-1.73e-03	1.52e-02	1.94e-02	8.94e-03	3.70e-03	-1.11e-02
## 1055	-1.76e-03	1.75e-02	-2.02e-02	2.45e-03	-6.30e-03	-7.69e-03	-2.24e-03
## 1056	2.27e-03	-2.18e-02	-2.78e-03	-4.39e-03	1.34e-02	2.22e-02	-3.20e-02
## 1057	6.64e-02	4.10e-03	7.70e-02	1.77e-02	-3.82e-02	1.85e-02	2.32e-02
## 1058	-4.89e-02	-4.34e-02	-3.14e-02	2.23e-02	2.07e-02	-3.51e-02	-7.97e-03
## 1059	-5.24e-02	-3.88e-02	-4.74e-02	-3.33e-02	2.11e-02	-2.76e-02	-4.52e-02
## 1060	-5.37e-03	-5.26e-04	-2.44e-03	-1.81e-03	7.96e-04	-1.70e-03	-1.13e-03
## 1061	-2.74e-02	-2.52e-02	2.56e-02	1.05e-02	-1.50e-02	-3.82e-02	1.50e-02
## 1062	-8.67e-03	9.10e-05	-4.19e-03	-3.88e-03	7.28e-05	4.72e-03	1.71e-05
## 1063	4.93e-02	4.26e-02	-3.60e-02	-1.11e-02	-2.03e-02	-4.61e-03	4.99e-03
## 1064	4.86e-04	-8.07e-03	-2.62e-03	5.51e-03	7.81e-03	-1.43e-03	-8.85e-03
## 1065	-1.02e-04	-7.86e-04	3.84e-04	-2.08e-04	1.06e-04	-1.28e-04	7.89e-05
## 1066	-7.80e-03	2.04e-03	1.92e-02	-2.55e-03	-1.72e-02	2.11e-04	1.30e-02
## 1067	-1.60e-02	-5.29e-04	-9.93e-03	1.99e-02	2.22e-02	1.06e-02	-1.52e-02
## 1068	-1.57e-02	1.58e-03	-1.09e-02	-5.73e-03	-2.11e-02	-4.15e-03	2.30e-02
## 1069	-3.93e-02	-3.79e-02	-5.61e-02	-3.65e-02	-2.20e-02	-6.93e-02	4.59e-03
## 1070	-1.09e-03	-3.55e-02	-5.64e-03	2.43e-02	-1.24e-02	-3.32e-03	1.18e-02
## 1071	3.21e-02	2.92e-02	1.40e-02	-1.31e-02	-2.97e-02	4.68e-02	1.87e-02
## 1072	-9.93e-03	-1.11e-03	1.23e-02	1.06e-02	-1.08e-02	1.72e-02	1.10e-02
## 1073	-1.48e-02	-1.85e-03	-1.93e-02	-4.21e-03	9.56e-03	6.59e-03	-8.68e-03
## 1074	-1.78e-02	-8.23e-04	-2.83e-02	5.23e-02	3.16e-03	1.11e-02	-9.10e-03
## 1075	3.20e-02	2.79e-02	-7.11e-03	-1.45e-02	9.23e-04	-8.09e-03	4.91e-03
## 1076	8.73e-03	6.64e-03	-4.91e-04	-4.45e-03	-6.21e-04	-7.30e-03	-4.79e-03
## 1077	-3.93e-03	2.14e-02	1.61e-02	1.82e-03	-1.35e-02	1.87e-02	2.09e-02
## 1078	-6.42e-02	-5.24e-02	8.18e-02	-5.66e-02	-2.47e-02	-7.38e-02	-7.36e-03
## 1079	-3.97e-03	-4.68e-04	7.43e-03	-1.72e-03	5.27e-03	5.32e-03	-7.16e-03
## 1080	2.38e-02	1.96e-02	2.86e-02	-7.61e-03	-3.22e-02	1.44e-02	1.97e-02
## 1081	2.83e-03	-5.40e-04	-3.14e-03	2.35e-03	-3.65e-03	-2.73e-03	5.60e-03
## 1082	3.04e-02	2.43e-02	-2.64e-02	1.90e-02	-3.17e-02	1.51e-02	1.99e-02
## 1083	3.22e-02	2.56e-02	-4.10e-02	-1.11e-02	-7.03e-02	-8.36e-03	6.74e-02
## 1084	-8.51e-02	-7.14e-02	5.18e-02	2.40e-02	-2.43e-02	-9.06e-02	-3.49e-02
## 1085	-1.58e-02	2.69e-04	-3.17e-03	1.81e-02	-4.41e-02	-3.21e-03	3.67e-02
## 1086	-6.04e-02	-5.25e-02	-8.13e-02	2.59e-02	-8.71e-02	1.06e-02	7.64e-02
## 1087	6.12e-02	5.25e-02	-6.17e-02	9.41e-02	6.87e-03	-5.24e-02	1.54e-02
## 1088	-1.37e-02	7.13e-04	1.05e-02	-5.84e-03	1.08e-02	-2.48e-03	4.02e-03
## 1089	-1.03e-02	2.83e-05	9.91e-04	1.37e-02	2.02e-02	8.08e-03	-2.08e-02
## 1090	-2.34e-03	-1.60e-04	2.44e-03	-8.70e-04	-2.77e-03	-2.89e-03	3.16e-03
## 1091	-1.64e-02	-2.26e-03	2.10e-02	3.74e-02	3.24e-02	2.34e-02	-3.88e-02
## 1092	2.98e-02	2.49e-02	2.37e-02	2.18e-02	-2.86e-02	1.81e-02	2.18e-02
## 1093	1.54e-03	-6.33e-05	3.07e-03	4.65e-04	-1.07e-03	2.69e-03	1.24e-04
## 1094	-2.62e-02	-1.26e-03	2.48e-02	-1.46e-02	2.55e-04	-2.64e-02	1.07e-02
## 1095	-1.40e-02	1.80e-03	2.30e-02	-7.52e-03	-1.12e-02	3.16e-02	1.28e-02
## 1096	-1.67e-02	2.12e-03	-1.30e-02	-7.61e-03	-4.23e-03	-6.50e-03	1.57e-02
## 1097	2.84e-02	2.35e-02	2.31e-02	-1.41e-02	1.33e-02	-1.82e-02	-2.59e-02
## 1098	-5.49e-03	-4.55e-02	1.32e-02	2.45e-02	5.60e-03	3.74e-02	-4.25e-03

## 1099	-1.87e-04	-6.65e-03	-2.33e-03	-2.03e-03	-6.43e-03	-4.96e-03	6.24e-03
## 1100	8.10e-04	-6.57e-03	-7.23e-05	-1.01e-03	-9.39e-03	2.57e-03	7.25e-03
## 1101	-1.45e-02	-9.34e-04	-2.80e-02	2.18e-02	7.70e-03	-5.82e-03	-1.39e-03
## 1102	-9.81e-03	-1.20e-03	-5.70e-04	8.81e-03	-1.81e-03	4.51e-03	3.38e-03
## 1103	3.66e-02	2.98e-02	-7.60e-03	-1.10e-02	1.09e-02	-2.77e-02	-2.85e-03
## 1104	-2.79e-04	2.42e-03	2.18e-03	3.16e-04	-8.70e-04	8.52e-04	6.58e-05
## 1105	-6.82e-03	-8.40e-04	-7.61e-03	-1.19e-02	1.24e-03	-2.59e-03	1.99e-04
## 1106	-1.91e-02	1.22e-03	2.75e-02	-5.82e-03	-5.65e-03	3.72e-02	-6.71e-04
## 1107	5.91e-02	3.97e-03	-1.45e-02	-7.01e-02	-1.34e-01	-9.50e-02	1.52e-01
## 1108	-1.02e-02	1.24e-04	-2.27e-03	-3.47e-03	-7.62e-04	-2.27e-03	4.02e-04
## 1109	2.85e-02	2.31e-02	-1.98e-03	2.21e-02	4.01e-03	3.53e-02	-3.11e-03
## 1110	-1.03e-02	4.50e-04	1.96e-02	-3.78e-03	-1.23e-02	8.36e-03	3.99e-03
## 1111	5.30e-03	7.68e-02	-1.41e-03	1.59e-02	6.35e-03	-6.83e-02	-4.55e-03
## 1112	9.22e-02	-5.40e-03	5.44e-02	-7.26e-02	-5.05e-02	1.08e-01	-7.98e-02
## 1113	7.25e-02	-5.12e-04	5.15e-02	1.76e-02	8.30e-02	-4.33e-02	-6.91e-02
## 1114	-5.78e-04	1.30e-04	1.11e-04	-2.72e-04	-8.36e-04	9.92e-04	8.81e-04
## 1115	-1.20e-02	1.20e-03	5.37e-03	-3.04e-03	1.04e-02	2.36e-02	-4.25e-04
## 1116	3.43e-02	2.72e-02	4.15e-02	-1.30e-02	1.25e-02	-2.60e-02	-1.72e-02
## 1117	8.02e-03	-1.13e-03	-3.08e-03	-7.47e-03	-5.82e-03	1.05e-02	6.24e-03
## 1118	-4.49e-03	-1.68e-04	4.78e-03	-1.75e-03	-3.56e-03	-4.91e-03	3.29e-03
## 1119	-1.35e-02	-3.25e-03	-1.37e-02	-5.30e-03	-3.20e-03	-1.49e-02	3.02e-03
## 1120	-3.16e-03	5.95e-04	-2.58e-03	-1.00e-03	1.17e-02	2.54e-03	-1.35e-02
## 1121	2.62e-02	2.07e-02	-2.14e-02	-6.96e-03	-2.54e-02	1.01e-02	2.43e-02
## 1122	1.85e-02	1.56e-02	-4.67e-03	-6.59e-03	4.54e-03	-4.61e-03	-3.97e-04
## 1123	5.02e-02	4.14e-02	-2.79e-02	-1.12e-02	6.14e-02	5.20e-02	-4.76e-02
## 1124	4.37e-02	3.67e-02	2.61e-02	-1.50e-02	-4.53e-03	-5.26e-03	1.87e-03
## 1125	6.75e-03	-1.20e-03	-1.17e-02	1.48e-02	1.46e-02	1.95e-03	-1.04e-02
## 1126	-2.12e-04	-1.13e-02	-7.12e-03	-2.47e-03	8.89e-03	-7.83e-03	-1.26e-02
## 1127	-1.06e-02	3.72e-04	3.46e-03	-5.22e-03	-5.85e-03	-3.39e-03	-5.07e-03
## 1128	-2.39e-03	-3.02e-04	2.30e-03	-3.99e-03	2.78e-04	-6.17e-04	2.68e-04
## 1129	-2.79e-02	5.18e-03	-1.38e-02	-5.20e-02	-2.07e-02	5.25e-02	1.62e-02
## 1130	7.76e-04	6.22e-04	-8.76e-04	5.17e-04	-2.96e-04	-6.80e-04	-4.15e-04
## 1131	-4.46e-03	1.34e-04	6.14e-03	-9.78e-03	-8.73e-03	-1.36e-03	9.74e-03
## 1132	-2.04e-02	-3.04e-03	-2.64e-02	2.01e-02	-1.49e-02	-6.71e-03	1.21e-02
## 1133	-7.09e-03	-1.73e-04	-6.45e-03	-2.58e-03	-9.69e-03	1.17e-02	7.01e-03
## 1134	-6.79e-05	3.23e-04	1.65e-04	3.63e-04	-5.00e-04	-1.11e-04	4.44e-04
## 1135	-9.27e-03	-7.73e-04	1.28e-03	1.09e-02	2.43e-03	-1.03e-02	-3.74e-03
## 1136	2.16e-03	2.09e-03	1.05e-03	-3.23e-03	2.67e-03	2.53e-03	-3.33e-03
## 1137	4.91e-02	6.42e-03	-3.98e-02	2.06e-02	-1.01e-02	-3.25e-02	1.29e-02
## 1138	-4.38e-02	-2.08e-03	-3.37e-02	3.22e-02	2.40e-02	-9.26e-03	-1.88e-02
## 1139	-2.15e-02	4.30e-03	3.06e-02	-1.28e-02	-4.19e-02	-2.48e-03	5.96e-02
## 1140	-6.07e-04	-8.38e-05	9.29e-04	-1.06e-03	5.62e-04	-6.48e-04	-3.92e-04
## 1141	4.72e-04	-3.80e-03	4.64e-03	-1.18e-03	-1.39e-03	-2.59e-03	-1.88e-03
## 1142	-2.58e-02	-4.00e-03	2.21e-02	2.15e-02	4.84e-03	1.64e-02	4.66e-03
## 1143	5.67e-02	4.86e-02	3.00e-02	9.30e-02	-1.10e-02	6.91e-02	9.83e-03
## 1144	-1.56e-02	2.64e-03	1.57e-02	1.72e-02	-1.54e-02	3.09e-02	1.81e-02
## 1145	2.38e-02	2.30e-02	1.14e-02	-9.65e-03	-1.23e-02	3.48e-02	1.20e-02
## 1146	-2.24e-02	-5.92e-04	-1.12e-02	-8.01e-03	-2.72e-02	-6.14e-03	2.39e-02
## 1147	-3.64e-04	-1.02e-02	6.21e-03	-1.18e-02	-4.91e-03	-6.59e-03	5.53e-03
## 1148	-7.48e-03	1.95e-03	-6.50e-03	-2.22e-03	1.51e-02	1.82e-02	-8.94e-03

##	1149	-6.84e-03	1.14e-03	-3.11e-03	-1.34e-03	-5.51e-03	1.48e-02	5.56e-03
##	1150	1.85e-04	-1.35e-02	6.79e-04	1.06e-02	1.47e-02	1.23e-02	-1.25e-02
##	1151	1.92e-03	-5.27e-04	-3.08e-03	4.38e-03	9.92e-05	-4.22e-03	-1.57e-03
##	1152	-3.34e-03	-5.66e-02	4.41e-02	7.51e-02	-3.40e-02	5.65e-02	2.65e-02
##	1153	1.76e-02	1.33e-02	-2.54e-02	-7.43e-03	8.61e-03	-1.98e-02	-8.25e-03
##	1154	-3.65e-02	-3.43e-02	1.48e-02	2.12e-02	1.57e-02	4.23e-02	-1.37e-02
##	1155	3.15e-03	-9.92e-04	7.10e-03	1.58e-03	8.07e-04	1.96e-03	3.73e-03
##	1156	3.40e-04	5.07e-03	1.97e-03	-3.31e-03	5.24e-03	1.00e-03	-6.12e-03
##	1157	-6.00e-03	4.19e-04	-7.09e-03	1.13e-02	9.03e-04	-3.88e-03	-1.45e-03
##	1158	1.09e-02	-7.39e-04	-5.74e-03	5.00e-03	7.04e-03	2.35e-03	-1.30e-02
##	1159	-5.84e-03	-1.23e-04	-5.87e-03	-2.04e-03	-2.86e-03	-2.08e-03	1.86e-03
##	1160	3.43e-02	2.95e-02	-2.06e-02	-7.52e-03	-2.09e-02	-5.91e-03	1.83e-02
##	1161	-1.53e-03	1.93e-02	-2.01e-03	-1.50e-02	1.83e-03	1.41e-02	-1.29e-03
##	1162	-1.47e-02	-1.20e-03	4.97e-03	1.27e-02	-2.92e-02	-1.99e-03	2.24e-02
##	1163	5.18e-02	-6.78e-03	-3.63e-02	-5.86e-02	2.69e-02	-1.20e-01	-1.17e-02
##	1164	-1.26e-02	1.20e-03	-2.24e-04	-2.67e-03	2.37e-02	9.89e-03	-1.85e-02
##	1165	3.62e-02	3.04e-02	-2.95e-02	-1.22e-02	-4.83e-02	-3.37e-02	4.78e-02
##	1166	-2.33e-02	1.67e-03	3.43e-02	-1.05e-02	-1.91e-03	-2.11e-02	1.06e-02
##	1167	-2.14e-03	-2.75e-04	-2.88e-03	2.12e-03	-4.33e-04	-2.63e-03	-9.06e-04
##	1168	3.96e-03	7.64e-02	-1.02e-02	-1.09e-01	3.19e-02	4.69e-02	-2.10e-02
##	1169	4.45e-02	4.12e-02	6.87e-02	-2.55e-02	5.57e-02	-4.08e-02	-4.51e-02
##	1170	-5.62e-03	-8.41e-04	-4.63e-03	-9.78e-03	5.16e-03	-2.29e-03	-4.24e-03
##	1171	2.05e-02	1.82e-02	-2.31e-02	-8.69e-03	8.95e-03	-2.20e-02	-4.17e-03
##	1172	-5.56e-02	-4.77e-02	3.10e-03	8.75e-03	-8.73e-03	-6.16e-02	-1.04e-02
##	1173	2.21e-02	1.89e-02	2.11e-02	1.82e-02	-5.32e-03	-4.45e-03	2.16e-03
##	1174	-1.02e-02	4.54e-05	1.33e-02	-3.51e-03	-2.15e-02	1.70e-02	1.48e-02
##	1175	1.08e-03	1.19e-02	5.11e-03	1.20e-02	4.83e-03	2.32e-03	-3.00e-03
##	1176	-3.99e-03	-1.10e-04	1.03e-04	-2.02e-03	-3.72e-03	3.21e-03	2.83e-03
##	1177	-6.91e-03	1.21e-04	-4.54e-04	-3.26e-03	7.15e-03	4.16e-03	-1.01e-02
##	1178	-1.93e-03	9.59e-03	-6.05e-03	-8.39e-03	-1.36e-02	-1.02e-02	1.61e-02
##	1179	2.04e-02	1.67e-02	2.86e-02	-9.55e-03	6.93e-03	-2.08e-03	-6.73e-03
##	1180	-1.87e-04	5.06e-03	2.19e-04	7.47e-04	1.10e-03	-1.63e-03	-1.53e-03
##	1181	2.85e-02	2.32e-02	-9.11e-03	-9.33e-03	1.25e-02	1.14e-02	1.21e-02
##	1182	-2.79e-03	1.37e-04	3.34e-03	3.27e-03	-8.09e-04	-7.30e-04	1.13e-03
##	1183	1.21e-03	-4.63e-05	-1.52e-03	-9.17e-04	1.42e-03	3.33e-05	-1.08e-03
##	1184	-6.51e-04	1.16e-02	3.95e-03	1.25e-02	-2.68e-03	-1.06e-02	2.03e-03
##	1185	4.62e-03	-4.81e-04	7.98e-03	2.41e-03	-1.39e-02	3.74e-03	1.21e-02
##	1186	2.90e-03	-6.32e-04	-7.11e-07	-6.07e-03	-6.37e-03	1.17e-03	1.42e-02
##	1187	-7.43e-02	-6.24e-02	-6.77e-02	3.14e-02	3.88e-02	5.44e-02	-5.82e-02
##	1188	1.27e-02	-5.54e-04	1.77e-02	3.00e-03	4.59e-03	1.66e-02	-1.52e-02
##	1189	-9.63e-03	-5.53e-02	3.71e-02	3.59e-02	-4.18e-02	2.30e-02	4.56e-02
##	1190	1.13e-03	1.26e-02	1.08e-02	2.46e-03	4.80e-03	9.64e-03	-2.68e-03
##	1191	9.94e-05	2.00e-03	-1.23e-03	3.94e-04	5.65e-04	-8.37e-04	-5.93e-04
##	1192	-9.39e-03	-5.98e-04	2.74e-04	-3.98e-03	-5.31e-03	-9.87e-03	6.63e-03
##	1193	1.40e-03	-3.89e-02	-5.24e-03	-6.38e-03	2.41e-02	3.47e-02	2.65e-03
##	1194	3.00e-02	2.41e-02	2.66e-02	2.30e-02	1.11e-02	2.11e-02	-8.49e-03
##	1195	-1.16e-03	1.27e-02	-9.53e-03	1.51e-02	-5.05e-03	-4.84e-03	6.14e-03
##	1196	6.70e-05	5.69e-05	6.10e-05	-2.39e-05	3.12e-06	-2.52e-06	-2.52e-05
##	1197	3.24e-02	2.90e-02	-1.84e-02	-8.78e-03	-5.03e-02	-6.92e-03	5.74e-02
##	1198	2.58e-02	2.26e-02	1.40e-02	-1.02e-02	1.01e-02	3.46e-02	-1.04e-02

##	1199	-1.27e-03	-1.68e-02	1.38e-02	-7.25e-03	-5.88e-03	-9.82e-03	4.06e-03
##	1200	-1.15e-02	1.01e-03	-7.02e-03	-3.07e-03	-9.26e-03	-3.81e-03	8.80e-03
##	1201	-7.10e-04	-2.37e-02	1.44e-02	-5.34e-03	1.36e-02	-1.58e-02	-7.92e-03
##	1202	-6.07e-02	-5.23e-02	6.62e-02	-4.70e-02	-5.85e-02	1.25e-02	5.26e-02
##	1203	-1.90e-03	5.07e-05	-2.13e-03	-5.55e-04	1.70e-03	-6.48e-04	-1.12e-03
##	1204	3.04e-03	-1.24e-03	-5.35e-03	8.56e-03	1.25e-02	5.36e-03	-1.01e-02
##	1205	5.60e-02	-2.00e-03	8.67e-02	1.33e-02	-7.80e-02	2.71e-02	-1.44e-03
##	1206	-8.94e-02	-7.53e-02	9.27e-02	2.11e-02	3.69e-02	-4.01e-02	-3.55e-02
##	1207	1.01e-03	9.21e-04	-6.25e-04	-4.83e-04	6.23e-04	-9.98e-04	-2.92e-04
##	1208	6.65e-03	-2.30e-02	-1.65e-02	2.19e-02	2.11e-02	9.56e-03	-1.59e-02
##	1209	5.71e-03	5.02e-04	-1.84e-03	-6.64e-03	5.08e-03	6.90e-03	-8.53e-03
##	1210	-1.59e-04	6.58e-03	5.48e-03	-9.56e-03	-2.17e-04	5.03e-03	7.78e-04
##	1211	1.59e-03	1.22e-04	7.69e-04	2.83e-03	-1.56e-03	-7.05e-04	-1.31e-04
##	1212	-1.26e-03	-2.38e-02	2.24e-02	3.52e-02	2.66e-02	-1.29e-02	-3.61e-02
##	1213	-1.30e-02	-2.13e-03	2.09e-02	1.40e-02	1.67e-02	-1.61e-02	-7.05e-03
##	1214	1.32e-02	1.14e-01	1.10e-01	2.60e-02	-3.48e-03	8.07e-02	-3.02e-03
##	1215	-1.48e-03	2.66e-04	-3.52e-03	-3.53e-03	-4.67e-03	-2.66e-03	3.16e-03
##	1216	4.79e-02	3.88e-02	-3.01e-02	3.93e-02	8.37e-02	-4.73e-02	-8.03e-02
##	1217	-4.17e-03	5.92e-04	-2.75e-03	-1.53e-03	5.97e-03	-7.27e-03	-7.13e-03
##	1218	-1.65e-03	-2.38e-04	4.64e-04	-2.77e-03	2.46e-03	-5.64e-04	-2.29e-03
##	1219	7.75e-03	6.17e-03	6.82e-03	-2.12e-03	-5.11e-03	-8.04e-04	1.75e-03
##	1220	-3.59e-03	-3.59e-04	3.93e-03	-1.49e-03	3.05e-03	-7.61e-04	-1.07e-03
##	1221	1.06e-02	8.74e-03	4.51e-03	-4.50e-03	-6.28e-03	-9.70e-03	1.22e-02
##	1222	-2.69e-04	1.34e-04	-2.47e-04	2.88e-04	1.43e-04	-2.36e-05	1.28e-04
##	1223	7.45e-02	1.87e-02	-1.72e-02	-1.34e-01	1.31e-02	1.63e-02	-1.70e-02
##	1224	5.36e-02	-1.72e-03	5.72e-02	-1.39e-01	7.38e-02	1.40e-02	-6.87e-02
##	1225	-1.97e-02	-4.92e-03	1.59e-03	3.72e-02	5.40e-03	-4.95e-03	-2.66e-03
##	1226	3.16e-02	2.56e-02	1.79e-02	1.56e-02	2.17e-02	1.48e-02	-3.49e-02
##	1227	-2.63e-02	-3.36e-03	1.45e-02	-8.73e-03	2.85e-02	-5.16e-03	-1.61e-02
##	1228	-5.37e-03	-7.55e-04	-1.71e-04	-1.87e-03	5.29e-03	-1.76e-03	-3.72e-03
##	1229	-1.01e-02	-9.49e-05	2.02e-03	2.07e-02	5.49e-04	6.77e-03	-1.10e-03
##	1230	-3.02e-02	-1.62e-03	-3.15e-02	-1.08e-02	5.07e-03	4.11e-02	1.06e-02
##	1231	-1.45e-03	-3.73e-02	-2.04e-02	-8.28e-03	3.11e-02	2.81e-02	-2.51e-02
##	1232	6.65e-03	5.66e-03	7.84e-03	-1.46e-03	1.13e-03	3.21e-03	1.97e-03
##	1233	3.93e-03	-2.59e-04	-4.30e-03	1.07e-03	-4.22e-03	1.36e-03	2.29e-03
##	1234	-1.11e-02	-1.75e-03	1.58e-02	-3.40e-03	9.68e-03	-1.07e-02	-3.81e-03
##	1235	-4.34e-03	1.05e-03	-4.78e-03	-1.75e-03	-5.75e-03	3.50e-03	3.23e-03
##	1236	1.49e-03	-8.06e-03	-2.75e-03	-1.62e-03	-2.58e-03	-6.18e-03	-6.96e-04
##	1237	-3.33e-03	7.51e-02	6.45e-02	-5.92e-02	1.83e-03	-6.96e-02	-2.14e-02
##	1238	-5.59e-02	-4.65e-02	-7.52e-02	-1.11e-01	-2.90e-03	-3.93e-02	7.15e-03
##	1239	3.03e-02	2.54e-02	1.93e-02	-1.42e-02	1.92e-02	1.84e-02	-2.01e-02
##	1240	2.18e-02	1.85e-02	2.99e-02	-1.09e-02	-8.76e-03	-1.92e-02	6.13e-03
##	1241	-4.24e-04	7.33e-05	-3.36e-04	-1.87e-04	1.00e-04	-5.27e-04	-1.66e-04
##	1242	-1.75e-02	-2.02e-03	-1.41e-02	4.03e-02	-1.75e-02	-4.35e-03	4.80e-03
##	1243	2.83e-02	2.17e-02	-2.00e-02	-9.97e-03	-5.80e-03	1.03e-02	-1.76e-02
##	1244	-7.16e-03	-1.40e-03	2.28e-03	1.53e-02	-6.29e-03	-1.42e-03	1.22e-03
##	1245	2.63e-02	2.32e-02	-1.15e-02	2.23e-02	4.50e-02	3.19e-02	-3.81e-02
##	1246	-2.49e-02	-4.11e-03	7.57e-03	-8.83e-03	2.79e-03	-2.35e-02	4.08e-04
##	1247	1.83e-02	1.14e-01	9.61e-03	-6.53e-02	-2.28e-02	7.26e-02	1.44e-03
##	1248	-8.68e-03	-6.54e-04	8.09e-03	-3.91e-03	8.61e-03	-1.52e-03	-1.33e-02

##	1249	1.84e-02	1.55e-02	-1.38e-03	-6.12e-03	1.57e-02	-1.73e-02	-1.23e-02
##	1250	-5.18e-02	-4.00e-02	-2.92e-02	-1.05e-01	-2.08e-02	-3.15e-02	2.15e-02
##	1251	2.71e-02	2.64e-02	-8.56e-03	-4.77e-02	-2.78e-04	-6.65e-03	-1.52e-03
##	1252	4.86e-05	-1.03e-02	-9.29e-03	8.27e-03	-1.51e-02	9.13e-03	1.26e-02
##	1253	-1.37e-02	-1.76e-03	-1.91e-02	-2.26e-02	7.54e-03	-1.67e-02	-3.70e-03
##	1254	7.87e-04	8.18e-04	5.27e-05	-2.97e-04	-2.68e-04	4.72e-04	4.21e-04
##	1255	-2.22e-03	-1.82e-03	1.09e-03	3.63e-04	1.50e-03	1.73e-03	-1.33e-03
##	1256	-4.44e-02	-3.66e-02	1.15e-02	1.64e-02	6.36e-02	-5.50e-02	-4.12e-02
##	1257	-2.23e-02	-2.55e-03	-7.62e-03	2.16e-02	1.10e-02	1.20e-02	-1.83e-03
##	1258	6.58e-02	2.37e-03	8.20e-03	2.36e-02	1.36e-01	1.70e-02	-9.80e-02
##	1259	-2.59e-03	-2.72e-02	-1.88e-02	1.67e-02	-1.68e-03	2.19e-02	1.10e-03
##	1260	-1.22e-03	-2.08e-04	4.55e-04	-1.85e-03	-5.32e-04	-4.34e-04	5.74e-04
##	1261	8.93e-03	8.83e-03	6.94e-04	-3.15e-03	7.53e-03	4.70e-03	-2.28e-03
##	1262	-3.77e-02	-5.49e-03	8.49e-03	8.16e-02	-7.10e-03	-3.81e-02	2.08e-02
##	1263	4.63e-02	2.46e-03	-6.25e-02	-4.53e-02	-2.34e-02	1.26e-03	1.11e-02
##	1264	9.54e-04	-1.31e-02	5.00e-03	-2.08e-03	5.69e-03	5.57e-03	-3.31e-03
##	1265	-2.25e-03	1.14e-04	8.82e-04	2.40e-03	-1.02e-03	3.37e-03	1.12e-04
##	1266	7.83e-04	1.44e-02	1.34e-02	3.51e-03	1.80e-02	-6.01e-03	-2.06e-02
##	1267	5.31e-04	-9.43e-03	-7.04e-03	-1.25e-03	1.76e-03	8.12e-03	-6.82e-04
##	1268	-4.61e-04	4.39e-03	4.20e-03	1.34e-03	3.20e-03	5.44e-04	-5.30e-03
##	1269	-1.46e-02	2.71e-03	3.43e-03	1.34e-02	-2.06e-02	-1.50e-03	1.93e-02
##	1270	5.62e-03	4.25e-03	-6.13e-03	-1.10e-03	5.68e-03	-5.37e-03	-3.78e-03
##	1271	1.95e-02	1.61e-02	2.42e-02	4.05e-02	-5.30e-03	-1.84e-02	-6.12e-04
##	1272	-5.37e-02	-4.47e-02	-8.86e-02	3.06e-02	-1.61e-02	-3.70e-02	1.80e-02
##	1273	-2.85e-03	-5.57e-05	3.93e-03	3.39e-03	3.93e-03	-5.42e-04	-3.47e-03
##	1274	4.87e-02	1.73e-03	2.30e-02	1.65e-02	3.10e-03	-7.53e-02	-3.85e-04
##	1275	-1.71e-02	-3.50e-03	-2.10e-02	1.74e-02	-3.28e-03	-2.30e-02	8.83e-03
##	1276	-2.16e-03	2.85e-04	2.50e-03	-7.93e-04	3.87e-03	-7.99e-04	-5.79e-03
##	1277	-1.56e-02	-1.46e-03	1.55e-02	1.59e-02	-2.22e-02	1.12e-02	1.84e-02
##	1278	2.51e-05	-6.33e-03	3.18e-03	-1.77e-03	-2.44e-03	-4.68e-03	-2.36e-03
##	1279	-1.22e-02	3.37e-03	-1.87e-02	-3.69e-03	-2.55e-02	2.45e-02	2.25e-02
##	1280	1.34e-04	8.15e-02	8.28e-02	1.12e-02	-1.79e-02	-3.10e-02	6.14e-03
##	1281	-6.00e-04	-9.67e-03	-6.34e-03	-1.49e-03	-6.19e-03	2.51e-03	1.12e-02
##	1282	-7.26e-02	-5.34e-02	5.19e-02	2.30e-02	6.17e-03	6.30e-02	-4.37e-03
##	1283	-1.61e-03	-5.25e-06	-2.01e-03	-3.43e-03	2.35e-03	2.61e-03	-4.93e-04
##	1284	2.50e-03	2.29e-04	1.89e-03	7.36e-04	-3.77e-04	3.00e-03	-4.90e-04
##	1285	1.38e-02	1.05e-02	3.40e-04	-3.68e-03	1.04e-02	-1.42e-03	-2.05e-02
##	1286	3.43e-02	2.91e-02	-3.16e-02	2.17e-02	2.15e-02	1.43e-02	-3.49e-02
##	1287	-8.29e-03	7.47e-05	-1.39e-02	-2.39e-03	8.37e-03	1.41e-02	-5.93e-03
##	1288	-7.23e-03	1.27e-03	-1.14e-02	-1.63e-02	-7.54e-03	1.51e-02	6.48e-03
##	1289	4.88e-04	2.12e-02	1.86e-02	4.75e-03	-2.85e-04	1.83e-02	-5.27e-03
##	1290	-6.34e-04	5.22e-03	5.93e-03	9.67e-04	-3.92e-03	-2.12e-03	5.10e-04
##	1291	8.09e-02	9.06e-03	8.88e-02	1.84e-02	3.79e-02	-9.53e-02	-3.66e-02
##	1292	-8.19e-02	-7.26e-02	-2.52e-02	2.27e-02	7.90e-02	-1.03e-01	-7.88e-02
##	1293	-4.00e-04	-1.49e-02	-8.46e-03	-2.59e-03	-1.19e-02	-1.05e-02	1.03e-02
##	1294	2.38e-02	2.21e-02	1.38e-02	-1.00e-02	1.12e-02	-2.25e-03	-4.66e-03
##	1295	2.50e-02	2.03e-02	-1.36e-02	-2.95e-02	3.24e-03	9.81e-03	-5.93e-03
##	1296	3.65e-03	-1.98e-02	-1.15e-02	-7.85e-03	2.24e-03	-4.27e-03	4.77e-03
##	1297	2.19e-02	1.78e-02	1.20e-03	-6.35e-03	-1.48e-02	-1.48e-03	3.46e-03
##	1298	5.87e-02	3.95e-03	1.97e-03	1.73e-02	-1.73e-02	-3.00e-02	-2.61e-03

## 1299	6.48e-02	2.99e-03	-1.07e-02	2.81e-02	-1.65e-01	-4.26e-02	1.71e-01
## 1300	-1.09e-04	1.33e-02	-5.21e-03	2.73e-03	-1.65e-03	9.38e-03	8.58e-04
## 1301	3.55e-03	1.36e-05	5.61e-03	7.76e-03	-1.37e-03	1.90e-03	1.92e-03
## 1302	-1.30e-03	1.52e-02	-6.51e-03	5.00e-03	-1.47e-02	-4.56e-03	9.81e-03
## 1303	-2.00e-02	-4.61e-03	-2.25e-02	4.73e-02	1.42e-02	-7.57e-03	-7.85e-03
## 1304	4.31e-03	-3.01e-02	-2.72e-02	2.07e-02	5.88e-03	9.39e-03	1.05e-02
## 1305	-6.37e-05	-2.01e-02	1.28e-02	-3.27e-03	-9.59e-03	1.73e-02	1.59e-02
## 1306	7.63e-03	2.49e-04	7.98e-04	1.93e-03	-4.95e-03	1.07e-02	3.98e-03
## 1307	-2.17e-02	4.91e-04	6.34e-04	-6.93e-03	-2.59e-02	3.70e-02	7.31e-03
## 1308	-9.71e-03	-8.19e-04	1.03e-03	-3.76e-03	7.98e-03	1.64e-02	-8.19e-03
## 1309	-3.11e-02	-4.83e-03	-1.79e-02	6.43e-02	-1.07e-02	-3.09e-02	3.13e-02
## 1310	1.57e-02	1.32e-02	1.07e-02	-7.42e-03	-1.54e-02	-1.44e-02	1.19e-02
## 1311	-1.45e-02	5.94e-03	-2.05e-02	-4.05e-03	6.32e-03	-5.54e-03	-2.31e-02
## 1312	2.91e-02	2.99e-02	3.98e-02	-1.57e-02	-1.05e-02	1.63e-03	8.04e-03
## 1313	6.72e-02	6.13e-03	6.40e-02	1.24e-01	-3.58e-02	-9.73e-02	4.01e-02
## 1314	4.99e-03	6.28e-02	-2.24e-02	-3.47e-02	-7.02e-03	-5.63e-02	-6.70e-04
## 1315	1.09e-02	-1.01e-03	1.79e-03	5.45e-03	6.24e-03	3.05e-03	-7.01e-03
## 1316	-2.10e-02	-2.38e-03	-6.40e-03	-9.00e-03	5.62e-03	1.09e-02	-5.91e-04
## 1317	-4.40e-03	3.73e-04	-8.44e-03	-9.36e-04	-3.36e-03	-7.29e-03	1.34e-03
## 1318	3.92e-02	3.74e-02	1.50e-02	-1.48e-02	1.35e-02	-2.98e-02	-4.41e-03
## 1319	-2.08e-03	-3.22e-04	2.17e-03	-6.35e-04	3.57e-03	-2.19e-03	-2.41e-03
## 1320	1.65e-02	1.46e-02	-1.09e-02	-5.07e-03	-1.62e-02	-1.44e-02	1.05e-02
## 1321	-3.01e-03	1.29e-05	4.02e-03	-1.75e-03	2.96e-03	-3.70e-04	-1.20e-03
## 1322	2.76e-02	2.10e-02	3.40e-03	-8.34e-03	6.24e-03	-5.15e-03	1.68e-03
## 1323	-2.52e-03	2.13e-02	1.41e-02	2.85e-03	2.00e-02	1.74e-02	-1.27e-02
## 1324	6.01e-04	3.07e-03	-1.70e-03	1.13e-03	-1.08e-03	2.01e-03	8.09e-04
## 1325	-3.10e-03	-2.57e-02	-1.99e-02	3.46e-02	2.97e-03	-6.65e-03	-2.81e-03
## 1326	1.51e-02	1.21e-02	-7.03e-03	-3.47e-03	1.46e-02	-3.32e-03	-1.16e-02
## 1327	-5.26e-02	-4.29e-02	3.34e-02	-3.94e-02	-7.36e-02	-2.47e-02	1.01e-01
## 1328	-6.36e-03	1.54e-02	-1.59e-02	2.17e-02	1.19e-02	-2.22e-02	-1.01e-02
## 1329	-1.40e-02	-2.57e-03	1.88e-02	1.38e-02	-2.06e-02	-2.54e-03	2.25e-02
## 1330	-1.80e-02	-3.15e-03	-1.59e-02	1.61e-02	5.26e-03	8.04e-03	-6.50e-03
## 1331	3.70e-03	-5.82e-04	4.48e-03	-6.84e-03	2.00e-03	2.08e-03	5.90e-03
## 1332	6.79e-04	-2.45e-04	1.48e-03	-1.15e-03	-4.13e-05	-5.91e-04	8.00e-04
## 1333	-3.81e-02	-3.08e-02	1.89e-02	-2.85e-02	-6.58e-03	3.25e-02	1.29e-02
## 1334	6.30e-02	-1.40e-02	-1.21e-02	1.43e-02	1.89e-01	-6.36e-02	-1.65e-01
## 1335	-2.69e-02	-1.92e-03	-1.39e-02	2.95e-02	5.46e-02	4.52e-02	-4.67e-02
## 1336	3.62e-05	2.12e-03	-1.42e-03	4.32e-04	1.80e-03	1.45e-03	-1.69e-03
## 1337	2.95e-03	2.82e-04	4.85e-03	-3.87e-03	-3.59e-03	4.46e-03	-7.21e-04
## 1338	-1.32e-02	-1.19e-03	-5.98e-03	-4.67e-03	3.12e-03	8.93e-03	-4.47e-03
## 1339	-7.88e-02	-6.30e-02	7.00e-02	2.26e-02	4.44e-02	6.87e-02	-4.40e-02
## 1340	-4.99e-02	-4.12e-02	2.39e-02	2.57e-02	-6.11e-04	-3.00e-02	5.22e-03
## 1341	-1.61e-02	1.99e-03	3.27e-03	2.34e-02	-5.59e-03	-2.89e-03	5.60e-03
## 1342	1.15e-04	-1.07e-02	-7.39e-03	-2.57e-03	-7.54e-03	-2.24e-03	8.87e-03
## 1343	-1.20e-02	1.71e-03	2.61e-04	-5.51e-03	-1.59e-02	-1.41e-02	5.55e-03
## 1344	2.26e-02	1.96e-02	7.66e-03	-9.33e-03	7.56e-03	2.89e-02	7.14e-03
## 1345	-1.79e-02	-2.56e-04	-9.45e-03	-5.69e-03	-2.01e-02	2.62e-02	2.96e-02
## 1346	-3.26e-02	-2.87e-03	3.05e-02	2.96e-02	-3.22e-02	2.13e-02	2.06e-02
## 1347	-5.02e-03	7.28e-05	-9.06e-03	8.82e-03	-1.28e-04	-8.83e-03	-6.43e-04
## 1348	2.24e-02	1.96e-02	-2.97e-02	2.06e-02	-2.87e-02	-2.02e-02	2.92e-02

##	1349	4.06e-04	-2.90e-03	-2.76e-03	-2.86e-04	1.92e-03	2.27e-03	-3.29e-03
##	1350	-4.29e-02	-7.22e-03	-4.46e-02	3.79e-02	7.93e-03	-1.08e-02	-1.21e-02
##	1351	1.25e-02	1.01e-02	-1.02e-02	-1.59e-02	1.03e-04	-3.22e-03	-2.19e-03
##	1352	-2.83e-03	1.37e-02	-2.51e-03	4.74e-03	-1.74e-02	1.07e-02	2.26e-02
##	1353	-7.04e-03	-4.30e-04	-2.88e-03	-1.28e-02	-7.10e-03	1.04e-02	7.22e-03
##	1354	4.68e-02	-2.91e-03	4.30e-02	-1.03e-01	-1.09e-02	-7.79e-02	-2.65e-03
##	1355	-1.16e-01	-8.34e-02	8.31e-02	1.57e-02	-3.65e-02	7.05e-02	2.73e-02
##	1356	-2.13e-02	-2.80e-03	3.20e-02	1.93e-02	-8.28e-03	1.41e-02	1.06e-02
##	1357	-2.46e-03	-2.62e-04	1.51e-03	-9.10e-04	-2.46e-03	1.50e-03	3.43e-03
##	1358	8.20e-04	-2.29e-04	7.83e-04	3.35e-04	-2.11e-03	-1.79e-03	2.52e-03
##	1359	-7.02e-04	-2.37e-02	-1.54e-02	-4.06e-03	9.66e-04	-1.85e-02	-4.35e-03
##	1360	-2.12e-02	-1.14e-03	-1.13e-02	2.03e-02	1.74e-02	-2.30e-02	-2.32e-02
##	1361	-3.41e-04	-1.70e-02	3.36e-03	-1.73e-02	1.21e-02	-3.54e-03	-1.18e-02
##	1362	-3.84e-03	-4.59e-04	6.16e-04	-6.54e-03	2.65e-03	-4.52e-03	-8.17e-04
##	1363	2.16e-02	1.95e-02	1.73e-02	-5.19e-03	-6.38e-03	-9.31e-04	8.02e-03
##	1364	1.62e-02	1.37e-02	1.50e-02	-5.69e-03	-4.58e-03	-3.24e-03	3.95e-03
##	1365	-2.56e-02	-2.03e-03	2.09e-02	2.32e-02	7.25e-03	-2.15e-02	-1.49e-02
##	1366	-6.19e-02	-5.34e-02	-5.75e-02	9.14e-02	2.28e-02	-8.39e-02	-2.16e-02
##	1367	-1.66e-02	9.39e-04	2.84e-02	3.84e-02	-3.49e-03	2.11e-04	3.82e-03
##	1368	-1.48e-02	-2.12e-04	2.03e-02	-5.05e-03	3.05e-03	1.11e-02	2.74e-03
##	1369	-2.55e-02	-1.49e-03	-2.88e-02	2.85e-02	5.61e-03	-3.11e-02	6.16e-03
##	1370	-7.21e-02	-6.07e-02	4.50e-02	1.92e-02	-9.53e-02	1.54e-02	1.32e-01
##	1371	9.07e-03	-2.79e-03	-2.33e-03	3.70e-03	-5.07e-04	-7.46e-03	-4.88e-03
##	1372	-4.48e-03	1.52e-03	-7.06e-03	9.81e-03	-6.33e-03	1.18e-02	3.24e-03
##	1373	-1.50e-02	-2.08e-03	-1.41e-02	-4.67e-03	-1.41e-02	2.33e-02	1.44e-02
##	1374	-1.04e-03	-2.66e-02	5.10e-03	1.94e-02	-3.48e-02	1.68e-02	5.65e-02
##	1375	-7.21e-03	1.38e-03	-2.11e-03	-3.31e-03	1.70e-02	-1.21e-02	-2.06e-02
##	1376	-4.43e-02	-4.07e-02	-3.99e-02	7.79e-02	-2.27e-02	6.28e-03	4.71e-03
##	1377	-1.01e-04	3.88e-03	3.23e-04	7.53e-04	-4.82e-03	2.91e-03	3.70e-03
##	1378	2.03e-03	-2.04e-04	-2.48e-03	9.41e-04	9.80e-04	2.50e-03	1.01e-03
##	1379	-1.89e-03	-3.28e-02	-1.08e-02	-6.69e-03	-1.26e-02	-2.48e-02	1.93e-02
##	1380	4.69e-02	3.31e-03	-2.73e-02	-5.00e-02	-2.40e-02	-3.62e-02	2.90e-02
##	1381	-1.55e-02	5.35e-04	-7.31e-04	-4.22e-03	-1.29e-02	2.88e-02	5.24e-03
##	1382	1.71e-02	1.70e-02	1.11e-02	-7.56e-03	5.78e-03	-1.39e-03	-2.31e-03
##	1383	-3.19e-03	-2.96e-02	1.90e-02	-9.80e-03	1.70e-02	3.20e-02	-1.32e-02
##	1384	-1.13e-03	3.26e-04	3.71e-04	-2.67e-03	9.20e-04	1.16e-03	-5.99e-04
##	1385	1.92e-02	1.56e-02	2.05e-02	-9.22e-03	-1.00e-02	-1.04e-02	5.92e-03
##	1386	-3.50e-04	3.36e-03	-2.74e-03	9.63e-04	3.61e-03	5.10e-05	-2.08e-03
##	1387	3.14e-02	2.39e-02	-3.55e-02	-9.98e-03	1.69e-02	3.25e-02	-6.60e-03
##	1388	-2.01e-02	-2.01e-03	-1.89e-02	-6.74e-03	-1.89e-02	2.81e-02	1.31e-02
##	1389	5.45e-04	5.67e-03	-5.43e-03	2.22e-03	-1.27e-03	3.69e-03	1.59e-03
##	1390	-2.26e-02	-2.48e-03	1.50e-02	5.16e-02	-1.65e-02	3.59e-02	1.81e-02
##	1391	1.14e-02	1.20e-01	-1.15e-01	-7.46e-02	-3.68e-02	7.42e-02	1.17e-02
##	1392	4.11e-02	3.56e-02	1.85e-02	3.28e-02	3.22e-02	5.06e-02	1.12e-02
##	1393	-5.56e-03	5.26e-04	2.96e-03	-1.15e-03	-2.91e-03	-6.71e-03	3.09e-03
##	1394	7.72e-04	6.68e-04	5.26e-04	-2.36e-04	-7.83e-04	-6.73e-04	7.03e-04
##	1395	1.41e-02	1.09e-02	3.63e-03	9.24e-03	1.86e-02	-1.10e-02	-2.42e-02
##	1396	5.33e-02	1.38e-04	-9.89e-03	1.35e-02	5.14e-03	5.72e-02	-3.61e-03
##	1397	-6.96e-02	-5.61e-02	-1.10e-02	8.81e-03	1.21e-02	-6.59e-02	9.59e-03
##	1398	-7.86e-03	1.03e-04	5.15e-04	-2.08e-03	-2.00e-02	-2.48e-03	2.08e-02



## 1399	1.17e-04	3.91e-03	-3.24e-03	7.01e-04	1.28e-05	2.94e-04	3.41e-04
## 1400	2.54e-03	-1.33e-04	-5.51e-03	7.25e-04	6.15e-03	3.10e-04	-4.39e-03
## 1401	-2.42e-02	3.24e-03	-2.55e-02	-6.40e-03	1.95e-02	1.81e-02	-1.08e-02
## 1402	-2.67e-03	1.09e-03	-4.18e-04	-7.88e-03	1.30e-03	2.41e-03	-2.92e-03
## 1403	-5.54e-03	-4.38e-02	3.32e-03	6.29e-02	-1.62e-02	-2.67e-02	1.84e-02
## 1404	3.09e-02	2.41e-02	-1.18e-02	-1.15e-02	-2.29e-02	2.99e-02	1.37e-02
## 1405	1.00e-02	1.03e-02	1.06e-02	5.37e-03	-1.95e-03	-6.17e-04	1.05e-02
## 1406	9.87e-03	-3.48e-04	-1.09e-02	5.65e-03	-2.58e-03	1.84e-03	7.18e-03
## 1407	4.60e-02	3.69e-02	-1.42e-02	-9.86e-03	-3.65e-02	4.84e-02	3.29e-02
## 1408	2.86e-02	2.47e-02	2.16e-02	2.27e-02	-3.50e-02	-2.24e-03	2.56e-02
## 1409	1.06e-02	8.61e-03	-6.98e-03	-4.70e-03	6.20e-03	-1.27e-02	-3.52e-03
## 1410	-6.13e-03	1.14e-04	-3.13e-03	-2.83e-03	1.73e-03	-2.20e-03	-1.52e-03
## 1411	-9.16e-04	-5.14e-05	-1.24e-03	-2.06e-04	-1.23e-04	4.11e-04	5.10e-04
## 1412	-1.53e-02	-3.22e-03	-9.11e-03	-5.03e-03	1.48e-03	5.52e-03	3.23e-03
## 1413	1.29e-04	1.71e-07	5.48e-05	3.96e-05	-2.02e-04	-7.35e-05	1.07e-04
## 1414	-3.25e-03	-3.13e-02	6.82e-03	-7.31e-03	2.27e-02	-4.51e-03	-1.81e-02
## 1415	2.10e-02	1.47e-02	-1.02e-02	-3.76e-03	-8.20e-03	-3.73e-03	1.45e-02
## 1416	-8.95e-04	-1.36e-02	2.83e-03	8.92e-03	-4.55e-04	-7.33e-04	2.61e-04
## 1417	5.98e-03	-1.37e-03	8.40e-03	1.94e-03	6.77e-03	-4.97e-03	-1.21e-02
## 1418	-1.02e-02	-1.09e-03	7.81e-03	-3.64e-03	5.98e-03	-2.07e-03	-5.46e-03
## 1419	-2.59e-02	-4.16e-03	-7.76e-03	2.59e-02	-1.23e-02	-7.61e-03	1.32e-02
## 1420	1.29e-03	-3.84e-02	4.00e-02	-8.81e-03	-1.35e-02	4.19e-02	1.05e-02
## 1421	3.92e-03	4.56e-04	2.14e-03	1.88e-03	-3.08e-03	4.85e-03	-1.83e-04
## 1422	6.91e-03	-3.52e-03	1.65e-02	2.25e-03	-7.18e-03	-6.40e-03	1.49e-02
## 1423	-1.85e-02	1.14e-03	2.43e-02	-5.71e-03	1.15e-02	-3.30e-03	-6.58e-03
## 1424	1.28e-02	1.08e-02	4.46e-04	-6.32e-03	1.09e-02	-4.11e-03	-9.08e-03
## 1425	8.72e-03	7.16e-03	5.22e-03	-1.87e-03	-3.55e-03	-6.43e-04	3.55e-03
## 1426	-2.40e-02	-1.14e-03	-4.19e-02	-1.35e-02	-2.70e-02	-3.44e-02	3.22e-02
## 1427	4.53e-02	3.44e-02	3.25e-02	2.98e-02	3.10e-02	2.42e-02	-1.84e-02
## 1428	-9.55e-03	-1.43e-03	-7.31e-03	-3.44e-03	2.36e-03	-1.17e-02	1.98e-03
## 1429	-2.12e-02	-4.41e-03	-1.02e-03	1.94e-02	1.86e-03	1.08e-02	4.78e-04
## 1430	1.68e-02	1.32e-02	8.77e-03	-5.08e-03	-9.10e-03	-1.61e-02	1.86e-02
## 1431	4.62e-04	-3.19e-06	9.57e-04	-1.47e-03	-1.08e-03	2.38e-04	1.19e-03
## 1432	7.07e-03	2.96e-04	-5.55e-03	3.75e-03	2.05e-03	8.56e-03	7.21e-04
## 1433	-3.97e-03	-8.13e-05	5.50e-03	-9.86e-03	9.41e-03	-5.50e-03	-1.20e-02
## 1434	2.86e-04	-3.91e-02	-2.29e-02	-6.65e-03	-3.07e-02	-4.81e-03	2.32e-02
## 1435	7.62e-04	-4.52e-03	4.95e-03	-1.82e-03	6.35e-03	-3.18e-03	-2.76e-03
## 1436	3.83e-02	3.20e-02	3.18e-02	-1.04e-02	1.25e-02	-2.60e-02	-4.22e-03
## 1437	4.74e-02	4.24e-02	1.77e-02	-2.00e-02	5.98e-03	6.60e-02	-5.38e-03
## 1438	-3.09e-03	-3.16e-03	3.46e-03	1.81e-03	1.38e-03	3.20e-03	2.39e-03
## 1439	6.90e-02	1.04e-02	-9.09e-02	2.69e-02	1.37e-02	-9.56e-02	-1.16e-02
## 1440	-4.89e-03	-4.90e-04	-8.38e-03	5.64e-03	-1.25e-02	-6.34e-03	9.79e-03
## 1441	-1.14e-03	-9.08e-03	-8.56e-03	-1.72e-03	-2.32e-03	2.52e-03	5.82e-03
## 1442	-6.02e-03	2.70e-02	-8.17e-03	6.63e-03	-9.50e-03	2.19e-03	7.52e-03
## 1443	5.96e-02	6.92e-03	-8.95e-02	2.39e-02	-9.86e-02	6.17e-02	9.53e-02
## 1444	3.64e-03	-4.85e-05	-1.79e-03	1.45e-03	2.19e-03	1.23e-03	1.87e-03
## 1445	5.57e-02	-4.45e-03	2.09e-02	1.44e-02	-7.21e-02	3.28e-02	1.90e-04
## 1446	-7.15e-03	1.82e-04	3.52e-03	8.40e-03	-7.32e-03	6.16e-03	3.02e-03
## 1447	-2.71e-03	-2.10e-04	-4.71e-03	3.77e-03	1.08e-03	-1.23e-03	-2.09e-03
## 1448	2.18e-05	6.07e-04	5.36e-04	-8.25e-04	2.22e-05	4.56e-04	-1.82e-04

## 1449	4.19e-05	-4.73e-03	1.55e-03	3.37e-03	5.34e-03	1.70e-03	-5.26e-03
## 1450	2.32e-02	1.92e-02	-1.00e-02	-7.73e-03	5.07e-03	2.71e-02	-2.44e-03
## 1451	3.51e-02	3.08e-02	4.36e-02	-1.20e-02	-3.41e-02	-2.61e-02	1.41e-02
## 1452	7.48e-04	5.53e-05	1.34e-03	1.44e-04	3.60e-04	1.12e-03	-3.59e-04
## 1453	-9.75e-03	1.13e-01	9.93e-02	1.86e-02	-2.51e-02	2.03e-02	2.33e-02
## 1454	-9.45e-03	2.21e-04	-1.87e-02	1.23e-02	-5.83e-04	-1.30e-02	-2.04e-03
## 1455	1.57e-02	1.27e-02	8.29e-03	-5.19e-03	-8.86e-03	-1.69e-03	7.49e-03
## 1456	2.28e-02	1.84e-02	1.12e-02	1.74e-02	1.20e-02	-2.92e-03	-4.96e-03
## 1457	-2.65e-02	1.78e-03	-1.69e-02	-1.08e-02	-7.87e-03	-4.09e-03	9.48e-03
## 1458	1.14e-03	1.49e-05	1.71e-03	3.27e-04	-7.44e-04	5.39e-04	-1.02e-03
## 1459	-1.52e-02	-3.26e-03	9.17e-04	3.11e-02	8.68e-03	-1.51e-02	-6.19e-03
## 1460	-2.68e-02	7.21e-05	2.37e-02	2.69e-02	-3.49e-02	1.91e-02	3.88e-02
## 1461	4.34e-02	3.46e-02	-8.15e-03	3.40e-02	4.24e-02	4.97e-02	-4.23e-02
## 1462	-3.47e-03	8.05e-02	-7.50e-02	-5.19e-02	-1.68e-02	-8.22e-02	1.86e-02
## 1463	-1.02e-02	4.91e-04	2.20e-03	1.09e-02	-2.31e-02	-1.35e-02	2.00e-02
## 1464	1.61e-02	1.51e-02	-4.03e-03	-7.68e-03	2.92e-02	1.96e-02	-3.43e-02
## 1465	2.19e-02	1.86e-02	3.09e-02	1.52e-02	1.26e-02	-8.04e-04	-7.76e-03
## 1466	-4.53e-03	-2.85e-04	4.82e-03	-7.20e-03	-7.06e-03	-4.33e-03	1.03e-02
## 1467	-1.74e-03	2.62e-05	2.21e-03	2.19e-03	-1.27e-03	3.08e-03	-3.75e-04
## 1468	-2.36e-02	-2.67e-03	-2.11e-02	-4.08e-02	-1.11e-02	1.25e-02	3.38e-03
## 1469	-3.38e-03	2.98e-04	4.87e-04	4.50e-03	-4.36e-04	2.52e-03	2.04e-03
## 1470	-1.50e-04	-6.14e-06	-1.13e-04	-2.77e-04	-2.14e-04	-5.96e-05	1.89e-04
##	dfb.OvT1	dfb.PrSH	dfb.TtWY	dfb.WrLB	dfb.YrAC	dfb.YICR	dfb.YSLP
## 1	8.96e-02	-6.43e-02	-6.68e-02	-1.35e-01	-3.13e-03	1.77e-02	-3.95e-02
## 2	5.56e-03	-1.85e-02	1.29e-02	-1.92e-03	-3.54e-03	-4.71e-03	9.86e-03
## 3	7.42e-02	-2.40e-03	1.62e-02	2.20e-02	-9.48e-03	-1.79e-02	9.11e-03
## 4	-3.57e-02	2.92e-02	-6.43e-03	-7.36e-03	-2.27e-02	-3.94e-02	-2.09e-03
## 5	8.31e-03	1.68e-02	-1.28e-02	-6.61e-03	9.99e-03	1.55e-03	-1.03e-02
## 6	8.68e-03	7.24e-03	-3.32e-03	1.35e-02	8.38e-03	-1.25e-02	-1.55e-03
## 7	-2.62e-02	-2.26e-02	5.17e-03	1.44e-02	-6.04e-03	8.53e-03	1.88e-04
## 8	5.68e-03	-1.24e-02	5.54e-03	-3.15e-03	-4.38e-03	5.06e-03	-9.71e-04
## 9	1.13e-02	-2.44e-02	2.26e-02	-1.90e-03	7.16e-03	-9.39e-03	1.65e-02
## 10	4.75e-03	5.35e-03	-1.25e-02	7.06e-03	1.37e-02	-3.43e-03	-1.29e-02
## 11	5.00e-03	6.88e-03	1.81e-03	-4.28e-03	-3.84e-03	-3.52e-03	5.73e-03
## 12	-4.65e-02	2.36e-02	-1.02e-02	-8.06e-03	4.61e-03	6.50e-03	3.30e-02
## 13	1.48e-02	-8.72e-03	4.51e-03	1.94e-02	-4.17e-03	1.51e-02	-2.56e-02
## 14	4.35e-03	7.80e-03	4.45e-03	-3.26e-03	7.59e-04	8.78e-04	-2.14e-03
## 15	5.81e-02	-1.46e-02	1.93e-02	1.46e-02	5.68e-04	-8.87e-03	-1.59e-02
## 16	3.34e-03	7.45e-03	5.76e-03	-1.89e-03	7.50e-03	-5.16e-03	-1.19e-02
## 17	-4.28e-02	2.01e-02	-2.71e-03	2.30e-02	-8.15e-03	1.71e-02	1.33e-02
## 18	-1.94e-02	8.15e-03	-2.90e-04	1.25e-02	-3.91e-03	6.64e-03	-1.51e-03
## 19	-2.97e-03	1.35e-03	2.71e-03	2.19e-03	1.59e-02	-4.62e-03	-7.69e-03
## 20	-3.54e-02	2.74e-02	8.50e-03	-9.18e-03	1.82e-03	9.15e-05	-1.08e-03
## 21	1.26e-03	-2.39e-03	-2.72e-04	3.37e-03	-5.21e-05	1.30e-03	-3.53e-04
## 22	-3.72e-02	1.23e-01	3.19e-02	2.27e-02	1.95e-02	-3.86e-03	-3.27e-02
## 23	4.99e-03	1.51e-02	1.15e-02	-4.13e-03	3.96e-03	7.39e-03	1.04e-02
## 24	1.29e-02	5.67e-03	5.60e-05	-5.78e-03	-6.37e-04	6.85e-03	-4.82e-03
## 25	-3.01e-02	-6.39e-02	2.18e-02	2.09e-02	1.34e-03	-1.56e-02	2.24e-04
## 26	-1.24e-02	-2.05e-02	-1.28e-02	-2.37e-02	-2.17e-02	4.65e-02	-1.10e-02
## 27	3.24e-02	3.66e-02	5.74e-03	1.15e-02	9.88e-03	-3.85e-02	2.64e-02

