

HW4_tianjiang

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P2

```
tolerance<-0.000001
alpha<-0.0001
set.seed(12506)
theta <- as.matrix(c(1,2),nrow=2)
X <- cbind(1,rep(1:10,10))
h <- X%%theta+rnorm(100,0,0.2)
lm(h~0+X)#lm(h~X[,2]) same
```

```
##
## Call:
## lm(formula = h ~ 0 + X)
##
## Coefficients:
##      X1      X2
## 0.9085  2.0085
```

```
theta <- cbind(theta, theta-c(alpha/100*apply(X%%theta-h,2,sum),alpha/100*apply(t(X%%theta-h)%*%X[,2],
i<-2
while((abs(theta[1,i]-theta[1,i-1])>tolerance)&(abs(theta[2,i]-theta[2,i-1])>tolerance))
{theta <- cbind(theta, theta[1,i-1]-c(alpha/100*apply(X%%theta[,i-1]-h,2,sum),alpha/100*apply(t(X%%theta-h)%*%X[,2],
i<-(i+1)#already have this many pairs
}
thetafinal<-rbind(theta[1,i],theta[2,i])
thetafinal
```

```
##           [,1]
## [1,] 0.9999955
## [2,] 0.9999823
```

P3

```
#peraperations
theta <- as.matrix(c(1,2),nrow=2)
X <- cbind(1,rep(1:10,10))
```

```

h <- X%%theta+rnorm(100,0,0.2)
library(parallel)
theta0<-seq(0.9696-1,0.9696+1, length=10000)
theta1<-seq(2.0016-1,2.0016+1, length=10000)
thetabegin<-as.matrix(rbind(theta0,theta1))
cores<-detectCores()
cl<-makeForkCluster(cores)
registerDoParallel(cl)
tolerance<-10(-9)
alpha<-10(-7)
#parallel
listP3<-foreach(j=1:10000,.combine = rbind) %dopar%
{theta <- thetabegin[,j]

theta <- cbind(theta, theta-c(alpha/100*apply(X%%theta-h,2,sum),alpha/100*apply(t(X%%theta-h)%*%X[,2],
i<-2
while((abs(theta[1,i]-theta[1,i-1])>tolerance)&(abs(theta[2,i]-theta[2,i-1])>tolerance)&i<5000000)
{theta <- cbind(theta, theta[1,i-1]-c(alpha/100*apply(X%%theta[,i-1]-h,2,sum),alpha/100*apply(t(X%%theta
i<-(i+1)#already have this many pairs
}

thetafinal<-{rbind(theta[1,i],theta[2,i])}
c(i,thetafinal)
}

listP3.1<-as.data.frame(listP3)
colnames(listP3.1)<-c('rounds','beta0','beta1')
listP3.1

```

##	rounds	beta0	beta1
## result.1	3	-3.039935e-02	-3.039559e-02
## result.2	3	-3.019933e-02	-3.019557e-02
## result.3	3	-2.999931e-02	-2.999555e-02
## result.4	3	-2.979929e-02	-2.979553e-02
## result.5	3	-2.959927e-02	-2.959552e-02
## result.6	3	-2.939925e-02	-2.939550e-02
## result.7	3	-2.919923e-02	-2.919548e-02
## result.8	3	-2.899921e-02	-2.899546e-02
## result.9	3	-2.879919e-02	-2.879544e-02
## result.10	3	-2.859917e-02	-2.859542e-02
## result.11	3	-2.839915e-02	-2.839540e-02
## result.12	3	-2.819913e-02	-2.819538e-02
## result.13	3	-2.799911e-02	-2.799536e-02
## result.14	3	-2.779909e-02	-2.779534e-02
## result.15	3	-2.759907e-02	-2.759532e-02
## result.16	3	-2.739905e-02	-2.739531e-02
## result.17	3	-2.719903e-02	-2.719529e-02
## result.18	3	-2.699901e-02	-2.699527e-02
## result.19	3	-2.679899e-02	-2.679525e-02
## result.20	3	-2.659897e-02	-2.659523e-02
## result.21	3	-2.639895e-02	-2.639521e-02
## result.22	3	-2.619893e-02	-2.619519e-02
## result.23	3	-2.599891e-02	-2.599517e-02

## result.24	3	-2.579889e-02	-2.579515e-02
## result.25	3	-2.559887e-02	-2.559513e-02
## result.26	3	-2.539885e-02	-2.539511e-02
## result.27	3	-2.519883e-02	-2.519509e-02
## result.28	3	-2.499881e-02	-2.499508e-02
## result.29	3	-2.479879e-02	-2.479506e-02
## result.30	3	-2.459877e-02	-2.459504e-02
## result.31	3	-2.439875e-02	-2.439502e-02
## result.32	3	-2.419873e-02	-2.419500e-02
## result.33	3	-2.399871e-02	-2.399498e-02
## result.34	3	-2.379869e-02	-2.379496e-02
## result.35	3	-2.359867e-02	-2.359494e-02
## result.36	3	-2.339865e-02	-2.339492e-02
## result.37	3	-2.319863e-02	-2.319490e-02
## result.38	3	-2.299861e-02	-2.299488e-02
## result.39	3	-2.279859e-02	-2.279487e-02
## result.40	3	-2.259857e-02	-2.259485e-02
## result.41	3	-2.239855e-02	-2.239483e-02
## result.42	3	-2.219853e-02	-2.219481e-02
## result.43	3	-2.199851e-02	-2.199479e-02
## result.44	3	-2.179849e-02	-2.179477e-02
## result.45	3	-2.159847e-02	-2.159475e-02
## result.46	3	-2.139845e-02	-2.139473e-02
## result.47	3	-2.119843e-02	-2.119471e-02
## result.48	3	-2.099841e-02	-2.099469e-02
## result.49	3	-2.079839e-02	-2.079467e-02
## result.50	3	-2.059837e-02	-2.059465e-02
## result.51	3	-2.039835e-02	-2.039464e-02
## result.52	3	-2.019833e-02	-2.019462e-02
## result.53	3	-1.999831e-02	-1.999460e-02
## result.54	3	-1.979829e-02	-1.979458e-02
## result.55	3	-1.959827e-02	-1.959456e-02
## result.56	3	-1.939825e-02	-1.939454e-02
## result.57	3	-1.919823e-02	-1.919452e-02
## result.58	3	-1.899822e-02	-1.899450e-02
## result.59	3	-1.879820e-02	-1.879448e-02
## result.60	3	-1.859818e-02	-1.859446e-02
## result.61	3	-1.839816e-02	-1.839444e-02
## result.62	3	-1.819814e-02	-1.819443e-02
## result.63	3	-1.799812e-02	-1.799441e-02
## result.64	3	-1.779810e-02	-1.779439e-02
## result.65	3	-1.759808e-02	-1.759437e-02
## result.66	3	-1.739806e-02	-1.739435e-02
## result.67	3	-1.719804e-02	-1.719433e-02
## result.68	3	-1.699802e-02	-1.699431e-02
## result.69	3	-1.679800e-02	-1.679429e-02
## result.70	3	-1.659798e-02	-1.659427e-02
## result.71	3	-1.639796e-02	-1.639425e-02
## result.72	3	-1.619794e-02	-1.619423e-02
## result.73	3	-1.599792e-02	-1.599422e-02
## result.74	3	-1.579790e-02	-1.579420e-02
## result.75	3	-1.559788e-02	-1.559418e-02
## result.76	3	-1.539786e-02	-1.539416e-02
## result.77	3	-1.519784e-02	-1.519414e-02

## result.78	3	-1.499782e-02	-1.499412e-02
## result.79	3	-1.479780e-02	-1.479410e-02
## result.80	3	-1.459778e-02	-1.459408e-02
## result.81	3	-1.439776e-02	-1.439406e-02
## result.82	3	-1.419774e-02	-1.419404e-02
## result.83	3	-1.399772e-02	-1.399402e-02
## result.84	3	-1.379770e-02	-1.379400e-02
## result.85	3	-1.359768e-02	-1.359399e-02
## result.86	3	-1.339766e-02	-1.339397e-02
## result.87	3	-1.319764e-02	-1.319395e-02
## result.88	3	-1.299762e-02	-1.299393e-02
## result.89	3	-1.279760e-02	-1.279391e-02
## result.90	3	-1.259758e-02	-1.259389e-02
## result.91	3	-1.239756e-02	-1.239387e-02
## result.92	3	-1.219754e-02	-1.219385e-02
## result.93	3	-1.199752e-02	-1.199383e-02
## result.94	3	-1.179750e-02	-1.179381e-02
## result.95	3	-1.159748e-02	-1.159379e-02
## result.96	3	-1.139746e-02	-1.139378e-02
## result.97	3	-1.119744e-02	-1.119376e-02
## result.98	3	-1.099742e-02	-1.099374e-02
## result.99	3	-1.079740e-02	-1.079372e-02
## result.100	3	-1.059738e-02	-1.059370e-02
## result.101	3	-1.039736e-02	-1.039368e-02
## result.102	3	-1.019734e-02	-1.019366e-02
## result.103	3	-9.997321e-03	-9.993641e-03
## result.104	3	-9.797301e-03	-9.793622e-03
## result.105	3	-9.597281e-03	-9.593603e-03
## result.106	3	-9.397261e-03	-9.393584e-03
## result.107	3	-9.197241e-03	-9.193565e-03
## result.108	3	-8.997221e-03	-8.993546e-03
## result.109	3	-8.797202e-03	-8.793527e-03
## result.110	3	-8.597182e-03	-8.593508e-03
## result.111	3	-8.397162e-03	-8.393488e-03
## result.112	3	-8.197142e-03	-8.193469e-03
## result.113	3	-7.997122e-03	-7.993450e-03
## result.114	3	-7.797102e-03	-7.793431e-03
## result.115	3	-7.597082e-03	-7.593412e-03
## result.116	3	-7.397062e-03	-7.393393e-03
## result.117	3	-7.197043e-03	-7.193374e-03
## result.118	3	-6.997023e-03	-6.993355e-03
## result.119	3	-6.797003e-03	-6.793335e-03
## result.120	3	-6.596983e-03	-6.593316e-03
## result.121	3	-6.396963e-03	-6.393297e-03
## result.122	3	-6.196943e-03	-6.193278e-03
## result.123	3	-5.996923e-03	-5.993259e-03
## result.124	3	-5.796903e-03	-5.793240e-03
## result.125	3	-5.596884e-03	-5.593221e-03
## result.126	3	-5.396864e-03	-5.393202e-03
## result.127	3	-5.196844e-03	-5.193183e-03
## result.128	3	-4.996824e-03	-4.993163e-03
## result.129	3	-4.796804e-03	-4.793144e-03
## result.130	3	-4.596784e-03	-4.593125e-03
## result.131	3	-4.396764e-03	-4.393106e-03

## result.132	3	-4.196744e-03	-4.193087e-03
## result.133	3	-3.996725e-03	-3.993068e-03
## result.134	3	-3.796705e-03	-3.793049e-03
## result.135	3	-3.596685e-03	-3.593030e-03
## result.136	3	-3.396665e-03	-3.393010e-03
## result.137	3	-3.196645e-03	-3.192991e-03
## result.138	3	-2.996625e-03	-2.992972e-03
## result.139	3	-2.796605e-03	-2.792953e-03
## result.140	3	-2.596586e-03	-2.592934e-03
## result.141	3	-2.396566e-03	-2.392915e-03
## result.142	3	-2.196546e-03	-2.192896e-03
## result.143	3	-1.996526e-03	-1.992877e-03
## result.144	3	-1.796506e-03	-1.792857e-03
## result.145	3	-1.596486e-03	-1.592838e-03
## result.146	3	-1.396466e-03	-1.392819e-03
## result.147	3	-1.196446e-03	-1.192800e-03
## result.148	3	-9.964265e-04	-9.927810e-04
## result.149	3	-7.964067e-04	-7.927618e-04
## result.150	3	-5.963868e-04	-5.927427e-04
## result.151	3	-3.963669e-04	-3.927236e-04
## result.152	3	-1.963471e-04	-1.927045e-04
## result.153	3	3.672819e-06	7.314653e-06
## result.154	3	2.036927e-04	2.073338e-04
## result.155	3	4.037126e-04	4.073529e-04
## result.156	3	6.037324e-04	6.073720e-04
## result.157	3	8.037523e-04	8.073911e-04
## result.158	3	1.003772e-03	1.007410e-03
## result.159	3	1.203792e-03	1.207429e-03
## result.160	3	1.403812e-03	1.407449e-03
## result.161	3	1.603832e-03	1.607468e-03
## result.162	3	1.803852e-03	1.807487e-03
## result.163	3	2.003872e-03	2.007506e-03
## result.164	3	2.203891e-03	2.207525e-03
## result.165	3	2.403911e-03	2.407544e-03
## result.166	3	2.603931e-03	2.607563e-03
## result.167	3	2.803951e-03	2.807582e-03
## result.168	3	3.003971e-03	3.007601e-03
## result.169	3	3.203991e-03	3.207621e-03
## result.170	3	3.404011e-03	3.407640e-03
## result.171	3	3.604031e-03	3.607659e-03
## result.172	3	3.804050e-03	3.807678e-03
## result.173	3	4.004070e-03	4.007697e-03
## result.174	3	4.204090e-03	4.207716e-03
## result.175	3	4.404110e-03	4.407735e-03
## result.176	3	4.604130e-03	4.607754e-03
## result.177	3	4.804150e-03	4.807774e-03
## result.178	3	5.004170e-03	5.007793e-03
## result.179	3	5.204189e-03	5.207812e-03
## result.180	3	5.404209e-03	5.407831e-03
## result.181	3	5.604229e-03	5.607850e-03
## result.182	3	5.804249e-03	5.807869e-03
## result.183	3	6.004269e-03	6.007888e-03
## result.184	3	6.204289e-03	6.207907e-03
## result.185	3	6.404309e-03	6.407927e-03

## result.186	3	6.604329e-03	6.607946e-03
## result.187	3	6.804348e-03	6.807965e-03
## result.188	3	7.004368e-03	7.007984e-03
## result.189	3	7.204388e-03	7.208003e-03
## result.190	3	7.404408e-03	7.408022e-03
## result.191	3	7.604428e-03	7.608041e-03
## result.192	3	7.804448e-03	7.808060e-03
## result.193	3	8.004468e-03	8.008080e-03
## result.194	3	8.204488e-03	8.208099e-03
## result.195	3	8.404507e-03	8.408118e-03
## result.196	3	8.604527e-03	8.608137e-03
## result.197	3	8.804547e-03	8.808156e-03
## result.198	3	9.004567e-03	9.008175e-03
## result.199	3	9.204587e-03	9.208194e-03
## result.200	3	9.404607e-03	9.408213e-03
## result.201	3	9.604627e-03	9.608233e-03
## result.202	3	9.804647e-03	9.808252e-03
## result.203	3	1.000467e-02	1.000827e-02
## result.204	3	1.020469e-02	1.020829e-02
## result.205	3	1.040471e-02	1.040831e-02
## result.206	3	1.060473e-02	1.060833e-02
## result.207	3	1.080475e-02	1.080835e-02
## result.208	3	1.100477e-02	1.100837e-02
## result.209	3	1.120479e-02	1.120839e-02
## result.210	3	1.140481e-02	1.140840e-02
## result.211	3	1.160483e-02	1.160842e-02
## result.212	3	1.180485e-02	1.180844e-02
## result.213	3	1.200487e-02	1.200846e-02
## result.214	3	1.220489e-02	1.220848e-02
## result.215	3	1.240490e-02	1.240850e-02
## result.216	3	1.260492e-02	1.260852e-02
## result.217	3	1.280494e-02	1.280854e-02
## result.218	3	1.300496e-02	1.300856e-02
## result.219	3	1.320498e-02	1.320858e-02
## result.220	3	1.340500e-02	1.340860e-02
## result.221	3	1.360502e-02	1.360861e-02
## result.222	3	1.380504e-02	1.380863e-02
## result.223	3	1.400506e-02	1.400865e-02
## result.224	3	1.420508e-02	1.420867e-02
## result.225	3	1.440510e-02	1.440869e-02
## result.226	3	1.460512e-02	1.460871e-02
## result.227	3	1.480514e-02	1.480873e-02
## result.228	3	1.500516e-02	1.500875e-02
## result.229	3	1.520518e-02	1.520877e-02
## result.230	3	1.540520e-02	1.540879e-02
## result.231	3	1.560522e-02	1.560881e-02
## result.232	3	1.580524e-02	1.580883e-02
## result.233	3	1.600526e-02	1.600884e-02
## result.234	3	1.620528e-02	1.620886e-02
## result.235	3	1.640530e-02	1.640888e-02
## result.236	3	1.660532e-02	1.660890e-02
## result.237	3	1.680534e-02	1.680892e-02
## result.238	3	1.700536e-02	1.700894e-02
## result.239	3	1.720538e-02	1.720896e-02

