Analysis-Report

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```r
library(readxl)
df <- read_excel("C:/Users/Yue Sun/Desktop/project/case of default/Fitness Club Data.xlsx")
df = subset(df, (age > 5) & (df$age < 80)) # clean the data
df = subset(df, df$price != df$downpmt)
df$pmttype_1 = (df$pmttype %in% 1) * 1
df$pmttype_2 = (df$pmttype %in% 2) * 1
df$pmttype_3 = (df$pmttype %in% 3) * 1
df$pmttype_4 = (df$pmttype %in% 4) * 1
df$pmttype_5 = (df$pmttype %in% 5) * 1
#View(df)
#head(df)
```

1. Calculate basic stats descriptive statistics (mean, median, min, max, standard deviation) for each field

```r
range.date = c(min(df$enrolldt) , max(df$enrolldt))
range.date
```

```
## [1] 19970101 19990331
```

```r
c(sd(df$price),sd(df$downpmt), sd(df$monthdue),sd(df$age),sd(df$default))
```

```
## [1] 373.9580485  97.3342736    5.8927015   10.1041751    0.3446146
```
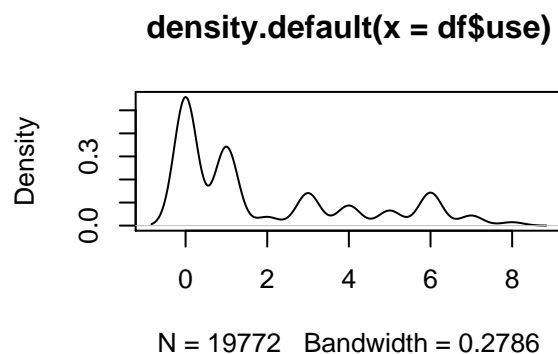
```r
summary(df)
```
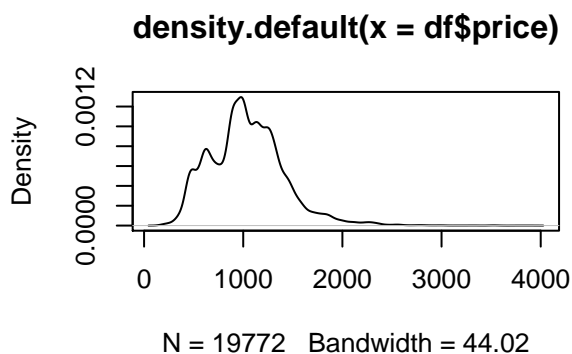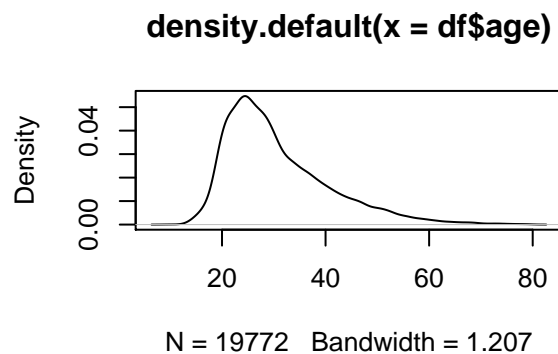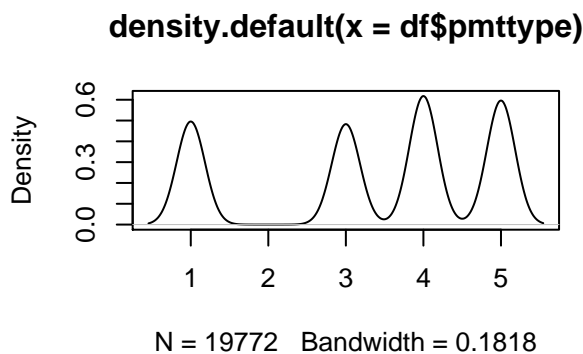
```
##     enrolldt              price           downpmt           monthdue
##  Min.   :19970101   Min.   : 176.4   Min.   :   0.0   Min.   : 0.000
##  1st Qu.:19970915   1st Qu.: 780.0   1st Qu.:  30.0   1st Qu.: 5.000
##  Median :19980416   Median : 999.0   Median :  76.0   Median : 6.000
##  Mean   :19978565   Mean   :1038.1   Mean   : 102.5   Mean   : 8.002
##  3rd Qu.:19981026   3rd Qu.:1254.0   3rd Qu.: 150.0   3rd Qu.: 9.000
##  Max.   :19990331   Max.   :3893.8   Max.   :1323.0   Max.   :81.510
##     pmttype          use              age            gender
##  Min.   :1.000   Min.   :0.000   Min.   :10.00   Min.   :1.000
##  1st Qu.:3.000   1st Qu.:0.000   1st Qu.:23.00   1st Qu.:1.000
##  Median :4.000   Median :1.000   Median :28.00   Median :1.000
##  Mean   :3.374   Mean   :1.952   Mean   :30.74   Mean   :1.494
##  3rd Qu.:5.000   3rd Qu.:3.000   3rd Qu.:36.00   3rd Qu.:2.000
##  Max.   :5.000   Max.   :8.000   Max.   :79.00   Max.   :2.000
##     default          pmttype_1         pmttype_2     pmttype_3         pmttype_4
##  Min.   :0.0000   Min.   :0.000   Min.   :0   Min.   :0.0000   Min.   :0.0000
```

```
##    1st Qu.:0.0000    1st Qu.:0.000    1st Qu.:0    1st Qu.:0.0000    1st Qu.:0.0000
##    Median :0.0000    Median :0.000    Median :0    Median :0.0000    Median :0.0000
##    Mean   :0.1377    Mean   :0.226    Mean   :0    Mean   :0.2203    Mean   :0.2818
##    3rd Qu.:0.0000    3rd Qu.:0.000    3rd Qu.:0    3rd Qu.:0.0000    3rd Qu.:1.0000
##    Max.   :1.0000    Max.   :1.000    Max.   :0    Max.   :1.0000    Max.   :1.0000
##     pmttype_5
##   Min.   :0.000
##   1st Qu.:0.000
##   Median :0.000
##   Mean   :0.272
##   3rd Qu.:1.000
##   Max.   :1.000
```

2. Visualize distributions of data elements using histograms for key variables and predict which variables you expect to be most correlated with default/churn.

```
par(mfrow=c(2,2))
plot(density(df$pmttype))
plot(density(df$age))
plot(density(df$price))
plot(density(df$use))
```


density.default(x = df$pmttype)

N = 19772   Bandwidth = 0.1818

density.default(x = df$age)

N = 19772   Bandwidth = 1.207

density.default(x = df$price)

N = 19772   Bandwidth = 44.02

density.default(x = df$use)

N = 19772   Bandwidth = 0.2786

```r
correlation = c(age.factor = cor(df$age , df$default), payment.type.factor = cor(df$pmttype,df$default)
                gender = cor(df$gender,df$default), price.factor = cor(df$price, df$default),
                downpmt.factor = cor(df$downpmt, df$default), monthdue = cor(df$monthdue,df$default),
                                                        use = cor(df$use,df$defaul
sort(correlation)
```

```
## payment.type.factor                 use        downpmt.factor            age.factor
##          -0.43019874          -0.27351641           -0.19717950           -0.09142983
##               gender            monthdue         price.factor
##          -0.04457216          -0.02417072           -0.00289382
# payment type is most correlated with default
```

3.Calculate Linear and/or Logistic Regression Models to Predict Churn/Retention, you may choose to identify groups within the data to narrow your focus on. (The "default" variable = churn, you may choose to only use age and payment type to build a model to predict "default" = churn)

```r
#model = lm(df$default~df$age + df$pmttype + df$use + df$downpmt)
#summary(model)
#predict(model)
input_ones = df[which(df$default == 1), ]
input_zeros = df[which(df$default == 0), ]
set.seed(100)
input_ones_training_rows = sample(1:nrow(input_ones), 0.7*nrow(input_ones))
input_zeros_training_rows <- sample(1:nrow(input_zeros), 0.7*nrow(input_ones))  # 0's for training. Pic
training_ones <- input_ones[input_ones_training_rows, ]
training_zeros <- input_zeros[input_zeros_training_rows, ]
trainingData <- rbind(training_ones, training_zeros)  # row bind the 1's and 0's
View(trainingData)
# Create Test Data
test_ones <- input_ones[-input_ones_training_rows, ]
test_zeros <- input_zeros[-input_zeros_training_rows, ]
testData <- rbind(test_ones, test_zeros)
View(testData)
logitMod = glm(default ~ price+ pmttype_1 + pmttype_2 + pmttype_3+pmttype_4+ pmttype_5 + use + downpmt,
predicted <- plogis(predict(logitMod, testData))
```

```
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
```

```
predicted
```

```
##            1            2            3            4            5            6
## 7.327526e-01 8.314055e-02 9.345803e-01 9.131738e-01 7.529522e-01 5.536497e-02
##            7            8            9           10           11           12
## 8.858402e-01 8.426174e-01 8.408538e-01 8.849288e-01 8.591125e-01 8.910843e-01
##           13           14           15           16           17           18
## 9.017481e-01 4.968976e-01 8.954291e-01 4.510418e-01 9.105614e-01 1.467988e-01
##           19           20           21           22           23           24
## 7.807171e-01 7.739980e-01 8.032169e-01 6.977301e-01 7.753545e-01 9.127131e-01
```

```
##           25           26           27           28           29           30
## 8.241816e-01 8.002692e-01 4.048958e-01 6.669701e-01 7.543011e-01 6.030544e-01
##           31           32           33           34           35           36
## 7.185259e-01 7.276502e-01 6.451618e-01 5.110438e-02 9.488917e-01 9.488917e-01
##           37           38           39           40           41           42
## 8.898411e-01 7.854810e-01 7.115823e-01 9.084342e-01 8.648862e-01 9.085454e-01
##           43           44           45           46           47           48
## 8.377927e-01 7.772207e-01 9.112079e-01 8.479607e-01 8.066442e-01 8.914067e-01
##           49           50           51           52           53           54
## 9.212809e-01 9.077997e-01 9.176479e-01 8.926312e-01 7.613543e-01 2.401896e-01
##           55           56           57           58           59           60
## 7.770524e-01 7.904372e-01 8.925254e-01 8.475342e-01 3.784939e-01 9.386715e-01
##           61           62           63           64           65           66
## 5.365470e-01 9.075290e-01 4.997235e-01 8.321716e-01 8.270790e-01 9.308274e-01
##           67           68           69           70           71           72
## 6.041168e-02 8.861386e-01 9.190282e-01 8.496248e-01 5.694986e-01 8.922124e-01
##           73           74           75           76           77           78
## 7.064369e-01 1.910920e-01 7.828023e-01 7.984739e-01 9.271889e-01 9.237990e-01
##           79           80           81           82           83           84
## 9.148068e-01 8.685482e-01 9.350207e-01 8.849152e-01 9.159014e-01 9.098835e-01
##           85           86           87           88           89           90
## 9.067613e-01 8.834268e-01 8.836337e-01 8.825502e-01 8.492550e-01 8.648862e-01
##           91           92           93           94           95           96
## 8.771047e-01 8.648862e-01 4.615833e-01 8.927445e-01 2.155936e-01 9.840874e-01
##           97           98           99          100          101          102
## 4.987674e-01 9.427933e-01 9.386715e-01 9.091921e-01 8.688955e-01 8.939194e-01
##          103          104          105          106          107          108
## 8.636163e-01 8.436116e-01 8.914067e-01 8.806127e-01 9.595923e-01 8.965494e-01
##          109          110          111          112          113          114
## 8.078833e-01 8.820413e-01 8.577753e-01 8.835550e-01 8.608878e-01 8.516708e-01
##          115          116          117          118          119          120
## 8.475342e-01 3.672735e-01 1.599392e-01 8.858765e-01 6.897972e-01 6.097138e-01
##          121          122          123          124          125          126
## 8.433282e-01 8.038511e-01 8.456748e-01 8.454660e-01 3.838476e-01 7.765956e-01
##          127          128          129          130          131          132
## 3.383801e-01 8.571371e-01 7.732685e-01 5.135768e-01 8.589648e-01 7.231055e-01
##          133          134          135          136          137          138
## 5.660233e-01 7.027726e-01 8.853333e-01 9.035728e-01 8.977741e-01 8.608878e-01
##          139          140          141          142          143          144
## 9.184010e-01 9.294329e-01 8.910958e-01 9.386715e-01 8.368194e-01 8.918497e-01
##          145          146          147          148          149          150
## 9.009376e-01 8.996908e-01 9.193863e-01 9.137779e-01 8.762302e-01 9.279356e-01
##          151          152          153          154          155          156
## 9.321002e-01 8.871092e-01 1.124281e-01 8.573899e-01 8.897366e-01 8.366728e-01
##          157          158          159          160          161          162
## 9.013914e-01 9.163270e-01 8.861664e-01 9.230707e-01 8.918497e-01 8.636163e-01
##          163          164          165          166          167          168
## 8.173296e-01 9.362418e-01 8.154307e-01 9.696099e-01 8.448812e-01 7.904372e-01
##          169          170          171          172          173          174
## 8.895033e-01 9.075290e-01 9.228231e-01 7.615762e-01 8.314412e-01 7.839068e-01
##          175          176          177          178          179          180
## 8.153098e-01 4.808837e-01 8.241816e-01 7.027726e-01 8.287973e-01 7.629896e-01
##          181          182          183          184          185          186
## 1.503903e-01 6.929251e-01 8.329318e-01 8.927512e-02 2.280874e-01 7.428269e-01
```

```
##           187          188          189          190          191          192
## 6.576865e-01 4.671088e-01 3.441689e-01 8.910958e-01 8.861664e-01 7.898069e-01
##           193          194          195          196          197          198
## 9.521625e-01 9.180738e-01 9.380528e-01 8.858648e-01 8.971767e-01 8.509440e-01
##           199          200          201          202          203          204
## 9.404431e-01 7.672662e-01 6.965713e-01 8.873969e-01 9.131396e-01 7.618163e-01
##           205          206          207          208          209          210
## 8.797903e-01 6.743706e-01 9.098835e-01 8.982603e-01 8.782170e-01 8.771047e-01
##           211          212          213          214          215          216
## 8.152847e-01 9.181199e-01 8.355579e-01 8.688955e-01 9.071608e-01 9.277193e-01
##           217          218          219          220          221          222
## 1.163107e-01 7.201973e-01 9.404985e-01 8.487217e-01 8.878776e-01 8.377197e-01
##           223          224          225          226          227          228
## 8.790065e-01 4.060749e-01 9.009376e-01 8.860303e-01 9.094549e-01 8.339476e-01
##           229          230          231          232          233          234
## 8.448812e-01 9.105902e-01 6.220092e-01 8.538374e-01 8.448812e-01 8.078833e-01
##           235          236          237          238          239          240
## 1.595017e-02 8.852225e-01 7.891611e-01 7.931131e-01 9.184362e-01 7.628697e-02
##           241          242          243          244          245          246
## 6.886070e-01 7.566774e-01 3.448442e-01 7.468246e-01 8.682681e-01 6.479349e-01
##           247          248          249          250          251          252
## 7.679971e-01 5.499680e-01 9.128085e-01 8.898411e-01 9.141866e-01 9.031977e-01
##           253          254          255          256          257          258
## 8.118661e-01 8.863761e-01 8.849152e-01 7.968172e-01 9.355029e-01 9.098835e-01
##           259          260          261          262          263          264
## 6.646476e-01 9.009376e-01 8.617298e-01 9.403513e-01 8.591125e-01 8.757678e-01
##           265          266          267          268          269          270
## 7.197001e-01 8.146360e-01 1.579476e-01 9.384252e-01 2.863222e-01 8.861905e-01
##           271          272          273          274          275          276
## 9.133412e-01 9.098835e-01 8.599191e-01 6.876553e-01 8.884655e-01 8.914067e-01
##           277          278          279          280          281          282
## 9.015509e-01 4.797724e-01 8.064780e-01 8.112801e-01 8.556537e-01 8.097256e-01
##           283          284          285          286          287          288
## 9.538514e-01 9.037009e-01 8.963878e-01 7.423434e-01 1.936457e-01 8.454660e-01
##           289          290          291          292          293          294
## 6.121370e-01 8.516471e-01 8.508321e-01 9.124566e-01 6.901736e-01 7.726019e-01
##           295          296          297          298          299          300
## 4.870708e-01 6.952513e-01 6.929251e-01 8.567045e-01 7.218026e-01 4.476526e-02
##           301          302          303          304          305          306
## 7.599214e-01 3.722462e-01 8.849152e-01 9.386715e-01 9.184337e-01 9.220278e-01
##           307          308          309          310          311          312
## 4.044089e-01 9.527354e-01 9.009376e-01 8.906263e-01 9.141866e-01 8.893591e-01
##           313          314          315          316          317          318
## 8.422724e-01 8.927445e-01 8.975403e-01 8.726648e-01 9.701160e-01 9.386715e-01
##           319          320          321          322          323          324
## 8.861664e-01 7.893576e-01 9.264508e-01 4.494073e-01 8.377197e-01 8.511258e-01
##           325          326          327          328          329          330
## 7.994369e-01 7.745500e-01 7.772207e-01 8.910525e-01 9.005263e-01 7.058769e-01
##           331          332          333          334          335          336
## 9.141866e-01 7.929034e-01 6.773096e-01 4.669986e-01 9.490770e-01 8.306906e-01
##           337          338          339          340          341          342
## 7.086548e-01 6.696356e-01 6.648713e-01 6.696356e-01 7.344539e-01 4.374634e-01
##           343          344          345          346          347          348
## 5.206684e-01 7.402415e-01 8.348953e-01 5.555525e-01 7.228962e-01 7.228962e-01
```

```
##              349          350          351          352          353          354
## 7.818099e-01 8.939072e-01 9.067613e-01 2.569494e-01 8.319985e-01 9.355029e-01
##              355          356          357          358          359          360
## 9.077997e-01 9.386715e-01 9.294329e-01 8.972500e-01 9.081952e-01 8.747636e-01
##              361          362          363          364          365          366
## 8.688955e-01 8.110274e-01 7.907311e-01 9.386715e-01 9.355029e-01 4.868719e-01
##              367          368          369          370          371          372
## 9.067613e-01 9.077997e-01 9.374245e-01 9.294329e-01 9.386715e-01 8.757678e-01
##              373          374          375          376          377          378
## 8.874057e-01 7.956721e-01 9.510840e-01 7.968172e-01 8.924901e-01 8.216858e-01
##              379          380          381          382          383          384
## 9.156589e-01 9.085597e-01 9.427869e-01 9.263053e-01 7.654507e-01 7.239708e-01
##              385          386          387          388          389          390
## 7.835735e-01 8.456748e-01 6.613415e-01 8.659551e-01 6.001567e-01 8.435035e-01
##              391          392          393          394          395          396
## 7.566774e-01 3.350086e-01 2.487151e-01 6.648713e-01 6.236850e-01 6.267050e-01
##              397          398          399          400          401          402
## 9.085597e-01 8.177631e-01 8.224989e-01 9.409488e-01 8.831417e-01 9.468439e-01
##              403          404          405          406          407          408
## 9.179818e-01 8.831417e-01 7.893576e-01 3.111773e-01 8.927445e-01 4.438681e-01
##              409          410          411          412          413          414
## 9.087984e-01 6.919210e-01 8.634372e-01 9.031468e-01 8.549035e-01 8.205811e-01
##              415          416          417          418          419          420
## 9.085597e-01 6.383509e-01 1.236908e-01 9.098835e-01 7.315811e-01 7.675887e-01
##              421          422          423          424          425          426
## 8.496653e-01 9.017481e-01 8.270790e-01 9.386715e-01 9.201359e-01 9.432833e-01
##              427          428          429          430          431          432
## 8.239013e-01 5.773718e-01 7.167070e-01 9.304812e-01 9.381153e-01 4.622061e-02
##              433          434          435          436          437          438
## 6.977301e-01 8.726145e-01 3.910026e-01 2.893720e-01 6.001567e-01 8.080900e-01
##              439          440          441          442          443          444
## 8.089205e-01 6.268614e-01 8.976512e-01 8.903146e-01 8.880385e-01 9.763175e-01
##              445          446          447          448          449          450
## 9.420335e-01 9.067613e-01 8.774905e-01 8.494141e-01 8.795093e-01 8.063981e-01
##              451          452          453          454          455          456
## 9.300586e-01 8.205811e-01 8.343996e-01 4.406981e-02 9.415209e-01 1.483744e-01
##              457          458          459          460          461          462
## 9.085597e-01 8.774905e-01 8.927445e-01 9.017481e-01 3.357272e-01 5.010796e-01
##              463          464          465          466          467          468
## 8.945286e-01 8.498680e-01 9.260845e-01 8.316751e-01 8.153098e-01 8.153098e-01
##              469          470          471          472          473          474
## 8.134438e-01 8.438463e-01 8.000350e-02 2.995957e-01 2.284494e-01 7.566774e-01
##              475          476          477          478          479          480
## 6.434938e-01 5.469702e-01 7.529205e-01 5.320338e-01 7.619831e-01 9.098454e-01
##              481          482          483          484          485          486
## 8.887288e-01 9.355096e-01 9.110853e-01 8.492550e-01 9.020339e-01 9.058783e-01
##              487          488          489          490          491          492
## 7.335000e-01 9.138343e-01 7.790017e-01 8.906725e-01 7.552647e-01 7.639495e-01
##              493          494          495          496          497          498
## 5.035895e-01 9.255045e-01 3.179727e-01 8.293609e-01 3.262406e-02 8.731797e-01
##              499          500          501          502          503          504
## 7.335000e-01 9.085597e-01 9.148013e-01 6.454264e-01 8.108117e-01 8.270790e-01
##              505          506          507          508          509          510
## 8.509464e-01 6.719731e-01 8.009861e-01 7.506757e-01 5.593881e-01 5.206684e-01
```