## 28	4.27e-03	7.46e-03	5.67e-03	-1.47e-03	-4.17e-03	-7.61e-03	-2.01e-03
## 29	-6.64e-04	-5.05e-04	9.85e-04	9.73e-04	1.37e-03	-4.69e-03	-8.80e-04
## 30	8.30e-03	1.10e-02	1.13e-03	1.88e-02	2.33e-02	-5.44e-03	-6.08e-03
## 31	7.80e-03	1.31e-02	-7.35e-03	-4.17e-03	1.13e-03	-9.54e-05	-5.26e-04
## 32	-1.18e-02	5.25e-03	6.79e-03	-1.52e-02	-4.86e-04	5.48e-03	3.12e-04
## 33	1.13e-02	8.02e-03	-1.44e-02	-7.91e-03	-1.73e-02	4.48e-02	8.25e-03
## 34	-6.24e-02	-2.26e-02	2.76e-01	1.58e-01	-5.67e-02	-7.10e-02	1.17e-02
## 35	8.17e-02	1.26e-02	5.67e-02	-4.86e-02	4.66e-03	-3.67e-02	4.18e-02
## 36	-6.66e-03	-6.80e-03	-7.76e-03	-8.03e-03	2.82e-03	-2.17e-03	-8.13e-04
## 37	8.93e-02	-2.44e-02	-1.12e-01	2.72e-02	2.52e-02	-1.79e-03	-1.84e-02
## 38	-9.54e-04	-8.06e-04	-1.19e-03	4.88e-04	-1.82e-04	-3.09e-04	8.68e-04
## 39	-5.80e-02	1.31e-02	3.78e-04	-6.30e-02	-4.95e-04	2.84e-03	2.49e-03
## 40	5.19e-03	-9.49e-03	-2.57e-03	-2.30e-03	-1.39e-03	2.20e-03	1.95e-03
## 41	2.25e-03	2.45e-03	3.15e-03	-1.14e-03	-1.41e-03	1.51e-03	-3.70e-04
## 42	7.20e-03	4.71e-03	5.21e-03	-3.30e-03	-5.45e-03	6.16e-03	-8.26e-04
## 43	-2.43e-02	-4.22e-02	-2.29e-02	-3.66e-02	5.51e-03	-1.98e-02	1.66e-03
## 44	5.64e-03	-8.07e-05	6.14e-03	-5.47e-04	3.60e-03	-9.43e-03	8.54e-03
## 45	5.72e-03	-2.11e-02	-5.58e-03	-1.77e-03	-3.27e-03	-5.35e-03	3.16e-03
## 46	-4.45e-02	-6.80e-02	-9.51e-02	1.10e-02	9.33e-03	1.34e-01	2.35e-01
## 47	6.43e-03	-1.72e-02	7.26e-05	-6.21e-03	6.86e-03	1.07e-02	-3.11e-02
## 48	1.06e-02	-2.48e-02	-9.09e-03	-7.32e-03	-2.68e-03	8.98e-03	-1.04e-04
## 49	-4.18e-02	-3.69e-02	6.75e-03	-1.19e-02	4.63e-03	-4.83e-03	2.84e-02
## 50	-3.67e-03	5.01e-03	-5.26e-03	2.25e-03	2.77e-03	-4.49e-03	2.68e-04
## 51	8.13e-02	-2.54e-02	1.19e-01	1.81e-02	-5.25e-02	-1.54e-02	5.86e-03
## 52	7.10e-02	-2.90e-02	-2.91e-02	-4.48e-02	-1.03e-02	-4.21e-04	2.86e-02
## 53	-3.55e-02	-3.60e-02	2.13e-02	2.13e-02	7.67e-04	-6.39e-04	1.19e-06
## 54	-4.53e-02	1.70e-02	1.55e-02	-9.36e-03	3.44e-03	3.64e-02	-8.71e-03
## 55	-4.46e-02	-2.83e-02	2.48e-03	3.06e-02	-2.71e-03	-3.40e-03	4.09e-03
## 56	-4.94e-02	2.54e-02	1.73e-02	-4.60e-03	4.87e-02	-6.25e-02	-2.17e-02
## 57	7.31e-03	-2.53e-02	2.05e-02	1.74e-02	5.90e-03	-1.35e-02	1.46e-02
## 58	-5.22e-02	6.72e-03	2.31e-02	-1.70e-02	5.90e-03	6.58e-03	-1.67e-02
## 59	-6.62e-03	1.78e-02	2.16e-03	-1.10e-02	-8.19e-03	7.84e-03	-5.51e-03
## 60	4.46e-04	-7.47e-04	1.20e-03	-1.85e-03	1.29e-04	1.02e-04	8.64e-04
## 61	-3.65e-02	-3.58e-02	5.24e-03	-6.88e-03	2.30e-02	-1.13e-02	-2.97e-02
## 62	1.65e-02	2.41e-02	6.26e-03	-1.00e-02	7.92e-03	4.40e-02	-5.35e-02
## 63	-3.92e-02	1.46e-02	2.00e-02	2.21e-02	-9.58e-02	1.09e-01	-6.68e-02
## 64	7.81e-03	1.78e-02	-8.86e-03	1.55e-02	-6.75e-03	-3.93e-02	1.79e-03
## 65	-1.70e-03	-1.46e-03	-2.47e-04	5.12e-04	-1.51e-03	5.43e-03	6.68e-03
## 66	-7.66e-03	1.18e-03	2.21e-03	-2.45e-03	-1.82e-04	6.91e-03	2.71e-03
## 67	1.69e-02	1.80e-02	3.80e-02	-6.18e-03	-9.23e-03	-2.37e-02	2.36e-02
## 68	3.46e-03	-2.76e-03	-1.42e-02	-2.24e-03	5.40e-03	2.85e-03	-3.85e-04
## 69	1.42e-02	1.36e-02	6.39e-03	2.62e-02	-1.94e-03	3.60e-04	2.27e-04
## 70	7.36e-02	2.51e-02	-5.25e-02	-5.33e-02	1.73e-02	-1.89e-02	-3.58e-03
## 71	1.52e-02	2.90e-02	-1.78e-02	2.16e-02	1.82e-02	-7.10e-03	4.18e-03
## 72	1.60e-03	-6.12e-03	-6.91e-04	-1.05e-03	-5.92e-04	-8.48e-05	1.67e-03
## 73	1.13e-02	-1.01e-02	1.67e-02	-5.56e-03	-6.16e-03	1.76e-03	-7.88e-03
## 74	8.48e-04	-1.09e-03	3.50e-04	-7.22e-04	-7.48e-04	2.16e-03	2.34e-03
## 75	2.65e-03	3.73e-03	1.59e-04	-1.71e-03	-9.76e-04	1.97e-03	-1.04e-04
## 76	1.08e-03	-4.22e-03	-4.88e-04	-5.50e-04	-6.04e-04	-3.15e-04	1.81e-03
## 77	6.04e-03	3.73e-03	-1.04e-02	-8.32e-04	-2.41e-03	-3.04e-02	1.72e-02

## 78	-2.75e-02	5.12e-03	-9.20e-03	-3.09e-02	1.88e-02	5.77e-03	2.11e-03
## 79	7.63e-03	9.16e-03	-4.76e-03	-2.45e-02	2.01e-03	3.16e-03	8.53e-03
## 80	-2.81e-02	-3.40e-02	-1.64e-02	-8.52e-03	1.47e-03	4.99e-03	5.19e-03
## 81	-3.11e-02	1.70e-02	-5.30e-03	2.69e-02	-2.12e-02	-3.96e-02	2.65e-03
## 82	9.47e-03	-1.13e-02	7.21e-03	-6.49e-03	-8.08e-03	-2.29e-03	1.20e-02
## 83	2.44e-04	1.46e-04	-7.53e-04	-1.64e-04	4.86e-04	1.66e-04	-1.38e-04
## 84	-1.89e-02	1.11e-02	-1.23e-02	-3.02e-03	6.76e-03	-1.92e-02	1.60e-02
## 85	4.39e-03	5.73e-06	1.08e-02	-3.74e-03	-6.02e-03	6.82e-03	2.93e-04
## 86	4.65e-03	6.45e-03	-2.60e-02	5.35e-03	7.02e-03	-2.75e-03	3.84e-03
## 87	9.24e-03	6.70e-03	-7.35e-03	-4.07e-03	1.58e-03	5.44e-03	-2.88e-03
## 88	-5.45e-03	1.50e-02	-1.51e-03	3.25e-03	2.11e-03	-3.48e-03	-3.03e-03
## 89	1.91e-03	-4.39e-03	-2.08e-03	-6.32e-04	5.47e-03	-4.12e-03	-9.71e-03
## 90	-4.45e-02	1.30e-02	-1.77e-01	1.39e-02	-4.24e-02	7.66e-02	1.62e-02
## 91	1.11e-02	-3.68e-02	5.78e-03	1.73e-02	-3.40e-02	6.42e-02	-3.35e-02
## 92	-3.89e-02	-5.21e-02	4.10e-02	7.23e-02	-5.05e-02	-5.00e-02	2.52e-02
## 93	-3.46e-02	1.73e-02	-3.10e-03	2.36e-02	-6.42e-04	-1.81e-02	1.31e-02
## 94	-5.44e-02	2.07e-02	-2.56e-02	4.33e-02	5.14e-02	-5.25e-02	-6.64e-02
## 95	5.33e-03	-2.70e-03	-3.74e-03	-3.27e-03	1.97e-03	-6.80e-03	-6.95e-03
## 96	1.62e-03	2.60e-03	2.77e-03	6.07e-03	1.48e-03	-8.82e-04	1.66e-03
## 97	5.79e-03	-1.88e-02	4.41e-03	1.30e-02	-2.25e-03	3.10e-03	2.81e-03
## 98	-4.34e-04	-1.67e-04	-2.74e-04	2.14e-03	-9.17e-05	1.91e-04	-9.68e-04
## 99	-4.19e-03	-1.27e-03	4.81e-03	-4.40e-03	2.94e-02	-6.09e-03	-1.62e-02
## 100	2.16e-03	4.89e-03	-9.73e-03	-8.49e-03	3.02e-03	1.52e-03	-2.19e-04
## 101	8.87e-02	1.09e-01	4.06e-03	2.43e-02	1.12e-02	-9.80e-03	-1.32e-02
## 102	1.31e-02	9.62e-03	1.99e-02	-5.21e-03	-1.12e-02	8.18e-03	-9.72e-05
## 103	5.43e-02	3.06e-02	5.83e-04	1.18e-02	4.16e-03	-1.93e-02	1.58e-02
## 104	2.86e-03	2.84e-03	-6.07e-03	-1.57e-03	-6.55e-04	-1.54e-02	1.06e-02
## 105	-3.88e-03	-2.43e-03	1.62e-02	1.17e-02	-4.79e-03	-4.09e-03	6.03e-04
## 106	-1.06e-02	2.39e-02	2.05e-02	5.53e-03	-3.04e-02	-5.55e-03	3.75e-03
## 107	-3.12e-02	-2.00e-02	-1.29e-02	1.94e-02	2.01e-02	1.51e-02	2.00e-02
## 108	7.36e-02	-4.83e-02	-1.02e-02	8.55e-03	8.25e-03	2.04e-02	-3.37e-02
## 109	6.01e-03	9.95e-03	1.21e-03	-2.89e-03	9.96e-04	1.06e-03	-5.12e-03
## 110	1.41e-02	2.31e-03	1.48e-04	-8.09e-03	2.70e-04	7.54e-03	-4.52e-03
## 111	1.43e-02	-3.64e-02	-2.10e-02	3.50e-02	4.82e-02	-5.22e-02	-8.05e-02
## 112	6.22e-02	8.38e-02	-2.32e-02	9.22e-03	3.20e-03	3.64e-02	-4.69e-02
## 113	-1.46e-02	1.04e-02	-1.57e-03	-3.70e-03	1.53e-02	1.65e-03	-6.91e-03
## 114	8.75e-03	1.39e-02	-1.04e-02	-6.21e-03	-6.11e-03	1.58e-03	1.42e-03
## 115	7.70e-03	-2.65e-04	-1.33e-02	-3.78e-03	3.43e-03	6.35e-03	-1.03e-03
## 116	1.81e-03	2.32e-03	4.80e-04	-7.79e-04	5.97e-04	4.05e-04	2.28e-04
## 117	7.48e-03	1.32e-02	7.69e-03	-2.13e-03	1.42e-02	-2.14e-02	-3.91e-03
## 118	2.58e-04	1.84e-04	5.93e-04	-1.42e-04	2.41e-04	-1.58e-04	2.28e-04
## 119	4.14e-03	-1.20e-02	-2.43e-03	-3.34e-03	-1.33e-03	3.89e-03	-1.07e-03
## 120	-1.59e-02	9.08e-03	3.83e-03	-1.86e-02	-1.85e-02	-1.08e-03	1.79e-02
## 121	1.42e-02	-5.67e-02	-1.31e-02	2.14e-02	3.06e-03	-6.99e-03	2.92e-02
## 122	-1.83e-03	-3.61e-03	-1.62e-03	7.48e-03	-2.61e-03	3.60e-03	-5.19e-03
## 123	8.62e-02	3.32e-02	-1.05e-01	2.85e-02	3.56e-03	1.56e-02	4.48e-02
## 124	3.82e-04	7.83e-04	2.31e-03	-9.26e-05	2.83e-03	-3.02e-03	-3.26e-03
## 125	7.96e-02	3.23e-02	3.41e-02	-5.21e-02	-8.78e-02	3.32e-02	7.68e-02
## 126	1.17e-02	-1.94e-02	-5.63e-03	2.13e-02	3.39e-03	-2.68e-03	-1.79e-02
## 127	-8.58e-02	-4.39e-02	1.94e-01	-6.70e-02	5.21e-01	-1.87e-01	1.31e-01

## 128	5.77e-02	4.20e-02	1.34e-03	-4.27e-02	2.14e-03	-1.23e-02	6.76e-03
## 129	4.29e-03	1.85e-03	-3.48e-03	-2.29e-03	5.78e-04	3.55e-03	-5.27e-03
## 130	2.10e-03	1.42e-03	1.94e-03	3.91e-03	8.51e-04	-3.81e-03	7.80e-04
## 131	1.78e-02	2.39e-02	-5.06e-02	-1.27e-02	1.51e-02	1.02e-03	-1.05e-03
## 132	9.91e-03	1.47e-02	5.02e-04	-3.63e-03	1.20e-02	-2.23e-03	-6.15e-03
## 133	6.70e-02	-5.02e-02	-3.15e-02	1.38e-02	-2.56e-02	-2.83e-03	2.18e-02
## 134	-1.03e-02	3.16e-03	6.22e-03	-1.83e-03	1.64e-03	-4.46e-03	7.36e-03
## 135	4.46e-03	-1.45e-02	-5.28e-03	-3.34e-03	4.50e-03	-1.78e-03	-6.80e-03
## 136	4.59e-03	-1.12e-02	3.73e-03	-1.94e-03	-1.59e-03	-3.22e-04	1.75e-03
## 137	-3.82e-02	-1.28e-02	-2.39e-03	2.24e-02	-3.88e-02	-1.10e-02	-3.24e-02
## 138	-4.25e-03	-2.62e-03	5.24e-03	1.22e-02	7.44e-05	6.71e-03	-6.51e-04
## 139	1.37e-02	-1.30e-02	4.52e-03	-9.90e-03	1.61e-02	4.57e-03	-1.25e-02
## 140	-2.57e-02	-1.60e-02	-6.46e-03	4.04e-02	5.59e-03	-1.86e-02	-1.10e-03
## 141	-2.62e-02	1.04e-01	4.97e-02	1.09e-01	-2.81e-03	1.12e-02	-3.60e-02
## 142	1.02e-02	1.01e-02	6.56e-03	1.13e-02	-5.15e-03	-1.01e-02	9.45e-03
## 143	-3.68e-02	-3.39e-02	-6.48e-02	-8.15e-03	2.46e-02	4.94e-03	-1.24e-02
## 144	1.34e-02	1.07e-02	3.48e-03	2.60e-02	-4.28e-04	-1.20e-02	1.48e-02
## 145	2.48e-03	-1.67e-03	2.71e-04	-5.53e-03	1.66e-03	-2.32e-03	4.07e-03
## 146	6.71e-03	1.67e-03	-8.77e-03	-2.64e-03	3.26e-03	1.62e-03	-4.92e-03
## 147	1.13e-02	1.27e-02	-2.68e-03	-7.56e-03	-8.67e-03	-2.60e-04	1.55e-03
## 148	9.07e-03	6.22e-03	-2.13e-03	1.45e-02	2.77e-02	-4.17e-03	-1.83e-02
## 149	5.88e-03	-1.56e-02	4.32e-03	-4.89e-03	-8.04e-03	1.66e-02	-9.37e-05
## 150	1.32e-02	6.48e-03	-4.98e-03	-8.15e-03	-1.06e-02	1.32e-02	-4.36e-03
## 151	5.65e-03	9.46e-03	-6.81e-03	-5.13e-03	-1.36e-02	1.37e-02	1.23e-02
## 152	-2.12e-03	-2.08e-03	-4.18e-03	3.62e-04	1.23e-03	4.92e-03	-6.13e-03
## 153	-2.96e-02	-2.23e-02	9.26e-03	4.37e-02	9.89e-03	-1.82e-02	-1.08e-02
## 154	-2.19e-03	3.61e-03	4.56e-03	-1.02e-02	6.16e-04	-1.34e-03	-8.96e-03
## 155	6.97e-03	4.42e-03	1.44e-02	-2.00e-03	7.79e-03	-1.31e-02	1.90e-03
## 156	-6.90e-03	-1.07e-02	6.33e-03	4.41e-03	-1.31e-03	8.76e-04	-2.16e-02
## 157	5.82e-03	-3.15e-03	7.69e-03	-4.00e-03	-9.82e-04	4.97e-03	5.69e-04
## 158	-4.58e-02	-3.50e-02	3.39e-02	2.47e-02	-1.04e-02	1.20e-02	2.23e-03
## 159	-4.44e-03	-1.01e-02	-4.96e-03	-1.01e-02	-1.04e-02	1.30e-02	-9.33e-03
## 160	7.76e-03	-9.15e-03	-1.38e-03	-3.01e-03	-1.81e-03	-1.80e-03	1.56e-03
## 161	5.08e-03	-1.82e-02	-9.86e-04	-3.34e-03	1.17e-03	3.29e-03	-5.54e-03
## 162	4.44e-03	-4.82e-03	-6.03e-03	1.66e-02	3.58e-03	3.81e-07	-3.64e-03
## 163	1.12e-02	1.73e-02	-2.40e-03	3.44e-02	-9.42e-03	3.29e-03	7.50e-03
## 164	-1.30e-02	-2.17e-03	1.93e-02	2.25e-02	2.34e-03	-1.17e-05	2.06e-03
## 165	-3.62e-02	3.23e-03	1.04e-02	2.23e-02	7.75e-04	3.39e-03	3.79e-04
## 166	2.60e-03	2.56e-04	4.45e-03	-9.53e-04	5.91e-03	-4.04e-04	-3.12e-03
## 167	1.45e-03	2.74e-03	-2.20e-03	-1.22e-03	1.72e-03	-2.82e-03	2.29e-03
## 168	8.67e-04	1.46e-03	2.43e-04	-3.33e-04	7.42e-04	-2.20e-03	-2.29e-03
## 169	4.41e-03	-1.71e-02	2.36e-03	-1.79e-02	-1.44e-03	9.31e-03	8.65e-03
## 170	8.04e-03	-1.73e-02	-7.57e-03	-3.73e-03	2.73e-03	-3.76e-03	3.26e-03
## 171	-4.94e-02	-6.09e-03	-1.26e-02	3.10e-02	-2.77e-02	1.05e-02	2.48e-03
## 172	-2.38e-02	6.92e-02	8.13e-03	6.47e-02	-2.46e-03	-1.45e-02	3.62e-03
## 173	2.01e-02	2.13e-02	-3.21e-02	2.79e-02	3.57e-03	-2.97e-02	-4.06e-02
## 174	2.88e-04	8.52e-04	-6.54e-04	-1.27e-04	6.89e-04	-4.06e-04	-5.49e-04
## 175	-2.52e-02	1.72e-02	1.56e-02	-2.84e-02	-3.35e-03	-4.33e-03	9.59e-03
## 176	-2.98e-02	-1.46e-02	-3.30e-02	-1.18e-02	2.08e-02	2.43e-04	-1.13e-02
## 177	5.60e-03	2.43e-03	2.63e-03	-1.61e-02	-3.18e-03	4.92e-03	1.74e-03

## 178	-3.04e-02	9.92e-02	1.77e-02	-6.03e-02	8.00e-03	-2.31e-02	2.67e-02
## 179	4.10e-03	-2.07e-02	-2.30e-03	-1.63e-03	-1.13e-02	-5.12e-03	-2.14e-02
## 180	8.45e-03	1.14e-02	1.54e-02	-5.10e-03	-2.13e-03	-6.96e-05	-8.12e-03
## 181	-3.13e-02	-4.27e-02	-9.47e-03	-8.53e-03	-5.51e-03	5.37e-03	7.72e-03
## 182	1.51e-02	1.82e-03	-1.69e-02	-7.63e-03	2.78e-03	2.89e-03	-2.34e-03
## 183	6.56e-02	7.27e-02	-6.00e-02	-3.82e-02	2.88e-02	1.25e-02	-1.85e-02
## 184	5.23e-03	8.70e-04	1.20e-02	7.81e-03	-2.16e-03	-5.66e-04	3.29e-03
## 185	-2.60e-03	-3.61e-03	-8.86e-03	1.36e-03	2.02e-03	-1.75e-03	-6.84e-05
## 186	1.09e-03	1.10e-03	-3.26e-04	-5.40e-04	2.86e-05	-1.33e-03	1.26e-03
## 187	-5.80e-03	-9.94e-04	-1.21e-02	1.85e-03	1.03e-02	-9.50e-03	9.63e-03
## 188	-9.40e-03	-1.86e-02	1.54e-02	3.44e-03	1.27e-03	2.36e-02	-4.33e-02
## 189	1.93e-03	-1.06e-03	2.08e-03	3.31e-03	1.80e-03	-3.33e-03	3.58e-03
## 190	4.45e-04	-5.62e-04	6.67e-05	1.01e-05	8.72e-05	-1.26e-03	4.27e-04
## 191	-5.75e-03	-1.38e-03	-8.72e-04	5.82e-04	2.38e-02	1.60e-02	1.20e-04
## 192	9.45e-03	-3.55e-03	-6.82e-03	1.70e-02	-4.54e-03	-2.21e-02	1.30e-02
## 193	7.23e-02	-3.27e-02	-2.52e-03	2.07e-02	-1.66e-02	-2.84e-02	-2.30e-03
## 194	-1.24e-02	-8.00e-03	-5.79e-03	3.39e-02	8.32e-03	2.78e-03	3.96e-03
## 195	-7.60e-04	3.64e-03	-1.30e-03	6.93e-04	2.15e-03	-1.79e-03	3.37e-03
## 196	-4.49e-02	2.63e-02	7.17e-03	2.67e-02	6.77e-03	-2.54e-02	2.19e-02
## 197	1.67e-02	2.80e-02	-5.13e-03	-5.60e-03	-1.63e-02	8.95e-03	7.48e-03
## 198	-2.10e-03	2.33e-04	3.43e-06	1.22e-03	1.10e-03	-1.93e-05	-1.89e-03
## 199	-1.56e-03	-6.01e-04	2.70e-03	8.14e-04	-7.44e-04	-1.32e-03	7.10e-05
## 200	-9.17e-04	6.80e-04	-8.47e-04	-2.86e-03	-7.68e-04	1.01e-03	-8.29e-04
## 201	1.54e-02	-2.93e-02	-4.42e-03	-2.41e-03	5.29e-03	-3.64e-03	-1.26e-02
## 202	3.93e-03	-6.00e-04	-5.23e-03	1.01e-03	-1.23e-03	2.20e-03	-1.81e-03
## 203	-3.38e-02	-1.35e-02	1.15e-02	-4.48e-02	-2.17e-02	-3.42e-03	-6.14e-03
## 204	-2.14e-02	5.76e-04	-1.58e-02	-2.63e-02	5.88e-03	2.27e-02	-7.71e-03
## 205	7.20e-02	4.25e-02	9.08e-02	2.60e-02	-2.33e-02	-2.78e-02	6.08e-04
## 206	-4.13e-02	1.40e-01	-3.55e-02	-8.10e-02	8.94e-03	-8.84e-02	-5.89e-02
## 207	-3.07e-02	-8.03e-03	-8.76e-03	2.09e-02	-6.09e-03	8.43e-03	-1.13e-02
## 208	1.48e-02	1.43e-02	9.71e-04	-1.21e-02	-1.51e-02	4.02e-02	8.08e-03
## 209	-3.24e-04	-2.26e-04	-5.87e-04	-1.19e-03	5.53e-05	-2.59e-05	-2.14e-04
## 210	-3.33e-03	1.99e-03	1.57e-03	1.20e-03	-2.36e-03	-1.71e-03	-2.03e-03
## 211	-5.04e-02	-8.25e-02	-2.19e-02	-8.65e-02	-2.08e-02	-7.14e-03	1.24e-01
## 212	1.35e-03	-6.83e-03	5.32e-04	-4.02e-04	2.10e-03	-1.78e-03	-1.70e-03
## 213	9.04e-03	5.39e-03	1.02e-02	-3.00e-03	8.09e-03	-1.25e-02	1.43e-02
## 214	3.50e-03	-3.37e-04	7.97e-03	1.44e-02	4.43e-03	-8.27e-03	1.73e-04
## 215	7.79e-02	-5.12e-02	3.06e-02	1.94e-02	1.02e-02	-2.71e-02	-2.34e-02
## 216	-2.59e-02	-1.43e-02	-6.20e-03	-6.87e-03	1.25e-02	7.07e-03	1.03e-03
## 217	-3.17e-02	-2.72e-03	-1.27e-03	-4.93e-02	2.86e-02	1.52e-02	-3.27e-02
## 218	-4.06e-02	-1.72e-02	2.92e-02	-6.68e-02	1.96e-02	-5.65e-02	-8.44e-03
## 219	2.50e-03	3.37e-03	-3.57e-03	-1.49e-03	-3.60e-03	5.22e-03	-1.00e-02
## 220	-2.46e-03	-1.12e-03	-4.78e-05	1.61e-03	6.23e-04	-3.50e-03	-2.60e-03
## 221	-7.27e-05	2.91e-05	9.94e-05	2.01e-04	1.22e-05	2.07e-04	-7.56e-05
## 222	9.57e-03	-2.44e-02	-7.94e-03	-4.18e-03	-1.84e-03	8.41e-04	-4.81e-04
## 223	-2.42e-02	5.54e-03	2.61e-02	-4.22e-03	2.04e-03	-1.79e-02	2.32e-02
## 224	-8.19e-04	-1.52e-03	-5.06e-04	-2.15e-03	-1.28e-03	6.38e-04	-2.77e-04
## 225	2.02e-03	4.58e-03	1.61e-03	-9.40e-04	1.44e-03	-7.46e-04	1.55e-03
## 226	2.36e-03	-1.29e-03	4.34e-03	-1.36e-03	-1.19e-03	1.34e-03	2.82e-04
## 227	4.77e-03	-3.52e-03	-9.83e-03	-3.24e-03	9.74e-03	-6.84e-03	-5.97e-03

## 228	4.14e-03	1.94e-03	1.68e-03	-3.96e-04	-4.86e-03	-1.52e-02	-3.65e-04
## 229	2.09e-03	9.13e-04	4.77e-03	-6.19e-03	-7.71e-05	-1.66e-03	5.44e-03
## 230	6.12e-02	-2.79e-02	-8.49e-03	-4.25e-02	1.74e-02	2.14e-02	-1.65e-02
## 231	9.05e-03	2.12e-03	1.85e-02	1.15e-02	2.37e-03	-6.58e-04	-6.87e-03
## 232	-8.11e-03	-1.97e-02	-2.66e-02	7.20e-04	-2.26e-02	3.42e-02	1.88e-02
## 233	3.72e-03	-1.87e-03	8.86e-03	4.97e-03	3.85e-04	1.95e-04	-2.72e-03
## 234	-1.59e-02	-1.86e-02	3.57e-02	-1.93e-02	-2.19e-02	-3.67e-02	-1.32e-02
## 235	8.67e-02	-4.06e-02	2.97e-02	-1.37e-01	-1.15e-02	2.23e-02	-3.72e-02
## 236	7.74e-03	9.16e-03	-2.04e-03	1.10e-03	1.24e-03	9.95e-03	-1.05e-02
## 237	-2.54e-02	9.04e-02	1.08e-01	1.28e-01	-1.28e-02	3.77e-02	-6.01e-02
## 238	-4.54e-02	-2.40e-02	6.54e-03	-4.92e-02	-9.20e-02	9.21e-02	-5.83e-02
## 239	4.86e-03	9.16e-03	8.07e-05	-3.05e-03	-1.82e-03	-3.57e-04	5.92e-04
## 240	6.26e-02	-1.28e-02	-2.15e-02	-1.08e-01	-3.13e-03	7.84e-03	9.11e-04
## 241	-6.04e-04	-2.48e-04	-7.37e-05	4.03e-04	7.09e-05	-2.42e-04	2.08e-04
## 242	6.25e-04	-6.66e-04	8.35e-04	-3.95e-04	9.06e-06	4.74e-04	-5.28e-04
## 243	9.50e-03	-2.97e-03	-2.48e-02	1.14e-02	4.71e-03	7.14e-03	-1.44e-03
## 244	1.19e-03	-8.09e-04	1.69e-03	-9.68e-04	8.30e-04	-1.61e-03	-1.03e-03
## 245	-1.06e-02	-1.06e-02	-1.39e-02	6.45e-03	6.86e-02	-6.17e-02	-2.74e-02
## 246	6.28e-03	7.84e-03	8.05e-03	-2.66e-03	8.95e-03	3.97e-04	-4.67e-03
## 247	6.33e-03	6.33e-03	7.79e-03	9.82e-03	5.00e-04	-4.26e-04	2.32e-03
## 248	2.55e-03	2.64e-03	-2.01e-03	-7.81e-04	4.51e-03	-3.97e-03	-1.64e-03
## 249	1.02e-02	5.40e-03	-3.95e-02	1.47e-02	7.15e-03	7.18e-03	4.52e-03
## 250	4.10e-03	-2.85e-03	6.12e-03	-2.96e-03	-7.01e-04	1.18e-03	2.43e-03
## 251	-4.45e-02	-7.23e-02	8.92e-02	2.11e-02	-5.83e-02	-2.33e-02	-5.87e-04
## 252	1.20e-02	-5.08e-02	-3.76e-03	-5.65e-03	-2.49e-02	2.94e-02	-3.85e-02
## 253	6.72e-03	-1.04e-02	-2.23e-03	-3.70e-03	1.04e-03	-3.84e-03	3.57e-03
## 254	-3.96e-02	1.47e-02	1.27e-02	-1.01e-02	8.06e-04	9.81e-04	8.93e-03
## 255	-1.32e-03	-5.41e-04	1.07e-03	6.46e-04	-4.81e-04	-4.64e-04	-3.64e-04
## 256	5.29e-03	9.92e-03	1.81e-03	-3.45e-03	-2.23e-03	4.13e-03	-6.87e-04
## 257	-4.01e-02	2.69e-02	2.94e-03	-9.86e-03	2.04e-02	3.49e-03	-3.96e-02
## 258	-4.49e-03	1.02e-02	-1.15e-02	2.95e-03	1.90e-02	-1.07e-02	-9.73e-03
## 259	1.08e-03	1.71e-03	3.57e-03	1.40e-03	-1.04e-03	5.64e-04	3.33e-05
## 260	-3.33e-02	-6.03e-02	-9.60e-04	8.11e-02	-1.00e-02	1.49e-02	-1.74e-02
## 261	1.14e-02	-2.22e-02	5.81e-03	3.94e-02	-1.57e-02	1.49e-02	7.32e-03
## 262	-3.71e-03	4.04e-03	4.32e-03	1.90e-03	-5.68e-03	3.32e-03	1.05e-02
## 263	1.11e-02	7.23e-03	-6.65e-03	-2.79e-03	-7.24e-03	1.27e-02	1.16e-02
## 264	-3.94e-02	2.25e-02	-4.36e-02	2.85e-02	7.53e-02	-2.11e-02	-3.60e-02
## 265	-3.03e-02	-6.02e-02	2.24e-02	-1.28e-01	-1.64e-02	7.18e-04	7.89e-03
## 266	8.69e-03	-1.79e-02	-1.71e-02	-6.53e-03	9.96e-03	8.20e-03	-2.60e-03
## 267	8.69e-03	-2.23e-02	-3.07e-04	-1.00e-02	-3.05e-03	4.80e-02	-3.03e-02
## 268	3.09e-04	6.75e-04	-5.98e-05	-2.23e-04	-7.95e-05	4.57e-04	1.86e-04
## 269	-9.79e-03	1.68e-03	5.55e-03	-3.27e-03	-1.16e-02	9.06e-03	4.52e-03
## 270	-4.92e-03	-9.95e-03	1.14e-02	3.16e-03	-9.16e-03	1.07e-02	1.42e-02
## 271	-1.61e-02	-9.98e-04	-1.01e-03	-3.80e-03	-5.33e-02	2.24e-02	2.74e-02
## 272	9.92e-02	-6.24e-02	-1.31e-01	-5.28e-02	-6.16e-02	1.33e-03	1.09e-01
## 273	-4.52e-04	1.35e-03	1.02e-04	-6.20e-04	3.15e-04	-5.17e-04	-2.65e-04
## 274	-1.90e-03	-8.90e-04	-2.33e-03	4.98e-03	1.45e-03	1.82e-03	-1.90e-03
## 275	1.13e-02	-9.74e-03	-4.80e-03	-2.85e-02	-7.82e-03	6.11e-05	-3.51e-03
## 276	-1.67e-02	-6.61e-03	-1.98e-03	-3.89e-03	1.66e-03	2.24e-03	5.37e-03
## 277	5.17e-03	-5.66e-03	9.36e-03	8.51e-03	2.44e-03	-9.75e-03	-1.07e-02

## 278	-5.18e-02	-7.61e-02	2.93e-02	-1.70e-02	-9.79e-03	8.04e-02	-6.37e-02
## 279	8.21e-03	-1.62e-02	6.26e-03	2.97e-02	2.96e-04	-6.87e-03	4.21e-03
## 280	-2.03e-03	-7.21e-04	1.58e-03	-3.88e-03	-1.95e-03	-1.58e-03	-2.80e-03
## 281	-1.35e-02	-1.59e-03	5.07e-03	9.41e-03	7.38e-03	-3.36e-04	3.62e-03
## 282	-1.65e-04	8.83e-04	3.38e-04	4.75e-05	2.33e-04	9.07e-04	5.36e-04
## 283	7.02e-03	-1.03e-02	-2.64e-03	1.57e-02	3.27e-03	-6.07e-03	1.78e-02
## 284	-1.77e-02	-9.55e-03	1.54e-02	-5.09e-03	-2.21e-03	-4.97e-03	1.57e-02
## 285	-7.92e-02	2.51e-02	1.82e-02	-1.28e-02	3.50e-03	6.90e-03	-2.54e-02
## 286	-5.52e-04	-6.86e-04	1.20e-03	2.52e-04	7.75e-04	1.26e-03	-1.59e-04
## 287	5.86e-02	9.05e-02	1.43e-01	-1.14e-01	-3.15e-02	-1.86e-02	-7.68e-04
## 288	-1.37e-03	-5.38e-04	2.97e-04	6.31e-04	-1.12e-03	-2.14e-04	4.09e-04
## 289	7.85e-02	-3.16e-02	1.75e-02	2.60e-02	5.73e-03	-9.47e-03	-7.25e-03
## 290	5.48e-03	-1.18e-02	-1.37e-04	-2.58e-03	-5.42e-03	1.58e-04	3.52e-03
## 291	-5.03e-02	3.57e-02	1.30e-02	-5.34e-03	4.54e-02	-3.71e-03	7.01e-03
## 292	1.10e-02	1.40e-02	2.81e-03	-8.57e-03	-1.44e-03	5.21e-02	-4.07e-02
## 293	1.27e-02	1.61e-02	1.10e-02	1.84e-02	5.09e-03	-1.20e-03	-8.34e-03
## 294	7.84e-02	-4.14e-02	1.61e-03	1.12e-02	-3.20e-02	4.41e-02	8.56e-02
## 295	-4.82e-02	3.07e-02	2.48e-02	3.02e-02	-1.36e-02	6.09e-03	2.15e-03
## 296	6.70e-03	1.51e-03	1.16e-06	-1.67e-02	-2.34e-02	2.28e-02	5.89e-03
## 297	-3.42e-02	-2.87e-02	1.45e-02	1.21e-02	-6.08e-04	-1.77e-02	1.11e-02
## 298	1.47e-03	1.13e-04	1.93e-03	3.26e-03	2.44e-03	-1.85e-03	-2.31e-03
## 299	7.32e-03	-6.42e-03	4.18e-03	-3.88e-03	-3.49e-03	5.07e-03	2.88e-04
## 300	3.61e-03	-3.74e-03	1.76e-03	-1.87e-03	-8.42e-04	3.68e-03	-2.50e-04
## 301	-6.17e-04	1.09e-03	-5.32e-04	1.87e-05	2.92e-03	8.58e-04	-2.27e-03
## 302	1.65e-02	1.97e-02	-4.59e-03	-5.91e-03	1.29e-04	9.25e-03	-4.62e-03
## 303	6.83e-03	-1.51e-02	8.21e-04	-6.22e-03	-7.65e-03	1.55e-02	1.11e-02
## 304	7.76e-04	1.72e-03	-2.18e-04	1.72e-03	2.00e-03	-8.59e-04	-2.53e-03
## 305	-1.17e-02	1.08e-02	2.97e-03	-1.84e-02	2.59e-02	1.19e-02	-1.57e-02
## 306	-3.51e-04	-2.98e-04	-5.54e-06	2.95e-04	-3.21e-04	7.73e-04	-1.23e-03
## 307	1.63e-03	6.98e-04	-1.10e-03	2.87e-03	-4.90e-04	-7.14e-04	2.39e-04
## 308	9.43e-03	-5.24e-03	-1.12e-02	-3.65e-03	-9.53e-03	-2.92e-02	2.19e-02
## 309	-1.95e-02	9.05e-03	1.39e-02	-4.37e-03	-1.42e-03	-2.50e-03	4.83e-03
## 310	-2.80e-02	1.61e-02	5.52e-04	-8.54e-03	-7.38e-03	8.69e-03	9.08e-03
## 311	1.12e-02	2.10e-02	-1.12e-02	-4.64e-03	9.69e-03	-9.21e-03	-2.79e-03
## 312	6.44e-03	-1.26e-02	-9.75e-03	-5.38e-03	-2.64e-02	1.72e-02	-1.14e-02
## 313	-3.50e-02	-1.97e-02	8.72e-03	5.86e-02	1.02e-02	-2.59e-03	-1.47e-02
## 314	5.62e-03	9.06e-03	6.09e-03	-1.63e-03	8.42e-03	3.48e-03	-1.48e-02
## 315	-3.79e-02	2.78e-03	1.75e-02	-6.15e-03	-1.90e-02	1.67e-02	-3.84e-02
## 316	7.71e-03	-1.04e-02	3.61e-03	-3.31e-03	2.75e-03	-9.93e-03	9.43e-03
## 317	-2.88e-02	1.43e-02	-1.67e-02	-8.06e-03	1.61e-02	2.85e-02	1.32e-02
## 318	-4.37e-02	-2.27e-03	-8.83e-02	-6.42e-02	-1.00e-02	-1.20e-01	1.28e-01
## 319	-5.82e-02	3.06e-02	3.88e-03	3.84e-02	-8.20e-03	-1.10e-02	-3.29e-04
## 320	-4.84e-02	3.20e-02	-1.36e-02	-6.14e-03	4.11e-02	-4.40e-02	-6.67e-02
## 321	-3.50e-02	2.27e-02	1.18e-02	-6.09e-03	5.24e-04	-4.75e-03	1.19e-02
## 322	-7.82e-03	-9.58e-03	1.02e-02	3.12e-03	-1.37e-02	9.79e-03	-6.77e-03
## 323	1.35e-03	-5.82e-04	-4.67e-04	3.46e-03	2.15e-03	-3.24e-03	2.85e-03
## 324	7.10e-02	-3.09e-02	6.86e-03	-3.96e-02	-1.43e-02	-4.82e-03	2.20e-02
## 325	-4.11e-03	-4.47e-03	1.76e-03	2.34e-03	-2.79e-03	2.76e-03	-6.02e-03
## 326	5.45e-03	-2.46e-02	8.33e-03	-1.33e-03	1.44e-02	-6.27e-03	-1.63e-02
## 327	1.05e-02	-1.93e-03	1.72e-02	-1.06e-03	-2.57e-02	1.25e-04	-3.37e-02



## 328	9.14e-02	5.07e-02	4.83e-02	-6.26e-02	-1.22e-02	-3.56e-02	4.97e-04
## 329	1.85e-02	9.84e-03	1.82e-03	3.44e-02	-9.98e-03	-5.28e-02	2.74e-02
## 330	-8.02e-03	-1.18e-02	-3.57e-03	2.32e-03	-1.05e-02	-1.56e-03	-6.82e-04
## 331	7.18e-03	9.88e-03	9.69e-03	-1.41e-02	-1.28e-02	-1.53e-02	1.09e-02
## 332	-3.10e-02	1.05e-02	2.54e-03	-3.31e-03	6.36e-03	-4.81e-03	6.45e-03
## 333	1.31e-02	1.39e-02	-1.90e-02	1.43e-02	9.66e-03	-3.34e-03	8.75e-03
## 334	6.51e-03	-2.48e-03	1.06e-02	1.09e-02	4.44e-04	4.50e-03	1.13e-03
## 335	-3.98e-03	-2.04e-03	-2.13e-03	1.78e-03	-7.64e-03	4.65e-03	1.37e-02
## 336	-4.20e-02	-4.60e-02	4.04e-02	2.72e-02	-4.69e-03	-6.89e-03	1.44e-02
## 337	7.32e-02	-5.14e-02	1.36e-02	-4.75e-02	-3.09e-02	4.93e-02	-4.71e-02
## 338	1.44e-02	-8.80e-03	4.97e-03	-8.89e-03	1.90e-03	4.01e-03	-1.14e-02
## 339	1.13e-03	7.82e-04	-1.59e-04	-1.16e-04	-1.02e-03	-3.14e-03	1.49e-03
## 340	1.47e-03	-2.36e-03	5.29e-04	-9.15e-04	7.59e-04	-2.22e-03	3.73e-03
## 341	-5.43e-03	2.07e-03	-5.28e-03	-6.76e-03	3.73e-03	-5.46e-03	-3.67e-03
## 342	-1.57e-02	3.43e-03	1.22e-02	-2.30e-03	9.27e-03	-1.51e-02	8.56e-03
## 343	-3.15e-02	5.48e-03	1.06e-02	2.12e-02	1.74e-02	-1.37e-02	-1.55e-03
## 344	-3.16e-02	6.01e-03	1.38e-02	-4.09e-03	1.85e-02	-2.03e-02	1.51e-02
## 345	1.79e-04	1.78e-04	-3.63e-05	-1.44e-04	-3.03e-04	5.57e-04	6.88e-04
## 346	7.77e-03	8.86e-03	-2.53e-03	8.94e-03	-3.99e-03	2.89e-03	2.33e-03
## 347	-4.75e-02	-4.96e-04	3.15e-02	-6.88e-03	-3.98e-03	-2.03e-02	8.76e-03
## 348	1.19e-02	-1.97e-02	2.95e-02	-6.28e-03	-3.02e-03	6.97e-03	-2.86e-03
## 349	1.02e-02	6.95e-03	7.07e-03	-5.58e-03	1.16e-02	5.60e-03	1.14e-03
## 350	-1.78e-03	-1.09e-03	-1.86e-03	-3.97e-03	8.32e-04	6.05e-04	-1.78e-03
## 351	-2.98e-02	2.19e-02	2.20e-02	-8.24e-03	-1.13e-02	-3.81e-03	-2.83e-03
## 352	2.71e-03	2.51e-03	-1.41e-03	-2.63e-03	-4.95e-03	1.16e-02	3.18e-03
## 353	1.13e-02	-2.18e-02	5.31e-03	3.72e-02	1.28e-02	2.21e-03	3.84e-04
## 354	-2.45e-02	7.99e-03	-6.40e-03	-6.04e-03	2.11e-02	-7.93e-03	-2.11e-02
## 355	-2.83e-02	1.68e-02	8.24e-03	-2.96e-02	8.11e-03	4.76e-03	-8.62e-03
## 356	1.16e-03	-1.30e-03	-3.07e-04	-5.91e-04	2.52e-03	-6.22e-04	-4.07e-03
## 357	9.16e-03	-3.22e-02	-1.24e-02	-7.26e-03	4.85e-03	7.58e-03	-1.79e-03
## 358	4.45e-02	-2.87e-02	7.02e-03	7.80e-03	-3.65e-03	1.59e-03	3.00e-03
## 359	5.65e-04	1.03e-04	2.74e-04	-2.40e-04	-3.08e-05	4.12e-04	6.67e-05
## 360	1.69e-03	4.86e-03	-1.20e-04	-9.99e-04	3.33e-03	-1.77e-03	6.01e-03
## 361	-5.49e-03	-8.34e-03	-1.44e-03	2.75e-03	-3.07e-03	-9.00e-04	-1.98e-04
## 362	-8.49e-03	3.72e-03	-1.64e-03	-2.53e-03	3.00e-03	-4.00e-03	3.44e-03
## 363	8.37e-03	-4.33e-02	-8.71e-03	2.05e-02	1.44e-04	3.70e-03	-1.02e-02
## 364	7.22e-02	-2.64e-02	-4.87e-02	1.64e-02	2.17e-02	-1.80e-02	-7.02e-04
## 365	4.28e-03	-8.62e-03	-1.70e-02	-2.79e-03	2.27e-03	-2.10e-03	4.21e-03
## 366	-2.76e-03	-2.41e-03	-4.78e-03	8.94e-03	1.52e-03	-3.53e-03	-5.24e-04
## 367	-2.65e-02	3.80e-02	-8.97e-02	1.25e-02	-5.42e-02	3.99e-02	7.90e-02
## 368	1.43e-03	1.67e-04	-1.23e-03	-6.19e-04	1.87e-03	-1.54e-04	2.31e-04
## 369	7.51e-02	-4.81e-02	-4.82e-02	1.71e-02	4.17e-02	3.41e-02	-1.95e-02
## 370	-6.87e-02	-8.55e-03	1.97e-02	-1.40e-02	1.46e-02	-1.44e-03	-2.31e-02
## 371	-3.63e-02	3.73e-03	6.58e-04	1.51e-02	2.25e-02	-2.40e-02	5.52e-03
## 372	1.03e-02	-1.73e-03	-6.24e-03	-5.75e-03	-7.38e-04	4.06e-03	-2.33e-03
## 373	1.36e-02	-2.21e-02	-6.94e-03	-5.41e-03	7.02e-03	-7.23e-04	9.58e-04
## 374	4.55e-04	6.75e-04	9.47e-06	-2.70e-04	-2.61e-04	4.82e-04	2.67e-04
## 375	4.05e-03	-2.09e-03	2.38e-03	-2.20e-03	2.91e-03	-1.10e-03	7.24e-03
## 376	8.92e-03	-2.90e-02	-2.78e-02	-5.08e-03	8.64e-04	1.12e-03	6.41e-03
## 377	-6.49e-03	-1.24e-02	7.60e-03	-9.35e-03	-1.00e-02	9.04e-03	-1.01e-02

## 378	1.59e-03	1.30e-03	-2.86e-04	-7.21e-04	1.08e-03	2.64e-04	-1.33e-03
## 379	9.95e-02	-4.51e-02	-6.71e-04	-4.98e-02	6.66e-03	-3.08e-02	-2.68e-02
## 380	-1.44e-02	6.10e-03	-1.73e-02	-3.85e-03	1.36e-02	-6.31e-03	2.82e-03
## 381	-2.13e-02	9.83e-03	2.66e-03	-2.48e-02	-6.51e-03	1.06e-02	4.43e-03
## 382	7.24e-03	-1.02e-02	7.77e-03	-3.27e-03	-5.99e-03	6.22e-03	-5.16e-06
## 383	-3.36e-02	1.07e-01	3.23e-02	1.19e-02	1.67e-02	1.20e-02	-4.31e-02
## 384	1.04e-02	1.43e-02	-4.24e-03	-7.78e-03	1.71e-03	1.12e-02	-5.77e-03
## 385	8.42e-03	7.68e-03	1.35e-02	1.77e-04	-3.33e-03	-3.09e-02	-3.36e-02
## 386	6.43e-02	9.34e-02	-7.06e-03	1.51e-02	1.38e-02	-1.90e-02	4.05e-04
## 387	3.43e-03	4.23e-03	-7.74e-03	4.05e-03	3.97e-03	1.33e-02	-1.46e-02
## 388	-1.60e-03	-1.70e-03	-1.87e-03	5.58e-04	5.43e-05	7.19e-04	-5.32e-04
## 389	6.52e-03	-3.67e-03	2.50e-03	-3.94e-03	-6.97e-03	3.22e-03	5.74e-04
## 390	-5.16e-02	2.91e-02	-8.57e-02	3.20e-02	2.94e-02	1.82e-02	-2.49e-03
## 391	2.51e-03	4.34e-03	8.93e-04	-1.46e-03	-1.24e-02	1.23e-03	7.48e-03
## 392	5.29e-03	-1.69e-02	-2.79e-02	-3.36e-03	6.97e-03	5.31e-03	-7.73e-04
## 393	3.12e-03	6.41e-03	2.26e-03	6.64e-03	6.05e-03	2.23e-04	1.26e-03
## 394	-1.81e-03	-6.29e-04	-2.22e-03	1.18e-03	-2.48e-05	-1.11e-03	4.05e-05
## 395	4.00e-03	8.34e-03	-5.30e-03	2.46e-02	7.54e-03	-8.19e-03	6.79e-03
## 396	7.18e-03	-1.01e-02	-3.88e-05	-3.27e-03	-4.96e-05	2.01e-03	2.01e-04
## 397	-2.09e-02	3.57e-03	1.45e-02	-6.78e-03	-1.05e-02	6.63e-03	5.21e-03
## 398	-5.75e-02	3.70e-02	1.11e-02	-9.14e-03	4.94e-03	-1.47e-02	3.84e-03
## 399	-3.68e-02	5.79e-03	-1.73e-02	-7.93e-03	1.51e-02	-2.76e-02	-4.35e-02
## 400	1.03e-02	1.25e-02	3.63e-03	-3.85e-03	-2.68e-03	6.11e-03	-1.22e-02
## 401	-1.98e-02	1.07e-03	1.96e-02	-2.99e-03	-3.69e-02	2.25e-03	2.73e-02
## 402	-2.11e-04	-3.56e-04	1.11e-03	-3.57e-04	-1.00e-03	2.25e-04	4.97e-04
## 403	9.72e-03	2.11e-02	1.30e-02	-5.87e-03	9.26e-03	-1.64e-03	-1.81e-02
## 404	-1.77e-03	1.33e-03	-6.77e-03	7.84e-04	1.96e-03	2.22e-03	-5.91e-03
## 405	5.62e-03	6.38e-03	-1.82e-03	-5.00e-03	-1.04e-02	2.65e-02	3.34e-03
## 406	-2.63e-02	-3.84e-02	4.61e-02	2.10e-02	-2.16e-02	3.11e-03	-1.23e-02
## 407	-1.47e-02	3.07e-03	-2.90e-02	-3.21e-03	1.49e-02	-2.83e-03	7.35e-03
## 408	5.17e-03	-1.25e-02	1.27e-03	8.35e-03	1.99e-03	-9.66e-04	2.03e-03
## 409	-1.10e-02	-8.26e-03	2.94e-02	-2.97e-02	-1.91e-02	-7.50e-03	-3.71e-03
## 410	1.22e-02	2.07e-02	-3.50e-02	-6.95e-03	8.94e-03	-1.05e-02	9.64e-03
## 411	1.11e-02	-2.28e-02	-1.39e-02	-2.84e-03	3.04e-03	-1.09e-02	1.13e-02
## 412	7.17e-03	1.05e-02	8.38e-03	2.70e-02	-3.49e-02	2.20e-02	-1.04e-02
## 413	-5.36e-03	-2.82e-03	8.16e-03	-6.79e-03	-2.32e-03	2.90e-03	-9.03e-03
## 414	4.36e-03	7.06e-03	6.93e-03	-9.64e-03	-1.06e-03	-1.91e-03	4.75e-03
## 415	7.57e-02	8.08e-03	2.06e-02	2.00e-02	2.21e-03	-9.50e-03	-2.35e-03
## 416	-5.14e-02	1.39e-02	-3.42e-02	-6.96e-02	3.95e-03	2.30e-02	4.53e-03
## 417	-2.91e-02	-4.37e-02	2.74e-02	-9.49e-03	-1.52e-02	1.51e-02	1.41e-07
## 418	-1.09e-02	-6.22e-03	-3.26e-02	9.85e-04	6.91e-03	4.85e-02	-5.80e-02
## 419	1.06e-02	-2.67e-02	3.62e-03	3.52e-02	-4.07e-03	1.62e-03	1.80e-03
## 420	-8.66e-04	-3.30e-04	1.79e-03	-3.54e-03	-1.99e-04	-3.67e-04	-3.02e-04
## 421	2.31e-03	-3.83e-03	4.57e-03	-1.70e-03	-4.11e-03	7.97e-03	4.88e-03
## 422	-3.92e-02	7.28e-03	3.95e-02	1.07e-01	-1.21e-02	-3.54e-03	1.00e-02
## 423	-2.53e-02	-4.75e-02	1.17e-02	9.24e-02	1.02e-02	-2.50e-02	6.34e-03
## 424	1.72e-03	5.70e-03	2.29e-03	-1.00e-03	5.38e-03	-2.05e-03	-6.10e-03
## 425	7.85e-03	9.64e-03	-2.76e-02	9.02e-03	1.77e-02	2.09e-03	6.34e-04
## 426	1.13e-02	5.68e-04	4.97e-03	-7.14e-03	-3.89e-02	1.49e-02	-4.08e-02
## 427	3.01e-03	2.60e-03	-8.02e-03	5.98e-03	8.78e-04	-1.16e-03	-5.60e-03