## result.240	3	1.740540e-02	1.740898e-02
## result.241	3	1.760542e-02	1.760900e-02
## result.242	3	1.780544e-02	1.780902e-02
## result.243	3	1.800546e-02	1.800904e-02
## result.244	3	1.820548e-02	1.820905e-02
## result.245	3	1.840550e-02	1.840907e-02
## result.246	3	1.860552e-02	1.860909e-02
## result.247	3	1.880554e-02	1.880911e-02
## result.248	3	1.900556e-02	1.900913e-02
## result.249	3	1.920558e-02	1.920915e-02
## result.250	3	1.940560e-02	1.940917e-02
## result.251	3	1.960562e-02	1.960919e-02
## result.252	3	1.980564e-02	1.980921e-02
## result.253	3	2.000566e-02	2.000923e-02
## result.254	3	2.020568e-02	2.020925e-02
## result.255	3	2.040570e-02	2.040927e-02
## result.256	3	2.060572e-02	2.060928e-02
## result.257	3	2.080574e-02	2.080930e-02
## result.258	3	2.100576e-02	2.100932e-02
## result.259	3	2.120578e-02	2.120934e-02
## result.260	3	2.140580e-02	2.140936e-02
## result.261	3	2.160582e-02	2.160938e-02
## result.262	3	2.180584e-02	2.180940e-02
## result.263	3	2.200586e-02	2.200942e-02
## result.264	3	2.220588e-02	2.220944e-02
## result.265	3	2.240590e-02	2.240946e-02
## result.266	3	2.260592e-02	2.260948e-02
## result.267	3	2.280594e-02	2.280949e-02
## result.268	3	2.300596e-02	2.300951e-02
## result.269	3	2.320598e-02	2.320953e-02
## result.270	3	2.340600e-02	2.340955e-02
## result.271	3	2.360602e-02	2.360957e-02
## result.272	3	2.380604e-02	2.380959e-02
## result.273	3	2.400606e-02	2.400961e-02
## result.274	3	2.420608e-02	2.420963e-02
## result.275	3	2.440610e-02	2.440965e-02
## result.276	3	2.460612e-02	2.460967e-02
## result.277	3	2.480614e-02	2.480969e-02
## result.278	3	2.500616e-02	2.500970e-02
## result.279	3	2.520618e-02	2.520972e-02
## result.280	3	2.540620e-02	2.540974e-02
## result.281	3	2.560622e-02	2.560976e-02
## result.282	3	2.580624e-02	2.580978e-02
## result.283	3	2.600626e-02	2.600980e-02
## result.284	3	2.620628e-02	2.620982e-02
## result.285	3	2.640630e-02	2.640984e-02
## result.286	3	2.660632e-02	2.660986e-02
## result.287	3	2.680634e-02	2.680988e-02
## result.288	3	2.700636e-02	2.700990e-02
## result.289	3	2.720638e-02	2.720992e-02
## result.290	3	2.740640e-02	2.740993e-02
## result.291	3	2.760642e-02	2.760995e-02
## result.292	3	2.780644e-02	2.780997e-02
## result.293	3	2.800645e-02	2.800999e-02

## result.294	3	2.820647e-02	2.821001e-02
## result.295	3	2.840649e-02	2.841003e-02
## result.296	3	2.860651e-02	2.861005e-02
## result.297	3	2.880653e-02	2.881007e-02
## result.298	3	2.900655e-02	2.901009e-02
## result.299	3	2.920657e-02	2.921011e-02
## result.300	3	2.940659e-02	2.941013e-02
## result.301	3	2.960661e-02	2.961014e-02
## result.302	3	2.980663e-02	2.981016e-02
## result.303	3	3.000665e-02	3.001018e-02
## result.304	3	3.020667e-02	3.021020e-02
## result.305	3	3.040669e-02	3.041022e-02
## result.306	3	3.060671e-02	3.061024e-02
## result.307	3	3.080673e-02	3.081026e-02
## result.308	3	3.100675e-02	3.101028e-02
## result.309	3	3.120677e-02	3.121030e-02
## result.310	3	3.140679e-02	3.141032e-02
## result.311	3	3.160681e-02	3.161034e-02
## result.312	3	3.180683e-02	3.181036e-02
## result.313	3	3.200685e-02	3.201037e-02
## result.314	3	3.220687e-02	3.221039e-02
## result.315	3	3.240689e-02	3.241041e-02
## result.316	3	3.260691e-02	3.261043e-02
## result.317	3	3.280693e-02	3.281045e-02
## result.318	3	3.300695e-02	3.301047e-02
## result.319	3	3.320697e-02	3.321049e-02
## result.320	3	3.340699e-02	3.341051e-02
## result.321	3	3.360701e-02	3.361053e-02
## result.322	3	3.380703e-02	3.381055e-02
## result.323	3	3.400705e-02	3.401057e-02
## result.324	3	3.420707e-02	3.421058e-02
## result.325	3	3.440709e-02	3.441060e-02
## result.326	3	3.460711e-02	3.461062e-02
## result.327	3	3.480713e-02	3.481064e-02
## result.328	3	3.500715e-02	3.501066e-02
## result.329	3	3.520717e-02	3.521068e-02
## result.330	3	3.540719e-02	3.541070e-02
## result.331	3	3.560721e-02	3.561072e-02
## result.332	3	3.580723e-02	3.581074e-02
## result.333	3	3.600725e-02	3.601076e-02
## result.334	3	3.620727e-02	3.621078e-02
## result.335	3	3.640729e-02	3.641079e-02
## result.336	3	3.660731e-02	3.661081e-02
## result.337	3	3.680733e-02	3.681083e-02
## result.338	3	3.700735e-02	3.701085e-02
## result.339	3	3.720737e-02	3.721087e-02
## result.340	3	3.740739e-02	3.741089e-02
## result.341	3	3.760741e-02	3.761091e-02
## result.342	3	3.780743e-02	3.781093e-02
## result.343	3	3.800745e-02	3.801095e-02
## result.344	3	3.820747e-02	3.821097e-02
## result.345	3	3.840749e-02	3.841099e-02
## result.346	3	3.860751e-02	3.861101e-02
## result.347	3	3.880753e-02	3.881102e-02

## result.348	3	3.900755e-02	3.901104e-02
## result.349	3	3.920757e-02	3.921106e-02
## result.350	3	3.940759e-02	3.941108e-02
## result.351	3	3.960761e-02	3.961110e-02
## result.352	3	3.980763e-02	3.981112e-02
## result.353	3	4.000765e-02	4.001114e-02
## result.354	3	4.020767e-02	4.021116e-02
## result.355	3	4.040769e-02	4.041118e-02
## result.356	3	4.060771e-02	4.061120e-02
## result.357	3	4.080773e-02	4.081122e-02
## result.358	3	4.100775e-02	4.101123e-02
## result.359	3	4.120777e-02	4.121125e-02
## result.360	3	4.140779e-02	4.141127e-02
## result.361	3	4.160781e-02	4.161129e-02
## result.362	3	4.180783e-02	4.181131e-02
## result.363	3	4.200785e-02	4.201133e-02
## result.364	3	4.220787e-02	4.221135e-02
## result.365	3	4.240789e-02	4.241137e-02
## result.366	3	4.260791e-02	4.261139e-02
## result.367	3	4.280793e-02	4.281141e-02
## result.368	3	4.300795e-02	4.301143e-02
## result.369	3	4.320797e-02	4.321144e-02
## result.370	3	4.340799e-02	4.341146e-02
## result.371	3	4.360800e-02	4.361148e-02
## result.372	3	4.380802e-02	4.381150e-02
## result.373	3	4.400804e-02	4.401152e-02
## result.374	3	4.420806e-02	4.421154e-02
## result.375	3	4.440808e-02	4.441156e-02
## result.376	3	4.460810e-02	4.461158e-02
## result.377	3	4.480812e-02	4.481160e-02
## result.378	3	4.500814e-02	4.501162e-02
## result.379	3	4.520816e-02	4.521164e-02
## result.380	3	4.540818e-02	4.541166e-02
## result.381	3	4.560820e-02	4.561167e-02
## result.382	3	4.580822e-02	4.581169e-02
## result.383	3	4.600824e-02	4.601171e-02
## result.384	3	4.620826e-02	4.621173e-02
## result.385	3	4.640828e-02	4.641175e-02
## result.386	3	4.660830e-02	4.661177e-02
## result.387	3	4.680832e-02	4.681179e-02
## result.388	3	4.700834e-02	4.701181e-02
## result.389	3	4.720836e-02	4.721183e-02
## result.390	3	4.740838e-02	4.741185e-02
## result.391	3	4.760840e-02	4.761187e-02
## result.392	3	4.780842e-02	4.781188e-02
## result.393	3	4.800844e-02	4.801190e-02
## result.394	3	4.820846e-02	4.821192e-02
## result.395	3	4.840848e-02	4.841194e-02
## result.396	3	4.860850e-02	4.861196e-02
## result.397	3	4.880852e-02	4.881198e-02
## result.398	3	4.900854e-02	4.901200e-02
## result.399	3	4.920856e-02	4.921202e-02
## result.400	3	4.940858e-02	4.941204e-02
## result.401	3	4.960860e-02	4.961206e-02

## result.402	3	4.980862e-02	4.981208e-02
## result.403	3	5.000864e-02	5.001210e-02
## result.404	3	5.020866e-02	5.021211e-02
## result.405	3	5.040868e-02	5.041213e-02
## result.406	3	5.060870e-02	5.061215e-02
## result.407	3	5.080872e-02	5.081217e-02
## result.408	3	5.100874e-02	5.101219e-02
## result.409	3	5.120876e-02	5.121221e-02
## result.410	3	5.140878e-02	5.141223e-02
## result.411	3	5.160880e-02	5.161225e-02
## result.412	3	5.180882e-02	5.181227e-02
## result.413	3	5.200884e-02	5.201229e-02
## result.414	3	5.220886e-02	5.221231e-02
## result.415	3	5.240888e-02	5.241232e-02
## result.416	3	5.260890e-02	5.261234e-02
## result.417	3	5.280892e-02	5.281236e-02
## result.418	3	5.300894e-02	5.301238e-02
## result.419	3	5.320896e-02	5.321240e-02
## result.420	3	5.340898e-02	5.341242e-02
## result.421	3	5.360900e-02	5.361244e-02
## result.422	3	5.380902e-02	5.381246e-02
## result.423	3	5.400904e-02	5.401248e-02
## result.424	3	5.420906e-02	5.421250e-02
## result.425	3	5.440908e-02	5.441252e-02
## result.426	3	5.460910e-02	5.461253e-02
## result.427	3	5.480912e-02	5.481255e-02
## result.428	3	5.500914e-02	5.501257e-02
## result.429	3	5.520916e-02	5.521259e-02
## result.430	3	5.540918e-02	5.541261e-02
## result.431	3	5.560920e-02	5.561263e-02
## result.432	3	5.580922e-02	5.581265e-02
## result.433	3	5.600924e-02	5.601267e-02
## result.434	3	5.620926e-02	5.621269e-02
## result.435	3	5.640928e-02	5.641271e-02
## result.436	3	5.660930e-02	5.661273e-02
## result.437	3	5.680932e-02	5.681275e-02
## result.438	3	5.700934e-02	5.701276e-02
## result.439	3	5.720936e-02	5.721278e-02
## result.440	3	5.740938e-02	5.741280e-02
## result.441	3	5.760940e-02	5.761282e-02
## result.442	3	5.780942e-02	5.781284e-02
## result.443	3	5.800944e-02	5.801286e-02
## result.444	3	5.820946e-02	5.821288e-02
## result.445	3	5.840948e-02	5.841290e-02
## result.446	3	5.860950e-02	5.861292e-02
## result.447	3	5.880952e-02	5.881294e-02
## result.448	3	5.900954e-02	5.901296e-02
## result.449	3	5.920955e-02	5.921297e-02
## result.450	3	5.940957e-02	5.941299e-02
## result.451	3	5.960959e-02	5.961301e-02
## result.452	3	5.980961e-02	5.981303e-02
## result.453	3	6.000963e-02	6.001305e-02
## result.454	3	6.020965e-02	6.021307e-02
## result.455	3	6.040967e-02	6.041309e-02

## result.456	3	6.060969e-02	6.061311e-02
## result.457	3	6.080971e-02	6.081313e-02
## result.458	3	6.100973e-02	6.101315e-02
## result.459	3	6.120975e-02	6.121317e-02
## result.460	3	6.140977e-02	6.141319e-02
## result.461	3	6.160979e-02	6.161320e-02
## result.462	3	6.180981e-02	6.181322e-02
## result.463	3	6.200983e-02	6.201324e-02
## result.464	3	6.220985e-02	6.221326e-02
## result.465	3	6.240987e-02	6.241328e-02
## result.466	3	6.260989e-02	6.261330e-02
## result.467	3	6.280991e-02	6.281332e-02
## result.468	3	6.300993e-02	6.301334e-02
## result.469	3	6.320995e-02	6.321336e-02
## result.470	3	6.340997e-02	6.341338e-02
## result.471	3	6.360999e-02	6.361340e-02
## result.472	3	6.381001e-02	6.381341e-02
## result.473	3	6.401003e-02	6.401343e-02
## result.474	3	6.421005e-02	6.421345e-02
## result.475	3	6.441007e-02	6.441347e-02
## result.476	3	6.461009e-02	6.461349e-02
## result.477	3	6.481011e-02	6.481351e-02
## result.478	3	6.501013e-02	6.501353e-02
## result.479	3	6.521015e-02	6.521355e-02
## result.480	3	6.541017e-02	6.541357e-02
## result.481	3	6.561019e-02	6.561359e-02
## result.482	3	6.581021e-02	6.581361e-02
## result.483	3	6.601023e-02	6.601362e-02
## result.484	3	6.621025e-02	6.621364e-02
## result.485	3	6.641027e-02	6.641366e-02
## result.486	3	6.661029e-02	6.661368e-02
## result.487	3	6.681031e-02	6.681370e-02
## result.488	3	6.701033e-02	6.701372e-02
## result.489	3	6.721035e-02	6.721374e-02
## result.490	3	6.741037e-02	6.741376e-02
## result.491	3	6.761039e-02	6.761378e-02
## result.492	3	6.781041e-02	6.781380e-02
## result.493	3	6.801043e-02	6.801382e-02
## result.494	3	6.821045e-02	6.821384e-02
## result.495	3	6.841047e-02	6.841385e-02
## result.496	3	6.861049e-02	6.861387e-02
## result.497	3	6.881051e-02	6.881389e-02
## result.498	3	6.901053e-02	6.901391e-02
## result.499	3	6.921055e-02	6.921393e-02
## result.500	3	6.941057e-02	6.941395e-02
## result.501	3	6.961059e-02	6.961397e-02
## result.502	3	6.981061e-02	6.981399e-02
## result.503	3	7.001063e-02	7.001401e-02
## result.504	3	7.021065e-02	7.021403e-02
## result.505	3	7.041067e-02	7.041405e-02
## result.506	3	7.061069e-02	7.061406e-02
## result.507	3	7.081071e-02	7.081408e-02
## result.508	3	7.101073e-02	7.101410e-02
## result.509	3	7.121075e-02	7.121412e-02

## result.510	3	7.141077e-02	7.141414e-02
## result.511	3	7.161079e-02	7.161416e-02
## result.512	3	7.181081e-02	7.181418e-02
## result.513	3	7.201083e-02	7.201420e-02
## result.514	3	7.221085e-02	7.221422e-02
## result.515	3	7.241087e-02	7.241424e-02
## result.516	3	7.261089e-02	7.261426e-02
## result.517	3	7.281091e-02	7.281428e-02
## result.518	3	7.301093e-02	7.301429e-02
## result.519	3	7.321095e-02	7.321431e-02
## result.520	3	7.341097e-02	7.341433e-02
## result.521	3	7.361099e-02	7.361435e-02
## result.522	3	7.381101e-02	7.381437e-02
## result.523	3	7.401103e-02	7.401439e-02
## result.524	3	7.421105e-02	7.421441e-02
## result.525	3	7.441107e-02	7.441443e-02
## result.526	3	7.461109e-02	7.461445e-02
## result.527	3	7.481110e-02	7.481447e-02
## result.528	3	7.501112e-02	7.501449e-02
## result.529	3	7.521114e-02	7.521450e-02
## result.530	3	7.541116e-02	7.541452e-02
## result.531	3	7.561118e-02	7.561454e-02
## result.532	3	7.581120e-02	7.581456e-02
## result.533	3	7.601122e-02	7.601458e-02
## result.534	3	7.621124e-02	7.621460e-02
## result.535	3	7.641126e-02	7.641462e-02
## result.536	3	7.661128e-02	7.661464e-02
## result.537	3	7.681130e-02	7.681466e-02
## result.538	3	7.701132e-02	7.701468e-02
## result.539	3	7.721134e-02	7.721470e-02
## result.540	3	7.741136e-02	7.741471e-02
## result.541	3	7.761138e-02	7.761473e-02
## result.542	3	7.781140e-02	7.781475e-02
## result.543	3	7.801142e-02	7.801477e-02
## result.544	3	7.821144e-02	7.821479e-02
## result.545	3	7.841146e-02	7.841481e-02
## result.546	3	7.861148e-02	7.861483e-02
## result.547	3	7.881150e-02	7.881485e-02
## result.548	3	7.901152e-02	7.901487e-02
## result.549	3	7.921154e-02	7.921489e-02
## result.550	3	7.941156e-02	7.941491e-02
## result.551	3	7.961158e-02	7.961493e-02
## result.552	3	7.981160e-02	7.981494e-02
## result.553	3	8.001162e-02	8.001496e-02
## result.554	3	8.021164e-02	8.021498e-02
## result.555	3	8.041166e-02	8.041500e-02
## result.556	3	8.061168e-02	8.061502e-02
## result.557	3	8.081170e-02	8.081504e-02
## result.558	3	8.101172e-02	8.101506e-02
## result.559	3	8.121174e-02	8.121508e-02
## result.560	3	8.141176e-02	8.141510e-02
## result.561	3	8.161178e-02	8.161512e-02
## result.562	3	8.181180e-02	8.181514e-02
## result.563	3	8.201182e-02	8.201515e-02