```
##           511          512          513          514          515          516
## 8.241816e-01 8.635942e-01 4.870647e-01 6.375702e-01 7.561051e-01 9.294329e-01
##           517          518          519          520          521          522
## 9.212809e-01 8.858760e-01 4.167890e-01 6.965713e-01 7.790740e-01 8.586406e-01
##           523          524          525          526          527          528
## 8.824759e-01 8.740270e-01 8.795093e-01 8.906725e-01 2.243846e-01 8.361082e-01
##           529          530          531          532          533          534
## 9.311574e-01 8.248858e-02 4.932385e-01 9.260845e-01 8.577753e-01 8.839554e-01
##           535          536          537          538          539          540
## 8.936688e-01 2.969813e-01 8.191996e-01 8.894154e-01 9.568233e-01 9.386715e-01
##           541          542          543          544          545          546
## 6.189304e-01 2.653667e-01 8.165972e-01 8.610851e-01 6.929251e-01 7.443390e-01
##           547          548          549          550          551          552
## 3.932185e-01 1.865065e-02 5.165086e-01 4.431947e-02 6.648713e-01 4.038698e-01
##           553          554          555          556          557          558
## 6.305663e-01 9.066145e-01 8.861664e-01 9.840874e-01 1.215451e-01 9.180738e-01
##           559          560          561          562          563          564
## 9.085597e-01 9.087984e-01 7.435829e-01 6.834541e-01 9.068310e-01 6.029734e-01
##           565          566          567          568          569          570
## 9.115902e-01 9.374245e-01 8.293609e-01 7.959592e-01 9.028363e-01 9.175974e-01
##           571          572          573          574          575          576
## 4.174612e-02 9.350941e-02 3.697818e-01 8.132162e-01 2.934639e-01 9.386715e-01
##           577          578          579          580          581          582
## 9.238947e-01 7.765092e-01 8.510927e-01 8.314412e-01 8.494254e-01 1.957200e-01
##           583          584          585          586          587          588
## 3.107428e-01 3.754754e-01 3.050512e-01 9.031193e-01 8.977741e-01 9.141866e-01
##           589          590          591          592          593          594
## 8.571470e-01 8.097262e-01 9.194523e-01 9.300586e-01 8.763324e-01 8.769066e-01
##           595          596          597          598          599          600
## 8.408456e-01 8.825450e-01 8.870826e-01 7.260029e-01 2.806890e-01 8.456748e-01
##           601          602          603          604          605          606
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##           607          608          609          610          611          612
## 6.001567e-01 2.374338e-01 7.430433e-01 7.543975e-01 8.633206e-01 6.929251e-01
##           613          614          615          616          617          618
## 9.234748e-01 9.355096e-01 9.075201e-01 8.368194e-01 8.807748e-01 8.377197e-01
##           619          620          621          622          623          624
## 8.901562e-01 8.580577e-01 9.009376e-01 9.067613e-01 7.723871e-01 3.596274e-01
##           625          626          627          628          629          630
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##           631          632          633          634          635          636
## 8.965793e-01 8.575945e-01 7.991037e-01 5.112309e-01 7.526022e-01 3.319606e-01
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## 8.047401e-01 5.201892e-01 7.108805e-01 4.350533e-01 7.366085e-01 9.676349e-01
##           643          644          645          646          647          648
## 8.361090e-01 8.463767e-01 8.176938e-01 8.757678e-01 8.942811e-01 9.378749e-01
##           649          650          651          652          653          654
## 8.642145e-01 8.755988e-01 7.893172e-01 6.713548e-01 6.764592e-01 7.425044e-01
##           655          656          657          658          659          660
## 4.682602e-01 8.209974e-01 7.412601e-01 6.854884e-01 8.134438e-01 9.182222e-01
##           661          662          663          664          665          666
## 9.009376e-01 8.442132e-01 9.098835e-01 9.161350e-01 7.529759e-01 1.644560e-01
##           667          668          669          670          671          672
## 8.927445e-01 2.069493e-01 9.434306e-01 6.897295e-01 4.738754e-01 7.577227e-01
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##             673            674            675            676            677            678
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##             679            680            681            682            683            684
## 8.309024e-01 8.880385e-01 6.612650e-01 9.116276e-01 4.738535e-01 8.690310e-01
##             685            686            687            688            689            690
## 1.593758e-01 8.153098e-01 6.952513e-01 8.652073e-01 9.535330e-01 4.158230e-01
##             691            692            693            694            695            696
## 6.929251e-01 8.076995e-01 9.098835e-01 9.085454e-01 8.827717e-01 9.185679e-01
##             697            698            699            700            701            702
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##             703            704            705            706            707            708
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##             709            710            711            712            713            714
## 9.156458e-01 1.181153e-01 8.561481e-01 1.467050e-01 5.719800e-01 8.571371e-01
##             715            716            717            718            719            720
## 5.718295e-01 5.882514e-01 9.348278e-01 9.391284e-01 9.132764e-01 9.020339e-01
##             721            722            723            724            725            726
## 5.479880e-01 8.798513e-01 6.908104e-01 8.861664e-01 8.036603e-01 9.222381e-01
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## 2.069184e-01 8.473334e-01 7.756731e-01 6.945936e-01 6.705610e-01 5.356830e-01
##             733            734            735            736            737            738
## 8.305215e-01 6.016755e-01 6.929251e-01 8.708525e-01 6.874246e-01 8.749339e-01
##             739            740            741            742            743            744
## 9.143446e-01 8.226005e-01 8.914067e-01 8.927445e-01 7.081229e-01 7.435196e-01
##             745            746            747            748            749            750
## 8.467458e-01 8.134438e-01 6.895254e-01 4.414304e-01 6.257986e-01 7.222961e-01
##             751            752            753            754            755            756
## 8.940843e-01 9.131738e-01 4.277279e-01 7.926444e-01 4.597213e-01 8.323763e-01
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## 8.333762e-01 7.634831e-01 6.941340e-01 5.629588e-01 8.914530e-01 9.078090e-01
##             763            764            765            766            767            768
## 8.650637e-01 8.545192e-01 7.357802e-01 9.051741e-01 8.032813e-01 9.108789e-01
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## 9.081408e-01 9.138343e-01 6.743706e-01 8.241816e-01 1.776431e-01 2.374321e-01
##             793            794            795            796            797            798
## 9.908437e-01 8.969012e-01 6.377196e-01 5.436529e-01 4.186570e-01 9.157724e-01
##             799            800            801            802            803            804
## 6.112591e-01 8.399299e-01 7.525091e-01 7.483812e-01 9.010578e-01 8.718168e-01
##             805            806            807            808            809            810
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##             811            812            813            814            815            816
## 8.481907e-01 8.153098e-01 7.615762e-01 2.662432e-01 7.219972e-01 4.626634e-01
##             817            818            819            820            821            822
## 8.163669e-01 7.381453e-01 3.484880e-06 2.002170e-01 1.091598e-01 5.090280e-02
##             823            824            825            826            827            828
## 2.906232e-02 6.417414e-02 4.763832e-02 7.794456e-02 4.584389e-02 5.237612e-02
##             829            830            831            832            833            834
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## 5.144622e-02 2.852160e-03 1.995920e-02 6.980421e-03 5.522349e-01 5.657531e-02
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## 7.964172e-01 8.288583e-01 3.303693e-01 8.424620e-01 1.584954e-01 5.833325e-02
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##           859          860          861          862          863          864
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##           865          866          867          868          869          870
## 1.195433e-02 5.350676e-02 1.159237e-01 1.019968e-01 6.461325e-01 7.137769e-02
##           871          872          873          874          875          876
## 1.958926e-03 5.154414e-02 5.451895e-03 1.022239e-02 8.426174e-01 1.405376e-01
##           877          878          879          880          881          882
## 1.343672e-01 4.052528e-04 1.359977e-01 7.372367e-01 5.371916e-02 1.252922e-02
##           883          884          885          886          887          888
## 9.358232e-01 4.648716e-02 5.567442e-01 5.447740e-01 2.836302e-01 6.119687e-01
##           889          890          891          892          893          894
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##           895          896          897          898          899          900
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##           901          902          903          904          905          906
## 5.047081e-02 1.693255e-02 3.594284e-01 2.936873e-02 4.645537e-02 9.813822e-02
##           907          908          909          910          911          912
## 2.668910e-02 5.626792e-03 8.732394e-02 1.115058e-01 1.898276e-01 1.379927e-01
##           913          914          915          916          917          918
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##           919          920          921          922          923          924
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##           937          938          939          940          941          942
## 1.379271e-02 4.584887e-02 8.940052e-01 3.842967e-02 7.402532e-02 1.834036e-01
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## 5.403557e-01 1.435894e-03 7.503660e-02 7.728393e-03 7.859906e-01 5.599625e-01
##           967          968          969          970          971          972
## 3.988442e-03 1.469583e-03 1.646108e-01 1.442657e-01 6.603623e-02 2.102353e-01
##           973          974          975          976          977          978
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##           979          980          981          982          983          984
## 1.398119e-01 2.996700e-01 4.120674e-03 6.591051e-02 2.635970e-03 1.694394e-02
##           985          986          987          988          989          990
## 7.259619e-02 6.201079e-02 3.558686e-06 2.930169e-02 1.429971e-01 6.840364e-01
##           991          992          993          994          995          996
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##         1009        1010        1011        1012        1013        1014
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##         1015        1016        1017        1018        1019        1020
## 9.555109e-04 9.765470e-02 1.944199e-01 8.373603e-02 4.836209e-01 5.684513e-01
##         1021        1022        1023        1024        1025        1026
## 5.585812e-03 8.393715e-01 2.084533e-01 1.246930e-01 8.410238e-01 2.268646e-02
##         1027        1028        1029        1030        1031        1032
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##         1033        1034        1035        1036        1037        1038
## 1.771689e-04 5.292509e-02 8.858402e-01 8.538590e-01 1.284253e-01 5.797841e-03
##         1039        1040        1041        1042        1043        1044
## 8.408662e-01 1.075364e-01 1.337851e-01 3.568024e-02 2.819351e-02 7.149495e-01
##         1045        1046        1047        1048        1049        1050
## 1.257187e-01 8.008335e-02 2.001996e-01 1.302998e-02 7.486780e-01 4.148257e-02
##         1051        1052        1053        1054        1055        1056
## 4.863102e-02 2.549354e-02 2.811436e-02 2.071219e-01 3.369556e-02 1.913660e-01
##         1057        1058        1059        1060        1061        1062
## 1.465173e-03 8.519923e-02 2.202289e-02 1.820514e-01 4.082857e-03 5.350189e-01
##         1063        1064        1065        1066        1067        1068
## 3.130335e-02 1.577432e-01 1.178044e-01 1.499227e-01 8.162509e-02 1.193924e-01
##         1069        1070        1071        1072        1073        1074
## 5.749388e-02 8.445854e-02 7.062261e-01 1.600879e-01 2.014453e-03 7.308605e-01
##         1075        1076        1077        1078        1079        1080
## 1.311414e-01 1.047577e-01 2.450194e-01 3.642946e-02 2.225145e-05 6.482704e-01
##         1081        1082        1083        1084        1085        1086
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##         1087        1088        1089        1090        1091        1092
## 5.016094e-01 4.596843e-01 8.333470e-02 5.105571e-02 1.507321e-01 3.026272e-03
##         1093        1094        1095        1096        1097        1098
## 5.274204e-04 4.994309e-02 1.310815e-03 2.357378e-03 6.349518e-02 8.058908e-01
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##         1105        1106        1107        1108        1109        1110
## 1.045919e-02 1.303452e-01 9.916705e-02 1.923915e-03 5.928947e-02 1.805166e-01
##         1111        1112        1113        1114        1115        1116
## 1.414570e-01 1.299886e-02 3.088950e-02 7.293281e-02 3.833208e-01 1.416239e-02
##         1117        1118        1119        1120        1121        1122
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##         1123        1124        1125        1126        1127        1128
## 1.839823e-01 5.518680e-01 1.252875e-03 1.152141e-01 1.529673e-02 3.495139e-02
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##         1141        1142        1143        1144        1145        1146
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##         1147        1148        1149        1150        1151        1152
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## 1.124794e-01 6.429036e-03 6.219460e-06 1.514908e-01 7.387918e-01 3.582103e-01
##          1177          1178          1179          1180          1181          1182
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##          1183          1184          1185          1186          1187          1188
## 5.583100e-01 5.306789e-02 5.551144e-02 5.364053e-01 7.914028e-01 1.683716e-02
##          1189          1190          1191          1192          1193          1194
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##          1195          1196          1197          1198          1199          1200
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##          1207          1208          1209          1210          1211          1212
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##          1225          1226          1227          1228          1229          1230
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##          1231          1232          1233          1234          1235          1236
## 4.845696e-02 6.764592e-01 7.682340e-03 8.474377e-02 1.581099e-03 6.895136e-01
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##          1255          1256          1257          1258          1259          1260
## 1.223857e-01 1.401136e-01 9.125318e-03 5.292509e-02 9.251584e-03 2.357202e-04
##          1261          1262          1263          1264          1265          1266
## 1.192906e-02 2.560990e-01 4.695026e-02 6.408377e-01 1.100361e-02 4.215619e-03
##          1267          1268          1269          1270          1271          1272
## 8.785204e-02 4.323949e-02 6.288643e-02 6.648494e-02 5.982414e-01 1.221331e-04
##          1273          1274          1275          1276          1277          1278
## 5.617246e-02 6.718944e-01 9.539569e-03 6.375187e-03 2.932895e-02 5.013580e-04
##          1279          1280          1281          1282          1283          1284
## 2.207493e-01 4.171142e-02 3.295747e-01 6.137201e-01 3.514029e-02 5.798680e-02
##          1285          1286          1287          1288          1289          1290
## 1.813030e-01 1.571650e-02 8.077335e-02 1.075258e-01 7.043412e-02 9.299331e-02
##          1291          1292          1293          1294          1295          1296
## 6.768889e-01 1.382692e-01 9.087844e-02 6.872120e-01 6.358943e-02 6.065758e-01
##          1297          1298          1299          1300          1301          1302
## 2.054023e-02 8.391680e-03 7.085149e-02 7.986685e-01 2.719225e-03 5.253180e-01
##          1303          1304          1305          1306          1307          1308
## 1.080701e-01 1.438882e-01 3.253722e-01 4.931932e-02 2.778378e-01 4.683909e-01
##          1309          1310          1311          1312          1313          1314
## 4.994702e-03 1.953774e-02 6.781174e-04 7.786946e-01 1.657312e-01 1.569728e-02
##          1315          1316          1317          1318          1319          1320
## 1.969621e-02 4.914216e-01 4.735553e-03 6.733174e-02 1.567194e-01 1.570185e-03
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##          1321          1322          1323          1324          1325          1326
## 1.578182e-01 5.802407e-02 4.778125e-01 8.292951e-01 9.280317e-01 1.201779e-03
##          1327          1328          1329          1330          1331          1332
## 7.190800e-02 8.282646e-01 8.466783e-01 8.939072e-01 4.741515e-01 8.164713e-01
##          1333          1334          1335          1336          1337          1338
## 7.095511e-01 5.949964e-01 9.108789e-01 8.922204e-02 1.587114e-02 1.730593e-01
##          1339          1340          1341          1342          1343          1344
## 3.529575e-02 8.973715e-02 3.076335e-02 5.747773e-01 3.858751e-03 9.085597e-01
##          1345          1346          1347          1348          1349          1350
## 6.799448e-01 6.812305e-03 9.130290e-04 8.892374e-01 1.469463e-03 3.706858e-06
##          1351          1352          1353          1354          1355          1356
## 7.558654e-02 8.030984e-02 9.053323e-01 2.714983e-01 9.185587e-01 2.930610e-01
##          1357          1358          1359          1360          1361          1362
## 1.557425e-01 2.055819e-01 1.823057e-01 8.636163e-01 8.224438e-01 7.610677e-01
##          1363          1364          1365          1366          1367          1368
## 9.533117e-02 7.979715e-01 1.089151e-01 6.495808e-03 2.287834e-03 3.033519e-02
##          1369          1370          1371          1372          1373          1374
## 2.642119e-01 1.847242e-01 8.823357e-01 8.670653e-01 9.814625e-04 7.745500e-01
##          1375          1376          1377          1378          1379          1380
## 7.789005e-03 1.999923e-01 8.774905e-01 3.098810e-02 9.712348e-02 7.211730e-03
##          1381          1382          1383          1384          1385          1386
## 2.812825e-02 3.741902e-02 1.171135e-01 4.585444e-02 8.988934e-01 8.203320e-01
##          1387          1388          1389          1390          1391          1392
## 7.326937e-01 1.613785e-01 7.529522e-01 5.761009e-02 8.861664e-01 4.946742e-03
##          1393          1394          1395          1396          1397          1398
## 3.558340e-02 4.002547e-02 4.357856e-02 1.359321e-02 7.751753e-01 1.072759e-01
##          1399          1400          1401          1402          1403          1404
## 4.294831e-02 7.198982e-01 1.324222e-01 1.103600e-02 6.842275e-02 7.210463e-02
##          1405          1406          1407          1408          1409          1410
## 4.113513e-02 9.622684e-02 5.251980e-01 1.514528e-01 5.071181e-02 2.117765e-01
##          1411          1412          1413          1414          1415          1416
## 3.476736e-02 1.724917e-03 3.981556e-01 1.833504e-01 1.326665e-02 2.656439e-01
##          1417          1418          1419          1420          1421          1422
## 3.668613e-03 7.038917e-01 8.825450e-01 5.352908e-01 6.065631e-03 4.043977e-02
##          1423          1424          1425          1426          1427          1428
## 2.808566e-02 8.211870e-01 3.856565e-02 1.206678e-01 8.858402e-01 7.873146e-02
##          1429          1430          1431          1432          1433          1434
## 8.659551e-01 2.316552e-01 5.816631e-01 6.290128e-01 1.061468e-01 8.470599e-01
##          1435          1436          1437          1438          1439          1440
## 5.444173e-02 2.628252e-01 1.448438e-02 4.021791e-01 7.654762e-02 8.970204e-01
##          1441          1442          1443          1444          1445          1446
## 1.127882e-01 9.556281e-02 7.364494e-02 7.795192e-01 3.168997e-02 1.224945e-02
##          1447          1448          1449          1450          1451          1452
## 2.013411e-02 8.520003e-01 1.708622e-01 9.210806e-02 2.694278e-02 8.043974e-01
##          1453          1454          1455          1456          1457          1458
## 2.436789e-01 9.228231e-01 5.387163e-01 2.503455e-03 8.199120e-01 3.592934e-01
##          1459          1460          1461          1462          1463          1464
## 8.892600e-01 6.080494e-02 4.198368e-02 4.654291e-02 4.416651e-01 7.745881e-01
##          1465          1466          1467          1468          1469          1470
## 7.039148e-01 3.188442e-01 6.810512e-01 2.300115e-01 3.307510e-01 2.645256e-02
##          1471          1472          1473          1474          1475          1476
## 8.543380e-01 3.753429e-01 1.379592e-02 1.115792e-01 6.145642e-03 3.827393e-01
##          1477          1478          1479          1480          1481          1482
## 7.337248e-01 3.880020e-03 1.219508e-01 2.374338e-01 6.950215e-01 2.672417e-02
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##          1483         1484         1485         1486         1487         1488
## 9.325549e-01 1.309545e-01 1.078729e-03 1.194939e-03 8.738393e-01 5.482594e-02
##          1489         1490         1491         1492         1493         1494
## 3.861998e-01 8.880740e-01 3.005795e-01 3.763333e-02 1.723349e-02 5.463228e-04
##          1495         1496         1497         1498         1499         1500
## 1.124310e-01 4.251862e-02 5.134914e-02 7.862048e-01 6.189304e-01 5.302840e-02
##          1501         1502         1503         1504         1505         1506
## 1.380933e-01 7.640600e-01 3.739064e-01 1.555120e-03 1.586758e-02 3.272205e-01
##          1507         1508         1509         1510         1511         1512
## 2.067662e-03 3.442874e-01 1.038355e-03 6.189304e-01 1.180651e-01 6.378437e-01
##          1513         1514         1515         1516         1517         1518
## 4.136563e-01 4.434148e-03 2.868254e-01 5.648339e-01 2.119650e-02 1.600879e-01
##          1519         1520         1521         1522         1523         1524
## 1.437371e-03 9.175067e-01 3.435640e-01 6.183644e-03 6.628433e-02 6.191096e-02
##          1525         1526         1527         1528         1529         1530
## 2.309995e-01 8.192878e-01 1.141464e-01 1.383113e-02 9.336766e-02 2.875635e-01
##          1531         1532         1533         1534         1535         1536
## 1.184211e-01 4.100956e-01 7.237642e-01 1.145294e-01 5.339749e-03 9.525637e-02
##          1537         1538         1539         1540         1541         1542
## 8.197456e-01 1.146376e-01 2.774824e-01 6.639250e-02 9.074595e-02 1.762266e-03
##          1543         1544         1545         1546         1547         1548
## 7.451857e-01 4.938573e-01 2.259755e-03 1.098554e-02 7.148493e-03 1.634795e-03
##          1549         1550         1551         1552         1553         1554
## 5.833420e-02 1.079916e-01 2.467143e-02 1.542857e-01 3.010417e-01 7.739980e-01
##          1555         1556         1557         1558         1559         1560
## 2.004223e-01 8.630905e-01 8.948830e-01 5.741554e-01 4.510754e-01 8.074441e-01
##          1561         1562         1563         1564         1565         1566
## 3.546708e-01 8.263184e-01 7.151705e-04 5.852583e-01 5.277572e-01 8.776913e-01
##          1567         1568         1569         1570         1571         1572
## 2.936070e-01 1.054054e-03 2.138018e-01 1.547558e-01 3.991427e-01 5.356489e-02
##          1573         1574         1575         1576         1577         1578
## 4.776817e-02 3.883176e-01 3.397582e-01 5.634863e-01 2.694278e-02 3.704571e-01
##          1579         1580         1581         1582         1583         1584
## 8.676402e-01 3.998844e-01 1.438542e-02 2.346121e-03 6.841455e-02 3.191576e-02
##          1585         1586         1587         1588         1589         1590
## 1.177602e-03 1.844365e-01 4.791716e-02 3.765893e-02 4.457893e-01 3.397582e-01
##          1591         1592         1593         1594         1595         1596
## 1.599392e-01 5.381849e-04 6.274692e-01 7.027726e-01 8.099749e-01 7.232165e-03
##          1597         1598         1599         1600         1601         1602
## 6.906306e-01 1.898397e-01 1.341222e-01 2.588317e-02 5.263587e-04 7.297920e-02
##          1603         1604         1605         1606         1607         1608
## 1.375511e-03 6.943293e-01 5.545621e-02 3.754754e-01 2.140109e-01 3.381802e-01
##          1609         1610         1611         1612         1613         1614
## 6.205662e-01 1.245007e-01 1.334085e-01 7.410733e-03 6.137530e-04 4.351888e-02
##          1615         1616         1617         1618         1619         1620
## 4.075744e-02 5.400491e-01 6.120274e-03 1.582424e-02 7.445992e-02 3.337175e-02
##          1621         1622         1623         1624         1625         1626
## 4.438873e-02 5.545621e-02 1.818020e-02 2.918389e-01 1.602086e-02 3.560317e-02
##          1627         1628         1629         1630         1631         1632
## 1.284616e-03 8.415488e-01 7.122414e-01 1.307320e-01 5.384347e-01 3.442080e-02
##          1633         1634         1635         1636         1637         1638
## 1.949608e-02 1.762427e-01 4.055896e-02 2.949195e-01 7.749359e-03 2.869127e-06
##          1639         1640         1641         1642         1643         1644
## 2.108343e-02 5.026840e-02 1.285564e-03 5.530475e-01 1.121855e-02 1.677002e-02
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##         1645         1646         1647         1648         1649         1650
## 5.707844e-01 1.462298e-03 1.903048e-02 9.205255e-03 1.216696e-02 3.050381e-02
##         1651         1652         1653         1654         1655         1656
## 5.500936e-03 8.229924e-01 3.885953e-02 2.200119e-01 2.691907e-02 4.629022e-02
##         1657         1658         1659         1660         1661         1662
## 7.941330e-02 1.186903e-01 3.433528e-01 7.108805e-01 5.684461e-03 1.942833e-01
##         1663         1664         1665         1666         1667         1668
## 9.096175e-03 2.423972e-01 7.346475e-03 2.778985e-01 1.767357e-04 6.256057e-01
##         1669         1670         1671         1672         1673         1674
## 1.212379e-01 6.368075e-02 2.774807e-01 3.824135e-02 7.341625e-03 4.909262e-02
##         1675         1676         1677         1678         1679         1680
## 6.866017e-02 2.524327e-02 7.709964e-02 2.970977e-02 2.571061e-02 8.905764e-01
##         1681         1682         1683         1684         1685         1686
## 2.487151e-01 7.763498e-01 2.999354e-02 5.155497e-03 3.433528e-01 6.822681e-02
##         1687         1688         1689         1690         1691         1692
## 4.475205e-03 4.851050e-03 1.366208e-03 5.605335e-01 1.979244e-02 3.261254e-02
##         1693         1694         1695         1696         1697         1698
## 4.287686e-04 2.223041e-02 4.159749e-02 6.280508e-01 1.785496e-01 4.951904e-01
##         1699         1700         1701         1702         1703         1704
## 1.882313e-01 6.581243e-04 1.847418e-02 1.211620e-02 6.399082e-01 1.241129e-01
##         1705         1706         1707         1708         1709         1710
## 7.595931e-01 8.202772e-01 4.954549e-04 8.405603e-01 8.289551e-02 2.752851e-01
##         1711         1712         1713         1714         1715         1716
## 3.975065e-02 7.624061e-02 6.616982e-02 5.103173e-01 7.601418e-01 2.642123e-01
##         1717         1718         1719         1720         1721         1722
## 2.832923e-01 1.124768e-03 2.762976e-01 1.418595e-02 3.464914e-01 3.851184e-02
##         1723         1724         1725         1726         1727         1728
## 7.607901e-01 2.822577e-01 4.586520e-03 1.467419e-01 5.498797e-01 7.597370e-01
##         1729         1730         1731         1732         1733         1734
## 4.524255e-01 9.111630e-02 1.147650e-02 1.595854e-02 4.205492e-01 6.755423e-01
##         1735         1736         1737         1738         1739         1740
## 8.930688e-02 2.558378e-02 2.463137e-03 3.894337e-01 9.501248e-03 6.929251e-01
##         1741         1742         1743         1744         1745         1746
## 6.020278e-01 2.837302e-03 3.340699e-01 6.986028e-01 7.163621e-01 1.437878e-01
##         1747         1748         1749         1750         1751         1752
## 3.207523e-01 3.490161e-03 8.407678e-02 5.601215e-02 5.943433e-01 1.257187e-01
##         1753         1754         1755         1756         1757         1758
## 6.274233e-01 7.918607e-02 7.275104e-01 6.674378e-02 6.929251e-01 4.699420e-02
##         1759         1760         1761         1762         1763         1764
## 2.321638e-02 6.318668e-01 3.917063e-01 5.978667e-01 3.691811e-01 7.620068e-01
##         1765         1766         1767         1768         1769         1770
## 7.258897e-01 7.511325e-03 6.236886e-01 8.280347e-01 1.034023e-01 2.282098e-02
##         1771         1772         1773         1774         1775         1776
## 5.845064e-02 7.258897e-01 1.466699e-01 6.304225e-01 1.018171e-03 1.026021e-01
##         1777         1778         1779         1780         1781         1782
## 1.665355e-01 8.241816e-01 8.139651e-02 3.040307e-01 6.708213e-01 3.020198e-01
##         1783         1784         1785         1786         1787         1788
## 8.603903e-01 1.217849e-02 1.024866e-01 8.403508e-02 2.514304e-01 7.996585e-01
##         1789         1790         1791         1792         1793         1794
## 7.350650e-01 2.454772e-02 6.839812e-02 9.429036e-02 1.137076e-02 1.052167e-01
##         1795         1796         1797         1798         1799         1800
## 7.220301e-01 9.660855e-02 7.173377e-01 8.749520e-02 4.296192e-01 8.115051e-01
##         1801         1802         1803         1804         1805         1806
## 6.871604e-03 2.731087e-02 1.053162e-02 8.903081e-01 8.582980e-01 5.056574e-02
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##         1807         1808         1809         1810         1811         1812
## 4.616989e-01 8.368194e-01 3.044085e-01 9.031193e-01 9.350207e-01 4.355837e-02
##         1813         1814         1815         1816         1817         1818
## 8.879379e-01 8.436116e-01 1.158839e-01 7.855020e-01 8.934354e-01 9.087984e-01
##         1819         1820         1821         1822         1823         1824
## 3.669404e-03 7.793812e-01 2.157344e-03 3.070912e-02 8.909468e-01 1.128925e-01
##         1825         1826         1827         1828         1829         1830
## 3.692706e-02 4.004973e-01 1.045919e-02 6.995341e-02 9.178210e-01 2.941859e-01
##         1831         1832         1833         1834         1835         1836
## 8.494494e-01 1.858997e-01 1.535163e-03 3.170667e-02 3.384144e-02 3.244367e-01
##         1837         1838         1839         1840         1841         1842
## 9.753484e-02 5.012056e-01 6.370983e-01 8.709855e-01 4.844618e-01 9.329635e-01
##         1843         1844         1845         1846         1847         1848
## 7.101760e-01 7.880664e-01 1.948599e-02 2.642119e-01 3.944497e-02 7.050661e-01
##         1849         1850         1851         1852         1853         1854
## 3.884296e-02 9.041537e-01 4.245697e-01 1.792169e-01 3.153121e-01 8.053643e-01
##         1855         1856         1857         1858         1859         1860
## 3.731466e-03 2.331067e-01 1.558648e-01 3.134721e-03 7.723871e-01 8.757678e-01
##         1861         1862         1863         1864         1865         1866
## 2.231012e-02 5.257708e-02 5.428873e-01 9.158390e-04 5.032573e-02 4.321177e-04
##         1867         1868         1869         1870         1871         1872
## 2.144378e-02 2.277979e-02 8.159707e-01 7.367016e-01 6.202785e-01 2.379468e-01
##         1873         1874         1875         1876         1877         1878
## 8.195268e-01 5.122746e-01 6.355819e-01 1.163107e-01 2.970597e-02 8.853381e-01
##         1879         1880         1881         1882         1883         1884
## 2.872250e-01 7.367016e-01 6.305040e-02 1.572314e-01 2.825704e-01 3.697572e-04
##         1885         1886         1887         1888         1889         1890
## 2.856847e-02 4.530720e-01 9.326036e-01 3.311151e-02 9.163270e-01 9.542217e-02
##         1891         1892         1893         1894         1895         1896
## 3.522493e-02 8.035858e-01 7.654309e-01 2.223596e-03 2.922225e-01 1.949445e-01
##         1897         1898         1899         1900         1901         1902
## 6.789588e-02 4.764778e-02 1.848917e-02 8.293609e-01 1.936960e-03 1.000712e-02
##         1903         1904         1905         1906         1907         1908
## 4.970276e-03 1.486978e-01 5.296865e-01 1.084638e-01 3.453874e-04 7.419418e-02
##         1909         1910         1911         1912         1913         1914
## 8.240927e-01 1.212001e-03 8.757678e-01 5.296865e-01 1.903311e-01 8.707014e-01
##         1915         1916         1917         1918         1919         1920
## 1.017259e-01 9.095714e-01 4.148062e-03 3.036607e-01 9.067819e-01 9.137784e-01
##         1921         1922         1923         1924         1925         1926
## 8.771047e-01 1.254276e-01 5.532383e-02 7.872978e-01 1.219053e-01 1.859487e-02
##         1927         1928         1929         1930         1931         1932
## 7.098039e-01 1.686488e-03 6.022526e-02 3.918436e-02 4.766566e-03 8.318468e-01
##         1933         1934         1935         1936         1937         1938
## 1.967924e-01 4.125513e-03 5.935057e-02 4.428371e-02 6.517862e-01 6.629483e-02
##         1939         1940         1941         1942         1943         1944
## 1.433027e-01 5.439162e-02 1.148581e-03 6.445541e-01 3.906272e-01 9.944004e-02
##         1945         1946         1947         1948         1949         1950
## 1.008283e-01 2.479691e-02 5.544873e-01 6.529139e-03 8.849152e-01 9.788339e-02
##         1951         1952         1953         1954         1955         1956
## 1.318569e-02 9.294329e-01 7.967405e-01 2.146270e-02 1.541940e-02 4.669018e-01
##         1957         1958         1959         1960         1961         1962
## 7.385424e-01 4.533640e-01 8.136256e-01 7.136366e-02 8.832925e-01 8.002692e-01
##         1963         1964         1965         1966         1967         1968
## 8.508892e-02 3.480692e-02 3.765893e-02 1.178876e-03 7.352330e-03 2.069184e-01
```

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##          1969          1970          1971          1972          1973          1974
## 1.302116e-01 2.547576e-02 6.327475e-01 5.776920e-04 8.074366e-01 8.406499e-01
##          1975          1976          1977          1978          1979          1980
## 5.026840e-02 2.309995e-01 1.872174e-03 2.522336e-02 9.483735e-01 9.210806e-02
##          1981          1982          1983          1984          1985          1986
## 7.412643e-01 6.566671e-02 1.799893e-01 1.025199e-01 2.404502e-01 3.223219e-02
##          1987          1988          1989          1990          1991          1992
## 7.042098e-02 8.257789e-02 7.114138e-01 1.328523e-01 1.832901e-01 9.023696e-01
##          1993          1994          1995          1996          1997          1998
## 3.104780e-03 7.563957e-01 3.344107e-02 4.905581e-01 6.409700e-01 8.858402e-01
##          1999          2000          2001          2002          2003          2004
## 2.069184e-01 1.352843e-01 1.613285e-01 3.842679e-01 3.454628e-02 3.253722e-01
##          2005          2006          2007          2008          2009          2010
## 5.531944e-01 2.367715e-01 6.105601e-03 1.094177e-01 7.929034e-01 1.015257e-01
##          2011          2012          2013          2014          2015          2016
## 1.619701e-01 2.096817e-03 3.728544e-02 5.533522e-02 1.366208e-03 8.664044e-01
##          2017          2018          2019          2020          2021          2022
## 1.565000e-01 2.853694e-04 5.610506e-02 1.589599e-01 9.085597e-01 4.333771e-01
##          2023          2024          2025          2026          2027          2028
## 1.599722e-01 1.346683e-01 5.930225e-01 3.458110e-02 7.959437e-01 5.254563e-02
##          2029          2030          2031          2032          2033          2034
## 7.706351e-02 5.924946e-01 3.314711e-02 8.283197e-01 3.967284e-01 8.682656e-01
##          2035          2036          2037          2038          2039          2040
## 1.166196e-02 2.097119e-02 7.101228e-02 8.477837e-02 8.646726e-01 5.808568e-01
##          2041          2042          2043          2044          2045          2046
## 3.289566e-01 8.858402e-01 8.873977e-04 5.632372e-03 1.985561e-01 8.066442e-01
##          2047          2048          2049          2050          2051          2052
## 4.777251e-01 8.804935e-01 4.635549e-01 1.478816e-01 2.574035e-01 1.478816e-01
##          2053          2054          2055          2056          2057          2058
## 4.656278e-02 9.535665e-04 1.045919e-02 7.114138e-01 4.835930e-03 8.603903e-01
##          2059          2060          2061          2062          2063          2064
## 2.353185e-01 1.064758e-03 1.017122e-02 8.406499e-01 5.740936e-01 1.850029e-01
##          2065          2066          2067          2068          2069          2070
## 4.713732e-01 1.744188e-01 8.542875e-03 1.554803e-01 7.279569e-01 7.812256e-02
##          2071          2072          2073          2074          2075          2076
## 4.902083e-02 8.218535e-01 6.156075e-03 2.384065e-01 2.364362e-01 1.583003e-01
##          2077          2078          2079          2080          2081          2082
## 5.842512e-01 8.342583e-01 9.896066e-02 1.183325e-03 5.247816e-01 7.426351e-02
##          2083          2084          2085          2086          2087          2088
## 2.325810e-01 3.326297e-01 9.388281e-01 8.265579e-01 1.586758e-02 1.290075e-01
##          2089          2090          2091          2092          2093          2094
## 5.855470e-01 5.394308e-01 1.592470e-01 8.458312e-02 7.705275e-01 8.546028e-01
##          2095          2096          2097          2098          2099          2100
## 8.100492e-01 1.420499e-03 8.162888e-01 6.444776e-04 4.096150e-01 4.476497e-01
##          2101          2102          2103          2104          2105          2106
## 4.340096e-02 4.423827e-02 1.148403e-03 9.837363e-04 2.816519e-02 6.773096e-01
##          2107          2108          2109          2110          2111          2112
## 5.381144e-01 6.800016e-01 5.067945e-02 5.819421e-01 1.594311e-02 2.512768e-02
##          2113          2114          2115          2116          2117          2118
## 8.002868e-01 6.377775e-04 5.426473e-02 4.860886e-01 1.906621e-03 3.512214e-02
##          2119          2120          2121          2122          2123          2124
## 7.734862e-01 6.402472e-01 1.478816e-01 7.592160e-01 7.506757e-01 3.875552e-01
##          2125          2126          2127          2128          2129          2130
## 5.156213e-01 8.100272e-03 1.665580e-03 9.184362e-01 2.701611e-01 3.873934e-02
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##          2131          2132          2133          2134          2135          2136
## 5.564451e-03 3.748286e-03 2.815551e-02 1.337242e-03 4.958699e-02 1.386216e-03
##          2137          2138          2139          2140          2141          2142
## 8.072833e-01 5.230756e-02 3.519068e-02 7.529205e-01 4.851433e-02 2.449999e-02
##          2143          2144          2145          2146          2147          2148
## 2.921035e-01 8.630333e-04 6.110147e-01 7.802678e-01 2.003268e-03 4.419271e-01
##          2149          2150          2151          2152          2153          2154
## 1.490782e-02 4.420108e-01 3.901671e-02 2.072613e-02 7.055949e-01 2.963069e-02
##          2155          2156          2157          2158          2159          2160
## 5.417511e-04 4.037204e-03 1.444302e-03 2.883115e-04 3.002125e-02 8.467056e-02
##          2161          2162          2163          2164          2165          2166
## 4.510418e-01 7.273738e-01 2.628107e-02 4.793714e-01 8.571506e-01 6.108639e-01
##          2167          2168          2169          2170          2171          2172
## 5.564451e-03 1.117303e-01 1.069903e-01 1.470503e-01 6.722001e-02 5.846737e-01
##          2173          2174          2175          2176          2177          2178
## 6.021133e-03 1.231391e-03 1.159104e-02 7.529205e-01 5.652430e-01 4.536345e-02
##          2179          2180          2181          2182          2183          2184
## 7.458389e-02 9.060417e-02 3.451634e-02 4.776252e-02 7.260695e-02 8.893671e-02
##          2185          2186          2187          2188          2189          2190
## 2.779584e-01 6.831440e-01 7.609893e-01 1.128843e-02 8.193147e-01 9.834308e-02
##          2191          2192          2193          2194          2195          2196
## 6.083307e-03 3.491059e-01 7.664394e-01 2.147093e-03 7.560921e-03 5.428466e-02
##          2197          2198          2199          2200          2201          2202
## 1.981738e-01 1.914589e-01 6.892520e-03 2.465366e-01 7.064369e-01 4.353560e-01
##          2203          2204          2205          2206          2207          2208
## 5.312139e-01 4.988274e-01 3.886888e-02 1.542857e-01 8.908573e-05 2.421165e-01
##          2209          2210          2211          2212          2213          2214
## 2.306294e-02 1.285857e-01 4.851433e-02 5.108164e-01 7.232165e-03 9.803015e-02
##          2215          2216          2217          2218          2219          2220
## 1.896405e-02 1.865065e-02 6.345836e-01 5.356830e-01 8.033884e-01 7.446344e-01
##          2221          2222          2223          2224          2225          2226
## 9.135584e-03 2.668548e-01 1.245533e-01 4.816367e-01 1.033884e-02 6.659435e-02
##          2227          2228          2229          2230          2231          2232
## 2.471546e-02 9.577676e-02 1.415084e-01 1.131392e-01 7.732685e-01 8.318655e-03
##          2233          2234          2235          2236          2237          2238
## 2.316265e-02 1.079289e-01 3.321299e-02 6.620829e-01 3.506460e-01 1.711375e-02
##          2239          2240          2241          2242          2243          2244
## 1.205512e-02 2.320275e-02 1.421949e-02 6.057140e-02 6.202209e-01 8.132958e-04
##          2245          2246          2247          2248          2249          2250
## 1.100175e-02 4.298888e-03 2.096034e-01 1.600958e-01 5.869316e-03 2.722136e-03
##          2251          2252          2253          2254          2255          2256
## 2.684592e-01 3.753081e-02 7.629896e-01 9.627136e-02 1.001917e-01 5.975530e-02
##          2257          2258          2259          2260          2261          2262
## 5.511109e-02 3.816812e-01 7.320524e-01 2.259941e-01 3.688518e-02 6.219734e-01
##          2263          2264          2265          2266          2267          2268
## 9.331904e-02 2.957577e-03 5.922018e-01 6.881519e-03 4.669389e-03 7.688544e-01
##          2269          2270          2271          2272          2273          2274
## 2.754356e-01 3.200194e-01 2.315384e-01 5.425858e-02 1.163002e-02 1.131925e-01
##          2275          2276          2277          2278          2279          2280
## 6.519934e-01 1.344034e-01 2.933222e-02 8.061192e-02 2.533196e-02 7.571702e-01
##          2281          2282          2283          2284          2285          2286
## 4.001979e-01 7.428058e-01 4.545097e-02 4.086502e-02 1.028425e-02 1.404833e-02
##          2287          2288          2289          2290          2291          2292
## 1.126551e-01 4.009508e-01 2.336098e-03 3.138042e-01 4.491640e-03 1.852122e-01
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##           2293          2294          2295          2296          2297          2298
## 6.929251e-01 1.080672e-02 3.766711e-04 5.665124e-02 1.994358e-01 1.164445e-01
##           2299          2300          2301          2302          2303          2304
## 3.801431e-02 1.621880e-02 2.079027e-03 6.297915e-02 8.692896e-01 1.296606e-01
##           2305          2306          2307          2308          2309          2310
## 5.026840e-02 5.422087e-02 1.859726e-01 1.147199e-02 1.777922e-03 8.000489e-01
##           2311          2312          2313          2314          2315          2316
## 1.391812e-01 1.726530e-03 1.834396e-01 2.560929e-02 7.646199e-01 1.434123e-03
##           2317          2318          2319          2320          2321          2322
## 1.980033e-02 3.566292e-01 7.777873e-01 7.777873e-01 7.994982e-01 9.992335e-03
##           2323          2324          2325          2326          2327          2328
## 5.738570e-01 6.986028e-01 7.596128e-02 7.820211e-01 6.345083e-03 6.872153e-02
##           2329          2330          2331          2332          2333          2334
## 5.765341e-01 8.257789e-02 1.077090e-01 9.180619e-02 8.038394e-01 2.821634e-01
##           2335          2336          2337          2338          2339          2340
## 4.475205e-03 1.746398e-02 5.919082e-01 2.729647e-03 1.981077e-01 2.688598e-01
##           2341          2342          2343          2344          2345          2346
## 7.915526e-01 9.423564e-02 6.065758e-01 3.679123e-02 6.795099e-02 3.969371e-01
##           2347          2348          2349          2350          2351          2352
## 9.582405e-03 8.266733e-02 9.292036e-02 5.555738e-03 1.981077e-01 2.384387e-01
##           2353          2354          2355          2356          2357          2358
## 3.156468e-02 2.661477e-01 2.421594e-02 1.398162e-02 3.192010e-02 6.515973e-01
##           2359          2360          2361          2362          2363          2364
## 6.929251e-01 3.334930e-03 2.840681e-01 2.129821e-01 8.666560e-01 3.207523e-01
##           2365          2366          2367          2368          2369          2370
## 1.882649e-01 6.500199e-01 7.673222e-01 1.593102e-01 7.220301e-01 7.645651e-02
##           2371          2372          2373          2374          2375          2376
## 5.003776e-02 2.810836e-02 8.905472e-02 5.026840e-02 5.284019e-01 8.325698e-01
##           2377          2378          2379          2380          2381          2382
## 1.427552e-01 2.333479e-01 1.018680e-01 1.955362e-01 2.034447e-02 1.931969e-02
##           2383          2384          2385          2386          2387          2388
## 2.165910e-02 4.717236e-01 6.986028e-01 2.607530e-02 2.865148e-01 3.069614e-02
##           2389          2390          2391          2392          2393          2394
## 7.578765e-01 8.274198e-02 6.586401e-03 3.475671e-01 2.245656e-01 2.245063e-02
##           2395          2396          2397          2398          2399          2400
## 7.094517e-01 2.938842e-01 6.783352e-01 7.044987e-01 8.603903e-01 8.603903e-01
##           2401          2402          2403          2404          2405          2406
## 6.067481e-02 1.560256e-01 1.693157e-01 1.955512e-01 3.108517e-03 1.431437e-03
##           2407          2408          2409          2410          2411          2412
## 4.829950e-03 7.679971e-01 6.446571e-02 1.476478e-01 6.981180e-03 8.767698e-01
##           2413          2414          2415          2416          2417          2418
## 1.424181e-03 3.469274e-03 6.339666e-02 4.494528e-01 8.453449e-04 1.115598e-01
##           2419          2420          2421          2422          2423          2424
## 9.349488e-01 6.914407e-02 4.629949e-01 6.307581e-03 9.098454e-01 5.516172e-01
##           2425          2426          2427          2428          2429          2430
## 1.043989e-01 4.371281e-03 3.358397e-01 6.362296e-02 4.932286e-01 5.179542e-01
##           2431          2432          2433          2434          2435          2436
## 3.249937e-01 6.945858e-01 6.318358e-02 8.177631e-01 2.880212e-01 8.831417e-01
##           2437          2438          2439          2440          2441          2442
## 3.144540e-02 8.965597e-01 4.060809e-01 9.661795e-02 7.843865e-01 7.692669e-01
##           2443          2444          2445          2446          2447          2448
## 1.705864e-03 5.866069e-02 8.559128e-03 8.089762e-01 8.836337e-01 1.936008e-01
##           2449          2450          2451          2452          2453          2454
## 3.808495e-02 4.660035e-02 8.146360e-01 3.827971e-02 5.555733e-03 8.880940e-02
```