## 428	7.80e-03	-1.03e-02	1.18e-02	-2.14e-02	7.32e-03	-9.87e-03	-2.95e-02
## 429	-1.29e-03	-1.22e-03	3.96e-03	1.28e-03	-4.07e-04	-3.26e-03	-5.27e-04
## 430	2.72e-03	2.84e-03	-6.38e-03	1.02e-02	5.43e-03	-1.28e-03	1.98e-03
## 431	2.20e-02	5.00e-03	1.07e-02	-8.16e-03	9.38e-03	-9.57e-03	-2.35e-02
## 432	7.35e-03	1.14e-02	-1.56e-02	-4.06e-03	5.16e-03	3.85e-03	-7.28e-05
## 433	1.64e-03	1.91e-03	-4.09e-03	-1.20e-03	1.92e-03	2.83e-03	-2.95e-03
## 434	-2.30e-02	-1.50e-02	8.34e-04	-6.13e-03	9.84e-03	4.01e-03	-1.09e-03
## 435	-5.13e-03	2.50e-02	-4.80e-03	1.53e-02	7.22e-03	1.91e-03	-1.48e-02
## 436	1.06e-01	-6.18e-02	9.48e-03	1.15e-01	-1.13e-01	-7.07e-04	1.07e-01
## 437	-3.84e-02	-4.64e-02	3.26e-02	2.74e-02	-2.50e-02	5.90e-03	-2.61e-03
## 438	1.16e-02	4.60e-03	3.09e-03	-4.46e-03	-1.84e-03	1.53e-03	-1.15e-03
## 439	-2.12e-02	1.17e-02	1.09e-02	-2.53e-03	-1.41e-02	-2.33e-02	1.50e-02
## 440	-3.66e-02	-5.38e-02	3.25e-02	1.73e-02	-3.31e-02	-2.62e-02	-4.46e-03
## 441	6.83e-02	-1.84e-03	-1.58e-02	1.53e-02	-1.89e-02	-3.82e-03	-1.72e-02
## 442	9.25e-03	-5.55e-03	-1.06e-03	-5.97e-03	-7.02e-04	-8.93e-04	-8.25e-03
## 443	6.15e-03	5.00e-03	1.53e-02	1.36e-02	2.19e-03	2.00e-02	-3.08e-02
## 444	-3.59e-02	1.03e-02	1.95e-02	1.62e-02	-2.09e-02	-7.77e-04	1.05e-02
## 445	-9.49e-04	-6.51e-04	9.47e-05	6.06e-04	-1.52e-03	6.71e-04	2.07e-03
## 446	4.48e-03	-1.60e-02	-2.52e-02	-3.24e-03	2.03e-02	-9.75e-03	-1.03e-02
## 447	-2.98e-03	-1.76e-03	2.54e-03	2.26e-03	5.88e-03	-1.05e-02	-6.00e-03
## 448	1.62e-05	4.36e-05	-4.07e-05	-1.10e-05	4.39e-05	-2.77e-05	-3.35e-05
## 449	1.89e-03	-5.96e-04	7.03e-04	-1.44e-03	-4.36e-03	8.45e-03	1.19e-03
## 450	5.70e-03	9.89e-03	2.99e-03	-3.59e-03	-3.91e-03	7.56e-03	8.63e-03
## 451	-3.56e-02	1.24e-02	-4.89e-03	-3.60e-02	9.28e-03	-9.39e-03	1.49e-02
## 452	-3.47e-02	-3.47e-02	3.49e-02	2.66e-02	1.47e-02	-2.30e-02	-8.73e-03
## 453	-4.28e-03	8.50e-03	-8.87e-03	1.29e-02	-2.73e-03	3.58e-03	-4.14e-05
## 454	6.16e-02	-4.97e-02	3.96e-02	-4.96e-02	2.02e-02	8.92e-02	-2.38e-02
## 455	-1.44e-04	-1.52e-04	1.08e-04	3.27e-04	-6.61e-05	-6.69e-05	3.22e-05
## 456	-3.01e-03	7.43e-03	-1.14e-02	2.06e-03	9.24e-04	-8.37e-03	-3.15e-03
## 457	2.28e-03	-4.88e-03	1.73e-03	3.70e-03	-1.54e-04	-2.17e-03	1.90e-03
## 458	5.08e-02	-8.96e-03	3.11e-04	1.08e-02	1.84e-03	-1.02e-02	5.60e-03
## 459	9.82e-03	3.66e-03	-2.62e-02	-5.53e-03	1.73e-02	8.88e-03	2.21e-03
## 460	-4.63e-02	-6.81e-03	1.80e-02	-7.18e-03	1.10e-02	-2.58e-02	3.08e-02
## 461	1.19e-02	1.75e-02	-1.78e-02	-8.04e-03	9.65e-03	8.49e-03	-4.82e-03
## 462	6.76e-03	-4.21e-03	1.79e-02	-3.08e-03	-3.50e-03	-8.72e-03	9.15e-03
## 463	2.37e-03	2.89e-03	6.27e-04	-9.54e-04	9.17e-04	-1.16e-03	-2.44e-03
## 464	4.05e-02	1.91e-02	-1.42e-02	-6.96e-02	5.47e-03	-6.04e-03	2.49e-04
## 465	1.86e-03	-2.06e-03	6.60e-04	-5.82e-03	-1.73e-04	-2.59e-03	1.06e-03
## 466	1.02e-02	1.90e-02	-4.94e-02	1.40e-02	2.89e-02	-1.55e-03	-1.18e-03
## 467	1.28e-05	-6.65e-06	1.19e-05	-1.72e-06	2.18e-05	-8.34e-05	-4.69e-05
## 468	2.00e-03	3.57e-03	7.84e-03	-1.48e-03	3.44e-03	2.80e-03	-9.70e-03
## 469	-1.58e-02	8.34e-03	-2.96e-03	-3.97e-03	1.41e-02	-9.07e-03	-9.19e-03
## 470	-5.28e-02	-8.41e-02	-2.96e-02	3.08e-02	3.58e-02	-4.84e-02	-2.68e-03
## 471	1.42e-02	1.15e-02	-5.59e-03	-5.34e-03	3.65e-03	1.21e-03	-8.77e-03
## 472	1.35e-03	-1.68e-03	-3.55e-03	-9.15e-04	1.09e-03	1.14e-03	9.09e-06
## 473	6.35e-03	9.84e-03	8.35e-03	1.38e-02	2.80e-03	-7.61e-03	-8.51e-03
## 474	-3.59e-03	-2.02e-03	1.69e-03	-1.17e-03	-1.37e-02	3.87e-03	9.58e-03
## 475	-3.49e-02	2.63e-02	-1.42e-02	-9.91e-03	1.38e-03	-9.95e-03	6.18e-03
## 476	7.60e-03	-2.01e-02	4.75e-03	-3.01e-02	-7.08e-04	7.76e-03	2.59e-03
## 477	1.22e-02	-2.78e-02	3.60e-03	-5.49e-03	-8.08e-03	1.16e-02	-7.33e-04

## 478	9.42e-03	1.06e-02	3.75e-03	-6.65e-03	-7.30e-02	4.82e-02	-8.61e-03
## 479	4.89e-03	1.13e-02	-7.52e-03	-3.81e-03	-1.10e-03	3.14e-03	7.64e-03
## 480	7.15e-02	6.94e-03	2.50e-02	2.01e-02	3.13e-02	-7.12e-03	-9.66e-03
## 481	-2.92e-02	3.75e-02	-3.42e-02	8.51e-02	2.44e-02	-2.82e-02	-3.67e-03
## 482	-4.03e-02	1.59e-02	5.41e-03	-8.37e-03	-2.17e-03	-1.91e-02	9.99e-03
## 483	-4.17e-02	3.48e-02	2.24e-02	-1.52e-01	-2.04e-03	-3.69e-02	1.56e-02
## 484	1.47e-02	1.15e-02	-5.42e-03	-9.46e-03	5.78e-03	1.37e-03	6.42e-03
## 485	-2.62e-03	1.17e-02	7.26e-03	1.10e-02	-8.90e-03	2.92e-03	7.09e-03
## 486	1.01e-02	1.56e-02	-8.03e-03	1.79e-02	-3.30e-03	-1.26e-03	7.96e-03
## 487	-2.79e-02	2.17e-02	-3.42e-02	1.98e-02	5.34e-03	1.22e-02	-2.46e-03
## 488	1.34e-02	1.07e-02	-4.58e-04	-3.55e-02	-7.18e-03	1.20e-02	-1.70e-03
## 489	-2.16e-04	-1.44e-04	-1.93e-04	1.19e-04	6.33e-04	-3.68e-04	-3.86e-05
## 490	-2.83e-02	6.31e-03	-1.49e-02	2.01e-02	2.52e-02	5.07e-03	1.31e-03
## 491	1.56e-02	-1.26e-02	-1.20e-02	2.61e-02	4.61e-03	3.41e-03	-1.40e-03
## 492	-2.24e-02	8.61e-03	1.38e-02	-5.35e-03	1.17e-02	-9.33e-03	-6.44e-03
## 493	3.75e-03	5.45e-03	-9.91e-04	1.26e-02	5.16e-03	-4.30e-04	2.77e-03
## 494	7.93e-03	2.03e-02	7.30e-03	-2.91e-02	7.47e-03	-6.50e-04	3.51e-03
## 495	-3.06e-02	-1.65e-02	-3.24e-03	-1.06e-02	-1.60e-02	2.59e-02	1.55e-02
## 496	-4.56e-02	-7.65e-02	1.07e-02	2.51e-02	2.40e-02	1.02e-02	-2.51e-02
## 497	1.52e-02	2.75e-02	-3.67e-03	-9.16e-03	-2.20e-03	5.13e-03	-3.52e-03
## 498	1.91e-03	-1.08e-03	1.66e-03	2.17e-03	-2.16e-03	-1.67e-05	-4.43e-04
## 499	7.21e-03	-2.03e-02	-6.25e-03	-5.70e-03	5.59e-03	3.15e-03	-1.05e-02
## 500	3.16e-03	3.38e-03	4.09e-03	-1.91e-03	-3.98e-03	6.02e-03	-3.22e-04
## 501	-3.91e-02	2.10e-02	2.01e-02	2.29e-02	1.78e-03	-3.04e-03	1.64e-02
## 502	1.04e-02	-2.01e-02	8.76e-03	-3.68e-03	-5.84e-03	6.50e-03	-5.17e-04
## 503	3.14e-03	-7.21e-03	1.91e-03	-9.27e-03	1.68e-04	3.78e-03	-6.76e-03
## 504	1.81e-03	3.40e-03	-1.63e-03	3.35e-03	3.40e-03	-2.86e-03	-6.05e-03
## 505	-3.18e-02	-2.08e-02	-8.22e-02	1.60e-02	8.50e-03	2.93e-03	-8.50e-03
## 506	-3.15e-02	1.22e-02	5.80e-04	-8.56e-03	-3.38e-03	4.32e-03	4.78e-03
## 507	-4.62e-04	7.49e-06	-1.15e-03	1.89e-04	-6.50e-04	-1.14e-05	1.23e-03
## 508	6.69e-03	2.73e-03	5.94e-03	1.11e-02	-1.38e-02	1.65e-02	2.49e-04
## 509	1.17e-02	1.36e-02	-1.59e-02	-6.48e-03	8.00e-04	-1.83e-02	-4.63e-02
## 510	1.32e-03	-3.44e-03	-9.80e-04	4.22e-03	2.52e-04	-3.02e-03	4.57e-04
## 511	3.19e-03	3.07e-04	4.86e-03	-7.58e-03	-9.20e-04	-5.06e-03	-6.84e-03
## 512	-4.43e-02	3.40e-02	-1.80e-02	-1.27e-02	1.74e-02	-2.00e-04	9.81e-03
## 513	1.33e-02	1.64e-02	-7.78e-03	-9.71e-03	-1.18e-02	2.93e-03	-2.99e-03
## 514	6.99e-02	-5.04e-02	7.95e-03	1.88e-02	3.82e-03	-3.59e-02	2.38e-02
## 515	5.42e-02	-3.65e-02	1.06e-02	1.20e-02	-2.51e-02	2.26e-02	6.69e-02
## 516	3.80e-03	-4.46e-03	5.76e-03	-2.26e-03	-3.92e-03	4.16e-03	5.95e-04
## 517	4.90e-03	-2.87e-03	-9.06e-03	-2.24e-02	-2.80e-03	3.88e-03	2.82e-03
## 518	6.00e-04	-1.93e-03	3.29e-04	-2.24e-04	-1.71e-04	4.17e-04	-1.26e-04
## 519	3.03e-03	-6.16e-03	3.11e-03	-5.73e-04	7.23e-04	-5.81e-03	4.88e-03
## 520	7.95e-03	-9.46e-03	-1.10e-02	-4.45e-03	4.08e-03	-4.60e-03	6.54e-03
## 521	5.74e-04	9.03e-04	3.50e-04	-4.02e-04	6.63e-04	7.34e-05	-4.77e-04
## 522	-1.19e-02	-1.17e-02	2.51e-03	-2.46e-03	-1.20e-03	-3.01e-03	5.31e-03
## 523	3.19e-03	-1.86e-03	3.03e-03	-1.81e-03	-1.96e-03	2.17e-03	-2.99e-04
## 524	-1.30e-02	1.14e-02	-8.32e-03	-6.69e-03	-2.54e-02	5.98e-03	1.06e-02
## 525	6.30e-03	3.42e-03	1.40e-02	-1.85e-02	1.21e-02	-3.02e-03	-1.87e-02
## 526	-2.60e-02	-1.49e-02	-1.04e-02	1.21e-02	-6.26e-03	1.30e-02	4.01e-02
## 527	9.09e-03	1.30e-02	-1.73e-02	-5.24e-03	-1.58e-02	2.21e-02	-2.96e-02

## 528	9.79e-04	1.25e-03	2.16e-04	1.65e-03	-4.57e-05	-7.41e-04	1.90e-03
## 529	8.53e-02	-2.38e-02	5.83e-02	2.53e-02	-4.59e-02	6.91e-03	-1.28e-02
## 530	2.84e-05	3.40e-05	4.03e-05	5.62e-05	1.59e-05	-3.53e-05	4.48e-05
## 531	6.00e-04	1.42e-03	6.99e-04	-9.46e-05	2.02e-04	-9.22e-04	1.80e-03
## 532	2.68e-03	2.96e-04	4.29e-03	-1.04e-03	7.90e-03	-2.78e-03	-8.44e-03
## 533	4.50e-03	6.36e-03	-1.11e-02	-2.00e-03	8.79e-03	-6.67e-03	4.98e-03
## 534	-2.62e-02	-2.60e-02	-2.53e-03	-2.11e-03	-2.02e-03	-2.53e-02	3.76e-02
## 535	-9.79e-03	1.46e-02	3.83e-02	6.22e-03	-1.44e-02	-1.51e-02	-1.65e-03
## 536	6.48e-03	-1.82e-03	8.87e-03	9.96e-03	-1.54e-02	1.39e-02	-2.16e-02
## 537	1.18e-02	9.69e-03	3.88e-02	-9.89e-03	5.85e-03	-4.67e-04	-1.13e-02
## 538	6.18e-03	-1.58e-02	6.18e-03	1.24e-02	2.42e-03	-6.31e-03	8.47e-03
## 539	-6.51e-03	-6.20e-03	-1.37e-02	1.58e-03	2.29e-02	-1.35e-02	-1.89e-02
## 540	3.25e-03	4.73e-04	7.85e-03	-1.59e-03	1.85e-04	3.26e-04	-1.84e-03
## 541	6.47e-02	-2.43e-02	4.10e-02	1.15e-02	-4.34e-02	3.48e-02	6.23e-03
## 542	-3.84e-04	-5.81e-04	-1.50e-03	1.89e-04	-5.15e-05	1.54e-03	-1.70e-03
## 543	-4.09e-02	3.69e-03	8.80e-03	-4.04e-02	7.38e-03	1.06e-02	-9.55e-04
## 544	1.43e-02	1.94e-02	5.47e-03	-1.36e-02	-7.13e-04	1.28e-02	8.36e-03
## 545	-2.71e-02	9.57e-03	-1.35e-02	1.64e-02	-2.46e-02	8.49e-02	-4.00e-02
## 546	3.42e-03	-1.06e-02	-1.36e-03	5.34e-03	6.00e-03	-1.92e-03	-8.83e-03
## 547	1.21e-02	2.06e-02	1.37e-02	-7.21e-03	-9.30e-03	9.09e-03	-2.27e-03
## 548	7.81e-02	-5.16e-02	-1.54e-02	2.97e-02	-2.26e-02	-5.17e-03	3.29e-02
## 549	8.30e-03	-6.54e-03	1.14e-02	-3.16e-03	5.09e-03	1.68e-03	-3.90e-03
## 550	1.07e-02	2.03e-02	-1.96e-03	-7.72e-03	1.02e-03	2.03e-02	-2.26e-02
## 551	7.83e-03	5.55e-03	-1.11e-02	-2.80e-02	-4.91e-03	-7.83e-04	7.43e-03
## 552	2.77e-03	-2.12e-04	-7.96e-05	1.07e-02	-3.07e-04	3.49e-03	-9.26e-04
## 553	-7.81e-03	-1.11e-02	1.98e-02	-1.19e-02	6.42e-04	1.41e-02	-9.02e-03
## 554	-4.19e-02	-3.77e-02	2.39e-02	2.83e-02	-3.62e-03	9.93e-03	-1.15e-02
## 555	1.21e-02	-2.01e-02	3.43e-04	5.05e-02	1.09e-02	-1.33e-02	2.02e-02
## 556	4.68e-03	1.62e-03	3.31e-03	-2.28e-03	1.02e-03	1.42e-03	-4.42e-03
## 557	6.83e-04	-5.07e-04	-1.61e-03	-3.14e-04	1.04e-03	6.88e-05	-5.91e-04
## 558	-2.22e-03	-4.10e-03	8.62e-03	6.43e-03	-1.93e-03	-2.44e-03	9.82e-05
## 559	8.17e-03	2.68e-03	3.08e-04	-4.63e-03	6.37e-03	-1.20e-02	-2.60e-03
## 560	-3.35e-02	1.26e-02	1.79e-03	5.66e-02	3.16e-03	8.72e-03	1.24e-03
## 561	9.37e-03	3.53e-03	7.78e-04	-4.09e-03	5.18e-03	4.78e-03	-1.80e-03
## 562	-4.67e-03	-6.83e-03	3.17e-03	1.50e-02	3.71e-02	-3.10e-02	-2.57e-02
## 563	9.10e-02	-3.37e-02	3.20e-02	-6.35e-02	-6.11e-02	6.59e-02	7.82e-02
## 564	1.09e-02	-3.16e-02	5.44e-03	1.74e-02	-1.66e-04	-7.73e-03	5.69e-03
## 565	1.38e-02	1.52e-02	3.10e-02	-4.37e-03	-1.35e-02	-3.63e-02	-7.94e-04
## 566	9.30e-03	-1.48e-02	1.87e-03	-6.38e-03	1.11e-03	-1.97e-03	2.31e-03
## 567	6.89e-02	-4.52e-02	-7.29e-02	1.95e-02	4.29e-03	2.39e-02	-1.45e-02
## 568	1.23e-03	-3.64e-03	1.87e-03	-3.06e-04	-1.16e-04	-1.03e-03	7.67e-04
## 569	1.14e-01	-3.53e-02	-4.35e-02	1.91e-02	-8.17e-02	-4.23e-02	-2.84e-02
## 570	2.72e-03	2.30e-03	1.44e-02	-2.80e-03	1.19e-03	-4.06e-03	1.70e-02
## 571	-5.35e-03	3.44e-03	-1.26e-02	3.24e-03	3.98e-03	5.86e-04	-2.04e-03
## 572	1.84e-02	1.05e-02	-1.14e-02	-8.56e-03	1.05e-02	-9.06e-03	-1.66e-02
## 573	9.86e-03	1.40e-02	-1.20e-02	1.75e-02	-8.17e-03	-2.38e-02	9.56e-03
## 574	-3.77e-02	3.10e-02	-1.26e-02	-6.91e-02	4.03e-03	1.13e-02	-5.56e-03
## 575	4.67e-03	-2.02e-03	-8.65e-03	-3.18e-03	1.23e-03	2.53e-03	-5.14e-04
## 576	-2.68e-02	1.99e-02	3.29e-02	-7.45e-03	-7.90e-04	2.23e-03	4.46e-03
## 577	6.89e-03	-1.12e-02	2.45e-03	-2.43e-03	-4.69e-03	3.11e-03	-2.46e-04

## 578	-4.09e-02	1.37e-02	1.25e-02	2.85e-02	6.62e-04	3.45e-03	-2.91e-02
## 579	-6.38e-02	2.68e-02	-2.35e-02	-1.42e-02	-1.15e-03	2.34e-02	1.05e-02
## 580	1.41e-02	2.71e-02	1.05e-02	-4.21e-03	-4.33e-03	-2.31e-02	1.17e-02
## 581	6.51e-03	-1.53e-03	8.78e-03	1.17e-02	-3.23e-03	2.32e-04	3.41e-03
## 582	7.10e-03	-1.54e-02	-6.72e-03	-3.25e-03	3.76e-03	1.24e-03	2.96e-03
## 583	1.28e-04	-5.62e-04	2.23e-04	-5.22e-05	5.69e-05	-1.11e-04	3.72e-06
## 584	5.36e-03	-4.88e-03	7.61e-03	-2.78e-03	-5.48e-04	2.57e-03	-6.01e-04
## 585	6.86e-03	2.70e-03	9.49e-03	1.00e-02	-1.60e-02	1.84e-02	-2.59e-02
## 586	8.90e-02	8.94e-02	-6.37e-04	2.16e-02	1.56e-02	-3.22e-02	1.15e-02
## 587	7.35e-03	1.53e-02	1.97e-03	-4.20e-03	-3.94e-03	6.57e-03	-1.32e-04
## 588	-4.63e-03	8.59e-03	-8.67e-03	2.94e-03	3.11e-03	-6.20e-03	-6.19e-04
## 589	-7.46e-03	1.98e-03	2.49e-02	3.40e-03	-1.85e-02	1.48e-03	-7.15e-03
## 590	6.81e-02	-4.62e-02	-2.68e-02	1.50e-02	1.62e-02	-1.86e-02	-1.17e-03
## 591	-2.41e-03	-4.97e-03	-1.40e-03	7.01e-03	6.74e-04	4.04e-03	-2.93e-03
## 592	-2.39e-02	-2.15e-03	-3.24e-02	1.24e-02	1.23e-03	3.51e-03	-1.67e-02
## 593	-1.44e-02	1.05e-02	3.08e-03	1.45e-02	-4.51e-02	-3.01e-02	2.32e-02
## 594	-3.28e-04	-1.21e-05	-1.48e-04	1.19e-04	2.66e-04	5.36e-04	-7.52e-04
## 595	-2.36e-03	8.81e-03	3.29e-03	1.77e-03	2.16e-03	1.05e-03	-4.63e-03
## 596	9.46e-02	-3.92e-02	8.26e-02	1.07e-02	1.50e-01	6.51e-02	7.78e-02
## 597	3.49e-03	2.86e-03	-1.70e-03	-1.93e-03	1.61e-03	8.61e-04	-3.19e-03
## 598	-2.04e-02	8.46e-03	1.22e-02	-4.74e-03	-1.09e-03	-2.20e-03	7.44e-03
## 599	-4.18e-02	2.94e-02	1.03e-02	-6.71e-02	-1.41e-02	9.79e-03	3.66e-02
## 600	5.20e-03	5.37e-03	-2.35e-03	-3.83e-03	-3.14e-03	6.22e-03	4.31e-03
## 601	6.05e-04	1.06e-03	-6.84e-04	-1.69e-04	7.13e-04	-2.67e-03	-3.60e-04
## 602	2.24e-02	1.46e-02	-2.56e-03	-1.23e-02	6.13e-03	1.15e-02	1.67e-03
## 603	-4.92e-02	-7.80e-02	-4.43e-02	3.40e-02	2.51e-02	9.09e-03	-4.73e-03
## 604	1.35e-02	7.43e-03	4.41e-02	-7.34e-03	-1.28e-02	5.92e-03	7.03e-05
## 605	7.27e-03	9.64e-03	1.07e-02	1.35e-02	1.32e-02	-8.31e-03	-1.95e-02
## 606	1.95e-02	2.30e-03	-1.84e-02	3.30e-02	1.37e-02	-1.19e-02	4.98e-03
## 607	1.90e-02	-4.16e-03	4.07e-03	-9.47e-03	-9.61e-03	1.15e-02	3.16e-03
## 608	-4.98e-02	6.42e-02	-2.08e-01	1.55e-01	-5.46e-02	4.03e-02	1.33e-01
## 609	-5.27e-02	1.61e-02	-9.26e-02	-8.35e-02	1.07e-02	7.74e-02	1.12e-01
## 610	5.58e-03	-2.14e-02	-6.36e-03	-2.47e-03	2.54e-03	3.88e-03	6.70e-04
## 611	-1.79e-02	-2.64e-03	1.15e-02	-1.95e-03	9.01e-03	-1.23e-02	1.51e-02
## 612	6.60e-04	-1.94e-03	-9.22e-04	-2.02e-03	4.98e-04	1.50e-04	6.98e-04
## 613	-4.73e-02	-3.64e-02	3.18e-04	-6.97e-03	1.65e-02	-1.62e-02	-4.56e-02
## 614	3.26e-03	-4.56e-03	2.62e-03	1.11e-02	-1.08e-03	9.90e-05	1.41e-03
## 615	8.56e-02	-1.97e-02	4.15e-02	1.68e-02	-2.76e-02	4.02e-02	-4.06e-02
## 616	7.76e-04	1.51e-03	3.76e-04	1.43e-03	-6.83e-05	4.16e-04	-2.46e-05
## 617	-2.07e-03	-1.78e-03	1.28e-03	-2.68e-03	3.74e-04	-1.04e-02	-3.23e-03
## 618	9.43e-03	1.01e-02	9.06e-03	1.43e-02	-1.99e-03	5.30e-03	-2.61e-03
## 619	1.32e-02	1.45e-02	-1.68e-02	3.19e-02	-9.77e-03	-1.76e-02	1.15e-02
## 620	-4.61e-04	2.51e-03	-3.41e-04	3.04e-04	-2.21e-04	1.20e-03	-1.52e-03
## 621	2.50e-02	4.25e-02	1.56e-02	3.54e-02	-2.64e-02	-3.52e-02	1.33e-02
## 622	-1.44e-02	3.20e-03	-7.68e-03	9.09e-03	2.57e-04	-1.68e-02	7.79e-03
## 623	4.53e-03	7.19e-03	-1.88e-04	7.40e-03	-1.11e-03	2.44e-03	2.81e-03
## 624	1.14e-02	1.41e-02	-1.71e-02	1.57e-02	4.29e-03	-8.32e-03	9.19e-03
## 625	-2.55e-02	-9.95e-03	-6.97e-02	-9.37e-03	2.70e-02	8.82e-03	8.74e-03
## 626	-2.00e-02	1.05e-02	-5.72e-03	-4.16e-03	6.02e-03	-8.18e-03	9.16e-03
## 627	5.46e-04	6.83e-04	-1.87e-04	9.63e-04	-1.14e-05	7.99e-05	1.15e-04

## 628	2.09e-03	-4.08e-03	-5.54e-03	-4.53e-04	5.83e-04	-4.87e-03	3.25e-03
## 629	6.14e-03	-8.11e-03	-2.73e-04	-2.31e-03	1.14e-03	3.81e-03	-9.96e-05
## 630	5.78e-03	5.68e-03	-7.99e-04	-4.65e-03	-3.05e-03	9.69e-03	3.18e-03
## 631	5.87e-03	-1.57e-02	3.91e-04	2.14e-02	4.16e-03	1.71e-03	-4.92e-03
## 632	-2.84e-02	-4.00e-02	-5.25e-03	1.42e-02	-1.85e-03	2.59e-03	4.16e-03
## 633	-5.43e-02	1.49e-02	8.67e-04	-1.89e-02	1.09e-02	1.69e-02	-2.24e-02
## 634	8.71e-03	-2.75e-02	6.98e-03	-7.54e-03	-8.30e-03	-5.46e-03	1.15e-02
## 635	-4.60e-02	-2.53e-02	5.48e-03	-4.82e-03	-7.31e-03	1.50e-03	1.46e-02
## 636	-9.17e-03	-6.78e-03	7.50e-04	-1.10e-03	6.97e-03	-7.52e-03	3.26e-03
## 637	6.20e-02	5.21e-02	1.86e-02	-3.87e-02	6.65e-03	-9.25e-02	7.85e-02
## 638	-4.29e-03	-5.59e-03	2.65e-06	2.27e-03	2.77e-03	-6.56e-03	-1.30e-03
## 639	6.64e-03	1.02e-02	3.05e-03	-2.23e-02	-6.17e-03	8.78e-03	6.94e-03
## 640	3.37e-03	-7.54e-04	5.93e-03	-2.38e-03	-4.10e-03	1.76e-03	2.50e-03
## 641	5.28e-03	-3.31e-03	-1.00e-02	1.19e-02	1.60e-03	1.06e-02	-8.29e-03
## 642	1.08e-02	5.47e-03	1.64e-03	-2.37e-03	-5.51e-03	-2.49e-02	-9.44e-03
## 643	9.27e-03	-1.64e-02	1.70e-02	-5.75e-03	1.36e-03	3.97e-04	-2.31e-03
## 644	-1.13e-02	4.25e-03	-1.11e-02	6.76e-03	2.95e-03	9.82e-04	5.99e-04
## 645	-2.11e-02	-1.43e-02	-9.45e-03	-6.46e-03	-1.01e-02	-2.71e-03	9.39e-03
## 646	8.49e-02	5.63e-02	1.12e-02	1.99e-02	-1.15e-03	-3.29e-03	-1.26e-02
## 647	-1.11e-03	-6.86e-04	4.49e-03	8.93e-04	-3.21e-03	-2.02e-03	1.36e-03
## 648	2.79e-03	-7.10e-04	8.19e-05	-7.80e-04	1.56e-03	-4.83e-03	1.44e-03
## 649	9.62e-03	2.41e-03	-8.27e-03	-4.71e-03	-7.61e-03	-7.72e-03	7.27e-03
## 650	-5.23e-03	5.02e-03	1.68e-02	1.69e-03	-1.04e-02	7.26e-03	-3.91e-03
## 651	4.33e-03	2.80e-03	-7.22e-04	5.79e-03	-5.19e-04	1.97e-03	-7.33e-04
## 652	-2.04e-02	-2.27e-02	1.71e-02	-4.40e-03	1.20e-02	-4.42e-04	-2.15e-02
## 653	-5.61e-02	2.06e-02	3.67e-02	-1.73e-02	-3.14e-02	8.46e-02	2.88e-02
## 654	4.69e-03	7.35e-03	-1.28e-03	-4.32e-03	-3.63e-02	2.46e-02	-1.82e-02
## 655	-3.57e-03	-6.10e-03	3.41e-03	1.80e-03	-2.30e-03	4.84e-04	-3.36e-03
## 656	-2.26e-02	1.56e-02	-5.08e-03	-2.69e-02	-2.61e-04	1.02e-03	5.60e-03
## 657	5.51e-02	8.07e-02	-3.72e-02	-8.21e-02	8.63e-03	-1.27e-02	2.61e-03
## 658	6.03e-03	4.27e-03	-9.54e-03	-4.84e-03	2.16e-03	-2.95e-04	3.36e-03
## 659	-5.63e-02	2.21e-02	2.22e-02	-1.23e-02	-1.56e-02	-4.57e-02	-5.73e-02
## 660	7.65e-03	4.60e-03	1.24e-02	-4.84e-03	-6.51e-03	2.97e-03	4.26e-03
## 661	7.25e-02	-1.97e-02	-1.48e-01	-5.49e-02	3.22e-02	-1.70e-02	-5.75e-03
## 662	5.46e-03	-1.70e-02	1.69e-02	-1.79e-02	-4.42e-03	5.72e-03	-7.26e-04
## 663	-3.38e-02	-3.15e-02	1.53e-02	-6.65e-02	-1.39e-02	1.01e-02	-1.07e-02
## 664	-5.07e-02	6.39e-02	-6.30e-03	-6.40e-02	2.92e-02	-3.62e-02	8.44e-03
## 665	-1.74e-02	-4.86e-03	-7.94e-03	9.30e-03	-5.09e-03	6.39e-03	3.90e-03
## 666	-3.67e-02	-1.78e-02	5.26e-02	2.42e-02	-1.05e-02	1.90e-03	-1.75e-03
## 667	1.02e-01	6.41e-02	9.87e-04	9.85e-02	3.51e-03	-2.01e-02	-1.36e-02
## 668	7.80e-02	-3.68e-02	8.10e-03	-5.58e-02	2.82e-02	1.08e-01	-2.77e-02
## 669	3.90e-03	-4.60e-03	-3.91e-03	-2.32e-03	2.65e-03	1.36e-03	-4.20e-03
## 670	7.86e-02	8.43e-02	1.07e-02	-1.27e-01	-2.05e-02	-2.38e-03	2.86e-02
## 671	1.13e-02	-2.16e-02	9.95e-03	-5.92e-03	-6.42e-03	1.15e-04	-9.87e-04
## 672	9.57e-03	3.97e-03	1.55e-02	-5.78e-03	-6.27e-03	7.91e-03	-7.68e-03
## 673	9.87e-03	-6.41e-03	8.34e-03	-3.93e-03	6.07e-04	-7.55e-03	1.02e-02
## 674	-6.42e-02	4.39e-02	1.32e-03	-1.47e-02	-2.52e-03	-8.22e-04	1.11e-02
## 675	-2.14e-02	8.51e-03	-1.24e-02	-8.92e-03	1.45e-03	2.40e-02	8.22e-03
## 676	7.99e-03	1.88e-03	-3.02e-02	-2.46e-02	7.55e-03	-1.89e-02	-1.46e-02
## 677	-1.92e-02	-3.46e-02	3.33e-03	3.14e-02	-7.59e-03	-2.04e-04	1.61e-02

## 678	2.79e-03	4.55e-03	-7.23e-03	4.69e-03	-1.84e-02	1.96e-03	1.17e-02
## 679	3.92e-03	-1.47e-03	-4.79e-03	3.71e-03	1.26e-03	2.20e-03	-4.22e-04
## 680	-5.43e-04	-5.88e-04	-9.08e-05	-9.47e-04	9.30e-04	1.57e-03	-1.03e-03
## 681	1.04e-02	-1.16e-02	-2.66e-04	-5.94e-03	-1.78e-02	2.97e-03	8.90e-03
## 682	-4.69e-03	-5.17e-03	-9.53e-03	1.60e-03	-4.69e-03	1.17e-02	-2.72e-03
## 683	3.41e-03	-8.24e-03	-8.25e-04	-2.72e-03	-3.92e-03	7.93e-03	1.75e-03
## 684	6.49e-02	2.93e-02	-1.42e-02	1.76e-02	1.75e-02	-2.56e-02	-7.65e-05
## 685	1.14e-02	1.54e-02	1.05e-02	2.02e-02	7.46e-03	5.22e-03	1.94e-05
## 686	1.18e-02	1.94e-02	4.27e-03	-2.67e-03	1.38e-02	-2.28e-02	2.53e-02
## 687	-2.63e-02	9.93e-03	-2.26e-02	-5.95e-03	1.28e-02	-1.56e-02	2.85e-02
## 688	1.89e-03	-5.40e-03	-6.16e-03	-1.36e-03	1.62e-03	-1.49e-03	7.33e-04
## 689	5.35e-02	-2.03e-02	7.00e-03	6.03e-02	8.75e-03	-1.82e-02	8.17e-04
## 690	-2.03e-02	5.26e-02	2.96e-04	1.13e-02	1.61e-02	-1.57e-02	3.76e-03
## 691	-3.41e-02	2.62e-02	-2.96e-03	5.85e-02	1.64e-02	-1.53e-02	-4.47e-02
## 692	-3.60e-02	9.11e-03	3.38e-02	-1.22e-02	-9.37e-03	2.35e-03	2.61e-03
## 693	4.61e-03	7.10e-03	4.31e-03	-1.42e-02	9.81e-04	-8.92e-03	-1.14e-02
## 694	1.04e-01	-6.89e-02	-1.34e-02	2.05e-02	8.39e-02	-1.88e-02	-5.01e-02
## 695	9.50e-03	5.44e-03	1.63e-02	-7.00e-03	-7.52e-03	2.54e-02	-1.75e-04
## 696	-3.27e-02	-5.87e-02	4.20e-03	-1.33e-01	4.07e-02	-1.71e-01	1.70e-01
## 697	-3.45e-03	-7.78e-03	-8.78e-03	-8.94e-03	-1.19e-04	4.84e-03	-1.09e-02
## 698	9.91e-03	1.91e-03	3.77e-03	-6.08e-03	-6.34e-03	9.81e-03	2.94e-03
## 699	5.33e-03	-1.79e-03	8.32e-03	-2.71e-03	-9.31e-03	2.61e-03	1.71e-04
## 700	-1.16e-02	-1.60e-03	9.72e-03	-1.83e-02	-3.76e-02	1.14e-02	2.12e-02
## 701	-5.98e-02	1.81e-01	-1.07e-01	2.92e-02	4.29e-02	-3.18e-02	-4.30e-03
## 702	-3.71e-03	-2.46e-03	-4.95e-03	7.95e-03	1.76e-03	1.09e-02	1.85e-02
## 703	6.89e-04	1.22e-03	3.39e-04	-2.17e-03	1.13e-03	1.35e-03	-2.52e-03
## 704	-3.50e-02	1.38e-02	2.13e-02	-5.86e-03	-2.36e-03	-1.84e-03	5.31e-03
## 705	-1.17e-02	-8.81e-03	-9.02e-03	2.77e-03	-9.47e-03	2.33e-02	-2.56e-02
## 706	4.36e-04	-9.01e-04	1.75e-03	-2.54e-04	1.99e-04	-9.40e-04	1.25e-03
## 707	9.40e-02	6.64e-03	9.35e-02	-5.73e-02	-5.95e-02	-2.17e-02	-8.25e-04
## 708	-1.12e-02	-8.58e-03	-4.26e-03	-1.48e-02	-1.75e-02	-3.73e-03	1.13e-02
## 709	-3.88e-03	-7.99e-03	5.40e-03	3.81e-03	-8.96e-03	9.10e-03	-9.78e-03
## 710	7.17e-02	7.25e-02	-4.99e-03	1.17e-02	3.98e-03	-2.04e-03	-1.47e-03
## 711	5.23e-03	9.35e-03	1.60e-02	1.75e-04	-4.41e-03	-1.39e-02	-6.19e-03
## 712	5.90e-02	5.21e-02	-5.99e-03	1.28e-02	1.03e-03	-1.28e-02	5.19e-03
## 713	1.03e-02	-1.11e-02	3.22e-03	-6.41e-03	-2.76e-03	8.08e-04	4.55e-03
## 714	-7.37e-03	-2.42e-03	-3.81e-03	3.82e-03	5.87e-03	2.22e-04	-4.17e-03
## 715	-1.66e-02	3.58e-02	5.15e-02	-2.03e-02	-3.32e-02	7.39e-03	-5.56e-03
## 716	-3.56e-02	1.09e-02	1.86e-02	-4.86e-03	-9.99e-03	-1.80e-02	9.53e-03
## 717	-5.78e-03	5.98e-03	-1.83e-02	1.77e-02	-4.18e-03	3.89e-02	-3.52e-02
## 718	9.11e-03	5.86e-03	-2.57e-03	-5.74e-03	3.95e-03	3.87e-03	-8.25e-03
## 719	-2.08e-02	2.55e-03	1.24e-02	-3.00e-03	2.05e-03	-1.21e-02	1.83e-02
## 720	-2.24e-02	-9.20e-03	2.13e-02	-8.22e-03	-2.06e-02	3.62e-02	1.08e-02
## 721	7.20e-02	-5.42e-02	2.80e-02	2.06e-02	3.26e-02	-6.88e-03	-2.09e-02
## 722	-4.68e-03	-2.25e-03	9.34e-04	-6.30e-04	6.04e-04	-7.21e-03	4.58e-03
## 723	1.02e-02	-5.39e-03	1.41e-02	1.30e-02	-4.04e-03	6.47e-03	2.98e-03
## 724	-1.01e-02	-7.86e-03	-1.83e-02	3.14e-03	-8.73e-03	1.26e-02	-1.74e-02
## 725	8.22e-03	-2.30e-04	1.15e-03	-3.42e-03	-5.51e-05	6.69e-03	-9.69e-03
## 726	6.66e-02	1.12e-01	-2.86e-02	-1.12e-01	2.27e-02	-3.14e-03	-2.01e-02
## 727	8.02e-03	1.06e-02	1.34e-02	-2.31e-03	-1.99e-03	-7.13e-04	7.61e-03



## 728	7.09e-03	1.77e-03	-7.40e-03	-3.91e-03	7.54e-04	5.00e-03	-2.77e-03
## 729	-7.68e-03	-1.49e-02	3.07e-03	5.24e-03	-5.78e-03	3.98e-03	-1.65e-02
## 730	-4.11e-02	3.10e-02	3.89e-03	3.54e-02	-3.87e-02	-4.80e-02	-5.96e-02
## 731	-3.73e-02	1.69e-02	2.28e-02	2.60e-02	1.42e-02	-2.08e-02	1.81e-02
## 732	5.47e-02	9.02e-04	-2.40e-03	1.12e-02	1.17e-02	-1.62e-02	2.64e-03
## 733	-2.96e-02	2.64e-02	-6.25e-03	1.17e-02	2.82e-03	8.75e-04	1.33e-03
## 734	-6.75e-03	-8.24e-03	2.07e-03	1.95e-03	4.34e-03	1.13e-02	-6.65e-03
## 735	1.78e-02	1.53e-03	-1.47e-02	4.03e-02	-6.11e-03	-1.55e-02	3.41e-03
## 736	1.09e-02	1.34e-02	-3.91e-02	-7.56e-03	2.81e-02	-2.47e-03	-1.26e-02
## 737	6.86e-04	4.13e-04	-1.73e-03	-3.12e-04	4.68e-04	-1.60e-03	5.36e-04
## 738	7.41e-03	2.86e-03	5.55e-03	-2.52e-03	3.34e-03	-7.91e-04	-5.71e-03
## 739	-3.61e-04	2.66e-04	-9.75e-05	1.46e-04	9.47e-04	-1.09e-03	1.07e-03
## 740	3.71e-03	-6.23e-03	3.57e-03	-2.78e-03	4.09e-04	3.40e-03	-4.84e-03
## 741	4.94e-03	-8.64e-03	6.69e-03	6.62e-03	-1.60e-03	1.01e-03	-1.05e-03
## 742	-6.29e-03	-4.02e-03	3.84e-03	1.41e-02	-1.13e-02	-4.99e-03	-1.23e-03
## 743	4.32e-03	-4.23e-03	3.08e-03	-3.85e-03	-2.25e-03	3.76e-03	-2.63e-04
## 744	-2.76e-02	1.09e-02	-3.31e-02	-6.97e-03	3.27e-02	1.22e-03	-1.70e-02
## 745	-3.24e-02	-8.67e-03	8.70e-02	-1.25e-01	-2.99e-02	-1.78e-02	-4.72e-04
## 746	-4.03e-02	1.13e-02	-1.80e-04	-1.02e-02	3.53e-02	-1.69e-02	-2.70e-02
## 747	-3.79e-03	1.62e-02	-1.43e-02	-8.27e-04	1.57e-03	2.47e-02	-1.09e-02
## 748	-4.28e-02	2.52e-02	-7.04e-02	-1.38e-02	2.32e-02	1.09e-02	-2.01e-03
## 749	-1.95e-02	2.57e-02	2.00e-02	8.77e-03	-3.55e-02	1.54e-03	2.02e-02
## 750	-4.91e-02	4.51e-03	-2.16e-02	1.50e-02	2.97e-01	4.89e-02	-1.36e-01
## 751	-2.06e-03	-8.78e-04	-6.74e-04	-5.40e-04	3.28e-03	-9.17e-04	-3.35e-03
## 752	-1.10e-02	-1.94e-02	4.76e-03	8.71e-03	2.73e-02	-2.54e-02	-5.05e-02
## 753	-3.23e-02	1.16e-02	1.14e-01	2.87e-02	-1.08e-01	3.92e-02	2.40e-01
## 754	-4.91e-02	1.50e-02	-4.93e-03	-1.41e-02	-1.02e-01	4.69e-02	5.66e-02
## 755	8.76e-03	-1.43e-02	8.22e-03	1.80e-02	4.81e-03	-3.16e-04	-9.75e-03
## 756	-1.07e-02	-7.35e-03	1.58e-02	2.29e-02	6.70e-03	-6.03e-03	-8.06e-03
## 757	6.76e-03	1.25e-02	-8.34e-03	-4.54e-03	1.18e-02	-4.72e-03	-1.73e-02
## 758	-4.00e-03	-5.67e-03	3.05e-03	-4.91e-03	1.15e-02	-1.65e-02	-8.29e-03
## 759	-1.50e-02	4.19e-03	2.01e-02	2.33e-02	9.53e-04	-3.86e-03	8.76e-03
## 760	1.34e-02	-1.55e-03	2.50e-02	-1.01e-02	-1.77e-02	5.57e-03	1.46e-02
## 761	3.23e-03	4.38e-03	-1.35e-02	-1.87e-03	5.62e-03	5.21e-03	-1.88e-03
## 762	-4.27e-02	-2.03e-02	1.41e-02	-6.64e-02	-9.65e-03	-2.59e-02	8.90e-03
## 763	6.33e-02	-1.09e-02	2.95e-02	1.20e-02	-6.41e-03	-2.24e-03	1.16e-03
## 764	-3.52e-02	-2.26e-02	2.44e-02	-1.05e-02	-1.08e-02	4.87e-03	-6.15e-04
## 765	6.12e-03	-1.71e-02	3.79e-03	-3.12e-03	-6.01e-03	6.82e-03	-7.90e-04
## 766	7.60e-03	-1.54e-03	-3.92e-03	-4.33e-03	4.71e-03	2.21e-03	-5.39e-03
## 767	-2.24e-02	1.51e-02	-1.27e-02	1.20e-02	2.24e-02	2.99e-02	-2.62e-02
## 768	1.03e-02	-1.19e-03	4.40e-03	1.88e-02	-4.54e-03	-7.79e-03	7.46e-03
## 769	1.16e-02	7.54e-03	2.35e-02	2.04e-02	1.58e-02	-1.75e-02	-2.79e-02
## 770	1.26e-02	1.27e-02	-6.61e-03	-7.60e-03	-3.31e-03	1.41e-03	2.16e-03
## 771	-1.23e-02	9.90e-03	5.12e-03	2.50e-03	-3.06e-02	-9.92e-04	7.06e-03
## 772	5.44e-03	8.15e-03	1.37e-02	-2.23e-03	-7.56e-03	4.85e-04	-1.20e-02
## 773	5.77e-03	-6.98e-03	-1.05e-02	-4.87e-03	1.40e-03	-3.15e-03	6.00e-03
## 774	7.55e-03	1.16e-02	2.81e-03	1.26e-02	1.80e-04	-1.41e-03	-1.04e-02
## 775	3.64e-03	1.03e-03	-1.26e-02	-1.02e-02	7.61e-03	-8.33e-03	-5.89e-03
## 776	4.84e-03	3.64e-03	-6.13e-03	-2.20e-03	5.23e-03	2.45e-03	3.26e-05
## 777	6.62e-02	-1.34e-02	1.19e-02	1.34e-02	-9.99e-03	2.06e-03	-9.31e-03

## 778	-2.90e-02	-2.61e-02	-1.85e-03	-4.92e-02	1.42e-02	-2.22e-02	2.02e-02
## 779	-1.68e-02	-2.40e-02	-6.65e-03	-2.48e-03	-9.12e-03	-2.64e-02	2.00e-02
## 780	1.05e-01	-5.96e-02	7.72e-02	1.42e-01	6.58e-02	-1.76e-01	-3.17e-03
## 781	-2.32e-02	-6.51e-02	-4.10e-02	-7.33e-02	-2.47e-02	2.28e-02	-6.52e-02
## 782	1.04e-02	-4.92e-03	-1.06e-02	-6.93e-03	-2.96e-03	1.68e-04	5.64e-03
## 783	1.12e-02	1.42e-03	1.43e-02	1.63e-02	-1.51e-02	6.96e-03	1.09e-02
## 784	-2.37e-03	-3.00e-03	-5.47e-04	2.04e-03	2.12e-03	-1.28e-04	-5.76e-03
## 785	1.41e-03	-1.77e-03	-1.12e-03	2.50e-03	-3.59e-03	-1.74e-04	4.28e-03
## 786	6.35e-03	-1.24e-02	6.70e-03	-3.08e-03	9.75e-06	-1.92e-02	-3.02e-02
## 787	7.16e-03	-1.33e-02	5.01e-03	-7.20e-03	-7.68e-04	3.87e-03	-1.99e-04
## 788	-7.84e-04	7.42e-04	1.13e-03	3.24e-04	-9.57e-04	-1.94e-04	-1.11e-04
## 789	2.77e-03	3.28e-03	-3.38e-03	-9.34e-03	2.88e-03	-3.61e-03	3.63e-03
## 790	-4.31e-02	-1.39e-02	5.58e-02	3.04e-02	2.06e-01	-8.52e-02	-7.48e-02
## 791	-8.99e-04	1.10e-04	-3.92e-04	2.35e-04	-5.63e-04	-3.53e-04	1.65e-04
## 792	9.83e-02	1.15e-01	-8.55e-02	1.11e-02	-3.91e-02	3.33e-02	2.56e-02
## 793	-2.87e-02	8.61e-02	2.98e-02	1.93e-02	2.56e-02	-4.60e-03	-2.09e-02
## 794	1.11e-02	-3.34e-03	1.13e-03	1.70e-02	-5.42e-03	5.83e-03	-9.40e-03
## 795	1.38e-02	-1.04e-02	2.20e-02	2.41e-02	-1.06e-02	1.14e-02	1.56e-02
## 796	-2.69e-02	4.67e-03	4.85e-03	-6.88e-03	4.76e-03	7.96e-03	-6.67e-04
## 797	1.11e-01	-8.06e-03	4.60e-02	1.25e-01	-5.95e-02	3.62e-02	6.86e-02
## 798	-4.07e-02	7.44e-02	-3.05e-02	-5.75e-02	2.26e-02	-8.04e-03	6.54e-03
## 799	4.91e-02	3.32e-02	-4.87e-03	1.49e-02	-9.70e-03	-1.83e-03	1.83e-02
## 800	4.87e-03	-5.22e-03	3.74e-03	-2.02e-03	-1.44e-02	1.39e-02	-1.74e-02
## 801	-3.23e-02	-2.35e-03	-3.45e-02	1.87e-02	2.05e-02	-2.40e-02	1.83e-03
## 802	7.48e-02	-1.34e-02	-1.04e-01	1.70e-02	2.30e-03	-1.31e-02	1.54e-03
## 803	7.49e-03	-5.75e-03	1.04e-02	-2.26e-03	-3.00e-03	2.87e-03	4.36e-03
## 804	1.98e-03	-1.02e-03	-1.95e-03	-1.25e-03	7.90e-04	1.49e-03	-2.05e-06
## 805	-2.38e-03	7.47e-03	7.61e-03	-4.86e-03	-4.58e-03	3.20e-03	2.40e-04
## 806	-2.14e-03	-4.93e-03	-1.23e-03	2.29e-03	-1.19e-03	2.11e-03	-3.32e-03
## 807	8.20e-03	-1.33e-02	4.96e-03	-3.05e-03	-5.83e-03	-1.54e-02	-7.05e-03
## 808	-2.40e-02	4.07e-03	2.24e-02	-3.75e-03	1.04e-02	-1.07e-02	4.87e-03
## 809	-4.12e-04	1.03e-03	8.15e-04	3.11e-04	-2.77e-04	-1.33e-04	-1.95e-04
## 810	-3.41e-03	3.97e-03	-2.28e-03	-7.23e-03	-1.64e-03	3.38e-03	-4.13e-03
## 811	-2.18e-03	-4.65e-03	-6.86e-05	1.23e-03	-6.32e-03	4.39e-03	-1.29e-03
## 812	7.86e-03	-4.85e-03	3.69e-03	-1.31e-03	2.17e-03	4.97e-03	5.02e-04
## 813	1.11e-02	1.74e-02	-4.56e-03	-2.83e-03	-4.43e-03	-2.37e-02	1.78e-02
## 814	-4.35e-02	-6.02e-02	1.02e-02	1.52e-02	7.68e-02	-4.16e-02	1.64e-01
## 815	2.51e-03	9.12e-04	6.40e-03	-6.79e-03	-7.44e-03	4.85e-03	3.26e-03
## 816	-6.02e-02	3.91e-02	-6.08e-03	-6.24e-02	1.41e-02	5.34e-03	-2.35e-02
## 817	5.41e-03	1.56e-03	5.08e-03	1.20e-02	1.45e-04	-6.50e-03	7.84e-03
## 818	6.66e-04	-1.87e-03	-2.75e-03	-5.66e-04	1.34e-03	-2.22e-03	2.94e-03
## 819	7.91e-03	1.01e-02	3.55e-03	-4.27e-03	2.62e-03	2.01e-03	-5.76e-03
## 820	1.07e-02	-8.10e-03	-3.48e-03	4.96e-02	-3.34e-03	2.10e-03	1.16e-02
## 821	2.40e-03	2.95e-03	3.19e-03	-9.14e-04	-2.13e-03	1.28e-03	1.33e-03
## 822	-1.55e-03	1.24e-03	6.00e-04	6.00e-05	-1.14e-03	3.68e-03	-1.48e-03
## 823	1.22e-02	1.66e-02	1.41e-02	1.99e-02	-1.26e-03	-5.25e-04	5.34e-03
## 824	1.37e-02	3.59e-03	-9.46e-03	1.87e-02	-1.20e-02	-1.49e-02	7.83e-03
## 825	2.10e-02	-2.56e-02	-4.86e-02	-1.15e-02	1.79e-02	1.14e-02	-2.52e-04
## 826	-4.24e-02	1.33e-03	-7.17e-03	3.05e-02	-2.52e-02	-3.38e-02	2.20e-02
## 827	5.78e-04	5.14e-04	1.48e-04	-1.52e-03	-6.73e-04	-9.51e-04	-9.76e-04

## 828	-5.01e-02	1.00e-02	9.52e-03	-1.35e-02	-8.57e-03	1.80e-02	9.04e-03
## 829	-3.10e-02	-5.69e-02	2.13e-02	1.28e-02	-4.13e-03	-1.64e-02	6.78e-03
## 830	6.84e-02	1.96e-02	-4.68e-02	1.44e-02	1.84e-02	-1.15e-02	-2.11e-02
## 831	-3.97e-02	3.29e-02	1.10e-02	-1.32e-02	-2.32e-03	9.46e-03	1.77e-03
## 832	-4.54e-02	-5.72e-02	-4.08e-02	-6.46e-02	-1.44e-02	-3.18e-03	3.03e-02
## 833	6.98e-03	5.45e-03	3.28e-03	-3.56e-03	-3.71e-03	6.02e-03	1.66e-03
## 834	8.50e-03	6.92e-03	-1.94e-03	-3.27e-03	-2.03e-03	4.55e-03	-4.21e-03
## 835	3.22e-03	-6.95e-03	5.71e-03	6.01e-03	-2.12e-03	-3.11e-03	1.94e-03
## 836	1.14e-02	-7.64e-03	7.86e-03	4.11e-02	1.69e-03	-8.55e-03	4.27e-03
## 837	-4.08e-02	-3.82e-02	-2.64e-02	-1.82e-01	-5.11e-02	2.91e-02	-3.08e-02
## 838	6.87e-03	-5.79e-03	2.56e-03	1.15e-02	-8.04e-03	1.16e-02	1.68e-02
## 839	6.75e-02	-2.88e-02	-2.45e-02	-4.57e-02	-6.92e-03	-5.22e-02	1.00e-01
## 840	6.61e-03	8.36e-03	1.23e-02	-2.46e-02	-8.29e-05	4.75e-04	5.47e-03
## 841	2.41e-03	2.96e-03	-2.30e-03	-1.96e-03	-2.63e-03	8.95e-03	1.13e-03
## 842	1.59e-02	-3.96e-02	-1.46e-02	-6.34e-03	-3.26e-03	-2.61e-03	1.46e-03
## 843	8.33e-02	-6.75e-02	-3.38e-02	-5.19e-02	1.42e-02	-5.31e-03	1.87e-03
## 844	-2.42e-03	9.84e-03	3.35e-03	2.57e-03	-6.40e-04	3.50e-03	-5.67e-03
## 845	5.58e-03	-6.95e-03	-4.95e-05	-3.10e-03	-1.18e-02	8.40e-03	5.66e-03
## 846	-4.93e-02	2.68e-02	-6.70e-02	8.88e-02	3.29e-02	-4.94e-03	4.11e-03
## 847	1.89e-03	-2.76e-03	-1.25e-03	-5.15e-03	3.93e-03	-2.94e-03	-4.49e-03
## 848	1.08e-02	-2.61e-02	-7.95e-03	-2.22e-03	2.47e-03	-1.28e-02	4.29e-03
## 849	7.55e-03	6.55e-03	8.77e-03	-1.74e-02	2.28e-03	2.37e-03	-4.74e-03
## 850	-2.99e-02	-3.94e-02	-7.68e-02	-5.55e-02	-6.66e-03	1.13e-02	-4.22e-03
## 851	3.80e-03	6.03e-03	5.70e-03	-2.16e-03	-3.45e-03	3.21e-03	6.85e-05
## 852	-5.30e-03	-2.75e-03	2.82e-03	1.54e-03	-8.72e-03	-3.04e-03	6.29e-03
## 853	-1.82e-03	-2.63e-03	2.94e-03	1.54e-03	-7.85e-05	2.56e-03	-4.67e-03
## 854	1.55e-02	-7.31e-02	-2.65e-03	-5.91e-03	-9.05e-03	2.59e-03	-3.94e-04
## 855	-4.02e-02	-2.15e-02	2.18e-02	1.99e-02	-6.42e-03	1.86e-03	7.49e-03
## 856	-4.25e-03	-4.01e-03	5.80e-04	-6.98e-03	3.65e-05	-1.26e-03	-4.41e-03
## 857	1.52e-02	2.85e-02	-3.42e-03	3.48e-02	1.19e-02	-5.61e-03	-8.14e-03
## 858	8.13e-02	-6.37e-02	-6.24e-02	2.39e-02	4.95e-02	2.83e-02	-3.64e-02
## 859	-1.44e-02	1.63e-02	5.18e-04	4.53e-03	-4.51e-02	1.30e-02	8.96e-03
## 860	-5.62e-02	-2.15e-02	-1.07e-02	3.45e-02	2.30e-03	-1.30e-02	7.51e-03
## 861	6.86e-02	-5.43e-02	-2.31e-04	1.78e-02	-5.38e-03	-1.96e-02	3.64e-03
## 862	-4.28e-04	1.62e-03	2.73e-05	1.58e-04	8.93e-04	7.04e-04	1.81e-03
## 863	1.39e-02	1.60e-02	5.88e-03	-5.98e-03	4.51e-03	3.09e-03	1.55e-03
## 864	3.32e-03	3.96e-03	2.07e-03	-2.00e-03	6.57e-04	-1.88e-03	1.66e-03
## 865	-3.22e-02	2.30e-02	-3.31e-02	-1.48e-01	1.74e-02	-1.36e-02	-9.95e-04
## 866	7.79e-03	-1.19e-02	-1.29e-03	-4.29e-03	-2.66e-04	1.79e-03	4.12e-03
## 867	9.77e-03	1.36e-02	1.67e-02	-4.98e-03	3.19e-04	6.61e-03	-7.31e-04
## 868	3.62e-04	-8.12e-04	-1.30e-03	-1.42e-04	9.73e-04	7.23e-05	-1.30e-04
## 869	1.23e-02	1.67e-02	-3.08e-03	-5.65e-03	-1.22e-03	-8.02e-03	-6.54e-03
## 870	-5.64e-03	-8.63e-03	4.49e-03	2.14e-03	-9.25e-03	-3.56e-03	-4.55e-03
## 871	-3.16e-02	3.39e-03	-1.51e-02	-8.07e-03	2.17e-02	-1.62e-02	1.36e-02
## 872	-4.90e-02	-3.57e-02	-1.63e-02	-1.56e-01	2.55e-02	-2.76e-02	2.20e-03
## 873	1.39e-02	1.73e-02	1.24e-03	2.14e-02	-2.74e-02	-2.62e-02	2.37e-02
## 874	3.68e-03	2.46e-03	1.80e-03	-1.96e-03	3.76e-03	-5.23e-03	3.70e-03
## 875	2.16e-03	1.82e-03	-9.64e-04	4.04e-03	3.86e-03	6.58e-04	-7.28e-03
## 876	2.65e-03	-1.12e-02	-3.18e-03	-2.08e-03	3.67e-03	4.51e-03	-1.09e-02
## 877	1.10e-02	-7.74e-03	-4.42e-03	-6.45e-03	1.49e-03	1.04e-02	-1.23e-02