## result.564	3	8.221184e-02	8.221517e-02
## result.565	3	8.241186e-02	8.241519e-02
## result.566	3	8.261188e-02	8.261521e-02
## result.567	3	8.281190e-02	8.281523e-02
## result.568	3	8.301192e-02	8.301525e-02
## result.569	3	8.321194e-02	8.321527e-02
## result.570	3	8.341196e-02	8.341529e-02
## result.571	3	8.361198e-02	8.361531e-02
## result.572	3	8.381200e-02	8.381533e-02
## result.573	3	8.401202e-02	8.401535e-02
## result.574	3	8.421204e-02	8.421536e-02
## result.575	3	8.441206e-02	8.441538e-02
## result.576	3	8.461208e-02	8.461540e-02
## result.577	3	8.481210e-02	8.481542e-02
## result.578	3	8.501212e-02	8.501544e-02
## result.579	3	8.521214e-02	8.521546e-02
## result.580	3	8.541216e-02	8.541548e-02
## result.581	3	8.561218e-02	8.561550e-02
## result.582	3	8.581220e-02	8.581552e-02
## result.583	3	8.601222e-02	8.601554e-02
## result.584	3	8.621224e-02	8.621556e-02
## result.585	3	8.641226e-02	8.641558e-02
## result.586	3	8.661228e-02	8.661559e-02
## result.587	3	8.681230e-02	8.681561e-02
## result.588	3	8.701232e-02	8.701563e-02
## result.589	3	8.721234e-02	8.721565e-02
## result.590	3	8.741236e-02	8.741567e-02
## result.591	3	8.761238e-02	8.761569e-02
## result.592	3	8.781240e-02	8.781571e-02
## result.593	3	8.801242e-02	8.801573e-02
## result.594	3	8.821244e-02	8.821575e-02
## result.595	3	8.841246e-02	8.841577e-02
## result.596	3	8.861248e-02	8.861579e-02
## result.597	3	8.881250e-02	8.881580e-02
## result.598	3	8.901252e-02	8.901582e-02
## result.599	3	8.921254e-02	8.921584e-02
## result.600	3	8.941256e-02	8.941586e-02
## result.601	3	8.961258e-02	8.961588e-02
## result.602	3	8.981260e-02	8.981590e-02
## result.603	3	9.001262e-02	9.001592e-02
## result.604	3	9.021264e-02	9.021594e-02
## result.605	3	9.041265e-02	9.041596e-02
## result.606	3	9.061267e-02	9.061598e-02
## result.607	3	9.081269e-02	9.081600e-02
## result.608	3	9.101271e-02	9.101602e-02
## result.609	3	9.121273e-02	9.121603e-02
## result.610	3	9.141275e-02	9.141605e-02
## result.611	3	9.161277e-02	9.161607e-02
## result.612	3	9.181279e-02	9.181609e-02
## result.613	3	9.201281e-02	9.201611e-02
## result.614	3	9.221283e-02	9.221613e-02
## result.615	3	9.241285e-02	9.241615e-02
## result.616	3	9.261287e-02	9.261617e-02
## result.617	3	9.281289e-02	9.281619e-02

## result.618	3	9.301291e-02	9.301621e-02
## result.619	3	9.321293e-02	9.321623e-02
## result.620	3	9.341295e-02	9.341624e-02
## result.621	3	9.361297e-02	9.361626e-02
## result.622	3	9.381299e-02	9.381628e-02
## result.623	3	9.401301e-02	9.401630e-02
## result.624	3	9.421303e-02	9.421632e-02
## result.625	3	9.441305e-02	9.441634e-02
## result.626	3	9.461307e-02	9.461636e-02
## result.627	3	9.481309e-02	9.481638e-02
## result.628	3	9.501311e-02	9.501640e-02
## result.629	3	9.521313e-02	9.521642e-02
## result.630	3	9.541315e-02	9.541644e-02
## result.631	3	9.561317e-02	9.561645e-02
## result.632	3	9.581319e-02	9.581647e-02
## result.633	3	9.601321e-02	9.601649e-02
## result.634	3	9.621323e-02	9.621651e-02
## result.635	3	9.641325e-02	9.641653e-02
## result.636	3	9.661327e-02	9.661655e-02
## result.637	3	9.681329e-02	9.681657e-02
## result.638	3	9.701331e-02	9.701659e-02
## result.639	3	9.721333e-02	9.721661e-02
## result.640	3	9.741335e-02	9.741663e-02
## result.641	3	9.761337e-02	9.761665e-02
## result.642	3	9.781339e-02	9.781667e-02
## result.643	3	9.801341e-02	9.801668e-02
## result.644	3	9.821343e-02	9.821670e-02
## result.645	3	9.841345e-02	9.841672e-02
## result.646	3	9.861347e-02	9.861674e-02
## result.647	3	9.881349e-02	9.881676e-02
## result.648	3	9.901351e-02	9.901678e-02
## result.649	3	9.921353e-02	9.921680e-02
## result.650	3	9.941355e-02	9.941682e-02
## result.651	3	9.961357e-02	9.961684e-02
## result.652	3	9.981359e-02	9.981686e-02
## result.653	3	1.000136e-01	1.000169e-01
## result.654	3	1.002136e-01	1.002169e-01
## result.655	3	1.004136e-01	1.004169e-01
## result.656	3	1.006137e-01	1.006169e-01
## result.657	3	1.008137e-01	1.008170e-01
## result.658	3	1.010137e-01	1.010170e-01
## result.659	3	1.012137e-01	1.012170e-01
## result.660	3	1.014137e-01	1.014170e-01
## result.661	3	1.016138e-01	1.016170e-01
## result.662	3	1.018138e-01	1.018170e-01
## result.663	3	1.020138e-01	1.020171e-01
## result.664	3	1.022138e-01	1.022171e-01
## result.665	3	1.024138e-01	1.024171e-01
## result.666	3	1.026139e-01	1.026171e-01
## result.667	3	1.028139e-01	1.028171e-01
## result.668	3	1.030139e-01	1.030172e-01
## result.669	3	1.032139e-01	1.032172e-01
## result.670	3	1.034139e-01	1.034172e-01
## result.671	3	1.036140e-01	1.036172e-01

## result.672	3	1.038140e-01	1.038172e-01
## result.673	3	1.040140e-01	1.040173e-01
## result.674	3	1.042140e-01	1.042173e-01
## result.675	3	1.044140e-01	1.044173e-01
## result.676	3	1.046141e-01	1.046173e-01
## result.677	3	1.048141e-01	1.048173e-01
## result.678	3	1.050141e-01	1.050174e-01
## result.679	3	1.052141e-01	1.052174e-01
## result.680	3	1.054141e-01	1.054174e-01
## result.681	3	1.056142e-01	1.056174e-01
## result.682	3	1.058142e-01	1.058174e-01
## result.683	3	1.060142e-01	1.060174e-01
## result.684	3	1.062142e-01	1.062175e-01
## result.685	3	1.064142e-01	1.064175e-01
## result.686	3	1.066143e-01	1.066175e-01
## result.687	3	1.068143e-01	1.068175e-01
## result.688	3	1.070143e-01	1.070175e-01
## result.689	3	1.072143e-01	1.072176e-01
## result.690	3	1.074143e-01	1.074176e-01
## result.691	3	1.076144e-01	1.076176e-01
## result.692	3	1.078144e-01	1.078176e-01
## result.693	3	1.080144e-01	1.080176e-01
## result.694	3	1.082144e-01	1.082177e-01
## result.695	3	1.084144e-01	1.084177e-01
## result.696	3	1.086145e-01	1.086177e-01
## result.697	3	1.088145e-01	1.088177e-01
## result.698	3	1.090145e-01	1.090177e-01
## result.699	3	1.092145e-01	1.092178e-01
## result.700	3	1.094145e-01	1.094178e-01
## result.701	3	1.096146e-01	1.096178e-01
## result.702	3	1.098146e-01	1.098178e-01
## result.703	3	1.100146e-01	1.100178e-01
## result.704	3	1.102146e-01	1.102179e-01
## result.705	3	1.104146e-01	1.104179e-01
## result.706	3	1.106147e-01	1.106179e-01
## result.707	3	1.108147e-01	1.108179e-01
## result.708	3	1.110147e-01	1.110179e-01
## result.709	3	1.112147e-01	1.112179e-01
## result.710	3	1.114147e-01	1.114180e-01
## result.711	3	1.116148e-01	1.116180e-01
## result.712	3	1.118148e-01	1.118180e-01
## result.713	3	1.120148e-01	1.120180e-01
## result.714	3	1.122148e-01	1.122180e-01
## result.715	3	1.124148e-01	1.124181e-01
## result.716	3	1.126149e-01	1.126181e-01
## result.717	3	1.128149e-01	1.128181e-01
## result.718	3	1.130149e-01	1.130181e-01
## result.719	3	1.132149e-01	1.132181e-01
## result.720	3	1.134149e-01	1.134182e-01
## result.721	3	1.136150e-01	1.136182e-01
## result.722	3	1.138150e-01	1.138182e-01
## result.723	3	1.140150e-01	1.140182e-01
## result.724	3	1.142150e-01	1.142182e-01
## result.725	3	1.144150e-01	1.144183e-01

## result.726	3	1.146151e-01	1.146183e-01
## result.727	3	1.148151e-01	1.148183e-01
## result.728	3	1.150151e-01	1.150183e-01
## result.729	3	1.152151e-01	1.152183e-01
## result.730	3	1.154151e-01	1.154183e-01
## result.731	3	1.156152e-01	1.156184e-01
## result.732	3	1.158152e-01	1.158184e-01
## result.733	3	1.160152e-01	1.160184e-01
## result.734	3	1.162152e-01	1.162184e-01
## result.735	3	1.164152e-01	1.164184e-01
## result.736	3	1.166153e-01	1.166185e-01
## result.737	3	1.168153e-01	1.168185e-01
## result.738	3	1.170153e-01	1.170185e-01
## result.739	3	1.172153e-01	1.172185e-01
## result.740	3	1.174153e-01	1.174185e-01
## result.741	3	1.176154e-01	1.176186e-01
## result.742	3	1.178154e-01	1.178186e-01
## result.743	3	1.180154e-01	1.180186e-01
## result.744	3	1.182154e-01	1.182186e-01
## result.745	3	1.184154e-01	1.184186e-01
## result.746	3	1.186155e-01	1.186187e-01
## result.747	3	1.188155e-01	1.188187e-01
## result.748	3	1.190155e-01	1.190187e-01
## result.749	3	1.192155e-01	1.192187e-01
## result.750	3	1.194155e-01	1.194187e-01
## result.751	3	1.196156e-01	1.196187e-01
## result.752	3	1.198156e-01	1.198188e-01
## result.753	3	1.200156e-01	1.200188e-01
## result.754	3	1.202156e-01	1.202188e-01
## result.755	3	1.204156e-01	1.204188e-01
## result.756	3	1.206157e-01	1.206188e-01
## result.757	3	1.208157e-01	1.208189e-01
## result.758	3	1.210157e-01	1.210189e-01
## result.759	3	1.212157e-01	1.212189e-01
## result.760	3	1.214157e-01	1.214189e-01
## result.761	3	1.216158e-01	1.216189e-01
## result.762	3	1.218158e-01	1.218190e-01
## result.763	3	1.220158e-01	1.220190e-01
## result.764	3	1.222158e-01	1.222190e-01
## result.765	3	1.224158e-01	1.224190e-01
## result.766	3	1.226159e-01	1.226190e-01
## result.767	3	1.228159e-01	1.228191e-01
## result.768	3	1.230159e-01	1.230191e-01
## result.769	3	1.232159e-01	1.232191e-01
## result.770	3	1.234159e-01	1.234191e-01
## result.771	3	1.236160e-01	1.236191e-01
## result.772	3	1.238160e-01	1.238192e-01
## result.773	3	1.240160e-01	1.240192e-01
## result.774	3	1.242160e-01	1.242192e-01
## result.775	3	1.244160e-01	1.244192e-01
## result.776	3	1.246161e-01	1.246192e-01
## result.777	3	1.248161e-01	1.248192e-01
## result.778	3	1.250161e-01	1.250193e-01
## result.779	3	1.252161e-01	1.252193e-01

## result.780	3	1.254161e-01	1.254193e-01
## result.781	3	1.256162e-01	1.256193e-01
## result.782	3	1.258162e-01	1.258193e-01
## result.783	3	1.260162e-01	1.260194e-01
## result.784	3	1.262162e-01	1.262194e-01
## result.785	3	1.264162e-01	1.264194e-01
## result.786	3	1.266163e-01	1.266194e-01
## result.787	3	1.268163e-01	1.268194e-01
## result.788	3	1.270163e-01	1.270195e-01
## result.789	3	1.272163e-01	1.272195e-01
## result.790	3	1.274163e-01	1.274195e-01
## result.791	3	1.276164e-01	1.276195e-01
## result.792	3	1.278164e-01	1.278195e-01
## result.793	3	1.280164e-01	1.280196e-01
## result.794	3	1.282164e-01	1.282196e-01
## result.795	3	1.284164e-01	1.284196e-01
## result.796	3	1.286165e-01	1.286196e-01
## result.797	3	1.288165e-01	1.288196e-01
## result.798	3	1.290165e-01	1.290196e-01
## result.799	3	1.292165e-01	1.292197e-01
## result.800	3	1.294165e-01	1.294197e-01
## result.801	3	1.296165e-01	1.296197e-01
## result.802	3	1.298166e-01	1.298197e-01
## result.803	3	1.300166e-01	1.300197e-01
## result.804	3	1.302166e-01	1.302198e-01
## result.805	3	1.304166e-01	1.304198e-01
## result.806	3	1.306166e-01	1.306198e-01
## result.807	3	1.308167e-01	1.308198e-01
## result.808	3	1.310167e-01	1.310198e-01
## result.809	3	1.312167e-01	1.312199e-01
## result.810	3	1.314167e-01	1.314199e-01
## result.811	3	1.316167e-01	1.316199e-01
## result.812	3	1.318168e-01	1.318199e-01
## result.813	3	1.320168e-01	1.320199e-01
## result.814	3	1.322168e-01	1.322200e-01
## result.815	3	1.324168e-01	1.324200e-01
## result.816	3	1.326168e-01	1.326200e-01
## result.817	3	1.328169e-01	1.328200e-01
## result.818	3	1.330169e-01	1.330200e-01
## result.819	3	1.332169e-01	1.332200e-01
## result.820	3	1.334169e-01	1.334201e-01
## result.821	3	1.336169e-01	1.336201e-01
## result.822	3	1.338170e-01	1.338201e-01
## result.823	3	1.340170e-01	1.340201e-01
## result.824	3	1.342170e-01	1.342201e-01
## result.825	3	1.344170e-01	1.344202e-01
## result.826	3	1.346170e-01	1.346202e-01
## result.827	3	1.348171e-01	1.348202e-01
## result.828	3	1.350171e-01	1.350202e-01
## result.829	3	1.352171e-01	1.352202e-01
## result.830	3	1.354171e-01	1.354203e-01
## result.831	3	1.356171e-01	1.356203e-01
## result.832	3	1.358172e-01	1.358203e-01
## result.833	3	1.360172e-01	1.360203e-01

## result.834	3	1.362172e-01	1.362203e-01
## result.835	3	1.364172e-01	1.364204e-01
## result.836	3	1.366172e-01	1.366204e-01
## result.837	3	1.368173e-01	1.368204e-01
## result.838	3	1.370173e-01	1.370204e-01
## result.839	3	1.372173e-01	1.372204e-01
## result.840	3	1.374173e-01	1.374205e-01
## result.841	3	1.376173e-01	1.376205e-01
## result.842	3	1.378174e-01	1.378205e-01
## result.843	3	1.380174e-01	1.380205e-01
## result.844	3	1.382174e-01	1.382205e-01
## result.845	3	1.384174e-01	1.384205e-01
## result.846	3	1.386174e-01	1.386206e-01
## result.847	3	1.388175e-01	1.388206e-01
## result.848	3	1.390175e-01	1.390206e-01
## result.849	3	1.392175e-01	1.392206e-01
## result.850	3	1.394175e-01	1.394206e-01
## result.851	3	1.396175e-01	1.396207e-01
## result.852	3	1.398176e-01	1.398207e-01
## result.853	3	1.400176e-01	1.400207e-01
## result.854	3	1.402176e-01	1.402207e-01
## result.855	3	1.404176e-01	1.404207e-01
## result.856	3	1.406176e-01	1.406208e-01
## result.857	3	1.408177e-01	1.408208e-01
## result.858	3	1.410177e-01	1.410208e-01
## result.859	3	1.412177e-01	1.412208e-01
## result.860	3	1.414177e-01	1.414208e-01
## result.861	3	1.416177e-01	1.416209e-01
## result.862	3	1.418178e-01	1.418209e-01
## result.863	3	1.420178e-01	1.420209e-01
## result.864	3	1.422178e-01	1.422209e-01
## result.865	3	1.424178e-01	1.424209e-01
## result.866	3	1.426178e-01	1.426209e-01
## result.867	3	1.428179e-01	1.428210e-01
## result.868	3	1.430179e-01	1.430210e-01
## result.869	3	1.432179e-01	1.432210e-01
## result.870	3	1.434179e-01	1.434210e-01
## result.871	3	1.436179e-01	1.436210e-01
## result.872	3	1.438180e-01	1.438211e-01
## result.873	3	1.440180e-01	1.440211e-01
## result.874	3	1.442180e-01	1.442211e-01
## result.875	3	1.444180e-01	1.444211e-01
## result.876	3	1.446180e-01	1.446211e-01
## result.877	3	1.448181e-01	1.448212e-01
## result.878	3	1.450181e-01	1.450212e-01
## result.879	3	1.452181e-01	1.452212e-01
## result.880	3	1.454181e-01	1.454212e-01
## result.881	3	1.456181e-01	1.456212e-01
## result.882	3	1.458182e-01	1.458213e-01
## result.883	3	1.460182e-01	1.460213e-01
## result.884	3	1.462182e-01	1.462213e-01
## result.885	3	1.464182e-01	1.464213e-01
## result.886	3	1.466182e-01	1.466213e-01
## result.887	3	1.468183e-01	1.468214e-01