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##         2455         2456         2457         2458         2459         2460
## 8.861664e-01 9.164944e-01 8.230247e-01 1.349919e-01 9.087984e-01 8.823357e-01
##         2461         2462         2463         2464         2465         2466
## 3.267918e-01 3.547268e-01 8.849152e-01 9.087984e-01 8.499849e-01 6.609844e-01
##         2467         2468         2469         2470         2471         2472
## 8.076995e-01 9.280939e-05 4.615833e-01 3.268295e-01 5.112098e-02 2.229806e-01
##         2473         2474         2475         2476         2477         2478
## 3.565441e-03 7.875589e-01 8.535349e-01 8.554369e-01 5.462454e-02 1.544165e-03
##         2479         2480         2481         2482         2483         2484
## 1.876312e-01 3.463769e-03 4.278147e-02 9.114599e-01 1.115683e-01 7.277117e-01
##         2485         2486         2487         2488         2489         2490
## 8.430417e-01 8.144401e-01 1.451980e-01 9.210806e-02 4.257357e-02 7.446839e-01
##         2491         2492         2493         2494         2495         2496
## 1.116058e-01 4.633607e-01 6.965713e-01 6.310681e-02 9.123760e-01 6.515885e-03
##         2497         2498         2499         2500         2501         2502
## 6.757833e-01 1.219509e-01 6.672258e-01 7.532265e-04 1.150814e-03 3.485573e-01
##         2503         2504         2505         2506         2507         2508
## 3.274847e-02 5.644390e-04 6.433001e-02 9.087984e-01 1.751519e-01 3.779815e-04
##         2509         2510         2511         2512         2513         2514
## 3.134373e-01 9.383980e-04 3.649204e-02 1.476117e-03 6.131854e-01 3.932894e-02
##         2515         2516         2517         2518         2519         2520
## 8.792078e-01 6.660724e-01 4.496864e-01 3.720502e-02 1.561264e-01 2.138225e-01
##         2521         2522         2523         2524         2525         2526
## 1.173935e-01 7.372205e-01 8.428196e-02 8.609179e-02 5.495158e-02 8.791667e-01
##         2527         2528         2529         2530         2531         2532
## 1.385282e-01 3.910294e-02 4.765257e-02 9.185587e-01 8.771047e-01 5.404763e-02
##         2533         2534         2535         2536         2537         2538
## 2.624624e-01 8.205811e-01 4.865143e-02 1.904942e-01 2.733505e-01 1.565324e-03
##         2539         2540         2541         2542         2543         2544
## 1.261794e-01 1.172245e-01 9.067584e-01 1.111417e-01 3.179727e-01 8.730942e-02
##         2545         2546         2547         2548         2549         2550
## 5.875651e-02 8.957878e-01 2.085852e-04 8.063545e-01 2.770496e-01 1.059418e-01
##         2551         2552         2553         2554         2555         2556
## 2.372571e-03 9.415857e-02 3.169915e-01 8.477197e-01 8.053643e-01 5.747105e-02
##         2557         2558         2559         2560         2561         2562
## 2.898306e-01 9.946034e-03 7.778971e-01 8.757678e-01 7.516784e-01 3.388117e-04
##         2563         2564         2565         2566         2567         2568
## 1.648195e-02 5.532383e-02 8.957878e-01 1.082383e-01 2.791319e-01 4.372259e-02
##         2569         2570         2571         2572         2573         2574
## 2.487550e-03 2.318463e-01 1.753956e-01 1.476117e-03 9.037510e-01 8.927445e-01
##         2575         2576         2577         2578         2579         2580
## 8.643865e-01 3.654667e-01 4.767647e-03 1.117860e-01 8.596736e-02 7.551655e-01
##         2581         2582         2583         2584         2585         2586
## 8.617731e-01 8.190911e-02 6.903075e-01 7.968172e-01 4.527091e-01 1.155759e-01
##         2587         2588         2589         2590         2591         2592
## 4.919088e-04 2.440239e-03 1.242554e-01 7.478279e-01 5.128449e-01 2.460131e-01
##         2593         2594         2595         2596         2597         2598
## 1.225453e-03 5.840322e-01 7.625760e-02 9.087984e-01 1.564564e-01 7.968172e-01
##         2599         2600         2601         2602         2603         2604
## 3.592112e-01 1.857910e-03 7.615562e-01 6.734023e-05 5.807300e-01 1.606908e-01
##         2605         2606         2607         2608         2609         2610
## 7.120952e-02 1.436917e-01 7.558654e-02 6.763553e-02 1.890645e-02 9.049440e-01
##         2611         2612         2613         2614         2615         2616
## 6.557595e-02 4.543344e-01 5.555525e-01 6.823266e-02 7.613543e-01 5.532383e-02
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##         2617         2618         2619         2620         2621         2622
## 8.771047e-01 7.342843e-01 8.730725e-02 7.745500e-01 5.712266e-02 8.097262e-01
##         2623         2624         2625         2626         2627         2628
## 1.080736e-02 3.430265e-04 6.506830e-02 7.723871e-01 5.623263e-02 1.925363e-02
##         2629         2630         2631         2632         2633         2634
## 9.185877e-01 8.850222e-01 6.253572e-01 7.996195e-03 8.757678e-01 1.708299e-02
##         2635         2636         2637         2638         2639         2640
## 5.116592e-01 2.015225e-02 8.627922e-01 6.915050e-01 4.064845e-02 2.049228e-01
##         2641         2642         2643         2644         2645         2646
## 2.785699e-03 7.771622e-01 7.973203e-01 4.430596e-01 2.500151e-01 5.728080e-01
##         2647         2648         2649         2650         2651         2652
## 8.078833e-01 8.395533e-01 5.829095e-01 7.954360e-01 5.329843e-02 8.147822e-01
##         2653         2654         2655         2656         2657         2658
## 5.675775e-01 6.985790e-02 2.119789e-02 7.675887e-01 1.009669e-01 7.077462e-03
##         2659         2660         2661         2662         2663         2664
## 7.469752e-01 4.056861e-01 2.589960e-02 2.139822e-01 7.558654e-02 6.999923e-01
##         2665         2666         2667         2668         2669         2670
## 8.986552e-02 6.529852e-02 9.009376e-01 1.100654e-01 2.480750e-02 1.164046e-01
##         2671         2672         2673         2674         2675         2676
## 5.828945e-02 4.582172e-04 2.917287e-02 8.233753e-02 9.266973e-02 1.009669e-01
##         2677         2678         2679         2680         2681         2682
## 3.081841e-02 1.451980e-01 3.542430e-01 5.099232e-01 9.108436e-01 3.041323e-02
##         2683         2684         2685         2686         2687         2688
## 3.940725e-02 6.083145e-01 2.109375e-02 1.158839e-01 7.648984e-01 4.119714e-02
##         2689         2690         2691         2692         2693         2694
## 2.921263e-01 9.308274e-01 4.533640e-01 8.899305e-01 2.819351e-02 1.977951e-01
##         2695         2696         2697         2698         2699         2700
## 9.003338e-01 2.258167e-02 8.372412e-02 3.374161e-02 1.149237e-01 5.946077e-02
##         2701         2702         2703         2704         2705         2706
## 2.309137e-01 1.725105e-03 4.088875e-01 3.836334e-02 5.988165e-02 8.879822e-03
##         2707         2708         2709         2710         2711         2712
## 7.709964e-02 1.187590e-01 5.022491e-01 8.927445e-01 8.445519e-01 6.856423e-01
##         2713         2714         2715         2716         2717         2718
## 3.030194e-04 8.817649e-01 1.924826e-01 3.332524e-01 6.426119e-01 9.766894e-02
##         2719         2720         2721         2722         2723         2724
## 1.407697e-01 6.242498e-01 1.536881e-01 7.200471e-01 3.786644e-01 8.101400e-01
##         2725         2726         2727         2728         2729         2730
## 1.337593e-02 5.938269e-02 2.070079e-02 3.962783e-02 2.468116e-03 5.967904e-02
##         2731         2732         2733         2734         2735         2736
## 4.829711e-02 1.209383e-03 2.786551e-01 7.616989e-02 2.632201e-01 8.778781e-03
##         2737         2738         2739         2740         2741         2742
## 6.662832e-02 7.283956e-04 2.344294e-03 1.841669e-01 2.990641e-01 1.438088e-01
##         2743         2744         2745         2746         2747         2748
## 6.778534e-01 9.086723e-01 5.924529e-01 1.108149e-01 6.521872e-01 2.990641e-01
##         2749         2750         2751         2752         2753         2754
## 3.367529e-01 8.965793e-01 7.992210e-01 8.253064e-01 1.494365e-01 9.232496e-03
##         2755         2756         2757         2758         2759         2760
## 3.890509e-01 4.362411e-02 5.536502e-01 1.411865e-01 9.252109e-03 5.117399e-02
##         2761         2762         2763         2764         2765         2766
## 2.043425e-01 2.184189e-01 8.568407e-01 3.527531e-03 7.347898e-01 1.670599e-01
##         2767         2768         2769         2770         2771         2772
## 8.036603e-01 5.593141e-01 6.189502e-01 2.493881e-01 6.311308e-03 3.218908e-01
##         2773         2774         2775         2776         2777         2778
## 2.430331e-01 8.368194e-01 6.669995e-02 1.670599e-01 1.558171e-02 9.204488e-02
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##          2779          2780          2781          2782          2783          2784
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##          2785          2786          2787          2788          2789          2790
## 2.768702e-01 3.310120e-01 4.970219e-03 7.412643e-01 6.563377e-02 1.595316e-02
##          2791          2792          2793          2794          2795          2796
## 9.210806e-02 5.163922e-03 4.453997e-01 7.913115e-01 1.860013e-01 7.732685e-01
##          2797          2798          2799          2800          2801          2802
## 8.241816e-01 4.552794e-02 1.080726e-02 6.999923e-01 5.694986e-01 2.620716e-01
##          2803          2804          2805          2806          2807          2808
## 9.511750e-05 8.370268e-01 1.252228e-01 1.296115e-01 5.298709e-01 1.787238e-02
##          2809          2810          2811          2812          2813          2814
## 9.660769e-01 4.762012e-01 2.759225e-02 4.615336e-01 1.213201e-02 1.216696e-02
##          2815          2816          2817          2818          2819          2820
## 5.082391e-02 7.315516e-01 2.854662e-01 7.922460e-01 6.033124e-01 7.723816e-02
##          2821          2822          2823          2824          2825          2826
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##          2827          2828          2829          2830          2831          2832
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##          2833          2834          2835          2836          2837          2838
## 5.052706e-02 3.048957e-02 3.195170e-01 2.524327e-02 3.689928e-01 9.203048e-01
##          2839          2840          2841          2842          2843          2844
## 6.446571e-02 8.771903e-02 8.988513e-01 8.771903e-02 7.296973e-02 8.092311e-04
##          2845          2846          2847          2848          2849          2850
## 7.855856e-01 8.134342e-03 8.410256e-03 2.549691e-02 7.329549e-01 1.779827e-03
##          2851          2852          2853          2854          2855          2856
## 3.500304e-01 2.497215e-01 1.781110e-01 9.837363e-04 8.641135e-01 1.615192e-01
##          2857          2858          2859          2860          2861          2862
## 1.603230e-02 1.313482e-02 7.446153e-01 1.509416e-01 6.189304e-01 3.495139e-02
##          2863          2864          2865          2866          2867          2868
## 8.400767e-03 1.343066e-01 2.995305e-01 2.726072e-01 7.640600e-01 6.801948e-03
##          2869          2870          2871          2872          2873          2874
## 7.458389e-02 7.125372e-01 6.312577e-01 8.228611e-01 4.284725e-01 2.060915e-02
##          2875          2876          2877          2878          2879          2880
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## 9.025352e-04 7.084556e-01 2.523142e-02 7.317348e-01 7.567272e-01 1.785054e-01
##          2887          2888          2889          2890          2891          2892
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##          2893          2894          2895          2896          2897          2898
## 3.778164e-02 4.117944e-01 1.978118e-01 1.059479e-02 4.358119e-01 1.561987e-03
##          2899          2900          2901          2902          2903          2904
## 4.645894e-01 4.905421e-01 8.074441e-01 8.465356e-03 1.609666e-03 4.184883e-02
##          2905          2906          2907          2908          2909          2910
## 7.479768e-01 3.183137e-02 7.124690e-02 3.081963e-01 4.764485e-03 4.197407e-01
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##          2917          2918          2919          2920          2921          2922
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##          2923          2924          2925          2926          2927          2928
## 3.598493e-03 5.004795e-01 6.902922e-01 8.201714e-03 4.195798e-03 7.518136e-04
##          2929          2930          2931          2932          2933          2934
## 1.463792e-01 7.428269e-01 3.228435e-01 1.662639e-01 1.365478e-01 1.214825e-01
##          2935          2936          2937          2938          2939          2940
## 3.864585e-01 7.983553e-03 3.813541e-04 4.784402e-01 1.894071e-02 8.804975e-01
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##           2941         2942         2943         2944         2945         2946
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##           2953         2954         2955         2956         2957         2958
## 1.892442e-01 1.648993e-01 2.047011e-01 7.322943e-01 5.048507e-02 4.229108e-02
##           2959         2960         2961         2962         2963         2964
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## 4.757946e-01 1.467919e-04 1.332433e-02 1.687847e-04 1.311661e-01 7.889498e-02
##           2971         2972         2973         2974         2975         2976
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##           2977         2978         2979         2980         2981         2982
## 5.557305e-02 4.665822e-02 2.509785e-01 5.320421e-01 4.550849e-01 2.138646e-01
##           2983         2984         2985         2986         2987         2988
## 1.047577e-01 5.565808e-03 1.894851e-01 2.374338e-01 5.381849e-04 1.493065e-01
##           2989         2990         2991         2992         2993         2994
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##           2995         2996         2997         2998         2999         3000
## 2.415981e-01 7.468839e-01 3.679032e-02 1.784001e-03 8.910680e-04 6.748296e-02
##           3001         3002         3003         3004         3005         3006
## 3.431445e-01 1.088484e-02 3.798708e-04 1.190004e-02 4.764288e-01 1.152043e-03
##           3007         3008         3009         3010         3011         3012
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##           3013         3014         3015         3016         3017         3018
## 1.429971e-01 6.446571e-02 6.181741e-01 1.366208e-03 2.208765e-01 4.728662e-03
##           3019         3020         3021         3022         3023         3024
## 1.228635e-03 2.730965e-02 9.177382e-03 7.645482e-01 1.158530e-01 6.217636e-01
##           3025         3026         3027         3028         3029         3030
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##           3031         3032         3033         3034         3035         3036
## 1.198548e-01 1.748093e-01 1.520606e-02 9.880731e-02 1.867493e-01 3.092035e-03
##           3037         3038         3039         3040         3041         3042
## 2.200119e-01 1.713723e-02 8.371803e-02 6.687300e-03 4.343216e-02 1.115792e-01
##           3043         3044         3045         3046         3047         3048
## 6.662309e-01 3.665141e-01 7.816484e-01 8.047401e-01 7.755437e-02 2.916467e-01
##           3049         3050         3051         3052         3053         3054
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##           3055         3056         3057         3058         3059         3060
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##           3061         3062         3063         3064         3065         3066
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##           3067         3068         3069         3070         3071         3072
## 7.254888e-01 3.210557e-02 7.235352e-03 4.260054e-01 3.631317e-02 7.284439e-01
##           3073         3074         3075         3076         3077         3078
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##           3079         3080         3081         3082         3083         3084
## 6.560971e-01 1.182359e-01 3.560554e-01 8.064794e-02 1.553066e-01 5.064290e-01
##           3085         3086         3087         3088         3089         3090
## 6.221415e-03 7.148281e-01 2.827955e-02 2.374191e-02 6.052688e-02 7.820211e-01
##           3091         3092         3093         3094         3095         3096
## 1.913567e-01 4.213613e-01 2.317952e-01 6.860280e-03 1.693309e-02 4.617179e-01
##           3097         3098         3099         3100         3101         3102
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##          3109          3110          3111          3112          3113          3114
## 3.093090e-03 2.606013e-03 2.010897e-01 5.312268e-02 5.162288e-02 3.059134e-01
##          3115          3116          3117          3118          3119          3120
## 5.881486e-01 6.014470e-02 5.928947e-02 3.253722e-01 1.006405e-01 8.150582e-01
##          3121          3122          3123          3124          3125          3126
## 1.779700e-02 8.678805e-01 7.437100e-01 1.903925e-01 5.080422e-03 7.478967e-01
##          3127          3128          3129          3130          3131          3132
## 3.460726e-03 1.544731e-02 6.420399e-01 4.820744e-01 5.331066e-04 1.216615e-01
##          3133          3134          3135          3136          3137          3138
## 7.627699e-03 7.809726e-01 1.817358e-03 6.123152e-01 1.389345e-01 6.518604e-01
##          3139          3140          3141          3142          3143          3144
## 3.873934e-02 2.314552e-02 4.063902e-01 8.494767e-04 7.551655e-01 3.042063e-01
##          3145          3146          3147          3148          3149          3150
## 3.241222e-02 7.509012e-01 4.590120e-01 8.087060e-01 7.647862e-02 8.511390e-01
##          3151          3152          3153          3154          3155          3156
## 4.460562e-03 9.339951e-01 8.310806e-01 6.513249e-03 2.757980e-05 6.189474e-01
##          3157          3158          3159          3160          3161          3162
## 6.374529e-02 3.954904e-01 8.634083e-01 1.176820e-01 5.463040e-01 3.089366e-01
##          3163          3164          3165          3166          3167          3168
## 1.141233e-01 5.887906e-01 6.457214e-02 2.009107e-01 7.306552e-02 7.961904e-01
##          3169          3170          3171          3172          3173          3174
## 8.759292e-01 3.165252e-02 8.849152e-01 2.425723e-01 1.970178e-01 2.376940e-01
##          3175          3176          3177          3178          3179          3180
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##          3181          3182          3183          3184          3185          3186
## 2.106892e-01 6.003543e-01 1.549895e-02 9.680461e-04 4.994553e-01 1.597330e-03
##          3187          3188          3189          3190          3191          3192
## 9.519872e-01 2.313669e-02 4.914431e-03 1.061352e-01 6.486548e-03 1.202900e-01
##          3193          3194          3195          3196          3197          3198
## 2.632414e-02 1.516851e-03 6.983997e-02 1.779173e-01 1.639691e-01 8.495766e-02
##          3199          3200          3201          3202          3203          3204
## 8.519507e-02 2.444097e-01 5.840322e-01 3.219788e-01 3.202496e-03 5.252834e-02
##          3205          3206          3207          3208          3209          3210
## 3.340300e-02 2.668540e-03 6.842717e-01 8.349616e-02 9.156923e-03 1.996899e-01
##          3211          3212          3213          3214          3215          3216
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##          3217          3218          3219          3220          3221          3222
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##          3223          3224          3225          3226          3227          3228
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##          3229          3230          3231          3232          3233          3234
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##          3241          3242          3243          3244          3245          3246
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##          3247          3248          3249          3250          3251          3252
## 5.740145e-01 3.870470e-01 1.652024e-01 1.192122e-01 9.732611e-02 3.792927e-04
##          3253          3254          3255          3256          3257          3258
## 7.107824e-02 5.535305e-01 6.215023e-01 1.819807e-03 3.091073e-01 7.399512e-03
##          3259          3260          3261          3262          3263          3264
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## 9.141866e-01 1.459699e-01 1.908596e-01 3.304895e-02 8.816612e-01 6.965713e-01
##           3277          3278          3279          3280          3281          3282
## 2.397847e-04 9.087984e-01 6.756701e-01 6.755484e-01 8.691851e-01 9.890227e-04
##           3283          3284          3285          3286          3287          3288
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##           3289          3290          3291          3292          3293          3294
## 2.497414e-01 8.293609e-01 1.924826e-01 1.094697e-01 3.517636e-01 9.203580e-02
##           3295          3296          3297          3298          3299          3300
## 3.829884e-01 3.576225e-02 3.409869e-02 8.751004e-01 1.284072e-02 2.067360e-02
##           3301          3302          3303          3304          3305          3306
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##           3307          3308          3309          3310          3311          3312
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##           3313          3314          3315          3316          3317          3318
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##           3319          3320          3321          3322          3323          3324
## 6.106313e-02 2.855904e-01 9.556281e-02 4.507538e-03 8.761348e-01 3.717994e-01
##           3325          3326          3327          3328          3329          3330
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##           3331          3332          3333          3334          3335          3336
## 3.664693e-02 9.101642e-01 5.883793e-02 4.401930e-01 5.418545e-02 5.309647e-01
##           3337          3338          3339          3340          3341          3342
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##           3343          3344          3345          3346          3347          3348
## 3.797960e-03 5.203359e-01 6.740475e-02 1.171546e-01 5.243037e-02 1.925727e-04
##           3349          3350          3351          3352          3353          3354
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##           3355          3356          3357          3358          3359          3360
## 2.836978e-01 7.561051e-01 4.927152e-02 9.788339e-02 1.362591e-03 1.606514e-01
##           3361          3362          3363          3364          3365          3366
## 8.555301e-01 8.731785e-02 1.827410e-01 9.180738e-01 1.569807e-01 6.393340e-02
##           3367          3368          3369          3370          3371          3372
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##           3379          3380          3381          3382          3383          3384
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##           3385          3386          3387          3388          3389          3390
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##           3397          3398          3399          3400          3401          3402
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##           3409          3410          3411          3412          3413          3414
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##           3415          3416          3417          3418          3419          3420
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##           3421          3422          3423          3424          3425          3426
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##         3487          3488          3489          3490          3491          3492
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##         3577          3578          3579          3580          3581          3582
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##         3583          3584          3585          3586          3587          3588
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##           3607         3608         3609         3610         3611         3612
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##           3613         3614         3615         3616         3617         3618
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##           3619         3620         3621         3622         3623         3624
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##           3625         3626         3627         3628         3629         3630
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##           3631         3632         3633         3634         3635         3636
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##           3643         3644         3645         3646         3647         3648
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##          3793         3794         3795         3796         3797         3798
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##          4051          4052          4053          4054          4055          4056
## 6.588026e-04 4.148257e-02 2.123915e-01 1.688028e-02 3.742018e-02 1.484838e-02
##          4057          4058          4059          4060          4061          4062
## 8.329830e-01 9.393226e-02 3.638767e-01 4.287380e-02 4.016681e-02 1.366043e-01
##          4063          4064          4065          4066          4067          4068
## 1.851069e-01 2.422660e-01 5.573944e-03 3.106499e-02 1.081616e-01 1.032035e-02
##          4069          4070          4071          4072          4073          4074
## 7.051086e-01 7.713948e-01 1.042281e-01 6.947170e-02 5.026840e-02 7.904372e-01
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##         4075          4076          4077          4078          4079          4080
## 1.860120e-01 4.718127e-02 1.932611e-03 2.296881e-02 1.839478e-01 1.656149e-01
##         4081          4082          4083          4084          4085          4086
## 6.670861e-02 2.056398e-02 8.500912e-03 2.589960e-02 5.929971e-01 1.566557e-01
##         4087          4088          4089          4090          4091          4092
## 6.576865e-01 1.586826e-03 1.527584e-01 3.215263e-03 3.415097e-01 5.781375e-02
##         4093          4094          4095          4096          4097          4098
## 4.681355e-02 9.836300e-02 9.029318e-01 2.572506e-01 8.241816e-01 8.825450e-01
##         4099          4100          4101          4102          4103          4104
## 1.168210e-01 3.477144e-01 8.270790e-01 3.707818e-02 1.341010e-01 1.947345e-02
##         4105          4106          4107          4108          4109          4110
## 7.062236e-04 1.287156e-01 1.703897e-01 7.339971e-01 2.593011e-04 9.129526e-02
##         4111          4112          4113          4114          4115          4116
## 7.170759e-02 4.928056e-01 8.754426e-01 1.399908e-03 5.908447e-02 1.024903e-01
##         4117          4118          4119          4120          4121          4122
## 5.908642e-01 6.999923e-01 7.389017e-01 8.927551e-01 3.930219e-02 9.956207e-03
##         4123          4124          4125          4126          4127          4128
## 8.581688e-01 6.877407e-01 4.414153e-01 1.435055e-03 1.293332e-03 1.700881e-01
##         4129          4130          4131          4132          4133          4134
## 1.019774e-02 2.162712e-03 1.115792e-01 3.280593e-03 2.354224e-02 3.985591e-01
##         4135          4136          4137          4138          4139          4140
## 8.339437e-02 2.356899e-01 4.615833e-01 2.942064e-03 6.576745e-02 5.417511e-04
##         4141          4142          4143          4144          4145          4146
## 1.303452e-01 2.936070e-01 1.814977e-02 3.703001e-03 2.769433e-03 1.045919e-02
##         4147          4148          4149          4150          4151          4152
## 8.068506e-01 9.096807e-02 2.272277e-02 8.285145e-02 2.366554e-01 6.796512e-01
##         4153          4154          4155          4156          4157          4158
## 7.828023e-01 1.353867e-03 2.523142e-02 5.602949e-01 3.031594e-01 8.771903e-02
##         4159          4160          4161          4162          4163          4164
## 2.742549e-01 2.328990e-01 8.909361e-01 3.468060e-01 6.341178e-01 7.826255e-01
##         4165          4166          4167          4168          4169          4170
## 2.106442e-03 8.743367e-02 2.257649e-02 7.906522e-01 9.351154e-01 2.400915e-01
##         4171          4172          4173          4174          4175          4176
## 8.019895e-02 4.059442e-03 3.675878e-01 3.073695e-03 9.381300e-01 7.916098e-04
##         4177          4178          4179          4180          4181          4182
## 1.148403e-03 1.180373e-02 8.440357e-01 8.771903e-02 2.878975e-03 1.410836e-03
##         4183          4184          4185          4186          4187          4188
## 6.649589e-01 6.565937e-01 4.723504e-02 9.720851e-03 1.593758e-01 5.723049e-01
##         4189          4190          4191          4192          4193          4194
## 5.700246e-01 1.126842e-01 8.399299e-01 7.044276e-01 8.764838e-02 3.785383e-02
##         4195          4196          4197          4198          4199          4200
## 4.526834e-01 1.640549e-02 5.197847e-02 6.773096e-01 3.966476e-02 1.707098e-03
##         4201          4202          4203          4204          4205          4206
## 1.654980e-01 8.513691e-02 3.275076e-01 2.195106e-02 3.343455e-01 2.008064e-04
##         4207          4208          4209          4210          4211          4212
## 7.453957e-01 6.800016e-01 2.386457e-02 8.235804e-04 3.789125e-02 5.992669e-02
##         4213          4214          4215          4216          4217          4218
## 3.272205e-01 1.804415e-03 1.493307e-03 9.791181e-02 5.923431e-04 9.586909e-04
##         4219          4220          4221          4222          4223          4224
## 2.244211e-01 1.560537e-01 1.555120e-03 6.476977e-01 6.800016e-01 1.029868e-01
##         4225          4226          4227          4228          4229          4230
## 5.846737e-01 3.435984e-04 8.100272e-03 5.052648e-01 1.415084e-01 1.978890e-03
##         4231          4232          4233          4234          4235          4236
## 8.782035e-03 5.521012e-01 3.135216e-04 1.593145e-01 1.517813e-01 1.027317e-02
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##         4237         4238         4239         4240         4241         4242
## 3.495273e-01 3.137086e-01 2.643904e-03 5.763521e-03 7.426661e-01 3.047972e-02
##         4243         4244         4245         4246         4247         4248
## 4.738754e-01 1.304669e-01 3.936696e-03 1.684727e-02 9.150952e-03 4.117256e-02
##         4249         4250         4251         4252         4253         4254
## 6.687148e-01 2.010897e-01 9.915124e-04 5.925596e-01 1.279320e-01 1.195530e-01
##         4255         4256         4257         4258         4259         4260
## 1.392628e-01 1.245007e-01 7.399167e-03 6.001567e-01 6.237701e-04 1.289802e-02
##         4261         4262         4263         4264         4265         4266
## 7.232165e-03 5.829083e-03 2.178712e-01 2.041283e-01 1.124768e-03 9.749943e-02
##         4267         4268         4269         4270         4271         4272
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##         4273         4274         4275         4276         4277         4278
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##         4291         4292         4293         4294         4295         4296
## 8.676402e-01 1.340592e-01 2.796703e-03 8.454895e-02 1.256970e-01 1.034743e-02
##         4297         4298         4299         4300         4301         4302
## 8.080900e-01 2.661155e-03 8.080900e-01 6.943293e-01 8.934366e-03 8.080900e-01
##         4303         4304         4305         4306         4307         4308
## 1.211067e-02 1.199465e-02 3.481439e-01 1.986378e-01 6.377196e-01 1.434152e-01
##         4309         4310         4311         4312         4313         4314
## 8.496625e-02 4.009242e-01 2.317106e-01 1.924476e-01 2.115986e-02 3.998844e-01
##         4315         4316         4317         4318         4319         4320
## 8.465356e-03 2.827955e-02 1.313482e-02 2.444083e-01 1.914589e-01 6.205662e-01
##         4321         4322         4323         4324         4325         4326
## 3.526886e-03 1.287192e-01 8.571371e-01 1.387407e-01 1.266879e-01 3.639778e-01
##         4327         4328         4329         4330         4331         4332
## 1.040579e-03 2.312478e-01 8.055587e-01 1.627294e-03 3.873934e-02 1.168941e-01
##         4333         4334         4335         4336         4337         4338
## 5.192598e-04 2.579318e-02 9.635194e-03 3.195262e-01 8.388574e-02 1.057933e-03
##         4339         4340         4341         4342         4343         4344
## 1.612999e-03 2.656973e-03 3.794811e-02 5.247262e-03 1.341010e-01 5.652578e-03
##         4345         4346         4347         4348         4349         4350
## 2.564914e-01 3.873419e-02 8.339437e-02 1.861225e-01 3.991724e-02 2.052261e-03
##         4351         4352         4353         4354         4355         4356
## 7.055949e-01 2.834177e-01 4.224119e-02 4.190222e-01 3.989766e-03 9.158471e-03
##         4357         4358         4359         4360         4361         4362
## 8.627235e-02 7.124690e-02 1.383113e-02 1.426945e-02 5.237544e-02 7.681667e-02
##         4363         4364         4365         4366         4367         4368
## 3.662174e-03 1.479997e-02 3.991724e-02 7.402390e-03 3.235000e-02 7.875247e-03
##         4369         4370         4371         4372         4373         4374
## 3.977676e-03 1.095245e-03 4.039195e-03 6.979610e-02 6.332290e-03 7.438411e-02
##         4375         4376         4377         4378         4379         4380
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##         4381         4382         4383         4384         4385         4386
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##         4387         4388         4389         4390         4391         4392
## 2.298887e-03 1.050917e-02 6.199370e-03 8.724410e-03 2.054023e-02 1.083201e-01
##         4393         4394         4395         4396         4397         4398
## 2.833967e-03 3.074867e-01 4.769540e-01 4.767639e-01 1.527235e-01 8.213635e-03
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## 7.450028e-02 1.701665e-02 3.023750e-01 5.620597e-04 8.104659e-02 5.725777e-03
##          4405          4406          4407          4408          4409          4410
## 3.324454e-03 1.234341e-02 6.698521e-02 1.121855e-02 4.454597e-02 2.103527e-02
##          4411          4412          4413          4414          4415          4416
## 2.435240e-01 2.432853e-02 6.840364e-01 9.158532e-03 3.807494e-03 3.562893e-02
##          4417          4418          4419          4420          4421          4422
## 8.927728e-03 2.168707e-01 1.446417e-01 5.615561e-02 6.511160e-03 6.446571e-02
##          4423          4424          4425          4426          4427          4428
## 1.940521e-02 1.512145e-03 2.853292e-02 4.214834e-02 1.010453e-03 1.599273e-03
##          4429          4430          4431          4432          4433          4434
## 1.005488e-03 2.311596e-03 4.596309e-03 1.801708e-01 9.541154e-03 4.009792e-01
##          4435          4436          4437          4438          4439          4440
## 2.464526e-03 1.357160e-02 7.519211e-01 6.695566e-03 1.536232e-03 4.715561e-02
##          4441          4442          4443          4444          4445          4446
## 1.081664e-01 4.511396e-01 1.326223e-02 8.678805e-01 2.354077e-02 6.379351e-01
##          4447          4448          4449          4450          4451          4452
## 1.077404e-04 1.992225e-02 5.374418e-01 6.790756e-01 2.562342e-01 2.700318e-02
##          4453          4454          4455          4456          4457          4458
## 6.540861e-02 3.323413e-03 3.673161e-03 6.342692e-03 4.638308e-02 7.483135e-02
##          4459          4460          4461          4462          4463          4464
## 7.850507e-01 8.655136e-01 2.463137e-03 3.975065e-02 7.499143e-01 4.447713e-01
##          4465          4466          4467          4468          4469          4470
## 4.003522e-03 3.294963e-02 1.677948e-02 8.654790e-01 3.331607e-02 1.612478e-02
##          4471          4472          4473          4474          4475          4476
## 1.159912e-01 1.295797e-02 5.601610e-01 2.168636e-01 7.657694e-04 2.930169e-02
##          4477          4478          4479          4480          4481          4482
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##          4483          4484          4485          4486          4487          4488
## 3.944328e-01 8.617476e-03 1.020555e-01 3.065093e-01 9.249283e-02 5.923773e-01
##          4489          4490          4491          4492          4493          4494
## 2.921263e-01 3.611283e-02 3.767804e-01 3.786203e-03 5.156454e-02 6.769118e-01
##          4495          4496          4497          4498          4499          4500
## 4.495108e-02 6.326343e-04 1.159912e-01 1.657312e-01 2.314552e-02 7.397007e-01
##          4501          4502          4503          4504          4505          4506
## 9.252109e-03 9.022545e-03 6.268614e-01 8.730440e-01 5.815882e-01 6.345746e-01
##          4507          4508          4509          4510          4511          4512
## 4.787229e-01 2.830267e-02 2.064539e-01 1.211620e-02 9.729287e-03 2.570359e-01
##          4513          4514          4515          4516          4517          4518
## 5.820808e-03 4.733750e-03 3.688261e-01 8.513108e-01 3.168463e-01 1.833504e-01
##          4519          4520          4521          4522          4523          4524
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##          4525          4526          4527          4528          4529          4530
## 1.163058e-01 7.038917e-01 1.025520e-01 6.442466e-02 1.100916e-03 9.266658e-01
##          4531          4532          4533          4534          4535          4536
## 1.590278e-01 1.405605e-02 5.242097e-01 9.409488e-01 9.273407e-01 8.068174e-01
##          4537          4538          4539          4540          4541          4542
## 8.511164e-01 9.333854e-01 9.488917e-01 7.472352e-02 4.635263e-02 8.761957e-02
##          4543          4544          4545          4546          4547          4548
## 3.582103e-01 7.139114e-01 1.451980e-01 4.089610e-02 5.206141e-03 1.075483e-02
##          4549          4550          4551          4552          4553          4554
## 3.237003e-02 1.333399e-01 9.108789e-01 9.512906e-01 1.871520e-02 8.030259e-01
##          4555          4556          4557          4558          4559          4560
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##         4567         4568         4569         4570         4571         4572