## 878	-5.87e-03	-7.52e-03	-3.16e-03	-7.72e-03	-5.68e-04	-1.18e-03	-2.35e-03
## 879	-5.12e-03	2.38e-03	-1.81e-03	1.72e-02	-8.20e-04	-4.68e-05	-6.87e-03
## 880	3.43e-03	1.58e-03	-4.21e-03	1.16e-03	8.25e-04	2.50e-04	-2.12e-03
## 881	1.69e-02	-3.22e-02	1.83e-02	-6.13e-03	6.27e-03	1.61e-03	-1.10e-02
## 882	-3.59e-02	6.96e-03	-6.90e-04	-5.96e-03	9.09e-03	-1.88e-02	2.69e-02
## 883	-4.74e-02	-4.71e-02	-2.07e-02	-5.32e-03	6.16e-02	-1.85e-02	-4.71e-02
## 884	1.38e-03	2.24e-03	-5.17e-03	-1.24e-03	9.40e-04	-2.65e-03	9.23e-04
## 885	7.24e-03	9.77e-03	1.47e-02	-2.15e-02	-5.11e-03	1.14e-02	8.42e-04
## 886	7.93e-03	3.70e-03	3.13e-03	-3.38e-03	-3.96e-03	-2.27e-03	-7.34e-04
## 887	-2.37e-02	-2.31e-02	-1.64e-02	-5.69e-03	3.05e-03	-1.27e-02	-7.16e-03
## 888	-6.53e-02	-1.53e-02	-5.77e-02	-1.84e-02	4.10e-02	1.37e-02	8.98e-03
## 889	-2.01e-02	1.41e-02	-1.34e-03	9.62e-03	1.24e-04	3.38e-02	-1.45e-03
## 890	-6.84e-02	1.65e-02	-3.09e-02	3.53e-02	3.03e-02	-9.65e-03	-4.46e-02
## 891	-4.68e-03	2.61e-03	1.87e-02	-1.22e-02	-9.50e-03	2.05e-03	-1.73e-03
## 892	-6.58e-05	-8.83e-05	-3.06e-05	8.00e-05	2.58e-05	-1.10e-04	2.28e-04
## 893	7.17e-02	9.62e-02	1.22e-02	6.39e-02	5.58e-03	-2.12e-03	3.50e-04
## 894	3.40e-03	3.20e-04	2.74e-03	-2.71e-03	-6.01e-04	1.15e-03	-1.59e-03
## 895	-1.93e-02	-1.14e-02	8.25e-02	8.05e-03	-6.37e-02	3.48e-02	-4.55e-02
## 896	-4.43e-02	2.43e-02	2.63e-02	3.20e-02	-2.08e-02	-2.94e-02	2.27e-02
## 897	1.03e-02	-1.77e-02	6.82e-03	-4.31e-03	6.06e-03	-2.44e-02	2.03e-02
## 898	3.61e-03	-2.45e-03	5.81e-03	-2.31e-03	-2.15e-03	6.29e-03	3.37e-03
## 899	-5.68e-03	-3.62e-03	4.07e-03	1.30e-03	-1.79e-02	8.61e-03	-1.29e-02
## 900	7.52e-04	8.88e-04	-2.70e-04	-2.44e-03	1.78e-03	7.56e-04	1.44e-04
## 901	5.35e-03	7.68e-03	-5.40e-03	9.88e-03	-8.03e-05	-1.61e-02	1.44e-02
## 902	7.05e-03	9.75e-03	6.15e-03	8.99e-03	-3.67e-03	2.91e-03	-8.39e-05
## 903	4.75e-03	1.01e-02	-1.46e-03	-3.90e-03	-3.38e-03	7.63e-04	3.49e-03
## 904	-2.78e-02	1.92e-02	1.22e-02	-9.26e-03	-2.92e-02	2.37e-02	-1.95e-03
## 905	-1.72e-03	-1.80e-03	2.09e-03	3.70e-03	-3.43e-03	-1.02e-03	-2.47e-04
## 906	-6.18e-03	-2.04e-03	-1.73e-02	-1.28e-02	-1.18e-02	9.59e-03	-6.80e-03
## 907	5.51e-03	-3.19e-03	6.22e-03	6.79e-03	-4.72e-03	4.54e-03	-6.42e-04
## 908	-4.04e-03	-7.74e-03	-4.39e-03	2.04e-03	1.43e-02	-4.58e-03	-1.19e-02
## 909	4.38e-04	-4.52e-05	-2.25e-04	5.49e-05	-1.50e-04	2.63e-04	-3.35e-04
## 910	-6.12e-02	3.49e-02	-5.64e-03	-1.70e-02	-1.27e-03	2.07e-02	-4.09e-03
## 911	3.70e-03	-1.14e-02	-5.40e-04	-1.52e-03	-1.55e-03	4.73e-03	-2.79e-04
## 912	3.57e-02	-9.94e-03	-5.98e-03	8.97e-03	1.85e-03	-1.07e-02	9.86e-03
## 913	-4.74e-02	-4.20e-02	-2.47e-02	3.37e-02	-2.47e-02	-1.95e-02	2.66e-03
## 914	1.01e-01	1.80e-02	-6.26e-02	1.70e-02	1.27e-01	-1.28e-02	-1.44e-01
## 915	-3.27e-02	-7.24e-03	-2.64e-02	-7.42e-03	-1.45e-01	2.72e-02	-5.79e-02
## 916	-2.22e-02	4.55e-02	2.91e-03	-9.41e-02	-1.76e-02	8.73e-03	1.89e-02
## 917	-4.71e-03	-1.48e-03	2.37e-03	1.21e-03	-3.36e-03	-6.95e-03	-1.12e-02
## 918	-5.93e-02	2.47e-02	4.05e-02	-6.55e-03	-3.74e-03	-3.43e-03	1.15e-02
## 919	-2.25e-02	-4.67e-02	9.45e-03	1.91e-02	-4.67e-02	2.05e-02	-1.47e-02
## 920	-2.60e-04	-2.91e-04	2.31e-04	-2.97e-04	-2.22e-04	2.80e-04	2.14e-04
## 921	5.07e-03	4.62e-03	-9.49e-03	-1.41e-02	9.17e-03	-1.31e-03	-3.78e-03
## 922	-5.36e-02	3.99e-02	-7.67e-03	4.13e-02	-1.26e-02	1.27e-03	1.68e-02
## 923	-3.14e-03	1.29e-04	-5.18e-03	-5.44e-03	5.68e-03	-9.82e-03	1.36e-02
## 924	5.05e-03	1.10e-02	-8.63e-03	-1.46e-02	6.38e-03	-1.09e-02	1.07e-02
## 925	-3.63e-02	8.15e-03	1.39e-02	-1.02e-02	-4.20e-04	5.67e-03	-1.08e-02
## 926	-3.37e-02	-6.22e-03	-5.09e-02	-9.24e-03	1.07e-02	1.17e-02	-2.59e-03
## 927	1.70e-03	5.80e-04	-1.69e-03	-5.96e-03	1.87e-03	9.40e-03	-1.08e-02

## 928	-3.49e-02	2.21e-02	-2.21e-02	-3.81e-03	1.99e-02	-4.30e-02	7.74e-03
## 929	-4.10e-02	-9.77e-02	-1.40e-01	2.21e-02	5.64e-02	6.87e-02	-1.07e-01
## 930	-4.57e-02	2.72e-02	1.34e-02	-8.63e-03	1.59e-02	1.05e-04	-1.32e-02
## 931	2.24e-02	1.29e-02	4.29e-02	2.53e-02	-2.70e-03	7.45e-02	-6.48e-02
## 932	-3.48e-02	-1.39e-02	-8.04e-03	-7.14e-03	9.89e-04	1.13e-02	1.08e-02
## 933	9.55e-02	-3.66e-02	6.24e-02	2.62e-02	-8.88e-02	3.20e-02	1.05e-01
## 934	1.37e-02	2.13e-02	-5.90e-03	2.48e-02	1.71e-05	-4.25e-04	-2.05e-03
## 935	1.42e-02	-1.86e-02	2.20e-03	2.62e-02	1.10e-03	-3.62e-03	-1.22e-02
## 936	-7.37e-03	-7.36e-04	-7.26e-04	2.44e-02	1.74e-03	3.04e-03	-1.84e-02
## 937	1.55e-02	-4.14e-02	-7.04e-03	-3.56e-03	3.30e-02	4.32e-03	1.83e-03
## 938	-4.87e-02	1.25e-02	1.77e-02	-7.08e-03	-4.20e-02	-1.42e-02	-1.24e-01
## 939	6.82e-03	1.05e-02	2.99e-02	-5.79e-03	-1.97e-03	3.78e-04	-6.12e-03
## 940	-5.88e-02	7.20e-02	5.98e-03	2.25e-02	1.58e-01	-1.70e-02	-4.94e-02
## 941	-3.85e-02	-3.61e-02	-4.31e-02	2.19e-02	3.79e-02	-1.84e-02	-3.21e-02
## 942	6.51e-03	1.25e-02	-3.98e-03	-7.39e-03	-3.97e-04	2.83e-02	-2.17e-02
## 943	-4.00e-03	-5.69e-03	-4.75e-03	7.85e-04	-6.48e-03	5.76e-03	-4.97e-03
## 944	4.87e-03	7.42e-03	3.30e-03	-1.47e-02	5.94e-03	-1.66e-03	-7.76e-03
## 945	1.94e-03	5.46e-03	-1.60e-03	-9.53e-04	3.24e-03	-3.80e-03	-5.76e-03
## 946	-2.62e-02	2.36e-02	-1.84e-02	-8.32e-03	2.54e-02	3.36e-03	2.79e-03
## 947	6.22e-02	-3.64e-02	-5.97e-02	6.75e-03	1.43e-02	4.00e-02	-1.43e-02
## 948	9.05e-02	5.50e-02	-1.31e-01	-5.78e-02	-4.73e-02	3.18e-02	8.44e-02
## 949	-4.56e-02	-5.75e-02	3.45e-02	-1.18e-02	-1.82e-02	5.65e-02	2.45e-02
## 950	7.23e-03	1.97e-02	1.12e-02	-4.87e-03	5.68e-03	-1.36e-02	1.15e-02
## 951	-1.72e-02	-1.15e-02	7.48e-03	1.31e-02	9.18e-03	-7.58e-03	-2.22e-02
## 952	1.54e-02	1.55e-02	-2.31e-02	-1.41e-02	-5.09e-02	9.59e-02	-6.43e-02
## 953	6.77e-02	-4.75e-02	-2.27e-02	7.69e-02	3.70e-03	-1.03e-02	1.99e-02
## 954	-3.11e-02	-6.39e-02	2.32e-02	1.28e-01	-2.22e-03	-1.65e-02	7.31e-03
## 955	-4.27e-03	1.57e-03	2.22e-03	2.82e-03	-4.09e-03	1.27e-03	4.76e-03
## 956	-3.07e-03	-1.02e-03	-9.67e-03	7.65e-04	4.84e-04	-2.69e-03	4.51e-03
## 957	8.11e-05	2.41e-05	-2.83e-04	-3.30e-05	3.21e-04	1.16e-04	-2.11e-04
## 958	8.30e-04	-1.23e-04	4.95e-04	-4.56e-04	-1.07e-03	-8.79e-05	5.21e-04
## 959	-7.33e-03	-1.04e-02	-9.39e-03	-1.24e-02	-1.33e-03	8.03e-03	-7.64e-03
## 960	2.58e-03	2.73e-03	4.15e-03	-1.20e-03	5.82e-03	-3.22e-03	-9.60e-03
## 961	4.44e-03	-4.57e-03	4.87e-03	-2.49e-03	-4.84e-03	8.31e-03	4.04e-03
## 962	-5.30e-02	3.52e-02	1.22e-02	-5.49e-03	-4.08e-02	-4.23e-02	2.51e-02
## 963	-4.19e-03	2.26e-03	-1.84e-03	-1.37e-03	-1.57e-02	4.84e-03	1.04e-02
## 964	8.12e-04	1.05e-04	4.66e-04	-4.80e-04	1.26e-03	-1.42e-03	1.05e-03
## 965	1.09e-02	1.75e-02	7.10e-03	-3.41e-02	1.26e-02	-1.43e-02	-4.58e-02
## 966	6.09e-03	9.28e-03	-7.91e-03	7.65e-03	1.90e-03	1.55e-03	-7.23e-04
## 967	1.02e-01	-2.64e-02	1.54e-01	-6.59e-02	-1.46e-01	7.11e-02	2.05e-02
## 968	3.79e-03	-1.35e-02	1.37e-03	-2.70e-03	-2.52e-03	2.88e-03	2.99e-03
## 969	5.51e-03	-3.90e-03	-1.35e-02	1.32e-02	3.66e-03	1.50e-02	-6.83e-03
## 970	-6.16e-03	-1.12e-02	-1.86e-02	1.55e-03	-1.98e-03	1.36e-02	-1.49e-02
## 971	7.13e-04	3.45e-04	-6.73e-04	-4.90e-04	-2.76e-04	7.33e-04	-1.70e-04
## 972	5.55e-03	-1.75e-03	-1.47e-02	7.60e-03	7.10e-03	2.75e-03	4.10e-03
## 973	2.24e-03	2.75e-04	-1.52e-03	-7.21e-03	-3.42e-04	2.34e-03	-9.02e-04
## 974	-7.65e-04	-8.47e-04	-7.38e-05	1.34e-04	1.32e-03	1.63e-03	-1.21e-03
## 975	2.00e-02	-3.47e-02	-5.80e-03	-3.85e-03	-2.77e-02	4.96e-03	1.54e-02
## 976	9.99e-02	3.74e-02	-5.11e-02	-6.10e-02	1.14e-01	-3.16e-02	-6.25e-02
## 977	-1.73e-02	1.07e-02	-1.81e-02	-3.44e-03	1.85e-02	-2.65e-02	-3.57e-02

## 978	7.74e-03	-1.49e-02	3.18e-03	-5.60e-03	-1.30e-02	-1.06e-02	7.57e-03
## 979	-3.23e-03	8.42e-03	1.91e-03	2.17e-03	-7.52e-03	7.79e-03	1.72e-02
## 980	6.76e-03	8.91e-03	1.22e-04	-4.32e-03	1.51e-02	-5.20e-03	-2.07e-02
## 981	-4.05e-02	-1.82e-02	-1.73e-02	9.91e-02	1.36e-02	-2.65e-02	6.94e-04
## 982	6.94e-02	3.98e-02	-4.99e-02	-5.36e-02	5.49e-03	-1.96e-02	3.42e-02
## 983	1.00e-03	1.28e-03	1.04e-03	-4.46e-04	-5.41e-04	4.56e-04	5.13e-04
## 984	-1.66e-03	-3.99e-03	1.24e-03	5.82e-03	-2.33e-03	4.11e-03	-1.26e-03
## 985	1.22e-02	2.43e-02	1.23e-02	-5.76e-03	-2.78e-03	5.48e-03	1.33e-02
## 986	8.18e-02	2.54e-03	-2.42e-03	-5.05e-02	1.69e-02	-1.07e-01	7.37e-02
## 987	-4.23e-02	2.78e-02	2.14e-02	-4.91e-02	5.56e-03	-3.28e-04	5.82e-03
## 988	7.87e-03	1.38e-02	1.14e-02	-3.39e-03	5.26e-03	3.27e-03	-6.83e-03
## 989	-2.97e-02	7.01e-03	-7.42e-04	2.11e-02	-2.85e-03	1.81e-02	-1.43e-02
## 990	-2.73e-02	2.01e-03	-3.72e-04	-8.62e-03	-8.16e-03	-1.43e-03	5.13e-03
## 991	4.24e-03	4.61e-03	4.16e-03	-1.14e-02	-3.07e-04	-2.62e-03	2.22e-03
## 992	-4.35e-02	1.34e-02	2.31e-02	3.06e-02	-1.68e-04	2.90e-03	-1.19e-03
## 993	-4.09e-03	9.83e-03	-3.03e-03	2.83e-03	-1.89e-03	-1.58e-03	-6.38e-03
## 994	6.43e-03	1.43e-02	5.06e-04	1.17e-02	1.56e-03	2.56e-03	-2.25e-03
## 995	-2.21e-02	1.94e-02	-1.49e-02	1.87e-02	1.28e-02	-4.32e-03	1.34e-02
## 996	-5.82e-02	9.47e-03	-2.75e-02	8.32e-02	-9.53e-02	1.91e-02	6.45e-02
## 997	-3.80e-02	2.55e-02	7.01e-03	-7.89e-03	3.28e-03	2.35e-02	-2.36e-02
## 998	6.81e-02	-2.30e-02	3.34e-02	2.12e-02	-1.29e-02	-7.57e-02	8.70e-02
## 999	1.37e-02	2.44e-02	-6.36e-03	-8.26e-03	-5.15e-03	-1.10e-02	6.37e-04
## 1000	-2.49e-03	-9.45e-04	-3.94e-03	1.31e-03	9.78e-03	-3.81e-03	-9.76e-03
## 1001	7.16e-03	6.79e-03	6.19e-04	2.47e-02	1.36e-03	-5.51e-03	8.18e-03
## 1002	1.01e-02	-1.14e-02	-2.04e-03	-9.30e-03	-2.57e-03	2.08e-03	3.57e-03
## 1003	1.43e-02	2.21e-02	7.51e-03	-3.50e-03	2.02e-02	-1.33e-03	-9.03e-03
## 1004	5.84e-03	1.32e-02	-1.17e-02	1.09e-02	1.86e-03	6.16e-04	2.44e-03
## 1005	4.94e-03	8.51e-03	-6.97e-03	-2.48e-03	5.57e-03	-1.06e-02	1.00e-02
## 1006	9.66e-03	1.36e-02	1.59e-02	3.03e-02	1.53e-02	-3.22e-02	3.48e-02
## 1007	-3.01e-02	5.29e-02	7.72e-02	2.28e-02	-3.41e-02	2.31e-03	-4.22e-03
## 1008	7.72e-02	-3.70e-02	-2.74e-02	7.69e-03	-6.61e-02	2.68e-02	7.68e-02
## 1009	2.70e-04	-3.81e-04	-6.38e-05	3.27e-04	-3.55e-04	3.70e-04	-7.65e-04
## 1010	1.33e-03	1.39e-03	8.00e-04	1.61e-04	-1.14e-03	1.18e-03	-9.37e-04
## 1011	-1.58e-02	-1.26e-02	5.01e-02	3.80e-02	-1.48e-02	4.13e-02	-2.04e-02
## 1012	-5.64e-02	-5.78e-03	-2.98e-02	-1.32e-02	1.83e-03	-2.85e-02	1.94e-02
## 1013	-2.76e-02	-3.84e-02	-3.26e-02	1.13e-02	1.39e-02	-1.36e-02	-2.01e-03
## 1014	3.38e-03	7.71e-04	-1.19e-03	-1.20e-03	4.75e-04	9.85e-04	1.19e-03
## 1015	9.16e-03	2.13e-02	3.24e-02	-3.01e-02	5.05e-03	-6.32e-03	-1.79e-04
## 1016	8.19e-03	2.10e-03	-1.08e-02	-2.95e-03	3.68e-03	-9.56e-04	1.13e-03
## 1017	-2.26e-02	-4.26e-02	-3.27e-02	8.15e-02	2.06e-02	-1.93e-02	1.25e-03
## 1018	7.18e-03	4.60e-03	-6.73e-03	-2.87e-02	-1.02e-02	2.73e-02	-1.54e-03
## 1019	8.89e-03	-3.57e-03	8.95e-03	1.91e-02	-6.10e-03	1.28e-02	1.41e-02
## 1020	1.23e-02	1.12e-02	-9.00e-03	2.19e-02	7.29e-03	-6.39e-04	7.68e-03
## 1021	2.90e-03	4.69e-03	-7.97e-03	4.57e-03	8.62e-04	-4.67e-03	1.81e-03
## 1022	-2.41e-02	-4.85e-02	3.29e-02	1.73e-02	-1.74e-02	-6.16e-03	2.19e-02
## 1023	2.33e-03	1.82e-03	9.89e-04	9.45e-03	-1.43e-03	-3.31e-03	1.58e-03
## 1024	4.47e-03	-1.59e-02	1.80e-02	-1.69e-02	-9.61e-03	5.92e-04	-1.05e-03
## 1025	-4.63e-03	1.02e-02	1.04e-03	1.45e-02	4.91e-03	3.80e-02	-1.02e-02
## 1026	-2.44e-02	1.23e-02	2.44e-03	-4.58e-03	-2.76e-03	-2.57e-03	8.67e-03
## 1027	-1.45e-03	-1.70e-03	-1.27e-03	-2.21e-03	-4.80e-04	3.38e-04	-1.09e-03

##	1028	6.86e-03	-5.11e-03	-1.15e-03	1.16e-02	-3.12e-03	-6.22e-03	6.84e-03
##	1029	-2.84e-02	1.60e-02	5.86e-03	1.49e-02	-6.05e-03	6.30e-03	5.97e-03
##	1030	-6.67e-03	-1.77e-02	4.62e-04	2.44e-02	-6.02e-03	1.05e-02	-1.63e-02
##	1031	2.21e-03	-3.82e-03	1.84e-03	-1.55e-03	2.35e-03	2.60e-03	-9.15e-03
##	1032	-5.01e-02	-1.01e-01	2.65e-01	1.48e-01	-1.42e-01	1.10e-01	5.47e-02
##	1033	7.59e-02	8.08e-02	4.79e-02	7.63e-02	-3.75e-03	-1.66e-02	-2.80e-03
##	1034	-3.79e-02	-7.13e-02	-5.58e-02	9.20e-03	-2.27e-02	5.72e-02	1.81e-02
##	1035	-4.11e-02	-1.63e-02	-4.24e-02	-9.90e-03	4.47e-02	-2.61e-02	2.74e-02
##	1036	5.06e-03	-6.12e-03	-6.06e-03	-2.87e-03	-1.36e-03	1.76e-03	1.30e-03
##	1037	7.06e-02	-2.95e-02	2.73e-02	-1.13e-01	-3.65e-02	8.93e-03	2.41e-02
##	1038	-2.80e-02	-1.10e-02	2.46e-02	-3.53e-02	2.26e-05	1.62e-02	-2.72e-03
##	1039	2.51e-03	4.00e-03	-2.19e-03	-1.51e-03	3.24e-03	4.04e-04	-2.30e-03
##	1040	-3.40e-02	-1.22e-02	-6.20e-02	3.04e-02	-4.75e-03	-1.35e-02	4.06e-02
##	1041	-3.66e-03	-7.96e-03	-1.23e-03	9.44e-04	-9.87e-03	6.32e-03	9.25e-05
##	1042	8.86e-03	-1.20e-02	1.09e-02	-2.41e-03	-8.82e-04	-5.59e-03	3.97e-03
##	1043	5.28e-03	4.59e-03	6.22e-03	-3.75e-03	-5.68e-03	3.55e-03	5.56e-03
##	1044	-2.63e-03	-3.14e-03	1.12e-02	-4.41e-03	-1.13e-02	3.25e-03	6.35e-03
##	1045	2.88e-03	2.15e-03	-8.01e-03	4.12e-03	3.81e-03	6.41e-04	-5.68e-04
##	1046	-5.98e-04	-2.40e-04	1.60e-04	1.66e-03	1.43e-04	-6.76e-04	2.29e-04
##	1047	1.40e-02	1.18e-02	2.03e-02	1.54e-02	-1.29e-02	8.32e-03	2.63e-03
##	1048	8.93e-03	2.95e-03	1.08e-02	-1.83e-03	-1.29e-03	-6.40e-04	8.31e-03
##	1049	6.13e-03	-9.67e-03	-7.99e-03	-3.16e-03	8.01e-03	-2.63e-03	7.21e-03
##	1050	4.74e-03	2.13e-04	5.23e-03	6.87e-03	1.18e-03	4.44e-03	-4.40e-03
##	1051	1.05e-02	1.38e-02	-2.12e-04	-7.48e-03	2.53e-03	-1.84e-02	-5.83e-03
##	1052	1.12e-02	1.55e-02	-3.13e-03	1.94e-02	4.19e-03	5.06e-03	1.17e-03
##	1053	2.81e-03	2.86e-03	2.13e-03	4.69e-03	-2.01e-03	2.12e-03	-2.50e-04
##	1054	-6.46e-03	2.94e-02	-1.79e-02	-1.34e-02	5.77e-03	1.25e-02	-1.06e-02
##	1055	-8.34e-03	-4.63e-03	3.38e-02	5.08e-03	-1.86e-02	9.08e-03	-1.39e-02
##	1056	9.19e-03	3.49e-03	1.78e-02	1.75e-02	4.31e-03	-2.10e-03	-6.27e-03
##	1057	-3.32e-02	-7.60e-03	1.69e-02	1.21e-01	4.98e-03	-2.38e-02	9.81e-03
##	1058	-2.71e-02	-4.57e-02	-9.84e-03	-1.09e-01	2.61e-02	3.35e-02	-2.65e-02
##	1059	6.79e-02	7.66e-02	3.28e-02	7.04e-02	-1.39e-02	-7.93e-03	7.87e-02
##	1060	3.86e-03	3.01e-03	5.64e-03	-1.83e-03	-2.96e-03	3.01e-03	-1.51e-05
##	1061	3.85e-02	-2.67e-02	1.17e-02	-2.72e-02	-7.74e-03	-3.19e-05	1.38e-03
##	1062	4.32e-03	4.94e-03	-1.16e-05	-2.18e-03	-3.12e-03	4.50e-03	3.18e-04
##	1063	-5.21e-02	-2.59e-02	-7.36e-03	3.58e-02	4.06e-02	-4.01e-03	-1.73e-02
##	1064	3.75e-03	1.91e-03	1.16e-03	-1.60e-03	-3.76e-03	-4.79e-03	6.41e-03
##	1065	2.57e-04	-7.08e-04	-1.56e-04	-7.27e-04	-1.32e-04	1.16e-04	2.50e-05
##	1066	-1.60e-02	-2.23e-03	3.01e-02	-4.58e-03	-5.40e-03	3.47e-03	-1.57e-04
##	1067	8.77e-03	2.19e-02	-6.01e-03	-6.68e-03	-4.45e-03	-9.85e-03	1.08e-02
##	1068	-2.96e-02	-9.20e-03	9.26e-03	2.04e-02	-1.75e-03	-1.06e-02	5.03e-03
##	1069	-2.94e-02	-4.56e-02	5.55e-02	-4.98e-02	-2.20e-02	-1.62e-03	-1.06e-03
##	1070	1.33e-02	6.78e-03	1.29e-02	5.07e-02	-8.30e-03	7.92e-03	-3.62e-03
##	1071	1.72e-02	5.80e-03	1.53e-02	-4.51e-03	-1.82e-03	8.83e-03	2.79e-03
##	1072	6.22e-03	-2.79e-02	7.68e-03	-2.69e-03	3.00e-04	2.23e-03	4.48e-04
##	1073	8.94e-03	6.52e-03	6.29e-04	-2.82e-03	-1.54e-03	9.68e-04	5.17e-03
##	1074	1.25e-02	9.40e-03	7.29e-03	2.16e-02	7.37e-03	-6.58e-03	1.48e-02
##	1075	-4.06e-02	-1.53e-02	-4.85e-02	-9.27e-03	2.37e-02	8.04e-03	-3.54e-03
##	1076	4.42e-03	-1.83e-02	3.83e-03	-1.08e-02	-5.18e-03	1.24e-03	3.13e-03
##	1077	-9.79e-03	1.87e-02	-9.89e-04	5.80e-03	-1.33e-02	4.12e-03	-2.35e-02

## 1078	-2.20e-02	-3.07e-02	5.82e-02	-1.33e-01	-1.42e-02	5.91e-02	-6.28e-02
## 1079	2.42e-03	2.21e-03	1.02e-03	-8.10e-03	3.14e-03	1.41e-02	-1.28e-02
## 1080	9.33e-03	-1.40e-02	1.74e-02	-5.46e-03	4.42e-03	1.76e-02	-1.20e-02
## 1081	-2.58e-03	-3.35e-03	6.17e-04	5.56e-03	5.00e-04	1.24e-02	-3.05e-04
## 1082	1.44e-02	-2.14e-02	2.02e-02	5.25e-02	-1.56e-02	-2.80e-02	5.33e-03
## 1083	1.18e-02	7.35e-03	-4.90e-03	-6.28e-03	-8.16e-04	-4.50e-03	-2.77e-03
## 1084	-4.84e-02	-1.64e-02	1.07e-01	-1.52e-01	1.41e-02	6.20e-02	-1.26e-02
## 1085	-2.87e-02	3.82e-03	1.42e-02	-2.49e-03	1.44e-02	-1.81e-02	-2.99e-02
## 1086	-4.32e-02	-4.48e-02	-4.23e-04	-1.33e-01	-2.88e-02	-7.50e-02	1.05e-01
## 1087	-6.11e-02	1.65e-02	-2.55e-02	-2.52e-02	-1.97e-01	1.54e-01	-7.88e-02
## 1088	-3.01e-02	-4.47e-02	-1.61e-02	-7.91e-03	4.92e-03	-2.26e-02	-8.52e-03
## 1089	8.28e-03	4.90e-03	1.45e-02	-5.17e-03	-5.33e-03	6.16e-03	9.03e-04
## 1090	1.19e-03	-1.01e-03	8.48e-04	-8.90e-04	3.11e-04	-1.95e-03	3.87e-04
## 1091	7.96e-03	1.08e-02	4.85e-03	-2.48e-03	1.37e-02	-1.59e-02	1.92e-02
## 1092	1.69e-02	1.39e-02	2.27e-02	-5.02e-03	-1.40e-02	-2.62e-03	1.41e-02
## 1093	-1.72e-03	2.46e-03	-8.97e-04	1.01e-03	8.48e-04	4.27e-04	-1.30e-03
## 1094	-3.38e-02	3.35e-03	-2.76e-02	5.98e-02	-1.24e-02	2.35e-02	-6.48e-02
## 1095	9.40e-03	1.68e-02	1.54e-02	-3.45e-02	-1.69e-02	5.08e-03	-3.64e-02
## 1096	-3.76e-02	2.25e-02	-1.76e-02	-5.75e-03	3.60e-03	-6.32e-02	4.72e-03
## 1097	-2.91e-02	-3.35e-02	1.56e-02	-7.16e-03	-4.50e-02	2.14e-02	-7.14e-03
## 1098	1.73e-02	7.46e-03	-6.02e-04	-6.92e-03	-2.22e-03	6.09e-04	4.80e-04
## 1099	-7.19e-03	-3.32e-03	1.08e-03	-1.82e-03	2.58e-03	1.13e-03	-2.86e-03
## 1100	1.77e-03	3.22e-03	7.70e-03	-9.12e-04	2.49e-03	-2.97e-03	-6.08e-03
## 1101	1.28e-02	-3.79e-02	4.78e-03	-1.02e-02	-6.98e-03	7.03e-03	-2.15e-02
## 1102	5.49e-03	6.52e-03	-6.00e-03	-3.13e-03	-2.03e-03	1.39e-02	-8.00e-04
## 1103	-4.03e-02	-4.14e-02	-2.31e-03	2.50e-02	-3.93e-04	2.77e-03	-4.68e-03
## 1104	-1.02e-03	-5.16e-04	1.26e-03	6.04e-04	-2.35e-03	7.08e-04	2.50e-03
## 1105	4.58e-03	-5.43e-03	-3.32e-03	6.89e-03	-1.71e-03	3.47e-03	-5.78e-04
## 1106	1.19e-02	1.48e-02	3.68e-03	5.48e-02	1.37e-02	-6.59e-04	-1.18e-02
## 1107	-2.93e-02	-7.72e-02	-2.53e-02	1.48e-02	-4.56e-02	5.17e-02	5.58e-02
## 1108	7.61e-03	1.18e-02	2.21e-03	-3.23e-03	-5.29e-03	1.10e-03	3.61e-03
## 1109	1.46e-02	-2.45e-02	2.03e-02	-7.36e-03	-1.49e-02	2.33e-02	-4.27e-03
## 1110	7.38e-03	1.04e-02	5.61e-03	-3.91e-03	2.00e-03	7.04e-03	7.75e-04
## 1111	7.58e-02	-3.44e-02	-5.00e-02	1.68e-02	1.91e-02	-1.34e-02	3.05e-03
## 1112	-7.45e-02	4.33e-02	1.61e-01	5.14e-02	5.51e-01	-2.41e-01	-2.89e-01
## 1113	-4.33e-02	-8.19e-02	-6.53e-02	2.56e-02	1.76e-02	-5.82e-02	-9.91e-03
## 1114	3.11e-04	1.93e-04	-1.77e-04	7.31e-04	-1.82e-04	-4.36e-04	2.71e-04
## 1115	1.09e-02	1.46e-02	8.66e-03	1.31e-02	-4.41e-03	2.65e-02	-3.05e-02
## 1116	1.73e-02	1.81e-02	3.10e-02	6.52e-02	-1.14e-02	4.28e-03	-4.96e-04
## 1117	-8.04e-03	1.69e-02	-1.38e-03	5.97e-03	5.68e-02	-3.90e-02	-2.97e-02
## 1118	2.91e-03	-2.14e-03	-1.23e-03	4.90e-03	2.14e-03	2.92e-04	-3.02e-03
## 1119	6.01e-03	-1.92e-02	3.18e-03	-4.48e-03	-5.23e-03	6.98e-03	-1.60e-03
## 1120	3.03e-03	6.40e-03	5.09e-03	-1.81e-03	4.60e-03	-3.73e-03	-6.97e-03
## 1121	1.00e-02	1.62e-02	6.61e-03	-3.25e-02	2.40e-03	2.82e-03	-2.54e-03
## 1122	8.90e-03	8.44e-03	-2.37e-02	-5.39e-03	7.70e-03	5.67e-03	-9.58e-04
## 1123	-5.58e-02	-2.32e-02	-1.63e-02	-1.06e-02	-1.13e-02	-5.71e-02	3.13e-02
## 1124	-5.79e-02	-6.25e-03	2.74e-04	-1.52e-02	-1.87e-04	1.75e-02	1.62e-02
## 1125	-5.41e-03	-9.58e-03	-7.13e-03	2.57e-03	-8.99e-03	5.39e-05	1.59e-02
## 1126	3.82e-03	-6.91e-03	5.80e-03	-1.15e-02	-1.83e-03	-9.60e-04	1.83e-03
## 1127	-1.68e-02	-3.06e-03	-1.34e-02	-3.05e-03	1.76e-02	4.24e-03	2.08e-03



## 1128	1.46e-03	-5.33e-04	-1.47e-03	-7.71e-04	6.19e-04	7.56e-04	-1.41e-03
## 1129	-5.46e-02	1.90e-02	3.88e-03	-1.33e-02	1.63e-03	4.01e-03	1.06e-02
## 1130	4.20e-04	-1.05e-03	-4.76e-04	-1.17e-04	8.64e-04	3.32e-04	4.96e-05
## 1131	3.14e-03	-2.26e-03	6.96e-04	6.15e-03	4.18e-03	-5.16e-03	-5.63e-03
## 1132	1.32e-02	4.28e-03	1.02e-02	1.91e-02	5.33e-03	3.18e-02	-3.34e-02
## 1133	5.20e-03	-2.81e-04	1.17e-02	-1.22e-03	-3.71e-03	-3.80e-03	2.53e-03
## 1134	-1.96e-04	-2.05e-04	-1.55e-04	1.05e-04	1.93e-04	8.46e-05	-1.55e-04
## 1135	7.02e-03	-6.52e-03	1.18e-02	9.34e-03	-3.65e-03	6.99e-03	-1.58e-04
## 1136	1.31e-03	-5.52e-04	6.67e-04	3.70e-03	-7.54e-03	7.97e-03	4.27e-03
## 1137	7.09e-02	2.02e-02	-2.42e-02	1.73e-02	1.30e-02	-4.13e-03	-3.39e-03
## 1138	-6.19e-02	2.00e-02	-1.99e-02	3.59e-02	3.19e-03	1.14e-02	3.41e-03
## 1139	-3.82e-02	-2.82e-03	-2.52e-02	-1.62e-02	-7.26e-02	7.61e-02	-3.52e-02
## 1140	3.41e-04	-2.50e-04	-1.63e-04	-2.44e-04	-9.58e-05	1.30e-04	1.57e-04
## 1141	-4.31e-03	4.51e-04	4.26e-03	2.74e-03	-6.96e-03	3.64e-03	5.95e-03
## 1142	1.38e-02	2.03e-02	-5.46e-03	2.66e-02	-1.63e-02	-1.48e-02	8.29e-03
## 1143	-6.09e-02	1.32e-02	5.15e-02	-9.70e-03	-3.33e-02	-4.15e-02	3.80e-02
## 1144	7.18e-03	5.41e-03	1.67e-02	-5.32e-03	-7.22e-03	-1.25e-02	-1.88e-03
## 1145	1.47e-02	9.50e-03	-8.96e-03	-3.93e-03	-4.55e-03	8.60e-03	1.26e-02
## 1146	-3.56e-02	1.89e-02	9.23e-03	-7.74e-03	-6.26e-04	1.27e-03	-2.24e-03
## 1147	4.70e-03	2.88e-03	1.12e-03	-1.22e-03	-1.42e-03	-5.94e-03	-9.96e-03
## 1148	8.92e-03	5.47e-03	9.52e-03	1.20e-02	-1.17e-02	-8.52e-03	1.02e-02
## 1149	4.52e-03	6.71e-03	4.78e-03	-3.61e-03	1.27e-02	-4.46e-03	-1.75e-02
## 1150	5.81e-03	1.04e-02	-1.88e-03	-2.86e-03	4.58e-03	-7.48e-03	8.76e-03
## 1151	-1.18e-03	-3.33e-03	1.93e-03	4.96e-04	-1.32e-06	7.78e-03	-5.45e-03
## 1152	2.26e-02	-5.03e-02	1.25e-02	3.78e-02	-2.66e-02	-1.33e-02	1.75e-02
## 1153	9.00e-03	-1.21e-02	-6.10e-03	-4.28e-03	6.50e-03	1.25e-03	-1.04e-02
## 1154	6.36e-02	-3.14e-02	8.25e-03	6.64e-02	-3.48e-03	-1.29e-02	7.44e-03
## 1155	-4.03e-03	-5.34e-03	4.57e-03	1.36e-03	-2.80e-03	-8.60e-04	-1.07e-03
## 1156	-1.69e-03	1.46e-04	-3.41e-04	5.10e-04	2.58e-05	3.10e-03	-3.89e-03
## 1157	3.82e-03	7.18e-03	3.09e-03	-2.57e-03	1.48e-02	-1.70e-02	-2.86e-02
## 1158	-4.02e-03	-9.57e-03	1.02e-02	1.55e-03	-5.46e-04	1.45e-02	-1.25e-02
## 1159	4.71e-03	-3.02e-03	1.45e-03	7.28e-03	-3.72e-04	-1.42e-03	3.27e-03
## 1160	1.51e-02	1.47e-02	1.80e-02	6.35e-02	-5.89e-03	3.98e-02	-5.99e-03
## 1161	-8.41e-03	1.27e-02	-1.56e-02	4.75e-03	-3.07e-03	-3.07e-04	-1.32e-03
## 1162	-2.16e-02	-1.54e-02	9.08e-03	-2.10e-02	-4.34e-04	-5.08e-03	9.14e-03
## 1163	-4.96e-02	3.90e-02	-7.49e-03	-4.49e-03	5.85e-02	2.13e-01	2.92e-02
## 1164	1.02e-02	2.10e-02	6.43e-03	3.81e-02	5.86e-03	1.36e-02	-3.05e-02
## 1165	-4.18e-02	-6.54e-05	-3.48e-02	2.88e-02	3.05e-02	9.97e-03	-2.24e-02
## 1166	-3.78e-02	2.84e-02	-2.01e-03	-7.53e-03	-2.38e-02	-3.28e-02	3.23e-02
## 1167	1.55e-03	-5.68e-03	-2.21e-03	-4.38e-04	3.85e-03	1.37e-04	-7.90e-04
## 1168	6.95e-02	-1.84e-02	-2.01e-02	-4.28e-02	-3.65e-02	2.43e-03	2.74e-02
## 1169	-7.07e-02	2.71e-02	-2.15e-02	-1.68e-02	-1.52e-02	1.73e-03	1.16e-02
## 1170	3.01e-03	-2.68e-03	-2.05e-03	-2.04e-03	-7.82e-04	9.76e-04	1.36e-03
## 1171	1.48e-02	9.54e-03	-1.07e-02	2.14e-02	-2.47e-03	1.95e-03	2.30e-04
## 1172	6.05e-02	-1.44e-02	1.29e-02	-8.39e-02	3.84e-03	-2.96e-03	-1.35e-02
## 1173	1.23e-02	2.24e-02	-7.49e-04	-5.55e-03	2.57e-03	1.17e-02	3.04e-03
## 1174	5.06e-03	8.27e-03	7.46e-03	-2.11e-03	1.76e-03	1.56e-03	3.90e-03
## 1175	-4.66e-03	4.59e-03	-5.67e-05	1.08e-03	-4.30e-03	6.01e-03	-7.00e-03
## 1176	3.28e-03	-7.49e-03	4.08e-03	-8.50e-04	-3.63e-03	-2.91e-03	1.18e-03
## 1177	5.17e-03	-1.01e-03	-1.43e-02	-3.14e-03	1.07e-02	1.42e-03	1.53e-03

## 1178	-4.70e-03	-8.75e-04	-6.26e-03	1.75e-03	-3.32e-03	9.06e-03	-1.20e-02
## 1179	1.03e-02	-1.84e-02	-3.28e-03	-5.42e-03	3.87e-03	3.55e-03	-1.16e-02
## 1180	-1.94e-03	-2.38e-03	-3.92e-04	9.57e-04	-2.31e-03	4.25e-04	4.30e-03
## 1181	1.14e-02	2.73e-02	-5.26e-02	-8.96e-03	1.56e-02	-5.09e-03	4.32e-04
## 1182	-5.07e-03	-3.00e-03	-4.99e-03	-8.30e-04	4.21e-03	-2.96e-03	4.38e-03
## 1183	-5.81e-04	-1.38e-04	-1.11e-03	2.31e-04	1.03e-04	-3.13e-04	-5.87e-05
## 1184	-5.05e-03	1.08e-02	4.97e-03	2.27e-03	-2.25e-03	1.03e-03	-4.28e-03
## 1185	-4.67e-03	1.83e-02	2.18e-02	2.87e-03	-1.48e-02	5.90e-03	4.52e-04
## 1186	-2.95e-03	1.20e-02	-1.34e-02	1.41e-03	-3.14e-03	2.24e-03	1.41e-03
## 1187	8.79e-02	1.38e-01	2.70e-02	9.69e-02	-2.58e-02	4.84e-02	4.87e-02
## 1188	-8.28e-03	-6.96e-04	2.24e-02	2.18e-02	-6.74e-03	1.81e-02	-1.40e-02
## 1189	-5.53e-02	1.54e-02	-4.28e-03	2.60e-02	-2.77e-02	8.85e-02	2.57e-02
## 1190	-5.10e-03	-9.60e-04	-5.66e-03	2.07e-03	3.79e-03	-5.61e-03	-3.74e-03
## 1191	-8.72e-04	-5.59e-04	-5.06e-05	-1.40e-03	4.43e-04	-1.39e-04	-8.18e-04
## 1192	5.04e-03	9.35e-03	-7.61e-04	-4.47e-03	-2.09e-02	1.72e-02	6.44e-03
## 1193	-3.37e-02	-5.55e-03	-4.50e-02	2.23e-02	2.52e-02	-1.33e-03	-1.39e-02
## 1194	1.89e-02	-4.96e-02	2.34e-02	-5.01e-03	1.29e-03	-9.62e-04	-1.47e-02
## 1195	-5.75e-03	-2.34e-03	2.14e-02	3.38e-03	-1.41e-02	-1.44e-03	6.40e-04
## 1196	3.09e-05	1.27e-05	-1.42e-05	-4.00e-06	-4.90e-06	-8.30e-05	5.13e-05
## 1197	-3.48e-02	-6.03e-03	-5.25e-02	-1.11e-02	2.23e-02	2.32e-02	3.51e-04
## 1198	1.41e-02	2.41e-02	-3.82e-03	-4.88e-03	2.07e-03	-1.12e-03	4.73e-03
## 1199	-1.73e-02	-2.78e-02	4.08e-03	-3.18e-03	-3.85e-03	-7.48e-03	4.05e-03
## 1200	8.98e-03	7.20e-03	-2.64e-03	1.36e-02	2.18e-03	2.40e-03	3.84e-03
## 1201	-2.07e-02	-1.06e-02	1.84e-03	-6.73e-03	6.97e-03	1.22e-03	-8.68e-03
## 1202	7.07e-02	-5.37e-02	1.33e-02	1.59e-02	8.02e-03	2.47e-02	-7.66e-03
## 1203	1.75e-03	-2.24e-03	-4.20e-04	2.14e-03	8.12e-05	1.08e-03	-3.07e-04
## 1204	-3.54e-03	-8.78e-04	-8.35e-03	2.40e-03	8.08e-04	-4.12e-04	-2.34e-04
## 1205	8.94e-02	-7.25e-02	1.15e-01	2.89e-02	-7.71e-02	2.26e-02	8.94e-02
## 1206	-4.44e-02	-5.03e-02	-5.71e-02	2.09e-02	3.98e-02	-3.34e-02	6.77e-03
## 1207	4.14e-04	-9.83e-04	-6.39e-04	-2.18e-04	8.75e-04	-5.11e-04	-7.90e-04
## 1208	1.12e-02	1.72e-02	2.41e-02	-1.02e-02	-8.33e-03	4.07e-03	-3.53e-04
## 1209	-2.14e-03	-2.23e-03	4.33e-03	1.01e-02	-2.76e-03	-3.44e-05	-2.07e-03
## 1210	-2.96e-03	5.08e-03	-2.48e-04	6.79e-03	-2.75e-03	-1.78e-03	-1.98e-04
## 1211	-7.40e-04	1.16e-03	2.31e-03	6.88e-04	-9.82e-04	1.53e-03	-2.06e-03
## 1212	1.22e-02	5.48e-03	2.44e-02	1.55e-02	-5.53e-03	1.18e-03	5.99e-03
## 1213	7.92e-03	1.48e-02	-7.14e-03	-5.47e-03	1.26e-02	-1.35e-02	-2.34e-02
## 1214	9.67e-02	1.05e-01	1.60e-02	2.32e-02	6.05e-03	-1.07e-02	-8.02e-03
## 1215	-3.71e-03	-2.43e-03	3.95e-03	-6.75e-04	1.78e-03	-7.49e-04	-2.82e-03
## 1216	-6.94e-02	1.75e-02	1.83e-02	-7.29e-02	1.28e-02	-1.87e-02	1.34e-02
## 1217	-9.64e-03	-2.71e-03	7.50e-03	-2.30e-03	5.96e-03	-4.79e-03	-1.02e-02
## 1218	9.19e-04	-3.30e-04	-5.10e-04	-5.62e-04	-3.19e-04	4.39e-04	8.56e-04
## 1219	3.17e-03	4.14e-03	8.61e-03	-9.15e-04	3.52e-03	-3.03e-03	-8.80e-03
## 1220	2.45e-03	-1.58e-03	-3.81e-03	-1.29e-03	-1.17e-03	5.75e-04	4.70e-04
## 1221	5.31e-03	-3.61e-04	-1.12e-02	9.31e-03	-1.29e-03	3.80e-05	-7.11e-03
## 1222	2.71e-04	-9.27e-04	-4.16e-04	5.65e-04	-6.60e-04	-9.73e-04	-1.09e-03
## 1223	-4.27e-02	-6.75e-02	-3.49e-03	1.59e-02	1.19e-02	-2.95e-02	-2.42e-03
## 1224	-4.62e-02	-5.59e-02	-1.11e-02	-1.38e-01	9.47e-02	-1.69e-01	1.71e-01
## 1225	1.06e-02	1.77e-03	-6.29e-04	-2.65e-02	-1.75e-03	4.25e-03	5.63e-03
## 1226	1.68e-02	2.07e-02	2.60e-02	-7.14e-03	-5.17e-02	2.78e-02	-1.40e-02
## 1227	1.46e-02	1.59e-02	-2.45e-02	2.24e-02	-1.73e-03	9.34e-03	4.15e-03

## 1228	2.61e-03	1.71e-03	-6.16e-04	-9.14e-03	-2.85e-03	3.19e-03	2.36e-03
## 1229	4.64e-03	-7.95e-03	9.48e-04	-2.25e-03	3.14e-03	1.36e-03	1.17e-03
## 1230	-4.82e-02	-7.31e-03	-6.45e-02	-1.23e-02	2.09e-02	1.20e-02	3.90e-04
## 1231	1.35e-02	1.25e-02	-1.00e-02	-3.91e-02	-1.86e-02	1.29e-02	2.14e-03
## 1232	2.81e-03	1.89e-03	-5.05e-03	-1.76e-03	2.43e-03	-1.73e-03	6.61e-03
## 1233	-3.28e-03	1.58e-04	7.52e-03	1.89e-03	-4.99e-03	3.28e-03	-4.92e-03
## 1234	5.83e-03	8.41e-03	-7.29e-03	6.74e-03	-1.11e-02	2.47e-02	7.97e-03
## 1235	2.86e-03	5.77e-03	9.15e-03	1.24e-02	-1.65e-03	1.16e-03	8.05e-04
## 1236	-8.60e-03	4.66e-03	8.44e-03	6.33e-03	-6.05e-03	-4.61e-03	7.06e-03
## 1237	7.78e-02	-2.99e-02	8.41e-02	2.37e-02	-5.97e-02	-5.15e-03	3.27e-02
## 1238	-2.45e-02	-6.09e-03	2.99e-02	1.48e-02	-3.03e-02	-1.12e-02	3.58e-03
## 1239	1.77e-02	1.43e-02	-1.87e-03	7.06e-02	1.10e-03	-4.69e-03	-1.38e-03
## 1240	1.61e-02	-2.49e-02	-4.49e-03	2.34e-02	8.30e-03	-6.29e-03	6.72e-03
## 1241	-7.86e-04	7.52e-05	3.39e-04	-1.35e-04	4.09e-04	-3.12e-04	-2.58e-04
## 1242	1.28e-02	9.88e-03	6.41e-03	4.40e-02	7.14e-03	-6.81e-03	1.02e-02
## 1243	9.75e-03	1.47e-03	2.85e-02	2.10e-02	-2.19e-02	1.44e-02	-3.81e-02
## 1244	3.91e-03	-1.06e-02	1.14e-02	-1.09e-02	-3.93e-03	9.55e-03	3.50e-03
## 1245	1.34e-02	-3.76e-03	-9.43e-03	-5.04e-03	2.20e-04	-1.57e-02	2.67e-02
## 1246	1.25e-02	8.99e-03	-6.43e-03	-8.00e-03	4.18e-03	6.67e-04	-1.32e-02
## 1247	-5.19e-02	-7.05e-02	2.35e-02	-6.76e-02	4.29e-03	-9.22e-03	-1.14e-04
## 1248	4.80e-03	-9.12e-03	8.26e-03	-3.57e-03	-6.67e-03	4.07e-03	4.75e-03
## 1249	1.02e-02	1.70e-02	-3.32e-03	1.44e-02	-6.98e-03	1.04e-02	2.13e-03
## 1250	-2.45e-02	-3.00e-02	-2.63e-02	1.20e-02	-1.62e-02	3.40e-03	2.35e-02
## 1251	-3.80e-02	1.79e-02	-1.97e-02	-4.10e-02	9.29e-03	1.76e-03	8.28e-03
## 1252	3.45e-03	6.91e-03	-1.01e-03	-1.05e-03	7.48e-03	-5.50e-03	3.79e-03
## 1253	-1.84e-02	2.21e-03	-2.63e-04	-5.59e-03	-1.15e-02	1.62e-02	-8.13e-04
## 1254	3.13e-04	5.10e-05	-3.61e-04	7.02e-04	-2.19e-04	-2.70e-04	6.37e-04
## 1255	-1.05e-03	-1.26e-03	-2.22e-03	2.75e-03	9.61e-04	-1.81e-03	-5.93e-04
## 1256	5.80e-02	4.65e-02	6.11e-03	-3.92e-02	-2.44e-02	-3.63e-03	3.43e-03
## 1257	1.32e-02	5.89e-03	-4.62e-03	1.91e-02	-8.23e-03	2.28e-02	1.31e-02
## 1258	-3.58e-02	-4.18e-02	1.01e-02	2.36e-02	-1.86e-02	-4.13e-02	4.98e-03
## 1259	1.10e-02	6.89e-03	9.95e-03	-4.00e-03	-6.22e-03	7.28e-03	-9.31e-04
## 1260	6.04e-04	-3.17e-04	-4.73e-04	-4.85e-04	-3.35e-04	2.44e-03	1.96e-04
## 1261	2.54e-03	3.70e-03	-1.05e-02	-2.21e-03	5.48e-03	-7.18e-03	7.52e-03
## 1262	-5.20e-02	-2.46e-03	-5.47e-02	-1.71e-02	2.57e-02	1.95e-02	-1.35e-02
## 1263	6.13e-02	3.68e-03	-2.04e-02	2.12e-02	1.05e-02	-2.16e-02	-5.33e-03
## 1264	5.41e-03	-1.47e-02	5.14e-03	7.61e-03	-3.02e-03	1.32e-03	4.28e-03
## 1265	1.62e-03	1.92e-03	-6.23e-03	-5.06e-04	4.65e-03	7.83e-04	5.69e-04
## 1266	-5.19e-03	-1.47e-04	5.46e-03	-1.26e-02	-4.06e-03	1.10e-02	-8.65e-03
## 1267	3.68e-03	-7.94e-03	5.80e-03	-2.13e-03	-2.81e-03	1.15e-03	3.05e-03
## 1268	5.91e-03	-1.40e-03	3.15e-03	6.54e-04	1.67e-03	1.06e-02	-7.66e-03
## 1269	-2.61e-02	-1.71e-02	-2.82e-02	1.57e-02	2.19e-02	-8.51e-04	7.36e-03
## 1270	2.06e-03	2.64e-03	1.09e-03	-1.44e-03	1.07e-03	-2.85e-03	3.29e-03
## 1271	1.25e-02	1.55e-02	1.09e-02	-3.55e-03	1.24e-02	-6.16e-05	-8.64e-03
## 1272	-2.80e-02	-2.82e-02	-1.20e-04	1.39e-02	1.13e-02	-2.22e-02	2.22e-02
## 1273	2.11e-03	3.72e-03	2.50e-03	-1.12e-03	-5.03e-04	-5.23e-04	2.18e-03
## 1274	7.74e-02	2.57e-02	-6.22e-03	1.92e-02	2.30e-02	-3.06e-02	4.03e-03
## 1275	8.89e-03	7.52e-03	-1.18e-02	-6.53e-03	-8.35e-05	-1.07e-03	-8.54e-03
## 1276	1.68e-03	3.82e-03	2.33e-03	-1.22e-03	3.19e-03	2.13e-05	-1.27e-03
## 1277	7.97e-03	4.86e-03	1.84e-02	-4.50e-03	-9.22e-03	8.00e-03	8.34e-03

##	1278	-5.99e-03	-2.44e-03	-2.26e-03	-1.24e-03	7.46e-03	2.02e-03	-2.26e-03
##	1279	-2.66e-02	7.91e-03	1.07e-03	-4.56e-03	9.48e-04	-5.89e-03	-6.70e-03
##	1280	7.54e-02	-3.96e-02	-5.00e-02	-5.37e-02	9.68e-03	5.79e-03	9.64e-03
##	1281	4.10e-03	2.40e-03	-1.17e-02	4.75e-03	-2.75e-03	1.66e-02	-5.06e-03
##	1282	7.96e-02	3.66e-02	-1.93e-02	1.90e-02	-2.64e-02	1.28e-02	7.52e-02
##	1283	1.20e-03	-2.14e-03	-3.21e-03	-6.50e-04	8.71e-04	-1.23e-03	-2.84e-03
##	1284	-1.36e-03	-2.68e-03	6.03e-04	4.25e-03	1.06e-03	-6.95e-04	-1.08e-03
##	1285	5.80e-03	-1.32e-02	1.48e-02	-2.46e-03	1.27e-03	-9.38e-04	-2.12e-03
##	1286	1.16e-02	7.29e-03	3.95e-02	-7.90e-03	8.71e-03	-1.60e-03	-8.54e-03
##	1287	6.20e-03	-5.02e-03	3.48e-03	1.08e-02	-3.44e-03	-3.09e-03	5.12e-03
##	1288	6.25e-03	-7.72e-03	4.57e-04	1.01e-02	2.10e-03	3.97e-03	-1.29e-03
##	1289	-6.22e-03	-6.57e-03	1.99e-02	4.97e-03	-1.77e-02	1.20e-02	-8.27e-03
##	1290	-1.32e-03	-2.98e-03	3.51e-03	1.48e-03	-1.74e-03	5.78e-03	-1.34e-03
##	1291	-4.65e-02	4.33e-02	1.91e-02	-7.51e-02	1.13e-02	-1.11e-01	-5.50e-02
##	1292	-4.33e-02	6.25e-03	-3.30e-02	-1.64e-01	5.26e-02	-7.16e-02	-7.43e-02
##	1293	7.05e-03	-6.97e-03	5.05e-03	-3.36e-03	3.10e-03	5.63e-03	-6.08e-03
##	1294	8.68e-03	1.48e-02	4.89e-03	1.86e-02	3.12e-04	-2.38e-03	2.20e-04
##	1295	1.07e-02	1.39e-02	1.99e-03	4.25e-02	6.09e-03	-3.54e-03	-9.44e-04
##	1296	-2.08e-02	5.41e-03	-9.98e-03	-2.22e-02	-1.61e-02	-2.35e-02	-3.23e-02
##	1297	7.02e-03	5.12e-03	1.23e-02	-2.10e-03	-3.37e-03	-2.45e-02	1.38e-02
##	1298	8.06e-02	-5.98e-02	3.07e-02	2.65e-02	1.81e-02	-6.64e-02	-1.88e-03
##	1299	-5.61e-02	1.48e-01	-5.52e-02	1.46e-01	-2.90e-02	3.45e-02	-1.70e-02
##	1300	-5.88e-03	4.32e-03	1.35e-03	3.34e-03	3.44e-04	-1.38e-03	-3.96e-03
##	1301	-2.13e-03	7.25e-03	-1.74e-03	1.52e-03	-1.76e-03	2.47e-03	1.12e-03
##	1302	-4.61e-03	1.84e-02	2.65e-02	-9.99e-03	-2.83e-02	-8.11e-03	3.36e-02
##	1303	1.10e-02	-9.92e-04	3.04e-03	-3.36e-02	-2.56e-03	-6.77e-03	1.29e-02
##	1304	-3.16e-02	1.41e-02	-2.90e-02	-8.83e-03	-5.09e-03	4.56e-03	-5.81e-02
##	1305	6.58e-03	9.92e-03	-1.13e-02	-5.33e-03	1.46e-02	9.76e-03	-2.40e-02
##	1306	-6.41e-03	-4.81e-04	-5.40e-03	-7.44e-03	7.87e-04	-1.43e-02	-3.31e-03
##	1307	1.12e-02	6.83e-03	1.23e-02	-5.38e-03	1.07e-02	5.40e-03	-8.82e-03
##	1308	5.81e-03	-2.79e-02	4.07e-03	-3.54e-03	-3.93e-03	3.90e-03	-1.07e-03
##	1309	-4.22e-02	-3.29e-02	-7.11e-02	2.54e-02	2.48e-02	7.89e-03	1.07e-02
##	1310	8.44e-03	7.16e-03	4.45e-03	-3.00e-03	-4.99e-03	-4.84e-04	1.32e-03
##	1311	-3.62e-02	1.12e-02	5.47e-05	-1.10e-02	3.83e-02	-2.62e-04	-8.91e-03
##	1312	1.37e-02	-1.20e-03	-4.82e-03	6.20e-02	-2.76e-03	7.11e-03	-3.52e-03
##	1313	-4.95e-02	3.89e-02	-3.85e-02	2.26e-02	3.85e-02	-3.99e-02	-3.71e-04
##	1314	5.89e-02	-1.90e-03	1.13e-03	1.31e-02	-2.80e-03	1.04e-02	2.30e-02
##	1315	-4.66e-03	2.08e-02	-8.56e-03	2.01e-02	-8.00e-03	4.17e-03	8.95e-03
##	1316	-2.86e-02	-3.68e-02	-3.22e-02	-6.51e-03	9.37e-03	1.01e-02	4.53e-04
##	1317	3.06e-03	-7.65e-03	1.02e-02	-2.42e-03	6.72e-03	-2.81e-03	-1.11e-02
##	1318	-4.54e-02	1.04e-02	-1.34e-02	3.50e-02	-1.05e-02	-2.04e-02	1.97e-02
##	1319	1.23e-03	1.28e-03	-1.82e-03	-3.17e-03	1.02e-03	-2.68e-04	7.31e-04
##	1320	9.98e-03	7.28e-03	9.07e-03	-2.22e-02	8.99e-04	6.75e-03	-1.87e-03
##	1321	1.74e-03	-4.83e-03	-1.15e-03	2.91e-03	-8.70e-04	8.90e-04	-1.09e-03
##	1322	1.26e-02	1.80e-02	1.08e-02	-6.95e-03	-7.03e-04	-7.23e-03	-1.13e-02
##	1323	-9.85e-03	-2.98e-03	-1.91e-02	-1.69e-02	-1.09e-02	1.37e-02	4.38e-03
##	1324	-9.99e-04	-1.57e-04	4.23e-05	5.24e-04	-1.55e-04	-3.93e-04	8.50e-04
##	1325	1.11e-02	-7.18e-03	-7.57e-03	-6.77e-03	-3.40e-03	3.04e-02	2.30e-03
##	1326	8.23e-03	6.71e-03	-3.51e-04	-4.54e-03	1.45e-03	3.42e-03	-1.20e-03
##	1327	6.34e-02	-3.45e-02	-2.79e-02	-4.64e-02	-3.52e-02	1.16e-02	1.78e-02