## result.888	3	1.470183e-01	1.470214e-01
## result.889	3	1.472183e-01	1.472214e-01
## result.890	3	1.474183e-01	1.474214e-01
## result.891	3	1.476183e-01	1.476214e-01
## result.892	3	1.478184e-01	1.478214e-01
## result.893	3	1.480184e-01	1.480215e-01
## result.894	3	1.482184e-01	1.482215e-01
## result.895	3	1.484184e-01	1.484215e-01
## result.896	3	1.486184e-01	1.486215e-01
## result.897	3	1.488185e-01	1.488215e-01
## result.898	3	1.490185e-01	1.490216e-01
## result.899	3	1.492185e-01	1.492216e-01
## result.900	3	1.494185e-01	1.494216e-01
## result.901	3	1.496185e-01	1.496216e-01
## result.902	3	1.498186e-01	1.498216e-01
## result.903	3	1.500186e-01	1.500217e-01
## result.904	3	1.502186e-01	1.502217e-01
## result.905	3	1.504186e-01	1.504217e-01
## result.906	3	1.506186e-01	1.506217e-01
## result.907	3	1.508187e-01	1.508217e-01
## result.908	3	1.510187e-01	1.510218e-01
## result.909	3	1.512187e-01	1.512218e-01
## result.910	3	1.514187e-01	1.514218e-01
## result.911	3	1.516187e-01	1.516218e-01
## result.912	3	1.518188e-01	1.518218e-01
## result.913	3	1.520188e-01	1.520218e-01
## result.914	3	1.522188e-01	1.522219e-01
## result.915	3	1.524188e-01	1.524219e-01
## result.916	3	1.526188e-01	1.526219e-01
## result.917	3	1.528189e-01	1.528219e-01
## result.918	3	1.530189e-01	1.530219e-01
## result.919	3	1.532189e-01	1.532220e-01
## result.920	3	1.534189e-01	1.534220e-01
## result.921	3	1.536189e-01	1.536220e-01
## result.922	3	1.538190e-01	1.538220e-01
## result.923	3	1.540190e-01	1.540220e-01
## result.924	3	1.542190e-01	1.542221e-01
## result.925	3	1.544190e-01	1.544221e-01
## result.926	3	1.546190e-01	1.546221e-01
## result.927	3	1.548191e-01	1.548221e-01
## result.928	3	1.550191e-01	1.550221e-01
## result.929	3	1.552191e-01	1.552222e-01
## result.930	3	1.554191e-01	1.554222e-01
## result.931	3	1.556191e-01	1.556222e-01
## result.932	3	1.558192e-01	1.558222e-01
## result.933	3	1.560192e-01	1.560222e-01
## result.934	3	1.562192e-01	1.562222e-01
## result.935	3	1.564192e-01	1.564223e-01
## result.936	3	1.566192e-01	1.566223e-01
## result.937	3	1.568193e-01	1.568223e-01
## result.938	3	1.570193e-01	1.570223e-01
## result.939	3	1.572193e-01	1.572223e-01
## result.940	3	1.574193e-01	1.574224e-01
## result.941	3	1.576193e-01	1.576224e-01

## result.942	3	1.578194e-01	1.578224e-01
## result.943	3	1.580194e-01	1.580224e-01
## result.944	3	1.582194e-01	1.582224e-01
## result.945	3	1.584194e-01	1.584225e-01
## result.946	3	1.586194e-01	1.586225e-01
## result.947	3	1.588195e-01	1.588225e-01
## result.948	3	1.590195e-01	1.590225e-01
## result.949	3	1.592195e-01	1.592225e-01
## result.950	3	1.594195e-01	1.594226e-01
## result.951	3	1.596195e-01	1.596226e-01
## result.952	3	1.598196e-01	1.598226e-01
## result.953	3	1.600196e-01	1.600226e-01
## result.954	3	1.602196e-01	1.602226e-01
## result.955	3	1.604196e-01	1.604227e-01
## result.956	3	1.606196e-01	1.606227e-01
## result.957	3	1.608196e-01	1.608227e-01
## result.958	3	1.610197e-01	1.610227e-01
## result.959	3	1.612197e-01	1.612227e-01
## result.960	3	1.614197e-01	1.614227e-01
## result.961	3	1.616197e-01	1.616228e-01
## result.962	3	1.618197e-01	1.618228e-01
## result.963	3	1.620198e-01	1.620228e-01
## result.964	3	1.622198e-01	1.622228e-01
## result.965	3	1.624198e-01	1.624228e-01
## result.966	3	1.626198e-01	1.626229e-01
## result.967	3	1.628198e-01	1.628229e-01
## result.968	3	1.630199e-01	1.630229e-01
## result.969	3	1.632199e-01	1.632229e-01
## result.970	3	1.634199e-01	1.634229e-01
## result.971	3	1.636199e-01	1.636230e-01
## result.972	3	1.638199e-01	1.638230e-01
## result.973	3	1.640200e-01	1.640230e-01
## result.974	3	1.642200e-01	1.642230e-01
## result.975	3	1.644200e-01	1.644230e-01
## result.976	3	1.646200e-01	1.646231e-01
## result.977	3	1.648200e-01	1.648231e-01
## result.978	3	1.650201e-01	1.650231e-01
## result.979	3	1.652201e-01	1.652231e-01
## result.980	3	1.654201e-01	1.654231e-01
## result.981	3	1.656201e-01	1.656231e-01
## result.982	3	1.658201e-01	1.658232e-01
## result.983	3	1.660202e-01	1.660232e-01
## result.984	3	1.662202e-01	1.662232e-01
## result.985	3	1.664202e-01	1.664232e-01
## result.986	3	1.666202e-01	1.666232e-01
## result.987	3	1.668202e-01	1.668233e-01
## result.988	3	1.670203e-01	1.670233e-01
## result.989	3	1.672203e-01	1.672233e-01
## result.990	3	1.674203e-01	1.674233e-01
## result.991	3	1.676203e-01	1.676233e-01
## result.992	3	1.678203e-01	1.678234e-01
## result.993	3	1.680204e-01	1.680234e-01
## result.994	3	1.682204e-01	1.682234e-01
## result.995	3	1.684204e-01	1.684234e-01

## result.996	3	1.686204e-01	1.686234e-01
## result.997	3	1.688204e-01	1.688235e-01
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## result.1000	3	1.694205e-01	1.694235e-01
## result.1001	3	1.696205e-01	1.696235e-01
## result.1002	3	1.698205e-01	1.698235e-01
## result.1003	3	1.700206e-01	1.700236e-01
## result.1004	3	1.702206e-01	1.702236e-01
## result.1005	3	1.704206e-01	1.704236e-01
## result.1006	3	1.706206e-01	1.706236e-01
## result.1007	3	1.708206e-01	1.708236e-01
## result.1008	3	1.710207e-01	1.710237e-01
## result.1009	3	1.712207e-01	1.712237e-01
## result.1010	3	1.714207e-01	1.714237e-01
## result.1011	3	1.716207e-01	1.716237e-01
## result.1012	3	1.718207e-01	1.718237e-01
## result.1013	3	1.720208e-01	1.720238e-01
## result.1014	3	1.722208e-01	1.722238e-01
## result.1015	3	1.724208e-01	1.724238e-01
## result.1016	3	1.726208e-01	1.726238e-01
## result.1017	3	1.728208e-01	1.728238e-01
## result.1018	3	1.730209e-01	1.730239e-01
## result.1019	3	1.732209e-01	1.732239e-01
## result.1020	3	1.734209e-01	1.734239e-01
## result.1021	3	1.736209e-01	1.736239e-01
## result.1022	3	1.738209e-01	1.738239e-01
## result.1023	3	1.740210e-01	1.740240e-01
## result.1024	3	1.742210e-01	1.742240e-01
## result.1025	3	1.744210e-01	1.744240e-01
## result.1026	3	1.746210e-01	1.746240e-01
## result.1027	3	1.748210e-01	1.748240e-01
## result.1028	3	1.750211e-01	1.750240e-01
## result.1029	3	1.752211e-01	1.752241e-01
## result.1030	3	1.754211e-01	1.754241e-01
## result.1031	3	1.756211e-01	1.756241e-01
## result.1032	3	1.758211e-01	1.758241e-01
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## result.1034	3	1.762212e-01	1.762242e-01
## result.1035	3	1.764212e-01	1.764242e-01
## result.1036	3	1.766212e-01	1.766242e-01
## result.1037	3	1.768212e-01	1.768242e-01
## result.1038	3	1.770213e-01	1.770242e-01
## result.1039	3	1.772213e-01	1.772243e-01
## result.1040	3	1.774213e-01	1.774243e-01
## result.1041	3	1.776213e-01	1.776243e-01
## result.1042	3	1.778213e-01	1.778243e-01
## result.1043	3	1.780214e-01	1.780243e-01
## result.1044	3	1.782214e-01	1.782244e-01
## result.1045	3	1.784214e-01	1.784244e-01
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## result.1047	3	1.788214e-01	1.788244e-01
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## result.1050	3	1.794215e-01	1.794245e-01
## result.1051	3	1.796215e-01	1.796245e-01
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## result.1054	3	1.802216e-01	1.802245e-01
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## result.1058	3	1.810217e-01	1.810246e-01
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## result.1060	3	1.814217e-01	1.814247e-01
## result.1061	3	1.816217e-01	1.816247e-01
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## result.1063	3	1.820218e-01	1.820247e-01
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## result.1066	3	1.826218e-01	1.826248e-01
## result.1067	3	1.828218e-01	1.828248e-01
## result.1068	3	1.830219e-01	1.830248e-01
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## result.1071	3	1.836219e-01	1.836249e-01
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## result.1074	3	1.842220e-01	1.842249e-01
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## result.1076	3	1.846220e-01	1.846250e-01
## result.1077	3	1.848220e-01	1.848250e-01
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## result.1080	3	1.854221e-01	1.854250e-01
## result.1081	3	1.856221e-01	1.856251e-01
## result.1082	3	1.858221e-01	1.858251e-01
## result.1083	3	1.860222e-01	1.860251e-01
## result.1084	3	1.862222e-01	1.862251e-01
## result.1085	3	1.864222e-01	1.864251e-01
## result.1086	3	1.866222e-01	1.866252e-01
## result.1087	3	1.868222e-01	1.868252e-01
## result.1088	3	1.870223e-01	1.870252e-01
## result.1089	3	1.872223e-01	1.872252e-01
## result.1090	3	1.874223e-01	1.874252e-01
## result.1091	3	1.876223e-01	1.876253e-01
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## result.1093	3	1.880224e-01	1.880253e-01
## result.1094	3	1.882224e-01	1.882253e-01
## result.1095	3	1.884224e-01	1.884253e-01
## result.1096	3	1.886224e-01	1.886253e-01
## result.1097	3	1.888224e-01	1.888254e-01
## result.1098	3	1.890225e-01	1.890254e-01
## result.1099	3	1.892225e-01	1.892254e-01
## result.1100	3	1.894225e-01	1.894254e-01
## result.1101	3	1.896225e-01	1.896254e-01
## result.1102	3	1.898225e-01	1.898255e-01
## result.1103	3	1.900226e-01	1.900255e-01

## result.1104	3	1.902226e-01	1.902255e-01
## result.1105	3	1.904226e-01	1.904255e-01
## result.1106	3	1.906226e-01	1.906255e-01
## result.1107	3	1.908226e-01	1.908256e-01
## result.1108	3	1.910227e-01	1.910256e-01
## result.1109	3	1.912227e-01	1.912256e-01
## result.1110	3	1.914227e-01	1.914256e-01
## result.1111	3	1.916227e-01	1.916256e-01
## result.1112	3	1.918227e-01	1.918257e-01
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## result.1119	3	1.932229e-01	1.932258e-01
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## result.1121	3	1.936229e-01	1.936258e-01
## result.1122	3	1.938229e-01	1.938258e-01
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## result.1125	3	1.944230e-01	1.944259e-01
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## result.1127	3	1.948230e-01	1.948259e-01
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## result.1129	3	1.952231e-01	1.952260e-01
## result.1130	3	1.954231e-01	1.954260e-01
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## result.1135	3	1.964232e-01	1.964261e-01
## result.1136	3	1.966232e-01	1.966261e-01
## result.1137	3	1.968232e-01	1.968261e-01
## result.1138	3	1.970232e-01	1.970261e-01
## result.1139	3	1.972233e-01	1.972262e-01
## result.1140	3	1.974233e-01	1.974262e-01
## result.1141	3	1.976233e-01	1.976262e-01
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## result.1178	3	2.050240e-01	2.050269e-01
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## result.1182	3	2.058241e-01	2.058270e-01
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## result.1192	3	2.078243e-01	2.078272e-01
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## result.1200	3	2.094245e-01	2.094273e-01
## result.1201	3	2.096245e-01	2.096274e-01
## result.1202	3	2.098245e-01	2.098274e-01
## result.1203	3	2.100245e-01	2.100274e-01
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## result.1212	3	2.118247e-01	2.118276e-01
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## result.1219	3	2.132249e-01	2.132277e-01
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## result.1224	3	2.142250e-01	2.142278e-01
## result.1225	3	2.144250e-01	2.144278e-01
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## result.1230	3	2.154251e-01	2.154279e-01
## result.1231	3	2.156251e-01	2.156279e-01
## result.1232	3	2.158251e-01	2.158279e-01
## result.1233	3	2.160251e-01	2.160280e-01
## result.1234	3	2.162252e-01	2.162280e-01
## result.1235	3	2.164252e-01	2.164280e-01
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## result.1237	3	2.168252e-01	2.168280e-01
## result.1238	3	2.170252e-01	2.170281e-01
## result.1239	3	2.172253e-01	2.172281e-01
## result.1240	3	2.174253e-01	2.174281e-01
## result.1241	3	2.176253e-01	2.176281e-01
## result.1242	3	2.178253e-01	2.178281e-01
## result.1243	3	2.180253e-01	2.180282e-01
## result.1244	3	2.182254e-01	2.182282e-01
## result.1245	3	2.184254e-01	2.184282e-01
## result.1246	3	2.186254e-01	2.186282e-01
## result.1247	3	2.188254e-01	2.188282e-01
## result.1248	3	2.190254e-01	2.190283e-01
## result.1249	3	2.192255e-01	2.192283e-01
## result.1250	3	2.194255e-01	2.194283e-01
## result.1251	3	2.196255e-01	2.196283e-01
## result.1252	3	2.198255e-01	2.198283e-01
## result.1253	3	2.200255e-01	2.200283e-01
## result.1254	3	2.202256e-01	2.202284e-01
## result.1255	3	2.204256e-01	2.204284e-01
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## result.1262	3	2.218257e-01	2.218285e-01
## result.1263	3	2.220257e-01	2.220285e-01
## result.1264	3	2.222258e-01	2.222286e-01
## result.1265	3	2.224258e-01	2.224286e-01

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## result.1271	3	2.236259e-01	2.236287e-01
## result.1272	3	2.238259e-01	2.238287e-01
## result.1273	3	2.240259e-01	2.240287e-01
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## result.1276	3	2.246260e-01	2.246288e-01
## result.1277	3	2.248260e-01	2.248288e-01
## result.1278	3	2.250260e-01	2.250288e-01
## result.1279	3	2.252260e-01	2.252288e-01
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## result.1302	3	2.298265e-01	2.298293e-01
## result.1303	3	2.300265e-01	2.300293e-01
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## result.1305	3	2.304266e-01	2.304293e-01
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## result.1336	3	2.366272e-01	2.366299e-01
## result.1337	3	2.368272e-01	2.368300e-01
## result.1338	3	2.370272e-01	2.370300e-01
## result.1339	3	2.372272e-01	2.372300e-01
## result.1340	3	2.374273e-01	2.374300e-01
## result.1341	3	2.376273e-01	2.376300e-01
## result.1342	3	2.378273e-01	2.378301e-01
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## result.1872	3	3.438378e-01	3.438402e-01
## result.1873	3	3.440379e-01	3.440402e-01
## result.1874	3	3.442379e-01	3.442402e-01
## result.1875	3	3.444379e-01	3.444402e-01
## result.1876	3	3.446379e-01	3.446403e-01
## result.1877	3	3.448379e-01	3.448403e-01
## result.1878	3	3.450380e-01	3.450403e-01
## result.1879	3	3.452380e-01	3.452403e-01
## result.1880	3	3.454380e-01	3.454403e-01
## result.1881	3	3.456380e-01	3.456404e-01
## result.1882	3	3.458380e-01	3.458404e-01
## result.1883	3	3.460381e-01	3.460404e-01
## result.1884	3	3.462381e-01	3.462404e-01
## result.1885	3	3.464381e-01	3.464404e-01
## result.1886	3	3.466381e-01	3.466405e-01
## result.1887	3	3.468381e-01	3.468405e-01
## result.1888	3	3.470382e-01	3.470405e-01
## result.1889	3	3.472382e-01	3.472405e-01
## result.1890	3	3.474382e-01	3.474405e-01
## result.1891	3	3.476382e-01	3.476405e-01
## result.1892	3	3.478382e-01	3.478406e-01
## result.1893	3	3.480383e-01	3.480406e-01
## result.1894	3	3.482383e-01	3.482406e-01
## result.1895	3	3.484383e-01	3.484406e-01
## result.1896	3	3.486383e-01	3.486406e-01
## result.1897	3	3.488383e-01	3.488407e-01
## result.1898	3	3.490383e-01	3.490407e-01
## result.1899	3	3.492384e-01	3.492407e-01
## result.1900	3	3.494384e-01	3.494407e-01
## result.1901	3	3.496384e-01	3.496407e-01
## result.1902	3	3.498384e-01	3.498408e-01
## result.1903	3	3.500384e-01	3.500408e-01
## result.1904	3	3.502385e-01	3.502408e-01
## result.1905	3	3.504385e-01	3.504408e-01
## result.1906	3	3.506385e-01	3.506408e-01
## result.1907	3	3.508385e-01	3.508409e-01
## result.1908	3	3.510385e-01	3.510409e-01
## result.1909	3	3.512386e-01	3.512409e-01
## result.1910	3	3.514386e-01	3.514409e-01
## result.1911	3	3.516386e-01	3.516409e-01
## result.1912	3	3.518386e-01	3.518410e-01
## result.1913	3	3.520386e-01	3.520410e-01