## 5.875651e-02 4.168661e-01 7.460768e-01 6.802183e-01 9.028164e-01 1.267721e-01
##         4573         4574         4575         4576         4577         4578
## 4.817114e-01 1.396918e-02 8.265095e-01 3.898071e-03 4.675799e-02 3.823918e-01
##         4579         4580         4581         4582         4583         4584
## 3.618535e-02 2.838064e-01 5.248920e-02 1.495974e-01 7.446839e-01 5.994121e-03
##         4585         4586         4587         4588         4589         4590
## 1.219391e-01 6.201949e-01 2.480750e-02 9.098835e-01 1.062206e-01 8.495766e-02
##         4591         4592         4593         4594         4595         4596
## 6.083365e-03 6.039821e-02 9.301453e-02 3.930745e-02 9.077997e-01 5.893251e-02
##         4597         4598         4599         4600         4601         4602
## 1.195268e-03 1.833504e-01 6.876986e-03 7.371275e-01 8.515624e-02 2.891762e-01
##         4603         4604         4605         4606         4607         4608
## 1.451980e-01 7.068080e-01 7.437359e-01 1.237219e-02 3.688893e-02 5.504772e-03
##         4609         4610         4611         4612         4613         4614
## 1.833504e-01 8.582980e-01 5.417374e-01 8.274899e-01 1.529469e-01 8.447406e-01
##         4615         4616         4617         4618         4619         4620
## 3.632283e-02 7.529348e-01 6.035281e-02 1.590278e-01 2.993517e-01 2.868998e-03
##         4621         4622         4623         4624         4625         4626
## 8.737144e-01 1.800997e-01 8.532029e-02 1.349316e-01 2.458176e-03 8.013233e-01
##         4627         4628         4629         4630         4631         4632
## 1.563472e-03 8.157900e-01 4.390064e-02 2.155936e-01 8.293609e-01 4.410179e-03
##         4633         4634         4635         4636         4637         4638
## 1.177174e-01 4.133212e-02 1.076689e-01 3.022577e-02 2.087560e-02 3.980150e-03
##         4639         4640         4641         4642         4643         4644
## 3.183470e-01 5.464643e-01 5.965554e-01 2.812436e-03 3.508827e-04 1.404490e-02
##         4645         4646         4647         4648         4649         4650
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##         4651         4652         4653         4654         4655         4656
## 5.641396e-03 7.756886e-01 6.378424e-01 3.866964e-02 1.291223e-02 8.776242e-01
##         4657         4658         4659         4660         4661         4662
## 1.093784e-01 4.810379e-03 8.986552e-02 7.711607e-01 7.416619e-01 1.558149e-01
##         4663         4664         4665         4666         4667         4668
## 4.741220e-02 1.557425e-01 4.810379e-03 8.334529e-02 8.913489e-02 2.745840e-01
##         4669         4670         4671         4672         4673         4674
## 6.067891e-03 6.410987e-03 8.066841e-02 9.272207e-02 9.157479e-02 1.657080e-01
##         4675         4676         4677         4678         4679         4680
## 1.998392e-01 1.320967e-01 2.797904e-01 9.260221e-01 3.091073e-01 1.478176e-01
##         4681         4682         4683         4684         4685         4686
## 4.465695e-03 8.699604e-01 8.182701e-02 2.378627e-01 1.018972e-03 6.057066e-02
##         4687         4688         4689         4690         4691         4692
## 5.679655e-02 1.141233e-01 1.020193e-01 5.150235e-02 7.711876e-02 1.765929e-01
##         4693         4694         4695         4696         4697         4698
## 6.588696e-02 4.473276e-01 4.498692e-02 7.519146e-01 4.494366e-03 2.827494e-02
##         4699         4700         4701         4702         4703         4704
## 2.651944e-01 4.322646e-03 8.103367e-01 1.088109e-01 4.635632e-01 9.571900e-04
##         4705         4706         4707         4708         4709         4710
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##         4711         4712         4713         4714         4715         4716
## 7.049271e-01 1.602208e-01 2.242911e-01 7.454517e-02 1.088109e-01 6.734281e-01
##         4717         4718         4719         4720         4721         4722
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##          4735          4736          4737          4738          4739          4740
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##          4741          4742          4743          4744          4745          4746
## 1.823903e-03 1.357439e-01 8.289899e-02 1.849017e-01 3.745316e-03 6.108610e-01
##          4747          4748          4749          4750          4751          4752
## 5.551144e-02 3.933071e-02 2.917287e-02 1.702381e-01 1.723770e-03 6.692867e-01
##          4753          4754          4755          4756          4757          4758
## 6.201949e-01 4.928779e-02 1.175760e-03 1.198499e-02 1.180896e-01 9.279235e-02
##          4759          4760          4761          4762          4763          4764
## 1.704631e-03 1.432558e-02 1.172245e-01 5.664730e-02 1.084638e-01 2.707219e-01
##          4765          4766          4767          4768          4769          4770
## 1.199776e-01 8.308712e-02 5.858725e-02 1.377197e-01 4.500082e-01 1.147272e-02
##          4771          4772          4773          4774          4775          4776
## 8.777832e-02 5.141593e-03 1.634217e-01 1.251995e-03 3.348179e-03 4.591168e-02
##          4777          4778          4779          4780          4781          4782
## 6.201949e-01 6.558165e-01 1.534272e-03 5.144764e-01 2.111336e-04 2.925201e-01
##          4783          4784          4785          4786          4787          4788
## 1.622227e-02 6.284408e-02 8.002692e-01 3.264357e-04 4.284936e-01 1.261937e-02
##          4789          4790          4791          4792          4793          4794
## 8.136361e-01 3.749798e-03 4.424814e-02 8.784051e-02 2.800683e-01 1.021776e-01
##          4795          4796          4797          4798          4799          4800
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##          4801          4802          4803          4804          4805          4806
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##          4807          4808          4809          4810          4811          4812
## 9.300922e-02 3.409317e-02 8.780791e-01 5.541354e-02 1.151164e-01 5.002113e-01
##          4813          4814          4815          4816          4817          4818
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##          4819          4820          4821          4822          4823          4824
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##          4825          4826          4827          4828          4829          4830
## 1.113260e-02 1.936960e-03 4.927152e-02 7.759313e-02 1.093673e-03 1.866139e-01
##          4831          4832          4833          4834          4835          4836
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##          4843          4844          4845          4846          4847          4848
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##          4861          4862          4863          4864          4865          4866
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##          4867          4868          4869          4870          4871          4872
## 1.292501e-01 6.763553e-02 8.992283e-01 6.158127e-02 1.619954e-01 8.068174e-01
##          4873          4874          4875          4876          4877          4878
## 8.476870e-01 1.251883e-02 7.432315e-03 8.017509e-01 1.631631e-03 1.518202e-01
##          4879          4880          4881          4882          4883          4884
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##          4897          4898          4899          4900          4901          4902
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##          4903          4904          4905          4906          4907          4908
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##          4921          4922          4923          4924          4925          4926
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##          4945          4946          4947          4948          4949          4950
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## 5.869093e-03 1.013418e-03 6.045996e-01 1.023686e-01 8.580475e-01 4.526834e-01
##          4975          4976          4977          4978          4979          4980
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##          5035          5036          5037          5038          5039          5040
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##          5041          5042          5043          5044          5045          5046
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##          5227         5228         5229         5230         5231         5232
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##          5257         5258         5259         5260         5261         5262
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## 4.799333e-03 5.197682e-04 1.231267e-02 7.462955e-02 9.501248e-03 2.475703e-04
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##        5413         5414         5415         5416         5417         5418
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## 3.408969e-02 1.080213e-03 1.062908e-02 2.273195e-01 5.787600e-02 2.189913e-02
##        5449         5450         5451         5452         5453         5454
## 3.167529e-02 6.252363e-01 3.835574e-02 1.349316e-01 1.523250e-01 5.366906e-04
##        5455         5456         5457         5458         5459         5460
## 1.288199e-01 6.566009e-03 1.174318e-01 8.040251e-03 1.161967e-02 1.285532e-02
##        5461         5462         5463         5464         5465         5466
## 1.426214e-02 1.786048e-02 7.944023e-01 1.242554e-01 8.922204e-02 6.777859e-01
##        5467         5468         5469         5470         5471         5472
## 1.058191e-01 2.360387e-01 5.994121e-03 8.242318e-02 1.724917e-03 3.374161e-02
##        5473         5474         5475         5476         5477         5478
## 1.301556e-01 6.688642e-02 8.428825e-02 7.409697e-01 8.181057e-01 2.711708e-02
##        5479         5480         5481         5482         5483         5484
## 8.063981e-01 2.496613e-04 5.616858e-02 4.494276e-03 6.612650e-01 7.678699e-01
##        5485         5486         5487         5488         5489         5490
## 9.617668e-06 1.833504e-01 1.164948e-02 2.053823e-01 6.657762e-01 4.497676e-03
##        5491         5492         5493         5494         5495         5496
## 4.769650e-02 4.365989e-02 5.140666e-01 1.643608e-04 7.971091e-02 8.087900e-02
##        5497         5498         5499         5500         5501         5502
## 7.050016e-02 7.558654e-02 1.171546e-01 2.910612e-01 3.613407e-02 3.920601e-02
##        5503         5504         5505         5506         5507         5508
## 5.350501e-01 1.130032e-01 1.172245e-01 7.311158e-01 8.668175e-01 6.788841e-03
##        5509         5510         5511         5512         5513         5514
## 2.590552e-02 2.402400e-03 2.217289e-02 1.559960e-03 8.155814e-02 1.975352e-01
##        5515         5516         5517         5518         5519         5520
## 1.826193e-02 8.346578e-01 3.170457e-03 1.013464e-01 3.215600e-01 1.190107e-02
##        5521         5522         5523         5524         5525         5526
## 6.327475e-01 1.056360e-02 8.688955e-01 9.270682e-04 3.021789e-01 6.486637e-03
##        5527         5528         5529         5530         5531         5532
## 7.636679e-04 7.853501e-01 8.797787e-01 8.647111e-02 8.559872e-02 3.732485e-02
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##          5533          5534          5535          5536          5537          5538
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##          5539          5540          5541          5542          5543          5544
## 1.887836e-03 1.213647e-01 7.239727e-02 7.540312e-01 2.039642e-01 7.877000e-04
##          5545          5546          5547          5548          5549          5550
## 7.745500e-01 7.745500e-01 1.389757e-01 1.595434e-03 1.397989e-01 5.468222e-02
##          5551          5552          5553          5554          5555          5556
## 5.996739e-02 3.870904e-01 1.097780e-01 5.166521e-02 8.133893e-01 1.613785e-01
##          5557          5558          5559          5560          5561          5562
## 1.386162e-01 3.918607e-03 5.954877e-03 2.043341e-02 7.757571e-01 4.188314e-02
##          5563          5564          5565          5566          5567          5568
## 1.057287e-01 9.066860e-01 9.350102e-01 1.657080e-01 1.395683e-01 4.725683e-01
##          5569          5570          5571          5572          5573          5574
## 7.730718e-01 4.163871e-01 9.548674e-02 4.978513e-04 6.057895e-01 1.597330e-03
##          5575          5576          5577          5578          5579          5580
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##          5581          5582          5583          5584          5585          5586
## 5.933960e-02 1.019683e-01 5.644390e-04 5.712266e-02 5.048697e-02 4.927152e-02
##          5587          5588          5589          5590          5591          5592
## 1.841425e-01 2.023753e-02 3.331799e-03 5.386973e-01 6.763553e-02 3.563221e-01
##          5593          5594          5595          5596          5597          5598
## 1.301666e-01 1.349316e-01 2.635966e-01 1.521333e-02 1.164663e-01 2.472373e-01
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##          5611          5612          5613          5614          5615          5616
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##          5617          5618          5619          5620          5621          5622
## 2.783073e-02 1.263404e-01 2.811700e-01 3.993320e-05 1.581138e-01 8.063824e-02
##          5623          5624          5625          5626          5627          5628
## 1.297188e-01 5.532383e-02 1.084638e-01 2.340233e-02 1.609554e-01 2.835580e-02
##          5629          5630          5631          5632          5633          5634
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##          5635          5636          5637          5638          5639          5640
## 8.293609e-01 2.778051e-04 8.039390e-02 6.059025e-01 1.084638e-01 8.777832e-02
##          5641          5642          5643          5644          5645          5646
## 2.703816e-03 2.343553e-02 3.576225e-02 1.121275e-01 1.577606e-03 9.463927e-02
##          5647          5648          5649          5650          5651          5652
## 2.872482e-01 1.613785e-01 4.949270e-03 2.744286e-01 1.701665e-02 4.425854e-03
##          5653          5654          5655          5656          5657          5658
## 2.195756e-01 1.042275e-01 8.091893e-02 5.289815e-02 4.546779e-01 2.215511e-01
##          5659          5660          5661          5662          5663          5664
## 1.099249e-01 9.771765e-03 1.613785e-01 2.546772e-02 5.968990e-03 8.173296e-01
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##          5671          5672          5673          5674          5675          5676
## 4.276713e-03 1.843586e-02 5.702492e-02 5.669563e-04 9.041269e-01 1.250350e-01
##          5677          5678          5679          5680          5681          5682
## 1.150728e-02 8.050951e-01 1.810375e-02 7.367016e-01 8.825552e-01 2.426231e-02
##          5683          5684          5685          5686          5687          5688
## 8.874057e-01 1.084638e-01 3.423494e-01 8.912568e-01 3.567884e-04 2.242911e-01
##          5689          5690          5691          5692          5693          5694
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##           5701          5702          5703          5704          5705          5706
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##           5707          5708          5709          5710          5711          5712
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##           5713          5714          5715          5716          5717          5718
## 2.588229e-01 7.544400e-01 5.551144e-02 3.668335e-03 3.530523e-02 5.157643e-03
##           5719          5720          5721          5722          5723          5724
## 6.811294e-01 2.526933e-02 2.936854e-03 5.439162e-02 6.699292e-01 6.519512e-03
##           5725          5726          5727          5728          5729          5730
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##           5731          5732          5733          5734          5735          5736
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##           5737          5738          5739          5740          5741          5742
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##           5743          5744          5745          5746          5747          5748
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##           5749          5750          5751          5752          5753          5754
## 6.983997e-02 1.037182e-02 4.732701e-02 8.858402e-01 8.924548e-01 6.074236e-03
##           5755          5756          5757          5758          5759          5760
## 1.429971e-01 5.773243e-03 5.491491e-02 1.799893e-01 4.863059e-02 8.685802e-01
##           5761          5762          5763          5764          5765          5766
## 1.076102e-01 2.736439e-02 4.943339e-02 1.302116e-01 6.566671e-02 1.803682e-02
##           5767          5768          5769          5770          5771          5772
## 2.176135e-01 9.314905e-02 5.216656e-02 4.128071e-02 1.508806e-02 9.039476e-03
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##           5779          5780          5781          5782          5783          5784
## 8.346578e-01 8.150582e-01 3.727202e-02 4.190222e-01 6.160640e-03 1.825764e-02
##           5785          5786          5787          5788          5789          5790
## 5.711697e-02 3.231155e-02 1.703897e-01 2.195443e-01 7.297940e-01 8.270790e-01
##           5791          5792          5793          5794          5795          5796
## 2.473109e-01 5.767975e-03 4.021741e-03 5.773718e-01 6.252363e-01 9.906174e-02
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##           5803          5804          5805          5806          5807          5808
## 6.266753e-02 5.694986e-01 2.573340e-02 2.056171e-04 4.130625e-03 5.147980e-01
##           5809          5810          5811          5812          5813          5814
## 6.883270e-01 7.843556e-03 2.693068e-02 8.626534e-01 2.527751e-03 3.064428e-02
##           5815          5816          5817          5818          5819          5820
## 6.741258e-02 8.204594e-04 6.390466e-03 8.531736e-01 6.472503e-02 9.542375e-02
##           5821          5822          5823          5824          5825          5826
## 1.981798e-03 4.128664e-01 2.398380e-02 1.307679e-01 3.053444e-03 1.975352e-01
##           5827          5828          5829          5830          5831          5832
## 4.992713e-03 1.139345e-01 3.558826e-04 6.994416e-04 6.948244e-04 4.306849e-04
##           5833          5834          5835          5836          5837          5838
## 2.512953e-04 3.290820e-03 1.633105e-01 7.539416e-01 2.442839e-03 4.334075e-01
##           5839          5840          5841          5842          5843          5844
## 3.280243e-01 8.253064e-01 2.501527e-02 7.644216e-01 8.260101e-02 5.602180e-01
##           5845          5846          5847          5848          5849          5850
## 1.715240e-02 2.191371e-03 2.607662e-01 1.155171e-02 7.412643e-01 1.168580e-01
##           5851          5852          5853          5854          5855          5856
## 3.775204e-01 5.119685e-01 1.459595e-02 1.047030e-02 5.766748e-04 2.641187e-01
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## 5.957729e-02  5.500451e-01  3.137804e-01  1.888762e-03  1.383113e-02  1.320118e-01
##           5863          5864          5865          5866          5867          5868
## 6.857733e-02  5.178826e-03  8.130844e-02  5.825068e-02  7.506757e-01  3.945308e-01
##           5869          5870          5871          5872          5873          5874
## 2.470338e-03  2.013746e-02  1.033187e-01  1.137420e-03  5.300803e-01  2.950883e-03
##           5875          5876          5877          5878          5879          5880
## 2.328990e-01  8.085598e-01  4.318650e-02  2.005717e-04  1.718030e-01  6.726029e-01
##           5881          5882          5883          5884          5885          5886
## 7.820414e-02  6.737747e-01  7.589725e-02  7.816654e-02  4.423827e-02  1.065715e-01
##           5887          5888          5889          5890          5891          5892
## 1.004810e-01  3.471477e-02  4.474491e-01  1.952199e-03  5.052648e-01  3.595736e-01
##           5893          5894          5895          5896          5897          5898
## 8.808051e-02  7.244721e-01  3.051649e-02  8.303845e-02  5.217023e-01  1.156967e-01
##           5899          5900          5901          5902          5903          5904
## 2.032912e-01  4.464340e-01  7.115634e-02  5.725771e-03  9.791593e-02  2.182273e-03
##           5905          5906          5907          5908          5909          5910
## 5.586402e-01  8.085099e-01  8.516759e-01  1.344063e-04  1.446421e-02  1.143734e-02
##           5911          5912          5913          5914          5915          5916
## 7.750143e-02  5.934264e-01  2.438561e-02  9.500835e-02  4.606605e-02  5.415372e-02
##           5917          5918          5919          5920          5921          5922
## 6.807088e-04  9.632103e-03  5.871209e-04  4.231535e-03  1.334069e-02  6.811986e-02
##           5923          5924          5925          5926          5927          5928
## 6.495165e-02  7.244721e-01  1.631748e-03  2.030059e-03  1.034279e-01  2.293345e-02
##           5929          5930          5931          5932          5933          5934
## 1.181439e-02  1.136130e-01  3.287794e-02  1.294940e-03  3.030332e-01  6.563377e-02
##           5935          5936          5937          5938          5939          5940
## 5.896166e-01  1.415084e-01  2.520662e-02  2.528748e-01  2.694278e-02  5.882514e-01
##           5941          5942          5943          5944          5945          5946
## 1.226808e-01  2.271313e-01  1.929420e-02  1.780795e-03  6.163364e-02  3.802825e-03
##           5947          5948          5949          5950          5951          5952
## 7.456218e-01  2.238422e-01  1.651013e-02  1.777922e-03  8.241816e-01  5.652430e-01
##           5953          5954          5955          5956          5957          5958
## 4.801278e-02  2.117976e-01  2.589680e-03  3.253722e-01  7.667372e-03  1.856825e-02
##           5959          5960          5961          5962          5963          5964
## 6.001567e-01  5.805358e-03  2.534246e-01  3.326923e-03  7.045206e-03  4.161776e-03
##           5965          5966          5967          5968          5969          5970
## 7.489276e-01  1.141773e-02  1.589599e-01  8.701075e-01  7.218026e-01  3.631583e-01
##           5971          5972          5973          5974          5975          5976
## 3.853948e-03  4.350533e-01  1.580719e-02  1.898640e-01  6.632067e-02  3.456295e-01
##           5977          5978          5979          5980          5981          5982
## 7.998328e-02  2.547576e-02  4.613940e-01  1.043161e-02  6.677040e-03  1.170090e-01
##           5983          5984          5985          5986          5987          5988
## 1.568977e-01  3.891903e-01  1.246613e-02  7.025735e-02  5.718295e-01  1.492215e-01
##           5989          5990          5991          5992          5993          5994
## 1.792024e-04  2.280467e-01  8.571371e-01  7.731727e-01  1.825938e-02  2.546381e-03
##           5995          5996          5997          5998          5999          6000
## 6.740190e-01  9.514232e-04  5.016094e-01  3.674502e-03  4.366890e-02  5.955274e-04
##           6001          6002          6003          6004          6005          6006
## 2.975889e-03  7.760978e-04  3.959583e-01  2.704438e-01  2.506980e-01  8.487406e-02
##           6007          6008          6009          6010          6011          6012
## 1.166196e-02  1.865082e-01  7.961062e-04  5.912082e-04  3.512082e-10  1.149720e-01
##           6013          6014          6015          6016          6017          6018
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## 1.481232e-02 2.234070e-01 6.943293e-01 6.274218e-01 1.208757e-01 2.553540e-02
##        6037        6038        6039        6040        6041        6042
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##        6055        6056        6057        6058        6059        6060
## 7.511923e-03 1.721702e-03 1.464677e-02 6.281999e-03 5.489976e-01 8.821917e-04
##        6061        6062        6063        6064        6065        6066
## 4.174612e-02 1.119885e-03 2.542379e-03 4.638687e-03 4.469178e-02 1.015322e-02
##        6067        6068        6069        6070        6071        6072
## 1.201358e-03 1.270796e-01 9.860211e-03 7.069717e-02 6.446571e-02 1.028333e-02
##        6073        6074        6075        6076        6077        6078
## 2.533195e-02 2.054023e-02 3.935205e-06 1.206122e-05 4.291850e-02 3.340699e-01
##        6079        6080        6081        6082        6083        6084
## 4.632560e-03 1.232317e-03 8.442692e-02 1.132838e-01 7.529205e-01 6.561016e-03
##        6085        6086        6087        6088        6089        6090
## 3.502293e-01 1.576275e-01 7.214569e-01 5.840873e-02 1.320669e-01 2.758427e-01
##        6091        6092        6093        6094        6095        6096
## 2.258712e-02 3.433528e-01 7.960886e-01 3.427164e-02 2.497623e-01 1.975275e-01
##        6097        6098        6099        6100        6101        6102
## 6.599914e-02 3.254601e-02 2.759328e-02 3.562824e-01 1.472337e-01 9.741806e-03
##        6103        6104        6105        6106        6107        6108
## 1.132690e-01 8.305657e-03 2.274410e-03 1.560267e-01 5.313115e-01 6.796381e-01
##        6109        6110        6111        6112        6113        6114
## 6.981604e-03 2.302399e-01 1.950363e-01 1.404833e-02 1.571650e-02 2.607829e-03
##        6115        6116        6117        6118        6119        6120
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##        6121        6122        6123        6124        6125        6126
## 2.848868e-03 3.185752e-03 9.892727e-06 5.556299e-01 3.694708e-01 8.154902e-02
##        6127        6128        6129        6130        6131        6132
## 2.678623e-03 5.294279e-02 6.077895e-01 7.725219e-02 1.417601e-02 2.558390e-02
##        6133        6134        6135        6136        6137        6138
## 6.236866e-01 1.127703e-02 2.472516e-01 1.927627e-02 3.342846e-02 1.830883e-01
##        6139        6140        6141        6142        6143        6144
## 2.208339e-01 8.692896e-01 6.136526e-01 5.868188e-04 5.917538e-01 1.567052e-01
##        6145        6146        6147        6148        6149        6150
## 1.086728e-01 1.574554e-01 9.305086e-03 7.343266e-03 8.273808e-01 9.554480e-03
##        6151        6152        6153        6154        6155        6156
## 3.476916e-01 1.903048e-02 7.709225e-01 6.848773e-01 7.619831e-01 5.556436e-02
##        6157        6158        6159        6160        6161        6162
## 2.165713e-02 7.781596e-01 1.231708e-01 2.719225e-03 3.365775e-03 2.801113e-01
##        6163        6164        6165        6166        6167        6168
## 1.231708e-01 8.089205e-01 3.095967e-01 2.791511e-01 7.717023e-01 6.839812e-02
##        6169        6170        6171        6172        6173        6174
## 2.257443e-01 5.780738e-01 2.834316e-02 1.081689e-02 4.496263e-01 4.520518e-03
##        6175        6176        6177        6178        6179        6180
## 1.885961e-02 9.690190e-03 9.863047e-02 6.253807e-01 7.619831e-01 9.423564e-02
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##           6187          6188          6189          6190          6191          6192
## 9.906174e-02 7.988389e-03 1.813003e-01 1.917654e-01 7.783202e-01 5.387163e-01
##           6193          6194          6195          6196          6197          6198
## 4.514616e-01 8.241816e-01 2.587922e-01 2.595984e-01 3.307361e-03 3.160248e-01
##           6199          6200          6201          6202          6203          6204
## 3.212123e-02 5.761930e-02 1.359536e-02 5.219808e-01 7.627699e-03 5.994797e-01
##           6205          6206          6207          6208          6209          6210
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##           6211          6212          6213          6214          6215          6216
## 6.403797e-01 1.404026e-01 3.324800e-02 1.203264e-02 7.945225e-03 5.105175e-03
##           6217          6218          6219          6220          6221          6222
## 8.968527e-01 1.579906e-02 6.957236e-02 7.561886e-01 1.635661e-01 1.772622e-02
##           6223          6224          6225          6226          6227          6228
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##           6229          6230          6231          6232          6233          6234
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##           6235          6236          6237          6238          6239          6240
## 4.089610e-02 1.633032e-02 1.833504e-01 4.089610e-02 4.294967e-01 9.163270e-01
##           6241          6242          6243          6244          6245          6246
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##           6247          6248          6249          6250          6251          6252
## 2.075720e-02 2.071025e-01 3.665487e-02 9.049806e-01 1.170367e-01 9.198215e-01
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##           6259          6260          6261          6262          6263          6264
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##           6265          6266          6267          6268          6269          6270
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##           6271          6272          6273          6274          6275          6276
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##           6307          6308          6309          6310          6311          6312
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##           6313          6314          6315          6316          6317          6318
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##           6319          6320          6321          6322          6323          6324
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##           6325          6326          6327          6328          6329          6330
## 9.087773e-01 8.030984e-02 1.558742e-01 1.316696e-01 1.465533e-02 4.531808e-02
##           6331          6332          6333          6334          6335          6336
## 1.035433e-01 4.851554e-01 3.917511e-02 2.719658e-02 5.334648e-01 1.127627e-04
##           6337          6338          6339          6340          6341          6342
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## 8.091893e-02 5.621196e-02 8.757678e-01 7.751753e-01 1.039847e-02 6.237303e-02
##          6355          6356          6357          6358          6359          6360
## 3.567959e-03 8.184840e-01 5.624729e-02 6.751440e-03 6.070688e-04 8.961621e-01
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##          6373          6374          6375          6376          6377          6378
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##          6379          6380          6381          6382          6383          6384
## 1.975753e-02 2.433108e-01 1.891641e-02 6.923609e-01 1.244489e-02 1.514310e-01
##          6385          6386          6387          6388          6389          6390
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## 3.249937e-01 8.687417e-01 8.907830e-01 1.188206e-03 7.076183e-04 1.780259e-04
##          6403          6404          6405          6406          6407          6408
## 3.831632e-03 5.479414e-01 7.551655e-01 4.883137e-03 7.638104e-01 1.242554e-01
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##          6415          6416          6417          6418          6419          6420
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##          6421          6422          6423          6424          6425          6426
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##          6427          6428          6429          6430          6431          6432
## 1.690551e-02 2.201361e-01 7.807467e-01 7.357802e-01 7.076615e-01 3.905885e-01
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##          6445          6446          6447          6448          6449          6450
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##          6451          6452          6453          6454          6455          6456
## 5.232897e-03 2.189383e-01 3.134721e-03 6.678709e-02 9.869702e-03 2.188728e-02
##          6457          6458          6459          6460          6461          6462
## 7.038527e-01 2.065402e-02 4.426960e-02 1.472807e-01 1.558002e-02 5.060366e-01
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## 5.838631e-02 2.267253e-01 1.155109e-01 7.629268e-01 9.036849e-01 1.436238e-01
##          6469          6470          6471          6472          6473          6474
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##          6475          6476          6477          6478          6479          6480
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##          6481          6482          6483          6484          6485          6486
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##          6487          6488          6489          6490          6491          6492
## 6.035281e-02 1.045231e-05 9.337623e-04 3.267869e-01 5.429331e-02 8.464743e-01
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##        6523          6524          6525          6526          6527          6528
## 1.941558e-01 5.994121e-03 4.531808e-02 1.575738e-02 8.416386e-02 5.837725e-03
##        6529          6530          6531          6532          6533          6534
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##        6535          6536          6537          6538          6539          6540
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##        6541          6542          6543          6544          6545          6546
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##        6547          6548          6549          6550          6551          6552
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##        6553          6554          6555          6556          6557          6558
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##        6559          6560          6561          6562          6563          6564
## 8.703132e-02 1.932611e-03 3.781515e-03 6.688786e-02 6.001567e-01 5.767342e-03
##        6565          6566          6567          6568          6569          6570
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##        6571          6572          6573          6574          6575          6576
## 3.253722e-01 2.154427e-02 1.111335e-02 5.986146e-02 1.533384e-02 6.452510e-01
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##        6607          6608          6609          6610          6611          6612
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##        6619          6620          6621          6622          6623          6624
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##        6625          6626          6627          6628          6629          6630
## 7.888201e-01 8.834369e-01 1.646087e-01 5.109700e-01 8.252462e-03 8.146206e-03
##        6631          6632          6633          6634          6635          6636
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##           6679         6680         6681         6682         6683         6684
## 8.163503e-01 4.174612e-02 1.736872e-01 1.234756e-01 1.216063e-01 1.034279e-01
##           6685         6686         6687         6688         6689         6690
## 2.828935e-01 1.025995e-01 4.876944e-01 9.602550e-02 7.391492e-01 1.971002e-01
##           6691         6692         6693         6694         6695         6696
## 5.789199e-03 4.556105e-02 8.097484e-01 1.010541e-02 3.552253e-01 1.479484e-01
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##           6727         6728         6729         6730         6731         6732
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##           6733         6734         6735         6736         6737         6738
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##           6739         6740         6741         6742         6743         6744
## 1.285857e-01 6.345258e-01 2.263465e-03 3.672519e-01 7.848060e-01 4.128664e-01
##           6745         6746         6747         6748         6749         6750
## 1.542857e-01 1.634968e-03 3.301581e-01 7.800642e-01 5.852583e-01 1.374243e-01
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##           6757         6758         6759         6760         6761         6762
## 3.145234e-02 1.795738e-03 1.478816e-01 7.566774e-01 1.811740e-01 3.883176e-01
##           6763         6764         6765         6766         6767         6768
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##           6769         6770         6771         6772         6773         6774
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##           6775         6776         6777         6778         6779         6780
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##           6793         6794         6795         6796         6797         6798
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## 1.865082e-01 8.773086e-03 3.419475e-04 8.339437e-02 1.130739e-03 4.898009e-02
##           6823         6824         6825         6826         6827         6828
## 8.618299e-03 4.684474e-02 8.068174e-01 6.918511e-02 2.307721e-01 1.034401e-02
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## 3.436374e-02 3.589149e-03 1.923813e-01 1.483803e-01 1.185529e-02 1.730728e-01
##           6835         6836         6837         6838         6839         6840
## 3.946473e-01 7.709420e-01 3.832502e-03 4.585672e-02 8.879822e-03 7.162486e-02
##           6841         6842         6843         6844         6845         6846
## 5.869316e-03 1.534776e-01 1.831834e-01 2.073440e-02 4.286322e-02 2.781311e-01
##           6847         6848         6849         6850         6851         6852
## 1.075364e-01 5.417511e-04 1.571580e-01 1.578350e-02 2.231818e-01 2.872031e-02
##           6853         6854         6855         6856         6857         6858
## 2.754657e-03 2.200119e-01 1.440414e-01 1.622752e-01 5.169611e-01 4.513773e-03
##           6859         6860         6861         6862         6863         6864
## 2.095851e-01 6.446571e-02 3.008570e-03 1.556475e-02 4.297867e-01 4.114597e-03
##           6865         6866         6867         6868         6869         6870
## 8.672734e-02 6.481691e-02 2.536496e-01 2.966117e-02 6.063387e-02 2.592443e-03
##           6871         6872         6873         6874         6875         6876
## 2.008637e-02 1.729407e-01 7.074587e-03 1.147199e-02 1.414671e-02 8.732394e-02
##           6877         6878         6879         6880         6881         6882
## 2.068719e-03 1.938156e-02 3.156468e-02 9.128728e-03 1.319720e-03 3.388754e-01
##           6883         6884         6885         6886         6887         6888
## 1.242554e-01 8.405603e-01 6.199370e-03 3.440838e-03 2.391162e-02 2.018195e-02
##           6889         6890         6891         6892         6893         6894
## 2.367137e-02 1.231907e-03 2.977038e-01 4.403949e-03 3.299208e-02 5.273586e-01
##           6895         6896         6897         6898         6899         6900
## 4.424182e-01 2.902604e-02 1.115792e-01 7.903003e-02 2.833967e-03 1.224014e-01
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##           6907         6908         6909         6910         6911         6912