##	1328	-5.89e-03	-1.08e-02	2.55e-03	9.77e-04	4.13e-03	4.84e-02	-2.57e-02
##	1329	6.38e-03	-1.98e-02	-4.67e-03	-3.92e-03	1.23e-02	-7.05e-03	-9.65e-03
##	1330	1.07e-02	1.69e-02	9.66e-03	-3.97e-03	-5.42e-03	7.23e-03	6.74e-04
##	1331	-1.76e-03	-3.60e-03	-7.92e-03	9.64e-04	-8.99e-03	4.75e-03	-2.88e-04
##	1332	-7.99e-04	-8.26e-04	-2.24e-04	2.87e-04	7.70e-04	-5.84e-04	2.22e-03
##	1333	4.37e-02	7.77e-02	-2.36e-02	-3.47e-02	8.48e-03	-1.36e-02	1.19e-02
##	1334	-4.74e-02	1.38e-01	-6.10e-02	2.40e-02	-3.20e-02	5.34e-02	-1.02e-01
##	1335	2.25e-02	-2.82e-02	-1.50e-02	3.29e-02	1.06e-02	-1.95e-02	-4.88e-02
##	1336	-1.02e-03	-3.88e-04	-6.54e-04	4.66e-04	-6.15e-04	-3.29e-04	8.30e-04
##	1337	-2.00e-03	3.85e-03	5.55e-03	6.58e-03	-6.75e-04	-2.52e-03	-1.60e-03
##	1338	7.49e-03	-1.42e-02	8.59e-03	-5.31e-03	-8.02e-03	8.70e-03	-1.08e-03
##	1339	-3.82e-02	-3.58e-02	-3.84e-02	-6.10e-02	2.78e-02	-2.28e-02	8.90e-03
##	1340	6.88e-02	9.99e-02	-4.35e-03	1.24e-02	1.82e-02	-2.11e-02	3.39e-03
##	1341	-3.35e-02	1.42e-02	1.00e-02	-6.79e-03	3.41e-03	-2.65e-02	2.07e-02
##	1342	4.23e-03	7.10e-03	-1.38e-03	-1.19e-03	-6.48e-03	-1.15e-02	7.94e-03
##	1343	-2.16e-02	7.70e-03	1.24e-02	-4.48e-03	-7.61e-03	-2.31e-03	1.65e-03
##	1344	1.29e-02	4.88e-03	-3.62e-02	-5.58e-03	6.64e-03	2.39e-03	-2.07e-03
##	1345	-2.79e-02	-3.41e-02	-2.96e-02	-6.23e-03	6.62e-03	5.81e-03	9.89e-03
##	1346	-4.45e-02	3.26e-02	3.41e-02	-7.51e-03	-1.77e-03	2.49e-03	1.26e-02
##	1347	4.18e-03	5.53e-03	7.96e-03	7.21e-03	5.03e-03	-6.58e-03	1.26e-03
##	1348	1.14e-02	-3.10e-02	7.80e-03	1.77e-02	-2.07e-02	4.09e-02	1.70e-02
##	1349	6.89e-04	1.87e-03	1.13e-03	-9.37e-04	1.30e-03	4.33e-03	-3.97e-03
##	1350	-6.06e-02	2.14e-02	1.59e-02	3.89e-02	-3.90e-03	1.42e-02	-1.57e-02
##	1351	3.67e-03	2.73e-03	-6.68e-04	1.08e-02	4.08e-03	-9.49e-03	9.64e-03
##	1352	-8.88e-03	-1.10e-02	-7.15e-03	-7.47e-05	9.93e-03	3.48e-02	-1.66e-02
##	1353	3.77e-03	-4.51e-04	1.52e-03	-2.52e-03	1.79e-03	7.14e-03	-4.93e-03
##	1354	7.28e-02	9.18e-02	-1.14e-02	1.64e-02	4.38e-02	-1.58e-02	2.69e-02
##	1355	-4.47e-02	6.33e-04	-1.40e-01	3.66e-02	7.77e-02	2.89e-03	4.19e-03
##	1356	1.38e-02	-3.37e-03	-1.31e-02	4.84e-02	7.92e-03	5.15e-03	2.81e-03
##	1357	1.41e-03	-3.88e-03	-2.16e-03	-6.87e-04	1.18e-03	-2.67e-04	6.66e-04
##	1358	-7.08e-04	-7.33e-04	-4.28e-04	2.23e-03	3.87e-04	-2.50e-04	3.47e-04
##	1359	-2.22e-02	1.57e-02	3.04e-03	-6.90e-03	1.47e-03	1.06e-02	8.74e-06
##	1360	-2.88e-02	1.72e-02	3.43e-03	2.17e-02	-2.72e-03	-4.45e-04	9.66e-03
##	1361	5.76e-03	8.49e-03	2.44e-03	9.93e-03	4.01e-03	-6.27e-04	-6.58e-03
##	1362	2.25e-03	-2.69e-03	-3.57e-03	-1.34e-03	4.70e-03	-1.35e-03	-6.62e-03
##	1363	1.04e-02	1.44e-02	2.31e-03	-6.13e-03	8.34e-04	4.76e-03	7.36e-03
##	1364	7.20e-03	4.11e-03	3.25e-03	1.46e-02	-4.00e-03	1.15e-02	1.62e-02
##	1365	-3.48e-02	2.00e-02	8.94e-03	-4.99e-03	1.74e-02	-2.09e-02	2.51e-02
##	1366	-3.54e-02	2.47e-02	-2.91e-02	1.57e-02	3.20e-02	-2.43e-02	-7.51e-05
##	1367	7.82e-03	-1.14e-02	-9.54e-04	-7.21e-03	4.79e-03	4.62e-03	7.61e-04
##	1368	8.41e-03	1.70e-02	-6.96e-03	1.50e-02	-7.21e-03	3.92e-06	1.76e-03
##	1369	-3.99e-02	3.72e-03	-2.16e-02	-1.01e-02	1.42e-02	-1.01e-02	-7.76e-03
##	1370	7.49e-02	-5.85e-02	-3.33e-02	2.34e-02	-1.64e-02	-4.87e-02	3.50e-02
##	1371	-5.02e-03	5.96e-03	6.66e-03	1.99e-02	-6.37e-03	5.96e-03	-9.45e-03
##	1372	5.58e-03	-1.25e-03	1.72e-02	-2.91e-03	-1.66e-03	3.55e-03	9.49e-06
##	1373	6.56e-03	-4.57e-02	1.20e-02	-1.00e-02	-9.41e-03	5.60e-02	-3.17e-02
##	1374	-2.65e-02	-7.00e-03	-2.69e-02	-5.47e-03	-4.42e-02	-1.88e-02	4.49e-02
##	1375	-1.20e-02	6.71e-03	-1.54e-02	8.90e-03	1.49e-02	2.72e-03	2.10e-03
##	1376	6.70e-02	-1.25e-02	2.84e-02	1.80e-02	7.33e-03	-2.49e-02	-1.41e-02
##	1377	-1.55e-03	2.23e-03	9.33e-04	4.58e-03	9.82e-04	-1.59e-03	-8.74e-04

##	1378	-1.56e-03	-1.76e-04	2.68e-03	5.56e-04	-4.47e-03	4.53e-04	1.74e-03
##	1379	-2.93e-02	1.65e-02	-2.35e-02	-9.22e-03	1.66e-02	5.70e-03	-4.13e-03
##	1380	-2.86e-02	-4.72e-02	-2.81e-02	2.00e-02	1.93e-02	-2.44e-02	-1.76e-03
##	1381	1.07e-02	-3.48e-03	1.92e-02	4.56e-02	-3.59e-03	7.76e-04	1.18e-02
##	1382	7.79e-03	6.91e-03	-2.87e-03	1.43e-02	-1.90e-03	2.44e-03	2.92e-03
##	1383	-3.41e-02	1.24e-02	4.95e-03	-3.59e-02	-2.88e-03	1.13e-02	-7.08e-03
##	1384	5.67e-04	-2.37e-03	6.60e-04	-6.09e-04	-1.18e-03	-5.24e-04	9.02e-04
##	1385	7.85e-03	-2.16e-02	5.40e-03	1.63e-02	-2.79e-02	-1.77e-02	1.12e-02
##	1386	-1.84e-03	1.95e-03	-2.51e-03	-2.89e-03	1.77e-03	3.39e-03	-1.44e-03
##	1387	1.24e-02	1.24e-02	-2.01e-02	3.05e-02	3.03e-02	-2.39e-02	-4.29e-02
##	1388	8.30e-03	1.47e-02	7.65e-03	2.36e-02	-7.47e-03	-5.55e-03	1.12e-02
##	1389	-2.41e-03	2.43e-03	6.14e-04	1.59e-03	2.01e-03	-3.72e-03	-1.22e-04
##	1390	1.28e-02	-3.42e-02	3.40e-04	-3.10e-03	1.55e-02	-9.53e-03	-3.50e-02
##	1391	-5.56e-02	-6.55e-02	2.98e-02	-6.17e-02	1.98e-02	-6.18e-02	-1.75e-02
##	1392	1.88e-02	1.33e-02	-1.12e-01	2.88e-02	2.26e-02	9.70e-03	-2.24e-03
##	1393	-1.01e-02	7.30e-03	2.03e-03	-2.39e-03	1.76e-03	-3.79e-03	8.34e-03
##	1394	3.70e-04	1.96e-04	5.90e-05	-1.23e-04	3.49e-04	-5.29e-04	6.04e-04
##	1395	8.28e-03	-2.48e-02	2.91e-03	-3.73e-03	2.60e-04	5.92e-03	1.06e-04
##	1396	8.74e-02	-6.85e-02	-2.45e-03	2.27e-02	-5.04e-03	2.37e-02	-7.21e-02
##	1397	6.31e-02	-2.92e-02	-3.60e-02	-3.69e-02	-3.71e-02	6.41e-03	1.89e-02
##	1398	5.17e-03	1.13e-02	1.23e-02	1.01e-02	1.85e-03	-1.26e-03	-2.60e-03
##	1399	-1.77e-03	3.26e-03	-1.16e-03	7.09e-04	-7.67e-04	6.68e-04	-1.09e-03
##	1400	-1.17e-03	1.23e-03	-5.12e-03	6.99e-04	-1.05e-03	3.46e-03	-4.68e-03
##	1401	-3.72e-02	2.81e-02	9.03e-03	-1.16e-02	-2.63e-02	1.50e-02	6.45e-03
##	1402	-6.55e-03	-3.16e-03	-8.85e-03	-9.29e-04	5.73e-03	-8.42e-03	5.35e-03
##	1403	-3.63e-02	2.79e-02	1.81e-02	-1.07e-02	-8.28e-03	1.43e-02	-3.04e-03
##	1404	1.03e-02	1.40e-02	7.47e-03	-4.93e-03	-1.62e-02	2.17e-02	-4.13e-02
##	1405	5.55e-03	7.73e-03	-9.50e-03	-2.35e-03	-1.90e-02	-1.35e-03	1.07e-02
##	1406	-3.76e-03	1.12e-02	-7.64e-04	1.53e-02	-2.86e-03	-1.10e-03	1.54e-04
##	1407	-4.92e-02	-3.38e-02	5.17e-02	-1.12e-02	-9.81e-03	1.58e-02	5.94e-03
##	1408	1.34e-02	2.04e-02	1.08e-02	3.06e-02	-2.50e-04	-7.84e-03	8.63e-04
##	1409	6.28e-03	5.28e-03	-5.44e-03	-1.68e-02	-1.70e-03	7.52e-03	2.46e-04
##	1410	5.28e-03	8.36e-03	5.16e-03	-1.17e-02	2.60e-03	-9.44e-03	-1.50e-02
##	1411	4.19e-04	3.19e-04	-5.01e-04	-3.26e-04	9.90e-04	-2.40e-04	-4.70e-04
##	1412	6.97e-03	2.81e-03	-1.29e-02	-4.03e-03	1.76e-03	1.19e-02	-4.07e-03
##	1413	-8.64e-05	-7.51e-05	1.39e-04	-1.48e-04	7.62e-05	9.90e-05	-1.58e-04
##	1414	-2.64e-02	-2.01e-02	-1.82e-02	1.84e-02	8.20e-03	-1.87e-04	2.31e-03
##	1415	5.26e-03	-2.27e-02	-1.33e-02	-4.20e-03	1.59e-02	-1.81e-02	-2.74e-02
##	1416	5.10e-03	9.03e-03	7.81e-03	9.47e-03	-2.46e-03	-2.04e-04	3.16e-04
##	1417	-4.74e-03	-4.30e-05	5.63e-03	1.47e-03	1.83e-04	1.72e-02	-1.18e-03
##	1418	5.18e-03	-1.02e-02	4.81e-03	-4.64e-03	4.68e-04	1.94e-03	-2.55e-03
##	1419	1.18e-02	2.72e-02	8.38e-03	-9.44e-03	1.37e-02	2.98e-02	-4.21e-02
##	1420	-3.51e-02	-1.39e-02	1.69e-02	2.67e-02	-4.49e-04	-5.89e-03	2.87e-03
##	1421	-3.11e-03	7.52e-03	4.24e-03	1.44e-03	2.70e-03	6.86e-04	-4.56e-04
##	1422	-4.66e-03	6.89e-03	-1.75e-02	-2.64e-02	-6.35e-03	-1.57e-03	5.23e-04
##	1423	-2.98e-02	2.46e-02	4.24e-03	-1.01e-02	5.81e-03	5.37e-03	-1.17e-02
##	1424	7.36e-03	9.26e-03	-5.93e-03	-1.96e-02	4.08e-04	2.52e-03	-1.62e-03
##	1425	2.93e-03	-5.79e-03	2.64e-03	-2.13e-03	-1.59e-03	-2.04e-03	7.45e-03
##	1426	-4.51e-02	1.61e-02	-4.10e-03	-8.43e-03	-4.89e-03	-3.00e-02	-5.84e-02
##	1427	2.68e-02	2.35e-02	2.67e-03	-1.31e-02	-2.91e-02	1.60e-02	-3.45e-02

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## 1428  5.72e-03 -9.50e-03 -3.85e-03  9.22e-03 -9.96e-04  4.06e-03 -6.80e-04
## 1429  9.45e-03  6.24e-03  7.18e-03 -5.19e-03  6.34e-03  8.43e-04 -9.97e-03
## 1430  6.58e-03  9.85e-03 -2.50e-02 -4.58e-03  1.83e-02 -1.33e-02  7.82e-03
## 1431 -2.70e-04 -5.83e-04  6.90e-05  3.22e-05 -2.72e-04  1.85e-03 -1.41e-03
## 1432 -4.32e-03  8.47e-03 -1.78e-03  1.29e-03  1.73e-03  7.90e-03  6.51e-04
## 1433 -7.93e-03 -1.33e-02  3.00e-03 -1.28e-03 -1.54e-03 -5.63e-03 -6.44e-04
## 1434 -4.11e-02 -4.61e-02  4.70e-03  2.34e-02 -1.74e-03  6.04e-03  8.87e-03
## 1435  2.43e-03  1.37e-03 -2.73e-03  3.25e-03 -3.40e-03 -7.63e-03  4.29e-03
## 1436 -4.26e-02  2.53e-02  2.33e-02 -1.28e-02 -8.07e-03 -6.74e-03  7.61e-04
## 1437 -7.04e-02  4.45e-02 -5.24e-03 -1.13e-02  1.14e-02 -3.79e-03 -8.53e-03
## 1438 -1.72e-03 -1.34e-03  2.92e-04 -3.27e-03 -1.12e-03 -3.26e-03 -8.23e-04
## 1439 -4.18e-02  6.15e-02 -4.35e-03 -6.50e-02  1.97e-02 -3.15e-02  1.71e-02
## 1440  2.34e-03 -5.76e-03  4.94e-03 -8.98e-04 -5.98e-04 -4.88e-03 -1.80e-04
## 1441  4.34e-03  2.34e-03 -1.28e-02 -1.53e-03  2.72e-03  1.17e-03  2.06e-03
## 1442 -1.14e-02  3.01e-02 -3.25e-02 -2.50e-02  1.43e-03  4.69e-02 -3.49e-02
## 1443  9.91e-02 -2.60e-02 -7.26e-03  1.10e-01 -2.25e-02 -1.36e-02  3.51e-02
## 1444 -1.62e-03 -3.63e-03 -3.63e-03 -3.94e-03  5.00e-03 -8.71e-03 -3.84e-03
## 1445 -5.98e-02 -9.81e-02 -1.53e-02 -1.97e-01 -9.57e-02  8.68e-02  1.60e-01
## 1446  4.33e-03 -1.79e-02  4.95e-03 -3.19e-03 -1.89e-02  9.55e-03  2.01e-02
## 1447  2.17e-03 -4.71e-03  2.48e-03 -9.18e-04  1.11e-03 -2.03e-03  2.59e-03
## 1448 -2.07e-04  8.23e-04  2.22e-04 -4.31e-04 -4.83e-04  3.91e-04  7.81e-04
## 1449  2.03e-03  3.44e-03 -8.75e-04 -1.02e-03  1.80e-03 -1.03e-03  2.08e-03
## 1450  1.16e-02  3.68e-03  7.59e-03 -4.41e-03 -9.34e-03  3.66e-03  2.13e-04
## 1451 -4.11e-02 -6.36e-03  3.78e-02 -1.51e-02 -2.78e-02  6.91e-02  1.02e-02
## 1452 -3.38e-04 -9.87e-04 -4.34e-04  2.91e-04 -2.34e-04  2.37e-04 -7.53e-04
## 1453 -5.71e-02 -6.18e-02 -5.95e-02  2.69e-02  6.04e-02  1.69e-02 -5.05e-02
## 1454  7.86e-03  7.39e-03  7.69e-03  1.20e-02 -1.21e-02 -3.26e-03  7.05e-03
## 1455  8.72e-03  5.08e-04  1.26e-02 -2.91e-03 -8.81e-03 -3.07e-03  6.63e-03
## 1456  1.10e-02  6.82e-03 -1.55e-03 -6.92e-03  7.52e-03  1.44e-03 -9.80e-03
## 1457 -3.92e-02  7.49e-03  8.58e-03 -5.04e-02 -5.76e-02  3.11e-02  2.62e-02
## 1458 -7.96e-04 -4.12e-04  3.86e-03  5.67e-04 -2.41e-04 -3.48e-05 -5.44e-04
## 1459  8.69e-03  1.20e-02  7.28e-03 -3.44e-03 -4.06e-03 -4.68e-03  1.78e-03
## 1460 -3.85e-02  1.49e-02 -2.05e-02 -8.81e-03  7.58e-03  2.82e-03  1.15e-02
## 1461  2.51e-02  1.32e-02  8.80e-03  8.21e-02  7.41e-04 -1.84e-02  2.42e-02
## 1462  6.89e-02 -3.18e-02  3.94e-02  1.90e-02 -3.91e-02  8.74e-03  1.84e-02
## 1463  8.47e-03  1.36e-02  1.28e-03  1.41e-02 -1.92e-02  9.48e-04 -1.45e-02
## 1464  4.76e-03 -1.23e-02  4.05e-03 -3.51e-03 -3.15e-03  6.25e-03  1.06e-02
## 1465  1.39e-02 -1.43e-02 -5.70e-03 -5.52e-03 -1.64e-02  6.24e-04  6.61e-03
## 1466  3.02e-03 -1.86e-03 -9.27e-03 -1.74e-03  3.57e-04  2.91e-03  1.84e-03
## 1467  1.06e-03  8.52e-05  3.06e-03 -1.89e-04  1.49e-03 -1.66e-03  1.61e-03
## 1468 -3.80e-02 -3.20e-02  7.96e-03 -6.85e-03 -1.68e-02  1.38e-02  1.24e-02
## 1469  2.59e-03  1.27e-03 -1.44e-03  3.88e-03  1.43e-03 -6.77e-04  4.83e-03
## 1470  7.94e-05  1.31e-04  8.51e-05 -2.73e-04 -2.98e-05  3.27e-06 -1.24e-06
##      dfb.YWCM      dffit cov.r   cook.d     hat inf
## 1      3.64e-02  0.259585 0.964 3.06e-03 0.01497
## 2     -4.66e-03 -0.041425 1.029 7.80e-05 0.01529
## 3     -8.09e-03  0.193979 0.972 1.71e-03 0.01040
## 4      6.00e-02 -0.121278 1.017 6.69e-04 0.01569
## 5      7.27e-04 -0.065153 1.017 1.93e-04 0.00894
## 6     -4.81e-03 -0.048187 1.024 1.06e-04 0.01177

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## 7	8.30e-03	-0.092227	1.028	3.87e-04	0.01863	
## 8	2.86e-03	-0.029370	1.028	3.92e-05	0.01313	
## 9	-1.85e-02	-0.077837	1.027	2.76e-04	0.01677	
## 10	-5.72e-03	-0.033094	1.029	4.98e-05	0.01430	
## 11	3.39e-03	-0.034107	1.021	5.29e-05	0.00807	
## 12	-4.04e-02	-0.122651	1.009	6.84e-04	0.01234	
## 13	1.38e-03	-0.099486	1.019	4.50e-04	0.01401	
## 14	-8.64e-04	-0.025127	1.026	2.87e-05	0.01094	
## 15	9.30e-03	0.147284	0.995	9.85e-04	0.01053	
## 16	-3.52e-03	-0.033989	1.033	5.25e-05	0.01805	
## 17	-1.92e-02	-0.114372	1.015	5.95e-04	0.01392	
## 18	6.32e-03	-0.071836	1.033	2.35e-04	0.02103	
## 19	-7.46e-03	0.025050	1.035	2.85e-05	0.01969	
## 20	-1.67e-03	-0.094272	1.013	4.04e-04	0.01060	
## 21	3.98e-04	-0.016357	1.035	1.22e-05	0.01940	
## 22	-5.49e-03	0.238092	0.952	2.57e-03	0.01119	*
## 23	-2.96e-02	-0.057183	1.025	1.49e-04	0.01278	
## 24	8.54e-03	-0.073436	1.016	2.45e-04	0.00929	
## 25	5.09e-03	0.179690	0.954	1.46e-03	0.00698	*
## 26	-4.02e-03	0.089225	1.025	3.62e-04	0.01651	
## 27	2.52e-02	0.116183	1.030	6.14e-04	0.02257	
## 28	1.06e-02	-0.021303	1.022	2.06e-05	0.00744	
## 29	5.61e-03	0.009124	1.040	3.79e-06	0.02335	
## 30	5.10e-03	-0.072692	1.029	2.40e-04	0.01746	
## 31	6.90e-03	-0.036181	1.019	5.95e-05	0.00688	
## 32	-4.12e-03	-0.033164	1.026	5.00e-05	0.01215	
## 33	-3.17e-02	-0.079172	1.024	2.85e-04	0.01509	
## 34	-5.33e-02	0.480004	0.878	1.04e-02	0.02060	*
## 35	-3.32e-02	0.196923	0.969	1.76e-03	0.01023	
## 36	3.06e-03	0.034644	1.026	5.46e-05	0.01159	
## 37	9.83e-03	0.244891	0.969	2.72e-03	0.01465	
## 38	1.52e-04	0.004862	1.024	1.08e-06	0.00835	
## 39	1.38e-02	-0.136263	1.000	8.44e-04	0.01080	
## 40	2.47e-03	-0.036186	1.027	5.96e-05	0.01270	
## 41	1.26e-03	-0.011022	1.024	5.53e-06	0.00871	
## 42	5.14e-03	-0.041120	1.025	7.69e-05	0.01182	
## 43	2.37e-03	0.189476	0.999	1.63e-03	0.01634	
## 44	-3.87e-03	-0.037561	1.027	6.42e-05	0.01259	
## 45	1.52e-03	-0.041848	1.027	7.97e-05	0.01341	
## 46	-1.44e-01	0.462472	0.902	9.67e-03	0.02249	*
## 47	-9.75e-03	-0.072506	1.027	2.39e-04	0.01632	
## 48	8.67e-03	-0.056190	1.017	1.44e-04	0.00798	
## 49	-3.27e-02	-0.124732	1.020	7.07e-04	0.01756	
## 50	-2.21e-05	0.019974	1.026	1.81e-05	0.01138	
## 51	-2.62e-02	0.295201	0.993	3.95e-03	0.02624	
## 52	4.19e-03	0.168708	0.979	1.29e-03	0.00941	
## 53	-1.68e-03	-0.098987	1.019	4.45e-04	0.01405	
## 54	-1.63e-02	-0.128302	1.017	7.48e-04	0.01663	
## 55	2.43e-02	-0.135314	1.010	8.32e-04	0.01399	
## 56	-3.57e-02	-0.167907	1.026	1.28e-03	0.02622	



## 57	-1.18e-02	-0.066496	1.027	2.01e-04	0.01573	
## 58	-4.87e-03	-0.147340	1.003	9.86e-04	0.01308	
## 59	8.37e-03	0.039148	1.026	6.97e-05	0.01194	
## 60	-1.41e-03	-0.004482	1.029	9.14e-07	0.01308	
## 61	-1.91e-02	-0.095126	1.023	4.11e-04	0.01582	
## 62	-3.73e-02	-0.128437	1.030	7.50e-04	0.02423	
## 63	2.18e-02	-0.188936	1.033	1.62e-03	0.03283	
## 64	2.36e-02	-0.093955	1.043	4.01e-04	0.03043	
## 65	-2.98e-03	0.012863	1.031	7.53e-06	0.01490	
## 66	-1.17e-03	-0.025111	1.029	2.87e-05	0.01367	
## 67	1.09e-02	-0.112485	1.011	5.75e-04	0.01166	
## 68	2.73e-03	-0.024448	1.031	2.72e-05	0.01571	
## 69	6.11e-03	-0.088584	1.013	3.57e-04	0.00980	
## 70	-1.30e-02	0.192726	0.968	1.69e-03	0.00978	
## 71	-2.11e-03	-0.117101	1.024	6.23e-04	0.01880	
## 72	-5.52e-04	-0.010216	1.024	4.75e-06	0.00860	
## 73	1.23e-02	-0.058246	1.015	1.54e-04	0.00684	
## 74	-3.54e-03	-0.006726	1.023	2.06e-06	0.00792	
## 75	2.08e-03	-0.016274	1.026	1.20e-05	0.01032	
## 76	-1.30e-03	-0.007417	1.025	2.50e-06	0.00997	
## 77	9.51e-03	-0.059785	1.029	1.63e-04	0.01636	
## 78	2.75e-05	-0.088081	1.025	3.53e-04	0.01631	
## 79	2.81e-03	-0.066472	1.026	2.01e-04	0.01511	
## 80	4.51e-03	-0.072399	1.020	2.38e-04	0.01151	
## 81	5.93e-02	-0.101529	1.021	4.69e-04	0.01562	
## 82	-2.54e-03	-0.061625	1.018	1.73e-04	0.00919	
## 83	1.55e-04	-0.001900	1.031	1.64e-07	0.01531	
## 84	-6.47e-03	-0.062056	1.037	1.75e-04	0.02342	
## 85	2.27e-04	-0.037756	1.022	6.48e-05	0.00907	
## 86	4.31e-03	-0.038739	1.054	6.83e-05	0.03700	*
## 87	6.61e-03	-0.053599	1.020	1.31e-04	0.00908	
## 88	1.95e-03	0.032400	1.029	4.77e-05	0.01409	
## 89	-1.12e-03	-0.020105	1.033	1.84e-05	0.01724	
## 90	5.18e-02	0.300792	0.907	4.09e-03	0.01097	*
## 91	-1.76e-02	-0.106727	1.037	5.18e-04	0.02735	
## 92	7.85e-02	-0.167856	1.021	1.28e-03	0.02340	
## 93	-5.54e-03	-0.087030	1.016	3.44e-04	0.01121	
## 94	2.33e-02	-0.178165	1.006	1.44e-03	0.01771	
## 95	-5.42e-04	-0.034535	1.019	5.42e-05	0.00665	
## 96	-8.41e-04	-0.012513	1.033	7.12e-06	0.01683	
## 97	2.90e-03	-0.051759	1.025	1.22e-04	0.01271	
## 98	1.72e-04	0.006491	1.032	1.92e-06	0.01590	
## 99	-1.50e-02	0.037660	1.070	6.45e-05	0.05155	*
## 100	1.74e-03	-0.027205	1.039	3.37e-05	0.02294	
## 101	-7.68e-03	0.222824	0.957	2.25e-03	0.01063	
## 102	9.83e-03	-0.067363	1.015	2.06e-04	0.00830	
## 103	-1.31e-02	0.158862	0.996	1.15e-03	0.01216	
## 104	1.12e-04	-0.032695	1.028	4.86e-05	0.01352	
## 105	-2.61e-03	0.036460	1.037	6.05e-05	0.02166	
## 106	3.38e-03	0.104857	1.036	5.00e-04	0.02573	

## 107	-2.76e-02	-0.101832	1.029	4.72e-04	0.02077	
## 108	-1.19e-02	0.165310	0.980	1.24e-03	0.00927	
## 109	2.26e-03	-0.029690	1.023	4.01e-05	0.00872	
## 110	8.39e-03	-0.073576	1.011	2.46e-04	0.00708	
## 111	1.38e-02	-0.196371	1.029	1.75e-03	0.03116	
## 112	1.21e-02	0.188551	1.005	1.61e-03	0.01859	
## 113	-6.25e-03	-0.067091	1.046	2.05e-04	0.03170	*
## 114	8.39e-03	-0.046561	1.018	9.86e-05	0.00725	
## 115	5.47e-03	-0.040291	1.022	7.38e-05	0.00934	
## 116	3.20e-04	-0.011490	1.026	6.00e-06	0.01016	
## 117	-7.19e-03	-0.061921	1.023	1.74e-04	0.01230	
## 118	-5.69e-04	-0.001977	1.028	1.78e-07	0.01251	
## 119	3.09e-03	-0.027848	1.027	3.53e-05	0.01235	
## 120	-3.14e-03	-0.063650	1.039	1.84e-04	0.02495	
## 121	-3.30e-02	-0.142245	1.032	9.20e-04	0.02679	
## 122	4.28e-03	0.021693	1.031	2.14e-05	0.01606	
## 123	1.06e-03	0.271242	0.968	3.34e-03	0.01695	
## 124	-1.55e-03	-0.007710	1.046	2.70e-06	0.02959	*
## 125	4.69e-02	0.219545	0.985	2.19e-03	0.01576	
## 126	6.02e-03	-0.062902	1.015	1.80e-04	0.00753	
## 127	-3.97e-01	0.794618	0.955	2.85e-02	0.06791	*
## 128	-1.68e-02	0.164781	0.993	1.23e-03	0.01195	
## 129	2.20e-03	-0.025816	1.024	3.03e-05	0.00915	
## 130	-3.55e-03	-0.015245	1.028	1.06e-05	0.01245	
## 131	4.10e-03	-0.122211	1.026	6.79e-04	0.02082	
## 132	4.48e-03	-0.052229	1.024	1.24e-04	0.01186	
## 133	9.84e-03	0.177655	0.993	1.43e-03	0.01318	
## 134	-4.89e-03	-0.025735	1.026	3.01e-05	0.01137	
## 135	-5.09e-03	-0.031507	1.027	4.52e-05	0.01261	
## 136	5.19e-03	-0.028947	1.024	3.81e-05	0.00947	
## 137	2.85e-02	0.280777	0.961	3.57e-03	0.01642	
## 138	1.71e-03	0.028560	1.026	3.71e-05	0.01106	
## 139	-4.81e-03	-0.109065	1.017	5.41e-04	0.01423	
## 140	-9.68e-04	-0.070522	1.022	2.26e-04	0.01280	
## 141	1.00e-02	0.277390	0.954	3.49e-03	0.01496	
## 142	5.15e-03	-0.057484	1.027	1.50e-04	0.01496	
## 143	6.12e-03	-0.116316	1.019	6.15e-04	0.01592	
## 144	-2.95e-03	-0.083209	1.010	3.15e-04	0.00775	
## 145	-3.33e-03	-0.017790	1.034	1.44e-05	0.01831	
## 146	1.96e-03	-0.037413	1.024	6.37e-05	0.01058	
## 147	8.81e-03	-0.069257	1.018	2.18e-04	0.00963	
## 148	-1.48e-02	-0.066059	1.035	1.98e-04	0.02198	
## 149	-7.01e-03	-0.036904	1.024	6.19e-05	0.01011	
## 150	1.64e-02	-0.087197	1.009	3.46e-04	0.00808	
## 151	-1.40e-02	-0.047192	1.037	1.01e-04	0.02277	
## 152	-7.70e-04	0.017969	1.026	1.47e-05	0.01123	
## 153	2.63e-03	-0.104111	1.031	4.93e-04	0.02210	
## 154	1.07e-02	0.026780	1.044	3.26e-05	0.02752	
## 155	-6.07e-03	-0.051029	1.023	1.18e-04	0.01107	
## 156	2.05e-02	0.078828	1.028	2.83e-04	0.01760	

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## 157 2.37e-03 -0.033296 1.024 5.04e-05 0.01012
## 158 6.96e-03 -0.147146 1.011 9.84e-04 0.01599
## 159 1.40e-02 0.034880 1.027 5.53e-05 0.01254
## 160 5.29e-03 -0.039795 1.021 7.20e-05 0.00822
## 161 2.24e-05 -0.032166 1.026 4.71e-05 0.01152
## 162 1.52e-03 -0.032853 1.032 4.91e-05 0.01730
## 163 6.71e-03 -0.061931 1.024 1.74e-04 0.01313
## 164 -4.69e-03 -0.054385 1.037 1.35e-04 0.02271
## 165 6.78e-04 -0.106621 1.021 5.17e-04 0.01576
## 166 -1.99e-03 -0.019277 1.031 1.69e-05 0.01591
## 167 -2.51e-03 -0.011508 1.028 6.02e-06 0.01208
## 168 1.92e-03 -0.006713 1.027 2.05e-06 0.01157
## 169 -1.51e-02 -0.045444 1.029 9.39e-05 0.01525
## 170 -1.88e-03 -0.044992 1.020 9.21e-05 0.00797
## 171 2.88e-02 -0.115623 1.000 6.07e-04 0.00850
## 172 -1.33e-02 0.224275 0.998 2.28e-03 0.02015
## 173 4.34e-02 -0.130548 1.022 7.75e-04 0.01954
## 174 -7.32e-04 -0.004163 1.036 7.88e-07 0.01975
## 175 1.40e-03 -0.075676 1.026 2.60e-04 0.01589
## 176 -2.73e-03 -0.101937 1.024 4.72e-04 0.01706
## 177 -5.79e-04 -0.035800 1.024 5.83e-05 0.01014
## 178 -3.34e-02 0.225827 0.970 2.31e-03 0.01297
## 179 1.85e-02 -0.046624 1.045 9.89e-05 0.02987
## 180 4.45e-03 -0.043338 1.021 8.54e-05 0.00877
## 181 2.61e-03 -0.089036 1.020 3.60e-04 0.01338
## 182 4.33e-03 -0.076766 1.017 2.68e-04 0.01024
## 183 -1.50e-02 0.188079 0.990 1.61e-03 0.01361
## 184 -6.87e-04 -0.031441 1.027 4.50e-05 0.01236
## 185 5.99e-04 0.017846 1.034 1.45e-05 0.01863
## 186 -5.17e-04 -0.005035 1.022 1.15e-06 0.00620
## 187 -1.62e-04 0.038824 1.027 6.86e-05 0.01324
## 188 1.80e-02 0.094070 1.031 4.02e-04 0.02138
## 189 -3.80e-03 -0.013796 1.033 8.66e-06 0.01741
## 190 1.39e-03 -0.003060 1.033 4.26e-07 0.01681
## 191 -2.75e-02 0.050352 1.039 1.15e-04 0.02418
## 192 1.49e-02 -0.054295 1.022 1.34e-04 0.01063
## 193 8.41e-03 0.165687 0.978 1.25e-03 0.00899
## 194 -1.26e-02 0.099205 1.029 4.48e-04 0.02023
## 195 -8.23e-04 0.010453 1.040 4.97e-06 0.02350
## 196 -1.90e-02 -0.124205 1.014 7.01e-04 0.01475
## 197 2.07e-02 -0.113355 1.011 5.84e-04 0.01184
## 198 -1.82e-03 0.013801 1.029 8.66e-06 0.01325
## 199 -8.19e-04 0.007093 1.023 2.29e-06 0.00784
## 200 1.11e-03 0.005454 1.031 1.35e-06 0.01518
## 201 2.62e-02 -0.111566 1.015 5.66e-04 0.01329
## 202 3.03e-03 0.013915 1.037 8.81e-06 0.02132
## 203 3.22e-02 -0.115610 1.017 6.08e-04 0.01473
## 204 -2.11e-02 -0.066788 1.030 2.03e-04 0.01786
## 205 -2.10e-02 0.215470 0.983 2.11e-03 0.01478
## 206 1.27e-01 0.407781 0.916 7.52e-03 0.02002
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## 207	8.27e-03	-0.087937	1.018	3.52e-04	0.01238	
## 208	-3.40e-02	-0.092792	1.017	3.91e-04	0.01223	
## 209	-2.76e-05	0.002372	1.033	2.56e-07	0.01751	
## 210	1.05e-03	0.019059	1.026	1.65e-05	0.01095	
## 211	2.94e-02	0.351863	0.917	5.60e-03	0.01575	*
## 212	-2.07e-03	-0.018254	1.032	1.52e-05	0.01671	
## 213	-1.40e-02	-0.065785	1.032	1.97e-04	0.01955	
## 214	-2.48e-03	-0.027187	1.031	3.36e-05	0.01549	
## 215	2.48e-02	0.191110	0.974	1.66e-03	0.01047	
## 216	2.02e-03	-0.079351	1.021	2.86e-04	0.01292	
## 217	-4.92e-02	0.186206	0.996	1.57e-03	0.01494	
## 218	4.61e-02	0.209057	0.929	1.98e-03	0.00686	*
## 219	1.78e-03	-0.021994	1.037	2.20e-05	0.02115	
## 220	3.13e-03	0.014077	1.026	9.01e-06	0.01082	
## 221	-6.84e-05	0.000511	1.027	1.19e-08	0.01176	
## 222	9.16e-03	-0.054938	1.019	1.37e-04	0.00882	
## 223	-1.05e-02	-0.075482	1.027	2.59e-04	0.01622	
## 224	3.70e-03	0.008665	1.030	3.42e-06	0.01418	
## 225	-1.55e-03	-0.022850	1.032	2.37e-05	0.01641	
## 226	7.85e-04	-0.015605	1.033	1.11e-05	0.01690	
## 227	-7.21e-03	-0.040672	1.030	7.52e-05	0.01601	
## 228	1.96e-02	-0.036540	1.035	6.07e-05	0.02026	
## 229	-3.97e-03	-0.018048	1.030	1.48e-05	0.01416	
## 230	-3.06e-02	0.154590	0.987	1.09e-03	0.00956	
## 231	-2.76e-03	-0.056824	1.028	1.47e-04	0.01504	
## 232	2.25e-02	0.094257	1.028	4.04e-04	0.01910	
## 233	-4.55e-04	-0.024794	1.029	2.80e-05	0.01405	
## 234	3.23e-02	0.107138	1.030	5.22e-04	0.02156	
## 235	1.57e-02	0.225412	0.953	2.30e-03	0.01033	*
## 236	-3.97e-04	0.025504	1.033	2.96e-05	0.01757	
## 237	3.51e-02	0.338584	0.920	5.19e-03	0.01503	*
## 238	1.11e-02	-0.197986	1.046	1.78e-03	0.04268	*
## 239	2.55e-03	-0.024559	1.021	2.74e-05	0.00709	
## 240	-2.87e-04	0.181215	0.987	1.49e-03	0.01220	
## 241	-6.09e-05	0.003121	1.024	4.43e-07	0.00889	
## 242	1.80e-04	-0.005376	1.032	1.31e-06	0.01606	
## 243	8.86e-03	-0.062229	1.031	1.76e-04	0.01832	
## 244	-8.83e-04	-0.009873	1.030	4.43e-06	0.01430	
## 245	-6.14e-03	0.103489	1.048	4.87e-04	0.03577	*
## 246	-2.77e-03	-0.045159	1.031	9.28e-05	0.01662	
## 247	-1.66e-03	-0.028583	1.020	3.72e-05	0.00655	
## 248	-4.76e-03	-0.018282	1.025	1.52e-05	0.00955	
## 249	-1.94e-04	-0.066163	1.024	1.99e-04	0.01310	
## 250	7.51e-04	-0.027726	1.026	3.50e-05	0.01119	
## 251	-3.01e-02	0.292770	0.938	3.88e-03	0.01377	*
## 252	6.59e-03	-0.094039	1.029	4.02e-04	0.01973	
## 253	-3.79e-03	-0.032069	1.019	4.68e-05	0.00617	
## 254	2.61e-03	-0.106217	1.011	5.13e-04	0.01118	
## 255	-5.78e-06	0.006144	1.026	1.72e-06	0.01035	
## 256	4.15e-03	-0.040679	1.020	7.53e-05	0.00779	

## 257	-3.30e-02	-0.123689	1.018	6.95e-04	0.01626	
## 258	5.78e-06	0.044485	1.034	9.00e-05	0.01967	
## 259	4.14e-04	-0.006936	1.032	2.19e-06	0.01590	
## 260	1.47e-02	0.229558	0.983	2.39e-03	0.01615	
## 261	3.17e-04	-0.082484	1.027	3.09e-04	0.01687	
## 262	-9.82e-04	0.031823	1.031	4.61e-05	0.01584	
## 263	-2.92e-03	-0.090742	1.022	3.74e-04	0.01508	
## 264	-3.12e-02	-0.136881	1.025	8.52e-04	0.02176	
## 265	-2.35e-02	0.219327	0.970	2.18e-03	0.01235	
## 266	5.03e-03	-0.066868	1.018	2.03e-04	0.00950	
## 267	-3.06e-02	-0.079804	1.031	2.90e-04	0.02017	
## 268	-3.20e-04	-0.004382	1.034	8.73e-07	0.01789	
## 269	-4.09e-03	-0.028130	1.028	3.60e-05	0.01361	
## 270	5.90e-03	0.040652	1.033	7.52e-05	0.01835	
## 271	8.90e-03	-0.077046	1.050	2.70e-04	0.03567	*
## 272	8.41e-02	0.349781	0.981	5.55e-03	0.02836	
## 273	2.99e-04	0.002583	1.027	3.03e-07	0.01159	
## 274	-2.99e-03	0.011813	1.026	6.35e-06	0.01029	
## 275	1.64e-02	-0.072447	1.021	2.39e-04	0.01212	
## 276	1.09e-03	-0.052783	1.034	1.27e-04	0.02049	
## 277	1.06e-02	-0.037208	1.032	6.30e-05	0.01699	
## 278	-4.56e-02	-0.182115	1.023	1.51e-03	0.02624	
## 279	1.72e-03	-0.057697	1.031	1.51e-04	0.01759	
## 280	2.04e-03	0.016326	1.030	1.21e-05	0.01475	
## 281	-3.06e-03	-0.039969	1.027	7.27e-05	0.01323	
## 282	-9.43e-04	0.002050	1.044	1.91e-07	0.02762	
## 283	-1.59e-02	-0.057641	1.025	1.51e-04	0.01343	
## 284	-1.22e-02	-0.055491	1.031	1.40e-04	0.01783	
## 285	9.09e-03	-0.198845	0.984	1.79e-03	0.01325	
## 286	-1.04e-03	0.003951	1.034	7.10e-07	0.01761	
## 287	-2.64e-02	0.312954	0.986	4.44e-03	0.02598	
## 288	1.87e-04	0.006124	1.025	1.71e-06	0.00949	
## 289	-4.90e-03	0.203491	0.979	1.88e-03	0.01256	
## 290	3.93e-03	-0.026266	1.023	3.14e-05	0.00857	
## 291	-3.21e-03	-0.183447	1.012	1.53e-03	0.02090	
## 292	-2.99e-02	-0.090904	1.022	3.76e-04	0.01481	
## 293	3.72e-04	-0.066520	1.022	2.01e-04	0.01233	
## 294	-2.55e-02	0.206466	0.972	1.93e-03	0.01167	
## 295	5.65e-03	-0.123982	1.003	6.98e-04	0.01023	
## 296	6.63e-04	-0.049008	1.034	1.09e-04	0.01941	
## 297	-2.85e-02	0.200995	0.950	1.83e-03	0.00816	*
## 298	-2.41e-03	-0.010920	1.026	5.42e-06	0.01059	
## 299	4.12e-03	-0.038768	1.026	6.84e-05	0.01245	
## 300	-4.45e-04	-0.021629	1.031	2.13e-05	0.01544	
## 301	-2.47e-03	0.005027	1.041	1.15e-06	0.02490	
## 302	8.89e-03	-0.083498	1.011	3.17e-04	0.00824	
## 303	-1.56e-02	-0.061755	1.024	1.73e-04	0.01317	
## 304	-1.01e-03	-0.006978	1.030	2.22e-06	0.01445	
## 305	-1.95e-02	0.072913	1.023	2.42e-04	0.01365	
## 306	7.67e-04	0.003994	1.030	7.26e-07	0.01464	

## 307	-9.12e-04	-0.008528	1.023	3.31e-06	0.00797	
## 308	3.49e-02	-0.072692	1.026	2.40e-04	0.01520	
## 309	2.87e-03	-0.077994	1.038	2.77e-04	0.02493	
## 310	-5.55e-03	-0.066519	1.018	2.01e-04	0.00941	
## 311	2.22e-02	-0.097022	1.013	4.28e-04	0.01080	
## 312	4.91e-03	-0.081060	1.043	2.99e-04	0.02974	
## 313	-5.51e-04	-0.115395	1.019	6.05e-04	0.01614	
## 314	-1.01e-02	-0.038234	1.027	6.65e-05	0.01326	
## 315	-3.36e-03	-0.116660	1.022	6.19e-04	0.01807	
## 316	-8.24e-03	-0.050508	1.027	1.16e-04	0.01407	
## 317	-3.66e-02	-0.086199	1.025	3.38e-04	0.01592	
## 318	1.01e-01	0.305988	0.929	4.24e-03	0.01360	*
## 319	1.59e-02	-0.128674	0.994	7.52e-04	0.00848	
## 320	-7.40e-03	-0.129124	1.013	7.58e-04	0.01486	
## 321	-6.18e-03	-0.085393	1.016	3.32e-04	0.01062	
## 322	1.18e-02	0.043435	1.023	8.58e-05	0.01019	
## 323	-2.29e-03	-0.012965	1.027	7.65e-06	0.01183	
## 324	6.08e-03	0.196123	0.991	1.75e-03	0.01471	
## 325	8.12e-03	0.025734	1.027	3.01e-05	0.01231	
## 326	-1.14e-02	-0.050008	1.030	1.14e-04	0.01645	
## 327	4.08e-02	-0.081755	1.038	3.04e-04	0.02568	
## 328	-2.71e-02	0.234844	0.940	2.50e-03	0.00953	*
## 329	5.00e-02	-0.117326	1.014	6.26e-04	0.01382	
## 330	-3.12e-03	0.051233	1.029	1.19e-04	0.01553	
## 331	2.21e-02	-0.046663	1.032	9.90e-05	0.01825	
## 332	-4.33e-03	-0.079450	1.024	2.87e-04	0.01491	
## 333	2.99e-04	-0.071406	1.029	2.32e-04	0.01741	
## 334	4.27e-03	-0.036122	1.023	5.93e-05	0.00972	
## 335	3.79e-03	0.027462	1.027	3.43e-05	0.01251	
## 336	2.85e-04	-0.124858	1.016	7.09e-04	0.01532	
## 337	4.20e-02	0.205544	0.995	1.92e-03	0.01678	
## 338	4.98e-04	-0.081877	1.012	3.05e-04	0.00854	
## 339	3.02e-03	-0.006655	1.029	2.01e-06	0.01361	
## 340	-2.47e-03	-0.010268	1.022	4.80e-06	0.00660	
## 341	3.14e-03	0.023611	1.023	2.54e-05	0.00845	
## 342	-1.21e-02	-0.046875	1.029	9.99e-05	0.01566	
## 343	-2.57e-02	-0.087162	1.023	3.45e-04	0.01526	
## 344	-2.38e-02	-0.093498	1.022	3.97e-04	0.01485	
## 345	-9.04e-04	-0.001779	1.031	1.44e-07	0.01557	
## 346	2.40e-03	-0.041773	1.027	7.94e-05	0.01297	
## 347	1.58e-02	-0.114696	1.004	5.98e-04	0.00947	
## 348	7.56e-03	-0.095383	1.026	4.14e-04	0.01819	
## 349	3.71e-03	-0.074512	1.026	2.52e-04	0.01578	
## 350	-1.61e-03	0.013879	1.029	8.76e-06	0.01316	
## 351	1.77e-02	-0.078751	1.017	2.82e-04	0.01050	
## 352	-8.11e-03	-0.018415	1.025	1.54e-05	0.01026	
## 353	3.11e-03	-0.083009	1.030	3.13e-04	0.01948	
## 354	-1.24e-02	-0.065726	1.024	1.96e-04	0.01354	
## 355	-1.77e-03	-0.088454	1.028	3.56e-04	0.01861	
## 356	-1.59e-03	-0.008139	1.023	3.01e-06	0.00784	

## 357	5.56e-03	-0.072322	1.025	2.38e-04	0.01457	
## 358	-3.11e-03	0.119583	1.016	6.50e-04	0.01494	
## 359	3.82e-04	-0.003853	1.029	6.75e-07	0.01304	
## 360	-8.74e-03	-0.019319	1.032	1.70e-05	0.01643	
## 361	4.78e-04	0.028716	1.025	3.75e-05	0.01072	
## 362	-5.18e-03	-0.021758	1.026	2.15e-05	0.01108	
## 363	6.87e-03	-0.101027	1.026	4.64e-04	0.01843	
## 364	-1.82e-02	0.182068	0.974	1.50e-03	0.00968	
## 365	2.14e-03	-0.028629	1.027	3.73e-05	0.01213	
## 366	-1.94e-03	0.024454	1.032	2.72e-05	0.01669	
## 367	4.38e-02	0.279201	0.970	3.54e-03	0.01816	
## 368	-5.55e-04	-0.007405	1.027	2.49e-06	0.01106	
## 369	-7.60e-02	0.187928	0.968	1.60e-03	0.00937	
## 370	-4.16e-03	-0.143215	0.983	9.31e-04	0.00770	
## 371	-4.02e-02	0.234052	0.951	2.48e-03	0.01074	*
## 372	1.88e-03	-0.047634	1.021	1.03e-04	0.00918	
## 373	1.18e-02	-0.068227	1.013	2.12e-04	0.00732	
## 374	-3.82e-04	-0.002603	1.027	3.08e-07	0.01115	
## 375	-9.80e-03	-0.030822	1.023	4.32e-05	0.00884	
## 376	1.55e-02	-0.063287	1.030	1.82e-04	0.01772	
## 377	9.26e-03	0.039422	1.025	7.07e-05	0.01169	
## 378	-1.15e-04	-0.007946	1.023	2.87e-06	0.00777	
## 379	2.34e-02	0.302129	0.966	4.14e-03	0.01945	
## 380	3.01e-03	-0.049568	1.032	1.12e-04	0.01788	
## 381	-2.10e-03	-0.061326	1.025	1.71e-04	0.01366	
## 382	6.26e-03	-0.038430	1.019	6.72e-05	0.00700	
## 383	-5.00e-03	0.234891	0.961	2.50e-03	0.01228	
## 384	-6.75e-04	-0.082147	1.013	3.07e-04	0.00901	
## 385	4.80e-02	-0.084551	1.031	3.25e-04	0.02039	
## 386	-2.03e-02	0.190167	0.988	1.64e-03	0.01333	
## 387	-2.02e-02	-0.037324	1.049	6.34e-05	0.03229	*
## 388	-4.13e-04	0.007382	1.023	2.48e-06	0.00747	
## 389	5.26e-03	-0.043829	1.024	8.74e-05	0.01116	
## 390	5.18e-03	-0.155182	1.004	1.09e-03	0.01433	
## 391	4.58e-03	-0.021312	1.033	2.07e-05	0.01710	
## 392	5.44e-03	-0.045607	1.032	9.46e-05	0.01774	
## 393	4.18e-04	-0.027894	1.032	3.54e-05	0.01645	
## 394	-2.27e-04	0.013990	1.026	8.90e-06	0.01073	
## 395	-1.55e-02	-0.048655	1.032	1.08e-04	0.01804	
## 396	7.82e-04	-0.035647	1.027	5.78e-05	0.01266	
## 397	3.80e-03	-0.052946	1.021	1.27e-04	0.00989	
## 398	4.10e-03	-0.141619	1.003	9.11e-04	0.01223	
## 399	1.34e-02	-0.111653	1.027	5.67e-04	0.02009	
## 400	4.51e-03	-0.064451	1.020	1.89e-04	0.01042	
## 401	1.85e-02	-0.076264	1.036	2.65e-04	0.02353	
## 402	2.24e-04	0.002005	1.044	1.83e-07	0.02745	
## 403	-4.33e-03	-0.056693	1.015	1.46e-04	0.00680	
## 404	1.54e-03	0.018188	1.028	1.50e-05	0.01251	
## 405	-1.61e-02	-0.044678	1.031	9.08e-05	0.01666	
## 406	-1.39e-03	0.228428	0.944	2.36e-03	0.00952	*

## 407	-3.42e-03	-0.050753	1.033	1.17e-04	0.01877	
## 408	-1.37e-04	-0.034620	1.025	5.45e-05	0.01097	
## 409	9.16e-03	0.071537	1.035	2.33e-04	0.02247	
## 410	1.33e-02	-0.089028	1.029	3.60e-04	0.01935	
## 411	1.00e-02	-0.072099	1.021	2.36e-04	0.01176	
## 412	1.21e-02	-0.071506	1.042	2.33e-04	0.02800	
## 413	6.69e-03	0.031341	1.027	4.47e-05	0.01241	
## 414	-1.08e-03	-0.029143	1.035	3.86e-05	0.01960	
## 415	1.49e-02	0.172869	0.988	1.36e-03	0.01147	
## 416	-4.55e-02	0.284331	0.961	3.67e-03	0.01678	
## 417	6.82e-03	-0.103304	1.024	4.85e-04	0.01720	
## 418	1.08e-02	0.122565	1.023	6.83e-04	0.01925	
## 419	2.88e-03	-0.077537	1.028	2.73e-04	0.01774	
## 420	3.32e-04	0.007345	1.033	2.45e-06	0.01696	
## 421	-6.57e-03	-0.019727	1.028	1.77e-05	0.01253	
## 422	-2.33e-02	0.232069	0.946	2.44e-03	0.00998	*
## 423	-2.28e-02	0.224858	0.965	2.29e-03	0.01212	
## 424	-3.56e-03	-0.023393	1.035	2.49e-05	0.01910	
## 425	2.99e-03	-0.060941	1.042	1.69e-04	0.02797	
## 426	3.28e-02	-0.093955	1.039	4.01e-04	0.02763	
## 427	-7.02e-04	-0.027456	1.031	3.43e-05	0.01568	
## 428	-5.25e-03	-0.076970	1.042	2.69e-04	0.02900	
## 429	1.63e-03	0.009362	1.029	3.99e-06	0.01375	
## 430	1.54e-03	-0.021870	1.035	2.18e-05	0.01942	
## 431	1.29e-03	-0.130686	1.013	7.76e-04	0.01463	
## 432	5.70e-03	-0.044774	1.028	9.12e-05	0.01405	
## 433	-3.46e-03	-0.010321	1.030	4.85e-06	0.01400	
## 434	-2.50e-03	-0.057468	1.021	1.50e-04	0.01021	
## 435	4.04e-03	0.046656	1.032	9.90e-05	0.01814	
## 436	8.55e-02	0.307928	0.951	4.30e-03	0.01714	*
## 437	1.63e-02	0.283276	0.945	3.64e-03	0.01401	*
## 438	3.09e-03	-0.049191	1.015	1.10e-04	0.00567	
## 439	3.35e-02	-0.066634	1.026	2.02e-04	0.01499	
## 440	-2.73e-02	0.253311	0.954	2.91e-03	0.01280	*
## 441	-1.94e-03	0.211479	0.987	2.03e-03	0.01529	
## 442	1.21e-02	-0.054764	1.023	1.36e-04	0.01132	
## 443	-1.18e-02	-0.068472	1.032	2.13e-04	0.01938	
## 444	5.36e-03	0.229849	0.966	2.40e-03	0.01268	
## 445	9.93e-04	0.007670	1.028	2.68e-06	0.01193	
## 446	-1.93e-03	-0.048900	1.040	1.09e-04	0.02482	
## 447	9.02e-03	0.026384	1.034	3.17e-05	0.01891	
## 448	-3.30e-05	-0.000139	1.025	8.84e-10	0.00900	
## 449	-7.62e-03	-0.017759	1.028	1.43e-05	0.01313	
## 450	-1.16e-02	-0.034396	1.026	5.38e-05	0.01192	
## 451	-1.19e-02	-0.078054	1.016	2.77e-04	0.01001	
## 452	-1.25e-02	-0.111831	1.024	5.69e-04	0.01849	
## 453	6.21e-03	0.030285	1.024	4.17e-05	0.01017	
## 454	-1.01e-01	0.221806	0.994	2.23e-03	0.01837	
## 455	-2.51e-05	0.000886	1.030	3.57e-08	0.01457	
## 456	7.05e-03	0.033807	1.036	5.20e-05	0.02055	