## result.1914	3	3.522387e-01	3.522410e-01
## result.1915	3	3.524387e-01	3.524410e-01
## result.1916	3	3.526387e-01	3.526410e-01
## result.1917	3	3.528387e-01	3.528410e-01
## result.1918	3	3.530387e-01	3.530411e-01
## result.1919	3	3.532388e-01	3.532411e-01
## result.1920	3	3.534388e-01	3.534411e-01
## result.1921	3	3.536388e-01	3.536411e-01
## result.1922	3	3.538388e-01	3.538411e-01
## result.1923	3	3.540388e-01	3.540412e-01
## result.1924	3	3.542389e-01	3.542412e-01
## result.1925	3	3.544389e-01	3.544412e-01
## result.1926	3	3.546389e-01	3.546412e-01
## result.1927	3	3.548389e-01	3.548412e-01
## result.1928	3	3.550389e-01	3.550413e-01
## result.1929	3	3.552390e-01	3.552413e-01
## result.1930	3	3.554390e-01	3.554413e-01
## result.1931	3	3.556390e-01	3.556413e-01
## result.1932	3	3.558390e-01	3.558413e-01
## result.1933	3	3.560390e-01	3.560414e-01
## result.1934	3	3.562391e-01	3.562414e-01
## result.1935	3	3.564391e-01	3.564414e-01
## result.1936	3	3.566391e-01	3.566414e-01
## result.1937	3	3.568391e-01	3.568414e-01
## result.1938	3	3.570391e-01	3.570414e-01
## result.1939	3	3.572392e-01	3.572415e-01
## result.1940	3	3.574392e-01	3.574415e-01
## result.1941	3	3.576392e-01	3.576415e-01
## result.1942	3	3.578392e-01	3.578415e-01
## result.1943	3	3.580392e-01	3.580415e-01
## result.1944	3	3.582393e-01	3.582416e-01
## result.1945	3	3.584393e-01	3.584416e-01
## result.1946	3	3.586393e-01	3.586416e-01
## result.1947	3	3.588393e-01	3.588416e-01
## result.1948	3	3.590393e-01	3.590416e-01
## result.1949	3	3.592394e-01	3.592417e-01
## result.1950	3	3.594394e-01	3.594417e-01
## result.1951	3	3.596394e-01	3.596417e-01
## result.1952	3	3.598394e-01	3.598417e-01
## result.1953	3	3.600394e-01	3.600417e-01
## result.1954	3	3.602395e-01	3.602418e-01
## result.1955	3	3.604395e-01	3.604418e-01
## result.1956	3	3.606395e-01	3.606418e-01
## result.1957	3	3.608395e-01	3.608418e-01
## result.1958	3	3.610395e-01	3.610418e-01
## result.1959	3	3.612396e-01	3.612418e-01
## result.1960	3	3.614396e-01	3.614419e-01
## result.1961	3	3.616396e-01	3.616419e-01
## result.1962	3	3.618396e-01	3.618419e-01
## result.1963	3	3.620396e-01	3.620419e-01
## result.1964	3	3.622397e-01	3.622419e-01
## result.1965	3	3.624397e-01	3.624420e-01
## result.1966	3	3.626397e-01	3.626420e-01
## result.1967	3	3.628397e-01	3.628420e-01

## result.1968	3	3.630397e-01	3.630420e-01
## result.1969	3	3.632398e-01	3.632420e-01
## result.1970	3	3.634398e-01	3.634421e-01
## result.1971	3	3.636398e-01	3.636421e-01
## result.1972	3	3.638398e-01	3.638421e-01
## result.1973	3	3.640398e-01	3.640421e-01
## result.1974	3	3.642399e-01	3.642421e-01
## result.1975	3	3.644399e-01	3.644422e-01
## result.1976	3	3.646399e-01	3.646422e-01
## result.1977	3	3.648399e-01	3.648422e-01
## result.1978	3	3.650399e-01	3.650422e-01
## result.1979	3	3.652400e-01	3.652422e-01
## result.1980	3	3.654400e-01	3.654423e-01
## result.1981	3	3.656400e-01	3.656423e-01
## result.1982	3	3.658400e-01	3.658423e-01
## result.1983	3	3.660400e-01	3.660423e-01
## result.1984	3	3.662401e-01	3.662423e-01
## result.1985	3	3.664401e-01	3.664423e-01
## result.1986	3	3.666401e-01	3.666424e-01
## result.1987	3	3.668401e-01	3.668424e-01
## result.1988	3	3.670401e-01	3.670424e-01
## result.1989	3	3.672402e-01	3.672424e-01
## result.1990	3	3.674402e-01	3.674424e-01
## result.1991	3	3.676402e-01	3.676425e-01
## result.1992	3	3.678402e-01	3.678425e-01
## result.1993	3	3.680402e-01	3.680425e-01
## result.1994	3	3.682403e-01	3.682425e-01
## result.1995	3	3.684403e-01	3.684425e-01
## result.1996	3	3.686403e-01	3.686426e-01
## result.1997	3	3.688403e-01	3.688426e-01
## result.1998	3	3.690403e-01	3.690426e-01
## result.1999	3	3.692404e-01	3.692426e-01
## result.2000	3	3.694404e-01	3.694426e-01
## result.2001	3	3.696404e-01	3.696427e-01
## result.2002	3	3.698404e-01	3.698427e-01
## result.2003	3	3.700404e-01	3.700427e-01
## result.2004	3	3.702405e-01	3.702427e-01
## result.2005	3	3.704405e-01	3.704427e-01
## result.2006	3	3.706405e-01	3.706427e-01
## result.2007	3	3.708405e-01	3.708428e-01
## result.2008	3	3.710405e-01	3.710428e-01
## result.2009	3	3.712406e-01	3.712428e-01
## result.2010	3	3.714406e-01	3.714428e-01
## result.2011	3	3.716406e-01	3.716428e-01
## result.2012	3	3.718406e-01	3.718429e-01
## result.2013	3	3.720406e-01	3.720429e-01
## result.2014	3	3.722407e-01	3.722429e-01
## result.2015	3	3.724407e-01	3.724429e-01
## result.2016	3	3.726407e-01	3.726429e-01
## result.2017	3	3.728407e-01	3.728430e-01
## result.2018	3	3.730407e-01	3.730430e-01
## result.2019	3	3.732408e-01	3.732430e-01
## result.2020	3	3.734408e-01	3.734430e-01
## result.2021	3	3.736408e-01	3.736430e-01

## result.2022	3	3.738408e-01	3.738431e-01
## result.2023	3	3.740408e-01	3.740431e-01
## result.2024	3	3.742409e-01	3.742431e-01
## result.2025	3	3.744409e-01	3.744431e-01
## result.2026	3	3.746409e-01	3.746431e-01
## result.2027	3	3.748409e-01	3.748431e-01
## result.2028	3	3.750409e-01	3.750432e-01
## result.2029	3	3.752410e-01	3.752432e-01
## result.2030	3	3.754410e-01	3.754432e-01
## result.2031	3	3.756410e-01	3.756432e-01
## result.2032	3	3.758410e-01	3.758432e-01
## result.2033	3	3.760410e-01	3.760433e-01
## result.2034	3	3.762411e-01	3.762433e-01
## result.2035	3	3.764411e-01	3.764433e-01
## result.2036	3	3.766411e-01	3.766433e-01
## result.2037	3	3.768411e-01	3.768433e-01
## result.2038	3	3.770411e-01	3.770434e-01
## result.2039	3	3.772412e-01	3.772434e-01
## result.2040	3	3.774412e-01	3.774434e-01
## result.2041	3	3.776412e-01	3.776434e-01
## result.2042	3	3.778412e-01	3.778434e-01
## result.2043	3	3.780412e-01	3.780435e-01
## result.2044	3	3.782413e-01	3.782435e-01
## result.2045	3	3.784413e-01	3.784435e-01
## result.2046	3	3.786413e-01	3.786435e-01
## result.2047	3	3.788413e-01	3.788435e-01
## result.2048	3	3.790413e-01	3.790436e-01
## result.2049	3	3.792414e-01	3.792436e-01
## result.2050	3	3.794414e-01	3.794436e-01
## result.2051	3	3.796414e-01	3.796436e-01
## result.2052	3	3.798414e-01	3.798436e-01
## result.2053	3	3.800414e-01	3.800436e-01
## result.2054	3	3.802414e-01	3.802437e-01
## result.2055	3	3.804415e-01	3.804437e-01
## result.2056	3	3.806415e-01	3.806437e-01
## result.2057	3	3.808415e-01	3.808437e-01
## result.2058	3	3.810415e-01	3.810437e-01
## result.2059	3	3.812415e-01	3.812438e-01
## result.2060	3	3.814416e-01	3.814438e-01
## result.2061	3	3.816416e-01	3.816438e-01
## result.2062	3	3.818416e-01	3.818438e-01
## result.2063	3	3.820416e-01	3.820438e-01
## result.2064	3	3.822416e-01	3.822439e-01
## result.2065	3	3.824417e-01	3.824439e-01
## result.2066	3	3.826417e-01	3.826439e-01
## result.2067	3	3.828417e-01	3.828439e-01
## result.2068	3	3.830417e-01	3.830439e-01
## result.2069	3	3.832417e-01	3.832440e-01
## result.2070	3	3.834418e-01	3.834440e-01
## result.2071	3	3.836418e-01	3.836440e-01
## result.2072	3	3.838418e-01	3.838440e-01
## result.2073	3	3.840418e-01	3.840440e-01
## result.2074	3	3.842418e-01	3.842440e-01
## result.2075	3	3.844419e-01	3.844441e-01

## result.2076	3	3.846419e-01	3.846441e-01
## result.2077	3	3.848419e-01	3.848441e-01
## result.2078	3	3.850419e-01	3.850441e-01
## result.2079	3	3.852419e-01	3.852441e-01
## result.2080	3	3.854420e-01	3.854442e-01
## result.2081	3	3.856420e-01	3.856442e-01
## result.2082	3	3.858420e-01	3.858442e-01
## result.2083	3	3.860420e-01	3.860442e-01
## result.2084	3	3.862420e-01	3.862442e-01
## result.2085	3	3.864421e-01	3.864443e-01
## result.2086	3	3.866421e-01	3.866443e-01
## result.2087	3	3.868421e-01	3.868443e-01
## result.2088	3	3.870421e-01	3.870443e-01
## result.2089	3	3.872421e-01	3.872443e-01
## result.2090	3	3.874422e-01	3.874444e-01
## result.2091	3	3.876422e-01	3.876444e-01
## result.2092	3	3.878422e-01	3.878444e-01
## result.2093	3	3.880422e-01	3.880444e-01
## result.2094	3	3.882422e-01	3.882444e-01
## result.2095	3	3.884423e-01	3.884444e-01
## result.2096	3	3.886423e-01	3.886445e-01
## result.2097	3	3.888423e-01	3.888445e-01
## result.2098	3	3.890423e-01	3.890445e-01
## result.2099	3	3.892423e-01	3.892445e-01
## result.2100	3	3.894424e-01	3.894445e-01
## result.2101	3	3.896424e-01	3.896446e-01
## result.2102	3	3.898424e-01	3.898446e-01
## result.2103	3	3.900424e-01	3.900446e-01
## result.2104	3	3.902424e-01	3.902446e-01
## result.2105	3	3.904425e-01	3.904446e-01
## result.2106	3	3.906425e-01	3.906447e-01
## result.2107	3	3.908425e-01	3.908447e-01
## result.2108	3	3.910425e-01	3.910447e-01
## result.2109	3	3.912425e-01	3.912447e-01
## result.2110	3	3.914426e-01	3.914447e-01
## result.2111	3	3.916426e-01	3.916448e-01
## result.2112	3	3.918426e-01	3.918448e-01
## result.2113	3	3.920426e-01	3.920448e-01
## result.2114	3	3.922426e-01	3.922448e-01
## result.2115	3	3.924427e-01	3.924448e-01
## result.2116	3	3.926427e-01	3.926449e-01
## result.2117	3	3.928427e-01	3.928449e-01
## result.2118	3	3.930427e-01	3.930449e-01
## result.2119	3	3.932427e-01	3.932449e-01
## result.2120	3	3.934428e-01	3.934449e-01
## result.2121	3	3.936428e-01	3.936449e-01
## result.2122	3	3.938428e-01	3.938450e-01
## result.2123	3	3.940428e-01	3.940450e-01
## result.2124	3	3.942428e-01	3.942450e-01
## result.2125	3	3.944429e-01	3.944450e-01
## result.2126	3	3.946429e-01	3.946450e-01
## result.2127	3	3.948429e-01	3.948451e-01
## result.2128	3	3.950429e-01	3.950451e-01
## result.2129	3	3.952429e-01	3.952451e-01

## result.2130	3	3.954430e-01	3.954451e-01
## result.2131	3	3.956430e-01	3.956451e-01
## result.2132	3	3.958430e-01	3.958452e-01
## result.2133	3	3.960430e-01	3.960452e-01
## result.2134	3	3.962430e-01	3.962452e-01
## result.2135	3	3.964431e-01	3.964452e-01
## result.2136	3	3.966431e-01	3.966452e-01
## result.2137	3	3.968431e-01	3.968453e-01
## result.2138	3	3.970431e-01	3.970453e-01
## result.2139	3	3.972431e-01	3.972453e-01
## result.2140	3	3.974432e-01	3.974453e-01
## result.2141	3	3.976432e-01	3.976453e-01
## result.2142	3	3.978432e-01	3.978453e-01
## result.2143	3	3.980432e-01	3.980454e-01
## result.2144	3	3.982432e-01	3.982454e-01
## result.2145	3	3.984433e-01	3.984454e-01
## result.2146	3	3.986433e-01	3.986454e-01
## result.2147	3	3.988433e-01	3.988454e-01
## result.2148	3	3.990433e-01	3.990455e-01
## result.2149	3	3.992433e-01	3.992455e-01
## result.2150	3	3.994434e-01	3.994455e-01
## result.2151	3	3.996434e-01	3.996455e-01
## result.2152	3	3.998434e-01	3.998455e-01
## result.2153	3	4.000434e-01	4.000456e-01
## result.2154	3	4.002434e-01	4.002456e-01
## result.2155	3	4.004435e-01	4.004456e-01
## result.2156	3	4.006435e-01	4.006456e-01
## result.2157	3	4.008435e-01	4.008456e-01
## result.2158	3	4.010435e-01	4.010457e-01
## result.2159	3	4.012435e-01	4.012457e-01
## result.2160	3	4.014436e-01	4.014457e-01
## result.2161	3	4.016436e-01	4.016457e-01
## result.2162	3	4.018436e-01	4.018457e-01
## result.2163	3	4.020436e-01	4.020457e-01
## result.2164	3	4.022436e-01	4.022458e-01
## result.2165	3	4.024437e-01	4.024458e-01
## result.2166	3	4.026437e-01	4.026458e-01
## result.2167	3	4.028437e-01	4.028458e-01
## result.2168	3	4.030437e-01	4.030458e-01
## result.2169	3	4.032437e-01	4.032459e-01
## result.2170	3	4.034438e-01	4.034459e-01
## result.2171	3	4.036438e-01	4.036459e-01
## result.2172	3	4.038438e-01	4.038459e-01
## result.2173	3	4.040438e-01	4.040459e-01
## result.2174	3	4.042438e-01	4.042460e-01
## result.2175	3	4.044439e-01	4.044460e-01
## result.2176	3	4.046439e-01	4.046460e-01
## result.2177	3	4.048439e-01	4.048460e-01
## result.2178	3	4.050439e-01	4.050460e-01
## result.2179	3	4.052439e-01	4.052461e-01
## result.2180	3	4.054440e-01	4.054461e-01
## result.2181	3	4.056440e-01	4.056461e-01
## result.2182	3	4.058440e-01	4.058461e-01
## result.2183	3	4.060440e-01	4.060461e-01