## 7.539376e-01 3.742018e-02 7.348299e-01 5.116571e-02 1.101379e-01 6.809424e-04
##           6913         6914         6915         6916         6917         6918
## 4.853834e-02 2.072982e-01 4.435773e-03 2.336127e-01 2.248572e-01 3.138437e-01
##           6919         6920         6921         6922         6923         6924
## 1.447984e-01 1.691831e-01 9.119028e-03 7.478967e-01 1.861715e-03 3.730204e-03
##           6925         6926         6927         6928         6929         6930
## 2.177870e-01 1.208733e-01 6.755423e-01 1.266928e-03 1.404600e-01 1.703250e-01
##           6931         6932         6933         6934         6935         6936
## 1.478192e-03 4.161571e-02 3.914832e-03 5.392498e-01 1.529673e-02 3.433528e-01
##           6937         6938         6939         6940         6941         6942
## 7.956331e-03 3.539920e-01 1.326539e-01 3.913255e-01 2.520490e-03 8.189306e-03
##           6943         6944         6945         6946         6947         6948
## 1.571650e-02 4.626005e-03 1.326937e-01 5.699649e-02 1.281907e-01 8.501329e-01
##           6949         6950         6951         6952         6953         6954
## 7.903003e-02 1.860378e-01 1.692918e-01 2.199718e-02 4.615349e-02 2.408302e-01
##           6955         6956         6957         6958         6959         6960
## 6.154353e-01 3.002377e-01 2.514304e-01 2.288367e-01 7.077890e-01 2.139040e-01
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## 5.597783e-02 7.561886e-01 1.253886e-01 5.503677e-02 3.475467e-01 9.378965e-01
##           6967         6968         6969         6970         6971         6972
## 1.228910e-01 9.118151e-01 6.279632e-01 6.377196e-01 6.399519e-01 2.688319e-01
##           6973         6974         6975         6976         6977         6978
## 3.160233e-01 5.279388e-02 5.102796e-01 7.113255e-02 6.329276e-01 6.376979e-02
##           6979         6980         6981         6982         6983         6984
## 2.467651e-02 7.144014e-01 1.536881e-01 3.117562e-03 4.999906e-01 5.601090e-02
##           6985         6986         6987         6988         6989         6990
## 7.106520e-01 1.346472e-02 8.019619e-01 9.031193e-01 8.957878e-01 2.425723e-01
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##           6997          6998          6999          7000          7001          7002
## 1.982532e-01 4.735727e-01 1.212120e-02 6.605675e-03 1.823903e-03 1.644476e-02
##           7003          7004          7005          7006          7007          7008
## 4.225400e-04 8.118661e-01 4.500665e-05 1.211220e-03 1.311770e-03 3.749755e-02
##           7009          7010          7011          7012          7013          7014
## 7.551462e-01 1.171546e-01 7.551462e-01 8.413615e-01 8.314728e-06 1.413170e-01
##           7015          7016          7017          7018          7019          7020
## 1.893887e-03 3.639436e-02 5.875651e-02 7.898087e-01 8.207701e-02 1.257886e-01
##           7021          7022          7023          7024          7025          7026
## 4.642335e-02 7.761160e-02 8.062161e-03 1.931075e-01 4.417029e-03 4.966324e-01
##           7027          7028          7029          7030          7031          7032
## 1.467488e-02 3.172249e-01 5.599625e-01 3.320942e-01 2.784223e-01 5.336769e-03
##           7033          7034          7035          7036          7037          7038
## 3.683256e-02 4.927152e-02 8.402174e-01 6.452510e-01 1.109093e-01 1.538416e-01
##           7039          7040          7041          7042          7043          7044
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##           7045          7046          7047          7048          7049          7050
## 8.097262e-01 8.780997e-02 3.612420e-01 1.349316e-01 3.138206e-02 9.379508e-01
##           7051          7052          7053          7054          7055          7056
## 2.184441e-04 3.853037e-03 8.361090e-01 8.495515e-01 1.603854e-01 3.285807e-02
##           7057          7058          7059          7060          7061          7062
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##           7063          7064          7065          7066          7067          7068
## 2.069184e-01 1.019880e-02 1.275093e-01 1.466789e-01 2.234004e-02 8.130343e-02
##           7069          7070          7071          7072          7073          7074
## 7.083479e-01 4.582926e-01 9.903569e-02 5.057057e-02 6.629483e-02 9.514316e-01
##           7075          7076          7077          7078          7079          7080
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##           7087          7088          7089          7090          7091          7092
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##           7111          7112          7113          7114          7115          7116
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##           7117          7118          7119          7120          7121          7122
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##           7123          7124          7125          7126          7127          7128
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##           7129          7130          7131          7132          7133          7134
## 7.140617e-03 3.111011e-04 1.005543e-03 8.739880e-01 3.053444e-03 7.745500e-01
##           7135          7136          7137          7138          7139          7140
## 1.627936e-01 3.696394e-01 8.624811e-01 5.425895e-02 3.187661e-03 6.084879e-01
##           7141          7142          7143          7144          7145          7146
## 5.529577e-02 1.686767e-02 3.290906e-01 8.918793e-01 8.226005e-01 1.870020e-02
##           7147          7148          7149          7150          7151          7152
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##         7165          7166          7167          7168          7169          7170
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##         7171          7172          7173          7174          7175          7176
## 2.138252e-02 1.990903e-04 4.063769e-02 7.630536e-02 3.400971e-01 7.707223e-01
##         7177          7178          7179          7180          7181          7182
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## 1.087999e-02 1.084638e-01 2.468203e-01 8.787146e-01 7.622052e-01 8.350447e-01
##         7189          7190          7191          7192          7193          7194
## 5.446080e-03 2.206721e-01 8.787146e-01 7.298488e-01 1.067338e-03 3.611069e-01
##         7195          7196          7197          7198          7199          7200
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##         7207          7208          7209          7210          7211          7212
## 8.801665e-01 1.663190e-01 8.178874e-01 6.741890e-03 7.242047e-01 2.655617e-02
##         7213          7214          7215          7216          7217          7218
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##         7219          7220          7221          7222          7223          7224
## 5.946164e-01 3.750327e-01 1.171546e-01 5.958813e-03 1.309521e-01 1.555688e-03
##         7225          7226          7227          7228          7229          7230
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##         7231          7232          7233          7234          7235          7236
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##         7291          7292          7293          7294          7295          7296
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##         7297          7298          7299          7300          7301          7302
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##         7303          7304          7305          7306          7307          7308
## 8.858402e-01 7.301595e-01 2.280534e-02 1.374560e-01 1.832901e-01 7.037486e-01
##         7309          7310          7311          7312          7313          7314
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## 5.955274e-04 2.314668e-01 2.043707e-01 3.093252e-02 6.446571e-02 7.361367e-02
##          7327         7328         7329         7330         7331         7332
## 2.577251e-01 7.428269e-01 5.882849e-02 3.418330e-01 5.912082e-04 1.429971e-01
##          7333         7334         7335         7336         7337         7338
## 1.368010e-03 8.568034e-02 5.021476e-04 1.924826e-01 2.052474e-03 1.030944e-01
##          7339         7340         7341         7342         7343         7344
## 4.195867e-02 4.738754e-01 3.609945e-01 2.424857e-03 5.254563e-02 8.329472e-01
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##          7363         7364         7365         7366         7367         7368
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##          7369         7370         7371         7372         7373         7374
## 1.004434e-03 9.698715e-02 1.472807e-01 5.215306e-03 7.169838e-02 1.865853e-01
##          7375         7376         7377         7378         7379         7380
## 2.921263e-01 4.179332e-02 6.563377e-02 3.781515e-03 3.890509e-01 1.916358e-04
##          7381         7382         7383         7384         7385         7386
## 2.878975e-03 1.194939e-03 1.981364e-02 4.451851e-02 4.770862e-04 3.970930e-02
##          7387         7388         7389         7390         7391         7392
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##          7393         7394         7395         7396         7397         7398
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##          7399         7400         7401         7402         7403         7404
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## 6.494813e-01 4.018439e-03 2.479154e-03 4.860725e-02 2.272289e-02 5.156213e-01
##          7411         7412         7413         7414         7415         7416
## 5.816777e-01 8.357338e-02 1.035953e-04 2.324686e-01 5.441017e-01 3.669880e-02
##          7417         7418         7419         7420         7421         7422
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##          7423         7424         7425         7426         7427         7428
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##          7429         7430         7431         7432         7433         7434
## 1.089739e-01 2.560940e-03 5.665608e-01 3.031284e-01 1.087339e-01 2.512768e-02
##          7435         7436         7437         7438         7439         7440
## 2.599149e-01 6.056518e-01 6.879549e-02 5.061727e-02 8.089872e-01 9.565504e-02
##          7441         7442         7443         7444         7445         7446
## 4.566979e-01 2.350724e-02 4.715273e-02 8.626425e-02 6.202778e-02 5.198687e-02
##          7447         7448         7449         7450         7451         7452
## 6.722055e-02 2.650112e-03 2.508046e-02 5.017681e-02 1.102640e-03 1.306939e-02
##          7453         7454         7455         7456         7457         7458
## 9.577676e-02 5.766748e-04 4.769650e-02 1.909915e-01 1.801158e-01 6.929251e-01
##          7459         7460         7461         7462         7463         7464
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##          7465         7466         7467         7468         7469         7470
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##          7471         7472         7473         7474         7475         7476
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##           7483           7484           7485           7486           7487           7488
## 8.174218e-01 9.420819e-03 2.783752e-02 2.921263e-01 5.925596e-01 1.397921e-01
##           7489           7490           7491           7492           7493           7494
## 1.871509e-03 8.758780e-02 9.629745e-02 1.229039e-03 7.245847e-04 3.108703e-01
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## 4.510243e-02 9.577676e-02 2.730227e-02 3.480692e-02 3.890509e-01 2.754536e-02
##           7507           7508           7509           7510           7511           7512
## 5.611630e-02 6.030728e-04 2.374338e-01 2.021534e-01 8.655590e-02 9.833364e-02
##           7513           7514           7515           7516           7517           7518
## 1.824194e-03 1.276155e-03 4.925377e-02 5.766748e-04 2.508118e-02 1.112190e-01
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## 1.246612e-01 3.203660e-03 1.207357e-01 5.079404e-02 3.356506e-02 4.202469e-02
##           7525           7526           7527           7528           7529           7530
## 4.268515e-02 2.071781e-03 6.427858e-01 8.176586e-03 1.039536e-01 3.564560e-04
##           7531           7532           7533           7534           7535           7536
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##           7537           7538           7539           7540           7541           7542
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##           7543           7544           7545           7546           7547           7548
## 1.335695e-01 2.374338e-01 3.068551e-02 7.430551e-02 3.900736e-03 4.764288e-01
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##           7555           7556           7557           7558           7559           7560
## 3.013801e-02 3.425934e-03 2.497664e-01 4.854117e-03 5.681143e-02 1.857216e-03
##           7561           7562           7563           7564           7565           7566
## 3.738155e-02 1.863615e-01 1.449888e-02 1.073110e-03 3.246422e-02 2.536496e-01
##           7567           7568           7569           7570           7571           7572
## 7.868140e-02 6.651486e-04 1.420317e-03 1.057628e-03 5.783120e-02 1.937296e-04
##           7573           7574           7575           7576           7577           7578
## 2.745207e-01 1.410642e-01 3.722975e-01 1.548441e-01 1.777922e-03 9.217074e-03
##           7579           7580           7581           7582           7583           7584
## 2.730965e-02 1.212206e-01 4.832620e-02 3.773698e-04 3.021518e-03 5.219239e-01
##           7585           7586           7587           7588           7589           7590
## 1.087019e-01 3.111708e-02 2.730965e-02 1.393051e-03 9.821036e-04 4.007398e-03
##           7591           7592           7593           7594           7595           7596
## 2.200119e-01 7.875247e-03 6.184669e-02 2.633081e-03 5.570700e-02 1.245533e-01
##           7597           7598           7599           7600           7601           7602
## 2.534502e-03 1.204453e-03 7.092119e-03 2.258712e-02 2.364706e-03 5.053834e-02
##           7603           7604           7605           7606           7607           7608
## 3.246978e-01 1.537173e-02 1.771542e-03 1.965830e-02 1.273882e-01 4.415728e-04
##           7609           7610           7611           7612           7613           7614
## 1.577574e-01 4.579118e-02 3.967092e-02 7.166147e-01 5.320439e-02 2.583329e-02
##           7615           7616           7617           7618           7619           7620
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##           7621           7622           7623           7624           7625           7626
## 6.045877e-03 2.957718e-01 2.396520e-02 6.986028e-01 6.339194e-01 2.762950e-02
##           7627           7628           7629           7630           7631           7632
## 7.081229e-01 3.757411e-01 2.257443e-01 2.792054e-02 3.379983e-03 5.660175e-04
##           7633           7634           7635           7636           7637           7638
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## 2.820706e-02 1.511307e-01 3.202680e-01 5.248541e-03 6.309612e-01 9.796318e-02
##          7651         7652         7653         7654         7655         7656
## 1.635966e-01 4.415242e-03 5.905872e-02 8.935026e-02 7.600487e-03 5.435410e-03
##          7657         7658         7659         7660         7661         7662
## 2.437990e-01 6.341002e-01 5.210389e-02 8.670685e-01 3.631840e-03 5.616297e-01
##          7663         7664         7665         7666         7667         7668
## 1.555934e-02 2.133371e-01 5.554124e-02 1.045919e-02 3.943940e-02 2.786990e-02
##          7669         7670         7671         7672         7673         7674
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##          7675         7676         7677         7678         7679         7680
## 3.390790e-02 4.832620e-02 4.109048e-01 1.620760e-02 6.700891e-01 1.301446e-01
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## 1.467811e-01 1.948155e-03 2.726735e-01 7.081229e-01 8.729065e-02 7.663180e-01
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## 7.390370e-02 1.039318e-01 8.536157e-01 3.829612e-01 1.467811e-01 5.213880e-02
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##          7717         7718         7719         7720         7721         7722
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##          7723         7724         7725         7726         7727         7728
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##          7747         7748         7749         7750         7751         7752
## 6.508532e-05 6.555948e-02 3.582103e-01 1.936960e-03 8.206424e-03 1.245189e-02
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## 7.921900e-01 3.301183e-03 1.158839e-01 5.266107e-02 5.959343e-01 3.067407e-01
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## 1.827742e-01 2.894416e-03 8.212740e-01 1.225453e-03 2.911403e-02 8.140550e-01
##          7771         7772         7773         7774         7775         7776
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##          7777         7778         7779         7780         7781         7782
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##          7783         7784         7785         7786         7787         7788
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##          7789         7790         7791         7792         7793         7794
## 7.373962e-01 3.395772e-02 7.532030e-01 1.357439e-01 7.576377e-01 9.757653e-01
##          7795         7796         7797         7798         7799         7800
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##           7813         7814         7815         7816         7817         7818
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##           7819         7820         7821         7822         7823         7824
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##           7825         7826         7827         7828         7829         7830
## 4.683468e-03 1.492383e-02 1.960517e-04 3.480692e-02 3.824807e-02 9.419871e-03
##           7831         7832         7833         7834         7835         7836
## 7.233066e-02 3.546100e-01 2.352928e-01 6.744129e-01 7.213706e-02 5.623263e-02
##           7837         7838         7839         7840         7841         7842
## 5.557673e-02 8.495088e-01 3.106034e-01 1.338881e-02 4.146795e-02 9.783981e-02
##           7843         7844         7845         7846         7847         7848
## 5.743791e-02 9.504805e-02 6.697403e-03 1.253100e-01 1.072759e-01 1.334023e-01
##           7849         7850         7851         7852         7853         7854
## 2.797904e-01 1.618546e-03 2.593458e-03 7.559071e-01 6.327475e-01 8.320536e-01
##           7855         7856         7857         7858         7859         7860
## 8.361082e-01 4.291899e-03 4.938816e-02 6.272487e-03 9.706327e-05 9.797178e-02
##           7861         7862         7863         7864         7865         7866
## 1.697238e-02 2.264433e-01 5.778334e-02 3.818467e-01 9.149340e-02 1.084638e-01
##           7867         7868         7869         7870         7871         7872
## 1.909240e-01 1.520185e-01 8.329173e-01 5.503797e-03 8.509007e-02 8.761957e-02
##           7873         7874         7875         7876         7877         7878
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##           7879         7880         7881         7882         7883         7884
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##           7885         7886         7887         7888         7889         7890
## 3.363241e-01 1.000712e-02 7.481240e-01 6.303301e-02 1.212020e-01 5.481286e-03
##           7891         7892         7893         7894         7895         7896
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## 2.822075e-03 7.473557e-01 7.992279e-01 2.293522e-04 1.891659e-03 4.531808e-02
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## 1.724917e-03 2.337626e-01 1.349316e-01 1.225027e-01 1.592226e-02 5.300230e-02
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## 2.170301e-01 2.920928e-02 8.543722e-01 7.044284e-03 7.541064e-03 1.250350e-01
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##           7945         7946         7947         7948         7949         7950
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## 7.058420e-02 2.301242e-01 7.998453e-01 1.084638e-01 8.951905e-01 6.490099e-03
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## 1.750541e-01 5.243037e-02 7.873585e-03 5.852315e-01 2.953128e-03 8.636163e-01
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##         7981         7982         7983         7984         7985         7986
## 6.313016e-01 6.903949e-04 4.448175e-02 8.777832e-02 1.291310e-01 9.137784e-01
##         7987         7988         7989         7990         7991         7992
## 9.671244e-03 7.788929e-01 7.363454e-01 3.100626e-02 2.536370e-02 1.557425e-01
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## 7.077814e-02 8.320536e-01 1.362741e-03 1.947444e-03 1.941558e-01 1.287156e-01
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## 3.774645e-02 8.965494e-01 1.964717e-03 3.779349e-01 5.795780e-03 3.565777e-01
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## 2.054023e-02 8.774537e-01 2.013599e-01 1.220977e-02 6.651670e-01 8.903134e-01
##         8011         8012         8013         8014         8015         8016
## 7.147998e-01 1.864536e-02 4.883882e-01 1.381569e-02 6.280208e-03 4.506804e-03
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## 3.543167e-03 4.671437e-02 2.131386e-01 5.408726e-01 1.710992e-01 1.891692e-01
##         8023         8024         8025         8026         8027         8028
## 4.506301e-04 7.032562e-01 8.575945e-01 8.871859e-01 1.975352e-01 6.506830e-02
##         8029         8030         8031         8032         8033         8034
## 2.719046e-02 3.631583e-01 3.188442e-01 9.232496e-03 1.371993e-03 2.020273e-01
##         8035         8036         8037         8038         8039         8040
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##         8041         8042         8043         8044         8045         8046
## 6.263086e-04 1.056071e-03 8.273244e-01 4.544483e-02 5.254800e-01 2.943786e-03
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## 2.064714e-02 7.918935e-04 6.492858e-01 8.209826e-01 1.722985e-01 8.045767e-01
##         8053         8054         8055         8056         8057         8058
## 6.041168e-02 6.476722e-02 1.619954e-01 2.529652e-03 2.259401e-02 6.234637e-01
##         8059         8060         8061         8062         8063         8064
## 8.657775e-01 9.240270e-04 7.024630e-01 2.183618e-02 6.505503e-03 5.041504e-02
##         8065         8066         8067         8068         8069         8070
## 1.910920e-01 2.094546e-03 2.362448e-02 3.901180e-01 6.346783e-02 4.278946e-04
##         8071         8072         8073         8074         8075         8076
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##         8077         8078         8079         8080         8081         8082
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##         8107         8108         8109         8110         8111         8112
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##         8119         8120         8121         8122         8123         8124
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## 5.004795e-01 1.080463e-01 7.515320e-03 3.301213e-01 5.375655e-03 1.719777e-01
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##          8209          8210          8211          8212          8213          8214
## 5.032455e-03 6.570565e-03 9.121309e-02 3.915716e-03 1.443912e-01 5.035193e-01
##          8215          8216          8217          8218          8219          8220
## 6.189304e-01 5.867708e-02 1.216903e-02 5.730734e-01 5.665514e-01 4.904261e-02
##          8221          8222          8223          8224          8225          8226
## 1.000439e-01 5.475492e-05 1.106566e-04 7.734946e-01 2.550783e-01 1.194634e-01
##          8227          8228          8229          8230          8231          8232
## 1.146812e-05 1.415084e-01 7.055949e-01 1.489791e-02 2.775204e-01 6.786079e-05
##          8233          8234          8235          8236          8237          8238
## 1.861493e-01 3.398962e-03 5.590097e-02 4.763348e-04 3.720939e-03 1.243838e-01
##          8239          8240          8241          8242          8243          8244
## 4.952384e-02 8.563804e-01 9.437580e-02 2.583627e-03 1.460310e-01 1.742965e-03
##          8245          8246          8247          8248          8249          8250
## 7.586068e-02 6.106871e-02 7.045841e-02 8.381013e-02 2.495761e-02 1.575308e-01
##          8251          8252          8253          8254          8255          8256
## 5.467141e-02 1.429996e-02 1.561460e-02 8.699198e-01 1.845352e-01 1.013783e-01
##          8257          8258          8259          8260          8261          8262
## 8.287973e-01 5.148851e-02 1.934204e-02 1.828125e-03 6.747988e-03 2.656973e-03
##          8263          8264          8265          8266          8267          8268
## 5.565013e-01 1.013783e-01 8.435035e-01 2.281334e-02 7.151705e-04 5.154622e-03
##          8269          8270          8271          8272          8273          8274
## 2.853099e-05 1.298235e-01 1.090464e-03 2.706971e-01 4.366890e-02 8.473743e-02
##          8275          8276          8277          8278          8279          8280
## 1.117369e-03 6.969379e-02 2.387305e-03 1.104816e-03 7.504127e-02 4.242444e-03
##          8281          8282          8283          8284          8285          8286
## 1.013783e-01 1.643664e-03 8.902270e-04 1.275555e-02 3.394515e-03 1.286433e-02
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##         8287          8288          8289          8290          8291          8292
## 6.585291e-03 8.026212e-03 5.236920e-03 5.283049e-03 1.471674e-01 3.747830e-03
##         8293          8294          8295          8296          8297          8298
## 9.812506e-02 6.345836e-01 5.431063e-03 1.677250e-01 1.590542e-03 1.415084e-01
##         8299          8300          8301          8302          8303          8304
## 1.819672e-02 6.929251e-01 8.288129e-01 1.635464e-01 2.936761e-01 9.695350e-05
##         8305          8306          8307          8308          8309          8310
## 1.566281e-02 5.274204e-04 4.291859e-02 1.712754e-02 5.350676e-02 2.728918e-03
##         8311          8312          8313          8314          8315          8316
## 1.045117e-03 1.364162e-01 6.463739e-03 2.930169e-02 7.990788e-03 9.232451e-02
##         8317          8318          8319          8320          8321          8322
## 6.470073e-01 3.722512e-02 1.231267e-02 1.458888e-04 1.410642e-01 6.135183e-02
##         8323          8324          8325          8326          8327          8328
## 2.869411e-01 2.347844e-02 3.873934e-02 4.630764e-02 6.839821e-02 3.562893e-02
##         8329          8330          8331          8332          8333          8334
## 2.525979e-04 2.488060e-01 1.239147e-02 2.159262e-03 5.400033e-04 2.231581e-01
##         8335          8336          8337          8338          8339          8340
## 3.023931e-02 6.116861e-02 2.242911e-01 2.533196e-02 3.059983e-02 1.800232e-03
##         8341          8342          8343          8344          8345          8346
## 1.132690e-01 1.431286e-01 5.394818e-01 3.745398e-03 7.081087e-02 9.694701e-04
##         8347          8348          8349          8350          8351          8352
## 2.874865e-02 8.672734e-02 1.227885e-01 2.368143e-05 1.943593e-01 5.564710e-04
##         8353          8354          8355          8356          8357          8358
## 3.050381e-02 2.474643e-02 5.556299e-01 4.450400e-01 5.734889e-04 4.018957e-02
##         8359          8360          8361          8362          8363          8364
## 2.667390e-01 5.564710e-04 6.848773e-01 2.715036e-01 8.629480e-01 1.981077e-01
##         8365          8366          8367          8368          8369          8370
## 1.080701e-01 1.751575e-03 5.556299e-01 6.370408e-01 6.610244e-02 5.489976e-01
##         8371          8372          8373          8374          8375          8376
## 5.913102e-02 2.246495e-01 3.624201e-01 4.957487e-02 6.065631e-03 6.929251e-01
##         8377          8378          8379          8380          8381          8382
## 2.030528e-02 2.546964e-04 1.113299e-01 2.657372e-01 1.215188e-01 8.257368e-03
##         8383          8384          8385          8386          8387          8388
## 5.116571e-02 8.118900e-02 3.379983e-03 6.348176e-03 5.564710e-04 8.520032e-02
##         8389          8390          8391          8392          8393          8394
## 5.823098e-01 2.432296e-03 5.335469e-02 6.144749e-03 5.186016e-03 1.334758e-01
##         8395          8396          8397          8398          8399          8400
## 4.193067e-02 3.119755e-02 5.728432e-01 6.497160e-01 7.560898e-02 8.182792e-01
##         8401          8402          8403          8404          8405          8406
## 7.511791e-01 1.142548e-01 4.930903e-02 2.773443e-02 1.228360e-02 1.150453e-01
##         8407          8408          8409          8410          8411          8412
## 5.273586e-01 3.874395e-03 3.177942e-03 2.196589e-01 2.391162e-02 3.819847e-02
##         8413          8414          8415          8416          8417          8418
## 3.873934e-02 5.592793e-01 5.116571e-02 2.666291e-02 8.546933e-04 1.626414e-03
##         8419          8420          8421          8422          8423          8424
## 9.050964e-01 1.686036e-03 7.524200e-01 7.920266e-01 2.895583e-01 3.930103e-02
##         8425          8426          8427          8428          8429          8430
## 1.967858e-01 2.728635e-03 1.941648e-01 7.325335e-02 1.859487e-02 2.142098e-02
##         8431          8432          8433          8434          8435          8436
## 9.031193e-01 1.597330e-03 5.578790e-04 1.071619e-03 5.440163e-02 7.605608e-01
##         8437          8438          8439          8440          8441          8442
## 1.142632e-02 7.483812e-01 4.089610e-02 7.258267e-02 1.188330e-01 8.866787e-01
##         8443          8444          8445          8446          8447          8448
## 7.144014e-01 4.538785e-01 3.249937e-01 2.382435e-02 4.139494e-03 3.973718e-01
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##           8449          8450          8451          8452          8453          8454
## 7.561886e-01 8.732773e-01 1.278005e-01 2.161435e-02 6.314786e-01 8.019619e-01
##           8455          8456          8457          8458          8459          8460
## 1.141233e-01 9.009376e-01 7.980388e-01 9.266658e-01 7.281266e-01 7.286109e-01
##           8461          8462          8463          8464          8465          8466
## 7.021601e-02 1.594992e-02 2.332611e-02 4.769650e-02 8.787960e-01 7.677098e-02
##           8467          8468          8469          8470          8471          8472
## 1.413170e-01 7.785863e-02 3.860947e-01 4.769650e-02 7.516784e-01 2.620779e-02
##           8473          8474          8475          8476          8477          8478
## 2.630768e-02 7.764383e-03 8.069807e-01 6.252363e-01 4.994618e-02 7.590990e-01
##           8479          8480          8481          8482          8483          8484
## 6.657569e-01 1.428039e-01 8.744599e-01 8.511164e-01 8.464735e-01 8.087900e-02
##           8485          8486          8487          8488          8489          8490
## 1.915740e-02 2.453045e-03 4.113513e-02 4.603283e-01 1.853730e-04 5.276327e-01
##           8491          8492          8493          8494          8495          8496
## 1.088109e-01 5.196039e-01 5.598784e-04 5.263264e-02 6.246062e-01 5.727370e-03
##           8497          8498          8499          8500          8501          8502
## 7.837803e-01 8.672208e-01 6.530044e-02 8.804935e-01 1.740242e-03 2.821265e-02
##           8503          8504          8505          8506          8507          8508
## 8.733930e-02 1.170152e-01 3.332647e-01 1.848917e-02 9.087984e-01 2.941859e-01
##           8509          8510          8511          8512          8513          8514
## 8.456291e-02 6.201949e-01 2.941859e-01 2.008103e-01 4.806737e-01 1.094452e-01
##           8515          8516          8517          8518          8519          8520
## 1.418818e-01 3.146493e-01 1.304548e-01 2.234004e-02 6.714494e-02 4.580293e-01
##           8521          8522          8523          8524          8525          8526
## 2.771972e-04 1.137614e-01 8.263098e-04 6.230273e-02 9.408901e-01 3.038121e-03
##           8527          8528          8529          8530          8531          8532
## 9.956631e-02 5.712266e-02 2.433311e-01 1.085561e-01 4.180730e-01 2.069184e-01
##           8533          8534          8535          8536          8537          8538
## 3.157834e-02 8.957878e-01 4.063728e-02 1.542826e-02 8.967983e-03 7.937067e-01
##           8539          8540          8541          8542          8543          8544
## 3.406701e-02 1.408882e-01 1.337282e-02 2.568425e-01 7.314471e-01 7.311158e-01
##           8545          8546          8547          8548          8549          8550
## 8.155814e-02 4.530652e-01 1.214138e-01 1.170285e-02 1.975352e-01 6.857805e-02
##           8551          8552          8553          8554          8555          8556
## 4.268742e-02 1.466095e-01 1.012833e-02 3.903718e-01 9.941481e-03 8.735799e-01
##           8557          8558          8559          8560          8561          8562
## 9.164041e-01 8.362907e-01 1.170152e-01 7.350285e-02 9.665628e-02 5.857632e-04
##           8563          8564          8565          8566          8567          8568
## 3.528647e-03 8.954198e-01 3.132793e-01 2.319655e-03 7.220855e-01 9.137779e-01
##           8569          8570          8571          8572          8573          8574
## 5.130676e-03 1.129858e-03 8.265358e-02 4.810379e-03 1.136023e-02 4.740116e-01
##           8575          8576          8577          8578          8579          8580
## 8.791667e-01 3.084910e-02 5.668108e-02 3.586141e-04 8.654662e-02 3.249937e-01
##           8581          8582          8583          8584          8585          8586
## 3.676486e-01 1.975352e-01 1.453943e-01 8.662754e-01 6.149177e-01 1.340375e-01
##           8587          8588          8589          8590          8591          8592
## 1.378961e-02 6.305845e-01 1.202634e-01 7.539390e-02 1.702773e-01 6.537551e-04
##           8593          8594          8595          8596          8597          8598
## 6.094364e-03 6.546820e-01 7.872978e-01 4.082191e-03 3.644394e-02 1.505406e-02
##           8599          8600          8601          8602          8603          8604
## 8.063981e-01 3.598512e-01 2.273925e-01 4.012547e-01 3.893891e-02 3.696394e-01
##           8605          8606          8607          8608          8609          8610
## 1.657343e-03 7.787540e-02 8.361090e-01 2.404024e-01 7.224319e-01 1.242554e-01
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##           8611          8612          8613          8614          8615          8616
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##           8617          8618          8619          8620          8621          8622
## 3.041323e-02 1.525430e-02 1.982357e-01 2.398645e-02 5.652219e-01 3.220540e-02
##           8623          8624          8625          8626          8627          8628
## 6.485731e-01 1.084638e-01 1.810375e-02 8.787146e-01 2.971539e-01 1.418181e-03
##           8629          8630          8631          8632          8633          8634
## 4.925047e-02 7.404655e-03 6.456094e-01 7.488587e-02 2.621684e-01 1.079026e-01
##           8635          8636          8637          8638          8639          8640
## 2.917287e-02 3.409317e-02 9.656701e-03 2.201025e-03 1.343623e-02 4.261124e-01
##           8641          8642          8643          8644          8645          8646
## 4.401930e-01 2.430764e-01 1.444535e-02 1.158148e-01 1.396772e-02 8.038912e-02
##           8647          8648          8649          8650          8651          8652
## 1.219391e-01 5.243037e-02 5.476575e-02 1.438354e-01 8.155814e-02 1.031119e-02
##           8653          8654          8655          8656          8657          8658
## 1.015067e-01 1.561121e-01 2.848221e-03 4.463863e-02 1.421067e-01 3.680329e-02
##           8659          8660          8661          8662          8663          8664
## 5.087589e-03 7.281361e-04 1.827586e-03 4.179332e-02 3.747675e-03 5.626174e-01
##           8665          8666          8667          8668          8669          8670
## 5.115649e-01 7.990433e-03 8.282848e-02 1.005324e-01 1.502296e-01 3.186758e-02
##           8671          8672          8673          8674          8675          8676
## 6.436234e-02 4.271073e-02 3.062406e-03 8.171007e-02 2.553220e-04 8.534851e-01
##           8677          8678          8679          8680          8681          8682
## 6.191096e-02 1.258979e-03 1.898640e-01 1.871259e-01 2.236577e-04 3.730777e-03
##           8683          8684          8685          8686          8687          8688
## 4.901201e-02 9.085597e-01 9.177488e-01 4.238850e-01 9.114912e-04 9.712348e-02
##           8689          8690          8691          8692          8693          8694
## 7.983181e-01 9.525927e-01 8.038912e-02 4.830917e-03 7.124690e-02 8.580577e-01
##           8695          8696          8697          8698          8699          8700
## 7.279915e-01 1.220189e-02 1.139863e-01 3.253486e-02 1.888113e-01 7.038527e-01
##           8701          8702          8703          8704          8705          8706
## 1.258979e-03 6.296721e-01 3.035816e-01 1.116916e-01 2.302265e-03 7.524766e-01
##           8707          8708          8709          8710          8711          8712
## 4.459685e-02 1.818763e-02 5.965631e-01 2.784395e-01 4.895002e-03 7.978801e-03
##           8713          8714          8715          8716          8717          8718
## 2.299426e-03 6.182811e-02 5.805729e-02 1.123860e-03 1.694803e-01 7.373302e-02
##           8719          8720          8721          8722          8723          8724
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##           8725          8726          8727          8728          8729          8730
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##           8731          8732          8733          8734          8735          8736
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##           8737          8738          8739          8740          8741          8742