## 457	2.82e-03	-0.012916	1.028	7.59e-06	0.01282	
## 458	-1.25e-02	0.131218	1.006	7.82e-04	0.01225	
## 459	-2.05e-03	-0.085675	1.036	3.34e-04	0.02418	
## 460	-2.24e-02	-0.121604	1.020	6.72e-04	0.01720	
## 461	8.52e-03	-0.089624	1.023	3.65e-04	0.01540	
## 462	4.79e-03	-0.056565	1.019	1.46e-04	0.00906	
## 463	-1.19e-03	-0.014363	1.027	9.38e-06	0.01169	
## 464	-9.96e-03	0.142916	1.015	9.28e-04	0.01731	
## 465	3.67e-03	-0.014781	1.027	9.94e-06	0.01121	
## 466	-1.14e-04	-0.079161	1.031	2.85e-04	0.02016	
## 467	3.99e-05	-0.000154	1.036	1.08e-09	0.01955	
## 468	-4.62e-03	-0.030702	1.033	4.29e-05	0.01787	
## 469	-1.18e-02	-0.045899	1.028	9.58e-05	0.01427	
## 470	-3.40e-02	0.422519	0.866	8.06e-03	0.01525	*
## 471	7.78e-03	-0.074869	1.022	2.55e-04	0.01326	
## 472	5.00e-04	-0.007743	1.028	2.73e-06	0.01272	
## 473	6.54e-03	-0.035738	1.019	5.81e-05	0.00646	
## 474	4.14e-03	-0.019414	1.052	1.71e-05	0.03465	*
## 475	8.99e-04	-0.093848	1.019	4.00e-04	0.01332	
## 476	-5.91e-03	-0.070776	1.022	2.28e-04	0.01236	
## 477	7.91e-03	-0.066941	1.019	2.04e-04	0.01021	
## 478	3.35e-02	-0.104350	1.054	4.95e-04	0.04013	*
## 479	-7.40e-03	-0.031978	1.022	4.65e-05	0.00809	
## 480	-2.95e-02	0.182087	0.986	1.51e-03	0.01210	
## 481	-2.35e-02	0.213062	0.973	2.06e-03	0.01244	
## 482	6.25e-03	-0.094310	1.013	4.04e-04	0.01038	
## 483	-1.51e-02	0.290586	0.946	3.83e-03	0.01478	*
## 484	4.17e-03	-0.104120	1.013	4.93e-04	0.01147	
## 485	4.72e-03	0.031171	1.032	4.42e-05	0.01732	
## 486	1.92e-03	-0.063641	1.018	1.84e-04	0.00906	
## 487	1.08e-02	-0.088237	1.020	3.54e-04	0.01348	
## 488	8.80e-03	-0.084456	1.016	3.24e-04	0.01069	
## 489	-3.64e-04	0.001195	1.025	6.49e-08	0.00990	
## 490	1.11e-03	-0.093687	1.023	3.99e-04	0.01592	
## 491	1.18e-02	-0.087723	1.013	3.50e-04	0.00965	
## 492	-1.40e-02	-0.061936	1.022	1.74e-04	0.01124	
## 493	-4.09e-04	-0.025199	1.034	2.89e-05	0.01862	
## 494	-3.16e-03	-0.066998	1.021	2.04e-04	0.01172	
## 495	-2.10e-02	-0.087533	1.020	3.48e-04	0.01302	
## 496	-3.04e-02	0.278178	0.916	3.50e-03	0.01022	*
## 497	2.91e-03	-0.086650	1.015	3.41e-04	0.01045	
## 498	3.44e-05	0.007123	1.037	2.31e-06	0.02139	
## 499	1.09e-03	-0.053733	1.018	1.31e-04	0.00779	
## 500	6.38e-05	-0.015481	1.024	1.09e-05	0.00902	
## 501	-1.57e-02	-0.088451	1.015	3.56e-04	0.01044	
## 502	7.41e-03	-0.058620	1.023	1.56e-04	0.01214	
## 503	-6.78e-03	-0.028508	1.036	3.70e-05	0.02043	
## 504	-2.01e-03	-0.014977	1.029	1.02e-05	0.01328	
## 505	-3.63e-02	0.272893	0.974	3.38e-03	0.01854	
## 506	-4.36e-04	-0.061668	1.013	1.73e-04	0.00667	

## 507	8.57e-04	0.003198	1.024	4.65e-07	0.00860
## 508	3.69e-03	-0.036458	1.020	6.05e-05	0.00743
## 509	1.20e-02	-0.104071	1.022	4.92e-04	0.01655
## 510	9.29e-04	-0.009325	1.038	3.96e-06	0.02214
## 511	9.28e-03	-0.021261	1.030	2.06e-05	0.01460
## 512	-5.20e-03	-0.114701	1.009	5.98e-04	0.01114
## 513	1.79e-02	-0.087424	1.011	3.47e-04	0.00864
## 514	-2.37e-03	0.194192	0.982	1.71e-03	0.01237
## 515	6.89e-03	0.160797	1.014	1.17e-03	0.01874
## 516	3.32e-03	-0.030236	1.027	4.16e-05	0.01267
## 517	3.66e-03	-0.053421	1.025	1.30e-04	0.01250
## 518	2.96e-04	-0.003910	1.027	6.95e-07	0.01115
## 519	-3.29e-05	-0.019159	1.027	1.67e-05	0.01159
## 520	-1.38e-02	-0.063943	1.029	1.86e-04	0.01656
## 521	-8.88e-05	-0.003574	1.025	5.81e-07	0.00915
## 522	4.21e-04	-0.039821	1.031	7.21e-05	0.01689
## 523	1.51e-03	-0.016619	1.027	1.26e-05	0.01210
## 524	5.75e-03	-0.056789	1.039	1.47e-04	0.02450
## 525	-9.58e-03	-0.053251	1.028	1.29e-04	0.01473
## 526	-5.97e-02	0.202988	0.955	1.87e-03	0.00890
## 527	-3.36e-03	-0.070369	1.029	2.25e-04	0.01743
## 528	-1.32e-03	-0.005217	1.024	1.24e-06	0.00895
## 529	1.09e-02	0.219921	0.959	2.19e-03	0.01071
## 530	-5.60e-05	-0.000223	1.028	2.27e-09	0.01262
## 531	-7.17e-04	-0.006065	1.028	1.67e-06	0.01239
## 532	-4.92e-03	-0.019981	1.026	1.82e-05	0.01131
## 533	-5.40e-03	-0.029929	1.028	4.07e-05	0.01289
## 534	-1.51e-02	-0.088203	1.031	3.54e-04	0.02063
## 535	3.09e-03	0.065299	1.027	1.94e-04	0.01572
## 536	1.15e-02	-0.049678	1.036	1.12e-04	0.02169
## 537	-8.14e-04	-0.108589	1.024	5.36e-04	0.01827
## 538	-4.06e-03	-0.048045	1.034	1.05e-04	0.01980
## 539	4.36e-03	0.050892	1.032	1.18e-04	0.01798
## 540	-7.36e-04	-0.018515	1.027	1.56e-05	0.01207
## 541	3.40e-02	0.166675	1.004	1.26e-03	0.01556
## 542	-2.43e-04	0.006799	1.035	2.10e-06	0.01908
## 543	9.94e-03	-0.111679	1.016	5.67e-04	0.01393
## 544	-1.82e-02	-0.156118	1.020	1.11e-03	0.02109
## 545	-4.24e-02	-0.131792	1.040	7.90e-04	0.03162
## 546	-3.15e-03	-0.025868	1.034	3.04e-05	0.01861
## 547	7.93e-03	-0.065166	1.017	1.93e-04	0.00907
## 548	4.36e-03	0.250079	0.961	2.84e-03	0.01361
## 549	-2.61e-03	-0.040225	1.025	7.36e-05	0.01129
## 550	-2.78e-03	-0.061319	1.015	1.71e-04	0.00753
## 551	8.16e-03	-0.063348	1.020	1.82e-04	0.01037
## 552	-2.80e-03	-0.018741	1.028	1.60e-05	0.01293
## 553	-2.31e-02	0.053051	1.033	1.28e-04	0.01932
## 554	-9.75e-03	-0.116923	1.009	6.21e-04	0.01163
## 555	-1.86e-02	-0.088619	1.023	3.57e-04	0.01491
## 556	-8.51e-05	-0.021171	1.022	2.04e-05	0.00734

## 557	1.24e-04	-0.004717	1.034	1.01e-06	0.01791	
## 558	-2.15e-03	0.020559	1.037	1.92e-05	0.02137	
## 559	-4.10e-03	-0.062111	1.022	1.75e-04	0.01171	
## 560	-1.32e-03	-0.102646	1.017	4.79e-04	0.01339	
## 561	6.99e-03	-0.064430	1.022	1.89e-04	0.01165	
## 562	1.16e-02	0.062706	1.065	1.79e-04	0.04801	*
## 563	3.64e-02	0.251654	0.957	2.87e-03	0.01306	
## 564	2.00e-03	-0.070152	1.024	2.24e-04	0.01405	
## 565	3.92e-02	-0.100601	1.019	4.60e-04	0.01435	
## 566	2.47e-03	-0.076205	1.017	2.64e-04	0.01033	
## 567	-6.77e-03	0.227534	0.986	2.35e-03	0.01687	
## 568	4.13e-05	-0.007133	1.025	2.31e-06	0.00984	
## 569	6.62e-02	0.359082	0.918	5.83e-03	0.01637	*
## 570	-1.60e-02	-0.067641	1.034	2.08e-04	0.02143	
## 571	-1.50e-03	0.040136	1.036	7.33e-05	0.02088	
## 572	1.92e-02	-0.140685	1.016	9.00e-04	0.01758	
## 573	3.21e-02	-0.065218	1.024	1.93e-04	0.01329	
## 574	-2.82e-02	0.220278	0.959	2.20e-03	0.01073	
## 575	-5.71e-04	-0.031512	1.024	4.52e-05	0.01036	
## 576	-9.88e-03	-0.091969	1.025	3.85e-04	0.01715	
## 577	7.92e-03	-0.039038	1.024	6.93e-05	0.01044	
## 578	2.69e-03	-0.111347	1.009	5.64e-04	0.01083	
## 579	-6.47e-02	-0.186365	1.008	1.58e-03	0.01949	
## 580	1.07e-02	-0.098642	1.014	4.42e-04	0.01147	
## 581	1.45e-03	-0.038251	1.020	6.65e-05	0.00747	
## 582	-2.41e-03	-0.043948	1.026	8.78e-05	0.01279	
## 583	-1.28e-04	-0.001112	1.032	5.63e-08	0.01608	
## 584	9.31e-04	-0.027854	1.020	3.53e-05	0.00629	
## 585	5.78e-03	-0.055127	1.039	1.38e-04	0.02502	
## 586	-2.53e-02	0.234437	0.966	2.49e-03	0.01306	
## 587	5.65e-03	-0.055904	1.026	1.42e-04	0.01366	
## 588	3.39e-03	0.028957	1.028	3.81e-05	0.01360	
## 589	3.76e-03	0.049537	1.028	1.12e-04	0.01454	
## 590	-1.50e-02	0.167411	0.992	1.27e-03	0.01183	
## 591	-3.20e-04	0.016988	1.025	1.31e-05	0.00982	
## 592	-1.41e-02	0.189018	0.968	1.62e-03	0.00935	
## 593	6.15e-02	-0.086215	1.061	3.38e-04	0.04513	*
## 594	-2.05e-04	0.001900	1.022	1.64e-07	0.00698	
## 595	1.35e-03	0.017687	1.030	1.42e-05	0.01472	
## 596	-2.08e-01	0.432599	0.955	8.48e-03	0.02992	*
## 597	3.99e-04	-0.018911	1.025	1.63e-05	0.00996	
## 598	1.03e-03	-0.049396	1.020	1.11e-04	0.00898	
## 599	-2.92e-02	0.204516	0.942	1.90e-03	0.00763	*
## 600	-3.86e-03	-0.025082	1.021	2.86e-05	0.00666	
## 601	4.92e-04	-0.004767	1.027	1.03e-06	0.01136	
## 602	1.62e-02	-0.133763	1.000	8.13e-04	0.01055	
## 603	7.21e-03	-0.146814	1.006	9.79e-04	0.01403	
## 604	7.85e-03	-0.095224	1.017	4.12e-04	0.01264	
## 605	-1.07e-02	-0.058661	1.025	1.56e-04	0.01359	
## 606	1.38e-02	-0.130560	1.010	7.75e-04	0.01357	

## 607	-2.98e-03	-0.098149	1.012	4.38e-04	0.01057	
## 608	5.29e-02	0.441662	0.865	8.80e-03	0.01639	*
## 609	-9.35e-02	0.351270	0.920	5.58e-03	0.01602	*
## 610	7.88e-03	-0.043876	1.031	8.76e-05	0.01714	
## 611	-1.49e-02	-0.056594	1.032	1.46e-04	0.01830	
## 612	-7.40e-04	-0.004268	1.024	8.29e-07	0.00875	
## 613	6.84e-03	-0.106639	1.012	5.17e-04	0.01132	
## 614	3.80e-04	-0.017964	1.026	1.47e-05	0.01079	
## 615	4.64e-02	0.219530	0.968	2.19e-03	0.01203	
## 616	4.96e-04	-0.005852	1.031	1.56e-06	0.01531	
## 617	1.54e-02	0.024144	1.043	2.65e-05	0.02642	
## 618	2.89e-06	-0.042281	1.019	8.13e-05	0.00749	
## 619	3.14e-02	-0.122705	1.013	6.84e-04	0.01405	
## 620	8.48e-04	0.006505	1.033	1.92e-06	0.01753	
## 621	4.84e-02	-0.156648	1.007	1.11e-03	0.01552	
## 622	-1.84e-03	-0.037856	1.028	6.52e-05	0.01418	
## 623	2.32e-04	-0.027072	1.025	3.33e-05	0.01086	
## 624	1.98e-03	-0.065711	1.024	1.96e-04	0.01298	
## 625	-1.15e-02	-0.094583	1.036	4.07e-04	0.02482	
## 626	6.84e-03	-0.051966	1.021	1.23e-04	0.00987	
## 627	2.02e-04	-0.002878	1.023	3.77e-07	0.00760	
## 628	6.05e-03	-0.014333	1.042	9.34e-06	0.02545	
## 629	2.54e-03	-0.027325	1.024	3.40e-05	0.00932	
## 630	-7.69e-03	-0.035279	1.025	5.66e-05	0.01143	
## 631	2.41e-04	-0.042820	1.033	8.34e-05	0.01846	
## 632	2.24e-03	-0.081077	1.023	2.99e-04	0.01460	
## 633	-8.86e-03	-0.156449	1.001	1.11e-03	0.01333	
## 634	4.19e-03	-0.071820	1.018	2.35e-04	0.01010	
## 635	4.86e-03	-0.118291	1.014	6.36e-04	0.01372	
## 636	-1.28e-02	-0.025953	1.032	3.06e-05	0.01647	
## 637	6.67e-02	0.259313	0.995	3.05e-03	0.02307	
## 638	1.00e-03	0.030791	1.030	4.31e-05	0.01517	
## 639	-5.52e-04	-0.056239	1.023	1.44e-04	0.01136	
## 640	8.76e-04	-0.022431	1.029	2.29e-05	0.01338	
## 641	-5.97e-03	-0.061877	1.029	1.74e-04	0.01644	
## 642	2.92e-02	-0.070236	1.018	2.24e-04	0.01022	
## 643	-1.94e-03	-0.058112	1.017	1.54e-04	0.00815	
## 644	6.93e-04	-0.031113	1.027	4.40e-05	0.01213	
## 645	1.05e-02	-0.052463	1.020	1.25e-04	0.00912	
## 646	2.22e-04	0.204088	0.966	1.89e-03	0.01046	
## 647	6.17e-04	0.009730	1.033	4.31e-06	0.01733	
## 648	-9.53e-04	-0.015781	1.025	1.13e-05	0.00947	
## 649	1.76e-02	-0.047089	1.025	1.01e-04	0.01193	
## 650	2.97e-03	0.035615	1.033	5.77e-05	0.01831	
## 651	2.16e-03	-0.021494	1.027	2.10e-05	0.01202	
## 652	-1.35e-02	-0.061571	1.030	1.72e-04	0.01738	
## 653	-6.90e-02	-0.194406	1.026	1.72e-03	0.02905	
## 654	1.98e-02	-0.066608	1.063	2.02e-04	0.04622	*
## 655	2.04e-03	0.019089	1.025	1.66e-05	0.00968	
## 656	-2.68e-03	-0.058409	1.022	1.55e-04	0.01090	

## 657	-1.59e-03	0.190197	1.009	1.64e-03	0.02001	
## 658	-1.42e-03	-0.038605	1.022	6.78e-05	0.00939	
## 659	6.96e-02	-0.157333	1.004	1.12e-03	0.01429	
## 660	4.92e-03	-0.059679	1.019	1.62e-04	0.00953	
## 661	-7.95e-03	0.343248	0.967	5.34e-03	0.02399	
## 662	4.99e-03	-0.050121	1.030	1.14e-04	0.01632	
## 663	-2.82e-03	0.185289	0.957	1.56e-03	0.00771	
## 664	-3.30e-02	0.257054	0.942	2.99e-03	0.01147	*
## 665	-1.53e-02	-0.044335	1.024	8.94e-05	0.01113	
## 666	-4.57e-03	-0.124138	1.017	7.00e-04	0.01584	
## 667	-7.33e-03	0.257783	0.957	3.01e-03	0.01369	
## 668	-1.09e-01	0.277069	0.973	3.48e-03	0.01869	
## 669	1.37e-04	-0.017709	1.021	1.43e-05	0.00652	
## 670	-2.40e-03	0.235730	0.968	2.52e-03	0.01358	
## 671	1.41e-02	-0.059320	1.012	1.60e-04	0.00587	
## 672	7.71e-03	-0.049979	1.018	1.14e-04	0.00758	
## 673	1.69e-03	-0.042016	1.016	8.03e-05	0.00559	
## 674	1.15e-04	-0.161728	0.993	1.19e-03	0.01165	
## 675	-1.41e-02	-0.071260	1.027	2.31e-04	0.01594	
## 676	2.12e-02	-0.067810	1.025	2.09e-04	0.01453	
## 677	-7.47e-03	-0.069336	1.031	2.19e-04	0.01928	
## 678	1.09e-02	-0.029764	1.045	4.03e-05	0.02897	
## 679	1.42e-03	-0.018474	1.027	1.55e-05	0.01203	
## 680	-2.07e-03	0.004157	1.037	7.86e-07	0.02088	
## 681	1.49e-02	-0.058723	1.020	1.57e-04	0.00984	
## 682	9.86e-03	0.041072	1.029	7.67e-05	0.01511	
## 683	-1.01e-03	-0.029896	1.028	4.07e-05	0.01309	
## 684	-1.53e-02	0.158417	0.987	1.14e-03	0.00986	
## 685	7.03e-03	-0.072801	1.019	2.41e-04	0.01094	
## 686	-1.89e-02	-0.106667	1.019	5.17e-04	0.01477	
## 687	-4.81e-02	-0.100198	1.041	4.57e-04	0.02935	
## 688	-3.38e-03	-0.013919	1.027	8.81e-06	0.01116	
## 689	-1.41e-02	0.158979	1.003	1.15e-03	0.01424	
## 690	-3.15e-02	0.196111	0.980	1.75e-03	0.01204	
## 691	7.60e-03	-0.109893	1.019	5.49e-04	0.01540	
## 692	1.10e-02	-0.129104	1.015	7.58e-04	0.01577	
## 693	9.92e-03	-0.036133	1.024	5.94e-05	0.01077	
## 694	-8.96e-03	0.240990	0.934	2.63e-03	0.00938	*
## 695	-1.56e-02	-0.059989	1.019	1.64e-04	0.00920	
## 696	3.79e-02	0.330923	0.968	4.97e-03	0.02289	
## 697	7.74e-03	0.036694	1.030	6.12e-05	0.01543	
## 698	-8.08e-04	-0.050826	1.022	1.17e-04	0.01051	
## 699	1.02e-02	-0.025751	1.022	3.02e-05	0.00783	
## 700	1.99e-02	0.075219	1.024	2.57e-04	0.01460	
## 701	-3.19e-02	0.405901	0.917	7.45e-03	0.02003	*
## 702	-1.79e-02	0.034580	1.048	5.44e-05	0.03197	*
## 703	-1.42e-03	-0.006303	1.032	1.81e-06	0.01593	
## 704	2.97e-04	-0.097268	1.021	4.30e-04	0.01517	
## 705	1.37e-02	0.083620	1.021	3.18e-04	0.01356	
## 706	-7.32e-04	-0.005313	1.030	1.28e-06	0.01464	

## 707	-3.26e-02	0.367289	0.975	6.12e-03	0.02860	
## 708	9.76e-03	-0.044431	1.037	8.98e-05	0.02256	
## 709	9.06e-03	0.048725	1.029	1.08e-04	0.01585	
## 710	-7.47e-03	0.203435	0.995	1.88e-03	0.01671	
## 711	2.07e-02	-0.050725	1.045	1.17e-04	0.02989	
## 712	-1.04e-02	0.153399	0.994	1.07e-03	0.01103	
## 713	1.73e-03	-0.050435	1.016	1.16e-04	0.00652	
## 714	-3.92e-03	0.035888	1.024	5.86e-05	0.01060	
## 715	4.15e-04	0.107169	1.030	5.22e-04	0.02197	
## 716	2.21e-02	-0.093996	1.017	4.02e-04	0.01217	
## 717	2.65e-03	0.081247	1.042	3.00e-04	0.02877	
## 718	2.01e-04	-0.045027	1.018	9.22e-05	0.00683	
## 719	-1.07e-02	-0.069477	1.036	2.20e-04	0.02286	
## 720	-2.50e-02	-0.073656	1.028	2.47e-04	0.01727	
## 721	-3.84e-02	0.190845	0.986	1.65e-03	0.01293	
## 722	3.20e-03	-0.014903	1.031	1.01e-05	0.01533	
## 723	-2.61e-03	-0.049103	1.021	1.10e-04	0.00932	
## 724	1.44e-02	0.054896	1.021	1.37e-04	0.00987	
## 725	2.90e-03	-0.044165	1.024	8.87e-05	0.01137	
## 726	-8.42e-03	0.237270	0.985	2.56e-03	0.01763	
## 727	5.96e-04	-0.059663	1.023	1.62e-04	0.01220	
## 728	8.91e-03	-0.076432	1.024	2.66e-04	0.01464	
## 729	1.32e-02	0.045036	1.023	9.22e-05	0.01068	
## 730	1.07e-01	-0.174987	1.020	1.39e-03	0.02340	
## 731	-1.66e-02	-0.101553	1.022	4.69e-04	0.01611	
## 732	-1.47e-02	0.149491	1.001	1.02e-03	0.01240	
## 733	-1.40e-02	0.178047	0.970	1.44e-03	0.00873	
## 734	-1.16e-02	0.043324	1.026	8.54e-05	0.01240	
## 735	2.97e-02	-0.149622	1.006	1.02e-03	0.01424	
## 736	9.94e-04	-0.095844	1.021	4.18e-04	0.01478	
## 737	2.29e-04	-0.004417	1.027	8.88e-07	0.01129	
## 738	4.81e-03	-0.032573	1.020	4.83e-05	0.00692	
## 739	-2.56e-04	0.002613	1.033	3.11e-07	0.01686	
## 740	1.62e-03	-0.030712	1.024	4.29e-05	0.00976	
## 741	3.93e-04	-0.026378	1.025	3.16e-05	0.01008	
## 742	-1.89e-03	0.048665	1.033	1.08e-04	0.01890	
## 743	2.73e-03	-0.026230	1.024	3.13e-05	0.00992	
## 744	-3.29e-03	-0.088389	1.024	3.55e-04	0.01595	
## 745	-2.69e-02	0.258796	0.974	3.04e-03	0.01709	
## 746	-2.24e-02	-0.123563	1.015	6.94e-04	0.01509	
## 747	-6.02e-03	0.060536	1.046	1.67e-04	0.03071	*
## 748	1.06e-02	-0.121562	1.012	6.72e-04	0.01337	
## 749	-3.94e-03	0.246147	0.995	2.75e-03	0.02135	
## 750	-2.01e-01	0.528485	0.902	1.26e-02	0.02798	*
## 751	-2.02e-03	-0.007687	1.040	2.69e-06	0.02364	
## 752	4.64e-02	0.134059	1.032	8.17e-04	0.02580	
## 753	9.73e-02	0.431103	0.949	8.42e-03	0.02847	*
## 754	1.68e-02	-0.190406	1.010	1.65e-03	0.02052	
## 755	7.89e-05	-0.075696	1.023	2.61e-04	0.01341	
## 756	-1.52e-02	0.063913	1.029	1.86e-04	0.01692	

## 757	-7.69e-03	-0.060142	1.034	1.65e-04	0.02072	
## 758	9.25e-03	0.035658	1.040	5.78e-05	0.02493	
## 759	-4.45e-03	-0.050115	1.032	1.14e-04	0.01787	
## 760	-3.88e-03	-0.087158	1.018	3.45e-04	0.01200	
## 761	-1.05e-02	-0.030943	1.038	4.36e-05	0.02244	
## 762	-3.74e-02	0.240504	0.931	2.62e-03	0.00909	*
## 763	-8.70e-03	0.161880	1.000	1.19e-03	0.01362	
## 764	1.07e-02	-0.077283	1.012	2.72e-04	0.00803	
## 765	5.10e-03	-0.032181	1.023	4.71e-05	0.00894	
## 766	-3.70e-04	-0.037249	1.021	6.31e-05	0.00847	
## 767	-2.55e-02	-0.076327	1.033	2.65e-04	0.02096	
## 768	1.54e-02	-0.058914	1.022	1.58e-04	0.01129	
## 769	-1.38e-04	-0.080974	1.023	2.98e-04	0.01444	
## 770	2.11e-03	-0.087054	1.016	3.45e-04	0.01107	
## 771	5.14e-03	0.082048	1.029	3.06e-04	0.01865	
## 772	1.40e-02	-0.034206	1.030	5.32e-05	0.01534	
## 773	1.70e-03	-0.041779	1.030	7.94e-05	0.01624	
## 774	-2.33e-03	-0.040480	1.023	7.45e-05	0.00993	
## 775	1.02e-02	-0.040705	1.041	7.54e-05	0.02603	
## 776	1.31e-03	-0.025446	1.029	2.95e-05	0.01358	
## 777	2.53e-03	0.176905	0.982	1.42e-03	0.01063	
## 778	-2.82e-02	0.187166	0.984	1.59e-03	0.01209	
## 779	1.30e-02	-0.062383	1.036	1.77e-04	0.02222	
## 780	9.73e-02	0.374580	0.958	6.36e-03	0.02489	*
## 781	8.04e-02	0.347108	0.955	5.46e-03	0.02155	
## 782	2.51e-03	-0.095782	1.013	4.17e-04	0.01060	
## 783	6.53e-03	-0.068742	1.023	2.15e-04	0.01320	
## 784	4.65e-03	0.017629	1.026	1.41e-05	0.01090	
## 785	4.43e-04	-0.009028	1.028	3.71e-06	0.01203	
## 786	2.98e-02	-0.059627	1.036	1.62e-04	0.02211	
## 787	-1.42e-03	-0.091805	1.027	3.83e-04	0.01844	
## 788	1.76e-06	0.004180	1.028	7.95e-07	0.01282	
## 789	-3.67e-03	-0.020665	1.024	1.94e-05	0.00908	
## 790	-9.11e-02	0.347347	0.918	5.46e-03	0.01551	*
## 791	-7.21e-05	0.005399	1.029	1.33e-06	0.01317	
## 792	4.71e-02	0.274350	0.958	3.41e-03	0.01530	
## 793	1.74e-02	0.241155	0.978	2.64e-03	0.01620	
## 794	6.92e-03	-0.062789	1.017	1.79e-04	0.00852	
## 795	-8.82e-03	-0.093557	1.016	3.98e-04	0.01193	
## 796	3.20e-03	-0.077579	1.018	2.74e-04	0.01115	
## 797	4.26e-02	0.318116	0.929	4.58e-03	0.01467	*
## 798	-4.28e-02	0.271523	0.948	3.34e-03	0.01339	*
## 799	1.72e-03	0.125203	1.009	7.12e-04	0.01244	
## 800	7.22e-03	-0.039924	1.039	7.25e-05	0.02376	
## 801	-2.37e-02	0.226913	0.968	2.34e-03	0.01276	
## 802	-9.36e-03	0.252736	0.972	2.90e-03	0.01603	
## 803	1.94e-03	-0.042421	1.025	8.18e-05	0.01135	
## 804	8.31e-04	-0.014791	1.028	9.95e-06	0.01286	
## 805	-5.10e-03	0.028844	1.045	3.78e-05	0.02879	
## 806	9.92e-03	0.027012	1.030	3.32e-05	0.01457	

## 807	2.92e-02	-0.052229	1.024	1.24e-04	0.01172	
## 808	-1.49e-02	-0.057696	1.021	1.51e-04	0.01053	
## 809	6.79e-04	0.002839	1.032	3.67e-07	0.01629	
## 810	2.82e-03	0.025042	1.029	2.85e-05	0.01379	
## 811	5.36e-03	0.020972	1.028	2.00e-05	0.01261	
## 812	7.16e-03	-0.052748	1.026	1.27e-04	0.01375	
## 813	2.73e-02	-0.070241	1.028	2.24e-04	0.01690	
## 814	-1.21e-01	0.404647	0.936	7.41e-03	0.02316	*
## 815	-1.14e-03	-0.020615	1.034	1.93e-05	0.01817	
## 816	-4.57e-03	-0.152076	0.998	1.05e-03	0.01179	
## 817	3.05e-03	-0.040902	1.025	7.61e-05	0.01168	
## 818	-1.68e-03	-0.009979	1.037	4.53e-06	0.02114	
## 819	4.64e-05	-0.042441	1.024	8.19e-05	0.01120	
## 820	-7.04e-03	-0.089248	1.019	3.62e-04	0.01274	
## 821	9.09e-04	-0.011536	1.027	6.05e-06	0.01184	
## 822	-2.78e-03	0.009235	1.027	3.88e-06	0.01157	
## 823	3.49e-03	-0.070959	1.023	2.29e-04	0.01308	
## 824	2.61e-02	-0.068145	1.023	2.11e-04	0.01317	
## 825	1.29e-02	-0.150898	1.016	1.03e-03	0.01883	
## 826	4.62e-02	-0.107431	1.011	5.25e-04	0.01136	
## 827	2.03e-03	-0.004272	1.031	8.30e-07	0.01529	
## 828	-6.22e-03	-0.136755	1.001	8.50e-04	0.01097	
## 829	-3.16e-02	0.285714	0.945	3.70e-03	0.01416	*
## 830	5.84e-03	0.156867	0.993	1.12e-03	0.01110	
## 831	5.37e-03	-0.112118	1.013	5.71e-04	0.01282	
## 832	6.20e-05	0.209932	0.944	2.00e-03	0.00822	*
## 833	-3.84e-04	-0.034439	1.024	5.39e-05	0.01041	
## 834	2.68e-03	-0.040458	1.019	7.44e-05	0.00733	
## 835	2.90e-03	-0.017583	1.022	1.41e-05	0.00695	
## 836	-3.32e-03	-0.068485	1.022	2.13e-04	0.01195	
## 837	9.50e-02	0.365836	0.939	6.06e-03	0.02027	*
## 838	-2.45e-02	-0.058360	1.032	1.55e-04	0.01857	
## 839	7.12e-02	0.234871	1.000	2.50e-03	0.02197	
## 840	-7.17e-03	-0.054848	1.021	1.37e-04	0.00986	
## 841	-6.53e-03	-0.015138	1.028	1.04e-05	0.01221	
## 842	1.12e-02	-0.091756	1.018	3.83e-04	0.01235	
## 843	-2.60e-02	0.210453	0.958	2.01e-03	0.00984	
## 844	4.30e-03	0.027215	1.031	3.37e-05	0.01583	
## 845	2.22e-03	-0.024717	1.019	2.78e-05	0.00566	
## 846	2.11e-02	-0.203157	1.006	1.87e-03	0.02045	
## 847	1.22e-03	-0.013387	1.027	8.15e-06	0.01152	
## 848	-1.03e-02	-0.085053	1.023	3.29e-04	0.01495	
## 849	-2.23e-03	-0.043180	1.026	8.48e-05	0.01232	
## 850	1.13e-02	0.246986	0.968	2.77e-03	0.01462	
## 851	3.62e-03	-0.031279	1.029	4.45e-05	0.01419	
## 852	-1.14e-03	0.033930	1.032	5.24e-05	0.01741	
## 853	3.01e-03	0.013717	1.026	8.56e-06	0.01037	
## 854	2.19e-02	-0.115757	1.013	6.09e-04	0.01298	
## 855	-2.18e-03	-0.105452	1.014	5.05e-04	0.01239	
## 856	1.14e-02	0.025577	1.025	2.98e-05	0.01033	



## 857	3.10e-04	-0.118338	1.004	6.36e-04	0.00981	
## 858	-3.52e-02	0.216555	0.965	2.13e-03	0.01127	
## 859	2.34e-02	0.093514	1.022	3.98e-04	0.01492	
## 860	1.37e-03	-0.143873	0.999	9.40e-04	0.01135	
## 861	-4.92e-03	0.199217	0.983	1.80e-03	0.01314	
## 862	-1.45e-03	0.004346	1.042	8.59e-07	0.02520	
## 863	3.99e-03	-0.105673	1.026	5.08e-04	0.01906	
## 864	-1.85e-03	-0.022616	1.023	2.33e-05	0.00833	
## 865	-3.62e-02	0.337209	0.957	5.15e-03	0.02097	
## 866	9.96e-04	-0.050807	1.026	1.17e-04	0.01357	
## 867	5.62e-03	-0.063502	1.021	1.83e-04	0.01104	
## 868	-9.25e-05	-0.002952	1.047	3.96e-07	0.03009	*
## 869	8.29e-03	-0.067120	1.018	2.05e-04	0.00973	
## 870	3.56e-03	0.036241	1.030	5.97e-05	0.01567	
## 871	-2.14e-02	-0.083406	1.021	3.16e-04	0.01303	
## 872	-3.69e-02	0.268560	0.943	3.27e-03	0.01256	*
## 873	4.42e-02	-0.089845	1.025	3.67e-04	0.01629	
## 874	-6.62e-03	-0.024349	1.027	2.70e-05	0.01184	
## 875	-4.31e-03	-0.015817	1.028	1.14e-05	0.01247	
## 876	-1.20e-02	-0.029722	1.050	4.02e-05	0.03371	*
## 877	-1.88e-05	-0.067731	1.021	2.09e-04	0.01168	
## 878	2.65e-03	0.029359	1.026	3.92e-05	0.01166	
## 879	-2.36e-04	0.055450	1.032	1.40e-04	0.01852	
## 880	2.97e-03	0.011719	1.037	6.25e-06	0.02077	
## 881	-1.14e-03	-0.100567	1.012	4.60e-04	0.01095	
## 882	-1.84e-02	-0.100193	1.017	4.56e-04	0.01304	
## 883	-2.98e-02	-0.151034	1.019	1.04e-03	0.02005	
## 884	-2.44e-03	-0.014056	1.029	8.99e-06	0.01364	
## 885	-4.66e-03	-0.051304	1.024	1.20e-04	0.01215	
## 886	1.10e-02	-0.041141	1.020	7.70e-05	0.00783	
## 887	-1.11e-03	-0.065147	1.025	1.93e-04	0.01364	
## 888	1.27e-02	-0.233020	0.997	2.47e-03	0.02072	
## 889	-3.76e-02	-0.070321	1.039	2.25e-04	0.02521	
## 890	-3.48e-02	-0.173611	0.998	1.37e-03	0.01433	
## 891	9.13e-04	0.030675	1.042	4.28e-05	0.02624	
## 892	8.74e-05	0.000595	1.029	1.61e-08	0.01336	
## 893	-2.54e-02	0.222496	1.010	2.25e-03	0.02425	
## 894	1.71e-04	-0.024178	1.025	2.66e-05	0.01071	
## 895	4.06e-02	0.160495	1.023	1.17e-03	0.02345	
## 896	3.78e-02	-0.112877	1.009	5.79e-04	0.01101	
## 897	-1.30e-02	-0.083168	1.021	3.15e-04	0.01349	
## 898	-5.82e-03	-0.024694	1.031	2.77e-05	0.01555	
## 899	1.25e-02	0.052520	1.034	1.25e-04	0.01988	
## 900	1.19e-04	-0.007358	1.034	2.46e-06	0.01818	
## 901	1.09e-03	-0.038568	1.030	6.77e-05	0.01547	
## 902	4.99e-03	-0.038385	1.027	6.70e-05	0.01273	
## 903	8.93e-04	-0.031770	1.023	4.59e-05	0.00877	
## 904	1.91e-02	-0.080816	1.020	2.97e-04	0.01221	
## 905	-2.64e-04	0.012522	1.035	7.13e-06	0.01953	
## 906	1.20e-02	0.051762	1.035	1.22e-04	0.02115	

## 907	3.94e-03	-0.027717	1.024	3.49e-05	0.00972	
## 908	-1.60e-04	0.034494	1.027	5.41e-05	0.01304	
## 909	2.69e-04	0.001246	1.030	7.06e-08	0.01443	
## 910	2.20e-03	-0.183083	0.999	1.52e-03	0.01564	
## 911	7.62e-04	-0.022932	1.026	2.39e-05	0.01079	
## 912	-8.24e-03	0.117885	1.018	6.32e-04	0.01556	
## 913	4.10e-02	-0.124273	1.005	7.02e-04	0.01106	
## 914	1.49e-02	0.360936	0.975	5.91e-03	0.02787	
## 915	1.62e-01	-0.245768	1.073	2.75e-03	0.06570	*
## 916	-6.01e-03	0.179415	1.003	1.46e-03	0.01670	
## 917	1.08e-02	0.035873	1.031	5.85e-05	0.01643	
## 918	5.66e-03	-0.145330	1.000	9.60e-04	0.01180	
## 919	2.06e-02	-0.110787	1.040	5.58e-04	0.02986	
## 920	-1.95e-04	0.001383	1.031	8.70e-08	0.01505	
## 921	-1.18e-02	-0.040789	1.031	7.57e-05	0.01636	
## 922	1.11e-02	-0.151254	0.996	1.04e-03	0.01130	
## 923	3.62e-03	0.031028	1.041	4.38e-05	0.02499	
## 924	-6.13e-03	-0.040129	1.027	7.32e-05	0.01319	
## 925	-9.15e-04	-0.065836	1.009	1.97e-04	0.00563	
## 926	1.48e-02	-0.104806	1.025	4.99e-04	0.01813	
## 927	-1.09e-02	-0.020724	1.047	1.95e-05	0.03077	*
## 928	-1.69e-02	-0.092826	1.022	3.92e-04	0.01527	
## 929	-2.94e-02	0.340043	0.890	5.23e-03	0.01205	*
## 930	-8.81e-03	-0.140051	1.008	8.91e-04	0.01394	
## 931	-6.01e-02	-0.179438	1.016	1.46e-03	0.02206	
## 932	-2.14e-02	-0.086115	1.021	3.37e-04	0.01337	
## 933	5.26e-02	0.255333	0.959	2.96e-03	0.01376	
## 934	6.36e-03	-0.076058	1.015	2.63e-04	0.00909	
## 935	1.36e-02	-0.079722	1.015	2.89e-04	0.00981	
## 936	1.37e-02	0.054279	1.021	1.34e-04	0.01019	
## 937	5.93e-03	-0.131602	1.030	7.87e-04	0.02440	
## 938	1.08e-01	-0.225016	1.022	2.30e-03	0.03037	
## 939	-1.92e-03	-0.058920	1.038	1.58e-04	0.02354	
## 940	-1.54e-01	0.290998	0.891	3.83e-03	0.00909	*
## 941	2.85e-03	0.231362	0.958	2.43e-03	0.01147	
## 942	-1.83e-02	-0.061579	1.024	1.72e-04	0.01310	
## 943	6.27e-03	0.027709	1.025	3.49e-05	0.01060	
## 944	-8.82e-03	-0.038772	1.029	6.84e-05	0.01518	
## 945	1.14e-03	-0.021785	1.035	2.16e-05	0.01974	
## 946	-4.33e-03	-0.102718	1.029	4.80e-04	0.02059	
## 947	-6.15e-02	0.197760	0.990	1.78e-03	0.01458	
## 948	4.08e-02	0.270241	0.973	3.31e-03	0.01803	
## 949	-5.42e-02	-0.141859	1.021	9.15e-04	0.02034	
## 950	-1.06e-02	-0.063575	1.022	1.84e-04	0.01154	
## 951	1.62e-03	-0.056364	1.034	1.44e-04	0.02033	
## 952	-1.84e-02	-0.179898	1.029	1.47e-03	0.02938	
## 953	-2.64e-03	0.191146	0.986	1.66e-03	0.01286	
## 954	-8.80e-03	0.278494	0.928	3.51e-03	0.01141	*
## 955	-1.44e-03	-0.015162	1.041	1.05e-05	0.02445	
## 956	5.49e-03	0.024657	1.034	2.77e-05	0.01831	

## 957	-1.85e-04	-0.000697	1.040	2.21e-08	0.02420	
## 958	1.39e-03	-0.005405	1.030	1.33e-06	0.01382	
## 959	2.21e-03	0.041724	1.025	7.92e-05	0.01168	
## 960	-4.35e-03	-0.021439	1.028	2.09e-05	0.01284	
## 961	-7.26e-03	-0.030208	1.028	4.15e-05	0.01317	
## 962	7.11e-02	-0.157535	1.003	1.13e-03	0.01407	
## 963	4.70e-03	-0.021108	1.054	2.03e-05	0.03667	*
## 964	-1.48e-03	-0.006333	1.026	1.82e-06	0.01070	
## 965	5.20e-03	-0.087540	1.018	3.48e-04	0.01196	
## 966	6.79e-04	-0.029142	1.024	3.86e-05	0.01007	
## 967	7.60e-02	0.324373	0.948	4.77e-03	0.01815	*
## 968	-1.02e-03	-0.025948	1.023	3.06e-05	0.00887	
## 969	-2.86e-02	-0.069202	1.030	2.18e-04	0.01817	
## 970	7.61e-03	0.045999	1.028	9.62e-05	0.01485	
## 971	5.33e-04	-0.003984	1.026	7.22e-07	0.01009	
## 972	-8.13e-04	-0.034137	1.031	5.30e-05	0.01628	
## 973	1.69e-03	-0.022540	1.034	2.31e-05	0.01881	
## 974	-2.53e-03	0.004283	1.028	8.35e-07	0.01204	
## 975	3.48e-02	-0.119675	1.018	6.51e-04	0.01609	
## 976	-2.32e-02	0.310532	0.954	4.37e-03	0.01787	*
## 977	1.27e-02	-0.071000	1.040	2.29e-04	0.02648	
## 978	2.25e-02	-0.073138	1.031	2.43e-04	0.01891	
## 979	-3.81e-04	0.031516	1.033	4.52e-05	0.01768	
## 980	-8.71e-03	-0.051884	1.024	1.22e-04	0.01156	
## 981	-1.92e-02	0.239775	0.955	2.61e-03	0.01183	
## 982	-1.34e-02	0.200021	0.974	1.82e-03	0.01136	
## 983	-2.21e-04	-0.005122	1.028	1.19e-06	0.01247	
## 984	4.44e-03	0.016147	1.030	1.19e-05	0.01410	
## 985	-7.48e-03	-0.082516	1.018	3.10e-04	0.01128	
## 986	6.40e-02	0.248101	0.966	2.79e-03	0.01425	
## 987	-1.44e-02	-0.119593	1.018	6.50e-04	0.01568	
## 988	1.93e-03	-0.049290	1.024	1.10e-04	0.01136	
## 989	7.69e-05	-0.102697	1.017	4.79e-04	0.01314	
## 990	3.99e-03	-0.056086	1.016	1.43e-04	0.00716	
## 991	2.43e-03	-0.030075	1.029	4.11e-05	0.01459	
## 992	4.64e-03	-0.104080	1.010	4.92e-04	0.01049	
## 993	4.92e-03	0.035007	1.030	5.57e-05	0.01572	
## 994	2.62e-03	-0.050266	1.025	1.15e-04	0.01230	
## 995	7.99e-03	-0.094062	1.031	4.02e-04	0.02117	
## 996	2.23e-02	-0.202956	1.010	1.87e-03	0.02207	
## 997	-1.36e-02	-0.107141	1.016	5.22e-04	0.01320	
## 998	6.03e-02	0.203192	0.988	1.87e-03	0.01468	
## 999	1.99e-02	-0.099394	1.012	4.49e-04	0.01060	
## 1000	6.34e-04	0.020295	1.034	1.87e-05	0.01823	
## 1001	-1.59e-03	-0.047363	1.029	1.02e-04	0.01520	
## 1002	1.74e-03	-0.067221	1.018	2.05e-04	0.00957	
## 1003	-9.23e-04	-0.082914	1.019	3.13e-04	0.01235	
## 1004	1.55e-03	-0.041793	1.023	7.94e-05	0.00996	
## 1005	-7.53e-03	-0.043945	1.026	8.78e-05	0.01308	
## 1006	-2.24e-02	-0.107770	1.020	5.28e-04	0.01589	

##	1007	-3.36e-03	0.274226	0.991	3.41e-03	0.02341	
##	1008	3.39e-02	0.235355	0.984	2.51e-03	0.01712	
##	1009	2.74e-04	-0.001727	1.036	1.36e-07	0.02002	
##	1010	-1.06e-04	0.004423	1.034	8.90e-07	0.01849	
##	1011	-4.82e-02	0.128707	1.028	7.53e-04	0.02261	
##	1012	3.30e-02	-0.149103	1.005	1.01e-03	0.01367	
##	1013	-1.75e-02	0.183561	0.988	1.53e-03	0.01258	
##	1014	1.06e-03	-0.016986	1.023	1.31e-05	0.00812	
##	1015	1.67e-02	-0.108964	1.027	5.40e-04	0.02015	
##	1016	1.91e-04	-0.046662	1.026	9.90e-05	0.01271	
##	1017	-2.43e-02	0.203866	0.979	1.89e-03	0.01269	
##	1018	-1.07e-02	-0.061914	1.023	1.74e-04	0.01205	
##	1019	-2.43e-02	-0.074833	1.020	2.55e-04	0.01176	
##	1020	2.68e-03	-0.069884	1.017	2.22e-04	0.00935	
##	1021	4.55e-03	-0.020730	1.029	1.95e-05	0.01342	
##	1022	-5.21e-03	0.201418	0.969	1.84e-03	0.01055	
##	1023	2.60e-03	-0.020476	1.035	1.91e-05	0.01970	
##	1024	8.79e-03	-0.050961	1.037	1.18e-04	0.02237	
##	1025	-2.64e-02	0.061629	1.039	1.73e-04	0.02523	
##	1026	2.71e-03	-0.062898	1.022	1.80e-04	0.01163	
##	1027	5.74e-04	0.007962	1.027	2.88e-06	0.01154	
##	1028	6.25e-03	-0.035217	1.022	5.64e-05	0.00896	
##	1029	-3.66e-03	-0.068235	1.019	2.12e-04	0.01032	
##	1030	1.08e-02	0.070018	1.027	2.23e-04	0.01597	
##	1031	-4.33e-03	-0.021679	1.031	2.14e-05	0.01542	
##	1032	-7.60e-02	0.458680	0.887	9.50e-03	0.02013	*
##	1033	-1.85e-02	0.242951	1.003	2.68e-03	0.02382	
##	1034	9.05e-03	0.374762	0.924	6.36e-03	0.01844	*
##	1035	-3.03e-02	-0.137950	1.022	8.65e-04	0.02054	
##	1036	2.19e-03	-0.029361	1.025	3.92e-05	0.01080	
##	1037	3.08e-03	0.225485	0.985	2.31e-03	0.01620	
##	1038	-5.58e-03	-0.089007	1.026	3.60e-04	0.01704	
##	1039	-6.44e-05	-0.014565	1.026	9.65e-06	0.01096	
##	1040	3.27e-03	0.203435	0.928	1.87e-03	0.00645	*
##	1041	7.73e-03	0.034994	1.036	5.57e-05	0.02070	
##	1042	2.64e-03	-0.052825	1.021	1.27e-04	0.00960	
##	1043	-1.47e-03	-0.041787	1.028	7.94e-05	0.01394	
##	1044	3.32e-03	0.022801	1.041	2.36e-05	0.02525	
##	1045	4.56e-04	-0.019481	1.027	1.73e-05	0.01153	
##	1046	7.55e-05	0.003113	1.024	4.41e-07	0.00856	
##	1047	-1.38e-03	-0.073746	1.023	2.47e-04	0.01318	
##	1048	6.55e-04	-0.052907	1.022	1.27e-04	0.01079	
##	1049	-2.53e-02	-0.063106	1.031	1.81e-04	0.01817	
##	1050	-1.06e-03	-0.024108	1.024	2.64e-05	0.00945	
##	1051	-6.63e-03	-0.081342	1.022	3.01e-04	0.01346	
##	1052	9.97e-03	-0.076278	1.021	2.65e-04	0.01250	
##	1053	2.65e-03	-0.018789	1.027	1.61e-05	0.01225	
##	1054	3.17e-03	0.065950	1.033	1.98e-04	0.01998	
##	1055	1.01e-02	0.059847	1.029	1.63e-04	0.01639	
##	1056	-1.12e-02	-0.073179	1.029	2.44e-04	0.01760	

## 1057	-5.59e-03	0.292330	0.937	3.87e-03	0.01363	*
## 1058	-6.97e-02	0.209172	0.997	1.99e-03	0.01799	
## 1059	2.73e-02	0.215709	1.008	2.11e-03	0.02286	
## 1060	2.12e-03	-0.015781	1.021	1.13e-05	0.00612	
## 1061	-1.05e-02	0.110797	1.017	5.58e-04	0.01424	
## 1062	4.20e-03	-0.031650	1.027	4.56e-05	0.01260	
## 1063	-3.41e-03	-0.146266	1.004	9.72e-04	0.01303	
## 1064	3.33e-03	-0.020890	1.027	1.98e-05	0.01160	
## 1065	5.67e-05	-0.001698	1.027	1.31e-07	0.01128	
## 1066	-8.43e-04	-0.056218	1.032	1.44e-04	0.01894	
## 1067	9.94e-03	-0.062330	1.018	1.77e-04	0.00884	
## 1068	1.26e-02	-0.065828	1.015	1.97e-04	0.00779	
## 1069	-1.99e-02	0.190737	0.993	1.65e-03	0.01469	
## 1070	1.09e-02	-0.097787	1.020	4.35e-04	0.01469	
## 1071	-3.69e-04	-0.104183	1.007	4.93e-04	0.00935	
## 1072	1.38e-03	-0.049244	1.029	1.10e-04	0.01555	
## 1073	1.49e-03	-0.050160	1.023	1.14e-04	0.01083	
## 1074	-2.10e-02	-0.094580	1.023	4.07e-04	0.01580	
## 1075	7.95e-03	-0.099837	1.008	4.53e-04	0.00920	
## 1076	8.01e-03	-0.031093	1.030	4.40e-05	0.01504	
## 1077	3.29e-02	0.078731	1.030	2.82e-04	0.01928	
## 1078	2.08e-02	0.269570	0.978	3.30e-03	0.01912	
## 1079	-1.63e-02	-0.031573	1.055	4.53e-05	0.03839	*
## 1080	-3.86e-03	-0.069153	1.020	2.17e-04	0.01120	
## 1081	-1.30e-02	0.022290	1.036	2.26e-05	0.02075	
## 1082	3.31e-02	-0.096869	1.025	4.27e-04	0.01767	
## 1083	1.76e-02	-0.118458	1.016	6.38e-04	0.01457	
## 1084	-1.11e-01	0.289510	0.956	3.80e-03	0.01640	
## 1085	3.30e-03	-0.079115	1.024	2.85e-04	0.01445	
## 1086	7.98e-02	0.293676	0.971	3.91e-03	0.01992	
## 1087	6.94e-02	-0.354184	1.010	5.69e-03	0.03992	
## 1088	2.02e-03	-0.082195	1.024	3.07e-04	0.01515	
## 1089	2.44e-03	-0.044839	1.022	9.14e-05	0.00967	
## 1090	-6.92e-04	-0.008825	1.023	3.54e-06	0.00788	
## 1091	-1.83e-02	-0.076124	1.029	2.64e-04	0.01766	
## 1092	1.31e-02	-0.091545	1.014	3.81e-04	0.01078	
## 1093	-2.71e-04	0.009280	1.029	3.92e-06	0.01315	
## 1094	7.01e-03	-0.143617	1.027	9.38e-04	0.02408	
## 1095	3.15e-02	-0.091516	1.024	3.81e-04	0.01586	
## 1096	2.78e-02	-0.111232	1.021	5.62e-04	0.01685	
## 1097	1.74e-02	-0.095058	1.025	4.11e-04	0.01696	
## 1098	1.60e-02	-0.098940	1.013	4.45e-04	0.01095	
## 1099	-3.43e-04	-0.021730	1.031	2.15e-05	0.01548	
## 1100	-1.04e-03	-0.019874	1.031	1.80e-05	0.01526	
## 1101	9.75e-03	-0.088900	1.022	3.59e-04	0.01440	
## 1102	-7.27e-03	-0.027584	1.021	3.46e-05	0.00745	
## 1103	2.21e-03	-0.097314	1.009	4.30e-04	0.00932	
## 1104	1.16e-03	0.006117	1.027	1.70e-06	0.01159	
## 1105	4.23e-03	-0.023492	1.023	2.51e-05	0.00852	
## 1106	2.38e-03	-0.095112	1.017	4.11e-04	0.01256	

## 1107	3.25e-02	0.274240	0.938	3.41e-03	0.01226	*
## 1108	6.66e-03	-0.032137	1.020	4.70e-05	0.00667	
## 1109	-3.43e-03	-0.082751	1.015	3.11e-04	0.00979	
## 1110	-2.49e-03	-0.049254	1.026	1.10e-04	0.01332	
## 1111	-2.10e-02	0.203558	0.986	1.88e-03	0.01431	
## 1112	-1.72e-01	0.721659	0.883	2.35e-02	0.04153	*
## 1113	3.92e-02	0.226453	0.898	2.32e-03	0.00598	*
## 1114	6.93e-04	-0.002819	1.032	3.62e-07	0.01630	
## 1115	-1.43e-02	-0.070886	1.023	2.28e-04	0.01350	
## 1116	1.45e-02	-0.120507	1.014	6.60e-04	0.01395	
## 1117	-1.02e-03	0.079078	1.063	2.84e-04	0.04713	*
## 1118	2.20e-03	-0.016183	1.023	1.19e-05	0.00804	
## 1119	6.26e-03	-0.046691	1.023	9.91e-05	0.01028	
## 1120	-3.49e-03	-0.021485	1.028	2.10e-05	0.01245	
## 1121	3.88e-03	-0.070937	1.017	2.29e-04	0.00957	
## 1122	7.11e-03	-0.047035	1.018	1.01e-04	0.00722	
## 1123	2.22e-02	-0.155226	1.009	1.09e-03	0.01590	
## 1124	-1.86e-02	-0.111023	0.998	5.60e-04	0.00748	
## 1125	4.60e-03	0.039665	1.028	7.16e-05	0.01406	
## 1126	1.06e-03	-0.032612	1.032	4.84e-05	0.01686	
## 1127	1.65e-03	-0.055297	1.030	1.39e-04	0.01686	
## 1128	2.71e-04	-0.007760	1.024	2.74e-06	0.00877	
## 1129	5.70e-03	-0.145916	1.007	9.67e-04	0.01428	
## 1130	-1.80e-04	-0.003094	1.038	4.35e-07	0.02197	
## 1131	-2.04e-03	-0.026045	1.029	3.09e-05	0.01402	
## 1132	-2.58e-02	-0.083255	1.023	3.15e-04	0.01463	
## 1133	5.89e-03	-0.030943	1.025	4.35e-05	0.01045	
## 1134	-1.63e-04	0.001116	1.033	5.66e-08	0.01722	
## 1135	-1.41e-03	-0.034075	1.022	5.28e-05	0.00840	
## 1136	-2.30e-03	-0.013615	1.066	8.43e-06	0.04787	*
## 1137	-2.66e-02	0.171109	0.979	1.33e-03	0.00958	
## 1138	-7.99e-03	-0.185153	1.005	1.56e-03	0.01789	
## 1139	-1.70e-03	-0.165913	1.033	1.25e-03	0.03049	
## 1140	9.16e-05	-0.002076	1.025	1.96e-07	0.00903	
## 1141	-1.23e-03	-0.016168	1.039	1.19e-05	0.02272	
## 1142	3.11e-02	-0.082402	1.013	3.09e-04	0.00900	
## 1143	2.61e-02	-0.178868	0.999	1.45e-03	0.01530	
## 1144	1.03e-02	-0.095447	1.027	4.14e-04	0.01889	
## 1145	2.07e-03	-0.081170	1.016	3.00e-04	0.01015	
## 1146	1.14e-02	-0.068511	1.010	2.13e-04	0.00635	
## 1147	1.13e-02	-0.029618	1.031	3.99e-05	0.01645	
## 1148	7.62e-03	-0.052300	1.025	1.24e-04	0.01290	
## 1149	-8.34e-03	-0.037597	1.023	6.43e-05	0.00961	
## 1150	-8.82e-03	-0.039852	1.029	7.22e-05	0.01524	
## 1151	-8.69e-04	0.014183	1.035	9.15e-06	0.01918	
## 1152	4.87e-02	-0.175276	1.014	1.40e-03	0.02049	
## 1153	3.58e-04	-0.054745	1.020	1.36e-04	0.00915	
## 1154	-1.24e-02	0.175240	0.997	1.39e-03	0.01418	
## 1155	-4.78e-03	0.024703	1.035	2.78e-05	0.01917	
## 1156	9.03e-04	0.012650	1.028	7.28e-06	0.01276	