## result.2184	3	4.062440e-01	4.062462e-01
## result.2185	3	4.064441e-01	4.064462e-01
## result.2186	3	4.066441e-01	4.066462e-01
## result.2187	3	4.068441e-01	4.068462e-01
## result.2188	3	4.070441e-01	4.070462e-01
## result.2189	3	4.072441e-01	4.072462e-01
## result.2190	3	4.074442e-01	4.074463e-01
## result.2191	3	4.076442e-01	4.076463e-01
## result.2192	3	4.078442e-01	4.078463e-01
## result.2193	3	4.080442e-01	4.080463e-01
## result.2194	3	4.082442e-01	4.082463e-01
## result.2195	3	4.084443e-01	4.084464e-01
## result.2196	3	4.086443e-01	4.086464e-01
## result.2197	3	4.088443e-01	4.088464e-01
## result.2198	3	4.090443e-01	4.090464e-01
## result.2199	3	4.092443e-01	4.092464e-01
## result.2200	3	4.094444e-01	4.094465e-01
## result.2201	3	4.096444e-01	4.096465e-01
## result.2202	3	4.098444e-01	4.098465e-01
## result.2203	3	4.100444e-01	4.100465e-01
## result.2204	3	4.102444e-01	4.102465e-01
## result.2205	3	4.104445e-01	4.104466e-01
## result.2206	3	4.106445e-01	4.106466e-01
## result.2207	3	4.108445e-01	4.108466e-01
## result.2208	3	4.110445e-01	4.110466e-01
## result.2209	3	4.112445e-01	4.112466e-01
## result.2210	3	4.114445e-01	4.114466e-01
## result.2211	3	4.116446e-01	4.116467e-01
## result.2212	3	4.118446e-01	4.118467e-01
## result.2213	3	4.120446e-01	4.120467e-01
## result.2214	3	4.122446e-01	4.122467e-01
## result.2215	3	4.124446e-01	4.124467e-01
## result.2216	3	4.126447e-01	4.126468e-01
## result.2217	3	4.128447e-01	4.128468e-01
## result.2218	3	4.130447e-01	4.130468e-01
## result.2219	3	4.132447e-01	4.132468e-01
## result.2220	3	4.134447e-01	4.134468e-01
## result.2221	3	4.136448e-01	4.136469e-01
## result.2222	3	4.138448e-01	4.138469e-01
## result.2223	3	4.140448e-01	4.140469e-01
## result.2224	3	4.142448e-01	4.142469e-01
## result.2225	3	4.144448e-01	4.144469e-01
## result.2226	3	4.146449e-01	4.146470e-01
## result.2227	3	4.148449e-01	4.148470e-01
## result.2228	3	4.150449e-01	4.150470e-01
## result.2229	3	4.152449e-01	4.152470e-01
## result.2230	3	4.154449e-01	4.154470e-01
## result.2231	3	4.156450e-01	4.156470e-01
## result.2232	3	4.158450e-01	4.158471e-01
## result.2233	3	4.160450e-01	4.160471e-01
## result.2234	3	4.162450e-01	4.162471e-01
## result.2235	3	4.164450e-01	4.164471e-01
## result.2236	3	4.166451e-01	4.166471e-01
## result.2237	3	4.168451e-01	4.168472e-01

## result.2238	3	4.170451e-01	4.170472e-01
## result.2239	3	4.172451e-01	4.172472e-01
## result.2240	3	4.174451e-01	4.174472e-01
## result.2241	3	4.176452e-01	4.176472e-01
## result.2242	3	4.178452e-01	4.178473e-01
## result.2243	3	4.180452e-01	4.180473e-01
## result.2244	3	4.182452e-01	4.182473e-01
## result.2245	3	4.184452e-01	4.184473e-01
## result.2246	3	4.186453e-01	4.186473e-01
## result.2247	3	4.188453e-01	4.188474e-01
## result.2248	3	4.190453e-01	4.190474e-01
## result.2249	3	4.192453e-01	4.192474e-01
## result.2250	3	4.194453e-01	4.194474e-01
## result.2251	3	4.196454e-01	4.196474e-01
## result.2252	3	4.198454e-01	4.198475e-01
## result.2253	3	4.200454e-01	4.200475e-01
## result.2254	3	4.202454e-01	4.202475e-01
## result.2255	3	4.204454e-01	4.204475e-01
## result.2256	3	4.206455e-01	4.206475e-01
## result.2257	3	4.208455e-01	4.208475e-01
## result.2258	3	4.210455e-01	4.210476e-01
## result.2259	3	4.212455e-01	4.212476e-01
## result.2260	3	4.214455e-01	4.214476e-01
## result.2261	3	4.216456e-01	4.216476e-01
## result.2262	3	4.218456e-01	4.218476e-01
## result.2263	3	4.220456e-01	4.220477e-01
## result.2264	3	4.222456e-01	4.222477e-01
## result.2265	3	4.224456e-01	4.224477e-01
## result.2266	3	4.226457e-01	4.226477e-01
## result.2267	3	4.228457e-01	4.228477e-01
## result.2268	3	4.230457e-01	4.230478e-01
## result.2269	3	4.232457e-01	4.232478e-01
## result.2270	3	4.234457e-01	4.234478e-01
## result.2271	3	4.236458e-01	4.236478e-01
## result.2272	3	4.238458e-01	4.238478e-01
## result.2273	3	4.240458e-01	4.240479e-01
## result.2274	3	4.242458e-01	4.242479e-01
## result.2275	3	4.244458e-01	4.244479e-01
## result.2276	3	4.246459e-01	4.246479e-01
## result.2277	3	4.248459e-01	4.248479e-01
## result.2278	3	4.250459e-01	4.250479e-01
## result.2279	3	4.252459e-01	4.252480e-01
## result.2280	3	4.254459e-01	4.254480e-01
## result.2281	3	4.256460e-01	4.256480e-01
## result.2282	3	4.258460e-01	4.258480e-01
## result.2283	3	4.260460e-01	4.260480e-01
## result.2284	3	4.262460e-01	4.262481e-01
## result.2285	3	4.264460e-01	4.264481e-01
## result.2286	3	4.266461e-01	4.266481e-01
## result.2287	3	4.268461e-01	4.268481e-01
## result.2288	3	4.270461e-01	4.270481e-01
## result.2289	3	4.272461e-01	4.272482e-01
## result.2290	3	4.274461e-01	4.274482e-01
## result.2291	3	4.276462e-01	4.276482e-01

## result.2292	3	4.278462e-01	4.278482e-01
## result.2293	3	4.280462e-01	4.280482e-01
## result.2294	3	4.282462e-01	4.282483e-01
## result.2295	3	4.284462e-01	4.284483e-01
## result.2296	3	4.286463e-01	4.286483e-01
## result.2297	3	4.288463e-01	4.288483e-01
## result.2298	3	4.290463e-01	4.290483e-01
## result.2299	3	4.292463e-01	4.292484e-01
## result.2300	3	4.294463e-01	4.294484e-01
## result.2301	3	4.296464e-01	4.296484e-01
## result.2302	3	4.298464e-01	4.298484e-01
## result.2303	3	4.300464e-01	4.300484e-01
## result.2304	3	4.302464e-01	4.302484e-01
## result.2305	3	4.304464e-01	4.304485e-01
## result.2306	3	4.306465e-01	4.306485e-01
## result.2307	3	4.308465e-01	4.308485e-01
## result.2308	3	4.310465e-01	4.310485e-01
## result.2309	3	4.312465e-01	4.312485e-01
## result.2310	3	4.314465e-01	4.314486e-01
## result.2311	3	4.316466e-01	4.316486e-01
## result.2312	3	4.318466e-01	4.318486e-01
## result.2313	3	4.320466e-01	4.320486e-01
## result.2314	3	4.322466e-01	4.322486e-01
## result.2315	3	4.324466e-01	4.324487e-01
## result.2316	3	4.326467e-01	4.326487e-01
## result.2317	3	4.328467e-01	4.328487e-01
## result.2318	3	4.330467e-01	4.330487e-01
## result.2319	3	4.332467e-01	4.332487e-01
## result.2320	3	4.334467e-01	4.334488e-01
## result.2321	3	4.336468e-01	4.336488e-01
## result.2322	3	4.338468e-01	4.338488e-01
## result.2323	3	4.340468e-01	4.340488e-01
## result.2324	3	4.342468e-01	4.342488e-01
## result.2325	3	4.344468e-01	4.344488e-01
## result.2326	3	4.346469e-01	4.346489e-01
## result.2327	3	4.348469e-01	4.348489e-01
## result.2328	3	4.350469e-01	4.350489e-01
## result.2329	3	4.352469e-01	4.352489e-01
## result.2330	3	4.354469e-01	4.354489e-01
## result.2331	3	4.356470e-01	4.356490e-01
## result.2332	3	4.358470e-01	4.358490e-01
## result.2333	3	4.360470e-01	4.360490e-01
## result.2334	3	4.362470e-01	4.362490e-01
## result.2335	3	4.364470e-01	4.364490e-01
## result.2336	3	4.366471e-01	4.366491e-01
## result.2337	3	4.368471e-01	4.368491e-01
## result.2338	3	4.370471e-01	4.370491e-01
## result.2339	3	4.372471e-01	4.372491e-01
## result.2340	3	4.374471e-01	4.374491e-01
## result.2341	3	4.376472e-01	4.376492e-01
## result.2342	3	4.378472e-01	4.378492e-01
## result.2343	3	4.380472e-01	4.380492e-01
## result.2344	3	4.382472e-01	4.382492e-01
## result.2345	3	4.384472e-01	4.384492e-01

## result.2346	3	4.386473e-01	4.386492e-01
## result.2347	3	4.388473e-01	4.388493e-01
## result.2348	3	4.390473e-01	4.390493e-01
## result.2349	3	4.392473e-01	4.392493e-01
## result.2350	3	4.394473e-01	4.394493e-01
## result.2351	3	4.396474e-01	4.396493e-01
## result.2352	3	4.398474e-01	4.398494e-01
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## result.2354	3	4.402474e-01	4.402494e-01
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## result.2356	3	4.406475e-01	4.406494e-01
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## result.2358	3	4.410475e-01	4.410495e-01
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## result.2360	3	4.414475e-01	4.414495e-01
## result.2361	3	4.416476e-01	4.416495e-01
## result.2362	3	4.418476e-01	4.418496e-01
## result.2363	3	4.420476e-01	4.420496e-01
## result.2364	3	4.422476e-01	4.422496e-01
## result.2365	3	4.424476e-01	4.424496e-01
## result.2366	3	4.426476e-01	4.426496e-01
## result.2367	3	4.428477e-01	4.428497e-01
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## result.2369	3	4.432477e-01	4.432497e-01
## result.2370	3	4.434477e-01	4.434497e-01
## result.2371	3	4.436477e-01	4.436497e-01
## result.2372	3	4.438478e-01	4.438497e-01
## result.2373	3	4.440478e-01	4.440498e-01
## result.2374	3	4.442478e-01	4.442498e-01
## result.2375	3	4.444478e-01	4.444498e-01
## result.2376	3	4.446478e-01	4.446498e-01
## result.2377	3	4.448479e-01	4.448498e-01
## result.2378	3	4.450479e-01	4.450499e-01
## result.2379	3	4.452479e-01	4.452499e-01
## result.2380	3	4.454479e-01	4.454499e-01
## result.2381	3	4.456479e-01	4.456499e-01
## result.2382	3	4.458480e-01	4.458499e-01
## result.2383	3	4.460480e-01	4.460500e-01
## result.2384	3	4.462480e-01	4.462500e-01
## result.2385	3	4.464480e-01	4.464500e-01
## result.2386	3	4.466480e-01	4.466500e-01
## result.2387	3	4.468481e-01	4.468500e-01
## result.2388	3	4.470481e-01	4.470501e-01
## result.2389	3	4.472481e-01	4.472501e-01
## result.2390	3	4.474481e-01	4.474501e-01
## result.2391	3	4.476481e-01	4.476501e-01
## result.2392	3	4.478482e-01	4.478501e-01
## result.2393	3	4.480482e-01	4.480501e-01
## result.2394	3	4.482482e-01	4.482502e-01
## result.2395	3	4.484482e-01	4.484502e-01
## result.2396	3	4.486482e-01	4.486502e-01
## result.2397	3	4.488483e-01	4.488502e-01
## result.2398	3	4.490483e-01	4.490502e-01
## result.2399	3	4.492483e-01	4.492503e-01

## result.2400	3	4.494483e-01	4.494503e-01
## result.2401	3	4.496483e-01	4.496503e-01
## result.2402	3	4.498484e-01	4.498503e-01
## result.2403	3	4.500484e-01	4.500503e-01
## result.2404	3	4.502484e-01	4.502504e-01
## result.2405	3	4.504484e-01	4.504504e-01
## result.2406	3	4.506484e-01	4.506504e-01
## result.2407	3	4.508485e-01	4.508504e-01
## result.2408	3	4.510485e-01	4.510504e-01
## result.2409	3	4.512485e-01	4.512505e-01
## result.2410	3	4.514485e-01	4.514505e-01
## result.2411	3	4.516485e-01	4.516505e-01
## result.2412	3	4.518486e-01	4.518505e-01
## result.2413	3	4.520486e-01	4.520505e-01
## result.2414	3	4.522486e-01	4.522505e-01
## result.2415	3	4.524486e-01	4.524506e-01
## result.2416	3	4.526486e-01	4.526506e-01
## result.2417	3	4.528487e-01	4.528506e-01
## result.2418	3	4.530487e-01	4.530506e-01
## result.2419	3	4.532487e-01	4.532506e-01
## result.2420	3	4.534487e-01	4.534507e-01
## result.2421	3	4.536487e-01	4.536507e-01
## result.2422	3	4.538488e-01	4.538507e-01
## result.2423	3	4.540488e-01	4.540507e-01
## result.2424	3	4.542488e-01	4.542507e-01
## result.2425	3	4.544488e-01	4.544508e-01
## result.2426	3	4.546488e-01	4.546508e-01
## result.2427	3	4.548489e-01	4.548508e-01
## result.2428	3	4.550489e-01	4.550508e-01
## result.2429	3	4.552489e-01	4.552508e-01
## result.2430	3	4.554489e-01	4.554509e-01
## result.2431	3	4.556489e-01	4.556509e-01
## result.2432	3	4.558490e-01	4.558509e-01
## result.2433	3	4.560490e-01	4.560509e-01
## result.2434	3	4.562490e-01	4.562509e-01
## result.2435	3	4.564490e-01	4.564510e-01
## result.2436	3	4.566490e-01	4.566510e-01
## result.2437	3	4.568491e-01	4.568510e-01
## result.2438	3	4.570491e-01	4.570510e-01
## result.2439	3	4.572491e-01	4.572510e-01
## result.2440	3	4.574491e-01	4.574510e-01
## result.2441	3	4.576491e-01	4.576511e-01
## result.2442	3	4.578492e-01	4.578511e-01
## result.2443	3	4.580492e-01	4.580511e-01
## result.2444	3	4.582492e-01	4.582511e-01
## result.2445	3	4.584492e-01	4.584511e-01
## result.2446	3	4.586492e-01	4.586512e-01
## result.2447	3	4.588493e-01	4.588512e-01
## result.2448	3	4.590493e-01	4.590512e-01
## result.2449	3	4.592493e-01	4.592512e-01
## result.2450	3	4.594493e-01	4.594512e-01
## result.2451	3	4.596493e-01	4.596513e-01
## result.2452	3	4.598494e-01	4.598513e-01
## result.2453	3	4.600494e-01	4.600513e-01

## result.2454	3	4.602494e-01	4.602513e-01
## result.2455	3	4.604494e-01	4.604513e-01
## result.2456	3	4.606494e-01	4.606514e-01
## result.2457	3	4.608495e-01	4.608514e-01
## result.2458	3	4.610495e-01	4.610514e-01
## result.2459	3	4.612495e-01	4.612514e-01
## result.2460	3	4.614495e-01	4.614514e-01
## result.2461	3	4.616495e-01	4.616514e-01
## result.2462	3	4.618496e-01	4.618515e-01
## result.2463	3	4.620496e-01	4.620515e-01
## result.2464	3	4.622496e-01	4.622515e-01
## result.2465	3	4.624496e-01	4.624515e-01
## result.2466	3	4.626496e-01	4.626515e-01
## result.2467	3	4.628497e-01	4.628516e-01
## result.2468	3	4.630497e-01	4.630516e-01
## result.2469	3	4.632497e-01	4.632516e-01
## result.2470	3	4.634497e-01	4.634516e-01
## result.2471	3	4.636497e-01	4.636516e-01
## result.2472	3	4.638498e-01	4.638517e-01
## result.2473	3	4.640498e-01	4.640517e-01
## result.2474	3	4.642498e-01	4.642517e-01
## result.2475	3	4.644498e-01	4.644517e-01
## result.2476	3	4.646498e-01	4.646517e-01
## result.2477	3	4.648499e-01	4.648518e-01
## result.2478	3	4.650499e-01	4.650518e-01
## result.2479	3	4.652499e-01	4.652518e-01
## result.2480	3	4.654499e-01	4.654518e-01
## result.2481	3	4.656499e-01	4.656518e-01
## result.2482	3	4.658500e-01	4.658518e-01
## result.2483	3	4.660500e-01	4.660519e-01
## result.2484	3	4.662500e-01	4.662519e-01
## result.2485	3	4.664500e-01	4.664519e-01
## result.2486	3	4.666500e-01	4.666519e-01
## result.2487	3	4.668501e-01	4.668519e-01
## result.2488	3	4.670501e-01	4.670520e-01
## result.2489	3	4.672501e-01	4.672520e-01
## result.2490	3	4.674501e-01	4.674520e-01
## result.2491	3	4.676501e-01	4.676520e-01
## result.2492	3	4.678502e-01	4.678520e-01
## result.2493	3	4.680502e-01	4.680521e-01
## result.2494	3	4.682502e-01	4.682521e-01
## result.2495	3	4.684502e-01	4.684521e-01
## result.2496	3	4.686502e-01	4.686521e-01
## result.2497	3	4.688503e-01	4.688521e-01
## result.2498	3	4.690503e-01	4.690522e-01
## result.2499	3	4.692503e-01	4.692522e-01
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## result.2502	3	4.698504e-01	4.698522e-01
## result.2503	3	4.700504e-01	4.700523e-01
## result.2504	3	4.702504e-01	4.702523e-01
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## result.2507	3	4.708505e-01	4.708523e-01