## 2.744693e-01 6.765559e-03 2.395443e-03 2.706272e-03 5.350676e-02 8.610805e-01
##           8743          8744          8745          8746          8747          8748
## 1.877698e-01 5.066061e-02 1.050572e-01 8.368194e-01 9.260845e-01 5.988165e-02
##           8749          8750          8751          8752          8753          8754
## 4.063769e-02 2.929159e-01 3.434285e-02 7.103059e-01 4.151256e-01 2.269304e-03
##           8755          8756          8757          8758          8759          8760
## 8.241816e-01 3.643463e-02 1.239788e-03 1.424078e-02 5.773718e-01 4.006432e-03
##           8761          8762          8763          8764          8765          8766
## 4.591354e-03 9.906174e-02 8.901469e-01 3.190085e-02 2.455091e-03 6.096798e-01
##           8767          8768          8769          8770          8771          8772
## 4.396768e-02 2.941112e-01 6.126984e-01 1.322371e-01 1.903048e-02 7.465613e-01
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##         8779          8780          8781          8782          8783          8784
## 8.116127e-02 1.207528e-01 2.392346e-03 9.542375e-02 6.393340e-02 3.264538e-02
##         8785          8786          8787          8788          8789          8790
## 3.842679e-01 7.191331e-02 2.154652e-03 3.643463e-02 1.004659e-02 7.133482e-01
##         8791          8792          8793          8794          8795          8796
## 1.163002e-02 4.801005e-02 4.770645e-01 2.361253e-01 1.082742e-01 1.612478e-02
##         8797          8798          8799          8800          8801          8802
## 2.318135e-02 5.298709e-01 5.417977e-03 2.452762e-03 3.848251e-02 1.395377e-01
##         8803          8804          8805          8806          8807          8808
## 5.004431e-02 5.841013e-02 2.097113e-01 4.008854e-01 1.123758e-02 9.554498e-04
##         8809          8810          8811          8812          8813          8814
## 2.374338e-01 2.893555e-02 8.288114e-01 1.018519e-02 4.062218e-03 1.114121e-01
##         8815          8816          8817          8818          8819          8820
## 8.880590e-01 1.053163e-02 9.351154e-01 5.881705e-03 2.497041e-04 4.743464e-04
##         8821          8822          8823          8824          8825          8826
## 1.705590e-03 8.442475e-01 3.067982e-01 2.507915e-02 4.415189e-03 6.963798e-02
##         8827          8828          8829          8830          8831          8832
## 1.536885e-03 8.771903e-02 3.861998e-01 4.905020e-02 1.860447e-01 1.555155e-01
##         8833          8834          8835          8836          8837          8838
## 8.041050e-01 7.227317e-03 4.842345e-02 4.921223e-01 1.774948e-02 3.164164e-01
##         8839          8840          8841          8842          8843          8844
## 5.286125e-01 2.326115e-01 1.285644e-01 1.513349e-01 1.267771e-03 3.118599e-02
##         8845          8846          8847          8848          8849          8850
## 1.483684e-02 7.833174e-01 2.063395e-02 8.153098e-01 1.386540e-03 1.362950e-01
##         8851          8852          8853          8854          8855          8856
## 1.800863e-02 4.650760e-02 7.167070e-01 8.507856e-01 3.575368e-01 2.409750e-03
##         8857          8858          8859          8860          8861          8862
## 2.039625e-02 3.376920e-02 6.964591e-01 1.275769e-02 1.792866e-01 1.656773e-01
##         8863          8864          8865          8866          8867          8868
## 1.522451e-03 5.156213e-01 5.123253e-01 1.975506e-03 6.102671e-02 1.194314e-01
##         8869          8870          8871          8872          8873          8874
## 9.200771e-04 1.989514e-03 1.696931e-03 4.006483e-04 2.302324e-03 3.276758e-01
##         8875          8876          8877          8878          8879          8880
## 3.277136e-01 1.643664e-03 1.566557e-01 1.173089e-01 1.337722e-02 2.823321e-02
##         8881          8882          8883          8884          8885          8886
## 2.054023e-02 3.494488e-03 1.420108e-03 2.581264e-01 2.819351e-02 4.128664e-01
##         8887          8888          8889          8890          8891          8892
## 1.415152e-02 2.944576e-03 2.364107e-04 2.451796e-02 6.110147e-01 3.045976e-02
##         8893          8894          8895          8896          8897          8898
## 1.361155e-02 1.702059e-01 1.811984e-01 6.307581e-03 8.423909e-03 6.851892e-03
##         8899          8900          8901          8902          8903          8904
## 7.284889e-01 4.174612e-02 3.200554e-04 2.105478e-02 8.396041e-01 7.661511e-01
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## 2.781375e-02 9.514232e-04 9.437580e-02 3.779349e-01 8.571506e-01 7.896407e-01
##         8911          8912          8913          8914          8915          8916
## 5.448825e-02 7.134042e-01 4.092978e-03 4.194598e-01 5.766748e-04 2.192973e-01
##         8917          8918          8919          8920          8921          8922
## 7.974359e-03 2.452872e-02 2.564909e-04 5.894058e-03 3.137086e-01 2.153807e-01
##         8923          8924          8925          8926          8927          8928
## 2.299314e-01 7.058085e-01 3.810555e-02 8.318655e-03 1.978890e-03 4.133299e-01
##         8929          8930          8931          8932          8933          8934
## 9.239972e-04 7.951321e-02 7.260029e-01 7.577841e-03 1.227384e-03 2.994828e-03
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##         8941         8942         8943         8944         8945         8946
## 1.194634e-01 1.090295e-01 1.533349e-02 4.715793e-01 2.988736e-04 1.294940e-03
##         8947         8948         8949         8950         8951         8952
## 3.432901e-01 2.124113e-02 8.663993e-01 4.287861e-01 2.212119e-03 7.932125e-03
##         8953         8954         8955         8956         8957         8958
## 4.870708e-01 3.897368e-02 1.698114e-03 1.597330e-03 1.566557e-01 7.232165e-03
##         8959         8960         8961         8962         8963         8964
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##         8971         8972         8973         8974         8975         8976
## 6.600980e-01 5.795709e-02 4.495429e-03 4.066023e-02 2.565872e-02 2.330876e-02
##         8977         8978         8979         8980         8981         8982
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##         8983         8984         8985         8986         8987         8988
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##         8989         8990         8991         8992         8993         8994
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##         8995         8996         8997         8998         8999         9000
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##         9001         9002         9003         9004         9005         9006
## 9.921640e-03 6.598195e-02 2.754657e-03 7.961062e-04 7.434904e-02 1.220186e-02
##         9007         9008         9009         9010         9011         9012
## 6.358027e-01 4.900830e-02 1.480556e-01 2.761373e-02 4.617179e-01 3.266485e-01
##         9013         9014         9015         9016         9017         9018
## 7.146670e-04 6.222988e-01 3.379983e-03 1.515689e-01 1.275781e-01 6.904873e-02
##         9019         9020         9021         9022         9023         9024
## 7.081229e-01 1.943593e-01 6.287223e-01 6.994835e-01 1.403298e-03 1.448982e-03
##         9025         9026         9027         9028         9029         9030
## 8.720784e-02 1.103395e-03 2.784063e-02 6.636133e-02 1.237547e-02 1.159131e-01
##         9031         9032         9033         9034         9035         9036
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##         9037         9038         9039         9040         9041         9042
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## 5.643130e-03 1.963207e-01 5.923773e-01 3.195847e-01 6.992807e-02 9.637012e-03
##         9049         9050         9051         9052         9053         9054
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##         9055         9056         9057         9058         9059         9060
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##         9079         9080         9081         9082         9083         9084
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##         9085         9086         9087         9088         9089         9090
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##         9091         9092         9093         9094         9095         9096
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## 3.791523e-01 2.219616e-02 1.304321e-02 9.350001e-03 1.458034e-04 4.380102e-04
##          9109         9110         9111         9112         9113         9114
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##          9115         9116         9117         9118         9119         9120
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##          9121         9122         9123         9124         9125         9126
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##          9133         9134         9135         9136         9137         9138
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##          9157         9158         9159         9160         9161         9162
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## 4.538396e-02 4.394527e-01 4.981554e-01 1.663293e-02 3.145940e-03 6.763062e-02
##          9169         9170         9171         9172         9173         9174
## 1.039853e-02 4.173022e-02 6.629483e-02 6.999923e-01 4.397584e-02 1.242554e-01
##          9175         9176         9177         9178         9179         9180
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##          9187         9188         9189         9190         9191         9192
## 2.404024e-01 1.171546e-01 8.764856e-02 2.458567e-02 9.071689e-03 2.690270e-03
##          9193         9194         9195         9196         9197         9198
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##          9217         9218         9219         9220         9221         9222
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##           9283         9284         9285         9286         9287         9288
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##           9301         9302         9303         9304         9305         9306
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##           9313         9314         9315         9316         9317         9318
## 2.365203e-01 9.382415e-02 6.309097e-02 1.779173e-01 8.657002e-02 8.277569e-02
##           9319         9320         9321         9322         9323         9324
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##           9349         9350         9351         9352         9353         9354
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##           9361         9362         9363         9364         9365         9366
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##           9367         9368         9369         9370         9371         9372
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##           9379         9380         9381         9382         9383         9384
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##           9391         9392         9393         9394         9395         9396
## 7.487939e-02 7.724558e-02 2.054023e-02 3.134590e-01 5.673254e-01 1.010453e-03
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##           9409         9410         9411         9412         9413         9414
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##           9415         9416         9417         9418         9419         9420
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##          9427         9428         9429         9430         9431         9432
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## 7.786537e-01 4.376517e-02 4.614367e-03 3.702224e-02 3.055637e-04 4.090660e-03
##          9445         9446         9447         9448         9449         9450
## 9.542375e-02 3.662174e-03 5.413388e-02 1.303452e-01 1.563584e-01 6.913138e-04
##          9451         9452         9453         9454         9455         9456
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##          9457         9458         9459         9460         9461         9462
## 6.117543e-02 3.329532e-02 1.676497e-01 1.065051e-01 5.829083e-03 7.591752e-01
##          9463         9464         9465         9466         9467         9468
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##          9469         9470         9471         9472         9473         9474
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##          9475         9476         9477         9478         9479         9480
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##          9487         9488         9489         9490         9491         9492
## 9.626982e-03 1.357439e-01 1.929482e-01 2.801636e-02 1.767875e-02 2.734023e-01
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##          9511         9512         9513         9514         9515         9516
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##          9517         9518         9519         9520         9521         9522
## 4.776817e-02 7.259636e-03 3.290820e-03 1.237219e-02 1.294940e-03 1.142978e-01
##          9523         9524         9525         9526         9527         9528
## 1.886333e-02 4.941738e-02 6.377196e-01 7.456218e-01 3.930859e-02 3.400577e-02
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##          9535         9536         9537         9538         9539         9540
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##          9541         9542         9543         9544         9545         9546
## 2.924188e-02 3.456295e-01 4.776216e-02 5.924946e-01 7.239662e-02 4.593888e-02
##          9547         9548         9549         9550         9551         9552
## 6.926345e-02 2.699203e-02 7.151705e-04 4.813502e-03 3.239234e-01 2.865150e-03
##          9553         9554         9555         9556         9557         9558
## 6.008699e-01 1.606822e-03 8.218535e-01 5.914931e-03 7.941330e-02 2.828837e-02
##          9559         9560         9561         9562         9563         9564
## 4.687075e-04 6.937715e-01 8.374472e-05 6.765758e-04 3.484838e-03 8.663993e-01
##          9565         9566         9567         9568         9569         9570
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##          9571         9572         9573         9574         9575         9576
## 9.437580e-02 1.848738e-03 1.303452e-01 1.263768e-03 1.479528e-02 2.009588e-01
##          9577         9578         9579         9580         9581         9582
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##         9601         9602         9603         9604         9605         9606
## 3.370303e-03 1.729440e-01 1.777922e-03 1.038355e-03 1.777922e-03 3.387277e-02
##         9607         9608         9609         9610         9611         9612
## 6.156943e-03 1.877371e-04 9.561834e-02 1.025073e-02 7.112395e-01 4.764449e-02
##         9613         9614         9615         9616         9617         9618
## 1.181870e-02 4.908063e-02 2.221092e-03 4.745423e-04 2.654337e-01 1.168869e-01
##         9619         9620         9621         9622         9623         9624
## 2.016396e-02 5.652466e-02 8.090609e-01 4.400677e-02 2.099697e-01 6.268614e-01
##         9625         9626         9627         9628         9629         9630
## 4.475205e-03 6.580398e-02 6.307581e-03 3.044588e-02 6.202485e-01 1.984960e-01
##         9631         9632         9633         9634         9635         9636
## 3.720792e-02 2.375757e-01 1.802391e-01 8.340601e-01 1.635966e-01 2.844669e-01
##         9637         9638         9639         9640         9641         9642
## 7.327933e-02 2.282098e-02 2.922144e-01 1.336344e-02 4.825447e-04 7.121540e-03
##         9643         9644         9645         9646         9647         9648
## 8.979846e-01 8.260694e-01 6.248847e-02 2.792905e-01 5.353737e-01 8.749520e-02
##         9649         9650         9651         9652         9653         9654
## 8.442103e-01 2.167852e-02 9.384290e-02 2.604001e-02 1.011332e-01 7.198112e-01
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##         9667         9668         9669         9670         9671         9672
## 1.862473e-01 4.957487e-02 1.105488e-01 1.699978e-02 1.374052e-01 2.503490e-02
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##         9715         9716         9717         9718         9719         9720
## 8.831417e-01 1.017099e-01 7.061480e-01 2.742459e-02 2.851395e-03 7.043798e-02
##         9721         9722         9723         9724         9725         9726
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##         9727         9728         9729         9730         9731         9732
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##         9733         9734         9735         9736         9737         9738
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##         9739         9740         9741         9742         9743         9744
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##         9763         9764         9765         9766         9767         9768
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##         9901         9902         9903         9904         9905         9906
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##          9913          9914          9915          9916          9917          9918
## 3.316711e-02 2.755850e-01 5.985100e-01 9.222381e-01 3.728287e-02 5.275097e-02
##          9919          9920          9921          9922          9923          9924
## 4.453997e-01 1.635661e-01 9.309899e-02 2.755516e-02 1.990051e-02 1.619954e-01
##          9925          9926          9927          9928          9929          9930
## 3.063439e-03 2.992652e-03 1.602486e-02 2.297097e-03 6.856423e-01 1.280518e-01
##          9931          9932          9933          9934          9935          9936
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##          9943          9944          9945          9946          9947          9948
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##          9949          9950          9951          9952          9953          9954
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##          9967          9968          9969          9970          9971          9972
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##         10015         10016         10017         10018         10019         10020
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##         10027         10028         10029         10030         10031         10032
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##         10033         10034         10035         10036         10037         10038
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##         10039         10040         10041         10042         10043         10044
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##         10045         10046         10047         10048         10049         10050
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##         10051         10052         10053         10054         10055         10056
## 1.874129e-01 6.604065e-03 4.095799e-02 4.301188e-03 2.668548e-01 2.471230e-04
##         10057         10058         10059         10060         10061         10062
## 2.281355e-02 3.890509e-01 6.530003e-04 1.201863e-02 5.846737e-01 1.568977e-01
##         10063         10064         10065         10066         10067         10068
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##           10075         10076         10077         10078         10079         10080
## 1.805442e-02 1.351157e-01 9.312434e-04 1.608554e-02 6.943293e-01 1.439035e-02
##           10081         10082         10083         10084         10085         10086
## 8.435035e-01 7.676144e-01 3.207423e-02 5.990258e-02 3.518744e-03 3.677628e-01
##           10087         10088         10089         10090         10091         10092
## 2.364110e-02 4.405446e-02 7.569712e-02 6.595657e-01 1.597856e-03 1.539981e-01
##           10093         10094         10095         10096         10097         10098
## 4.590655e-03 7.779668e-03 2.071781e-03 1.337722e-02 4.319883e-03 1.507266e-01
##           10099         10100         10101         10102         10103         10104
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##           10105         10106         10107         10108         10109         10110
## 1.080701e-01 1.721521e-03 2.399455e-03 1.784989e-03 6.994416e-04 1.252228e-01
##           10111         10112         10113         10114         10115         10116
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##           10117         10118         10119         10120         10121         10122
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##           10123         10124         10125         10126         10127         10128
## 4.171569e-02 1.005245e-01 3.059983e-02 6.330382e-03 4.764485e-03 2.333748e-03
##           10129         10130         10131         10132         10133         10134
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##           10135         10136         10137         10138         10139         10140
## 4.725289e-01 1.163034e-01 7.915526e-01 8.513086e-01 3.913860e-02 9.542375e-02
##           10141         10142         10143         10144         10145         10146
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##           10147         10148         10149         10150         10151         10152
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##           10153         10154         10155         10156         10157         10158
## 1.382715e-02 2.533109e-02 2.283590e-01 2.010897e-01 1.418791e-01 5.699395e-02
##           10159         10160         10161         10162         10163         10164
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##           10165         10166         10167         10168         10169         10170
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##           10177         10178         10179         10180         10181         10182
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##           10225         10226         10227         10228         10229         10230
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##          10243        10244        10245        10246        10247        10248
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##          10345        10346        10347        10348        10349        10350
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##          10375        10376        10377        10378        10379        10380
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##          10387        10388        10389        10390        10391        10392
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##           10405          10406          10407          10408          10409          10410
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##           10537          10538          10539          10540          10541          10542
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##           10543          10544          10545          10546          10547          10548
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##           10549          10550          10551          10552          10553          10554
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##        10993         10994         10995         10996         10997         10998
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##        11011         11012         11013         11014         11015         11016
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##        11023         11024         11025         11026         11027         11028
## 2.231763e-03 1.235170e-01 4.691228e-02 2.288782e-02 5.489976e-01 7.260581e-03
##        11029         11030         11031         11032         11033         11034
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##        11035         11036         11037         11038         11039         11040
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## 1.582816e-02 3.192830e-04 8.153098e-01 6.015862e-04 1.152595e-01 2.783419e-01
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##             11695           11696           11697           11698           11699           11700
## 1.038306e-03 7.783247e-03 6.651483e-01 3.164164e-01 1.070152e-02 5.511109e-02
##             11701           11702           11703           11704           11705           11706
## 2.334716e-01 2.472833e-01 7.453745e-01 2.580554e-01 1.589599e-01 6.030728e-04
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##             11713           11714           11715           11716           11717           11718
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##             11731           11732           11733           11734           11735           11736
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##             11737           11738           11739           11740           11741           11742
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##             11743           11744           11745           11746           11747           11748
## 3.137086e-01 2.105030e-01 1.453221e-05 1.488899e-06 1.374243e-01 6.883403e-01
##             11749           11750           11751           11752           11753           11754
## 3.972883e-03 1.602301e-03 1.541794e-01 4.878324e-01 5.489976e-01 2.693068e-02
##             11755           11756           11757           11758           11759           11760
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##             11827           11828           11829           11830           11831           11832
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##             11845           11846           11847           11848           11849           11850
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##          12229         12230         12231         12232         12233         12234
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##           12379          12380          12381          12382          12383          12384
## 2.560702e-03 2.733618e-02 4.338970e-02 3.855158e-02 7.736855e-02 7.387668e-01
##           12385          12386          12387          12388          12389          12390
## 3.119612e-05 3.669880e-02 9.747826e-04 3.263224e-04 8.698099e-02 5.093953e-03
##           12391          12392          12393          12394          12395          12396
## 8.868260e-01 6.676730e-03 1.201955e-01 6.495165e-02 1.444706e-01 2.437926e-03
##           12397          12398          12399          12400          12401          12402
## 8.349755e-02 3.904571e-04 6.366135e-03 4.456132e-03 1.410512e-01 1.763908e-01
##           12403          12404          12405          12406          12407          12408
## 3.399043e-01 5.928331e-02 2.939217e-01 8.883132e-01 1.406268e-01 2.425138e-02
##           12409          12410          12411          12412          12413          12414
## 2.396167e-01 3.250439e-02 1.165424e-01 2.861358e-03 7.571580e-01 3.678731e-03
##           12415          12416          12417          12418          12419          12420
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##           12421          12422          12423          12424          12425          12426
## 1.109116e-02 3.182600e-03 4.909431e-02 2.487404e-02 4.761299e-03 1.871188e-02
##           12427          12428          12429          12430          12431          12432
## 1.730728e-01 3.570631e-01 2.374338e-01 3.662174e-03 7.740031e-01 1.667159e-02
##           12433          12434          12435          12436          12437          12438
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##           12439          12440          12441          12442          12443          12444
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##           12445          12446          12447          12448          12449          12450
## 6.337302e-01 9.129027e-02 3.555628e-03 3.905529e-02 2.533719e-02 3.614059e-03
##           12451          12452          12453          12454          12455          12456
## 8.979675e-02 3.507706e-03 2.728512e-02 9.833364e-02 2.437358e-03 3.440484e-03
##           12457          12458          12459          12460          12461          12462
## 4.265167e-03 4.362411e-02 4.510418e-01 7.753583e-02 2.359283e-03 5.048507e-02
##           12463          12464          12465          12466          12467          12468
## 1.177613e-03 1.013783e-01 1.048363e-02 1.871188e-02 1.832016e-01 6.181740e-03
##           12469          12470          12471          12472          12473          12474
## 3.826074e-02 6.137201e-01 1.402767e-02 7.468242e-03 2.226159e-02 3.235738e-03
##           12475          12476          12477          12478          12479          12480
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##           12481          12482          12483          12484          12485          12486
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##           12487          12488          12489          12490          12491          12492
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##          12511          12512          12513          12514          12515          12516
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##          12517          12518          12519          12520          12521          12522
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##          12523          12524          12525          12526          12527          12528
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##          12529          12530          12531          12532          12533          12534
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##          12541          12542          12543          12544          12545          12546
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##          12619          12620          12621          12622          12623          12624
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##          12649          12650          12651          12652          12653          12654
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##          12817          12818          12819          12820          12821          12822
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##        12835       12836       12837       12838       12839       12840
## 8.797285e-03 4.057280e-01 8.305657e-03 7.348336e-03 1.199104e-01 5.473351e-02
##        12841       12842       12843       12844       12845       12846
## 8.578089e-01 8.767669e-01 6.657762e-01 7.824832e-03 4.174483e-02 8.861664e-01
##        12847       12848       12849       12850       12851       12852
## 1.410166e-01 8.906725e-01 2.597352e-01 1.290483e-01 1.313173e-04 2.249986e-01
##        12853       12854       12855       12856       12857       12858
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##        12859       12860       12861       12862       12863       12864
## 1.084638e-01 2.981875e-02 2.535680e-02 5.852114e-03 1.364821e-02 7.726024e-03
##        12865       12866       12867       12868       12869       12870
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##        12871       12872       12873       12874       12875       12876
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##        12877       12878       12879       12880       12881       12882
## 6.402472e-01 3.254515e-01 2.069184e-01 3.884296e-02 1.144914e-02 5.584673e-01
##        12883       12884       12885       12886       12887       12888
## 7.661888e-02 7.401591e-03 3.951272e-02 1.345049e-02 2.827702e-01 1.488441e-05
##        12889       12890       12891       12892       12893       12894
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##        12907       12908       12909       12910       12911       12912
## 1.995035e-01 9.733472e-02 7.160821e-01 3.777476e-03 3.891856e-03 1.682775e-03
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##        12919       12920       12921       12922       12923       12924
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##        12925       12926       12927       12928       12929       12930
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##        12937       12938       12939       12940       12941       12942
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##        12967       12968       12969       12970       12971       12972
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## 9.288792e-04 8.521793e-02 1.366744e-01 1.201358e-03 3.839605e-02 4.762685e-02
##            13777           13778           13779           13780           13781           13782
## 4.869718e-03 5.869316e-03 4.315956e-02 8.621153e-01 3.383558e-02 1.926869e-02
##            13783           13784           13785           13786           13787           13788
## 1.649034e-01 5.644781e-03 8.703202e-01 1.341736e-02 6.314223e-04 6.021133e-03
##            13789           13790           13791           13792           13793           13794
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## 1.462361e-02 2.014913e-02 1.973239e-03 5.410420e-02 5.281329e-02 4.125215e-02
##           13807          13808          13809          13810          13811          13812
## 1.232789e-01 8.877831e-01 5.019317e-02 2.046660e-01 2.792905e-01 2.220158e-01
##           13813          13814          13815          13816          13817          13818
## 2.348950e-01 1.575540e-04 9.027139e-01 6.588696e-02 7.508350e-02 4.406981e-02
##           13819          13820          13821          13822          13823          13824
## 1.972547e-01 2.285651e-01 1.044432e-01 1.553843e-01 8.066442e-01 2.397625e-01
##           13825          13826          13827          13828          13829          13830
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##           13831          13832          13833          13834          13835          13836
## 7.487202e-02 3.235569e-01 1.089151e-01 1.043472e-03 6.427789e-01 1.338881e-02
##           13837          13838          13839          13840          13841          13842
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##           13843          13844          13845          13846          13847          13848
## 2.338950e-02 1.391809e-03 4.498692e-02 5.151209e-02 3.149846e-03 6.913048e-02
##           13849          13850          13851          13852          13853          13854
## 1.279320e-01 5.422985e-01 2.465829e-03 8.031958e-01 1.125954e-02 6.877407e-01
##           13855          13856          13857          13858          13859          13860
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##           13861          13862          13863          13864          13865          13866
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## 6.258424e-02 7.947297e-01 7.464075e-02 6.134466e-02 8.871092e-01 4.989534e-04
##           13873          13874          13875          13876          13877          13878
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##           13879          13880          13881          13882          13883          13884
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##           13885          13886          13887          13888          13889          13890
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##           13891          13892          13893          13894          13895          13896
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##           13915          13916          13917          13918          13919          13920
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##           13921          13922          13923          13924          13925          13926
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##           13939          13940          13941          13942          13943          13944
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##           13945          13946          13947          13948          13949          13950
## 1.291869e-01 1.754576e-02 9.089254e-02 7.610669e-03 7.611730e-02 8.119283e-04
##           13951          13952          13953          13954          13955          13956
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##           13975          13976          13977          13978          13979          13980
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##           14023          14024          14025          14026          14027          14028
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##           14101          14102          14103          14104          14105          14106
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##           14107          14108          14109          14110          14111          14112
## 1.168210e-01 1.350795e-02 2.376481e-01 1.205705e-01 1.569839e-01 6.526970e-01
##           14113          14114          14115          14116          14117          14118
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##           14131         14132         14133         14134         14135         14136
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##           14143         14144         14145         14146         14147         14148
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##           14149         14150         14151         14152         14153         14154
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##           14161         14162         14163         14164         14165         14166
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##           14167         14168         14169         14170         14171         14172
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##           14173         14174         14175         14176         14177         14178
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##           14179         14180         14181         14182         14183         14184
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##           14245         14246         14247         14248         14249         14250
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## 2.163373e-01 1.514017e-01 7.745500e-01 4.949270e-03 1.109630e-03 1.054537e-02
##          15853          15854          15855          15856          15857          15858
## 3.531183e-03 3.045593e-03 5.956266e-03 6.855266e-02 3.758639e-04 3.957899e-02
##          15859          15860          15861          15862          15863          15864
## 9.572076e-02 1.131026e-03 1.058035e-02 2.261878e-02 7.745500e-01 7.397445e-01
##          15865          15866          15867          15868          15869          15870
## 1.057287e-01 7.168842e-01 1.119804e-01 2.915351e-01 5.709781e-04 3.430384e-01
##          15871          15872          15873          15874          15875          15876
## 9.443628e-04 1.320118e-01 2.225586e-02 3.671284e-02 1.612478e-02 9.253350e-02
##          15877          15878          15879          15880          15881          15882
## 9.083710e-01 2.149396e-01 5.526999e-02 8.373603e-02 9.343746e-03 4.993911e-02
##          15883          15884          15885          15886          15887          15888
## 2.849523e-01 9.881880e-04 6.729574e-01 3.349150e-03 7.471909e-02 4.549575e-03
##          15889          15890          15891          15892          15893          15894
## 5.263790e-02 4.531808e-02 5.001098e-04 5.170983e-04 8.066501e-01 1.502939e-03
##          15895          15896          15897          15898          15899          15900
## 1.278005e-01 2.152146e-02 7.465839e-05 1.425617e-03 5.370022e-01 9.445716e-02
```