##	1157	-5.49e-03	-0.050205	1.032	1.15e-04	0.01788	
##	1158	8.47e-04	0.047797	1.030	1.04e-04	0.01636	
##	1159	2.75e-03	-0.018610	1.020	1.58e-05	0.00534	
##	1160	-4.21e-02	-0.126982	1.016	7.33e-04	0.01573	
##	1161	1.96e-02	0.053077	1.025	1.28e-04	0.01301	
##	1162	6.49e-03	-0.059258	1.025	1.60e-04	0.01343	
##	1163	-2.70e-01	0.379299	0.932	6.51e-03	0.02014	*
##	1164	-1.87e-02	-0.077669	1.024	2.74e-04	0.01465	
##	1165	-4.06e-03	-0.116344	1.011	6.15e-04	0.01232	
##	1166	4.07e-02	-0.117524	1.020	6.28e-04	0.01688	
##	1167	-5.85e-04	-0.011638	1.037	6.16e-06	0.02065	
##	1168	1.12e-02	0.202172	0.988	1.86e-03	0.01466	
##	1169	8.79e-03	-0.197141	0.990	1.76e-03	0.01449	
##	1170	1.08e-03	-0.018159	1.022	1.50e-05	0.00762	
##	1171	6.57e-03	-0.074900	1.019	2.55e-04	0.01118	
##	1172	2.51e-03	0.170065	1.001	1.31e-03	0.01486	
##	1173	-1.09e-02	-0.060543	1.013	1.67e-04	0.00634	
##	1174	1.94e-03	-0.039203	1.023	6.99e-05	0.00992	
##	1175	5.65e-03	0.032497	1.029	4.80e-05	0.01435	
##	1176	7.46e-03	-0.016216	1.024	1.20e-05	0.00870	
##	1177	9.61e-04	-0.038959	1.029	6.90e-05	0.01442	
##	1178	1.02e-02	0.035168	1.034	5.63e-05	0.01897	
##	1179	1.33e-03	-0.063622	1.018	1.84e-04	0.00912	
##	1180	3.33e-03	0.011729	1.025	6.26e-06	0.00941	
##	1181	3.25e-03	-0.092515	1.015	3.89e-04	0.01111	
##	1182	-5.22e-03	-0.014385	1.031	9.41e-06	0.01575	
##	1183	-8.66e-05	0.004766	1.030	1.03e-06	0.01414	
##	1184	1.11e-03	0.030064	1.026	4.11e-05	0.01118	
##	1185	3.73e-03	0.042192	1.038	8.10e-05	0.02314	
##	1186	9.13e-03	0.028720	1.036	3.75e-05	0.02074	
##	1187	8.39e-04	0.294742	0.963	3.94e-03	0.01824	
##	1188	5.52e-03	0.066187	1.029	1.99e-04	0.01740	
##	1189	-7.48e-02	-0.176168	1.014	1.41e-03	0.02088	
##	1190	3.17e-03	0.027729	1.025	3.50e-05	0.01040	
##	1191	4.49e-04	0.004305	1.024	8.43e-07	0.00829	
##	1192	7.49e-03	-0.037047	1.026	6.24e-05	0.01240	
##	1193	2.85e-04	-0.115987	1.018	6.12e-04	0.01536	
##	1194	-5.00e-04	-0.119246	1.015	6.46e-04	0.01432	
##	1195	-4.71e-04	0.043709	1.032	8.69e-05	0.01756	
##	1196	9.80e-05	-0.000194	1.030	1.71e-09	0.01409	
##	1197	-6.36e-03	-0.119861	1.020	6.53e-04	0.01726	
##	1198	2.08e-03	-0.079756	1.013	2.89e-04	0.00876	
##	1199	1.03e-02	-0.057221	1.033	1.49e-04	0.01955	
##	1200	2.29e-03	-0.054435	1.020	1.35e-04	0.00937	
##	1201	-2.70e-03	-0.056056	1.023	1.43e-04	0.01122	
##	1202	-2.23e-02	0.196026	0.980	1.74e-03	0.01218	
##	1203	6.08e-04	-0.008115	1.025	3.00e-06	0.00912	
##	1204	-2.13e-03	0.026701	1.033	3.24e-05	0.01760	
##	1205	4.04e-02	0.311229	0.954	4.39e-03	0.01797	*
##	1206	-3.41e-02	0.241174	0.934	2.63e-03	0.00944	*

##	1207	-6.41e-04	-0.003915	1.031	6.97e-07	0.01530	
##	1208	4.53e-04	-0.088044	1.031	3.53e-04	0.02053	
##	1209	1.19e-02	0.025900	1.030	3.05e-05	0.01474	
##	1210	-1.07e-04	0.021915	1.038	2.18e-05	0.02241	
##	1211	3.28e-03	0.008707	1.033	3.45e-06	0.01693	
##	1212	-2.63e-03	-0.079579	1.033	2.88e-04	0.02127	
##	1213	-3.30e-03	-0.059594	1.024	1.62e-04	0.01300	
##	1214	-4.06e-03	0.270691	0.946	3.32e-03	0.01314	*
##	1215	-1.77e-03	-0.010745	1.033	5.25e-06	0.01686	
##	1216	-2.16e-02	-0.211162	0.997	2.02e-03	0.01814	
##	1217	-5.61e-03	-0.026230	1.028	3.13e-05	0.01284	
##	1218	-5.24e-04	-0.005354	1.024	1.30e-06	0.00850	
##	1219	-1.77e-03	-0.020928	1.027	1.99e-05	0.01165	
##	1220	1.90e-03	-0.010641	1.022	5.15e-06	0.00691	
##	1221	1.60e-03	-0.031131	1.023	4.41e-05	0.00942	
##	1222	1.78e-03	-0.003194	1.053	4.64e-07	0.03557	*
##	1223	-2.02e-02	0.253028	0.960	2.90e-03	0.01367	
##	1224	1.49e-02	0.391746	0.975	6.96e-03	0.03123	*
##	1225	-1.18e-03	-0.065236	1.022	1.94e-04	0.01198	
##	1226	2.37e-02	-0.109647	1.029	5.47e-04	0.02164	
##	1227	8.33e-04	-0.088052	1.014	3.52e-04	0.01009	
##	1228	-6.62e-04	-0.015869	1.022	1.15e-05	0.00695	
##	1229	-1.56e-04	-0.040728	1.028	7.54e-05	0.01405	
##	1230	1.40e-02	-0.123401	1.008	6.92e-04	0.01204	
##	1231	1.23e-02	-0.106060	1.023	5.11e-04	0.01715	
##	1232	-6.27e-03	-0.018557	1.026	1.57e-05	0.01059	
##	1233	4.51e-03	0.019712	1.028	1.77e-05	0.01269	
##	1234	-1.69e-02	-0.044262	1.030	8.91e-05	0.01638	
##	1235	2.62e-03	-0.026860	1.037	3.28e-05	0.02128	
##	1236	5.64e-03	-0.025142	1.027	2.88e-05	0.01236	
##	1237	6.22e-03	0.223430	0.979	2.27e-03	0.01452	
##	1238	-1.08e-02	0.206563	0.979	1.94e-03	0.01285	
##	1239	8.45e-03	-0.112592	1.011	5.76e-04	0.01195	
##	1240	-1.87e-03	-0.092784	1.023	3.91e-04	0.01570	
##	1241	-4.95e-04	-0.002138	1.031	2.08e-07	0.01532	
##	1242	3.98e-03	-0.081969	1.027	3.06e-04	0.01729	
##	1243	1.34e-02	-0.090623	1.029	3.73e-04	0.01933	
##	1244	-4.22e-03	-0.032359	1.032	4.76e-05	0.01724	
##	1245	-1.41e-02	-0.099078	1.024	4.46e-04	0.01691	
##	1246	1.07e-02	-0.080461	1.015	2.94e-04	0.00963	
##	1247	-1.49e-02	0.250894	0.941	2.85e-03	0.01092	*
##	1248	2.64e-03	-0.031799	1.022	4.60e-05	0.00810	
##	1249	-5.15e-03	-0.049268	1.018	1.10e-04	0.00771	
##	1250	4.43e-03	0.165170	0.981	1.24e-03	0.00942	
##	1251	2.70e-03	-0.114763	1.017	5.99e-04	0.01475	
##	1252	-5.68e-03	-0.030525	1.030	4.24e-05	0.01512	
##	1253	8.92e-04	-0.055455	1.027	1.40e-04	0.01412	
##	1254	-7.84e-05	-0.002729	1.030	3.39e-07	0.01454	
##	1255	1.17e-03	0.006867	1.031	2.15e-06	0.01518	
##	1256	-1.60e-02	0.165965	1.007	1.25e-03	0.01650	



##	1257	-1.82e-02	-0.074466	1.018	2.52e-04	0.01066	
##	1258	-3.40e-02	0.259437	0.928	3.05e-03	0.01007	*
##	1259	6.81e-03	-0.060340	1.021	1.66e-04	0.01055	
##	1260	-1.77e-03	-0.004277	1.028	8.32e-07	0.01199	
##	1261	-5.25e-03	-0.031922	1.029	4.63e-05	0.01437	
##	1262	7.38e-03	-0.147337	1.003	9.86e-04	0.01294	
##	1263	-1.17e-02	0.179926	0.986	1.47e-03	0.01172	
##	1264	-2.60e-03	-0.030709	1.024	4.29e-05	0.00991	
##	1265	5.74e-04	-0.013235	1.038	7.97e-06	0.02185	
##	1266	2.30e-03	0.050419	1.031	1.16e-04	0.01765	
##	1267	-1.94e-03	-0.022515	1.025	2.31e-05	0.01055	
##	1268	-4.43e-03	0.021909	1.042	2.18e-05	0.02599	
##	1269	1.76e-04	-0.086886	1.035	3.43e-04	0.02388	
##	1270	-4.56e-03	-0.017064	1.028	1.32e-05	0.01274	
##	1271	-4.14e-03	-0.073185	1.021	2.44e-04	0.01186	
##	1272	-3.14e-02	0.183669	0.969	1.53e-03	0.00913	
##	1273	-1.42e-03	-0.010983	1.025	5.49e-06	0.00942	
##	1274	-2.25e-02	0.178244	0.976	1.44e-03	0.00970	
##	1275	-3.04e-03	-0.075994	1.023	2.63e-04	0.01372	
##	1276	-9.78e-04	-0.012381	1.027	6.97e-06	0.01178	
##	1277	-1.01e-03	-0.049134	1.018	1.10e-04	0.00750	
##	1278	-2.10e-03	-0.020333	1.033	1.88e-05	0.01772	
##	1279	-8.61e-04	-0.065361	1.021	1.94e-04	0.01118	
##	1280	-2.35e-03	0.240357	0.973	2.62e-03	0.01490	
##	1281	-7.14e-03	-0.029225	1.032	3.88e-05	0.01702	
##	1282	2.46e-02	0.219429	0.974	2.18e-03	0.01309	
##	1283	7.16e-04	-0.008820	1.029	3.54e-06	0.01382	
##	1284	-1.11e-05	0.008633	1.025	3.39e-06	0.00925	
##	1285	1.28e-03	-0.036352	1.027	6.01e-05	0.01252	
##	1286	-4.27e-03	-0.115841	1.026	6.10e-04	0.01996	
##	1287	4.29e-03	-0.034769	1.022	5.50e-05	0.00868	
##	1288	4.96e-03	-0.039091	1.023	6.95e-05	0.01022	
##	1289	1.29e-02	0.068548	1.027	2.14e-04	0.01564	
##	1290	1.04e-03	0.020568	1.035	1.92e-05	0.01968	
##	1291	1.08e-01	0.320267	0.934	4.64e-03	0.01543	*
##	1292	7.98e-02	0.303648	0.941	4.18e-03	0.01512	*
##	1293	-1.24e-03	-0.037280	1.026	6.32e-05	0.01236	
##	1294	4.72e-03	-0.084040	1.023	3.21e-04	0.01474	
##	1295	4.94e-03	-0.071058	1.021	2.30e-04	0.01220	
##	1296	4.18e-02	-0.080005	1.037	2.91e-04	0.02430	
##	1297	2.00e-02	-0.056662	1.021	1.46e-04	0.01051	
##	1298	3.57e-02	0.198529	0.965	1.79e-03	0.00970	
##	1299	6.82e-02	0.391480	0.884	6.92e-03	0.01493	*
##	1300	2.33e-04	0.026149	1.021	3.11e-05	0.00698	
##	1301	3.38e-03	0.016444	1.024	1.23e-05	0.00870	
##	1302	2.50e-02	0.074798	1.052	2.54e-04	0.03679	*
##	1303	1.68e-04	-0.087504	1.022	3.48e-04	0.01448	
##	1304	7.59e-03	-0.108570	1.027	5.36e-04	0.01995	
##	1305	-1.36e-02	-0.051755	1.025	1.22e-04	0.01258	
##	1306	1.57e-02	0.035717	1.027	5.80e-05	0.01273	

##	1307	3.78e-03	-0.094500	1.016	4.06e-04	0.01206	
##	1308	1.71e-03	-0.042945	1.025	8.39e-05	0.01187	
##	1309	-9.04e-03	-0.133338	1.018	8.08e-04	0.01759	
##	1310	8.36e-03	-0.041901	1.018	7.98e-05	0.00678	
##	1311	-8.98e-03	-0.118574	1.021	6.39e-04	0.01774	
##	1312	1.53e-02	-0.135517	1.022	8.35e-04	0.02000	
##	1313	-4.10e-02	0.283710	0.923	3.64e-03	0.01133	*
##	1314	-3.12e-02	0.152212	1.001	1.05e-03	0.01275	
##	1315	8.83e-03	0.057396	1.028	1.50e-04	0.01582	
##	1316	7.74e-03	-0.079046	1.020	2.84e-04	0.01210	
##	1317	-6.07e-03	-0.032076	1.032	4.68e-05	0.01743	
##	1318	2.18e-02	-0.135542	1.004	8.35e-04	0.01204	
##	1319	-2.92e-03	-0.009046	1.034	3.72e-06	0.01805	
##	1320	3.53e-03	-0.058227	1.025	1.54e-04	0.01362	
##	1321	1.04e-03	-0.013549	1.031	8.35e-06	0.01542	
##	1322	1.81e-02	-0.072570	1.017	2.39e-04	0.00958	
##	1323	7.67e-03	0.058737	1.024	1.57e-04	0.01225	
##	1324	-2.99e-04	0.008033	1.030	2.94e-06	0.01421	
##	1325	-2.22e-02	-0.074662	1.032	2.54e-04	0.01998	
##	1326	2.23e-03	-0.036121	1.021	5.93e-05	0.00831	
##	1327	1.21e-02	0.177861	0.994	1.44e-03	0.01346	
##	1328	-2.40e-02	0.081663	1.040	3.03e-04	0.02698	
##	1329	-1.09e-02	-0.058434	1.025	1.55e-04	0.01295	
##	1330	5.73e-03	-0.054845	1.019	1.37e-04	0.00858	
##	1331	1.35e-02	0.027873	1.033	3.53e-05	0.01788	
##	1332	-6.00e-04	0.005397	1.031	1.32e-06	0.01537	
##	1333	-1.32e-02	0.167086	1.010	1.27e-03	0.01774	
##	1334	6.53e-02	0.348501	0.866	5.48e-03	0.01071	*
##	1335	2.36e-02	-0.144675	1.015	9.51e-04	0.01752	
##	1336	3.81e-05	0.004979	1.026	1.13e-06	0.01058	
##	1337	2.28e-03	0.017032	1.034	1.32e-05	0.01866	
##	1338	6.67e-03	-0.042204	1.018	8.10e-05	0.00659	
##	1339	-3.41e-02	0.202016	0.947	1.85e-03	0.00792	*
##	1340	-2.33e-02	0.184653	0.985	1.55e-03	0.01202	
##	1341	-8.06e-03	-0.070495	1.016	2.26e-04	0.00896	
##	1342	1.35e-02	-0.030434	1.030	4.21e-05	0.01483	
##	1343	1.72e-02	-0.053794	1.021	1.32e-04	0.01020	
##	1344	6.35e-03	-0.069468	1.016	2.19e-04	0.00879	
##	1345	-4.92e-03	-0.075441	1.022	2.59e-04	0.01285	
##	1346	-1.14e-03	-0.116814	1.008	6.20e-04	0.01114	
##	1347	-7.55e-03	-0.029743	1.027	4.02e-05	0.01278	
##	1348	-3.17e-02	-0.100493	1.028	4.59e-04	0.01992	
##	1349	-6.48e-03	-0.011990	1.044	6.54e-06	0.02758	
##	1350	1.28e-02	-0.141801	0.995	9.13e-04	0.01005	
##	1351	-5.41e-03	-0.038182	1.026	6.63e-05	0.01217	
##	1352	-2.29e-02	0.066464	1.047	2.01e-04	0.03204	*
##	1353	-9.01e-04	-0.029878	1.026	4.06e-05	0.01119	
##	1354	-5.65e-02	0.260442	0.993	3.08e-03	0.02230	
##	1355	-6.72e-02	0.354308	0.952	5.69e-03	0.02151	*
##	1356	-2.09e-03	-0.079953	1.019	2.91e-04	0.01185	

```
## 1357 -2.37e-04 -0.008042 1.023 2.94e-06 0.00761
## 1358 3.34e-04 0.005138 1.027 1.20e-06 0.01147
## 1359 -1.05e-02 -0.053061 1.020 1.28e-04 0.00917
## 1360 7.86e-03 -0.074706 1.016 2.54e-04 0.00956
## 1361 6.24e-04 -0.040953 1.025 7.63e-05 0.01184
## 1362 -2.76e-03 -0.016883 1.030 1.30e-05 0.01415
## 1363 -3.04e-03 -0.062696 1.021 1.79e-04 0.01075
## 1364 -2.32e-02 -0.051634 1.021 1.21e-04 0.00972
## 1365 -2.55e-02 -0.095771 1.019 4.17e-04 0.01378
## 1366 -3.72e-02 0.226128 0.979 2.32e-03 0.01484
## 1367 4.06e-05 -0.085822 1.028 3.35e-04 0.01856
## 1368 9.76e-03 -0.052795 1.020 1.27e-04 0.00904
## 1369 -3.28e-02 -0.115370 1.016 6.05e-04 0.01427
## 1370 3.13e-02 0.243026 0.975 2.68e-03 0.01572
## 1371 8.47e-03 0.050763 1.027 1.17e-04 0.01432
## 1372 8.35e-04 -0.037729 1.032 6.47e-05 0.01770
## 1373 -3.61e-02 -0.094481 1.032 4.06e-04 0.02238
## 1374 3.01e-02 -0.119244 1.037 6.47e-04 0.02847
## 1375 1.61e-04 -0.052991 1.036 1.28e-04 0.02143
## 1376 8.09e-03 0.184128 0.994 1.54e-03 0.01423
## 1377 5.66e-04 0.009845 1.028 4.41e-06 0.01256
## 1378 -1.17e-05 0.011557 1.033 6.08e-06 0.01713
## 1379 4.47e-03 -0.078528 1.019 2.80e-04 0.01131
## 1380 -1.85e-02 0.202405 0.985 1.86e-03 0.01380
## 1381 -4.34e-03 -0.070573 1.019 2.26e-04 0.01039
## 1382 -2.80e-03 -0.056682 1.023 1.46e-04 0.01165
## 1383 -4.64e-03 -0.099211 1.025 4.48e-04 0.01755
## 1384 1.21e-03 -0.007177 1.033 2.34e-06 0.01711
## 1385 4.05e-02 -0.069829 1.032 2.22e-04 0.01962
## 1386 -4.55e-03 0.010338 1.030 4.86e-06 0.01435
## 1387 -4.45e-03 -0.111416 1.017 5.64e-04 0.01429
## 1388 1.35e-02 -0.079133 1.019 2.85e-04 0.01181
## 1389 -9.09e-04 0.016395 1.029 1.22e-05 0.01399
## 1390 -6.34e-03 -0.110935 1.025 5.60e-04 0.01900
## 1391 2.84e-02 0.297481 0.926 4.01e-03 0.01261
## 1392 2.01e-02 -0.173811 1.014 1.37e-03 0.02053
## 1393 -8.62e-03 -0.023568 1.025 2.53e-05 0.01049
## 1394 -5.25e-04 -0.002291 1.025 2.39e-07 0.00944
## 1395 1.88e-03 -0.050489 1.029 1.16e-04 0.01588
## 1396 5.44e-02 0.250073 0.972 2.84e-03 0.01566
## 1397 4.81e-03 0.194425 0.999 1.72e-03 0.01685
## 1398 4.72e-04 -0.046049 1.030 9.64e-05 0.01606
## 1399 2.66e-03 0.010414 1.028 4.93e-06 0.01270
## 1400 3.42e-03 0.014272 1.030 9.26e-06 0.01488
## 1401 1.08e-02 -0.113558 1.014 5.86e-04 0.01338
## 1402 4.37e-03 -0.025458 1.039 2.95e-05 0.02357
## 1403 4.40e-03 -0.119631 1.017 6.51e-04 0.01534
## 1404 -1.80e-03 -0.098049 1.021 4.37e-04 0.01476
## 1405 1.14e-02 -0.047565 1.038 1.03e-04 0.02334
## 1406 7.82e-03 0.042811 1.028 8.34e-05 0.01454
```

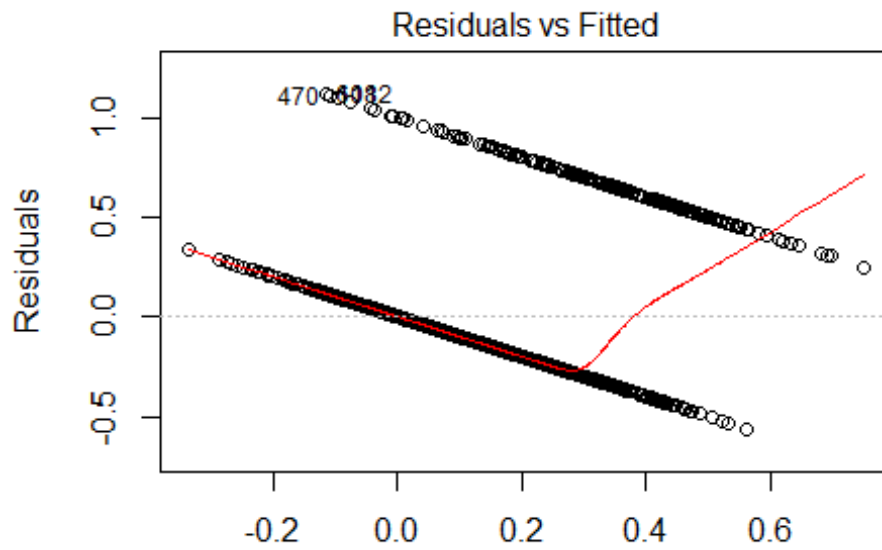
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##	1407	-1.55e-02	-0.146224	1.011	9.72e-04	0.01579	
##	1408	1.21e-02	-0.089622	1.011	3.65e-04	0.00899	
##	1409	-4.96e-03	-0.036213	1.023	5.96e-05	0.00992	
##	1410	8.29e-03	-0.033875	1.029	5.22e-05	0.01469	
##	1411	-1.53e-03	-0.003440	1.023	5.38e-07	0.00782	
##	1412	-2.26e-03	-0.040472	1.020	7.45e-05	0.00749	
##	1413	-8.09e-08	0.000514	1.026	1.20e-08	0.01040	
##	1414	-1.81e-03	-0.074066	1.020	2.49e-04	0.01146	
##	1415	-1.41e-03	-0.065953	1.036	1.98e-04	0.02302	
##	1416	5.32e-03	-0.041928	1.029	8.00e-05	0.01479	
##	1417	-6.14e-03	0.035175	1.026	5.63e-05	0.01217	
##	1418	-3.79e-04	-0.034307	1.020	5.35e-05	0.00697	
##	1419	-3.08e-02	-0.101293	1.016	4.66e-04	0.01290	
##	1420	1.00e-02	-0.105606	1.014	5.07e-04	0.01244	
##	1421	-5.80e-03	0.016221	1.027	1.20e-05	0.01131	
##	1422	2.39e-02	0.061321	1.037	1.71e-04	0.02330	
##	1423	-3.70e-03	-0.074657	1.016	2.53e-04	0.00952	
##	1424	1.30e-03	-0.042932	1.022	8.38e-05	0.00916	
##	1425	-5.21e-03	-0.021274	1.024	2.06e-05	0.00887	
##	1426	6.04e-02	-0.130213	1.013	7.71e-04	0.01492	
##	1427	3.82e-02	-0.152986	1.000	1.06e-03	0.01251	
##	1428	4.95e-03	-0.035756	1.023	5.81e-05	0.00941	
##	1429	-7.05e-04	-0.058018	1.014	1.53e-04	0.00663	
##	1430	-9.74e-03	-0.062687	1.028	1.79e-04	0.01590	
##	1431	1.69e-04	0.003505	1.042	5.59e-07	0.02587	
##	1432	-3.64e-03	0.026225	1.022	3.13e-05	0.00787	
##	1433	1.51e-03	-0.027682	1.037	3.49e-05	0.02164	
##	1434	-8.18e-03	-0.112087	1.018	5.71e-04	0.01483	
##	1435	9.22e-03	-0.022758	1.049	2.36e-05	0.03199	*
##	1436	7.07e-03	-0.106489	1.011	5.15e-04	0.01098	
##	1437	2.22e-03	-0.155316	0.986	1.10e-03	0.00945	
##	1438	8.34e-04	0.015848	1.042	1.14e-05	0.02596	
##	1439	-3.80e-02	0.251152	0.965	2.86e-03	0.01435	
##	1440	3.93e-03	-0.023436	1.028	2.50e-05	0.01287	
##	1441	2.00e-03	-0.025038	1.030	2.85e-05	0.01474	
##	1442	6.44e-03	0.124259	1.031	7.02e-04	0.02408	
##	1443	1.58e-02	0.265350	0.960	3.19e-03	0.01490	
##	1444	8.28e-03	0.020522	1.036	1.92e-05	0.02068	
##	1445	4.64e-02	0.447592	0.903	9.06e-03	0.02136	*
##	1446	-4.13e-03	-0.046238	1.035	9.72e-05	0.02069	
##	1447	-3.02e-03	-0.013920	1.028	8.81e-06	0.01287	
##	1448	3.04e-04	0.002357	1.046	2.53e-07	0.02974	*
##	1449	-1.47e-03	-0.010925	1.025	5.43e-06	0.00951	
##	1450	6.72e-03	-0.058474	1.015	1.55e-04	0.00718	
##	1451	-4.58e-02	-0.140260	1.019	8.94e-04	0.01892	
##	1452	1.18e-03	0.003323	1.027	5.02e-07	0.01143	
##	1453	-7.71e-02	0.326853	0.909	4.83e-03	0.01290	*
##	1454	1.62e-02	-0.042100	1.022	8.06e-05	0.00960	
##	1455	1.12e-02	-0.041664	1.023	7.89e-05	0.00984	
##	1456	-1.91e-03	-0.054952	1.017	1.37e-04	0.00758	

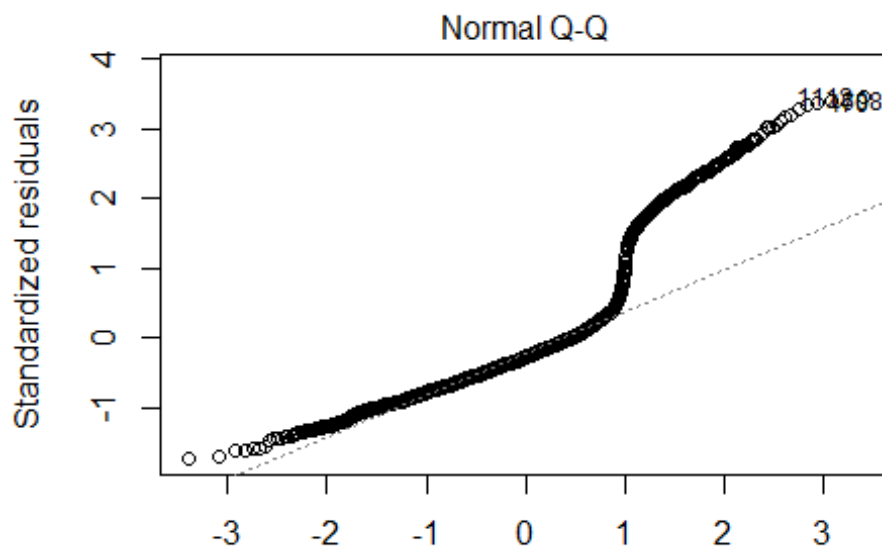
```
## 1457  2.65e-02 -0.121197 1.014 6.68e-04 0.01413
## 1458 -7.28e-04  0.005334 1.030 1.29e-06 0.01415
## 1459  8.03e-03 -0.052226 1.023 1.24e-04 0.01107
## 1460 -3.17e-03 -0.098817 1.013 4.44e-04 0.01100
## 1461 -5.97e-03 -0.160407 1.010 1.17e-03 0.01713
## 1462 -4.21e-02  0.265461 0.975 3.20e-03 0.01798
## 1463  2.15e-02 -0.060362 1.029 1.66e-04 0.01629
## 1464 -1.32e-02 -0.066928 1.031 2.04e-04 0.01879
## 1465  2.14e-02 -0.069947 1.018 2.22e-04 0.00977
## 1466  9.02e-04 -0.020905 1.035 1.99e-05 0.01920
## 1467 -2.04e-03 -0.007648 1.027 2.66e-06 0.01113
## 1468  3.50e-03 -0.094826 1.018 4.09e-04 0.01293
## 1469 -4.52e-03 -0.015602 1.029 1.11e-05 0.01336
## 1470  7.64e-05 -0.000586 1.025 1.56e-08 0.00930
```

*#diagnostic plots*

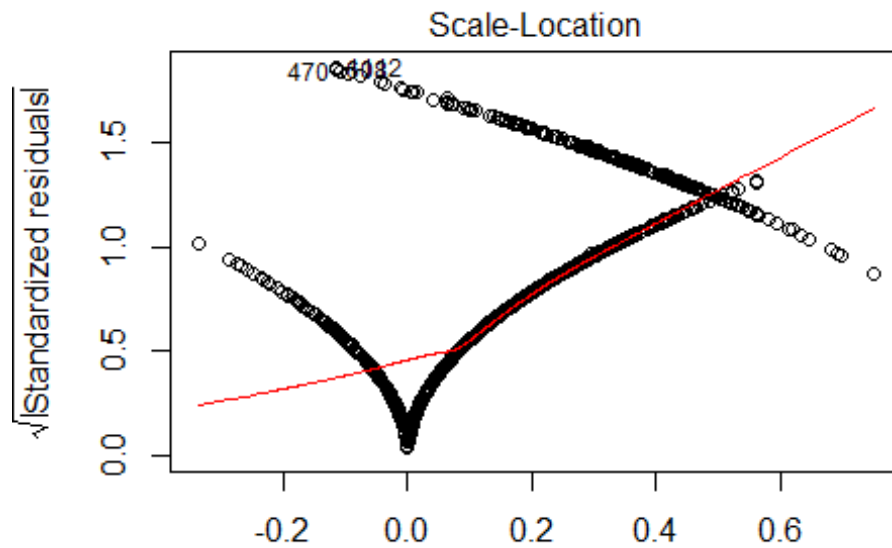
`plot(x)`



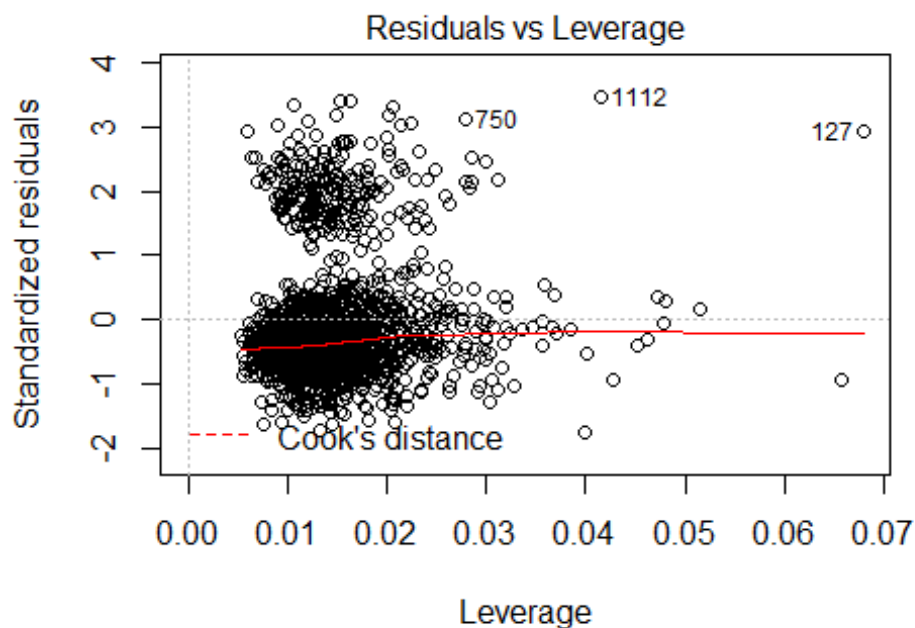
Attrition ~ i.Age + BusinessTravel + DailyRate + DistanceFromHome



Attrition ~ i.Age + BusinessTravel + DailyRate + DistanceFromHome



Attrition ~ i.Age + BusinessTravel + DailyRate + DistanceFromHome



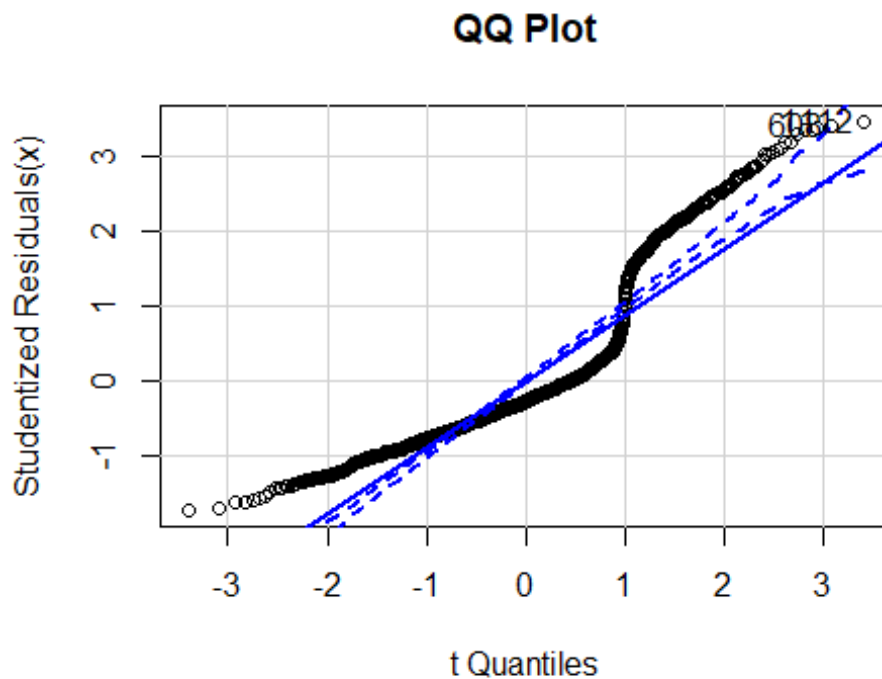
Attrition ~ i.Age + BusinessTravel + DailyRate + DistanceFromHome

```
# Assessing Outliers
outlierTest(x)
```

```
## No Studentized residuals with Bonferroni  $p < 0.05$ 
## Largest |rstudent|:
##      rstudent unadjusted p-value Bonferroni p
## 1112 3.466883      0.00054195      0.79666

qqPlot(x, main="QQ Plot")

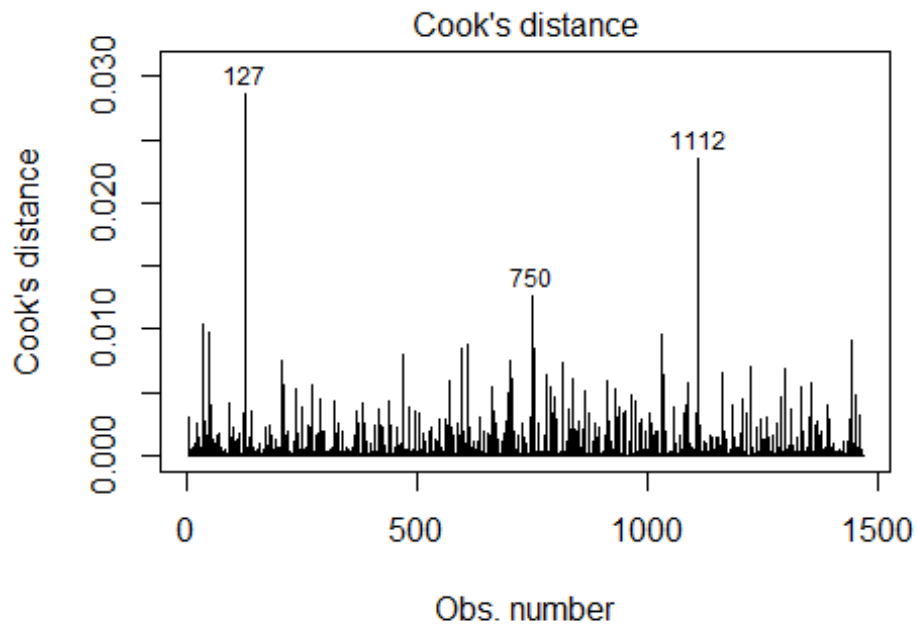
## Warning in rlm.default(x, y, weights, method = method, wt.method =
## wt.method, :
## 'rlm' failed to converge in 20 steps
```



```
## [1] 608 1112

# Cook's D plot
# identify D values > 4/(n-k-1)
cutoff <- 4/((nrow(emp_churn)-length(x$coefficients)-2))
plot(x, which=4, cook.levels=cutoff)
```





Attrition ~ 1.Age + BusinessTravel + DailyRate + DistanceFromHome

```
# Influence Plot
```

```
influencePlot(x, id.method="identify", main="Influence Plot", sub="Circle  
size is proportional to Cook's Distance" )
```

```
## Warning in plot.window(...): "id.method" is not a graphical parameter
```

```
## Warning in plot.xy(xy, type, ...): "id.method" is not a graphical  
parameter
```

```
## Warning in axis(side = side, at = at, labels = labels, ...): "id.method"  
is not  
## a graphical parameter
```

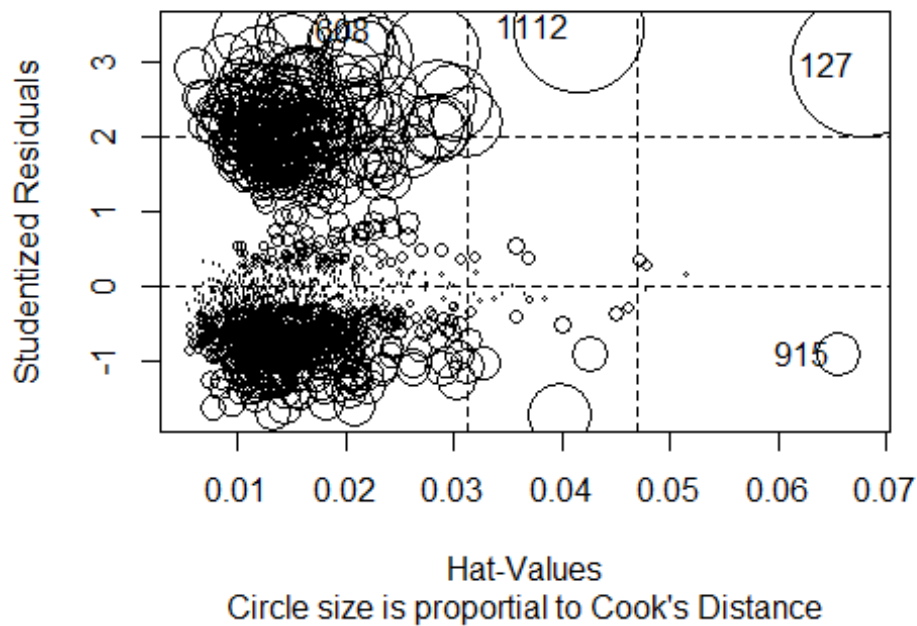
```
## Warning in axis(side = side, at = at, labels = labels, ...): "id.method"  
is not  
## a graphical parameter
```

```
## Warning in box(...): "id.method" is not a graphical parameter
```

```
## Warning in title(...): "id.method" is not a graphical parameter
```

```
## Warning in plot.xy(xy.coords(x, y), type = type, ...): "id.method" is not  
a  
## graphical parameter
```

## Influence Plot



```
##      StudRes      Hat      CookD
## 127  2.9438840 0.06790998 0.028549672
## 608  3.4219376 0.01638551 0.008801489
## 915 -0.9268187 0.06569735 0.002745803
## 1112 3.4668834 0.04153019 0.023493555
```

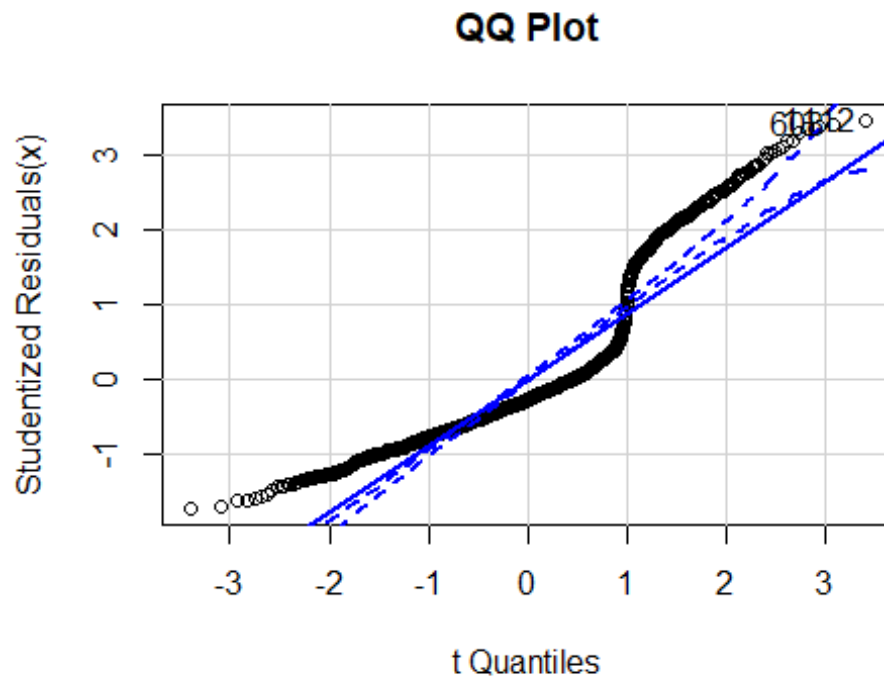
*# Normality of Residuals*

*# qq plot for studentized resid*

```
qqPlot(x, main="QQ Plot")
```

```
## Warning in rlm.default(x, y, weights, method = method, wt.method =
wt.method, :
```

```
## 'rlm' failed to converge in 20 steps
```



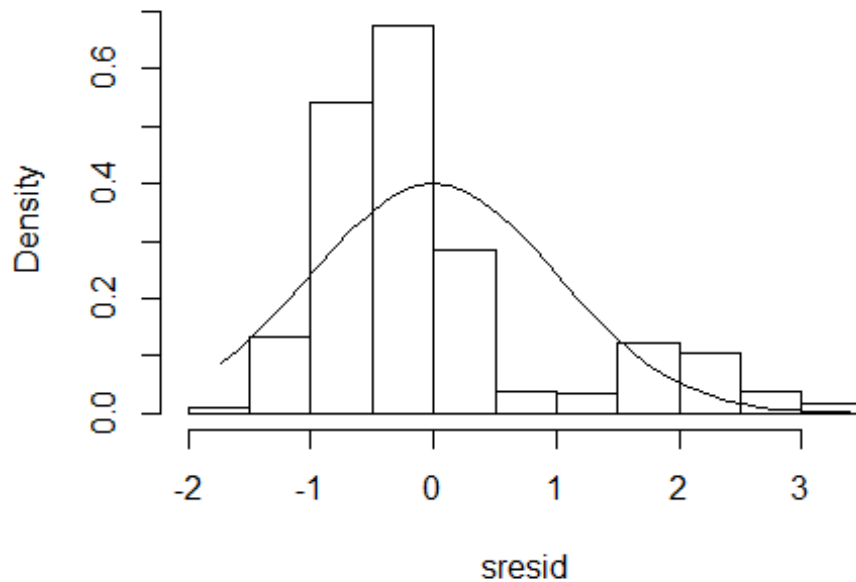
```
## [1] 608 1112
# distribution of studentized residuals
library(MASS)

##
## Attaching package: 'MASS'

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

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

## Distribution of Studentized Residuals

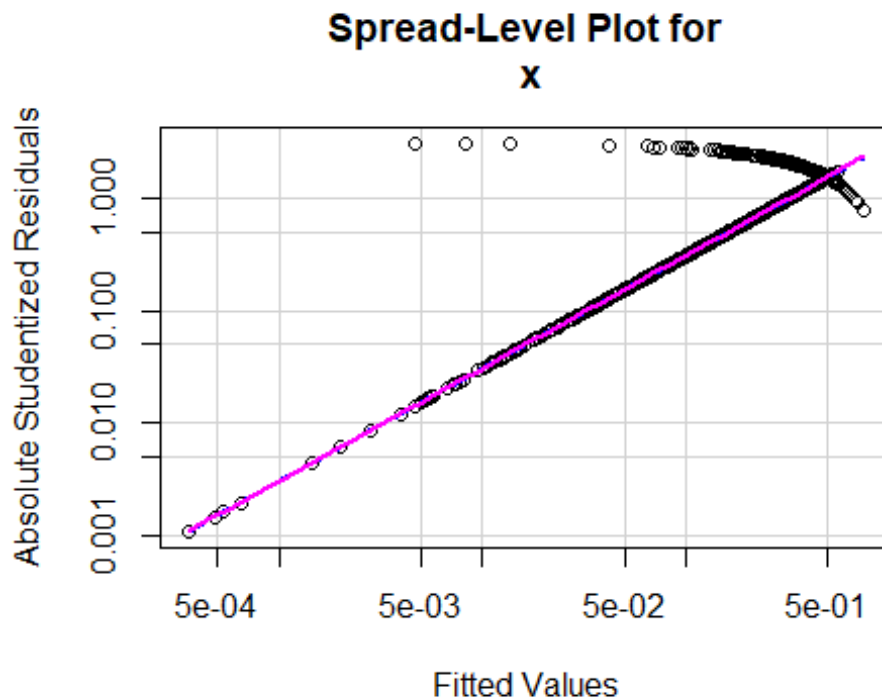


```
#Non-constant Error Variance
# Evaluate homoscedasticity
# non-constant error variance test
ncvTest(x)

## Non-constant Variance Score Test
## Variance formula: ~ fitted.values
## Chisquare = 263.4021, Df = 1, p = < 2.22e-16

# plot studentized residuals vs. fitted values
spreadLevelPlot(x)

## Warning in spreadLevelPlot.lm(x):
## 245 negative fitted values removed
```



```
##
## Suggested power transformation: -0.0006310025

#Non-independence of Errors
# Test for Autocorrelated Errors
durbinWatsonTest(x)

## lag Autocorrelation D-W Statistic p-value
## 1 0.03902977 1.91893 0.128
## Alternative hypothesis: rho != 0

summary(x)

##
## Call:
## lm(formula = Attrition ~ i..Age + BusinessTravel + DailyRate +
## DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +
## HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +
## MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +
## StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
## YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
## data = emp_churn)
##
## Residuals:
## Min 1Q Median 3Q Max
## -0.56216 -0.20840 -0.09171 0.05753 1.11567
##
```

```
## Coefficients: (1 not defined because of singularities)
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)      8.341e-01  9.065e-02   9.201  < 2e-16 ***
## i..Age           -3.162e-03  1.326e-03  -2.384  0.01726 *
## BusinessTravelTravel_Frequently  1.514e-01  3.360e-02   4.505  7.18e-06 ***
## BusinessTravelTravel_Rarely      6.512e-02  2.904e-02   2.243  0.02507 *
## DailyRate        -2.791e-05  2.154e-05  -1.295  0.19538
## DistanceFromHome   3.460e-03  1.068e-03   3.239  0.00123 **
## EnvironmentSatisfaction -4.029e-02  7.927e-03  -5.083  4.20e-07 ***
## MaritalStatus1     -1.102e-01  2.014e-02  -5.474  5.17e-08 ***
## MaritalStatus2     -1.349e-01  2.399e-02  -5.622  2.26e-08 ***
## HourlyRate        -2.170e-04  4.271e-04  -0.508  0.61150
## JobInvolvement     -6.229e-02  1.220e-02  -5.107  3.71e-07 ***
## JobLevel          -2.387e-02  2.604e-02  -0.917  0.35937
## JobSatisfaction    -4.033e-02  7.858e-03  -5.132  3.25e-07 ***
## MonthlyIncome     -3.525e-07  6.016e-06  -0.059  0.95329
## OverTime1         2.024e-01  1.924e-02  10.522  < 2e-16 ***
## PercentSalaryHike  -1.674e-03  2.365e-03  -0.708  0.47918
## StandardHours      NA          NA          NA          NA
## TotalWorkingYears  -1.479e-03  2.358e-03  -0.627  0.53049
## WorkLifeBalance    -2.903e-02  1.227e-02  -2.365  0.01815 *
## YearsAtCompany     2.603e-03  2.931e-03   0.888  0.37455
## YearsInCurrentRole -9.064e-03  3.914e-03  -2.316  0.02070 *
## YearsSinceLastPromotion  1.187e-02  3.455e-03   3.435  0.00061 ***
## YearsWithCurrManager -1.092e-02  4.019e-03  -2.718  0.00666 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.33 on 1448 degrees of freedom
## Multiple R-squared:  0.207, Adjusted R-squared:  0.1955
## F-statistic:    18 on 21 and 1448 DF,  p-value: < 2.2e-16

x1 <- x
x2 <-
lm(Attrition~i..Age+BusinessTravel+DailyRate+DistanceFromHome+EnvironmentSatisfaction+MaritalStatus+HourlyRate+JobInvolvement+JobLevel+JobSatisfaction+MaritalStatus+MonthlyIncome+OverTime+PercentSalaryHike+StandardHours+TotalWorkingYears+WorkLifeBalance+YearsAtCompany+YearsInCurrentRole+YearsSinceLastPromotion+YearsWithCurrManager, data=emp_churn)
# compare models
anova(x1, x2)

## Analysis of Variance Table
##
## Model 1: Attrition ~ i..Age + BusinessTravel + DailyRate +
DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + HourlyRate + JobInvolvement
+
##      JobLevel + JobSatisfaction + MaritalStatus + MonthlyIncome +
##      OverTime + PercentSalaryHike + StandardHours + TotalWorkingYears +
```

```

##      WorkLifeBalance + YearsAtCompany + YearsInCurrentRole +
YearsSinceLastPromotion +
##      YearsWithCurrManager
## Model 2: Attrition ~ i..Age + BusinessTravel + DailyRate +
DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + HourlyRate + JobInvolvement
+
##      JobLevel + JobSatisfaction + MaritalStatus + MonthlyIncome +
##      OverTime + PercentSalaryHike + StandardHours + TotalWorkingYears +
##      WorkLifeBalance + YearsAtCompany + YearsInCurrentRole +
YearsSinceLastPromotion +
##      YearsWithCurrManager
## Res.Df    RSS Df Sum of Sq F Pr(>F)
## 1    1448 157.64
## 2    1448 157.64  0          0

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

## Start:  AIC=-3238.05
## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + HourlyRate + JobInvolvement
+
##      JobLevel + JobSatisfaction + MaritalStatus + MonthlyIncome +
##      OverTime + PercentSalaryHike + StandardHours + TotalWorkingYears +
##      WorkLifeBalance + YearsAtCompany + YearsInCurrentRole +
YearsSinceLastPromotion +
##      YearsWithCurrManager
##
##
## Step:  AIC=-3238.05
## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + HourlyRate + JobInvolvement
+
##      JobLevel + JobSatisfaction + MonthlyIncome + OverTime +
PercentSalaryHike +
##      TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
YearsInCurrentRole +
##      YearsSinceLastPromotion + YearsWithCurrManager
##
##
##           Df Sum of Sq    RSS    AIC
## - MonthlyIncome      1    0.0004 157.64 -3240.0
## - HourlyRate          1    0.0281 157.67 -3239.8
## - TotalWorkingYears   1    0.0429 157.69 -3239.7
## - PercentSalaryHike   1    0.0545 157.70 -3239.5
## - YearsAtCompany      1    0.0859 157.73 -3239.3
## - JobLevel            1    0.0915 157.73 -3239.2
## - DailyRate           1    0.1827 157.82 -3238.3
## <none>                  157.64 -3238.1
## - YearsInCurrentRole  1    0.5840 158.23 -3234.6
## - WorkLifeBalance     1    0.6091 158.25 -3234.4

```

```

## - i..Age          1      0.6187 158.26 -3234.3
## - YearsWithCurrManager 1      0.8040 158.45 -3232.6
## - DistanceFromHome 1      1.1421 158.78 -3229.4
## - YearsSinceLastPromotion 1      1.2843 158.93 -3228.1
## - BusinessTravel 2      2.5438 160.19 -3218.5
## - EnvironmentSatisfaction 1      2.8130 160.46 -3214.1
## - JobInvolvement 1      2.8392 160.48 -3213.8
## - JobSatisfaction 1      2.8675 160.51 -3213.6
## - MaritalStatus 2      4.4752 162.12 -3200.9
## - OverTime 1      12.0529 169.69 -3131.7
##
## Step: AIC=-3240.05
## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + HourlyRate + JobInvolvement
+
##      JobLevel + JobSatisfaction + OverTime + PercentSalaryHike +
##      TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
YearsInCurrentRole +
##      YearsSinceLastPromotion + YearsWithCurrManager
##
##              Df Sum of Sq    RSS    AIC
## - HourlyRate      1      0.0283 157.67 -3241.8
## - TotalWorkingYears 1      0.0452 157.69 -3241.6
## - PercentSalaryHike 1      0.0548 157.70 -3241.5
## - YearsAtCompany 1      0.0857 157.73 -3241.3
## - DailyRate      1      0.1829 157.83 -3240.3
## <none>              157.64 -3240.0
## + MonthlyIncome 1      0.0004 157.64 -3238.1
## - JobLevel      1      0.4352 158.08 -3238.0
## - YearsInCurrentRole 1      0.5836 158.23 -3236.6
## - WorkLifeBalance 1      0.6089 158.25 -3236.4
## - i..Age      1      0.6189 158.26 -3236.3
## - YearsWithCurrManager 1      0.8061 158.45 -3234.6
## - DistanceFromHome 1      1.1514 158.79 -3231.4
## - YearsSinceLastPromotion 1      1.2843 158.93 -3230.1
## - BusinessTravel 2      2.5460 160.19 -3220.5
## - EnvironmentSatisfaction 1      2.8130 160.46 -3216.0
## - JobInvolvement 1      2.8389 160.48 -3215.8
## - JobSatisfaction 1      2.8671 160.51 -3215.6
## - MaritalStatus 2      4.4781 162.12 -3202.9
## - OverTime      1      12.0536 169.70 -3133.7
##
## Step: AIC=-3241.78
## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + JobInvolvement +
##      JobLevel + JobSatisfaction + OverTime + PercentSalaryHike +
##      TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
YearsInCurrentRole +
##      YearsSinceLastPromotion + YearsWithCurrManager
##

```



##		Df	Sum of Sq	RSS	AIC
## - TotalWorkingYears	1	0.0460	157.72	-3243.4	
## - PercentSalaryHike	1	0.0538	157.72	-3243.3	
## - YearsAtCompany	1	0.0846	157.76	-3243.0	
## - DailyRate	1	0.1863	157.86	-3242.0	
## <none>			157.67	-3241.8	
## + HourlyRate	1	0.0283	157.64	-3240.0	
## - JobLevel	1	0.4274	158.10	-3239.8	
## + MonthlyIncome	1	0.0006	157.67	-3239.8	
## - YearsInCurrentRole	1	0.5808	158.25	-3238.4	
## - WorkLifeBalance	1	0.6094	158.28	-3238.1	
## - i..Age	1	0.6268	158.30	-3238.0	
## - YearsWithCurrManager	1	0.8037	158.47	-3236.3	
## - DistanceFromHome	1	1.1413	158.81	-3233.2	
## - YearsSinceLastPromotion	1	1.2907	158.96	-3231.8	
## - BusinessTravel	2	2.5501	160.22	-3222.2	
## - EnvironmentSatisfaction	1	2.7920	160.46	-3218.0	
## - JobSatisfaction	1	2.8413	160.51	-3217.5	
## - JobInvolvement	1	2.8633	160.53	-3217.3	
## - MaritalStatus	2	4.4971	162.17	-3204.4	
## - OverTime	1	12.0607	169.73	-3135.4	

##

## Step: AIC=-3243.36

## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +  
 ## EnvironmentSatisfaction + MaritalStatus + JobInvolvement +  
 ## JobLevel + JobSatisfaction + OverTime + PercentSalaryHike +  
 ## WorkLifeBalance + YearsAtCompany + YearsInCurrentRole +  
 YearsSinceLastPromotion +  
 ## YearsWithCurrManager

##

##		Df	Sum of Sq	RSS	AIC
## - PercentSalaryHike	1	0.0547	157.77	-3244.8	
## - YearsAtCompany	1	0.0585	157.78	-3244.8	
## - DailyRate	1	0.1946	157.91	-3243.5	
## <none>			157.72	-3243.4	
## + TotalWorkingYears	1	0.0460	157.67	-3241.8	
## + HourlyRate	1	0.0291	157.69	-3241.6	
## + MonthlyIncome	1	0.0033	157.71	-3241.4	
## - YearsInCurrentRole	1	0.5794	158.30	-3240.0	
## - WorkLifeBalance	1	0.6024	158.32	-3239.8	
## - YearsWithCurrManager	1	0.8119	158.53	-3237.8	
## - JobLevel	1	0.9221	158.64	-3236.8	
## - DistanceFromHome	1	1.1406	158.86	-3234.8	
## - i..Age	1	1.1866	158.90	-3234.3	
## - YearsSinceLastPromotion	1	1.2938	159.01	-3233.3	
## - BusinessTravel	2	2.5320	160.25	-3223.9	
## - EnvironmentSatisfaction	1	2.7810	160.50	-3219.7	
## - JobSatisfaction	1	2.8190	160.54	-3219.3	
## - JobInvolvement	1	2.8526	160.57	-3219.0	
## - MaritalStatus	2	4.4757	162.19	-3206.2	

```

## - OverTime          1    12.0455 169.76 -3137.2
##
## Step:  AIC=-3244.85
## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + JobInvolvement +
##      JobLevel + JobSatisfaction + OverTime + WorkLifeBalance +
##      YearsAtCompany + YearsInCurrentRole + YearsSinceLastPromotion +
##      YearsWithCurrManager
##
##
##              Df Sum of Sq    RSS    AIC
## - YearsAtCompany      1      0.0633 157.84 -3246.3
## - DailyRate            1      0.1990 157.97 -3245.0
## <none>                  157.77 -3244.8
## + PercentSalaryHike    1      0.0547 157.72 -3243.4
## + TotalWorkingYears    1      0.0468 157.72 -3243.3
## + HourlyRate           1      0.0281 157.74 -3243.1
## + MonthlyIncome        1      0.0039 157.77 -3242.9
## - YearsInCurrentRole   1      0.5919 158.36 -3241.3
## - WorkLifeBalance      1      0.6021 158.37 -3241.2
## - YearsWithCurrManager 1      0.8179 158.59 -3239.2
## - JobLevel             1      0.9108 158.68 -3238.4
## - DistanceFromHome     1      1.1231 158.90 -3236.4
## - i..Age               1      1.2024 158.97 -3235.7
## - YearsSinceLastPromotion 1      1.2976 159.07 -3234.8
## - BusinessTravel       2      2.5492 160.32 -3225.3
## - EnvironmentSatisfaction 1      2.7590 160.53 -3221.4
## - JobSatisfaction       1      2.8345 160.61 -3220.7
## - JobInvolvement       1      2.8372 160.61 -3220.6
## - MaritalStatus        2      4.4707 162.24 -3207.8
## - OverTime             1     12.0495 169.82 -3138.7
##
## Step:  AIC=-3246.26
## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +
##      EnvironmentSatisfaction + MaritalStatus + JobInvolvement +
##      JobLevel + JobSatisfaction + OverTime + WorkLifeBalance +
##      YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager
##
##
##              Df Sum of Sq    RSS    AIC
## - DailyRate            1      0.2091 158.04 -3246.3
## <none>                  157.84 -3246.3
## + YearsAtCompany       1      0.0633 157.77 -3244.8
## + PercentSalaryHike    1      0.0595 157.78 -3244.8
## + HourlyRate           1      0.0269 157.81 -3244.5
## + TotalWorkingYears    1      0.0197 157.81 -3244.4
## + MonthlyIncome        1      0.0020 157.83 -3244.3
## - YearsInCurrentRole   1      0.5304 158.37 -3243.3
## - WorkLifeBalance      1      0.6129 158.45 -3242.6
## - YearsWithCurrManager 1      0.7876 158.62 -3240.9
## - JobLevel             1      0.8484 158.68 -3240.4
## - DistanceFromHome     1      1.1179 158.95 -3237.9

```