## result.2508	3	4.710505e-01	4.710523e-01
## result.2509	3	4.712505e-01	4.712524e-01
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## result.2512	3	4.718506e-01	4.718524e-01
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## result.2515	3	4.724506e-01	4.724525e-01
## result.2516	3	4.726506e-01	4.726525e-01
## result.2517	3	4.728507e-01	4.728525e-01
## result.2518	3	4.730507e-01	4.730525e-01
## result.2519	3	4.732507e-01	4.732526e-01
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## result.2522	3	4.738507e-01	4.738526e-01
## result.2523	3	4.740508e-01	4.740526e-01
## result.2524	3	4.742508e-01	4.742527e-01
## result.2525	3	4.744508e-01	4.744527e-01
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## result.2559	3	4.812515e-01	4.812533e-01
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## result.2577	3	4.848518e-01	4.848537e-01
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## result.2580	3	4.854519e-01	4.854537e-01
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## result.2582	3	4.858519e-01	4.858538e-01
## result.2583	3	4.860520e-01	4.860538e-01
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## result.2585	3	4.864520e-01	4.864538e-01
## result.2586	3	4.866520e-01	4.866538e-01
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## result.2589	3	4.872521e-01	4.872539e-01
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## result.2592	3	4.878521e-01	4.878540e-01
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## result.2605	3	4.904524e-01	4.904542e-01
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## result.2607	3	4.908524e-01	4.908542e-01
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## result.2638	3	4.970531e-01	4.970548e-01
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## result.2640	3	4.974531e-01	4.974549e-01
## result.2641	3	4.976531e-01	4.976549e-01
## result.2642	3	4.978531e-01	4.978549e-01
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## result.2644	3	4.982532e-01	4.982549e-01
## result.2645	3	4.984532e-01	4.984550e-01
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## result.2648	3	4.990533e-01	4.990550e-01
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## result.2756	3	5.206554e-01	5.206571e-01
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## result.2783	3	5.260559e-01	5.260576e-01
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## result.2797	3	5.288562e-01	5.288579e-01
## result.2798	3	5.290562e-01	5.290579e-01
## result.2799	3	5.292563e-01	5.292579e-01
## result.2800	3	5.294563e-01	5.294579e-01
## result.2801	3	5.296563e-01	5.296579e-01
## result.2802	3	5.298563e-01	5.298580e-01
## result.2803	3	5.300563e-01	5.300580e-01
## result.2804	3	5.302564e-01	5.302580e-01
## result.2805	3	5.304564e-01	5.304580e-01
## result.2806	3	5.306564e-01	5.306580e-01
## result.2807	3	5.308564e-01	5.308581e-01
## result.2808	3	5.310564e-01	5.310581e-01
## result.2809	3	5.312565e-01	5.312581e-01
## result.2810	3	5.314565e-01	5.314581e-01
## result.2811	3	5.316565e-01	5.316581e-01
## result.2812	3	5.318565e-01	5.318582e-01
## result.2813	3	5.320565e-01	5.320582e-01
## result.2814	3	5.322566e-01	5.322582e-01
## result.2815	3	5.324566e-01	5.324582e-01
## result.2816	3	5.326566e-01	5.326582e-01
## result.2817	3	5.328566e-01	5.328583e-01
## result.2818	3	5.330566e-01	5.330583e-01
## result.2819	3	5.332567e-01	5.332583e-01
## result.2820	3	5.334567e-01	5.334583e-01
## result.2821	3	5.336567e-01	5.336583e-01
## result.2822	3	5.338567e-01	5.338584e-01
## result.2823	3	5.340567e-01	5.340584e-01
## result.2824	3	5.342568e-01	5.342584e-01
## result.2825	3	5.344568e-01	5.344584e-01
## result.2826	3	5.346568e-01	5.346584e-01
## result.2827	3	5.348568e-01	5.348584e-01
## result.2828	3	5.350568e-01	5.350585e-01
## result.2829	3	5.352569e-01	5.352585e-01
## result.2830	3	5.354569e-01	5.354585e-01
## result.2831	3	5.356569e-01	5.356585e-01

## result.2832	3	5.358569e-01	5.358585e-01
## result.2833	3	5.360569e-01	5.360586e-01
## result.2834	3	5.362569e-01	5.362586e-01
## result.2835	3	5.364570e-01	5.364586e-01
## result.2836	3	5.366570e-01	5.366586e-01
## result.2837	3	5.368570e-01	5.368586e-01
## result.2838	3	5.370570e-01	5.370587e-01
## result.2839	3	5.372570e-01	5.372587e-01
## result.2840	3	5.374571e-01	5.374587e-01
## result.2841	3	5.376571e-01	5.376587e-01
## result.2842	3	5.378571e-01	5.378587e-01
## result.2843	3	5.380571e-01	5.380588e-01
## result.2844	3	5.382571e-01	5.382588e-01
## result.2845	3	5.384572e-01	5.384588e-01
## result.2846	3	5.386572e-01	5.386588e-01
## result.2847	3	5.388572e-01	5.388588e-01
## result.2848	3	5.390572e-01	5.390588e-01
## result.2849	3	5.392572e-01	5.392589e-01
## result.2850	3	5.394573e-01	5.394589e-01
## result.2851	3	5.396573e-01	5.396589e-01
## result.2852	3	5.398573e-01	5.398589e-01
## result.2853	3	5.400573e-01	5.400589e-01
## result.2854	3	5.402573e-01	5.402590e-01
## result.2855	3	5.404574e-01	5.404590e-01
## result.2856	3	5.406574e-01	5.406590e-01
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## result.2858	3	5.410574e-01	5.410590e-01
## result.2859	3	5.412574e-01	5.412591e-01
## result.2860	3	5.414575e-01	5.414591e-01
## result.2861	3	5.416575e-01	5.416591e-01
## result.2862	3	5.418575e-01	5.418591e-01
## result.2863	3	5.420575e-01	5.420591e-01
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## result.2866	3	5.426576e-01	5.426592e-01
## result.2867	3	5.428576e-01	5.428592e-01
## result.2868	3	5.430576e-01	5.430592e-01
## result.2869	3	5.432576e-01	5.432592e-01
## result.2870	3	5.434577e-01	5.434593e-01
## result.2871	3	5.436577e-01	5.436593e-01
## result.2872	3	5.438577e-01	5.438593e-01
## result.2873	3	5.440577e-01	5.440593e-01
## result.2874	3	5.442577e-01	5.442593e-01
## result.2875	3	5.444578e-01	5.444594e-01
## result.2876	3	5.446578e-01	5.446594e-01
## result.2877	3	5.448578e-01	5.448594e-01
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## result.2879	3	5.452578e-01	5.452594e-01
## result.2880	3	5.454579e-01	5.454595e-01
## result.2881	3	5.456579e-01	5.456595e-01
## result.2882	3	5.458579e-01	5.458595e-01
## result.2883	3	5.460579e-01	5.460595e-01
## result.2884	3	5.462579e-01	5.462595e-01
## result.2885	3	5.464580e-01	5.464596e-01

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## result.2888	3	5.470580e-01	5.470596e-01
## result.2889	3	5.472580e-01	5.472596e-01
## result.2890	3	5.474581e-01	5.474597e-01
## result.2891	3	5.476581e-01	5.476597e-01
## result.2892	3	5.478581e-01	5.478597e-01
## result.2893	3	5.480581e-01	5.480597e-01
## result.2894	3	5.482581e-01	5.482597e-01
## result.2895	3	5.484582e-01	5.484597e-01
## result.2896	3	5.486582e-01	5.486598e-01
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## result.2902	3	5.498583e-01	5.498599e-01
## result.2903	3	5.500583e-01	5.500599e-01
## result.2904	3	5.502583e-01	5.502599e-01
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## result.2906	3	5.506584e-01	5.506600e-01
## result.2907	3	5.508584e-01	5.508600e-01
## result.2908	3	5.510584e-01	5.510600e-01
## result.2909	3	5.512584e-01	5.512600e-01
## result.2910	3	5.514585e-01	5.514600e-01
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## result.2912	3	5.518585e-01	5.518601e-01
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## result.2916	3	5.526586e-01	5.526601e-01
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## result.2919	3	5.532586e-01	5.532602e-01
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## result.2991	3	5.676601e-01	5.676616e-01
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## result.2998	3	5.690602e-01	5.690617e-01
## result.2999	3	5.692602e-01	5.692617e-01
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## result.3002	3	5.698603e-01	5.698618e-01
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## result.3014	3	5.722605e-01	5.722620e-01
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## result.3080	3	5.854618e-01	5.854633e-01
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## result.3088	3	5.870620e-01	5.870634e-01
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## result.3092	3	5.878621e-01	5.878635e-01
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## result.3101	3	5.896623e-01	5.896637e-01

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## result.3103	3	5.900623e-01	5.900637e-01
## result.3104	3	5.902623e-01	5.902637e-01
## result.3105	3	5.904623e-01	5.904638e-01
## result.3106	3	5.906624e-01	5.906638e-01
## result.3107	3	5.908624e-01	5.908638e-01
## result.3108	3	5.910624e-01	5.910638e-01
## result.3109	3	5.912624e-01	5.912638e-01
## result.3110	3	5.914624e-01	5.914639e-01
## result.3111	3	5.916625e-01	5.916639e-01
## result.3112	3	5.918625e-01	5.918639e-01
## result.3113	3	5.920625e-01	5.920639e-01
## result.3114	3	5.922625e-01	5.922639e-01
## result.3115	3	5.924625e-01	5.924640e-01
## result.3116	3	5.926626e-01	5.926640e-01
## result.3117	3	5.928626e-01	5.928640e-01
## result.3118	3	5.930626e-01	5.930640e-01
## result.3119	3	5.932626e-01	5.932640e-01
## result.3120	3	5.934626e-01	5.934640e-01
## result.3121	3	5.936627e-01	5.936641e-01
## result.3122	3	5.938627e-01	5.938641e-01
## result.3123	3	5.940627e-01	5.940641e-01
## result.3124	3	5.942627e-01	5.942641e-01
## result.3125	3	5.944627e-01	5.944641e-01
## result.3126	3	5.946628e-01	5.946642e-01
## result.3127	3	5.948628e-01	5.948642e-01
## result.3128	3	5.950628e-01	5.950642e-01
## result.3129	3	5.952628e-01	5.952642e-01
## result.3130	3	5.954628e-01	5.954642e-01
## result.3131	3	5.956629e-01	5.956643e-01
## result.3132	3	5.958629e-01	5.958643e-01
## result.3133	3	5.960629e-01	5.960643e-01
## result.3134	3	5.962629e-01	5.962643e-01
## result.3135	3	5.964629e-01	5.964643e-01
## result.3136	3	5.966630e-01	5.966644e-01
## result.3137	3	5.968630e-01	5.968644e-01
## result.3138	3	5.970630e-01	5.970644e-01
## result.3139	3	5.972630e-01	5.972644e-01
## result.3140	3	5.974630e-01	5.974644e-01
## result.3141	3	5.976631e-01	5.976645e-01
## result.3142	3	5.978631e-01	5.978645e-01
## result.3143	3	5.980631e-01	5.980645e-01
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## result.3146	3	5.986631e-01	5.986645e-01
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## result.3148	3	5.990632e-01	5.990646e-01
## result.3149	3	5.992632e-01	5.992646e-01
## result.3150	3	5.994632e-01	5.994646e-01
## result.3151	3	5.996632e-01	5.996646e-01
## result.3152	3	5.998633e-01	5.998647e-01
## result.3153	3	6.000633e-01	6.000647e-01
## result.3154	3	6.002633e-01	6.002647e-01
## result.3155	3	6.004633e-01	6.004647e-01

## result.3156	3	6.006633e-01	6.006647e-01
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## result.3160	3	6.014634e-01	6.014648e-01
## result.3161	3	6.016634e-01	6.016648e-01
## result.3162	3	6.018635e-01	6.018649e-01
## result.3163	3	6.020635e-01	6.020649e-01
## result.3164	3	6.022635e-01	6.022649e-01
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## result.3167	3	6.028636e-01	6.028649e-01
## result.3168	3	6.030636e-01	6.030650e-01
## result.3169	3	6.032636e-01	6.032650e-01
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## result.3171	3	6.036636e-01	6.036650e-01
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## result.3173	3	6.040637e-01	6.040651e-01
## result.3174	3	6.042637e-01	6.042651e-01
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## result.3176	3	6.046637e-01	6.046651e-01
## result.3177	3	6.048638e-01	6.048651e-01
## result.3178	3	6.050638e-01	6.050652e-01
## result.3179	3	6.052638e-01	6.052652e-01
## result.3180	3	6.054638e-01	6.054652e-01
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## result.3182	3	6.058639e-01	6.058652e-01
## result.3183	3	6.060639e-01	6.060653e-01
## result.3184	3	6.062639e-01	6.062653e-01
## result.3185	3	6.064639e-01	6.064653e-01
## result.3186	3	6.066639e-01	6.066653e-01
## result.3187	3	6.068640e-01	6.068653e-01
## result.3188	3	6.070640e-01	6.070653e-01
## result.3189	3	6.072640e-01	6.072654e-01
## result.3190	3	6.074640e-01	6.074654e-01
## result.3191	3	6.076640e-01	6.076654e-01
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## result.3193	3	6.080641e-01	6.080654e-01
## result.3194	3	6.082641e-01	6.082655e-01
## result.3195	3	6.084641e-01	6.084655e-01
## result.3196	3	6.086641e-01	6.086655e-01
## result.3197	3	6.088642e-01	6.088655e-01
## result.3198	3	6.090642e-01	6.090655e-01
## result.3199	3	6.092642e-01	6.092656e-01
## result.3200	3	6.094642e-01	6.094656e-01
## result.3201	3	6.096642e-01	6.096656e-01
## result.3202	3	6.098643e-01	6.098656e-01
## result.3203	3	6.100643e-01	6.100656e-01
## result.3204	3	6.102643e-01	6.102657e-01
## result.3205	3	6.104643e-01	6.104657e-01
## result.3206	3	6.106643e-01	6.106657e-01
## result.3207	3	6.108644e-01	6.108657e-01
## result.3208	3	6.110644e-01	6.110657e-01
## result.3209	3	6.112644e-01	6.112658e-01

## result.3210	3	6.114644e-01	6.114658e-01
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## result.3213	3	6.120645e-01	6.120658e-01
## result.3214	3	6.122645e-01	6.122658e-01
## result.3215	3	6.124645e-01	6.124659e-01
## result.3216	3	6.126645e-01	6.126659e-01
## result.3217	3	6.128646e-01	6.128659e-01
## result.3218	3	6.130646e-01	6.130659e-01
## result.3219	3	6.132646e-01	6.132659e-01
## result.3220	3	6.134646e-01	6.134660e-01
## result.3221	3	6.136646e-01	6.136660e-01
## result.3222	3	6.138647e-01	6.138660e-01
## result.3223	3	6.140647e-01	6.140660e-01
## result.3224	3	6.142647e-01	6.142660e-01
## result.3225	3	6.144647e-01	6.144661e-01
## result.3226	3	6.146647e-01	6.146661e-01
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## result.3228	3	6.150648e-01	6.150661e-01
## result.3229	3	6.152648e-01	6.152661e-01
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## result.3234	3	6.162649e-01	6.162662e-01
## result.3235	3	6.164649e-01	6.164662e-01
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## result.3237	3	6.168650e-01	6.168663e-01
## result.3238	3	6.170650e-01	6.170663e-01
## result.3239	3	6.172650e-01	6.172663e-01
## result.3240	3	6.174650e-01	6.174663e-01
## result.3241	3	6.176650e-01	6.176664e-01
## result.3242	3	6.178651e-01	6.178664e-01
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## result.3244	3	6.182651e-01	6.182664e-01
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## result.3247	3	6.188652e-01	6.188665e-01
## result.3248	3	6.190652e-01	6.190665e-01
## result.3249	3	6.192652e-01	6.192665e-01
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## result.3258	3	6.210654e-01	6.210667e-01
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## result.3271	3	6.236656e-01	6.236669e-01
## result.3272	3	6.238657e-01	6.238670e-01
## result.3273	3	6.240657e-01	6.240670e-01
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## result.3326	3	6.346667e-01	6.346680e-01
## result.3327	3	6.348667e-01	6.348680e-01
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## result.3338	3	6.370670e-01	6.370682e-01
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## result.3345	3	6.384671e-01	6.384684e-01
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## result.3391	3	6.476680e-01	6.476692e-01
## result.3392	3	6.478680e-01	6.478693e-01
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## result.3395	3	6.484681e-01	6.484693e-01
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## result.3398	3	6.490682e-01	6.490694e-01
## result.3399	3	6.492682e-01	6.492694e-01
## result.3400	3	6.494682e-01	6.494694e-01
## result.3401	3	6.496682e-01	6.496694e-01
## result.3402	3	6.498682e-01	6.498694e-01
## result.3403	3	6.500683e-01	6.500695e-01
## result.3404	3	6.502683e-01	6.502695e-01
## result.3405	3	6.504683e-01	6.504695e-01
## result.3406	3	6.506683e-01	6.506695e-01
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## result.3408	3	6.510684e-01	6.510696e-01
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## result.3410	3	6.514684e-01	6.514696e-01
## result.3411	3	6.516684e-01	6.516696e-01
## result.3412	3	6.518684e-01	6.518696e-01
## result.3413	3	6.520685e-01	6.520697e-01
## result.3414	3	6.522685e-01	6.522697e-01
## result.3415	3	6.524685e-01	6.524697e-01
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## result.3756	3	7.206753e-01	7.206762e-01
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## result.3796	3	7.286761e-01	7.286770e-01
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## result.3802	3	7.298762e-01	7.298771e-01
## result.3803	3	7.300762e-01	7.300771e-01