```
##        15901          15902          15903          15904          15905          15906
## 2.101271e-01 4.616631e-01 4.888944e-03 9.996355e-04 3.840826e-03 1.491612e-03
##        15907          15908          15909          15910          15911          15912
## 4.354101e-02 1.084638e-01 7.008848e-01 1.218078e-01 7.773969e-03 6.756701e-01
##        15913          15914          15915          15916          15917          15918
## 9.669406e-03 7.127930e-03 3.343531e-04 1.130032e-01 5.810339e-04 4.923562e-03
##        15919          15920          15921          15922          15923          15924
## 1.160363e-01 6.554251e-01 1.227384e-03 1.172899e-03 4.866617e-04 1.835973e-03
##        15925          15926          15927          15928          15929          15930
## 5.991724e-03 3.031798e-02 2.049979e-03 9.387165e-02 4.214342e-01 9.815494e-02
##        15931          15932          15933          15934          15935          15936
## 8.339831e-04 1.928864e-03 3.193186e-01 1.863362e-04 4.817114e-01 7.457083e-04
##        15937          15938          15939          15940          15941          15942
## 3.987052e-01 7.355899e-04 2.632180e-01 8.677830e-02 8.444535e-02 1.288829e-01
##        15943          15944          15945          15946          15947          15948
## 1.044432e-01 3.074168e-05 1.338903e-02 1.585965e-01 8.246688e-02 1.432275e-02
##        15949          15950          15951          15952          15953          15954
## 6.236896e-02 8.441836e-02 1.281734e-01 1.632937e-02 8.511390e-01 3.147971e-01
##        15955          15956          15957          15958          15959          15960
## 1.551667e-04 1.019597e-01 2.208466e-02 4.936735e-02 2.787106e-01 4.591790e-02
```