```
## - i..Age 1 1.1753 159.01 -3237.4
## - YearsSinceLastPromotion 1 1.5859 159.42 -3233.6
## - BusinessTravel 2 2.5637 160.40 -3226.6
## - EnvironmentSatisfaction 1 2.7699 160.60 -3222.7
## - JobSatisfaction 1 2.8179 160.65 -3222.2
## - JobInvolvement 1 2.8918 160.73 -3221.6
## - MaritalStatus 2 4.4694 162.30 -3209.2
## - OverTime 1 12.1073 169.94 -3139.6
```

```
##
```

```
## Step: AIC=-3246.31
```

```
## Attrition ~ i..Age + BusinessTravel + DistanceFromHome +
EnvironmentSatisfaction +
```

```
## MaritalStatus + JobInvolvement + JobLevel + JobSatisfaction +
```

```
## OverTime + WorkLifeBalance + YearsInCurrentRole +
```

```
YearsSinceLastPromotion +
```

```
## YearsWithCurrManager
```

```
##
```

	Df	Sum of Sq	RSS	AIC
## <none>			158.04	-3246.3
## + DailyRate	1	0.2091	157.84	-3246.3
## + YearsAtCompany	1	0.0734	157.97	-3245.0
## + PercentSalaryHike	1	0.0645	157.98	-3244.9
## + HourlyRate	1	0.0303	158.01	-3244.6
## + TotalWorkingYears	1	0.0237	158.02	-3244.5
## + MonthlyIncome	1	0.0027	158.04	-3244.3
## - YearsInCurrentRole	1	0.5623	158.61	-3243.1
## - WorkLifeBalance	1	0.5860	158.63	-3242.9
## - YearsWithCurrManager	1	0.7565	158.80	-3241.3
## - JobLevel	1	0.8547	158.90	-3240.4
## - DistanceFromHome	1	1.1261	159.17	-3237.9
## - i..Age	1	1.1773	159.22	-3237.4
## - YearsSinceLastPromotion	1	1.6321	159.68	-3233.2
## - BusinessTravel	2	2.5843	160.63	-3226.5
## - EnvironmentSatisfaction	1	2.8001	160.84	-3222.5
## - JobSatisfaction	1	2.8672	160.91	-3221.9
## - JobInvolvement	1	2.9659	161.01	-3221.0
## - MaritalStatus	2	4.6344	162.68	-3207.8
## - OverTime	1	12.0907	170.13	-3139.9

```
step$anova # display results
```

```
## Stepwise Model Path
```

```
## Analysis of Deviance Table
```

```
##
```

```
## Initial Model:
```

```
## Attrition ~ i..Age + BusinessTravel + DailyRate + DistanceFromHome +
```

```
## EnvironmentSatisfaction + MaritalStatus + HourlyRate + JobInvolvement
```

```
+
```

```
## JobLevel + JobSatisfaction + MaritalStatus + MonthlyIncome +
```

```
## OverTime + PercentSalaryHike + StandardHours + TotalWorkingYears +
```

```

##      WorkLifeBalance + YearsAtCompany + YearsInCurrentRole +
YearsSinceLastPromotion +
##      YearsWithCurrManager
##
## Final Model:
## Attrition ~ i..Age + BusinessTravel + DistanceFromHome +
EnvironmentSatisfaction +
##      MaritalStatus + JobInvolvement + JobLevel + JobSatisfaction +
##      OverTime + WorkLifeBalance + YearsInCurrentRole +
YearsSinceLastPromotion +
##      YearsWithCurrManager
##
##
##
##              Step Df      Deviance Resid. Df Resid. Dev      AIC
## 1
## 2      - StandardHours  0 0.0000000000      1448    157.6424 -3238.052
## 3      - MonthlyIncome  1 0.0003737197      1449    157.6428 -3240.049
## 4      - HourlyRate     1 0.0283097887      1450    157.6711 -3241.785
## 5 - TotalWorkingYears  1 0.0459611747      1451    157.7170 -3243.356
## 6 - PercentSalaryHike  1 0.0546769330      1452    157.7717 -3244.847
## 7      - YearsAtCompany 1 0.0632856468      1453    157.8350 -3246.257
## 8      - DailyRate     1 0.2090976293      1454    158.0441 -3246.311

#install.packages("leaps",
lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/Library")
library(leaps)

## Warning: package 'leaps' was built under R version 3.6.3

leaps<-
regsubsets(Attrition~i..Age+BusinessTravel+DailyRate+DistanceFromHome+Environ
mentSatisfaction+MaritalStatus+HourlyRate+JobInvolvement+JobLevel+JobSatisfac
tion+MaritalStatus+MonthlyIncome+OverTime+PercentSalaryHike+StandardHours+Tot
alWorkingYears+WorkLifeBalance+YearsAtCompany+YearsInCurrentRole+YearsSincelA
stPromotion+YearsWithCurrManager, data=emp_churn,nbest=10)

## Warning in leaps.setup(x, y, wt = wt, nbest = nbest, nvmax = nvmax,
force.in =
## force.in, : 1 linear dependencies found

## Reordering variables and trying again:

# view results
summary(leaps)

## Subset selection object
## Call: regsubsets.formula(Attrition ~ i..Age + BusinessTravel + DailyRate +
##      DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +
##      HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +
##      MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +
##      StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +

```

```

##      YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
##      data = emp_churn, nbest = 10)
## 22 Variables (and intercept)
##                                     Forced in Forced out
## i..Age                           FALSE      FALSE
## BusinessTravelTravel_Frequently  FALSE      FALSE
## BusinessTravelTravel_Rarely      FALSE      FALSE
## DailyRate                        FALSE      FALSE
## DistanceFromHome                 FALSE      FALSE
## EnvironmentSatisfaction          FALSE      FALSE
## MaritalStatus1                   FALSE      FALSE
## MaritalStatus2                   FALSE      FALSE
## HourlyRate                       FALSE      FALSE
## JobInvolvement                   FALSE      FALSE
## JobLevel                         FALSE      FALSE
## JobSatisfaction                  FALSE      FALSE
## MonthlyIncome                   FALSE      FALSE
## OverTime1                       FALSE      FALSE
## PercentSalaryHike                FALSE      FALSE
## TotalWorkingYears               FALSE      FALSE
## WorkLifeBalance                 FALSE      FALSE
## YearsAtCompany                   FALSE      FALSE
## YearsInCurrentRole               FALSE      FALSE
## YearsSinceLastPromotion          FALSE      FALSE
## YearsWithCurrManager             FALSE      FALSE
## StandardHours                   FALSE      FALSE
## 10 subsets of each size up to 9
## Selection Algorithm: exhaustive
##      i..Age BusinessTravelTravel_Frequently
BusinessTravelTravel_Rarely
## 1 ( 1 ) " " " "
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```

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## 4	( 10 )	"*"	" "
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## 8	( 8 )	" "	" "	" "
## 8	( 9 )	" "	" "	" "
## 8	( 10 )	" "	" "	" "
## 9	( 1 )	"*"	"*"	" "
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## 9	( 7 )	" "	"*"	" "
## 9	( 8 )	" "	"*"	" "
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## 9	( 10 )	" "	"*"	" "
##		DailyRate	DistanceFromHome	EnvironmentSatisfaction
MaritalStatus1				
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##		MaritalStatus2	HourlyRate	JobInvolvement	JobLevel
JobSatisfaction					
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## 7 ( 1 )	"*	" "	"*	" "	"*
## 7 ( 2 )	"*	" "	"*	"*	"*
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## 7 ( 4 )	"*	" "	"*	" "	"*
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## 7 ( 9 )	" "	" "	"*	" "	"*
## 7 ( 10 )	"*	" "	"*	"*	"*
## 8 ( 1 )	"*	" "	"*	" "	"*
## 8 ( 2 )	"*	" "	"*	"*	"*
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## 9 ( 1 )	"*	" "	"*	" "	"*
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## 9	( 9 )	"*"	" "	"*"	" "	"*"
## 9	( 10 )	"*"	" "	"*"	" "	"*"
##		MonthlyIncome	OverTime1	PercentSalaryHike	StandardHours	
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## 1	( 2 )	" "	" "	" "	" "	
## 1	( 3 )	" "	" "	" "	" "	
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## 1	( 10 )	" "	" "	" "	" "	
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## 2	( 2 )	" "	"*"	" "	" "	
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## 9	( 1 )	" "	"*"	" "	" "
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## 9	( 7 )	" "	"*"	" "	" "
## 9	( 8 )	"*"	"*"	" "	" "
## 9	( 9 )	" "	"*"	" "	" "
## 9	( 10 )	"*"	"*"	" "	" "
##	TotalWorkingYears WorkLifeBalance YearsAtCompany				
YearsInCurrentRole					
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## 1	( 2 )	"*"	" "	" "	" "
## 1	( 3 )	" "	" "	" "	" "

## 1	( 4 )	" "	" "	" "	"*"
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## 1	( 6 )	" "	" "	" "	" "
## 1	( 7 )	" "	" "	" "	" "
## 1	( 8 )	" "	" "	"*"	" "
## 1	( 9 )	" "	" "	" "	" "
## 1	( 10 )	" "	" "	" "	" "
## 2	( 1 )	"*"	" "	" "	" "
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## 2	( 3 )	" "	" "	" "	" "
## 2	( 4 )	" "	" "	" "	" "
## 2	( 5 )	" "	" "	" "	"*"
## 2	( 6 )	" "	" "	" "	" "
## 2	( 7 )	" "	" "	"*"	" "
## 2	( 8 )	" "	" "	" "	" "
## 2	( 9 )	" "	" "	" "	" "
## 2	( 10 )	" "	" "	" "	" "
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## 3	( 2 )	" "	" "	" "	" "
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## 3	( 5 )	" "	" "	" "	" "
## 3	( 6 )	"*"	" "	" "	" "
## 3	( 7 )	" "	" "	" "	" "
## 3	( 8 )	" "	" "	" "	"*"
## 3	( 9 )	" "	" "	" "	" "
## 3	( 10 )	"*"	" "	" "	" "
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## 4	( 7 )	"*"	" "	" "	" "
## 4	( 8 )	" "	" "	" "	" "
## 4	( 9 )	"*"	" "	" "	" "
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## 5	( 3 )	"*"	" "	" "	" "
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## 6	( 3 )	"*"	" "	" "	" "

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## 6	( 8 )	" "	" "	" "	"*"
## 6	( 9 )	" "	" "	" "	" "
## 6	( 10 )	" "	" "	" "	" "
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## 7	( 4 )	"*"	" "	" "	" "
## 7	( 5 )	"*"	" "	" "	" "
## 7	( 6 )	"*"	" "	" "	" "
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## 7	( 8 )	" "	" "	" "	" "
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## 8	( 9 )	"*"	" "	" "	"*"
## 8	( 10 )	" "	" "	" "	"*"
## 9	( 1 )	" "	" "	" "	" "
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## 9	( 5 )	" "	" "	" "	" "
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## 9	( 9 )	"*"	"*"	" "	" "
## 9	( 10 )	" "	" "	" "	"*"
##		YearsSinceLastPromotion	YearsWithCurrManager		
## 1	( 1 )	" "	" "		
## 1	( 2 )	" "	" "		
## 1	( 3 )	" "	" "		
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```

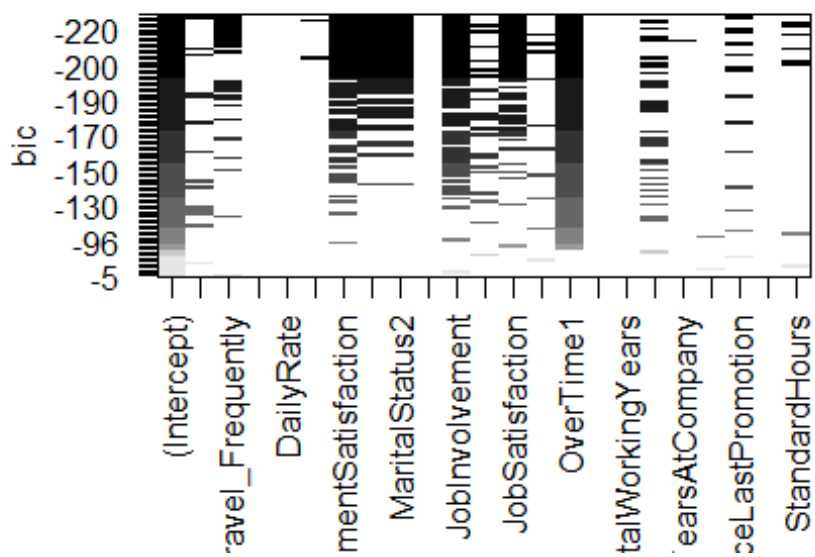
```
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```

*# plot a table of models showing variables in each model.*

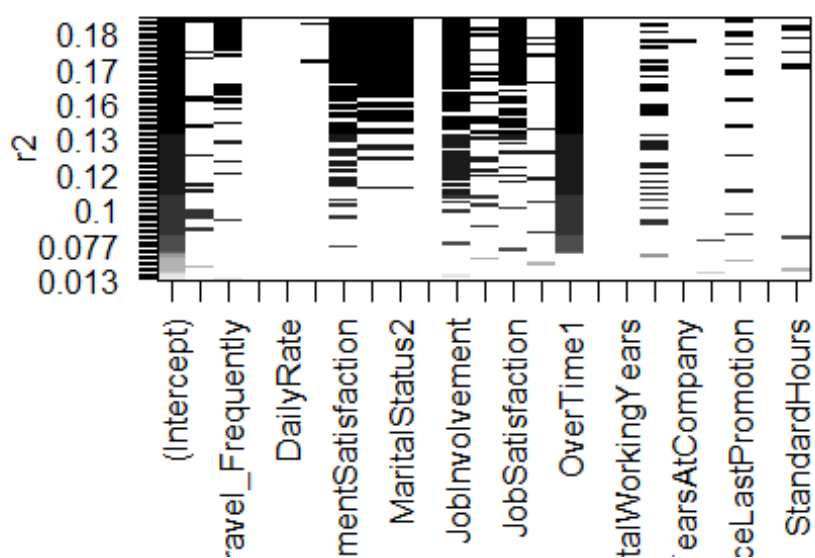
*# models are ordered by the selection statistic.*

**plot**(leaps)

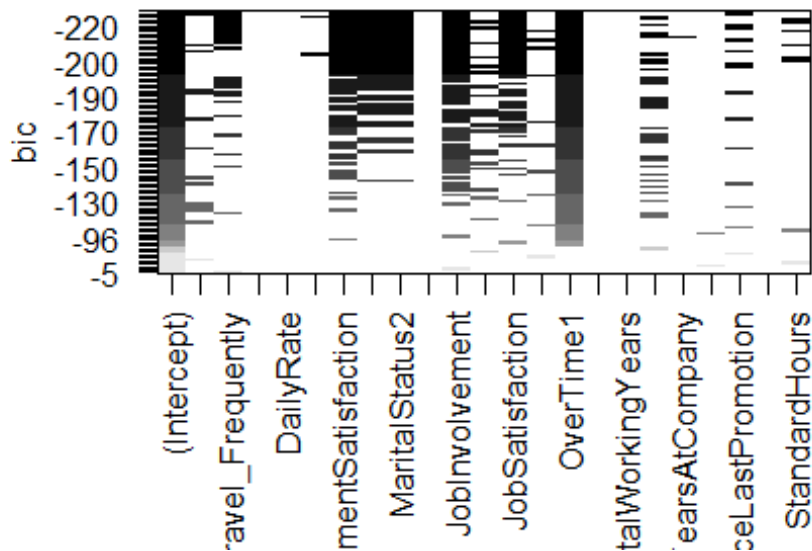




```
plot(leaps, scale="r2")
```



```
# ALL Subsets Regression
plot(leaps,scale="bic")
```



```
summary(leaps)

## Subset selection object
## Call: regsubsets.formula(Attrition ~ i..Age + BusinessTravel + DailyRate +
##   DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +
##   HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +
##   MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +
##   StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
##   YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
##   data = emp_churn, nbest = 10)
## 22 Variables (and intercept)
##
##                                     Forced in Forced out
## i..Age                             FALSE      FALSE
## BusinessTravelTravel_Frequently    FALSE      FALSE
## BusinessTravelTravel_Rarely        FALSE      FALSE
## DailyRate                          FALSE      FALSE
## DistanceFromHome                   FALSE      FALSE
## EnvironmentSatisfaction             FALSE      FALSE
## MaritalStatus1                     FALSE      FALSE
## MaritalStatus2                     FALSE      FALSE
## HourlyRate                         FALSE      FALSE
## JobInvolvement                     FALSE      FALSE
## JobLevel                           FALSE      FALSE
## JobSatisfaction                     FALSE      FALSE
```

```

## MonthlyIncome                FALSE      FALSE
## OverTime1                    FALSE      FALSE
## PercentSalaryHike            FALSE      FALSE
## TotalWorkingYears            FALSE      FALSE
## WorkLifeBalance              FALSE      FALSE
## YearsAtCompany               FALSE      FALSE
## YearsInCurrentRole           FALSE      FALSE
## YearsSinceLastPromotion      FALSE      FALSE
## YearsWithCurrManager         FALSE      FALSE
## StandardHours                FALSE      FALSE
## 10 subsets of each size up to 9
## Selection Algorithm: exhaustive
##      i..Age BusinessTravelTravel_Frequently
BusinessTravelTravel_Rarely
## 1 ( 1 ) " " " "
## 1 ( 2 ) " " " "
## 1 ( 3 ) " " " "
## 1 ( 4 ) " " " "
## 1 ( 5 ) " " " "
## 1 ( 6 ) "*" " "
## 1 ( 7 ) " " " "
## 1 ( 8 ) " " " "
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## 2 ( 1 ) " " " "
## 2 ( 2 ) " " " "
## 2 ( 3 ) "*" " "
## 2 ( 4 ) " " " "
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## 3 ( 9 ) "*" " "
## 3 ( 10 ) " " "*"
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## 4 ( 4 ) " " "*"
## 4 ( 5 ) " " " "
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```

## 4	( 7 )	" "	" "
## 4	( 8 )	"*"	" "
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## 4	( 10 )	"*"	" "
## 5	( 1 )	" "	" "
## 5	( 2 )	" "	" "
## 5	( 3 )	" "	"*"
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## 5	( 6 )	" "	" "
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## 5	( 10 )	" "	"*"
## 6	( 1 )	" "	" "
## 6	( 2 )	" "	"*"
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## 6	( 4 )	" "	" "
## 6	( 5 )	" "	" "
## 6	( 6 )	" "	" "
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## 6	( 10 )	" "	" "
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## 7	( 8 )	"*"	" "
## 7	( 9 )	"*"	"*"
## 7	( 10 )	" "	"*"
## 8	( 1 )	" "	"*"
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## 8	( 9 )	" "	" "
## 8	( 10 )	" "	" "
## 9	( 1 )	"*"	"*"
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## 9	( 8 )	" "	"*"	" "
## 9	( 9 )	" "	"*"	" "
## 9	( 10 )	" "	"*"	" "
##		DailyRate	DistanceFromHome	EnvironmentSatisfaction
MaritalStatus1				
## 1	( 1 )	" "	" "	" "
## 1	( 2 )	" "	" "	" "
## 1	( 3 )	" "	" "	" "
## 1	( 4 )	" "	" "	" "
## 1	( 5 )	" "	" "	" "
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## 1	( 10 )	" "	" "	" "
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## 2	( 2 )	" "	" "	" "
## 2	( 3 )	" "	" "	" "
## 2	( 4 )	" "	" "	" "
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## 9	( 9 )	" "	" "	"*"	"*"
## 9	( 10 )	" "	" "	"*"	"*"
##		MaritalStatus2	HourlyRate	JobInvolvement	JobLevel
JobSatisfaction					
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## 1	( 2 )	" "	" "	" "	" "

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## 6	( 2 )	" "	" "	" "	" "	" "

## 6 ( 3 )	"*"	" "	"*"	" "	"*"
## 6 ( 4 )	"*"	" "	" "	" "	"*"
## 6 ( 5 )	"*"	" "	"*"	"*"	" "
## 6 ( 6 )	"*"	" "	"*"	"*"	"*"
## 6 ( 7 )	" "	" "	"*"	"*"	"*"
## 6 ( 8 )	" "	" "	"*"	" "	"*"
## 6 ( 9 )	"*"	" "	"*"	" "	" "
## 6 ( 10 )	"*"	" "	" "	"*"	"*"
## 7 ( 1 )	"*"	" "	"*"	" "	"*"
## 7 ( 2 )	"*"	" "	"*"	"*"	"*"
## 7 ( 3 )	"*"	" "	"*"	" "	"*"
## 7 ( 4 )	"*"	" "	"*"	" "	"*"
## 7 ( 5 )	"*"	" "	"*"	" "	" "
## 7 ( 6 )	"*"	" "	" "	" "	"*"
## 7 ( 7 )	"*"	" "	"*"	"*"	" "
## 7 ( 8 )	"*"	" "	"*"	" "	"*"
## 7 ( 9 )	" "	" "	"*"	" "	"*"
## 7 ( 10 )	"*"	" "	"*"	"*"	"*"
## 8 ( 1 )	"*"	" "	"*"	" "	"*"
## 8 ( 2 )	"*"	" "	"*"	"*"	"*"
## 8 ( 3 )	"*"	" "	"*"	" "	"*"
## 8 ( 4 )	"*"	" "	"*"	" "	"*"
## 8 ( 5 )	"*"	" "	"*"	" "	"*"
## 8 ( 6 )	"*"	" "	"*"	" "	"*"
## 8 ( 7 )	"*"	" "	"*"	"*"	"*"
## 8 ( 8 )	"*"	" "	"*"	" "	"*"
## 8 ( 9 )	"*"	" "	"*"	" "	"*"
## 8 ( 10 )	"*"	" "	"*"	"*"	"*"
## 9 ( 1 )	"*"	" "	"*"	" "	"*"
## 9 ( 2 )	"*"	" "	"*"	" "	"*"
## 9 ( 3 )	"*"	" "	"*"	" "	"*"
## 9 ( 4 )	"*"	" "	"*"	" "	"*"
## 9 ( 5 )	"*"	" "	"*"	"*"	"*"
## 9 ( 6 )	"*"	" "	"*"	" "	"*"
## 9 ( 7 )	"*"	" "	"*"	"*"	"*"
## 9 ( 8 )	"*"	" "	"*"	" "	"*"
## 9 ( 9 )	"*"	" "	"*"	" "	"*"
## 9 ( 10 )	"*"	" "	"*"	" "	"*"
##	MonthlyIncome	OverTime1	PercentSalaryHike	StandardHours	
## 1 ( 1 )	" "	"*"	" "	" "	
## 1 ( 2 )	" "	" "	" "	" "	
## 1 ( 3 )	" "	" "	" "	" "	
## 1 ( 4 )	" "	" "	" "	" "	
## 1 ( 5 )	"*"	" "	" "	" "	
## 1 ( 6 )	" "	" "	" "	" "	
## 1 ( 7 )	" "	" "	" "	" "	
## 1 ( 8 )	" "	" "	" "	" "	
## 1 ( 9 )	" "	" "	" "	" "	
## 1 ( 10 )	" "	" "	" "	" "	
## 2 ( 1 )	" "	"*"	" "	" "	



## 2	( 2 )	" "	"*"	" "	" "
## 2	( 3 )	" "	"*"	" "	" "
## 2	( 4 )	"*"	"*"	" "	" "
## 2	( 5 )	" "	"*"	" "	" "
## 2	( 6 )	" "	"*"	" "	" "
## 2	( 7 )	" "	"*"	" "	" "
## 2	( 8 )	" "	"*"	" "	" "
## 2	( 9 )	" "	"*"	" "	" "
## 2	( 10 )	" "	"*"	" "	" "
## 3	( 1 )	" "	"*"	" "	" "
## 3	( 2 )	" "	"*"	" "	" "
## 3	( 3 )	" "	"*"	" "	" "
## 3	( 4 )	"*"	"*"	" "	" "
## 3	( 5 )	" "	"*"	" "	" "
## 3	( 6 )	" "	"*"	" "	" "
## 3	( 7 )	" "	"*"	" "	" "
## 3	( 8 )	" "	"*"	" "	" "
## 3	( 9 )	" "	"*"	" "	" "
## 3	( 10 )	" "	"*"	" "	" "
## 4	( 1 )	" "	"*"	" "	" "
## 4	( 2 )	" "	"*"	" "	" "
## 4	( 3 )	" "	"*"	" "	" "
## 4	( 4 )	" "	"*"	" "	" "
## 4	( 5 )	" "	"*"	" "	" "
## 4	( 6 )	"*"	"*"	" "	" "
## 4	( 7 )	" "	"*"	" "	" "
## 4	( 8 )	" "	"*"	" "	" "
## 4	( 9 )	" "	"*"	" "	" "
## 4	( 10 )	" "	"*"	" "	" "
## 5	( 1 )	" "	"*"	" "	" "
## 5	( 2 )	" "	"*"	" "	" "
## 5	( 3 )	" "	"*"	" "	" "
## 5	( 4 )	" "	"*"	" "	" "
## 5	( 5 )	" "	"*"	" "	" "
## 5	( 6 )	" "	"*"	" "	" "
## 5	( 7 )	"*"	"*"	" "	" "
## 5	( 8 )	" "	"*"	" "	" "
## 5	( 9 )	" "	"*"	" "	" "
## 5	( 10 )	" "	"*"	" "	" "
## 6	( 1 )	" "	"*"	" "	" "
## 6	( 2 )	" "	"*"	" "	" "
## 6	( 3 )	" "	"*"	" "	" "
## 6	( 4 )	" "	"*"	" "	" "
## 6	( 5 )	" "	"*"	" "	" "
## 6	( 6 )	" "	"*"	" "	" "
## 6	( 7 )	" "	"*"	" "	" "
## 6	( 8 )	" "	"*"	" "	" "
## 6	( 9 )	"*"	"*"	" "	" "
## 6	( 10 )	" "	"*"	" "	" "
## 7	( 1 )	" "	"*"	" "	" "

## 7 ( 2 )	" "	"*"	" "	" "
## 7 ( 3 )	"*"	"*"	" "	" "
## 7 ( 4 )	" "	"*"	" "	" "
## 7 ( 5 )	" "	"*"	" "	" "
## 7 ( 6 )	" "	"*"	" "	" "
## 7 ( 7 )	" "	"*"	" "	" "
## 7 ( 8 )	" "	"*"	" "	" "
## 7 ( 9 )	" "	"*"	" "	" "
## 7 ( 10 )	" "	"*"	" "	" "
## 8 ( 1 )	" "	"*"	" "	" "
## 8 ( 2 )	" "	"*"	" "	" "
## 8 ( 3 )	" "	"*"	" "	" "
## 8 ( 4 )	"*"	"*"	" "	" "
## 8 ( 5 )	" "	"*"	" "	" "
## 8 ( 6 )	" "	"*"	" "	" "
## 8 ( 7 )	" "	"*"	" "	" "
## 8 ( 8 )	" "	"*"	" "	" "
## 8 ( 9 )	" "	"*"	" "	" "
## 8 ( 10 )	" "	"*"	" "	" "
## 9 ( 1 )	" "	"*"	" "	" "
## 9 ( 2 )	" "	"*"	" "	" "
## 9 ( 3 )	" "	"*"	" "	" "
## 9 ( 4 )	" "	"*"	" "	" "
## 9 ( 5 )	" "	"*"	" "	" "
## 9 ( 6 )	" "	"*"	" "	" "
## 9 ( 7 )	" "	"*"	" "	" "
## 9 ( 8 )	"*"	"*"	" "	" "
## 9 ( 9 )	" "	"*"	" "	" "
## 9 ( 10 )	"*"	"*"	" "	" "
##	TotalWorkingYears	WorkLifeBalance	YearsAtCompany	
YearsInCurrentRole				
## 1 ( 1 )	" "	" "	" "	" "
## 1 ( 2 )	"*"	" "	" "	" "
## 1 ( 3 )	" "	" "	" "	" "
## 1 ( 4 )	" "	" "	" "	"*"
## 1 ( 5 )	" "	" "	" "	" "
## 1 ( 6 )	" "	" "	" "	" "
## 1 ( 7 )	" "	" "	" "	" "
## 1 ( 8 )	" "	" "	"*"	" "
## 1 ( 9 )	" "	" "	" "	" "
## 1 ( 10 )	" "	" "	" "	" "
## 2 ( 1 )	"*"	" "	" "	" "
## 2 ( 2 )	" "	" "	" "	" "
## 2 ( 3 )	" "	" "	" "	" "
## 2 ( 4 )	" "	" "	" "	" "
## 2 ( 5 )	" "	" "	" "	"*"
## 2 ( 6 )	" "	" "	" "	" "
## 2 ( 7 )	" "	" "	"*"	" "
## 2 ( 8 )	" "	" "	" "	" "
## 2 ( 9 )	" "	" "	" "	" "

## 2	( 10 )	" "	" "	" "	" "
## 3	( 1 )	"*"	" "	" "	" "
## 3	( 2 )	" "	" "	" "	" "
## 3	( 3 )	"*"	" "	" "	" "
## 3	( 4 )	" "	" "	" "	" "
## 3	( 5 )	" "	" "	" "	" "
## 3	( 6 )	"*"	" "	" "	" "
## 3	( 7 )	" "	" "	" "	" "
## 3	( 8 )	" "	" "	" "	"*"
## 3	( 9 )	" "	" "	" "	" "
## 3	( 10 )	"*"	" "	" "	" "
## 4	( 1 )	"*"	" "	" "	" "
## 4	( 2 )	"*"	" "	" "	" "
## 4	( 3 )	" "	" "	" "	" "
## 4	( 4 )	"*"	" "	" "	" "
## 4	( 5 )	" "	" "	" "	" "
## 4	( 6 )	" "	" "	" "	" "
## 4	( 7 )	"*"	" "	" "	" "
## 4	( 8 )	" "	" "	" "	" "
## 4	( 9 )	"*"	" "	" "	" "
## 4	( 10 )	" "	" "	" "	"*"
## 5	( 1 )	"*"	" "	" "	" "
## 5	( 2 )	" "	" "	" "	" "
## 5	( 3 )	"*"	" "	" "	" "
## 5	( 4 )	"*"	" "	" "	" "
## 5	( 5 )	"*"	" "	" "	" "
## 5	( 6 )	"*"	" "	" "	" "
## 5	( 7 )	" "	" "	" "	" "
## 5	( 8 )	" "	" "	" "	"*"
## 5	( 9 )	" "	" "	" "	" "
## 5	( 10 )	" "	" "	" "	" "
## 6	( 1 )	"*"	" "	" "	" "
## 6	( 2 )	"*"	" "	" "	" "
## 6	( 3 )	"*"	" "	" "	" "
## 6	( 4 )	"*"	" "	" "	" "
## 6	( 5 )	" "	" "	" "	" "
## 6	( 6 )	" "	" "	" "	" "
## 6	( 7 )	" "	" "	" "	" "
## 6	( 8 )	" "	" "	" "	"*"
## 6	( 9 )	" "	" "	" "	" "
## 6	( 10 )	" "	" "	" "	" "
## 7	( 1 )	"*"	" "	" "	" "
## 7	( 2 )	" "	" "	" "	" "
## 7	( 3 )	" "	" "	" "	" "
## 7	( 4 )	"*"	" "	" "	" "
## 7	( 5 )	"*"	" "	" "	" "
## 7	( 6 )	"*"	" "	" "	" "
## 7	( 7 )	" "	" "	" "	" "
## 7	( 8 )	" "	" "	" "	" "
## 7	( 9 )	" "	" "	" "	"*"

## 7	( 10 )	" "	" "	" "	" "
## 8	( 1 )	"*"	" "	" "	" "
## 8	( 2 )	" "	" "	" "	" "
## 8	( 3 )	" "	" "	" "	" "
## 8	( 4 )	" "	" "	" "	" "
## 8	( 5 )	" "	" "	" "	"*"
## 8	( 6 )	"*"	" "	" "	" "
## 8	( 7 )	" "	" "	" "	" "
## 8	( 8 )	"*"	" "	" "	" "
## 8	( 9 )	"*"	" "	" "	"*"
## 8	( 10 )	" "	" "	" "	"*"
## 9	( 1 )	" "	" "	" "	" "
## 9	( 2 )	" "	" "	" "	"*"
## 9	( 3 )	"*"	" "	" "	" "
## 9	( 4 )	"*"	" "	" "	" "
## 9	( 5 )	" "	" "	" "	" "
## 9	( 6 )	"*"	" "	" "	"*"
## 9	( 7 )	" "	" "	" "	"*"
## 9	( 8 )	" "	" "	" "	" "
## 9	( 9 )	"*"	"*"	" "	" "
## 9	( 10 )	" "	" "	" "	"*"

##		YearsSinceLastPromotion	YearsWithCurrManager
----	--	-------------------------	----------------------

## 1	( 1 )	" "	" "
## 1	( 2 )	" "	" "
## 1	( 3 )	" "	" "
## 1	( 4 )	" "	" "
## 1	( 5 )	" "	" "
## 1	( 6 )	" "	" "
## 1	( 7 )	" "	"*"
## 1	( 8 )	" "	" "
## 1	( 9 )	" "	" "
## 1	( 10 )	" "	" "
## 2	( 1 )	" "	" "
## 2	( 2 )	" "	" "
## 2	( 3 )	" "	" "
## 2	( 4 )	" "	" "
## 2	( 5 )	" "	" "
## 2	( 6 )	" "	"*"
## 2	( 7 )	" "	" "
## 2	( 8 )	" "	" "
## 2	( 9 )	" "	" "
## 2	( 10 )	" "	" "
## 3	( 1 )	" "	" "
## 3	( 2 )	" "	" "
## 3	( 3 )	" "	" "
## 3	( 4 )	" "	" "
## 3	( 5 )	" "	" "
## 3	( 6 )	" "	" "
## 3	( 7 )	" "	" "
## 3	( 8 )	" "	" "

## 3	( 9 )	" "	" "
## 3	( 10 )	" "	" "
## 4	( 1 )	" "	" "
## 4	( 2 )	" "	" "
## 4	( 3 )	" "	" "
## 4	( 4 )	" "	" "
## 4	( 5 )	" "	" "
## 4	( 6 )	" "	" "
## 4	( 7 )	" "	" "
## 4	( 8 )	" "	" "
## 4	( 9 )	" "	" "
## 4	( 10 )	" "	" "
## 5	( 1 )	" "	" "
## 5	( 2 )	" "	" "
## 5	( 3 )	" "	" "
## 5	( 4 )	" "	" "
## 5	( 5 )	" "	" "
## 5	( 6 )	" "	" "
## 5	( 7 )	" "	" "
## 5	( 8 )	" "	" "
## 5	( 9 )	" "	" "
## 5	( 10 )	" "	" "
## 6	( 1 )	" "	" "
## 6	( 2 )	" "	" "
## 6	( 3 )	" "	" "
## 6	( 4 )	" "	" "
## 6	( 5 )	" "	" "
## 6	( 6 )	" "	" "
## 6	( 7 )	" "	" "
## 6	( 8 )	" "	" "
## 6	( 9 )	" "	" "
## 6	( 10 )	" "	" "
## 7	( 1 )	" "	" "
## 7	( 2 )	" "	" "
## 7	( 3 )	" "	" "
## 7	( 4 )	" "	" "
## 7	( 5 )	" "	" "
## 7	( 6 )	" "	" "
## 7	( 7 )	" "	" "
## 7	( 8 )	" "	" "
## 7	( 9 )	" "	" "
## 7	( 10 )	" "	" "
## 8	( 1 )	" "	" "
## 8	( 2 )	" "	" "
## 8	( 3 )	" "	"*
## 8	( 4 )	" "	" "
## 8	( 5 )	" "	" "
## 8	( 6 )	" "	" "
## 8	( 7 )	" "	"*
## 8	( 8 )	" "	"*

```
## 8 ( 9 ) " " " "
## 8 ( 10 ) " " " "
## 9 ( 1 ) " " "*"
## 9 ( 2 ) " " " "
## 9 ( 3 ) " " " "
## 9 ( 4 ) " " "*"
## 9 ( 5 ) " " "*"
## 9 ( 6 ) " " " "
## 9 ( 7 ) " " " "
## 9 ( 8 ) " " "*"
## 9 ( 9 ) " " " "
## 9 ( 10 ) " " " "
```

regsubsets

```
## function (x, ...)
## {
##     UseMethod("regsubsets", x)
## }
## <bytecode: 0x000000001eaf6d50>
## <environment: namespace:leaps>
```

**summary**(leaps)

```
## Subset selection object
## Call: regsubsets.formula(Attrition ~ i..Age + BusinessTravel + DailyRate +
##     DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +
##     HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +
##     MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +
##     StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
##     YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
##     data = emp_churn, nbest = 10)
## 22 Variables (and intercept)
##
```

	Forced in	Forced out
## i..Age	FALSE	FALSE
## BusinessTravelTravel_Frequently	FALSE	FALSE
## BusinessTravelTravel_Rarely	FALSE	FALSE
## DailyRate	FALSE	FALSE
## DistanceFromHome	FALSE	FALSE
## EnvironmentSatisfaction	FALSE	FALSE
## MaritalStatus1	FALSE	FALSE
## MaritalStatus2	FALSE	FALSE
## HourlyRate	FALSE	FALSE
## JobInvolvement	FALSE	FALSE
## JobLevel	FALSE	FALSE
## JobSatisfaction	FALSE	FALSE
## MonthlyIncome	FALSE	FALSE
## OverTime1	FALSE	FALSE
## PercentSalaryHike	FALSE	FALSE
## TotalWorkingYears	FALSE	FALSE
## WorkLifeBalance	FALSE	FALSE

```

## YearsAtCompany                FALSE      FALSE
## YearsInCurrentRole            FALSE      FALSE
## YearsSinceLastPromotion       FALSE      FALSE
## YearsWithCurrManager          FALSE      FALSE
## StandardHours                 FALSE      FALSE
## 10 subsets of each size up to 9
## Selection Algorithm: exhaustive
##      i..Age BusinessTravelTravel_Frequently
BusinessTravelTravel_Rarely
## 1 ( 1 ) " " " "
## 1 ( 2 ) " " " "
## 1 ( 3 ) " " " "
## 1 ( 4 ) " " " "
## 1 ( 5 ) " " " "
## 1 ( 6 ) "*" " "
## 1 ( 7 ) " " " "
## 1 ( 8 ) " " " "
## 1 ( 9 ) " " " "
## 1 ( 10 ) " " "*"
## 2 ( 1 ) " " " "
## 2 ( 2 ) " " " "
## 2 ( 3 ) "*" " "
## 2 ( 4 ) " " " "
## 2 ( 5 ) " " " "
## 2 ( 6 ) " " " "
## 2 ( 7 ) " " " "
## 2 ( 8 ) " " " "
## 2 ( 9 ) " " " "
## 2 ( 10 ) " " " "
## 3 ( 1 ) " " " "
## 3 ( 2 ) " " " "
## 3 ( 3 ) " " " "
## 3 ( 4 ) " " " "
## 3 ( 5 ) " " " "
## 3 ( 6 ) " " " "
## 3 ( 7 ) "*" " "
## 3 ( 8 ) "*" " "
## 3 ( 9 ) "*" " "
## 3 ( 10 ) " " "*"
## 4 ( 1 ) " " " "
## 4 ( 2 ) " " " "
## 4 ( 3 ) " " " "
## 4 ( 4 ) " " "*"
## 4 ( 5 ) " " " "
## 4 ( 6 ) " " " "
## 4 ( 7 ) " " " "
## 4 ( 8 ) "*" " "
## 4 ( 9 ) " " " "
## 4 ( 10 ) "*" " "
## 5 ( 1 ) " " " "

```

##	5	( 2 )	" "	" "	" "
##	5	( 3 )	" "	"*"	" "
##	5	( 4 )	" "	"*"	" "
##	5	( 5 )	" "	" "	" "
##	5	( 6 )	" "	" "	" "
##	5	( 7 )	" "	" "	" "
##	5	( 8 )	"*"	" "	" "
##	5	( 9 )	" "	" "	" "
##	5	( 10 )	" "	"*"	" "
##	6	( 1 )	" "	" "	" "
##	6	( 2 )	" "	"*"	" "
##	6	( 3 )	" "	" "	" "
##	6	( 4 )	" "	" "	" "
##	6	( 5 )	" "	" "	" "
##	6	( 6 )	" "	" "	" "
##	6	( 7 )	" "	"*"	" "
##	6	( 8 )	"*"	" "	" "
##	6	( 9 )	" "	" "	" "
##	6	( 10 )	" "	" "	" "
##	7	( 1 )	" "	" "	" "
##	7	( 2 )	" "	" "	" "
##	7	( 3 )	" "	" "	" "
##	7	( 4 )	" "	"*"	" "
##	7	( 5 )	" "	"*"	" "
##	7	( 6 )	" "	"*"	" "
##	7	( 7 )	" "	"*"	" "
##	7	( 8 )	"*"	" "	" "
##	7	( 9 )	"*"	"*"	" "
##	7	( 10 )	" "	"*"	" "
##	8	( 1 )	" "	"*"	" "
##	8	( 2 )	" "	"*"	" "
##	8	( 3 )	"*"	" "	" "
##	8	( 4 )	" "	"*"	" "
##	8	( 5 )	"*"	" "	" "
##	8	( 6 )	" "	" "	" "
##	8	( 7 )	" "	" "	" "
##	8	( 8 )	" "	" "	" "
##	8	( 9 )	" "	" "	" "
##	8	( 10 )	" "	" "	" "
##	9	( 1 )	"*"	"*"	" "
##	9	( 2 )	"*"	"*"	" "
##	9	( 3 )	" "	"*"	" "
##	9	( 4 )	" "	"*"	" "
##	9	( 5 )	" "	"*"	" "
##	9	( 6 )	" "	"*"	" "
##	9	( 7 )	" "	"*"	" "
##	9	( 8 )	" "	"*"	" "
##	9	( 9 )	" "	"*"	" "
##	9	( 10 )	" "	"*"	" "
##			DailyRate	DistanceFromHome	EnvironmentSatisfaction



# MaritalStatus1

## 1	( 1 )	" "	" "	" "	" "
## 1	( 2 )	" "	" "	" "	" "
## 1	( 3 )	" "	" "	" "	" "
## 1	( 4 )	" "	" "	" "	" "
## 1	( 5 )	" "	" "	" "	" "
## 1	( 6 )	" "	" "	" "	" "
## 1	( 7 )	" "	" "	" "	" "
## 1	( 8 )	" "	" "	" "	" "
## 1	( 9 )	" "	" "	" "	" "
## 1	( 10 )	" "	" "	" "	" "
## 2	( 1 )	" "	" "	" "	" "
## 2	( 2 )	" "	" "	" "	" "
## 2	( 3 )	" "	" "	" "	" "
## 2	( 4 )	" "	" "	" "	" "
## 2	( 5 )	" "	" "	" "	" "
## 2	( 6 )	" "	" "	" "	" "
## 2	( 7 )	" "	" "	" "	" "
## 2	( 8 )	" "	" "	" "	" "
## 2	( 9 )	" "	" "	"*"	" "
## 2	( 10 )	" "	" "	" "	" "
## 3	( 1 )	" "	" "	" "	" "
## 3	( 2 )	" "	" "	" "	" "
## 3	( 3 )	" "	" "	"*"	" "
## 3	( 4 )	" "	" "	" "	" "
## 3	( 5 )	" "	" "	"*"	" "
## 3	( 6 )	" "	" "	" "	" "
## 3	( 7 )	" "	" "	" "	" "
## 3	( 8 )	" "	" "	" "	" "
## 3	( 9 )	" "	" "	"*"	" "
## 3	( 10 )	" "	" "	" "	" "
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## 4	( 10 )	" "	" "	" "	" "
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## 5	( 3 )	" "	" "	"*"	" "
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## 6	( 3 )	" "	" "	" "	"*"
## 6	( 4 )	" "	" "	"*"	"*"
## 6	( 5 )	" "	" "	"*"	"*"
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## 6	( 7 )	" "	" "	"*"	" "
## 6	( 8 )	" "	" "	"*"	" "
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## 6	( 10 )	" "	" "	"*"	"*"
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## 7	( 10 )	" "	" "	" "	"*"
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## 8	( 2 )	" "	" "	"*"	"*"
## 8	( 3 )	" "	" "	"*"	"*"
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## 8	( 9 )	" "	" "	"*"	"*"
## 8	( 10 )	" "	" "	"*"	"*"
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## 9	( 2 )	" "	" "	"*"	"*"
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##		MaritalStatus2	HourlyRate	JobInvolvement	JobLevel
JobSatisfaction					
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## 1	( 2 )	" "	" "	" "	" "
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## 1	( 5 )	" "	" "	" "	" "
## 1	( 6 )	" "	" "	" "	" "
## 1	( 7 )	" "	" "	" "	" "

## 1 ( 8 )	" "	" "	" "	" "
## 1 ( 9 )	" "	" "	"*"	" "
## 1 ( 10 )	" "	" "	" "	" "
## 2 ( 1 )	" "	" "	" "	" "
## 2 ( 2 )	" "	" "	" "	"*"
## 2 ( 3 )	" "	" "	" "	" "
## 2 ( 4 )	" "	" "	" "	" "
## 2 ( 5 )	" "	" "	" "	" "
## 2 ( 6 )	" "	" "	" "	" "
## 2 ( 7 )	" "	" "	" "	" "
## 2 ( 8 )	" "	" "	"*"	" "
## 2 ( 9 )	" "	" "	" "	" "
## 2 ( 10 )	" "	" "	" "	"*"
## 3 ( 1 )	" "	" "	"*"	" "
## 3 ( 2 )	" "	" "	"*"	"*"
## 3 ( 3 )	" "	" "	" "	" "
## 3 ( 4 )	" "	" "	"*"	" "
## 3 ( 5 )	" "	" "	" "	"*"
## 3 ( 6 )	" "	" "	" "	"*"
## 3 ( 7 )	" "	" "	"*"	" "
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## 4 ( 7 )	" "	" "	" "	"*"
## 4 ( 8 )	" "	" "	"*"	" "
## 4 ( 9 )	"*"	" "	" "	" "
## 4 ( 10 )	" "	" "	"*"	" "
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## 5 ( 2 )	" "	" "	"*"	"*"
## 5 ( 3 )	" "	" "	"*"	" "
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## 5 ( 6 )	"*"	" "	" "	" "
## 5 ( 7 )	" "	" "	"*"	"*"
## 5 ( 8 )	" "	" "	"*"	" "
## 5 ( 9 )	"*"	" "	"*"	"*"
## 5 ( 10 )	" "	" "	"*"	" "
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## 6 ( 2 )	" "	" "	"*"	"*"
## 6 ( 3 )	"*"	" "	"*"	"*"
## 6 ( 4 )	"*"	" "	" "	"*"
## 6 ( 5 )	"*"	" "	"*"	" "
## 6 ( 6 )	"*"	" "	"*"	"*"
## 6 ( 7 )	" "	" "	"*"	"*"

## 6 ( 8 )	" "	" "	"*"	" "	"*"
## 6 ( 9 )	"*"	" "	"*"	" "	" "
## 6 ( 10 )	"*"	" "	" "	"*"	"*"
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## 7 ( 2 )	"*"	" "	"*"	"*"	"*"
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## 7 ( 7 )	"*"	" "	"*"	"*"	" "
## 7 ( 8 )	"*"	" "	"*"	" "	"*"
## 7 ( 9 )	" "	" "	"*"	" "	"*"
## 7 ( 10 )	"*"	" "	"*"	"*"	"*"
## 8 ( 1 )	"*"	" "	"*"	" "	"*"
## 8 ( 2 )	"*"	" "	"*"	"*"	"*"
## 8 ( 3 )	"*"	" "	"*"	" "	"*"
## 8 ( 4 )	"*"	" "	"*"	" "	"*"
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## 8 ( 6 )	"*"	" "	"*"	" "	"*"
## 8 ( 7 )	"*"	" "	"*"	"*"	"*"
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## 8 ( 9 )	"*"	" "	"*"	" "	"*"
## 8 ( 10 )	"*"	" "	"*"	"*"	"*"
## 9 ( 1 )	"*"	" "	"*"	" "	"*"
## 9 ( 2 )	"*"	" "	"*"	" "	"*"
## 9 ( 3 )	"*"	" "	"*"	" "	"*"
## 9 ( 4 )	"*"	" "	"*"	" "	"*"
## 9 ( 5 )	"*"	" "	"*"	"*"	"*"
## 9 ( 6 )	"*"	" "	"*"	" "	"*"
## 9 ( 7 )	"*"	" "	"*"	"*"	"*"
## 9 ( 8 )	"*"	" "	"*"	" "	"*"
## 9 ( 9 )	"*"	" "	"*"	" "	"*"
## 9 ( 10 )	"*"	" "	"*"	" "	"*"
##	MonthlyIncome	OverTime1	PercentSalaryHike	StandardHours	
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## 1 ( 3 )	" "	" "	" "	" "	
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## 1 ( 5 )	"*"	" "	" "	" "	
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## 1 ( 7 )	" "	" "	" "	" "	
## 1 ( 8 )	" "	" "	" "	" "	
## 1 ( 9 )	" "	" "	" "	" "	
## 1 ( 10 )	" "	" "	" "	" "	
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## 2 ( 3 )	" "	"*"	" "	" "	
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## 2 ( 5 )	" "	"*"	" "	" "	
## 2 ( 6 )	" "	"*"	" "	" "	

## 2	( 7 )	" "	"*"	" "	" "
## 2	( 8 )	" "	"*"	" "	" "
## 2	( 9 )	" "	"*"	" "	" "
## 2	( 10 )	" "	"*"	" "	" "
## 3	( 1 )	" "	"*"	" "	" "
## 3	( 2 )	" "	"*"	" "	" "
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## 3	( 5 )	" "	"*"	" "	" "
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## 7	( 10 )	" "	"*"	" "	" "
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## 8	( 7 )	" "	"*"	" "	" "
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## 8	( 9 )	" "	"*"	" "	" "
## 8	( 10 )	" "	"*"	" "	" "
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## 9	( 2 )	" "	"*"	" "	" "
## 9	( 3 )	" "	"*"	" "	" "
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## 9	( 8 )	"*"	"*"	" "	" "
## 9	( 9 )	" "	"*"	" "	" "
## 9	( 10 )	"*"	"*"	" "	" "
##	TotalWorkingYears WorkLifeBalance YearsAtCompany				
YearsInCurrentRole					
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## 1	( 7 )	" "	" "	" "	" "
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## 1	( 10 )	" "	" "	" "	" "
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## 2	( 7 )	" "	" "	"*"	" "
## 2	( 8 )	" "	" "	" "	" "
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## 2	( 10 )	" "	" "	" "	" "
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## 5	( 10 )	" "	" "	" "	" "
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## 8	( 10 )	" "	" "	" "	"*"
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## 9	( 8 )	" "	" "	" "	" "
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## 9	( 10 )	" "	" "	" "	"*"
##		YearsSinceLastPromotion	YearsWithCurrManager		
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## 1	( 4 )	" "	" "		
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## 1	( 7 )	" "	"*"		
## 1	( 8 )	" "	" "		
## 1	( 9 )	" "	" "		
## 1	( 10 )	" "	" "		
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## 2	( 3 )	" "	" "		
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## 2	( 7 )	" "	" "		
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## 2	( 9 )	" "	" "		
## 2	( 10 )	" "	" "		
## 3	( 1 )	" "	" "		
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## 3	( 5 )	" "	" "		
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## 3	( 8 )	" "	" "		
## 3	( 9 )	" "	" "		
## 3	( 10 )	" "	" "		
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## 4	( 2 )	" "	" "		
## 4	( 3 )	" "	" "		



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## 4	( 10 )	" "	" "
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## 5	( 2 )	" "	" "
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## 5	( 9 )	" "	" "
## 5	( 10 )	" "	" "
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## 6	( 2 )	" "	" "
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## 7	( 2 )	" "	" "
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## 7	( 9 )	" "	" "
## 7	( 10 )	" "	" "
## 8	( 1 )	" "	" "
## 8	( 2 )	" "	" "
## 8	( 3 )	" "	"*"
## 8	( 4 )	" "	" "
## 8	( 5 )	" "	" "
## 8	( 6 )	" "	" "
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## 8	( 9 )	" "	" "
## 8	( 10 )	" "	" "
## 9	( 1 )	" "	"*"
## 9	( 2 )	" "	" "
## 9	( 3 )	" "	" "

```
## 9 ( 4 ) " " "*"
## 9 ( 5 ) " " "*"
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## 9 ( 8 ) " " "*"
## 9 ( 9 ) " " " "
## 9 ( 10 ) " " " "
```

leaps

```
## Subset selection object
## Call: regsubsets.formula(Attrition ~ i..Age + BusinessTravel + DailyRate +
##   DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +
##   HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +
##   MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +
##   StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
##   YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
##   data = emp_churn, nbest = 10)
## 22 Variables (and intercept)
##
```

	Forced in	Forced out
## i..Age	FALSE	FALSE
## BusinessTravelTravel_Frequently	FALSE	FALSE
## BusinessTravelTravel_Rarely	FALSE	FALSE
## DailyRate	FALSE	FALSE
## DistanceFromHome	FALSE	FALSE
## EnvironmentSatisfaction	FALSE	FALSE
## MaritalStatus1	FALSE	FALSE
## MaritalStatus2	FALSE	FALSE
## HourlyRate	FALSE	FALSE
## JobInvolvement	FALSE	FALSE
## JobLevel	FALSE	FALSE
## JobSatisfaction	FALSE	FALSE
## MonthlyIncome	FALSE	FALSE
## OverTime1	FALSE	FALSE
## PercentSalaryHike	FALSE	FALSE
## TotalWorkingYears	FALSE	FALSE
## WorkLifeBalance	FALSE	FALSE
## YearsAtCompany	FALSE	FALSE
## YearsInCurrentRole	FALSE	FALSE
## YearsSinceLastPromotion	FALSE	FALSE
## YearsWithCurrManager	FALSE	FALSE
## StandardHours	FALSE	FALSE

```
## 10 subsets of each size up to 9
## Selection Algorithm: exhaustive

coef(leaps,1:10)

## [[1]]
## (Intercept)   OverTime1
##   0.1043643    0.2009241
##
```

```

## [[2]]
##      (Intercept) WorkLifeBalance
##      0.25315437      -0.03329316
##
## [[3]]
##      (Intercept)      JobLevel
##      0.27721332 -0.05619762
##
## [[4]]
##              (Intercept) YearsSinceLastPromotion
##              0.169470850      -0.003769325
##
## [[5]]
##      (Intercept) MonthlyIncome
##      0.2424415341 -0.0000124893
##
## [[6]]
##      (Intercept)      i..Age
##      0.397938009 -0.006410864
##
## [[7]]
##      (Intercept) StandardHours
##      0.1612245      0.0000000
##
## [[8]]
##      (Intercept) YearsInCurrentRole
##      0.2301630      -0.0163004
##
## [[9]]
##      (Intercept) JobInvolvement
##      0.34471872      -0.06721568
##
## [[10]]
##              (Intercept) BusinessTravelTravel_Frequently
##              0.1408215      0.1082760

summary(x)

##
## Call:
## lm(formula = Attrition ~ i..Age + BusinessTravel + DailyRate +
##      DistanceFromHome + EnvironmentSatisfaction + MaritalStatus +
##      HourlyRate + JobInvolvement + JobLevel + JobSatisfaction +
##      MaritalStatus + MonthlyIncome + OverTime + PercentSalaryHike +
##      StandardHours + TotalWorkingYears + WorkLifeBalance + YearsAtCompany +
##      YearsInCurrentRole + YearsSinceLastPromotion + YearsWithCurrManager,
##      data = emp_churn)
##
## Residuals:
##      Min        1Q    Median        3Q        Max

```

```
## -0.56216 -0.20840 -0.09171 0.05753 1.11567
##
## Coefficients: (1 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      8.341e-01  9.065e-02   9.201  < 2e-16 ***
## i..Age           -3.162e-03  1.326e-03  -2.384  0.01726 *
## BusinessTravelTravel_Frequently  1.514e-01  3.360e-02   4.505  7.18e-06 ***
## BusinessTravelTravel_Rarely      6.512e-02  2.904e-02   2.243  0.02507 *
## DailyRate        -2.791e-05  2.154e-05  -1.295  0.19538
## DistanceFromHome  3.460e-03  1.068e-03   3.239  0.00123 **
## EnvironmentSatisfaction -4.029e-02  7.927e-03  -5.083  4.20e-07 ***
## MaritalStatus1     -1.102e-01  2.014e-02  -5.474  5.17e-08 ***
## MaritalStatus2     -1.349e-01  2.399e-02  -5.622  2.26e-08 ***
## HourlyRate         -2.170e-04  4.271e-04  -0.508  0.61150
## JobInvolvement     -6.229e-02  1.220e-02  -5.107  3.71e-07 ***
## JobLevel           -2.387e-02  2.604e-02  -0.917  0.35937
## JobSatisfaction    -4.033e-02  7.858e-03  -5.132  3.25e-07 ***
## MonthlyIncome      -3.525e-07  6.016e-06  -0.059  0.95329
## OverTime1          2.024e-01  1.924e-02  10.522  < 2e-16 ***
## PercentSalaryHike  -1.674e-03  2.365e-03  -0.708  0.47918
## StandardHours      NA          NA          NA          NA
## TotalWorkingYears  -1.479e-03  2.358e-03  -0.627  0.53049
## WorkLifeBalance    -2.903e-02  1.227e-02  -2.365  0.01815 *
## YearsAtCompany      2.603e-03  2.931e-03   0.888  0.37455
## YearsInCurrentRole  -9.064e-03  3.914e-03  -2.316  0.02070 *
## YearsSinceLastPromotion  1.187e-02  3.455e-03   3.435  0.00061 ***
## YearsWithCurrManager -1.092e-02  4.019e-03  -2.718  0.00666 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.33 on 1448 degrees of freedom
## Multiple R-squared:  0.207, Adjusted R-squared:  0.1955
## F-statistic:    18 on 21 and 1448 DF,  p-value: < 2.2e-16
```

### *#Interpretation*

*#We have implemented a multiple linear regression model and have drawn certain conclusions.*

*#By implementing the model, we can say that,*

*# 1.) We are 99.99% sure that age is a highly significant variable in predicting attrition.*

*# 2.) We are 99.99% sure that frequent travel also contribute a lot in predicting attrition.*

*# 3.) Similarly Environment satisfaction, Marital status, Job Involvement, Overtime and promotion also contribute to the prediction of attrition.*

*#Also, based on the estimate values, we can write the equation and prediction the attrition value where 1 is yes and 0 is no.*