```
summary(logitMod)
```

```
##
## Call:
## glm(formula = default ~ price + pmttype_1 + pmttype_2 + pmttype_3 +
##     pmttype_4 + pmttype_5 + use + downpmt, family = binomial(link = "logit"),
##     data = trainingData)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.7352  -0.4020   0.0589   0.5743   3.6376
##
## Coefficients: (2 not defined because of singularities)
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -1.1641025  0.1980436  -5.878 4.15e-09 ***
## price        0.0010729  0.0001454   7.377 1.62e-13 ***
## pmttype_1    2.8821911  0.1543902  18.668  < 2e-16 ***
## pmttype_2          NA         NA      NA       NA
## pmttype_3    1.9457929  0.1547003  12.578  < 2e-16 ***
## pmttype_4   -1.1896313  0.2330784  -5.104 3.33e-07 ***
## pmttype_5          NA         NA      NA       NA
## use         -0.7311093  0.0416065 -17.572  < 2e-16 ***
## downpmt     -0.0123442  0.0008974 -13.756  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 5284.6  on 3811  degrees of freedom
## Residual deviance: 2775.9  on 3805  degrees of freedom
## AIC: 2789.9
##
## Number of Fisher Scoring iterations: 6
```

4. Display the output visually using charts of your choosing and explain your choice. (ROC Curve)

```
#install.packages("InformationValue")
library(InformationValue)
plotROC(testData$default, predicted)
```


ROC Curve

AUROC: 0.9069

y-axis: Sensitivity (TPR)
x-axis: 1−Specificity (FPR)