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## result.3805	3	7.304762e-01	7.304771e-01
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## result.3808	3	7.310763e-01	7.310772e-01
## result.3809	3	7.312763e-01	7.312772e-01
## result.3810	3	7.314763e-01	7.314772e-01
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## result.3819	3	7.332765e-01	7.332774e-01
## result.3820	3	7.334765e-01	7.334774e-01
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## result.3991	3	7.676799e-01	7.676807e-01
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## result.3993	3	7.680800e-01	7.680807e-01
## result.3994	3	7.682800e-01	7.682808e-01
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## result.4002	3	7.698802e-01	7.698809e-01
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## result.4004	3	7.702802e-01	7.702810e-01
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## result.4010	3	7.714803e-01	7.714811e-01
## result.4011	3	7.716803e-01	7.716811e-01
## result.4012	3	7.718804e-01	7.718811e-01
## result.4013	3	7.720804e-01	7.720811e-01
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## result.4019	3	7.732805e-01	7.732812e-01

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## result.4036	3	7.766808e-01	7.766816e-01
## result.4037	3	7.768809e-01	7.768816e-01
## result.4038	3	7.770809e-01	7.770816e-01
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## result.4041	3	7.776809e-01	7.776817e-01
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## result.4056	3	7.806812e-01	7.806819e-01
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## result.4063	3	7.820814e-01	7.820821e-01
## result.4064	3	7.822814e-01	7.822821e-01
## result.4065	3	7.824814e-01	7.824821e-01
## result.4066	3	7.826814e-01	7.826821e-01
## result.4067	3	7.828815e-01	7.828822e-01
## result.4068	3	7.830815e-01	7.830822e-01
## result.4069	3	7.832815e-01	7.832822e-01
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## result.4071	3	7.836815e-01	7.836822e-01
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## result.4079	3	7.852817e-01	7.852824e-01
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## result.4086	3	7.866818e-01	7.866825e-01
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## result.4089	3	7.872819e-01	7.872826e-01
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## result.4091	3	7.876819e-01	7.876826e-01
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## result.4095	3	7.884820e-01	7.884827e-01
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## result.4106	3	7.906822e-01	7.906829e-01
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## result.4112	3	7.918823e-01	7.918830e-01
## result.4113	3	7.920824e-01	7.920830e-01
## result.4114	3	7.922824e-01	7.922831e-01
## result.4115	3	7.924824e-01	7.924831e-01
## result.4116	3	7.926824e-01	7.926831e-01
## result.4117	3	7.928824e-01	7.928831e-01
## result.4118	3	7.930825e-01	7.930831e-01
## result.4119	3	7.932825e-01	7.932832e-01
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## result.4125	3	7.944826e-01	7.944833e-01
## result.4126	3	7.946826e-01	7.946833e-01
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## result.4132	3	7.958827e-01	7.958834e-01
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## result.4141	3	7.976829e-01	7.976836e-01
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## result.4149	3	7.992831e-01	7.992837e-01
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## result.4201	3	8.096841e-01	8.096847e-01
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## result.4232	3	8.158847e-01	8.158853e-01
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## result.4306	3	8.306862e-01	8.306867e-01
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## result.4309	3	8.312863e-01	8.312868e-01
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## result.4316	3	8.326864e-01	8.326869e-01
## result.4317	3	8.328864e-01	8.328869e-01
## result.4318	3	8.330864e-01	8.330870e-01
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## result.4321	3	8.336865e-01	8.336870e-01
## result.4322	3	8.338865e-01	8.338870e-01
## result.4323	3	8.340865e-01	8.340871e-01
## result.4324	3	8.342866e-01	8.342871e-01
## result.4325	3	8.344866e-01	8.344871e-01
## result.4326	3	8.346866e-01	8.346871e-01
## result.4327	3	8.348866e-01	8.348871e-01
## result.4328	3	8.350866e-01	8.350871e-01
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## result.4437	3	8.568888e-01	8.568892e-01
## result.4438	3	8.570888e-01	8.570893e-01
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## result.4648	3	8.990930e-01	8.990933e-01
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## result.4650	3	8.994930e-01	8.994933e-01
## result.4651	3	8.996931e-01	8.996933e-01
## result.4652	3	8.998931e-01	8.998933e-01
## result.4653	3	9.000931e-01	9.000934e-01
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## result.4656	3	9.006932e-01	9.006934e-01
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## result.4660	3	9.014932e-01	9.014935e-01
## result.4661	3	9.016933e-01	9.016935e-01
## result.4662	3	9.018933e-01	9.018935e-01
## result.4663	3	9.020933e-01	9.020936e-01
## result.4664	3	9.022933e-01	9.022936e-01
## result.4665	3	9.024933e-01	9.024936e-01
## result.4666	3	9.026934e-01	9.026936e-01
## result.4667	3	9.028934e-01	9.028936e-01

## result.4668	3	9.030934e-01	9.030937e-01
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## result.4670	3	9.034934e-01	9.034937e-01
## result.4671	3	9.036935e-01	9.036937e-01
## result.4672	3	9.038935e-01	9.038937e-01
## result.4673	3	9.040935e-01	9.040937e-01
## result.4674	3	9.042935e-01	9.042938e-01
## result.4675	3	9.044935e-01	9.044938e-01
## result.4676	3	9.046936e-01	9.046938e-01
## result.4677	3	9.048936e-01	9.048938e-01
## result.4678	3	9.050936e-01	9.050938e-01
## result.4679	3	9.052936e-01	9.052939e-01
## result.4680	3	9.054936e-01	9.054939e-01
## result.4681	3	9.056937e-01	9.056939e-01
## result.4682	3	9.058937e-01	9.058939e-01
## result.4683	3	9.060937e-01	9.060939e-01
## result.4684	3	9.062937e-01	9.062940e-01
## result.4685	3	9.064937e-01	9.064940e-01
## result.4686	3	9.066938e-01	9.066940e-01
## result.4687	3	9.068938e-01	9.068940e-01
## result.4688	3	9.070938e-01	9.070940e-01
## result.4689	3	9.072938e-01	9.072941e-01
## result.4690	3	9.074938e-01	9.074941e-01
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## result.4696	3	9.086940e-01	9.086942e-01
## result.4697	3	9.088940e-01	9.088942e-01
## result.4698	3	9.090940e-01	9.090942e-01
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## result.4700	3	9.094940e-01	9.094943e-01
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## result.4704	3	9.102941e-01	9.102943e-01
## result.4705	3	9.104941e-01	9.104944e-01
## result.4706	3	9.106941e-01	9.106944e-01
## result.4707	3	9.108942e-01	9.108944e-01
## result.4708	3	9.110942e-01	9.110944e-01
## result.4709	3	9.112942e-01	9.112944e-01
## result.4710	3	9.114942e-01	9.114945e-01
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## result.4713	3	9.120943e-01	9.120945e-01
## result.4714	3	9.122943e-01	9.122945e-01
## result.4715	3	9.124943e-01	9.124945e-01
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## result.4718	3	9.130944e-01	9.130946e-01
## result.4719	3	9.132944e-01	9.132946e-01
## result.4720	3	9.134944e-01	9.134946e-01
## result.4721	3	9.136944e-01	9.136947e-01

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## result.4724	3	9.142945e-01	9.142947e-01
## result.4725	3	9.144945e-01	9.144947e-01
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## result.4727	3	9.148946e-01	9.148948e-01
## result.4728	3	9.150946e-01	9.150948e-01
## result.4729	3	9.152946e-01	9.152948e-01
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## result.4731	3	9.156946e-01	9.156949e-01
## result.4732	3	9.158947e-01	9.158949e-01
## result.4733	3	9.160947e-01	9.160949e-01
## result.4734	3	9.162947e-01	9.162949e-01
## result.4735	3	9.164947e-01	9.164949e-01
## result.4736	3	9.166947e-01	9.166950e-01
## result.4737	3	9.168948e-01	9.168950e-01
## result.4738	3	9.170948e-01	9.170950e-01
## result.4739	3	9.172948e-01	9.172950e-01
## result.4740	3	9.174948e-01	9.174950e-01
## result.4741	3	9.176948e-01	9.176950e-01
## result.4742	3	9.178949e-01	9.178951e-01
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## result.4745	3	9.184949e-01	9.184951e-01
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## result.4748	3	9.190950e-01	9.190952e-01
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## result.4751	3	9.196950e-01	9.196952e-01
## result.4752	3	9.198951e-01	9.198953e-01
## result.4753	3	9.200951e-01	9.200953e-01
## result.4754	3	9.202951e-01	9.202953e-01
## result.4755	3	9.204951e-01	9.204953e-01
## result.4756	3	9.206951e-01	9.206953e-01
## result.4757	3	9.208952e-01	9.208954e-01
## result.4758	3	9.210952e-01	9.210954e-01
## result.4759	3	9.212952e-01	9.212954e-01
## result.4760	3	9.214952e-01	9.214954e-01
## result.4761	3	9.216952e-01	9.216954e-01
## result.4762	3	9.218953e-01	9.218954e-01
## result.4763	3	9.220953e-01	9.220955e-01
## result.4764	3	9.222953e-01	9.222955e-01
## result.4765	3	9.224953e-01	9.224955e-01
## result.4766	3	9.226953e-01	9.226955e-01
## result.4767	3	9.228954e-01	9.228955e-01
## result.4768	3	9.230954e-01	9.230956e-01
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## result.4770	3	9.234954e-01	9.234956e-01
## result.4771	3	9.236954e-01	9.236956e-01
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## result.4782	3	9.258957e-01	9.258958e-01
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## result.4788	3	9.270958e-01	9.270959e-01
## result.4789	3	9.272958e-01	9.272960e-01
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## result.4791	3	9.276958e-01	9.276960e-01
## result.4792	3	9.278959e-01	9.278960e-01
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## result.4800	3	9.294960e-01	9.294962e-01
## result.4801	3	9.296960e-01	9.296962e-01
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## result.4804	3	9.302961e-01	9.302963e-01
## result.4805	3	9.304961e-01	9.304963e-01
## result.4806	3	9.306961e-01	9.306963e-01
## result.4807	3	9.308962e-01	9.308963e-01
## result.4808	3	9.310962e-01	9.310963e-01
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## result.4810	3	9.314962e-01	9.314964e-01
## result.4811	3	9.316962e-01	9.316964e-01
## result.4812	3	9.318963e-01	9.318964e-01
## result.4813	3	9.320963e-01	9.320964e-01
## result.4814	3	9.322963e-01	9.322964e-01
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## result.4824	3	9.342965e-01	9.342966e-01
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## result.4917	3	9.528983e-01	9.528984e-01
## result.4918	3	9.530984e-01	9.530984e-01
## result.4919	3	9.532984e-01	9.532984e-01
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## result.4921	3	9.536984e-01	9.536985e-01
## result.4922	3	9.538984e-01	9.538985e-01
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## result.4925	3	9.544985e-01	9.544986e-01
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## result.4931	3	9.556986e-01	9.556987e-01
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## result.4935	3	9.564987e-01	9.564988e-01
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## result.4940	3	9.574988e-01	9.574989e-01
## result.4941	3	9.576988e-01	9.576989e-01
## result.4942	3	9.578988e-01	9.578989e-01
## result.4943	3	9.580989e-01	9.580989e-01
## result.4944	3	9.582989e-01	9.582989e-01
## result.4945	3	9.584989e-01	9.584989e-01
## result.4946	3	9.586989e-01	9.586990e-01
## result.4947	3	9.588989e-01	9.588990e-01
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## result.4949	3	9.592990e-01	9.592990e-01
## result.4950	3	9.594990e-01	9.594990e-01
## result.4951	3	9.596990e-01	9.596991e-01
## result.4952	3	9.598990e-01	9.598991e-01
## result.4953	3	9.600991e-01	9.600991e-01
## result.4954	3	9.602991e-01	9.602991e-01
## result.4955	3	9.604991e-01	9.604991e-01
## result.4956	3	9.606991e-01	9.606992e-01
## result.4957	3	9.608991e-01	9.608992e-01
## result.4958	3	9.610992e-01	9.610992e-01
## result.4959	3	9.612992e-01	9.612992e-01
## result.4960	3	9.614992e-01	9.614992e-01
## result.4961	3	9.616992e-01	9.616993e-01
## result.4962	3	9.618992e-01	9.618993e-01
## result.4963	3	9.620993e-01	9.620993e-01
## result.4964	3	9.622993e-01	9.622993e-01
## result.4965	3	9.624993e-01	9.624993e-01
## result.4966	3	9.626993e-01	9.626993e-01
## result.4967	3	9.628993e-01	9.628994e-01
## result.4968	3	9.630994e-01	9.630994e-01
## result.4969	3	9.632994e-01	9.632994e-01
## result.4970	3	9.634994e-01	9.634994e-01
## result.4971	3	9.636994e-01	9.636994e-01
## result.4972	3	9.638994e-01	9.638995e-01
## result.4973	3	9.640995e-01	9.640995e-01
## result.4974	3	9.642995e-01	9.642995e-01
## result.4975	3	9.644995e-01	9.644995e-01
## result.4976	3	9.646995e-01	9.646995e-01
## result.4977	3	9.648995e-01	9.648996e-01
## result.4978	3	9.650996e-01	9.650996e-01
## result.4979	3	9.652996e-01	9.652996e-01
## result.4980	3	9.654996e-01	9.654996e-01
## result.4981	3	9.656996e-01	9.656996e-01
## result.4982	3	9.658996e-01	9.658997e-01
## result.4983	3	9.660997e-01	9.660997e-01
## result.4984	3	9.662997e-01	9.662997e-01
## result.4985	3	9.664997e-01	9.664997e-01
## result.4986	3	9.666997e-01	9.666997e-01
## result.4987	3	9.668997e-01	9.668997e-01
## result.4988	3	9.670998e-01	9.670998e-01
## result.4989	3	9.672998e-01	9.672998e-01
## result.4990	3	9.674998e-01	9.674998e-01
## result.4991	3	9.676998e-01	9.676998e-01

## result.4992	3	9.678998e-01	9.678998e-01
## result.4993	3	9.680999e-01	9.680999e-01
## result.4994	3	9.682999e-01	9.682999e-01
## result.4995	3	9.684999e-01	9.684999e-01
## result.4996	3	9.686999e-01	9.686999e-01
## result.4997	3	9.688999e-01	9.688999e-01
## result.4998	3	9.691000e-01	9.691000e-01
## result.4999	3	9.693000e-01	9.693000e-01
## result.5000	3	9.695000e-01	9.695000e-01
## result.5001	3	9.697000e-01	9.697000e-01
## result.5002	3	9.699000e-01	9.699000e-01
## result.5003	3	9.701001e-01	9.701001e-01
## result.5004	3	9.703001e-01	9.703001e-01
## result.5005	3	9.705001e-01	9.705001e-01
## result.5006	3	9.707001e-01	9.707001e-01
## result.5007	3	9.709001e-01	9.709001e-01
## result.5008	3	9.711002e-01	9.711002e-01
## result.5009	2	9.713002e-01	2.003300e+00
## result.5010	2	9.715002e-01	2.003500e+00
## result.5011	2	9.717002e-01	2.003700e+00
## result.5012	2	9.719002e-01	2.003900e+00
## result.5013	2	9.721003e-01	2.004100e+00
## result.5014	2	9.723003e-01	2.004300e+00
## result.5015	2	9.725003e-01	2.004500e+00
## result.5016	2	9.727003e-01	2.004700e+00
## result.5017	2	9.729003e-01	2.004900e+00
## result.5018	2	9.731004e-01	2.005100e+00
## result.5019	2	9.733004e-01	2.005300e+00
## result.5020	2	9.735004e-01	2.005500e+00
## result.5021	2	9.737004e-01	2.005700e+00
## result.5022	2	9.739004e-01	2.005900e+00
## result.5023	2	9.741004e-01	2.006100e+00
## result.5024	2	9.743005e-01	2.006300e+00
## result.5025	2	9.745005e-01	2.006500e+00
## result.5026	3	9.747005e-01	9.747005e-01
## result.5027	3	9.749005e-01	9.749005e-01
## result.5028	3	9.751005e-01	9.751005e-01
## result.5029	3	9.753006e-01	9.753006e-01
## result.5030	3	9.755006e-01	9.755006e-01
## result.5031	3	9.757006e-01	9.757006e-01
## result.5032	3	9.759006e-01	9.759006e-01
## result.5033	3	9.761006e-01	9.761006e-01
## result.5034	3	9.763007e-01	9.763006e-01
## result.5035	3	9.765007e-01	9.765007e-01
## result.5036	3	9.767007e-01	9.767007e-01
## result.5037	3	9.769007e-01	9.769007e-01
## result.5038	3	9.771007e-01	9.771007e-01
## result.5039	3	9.773008e-01	9.773007e-01
## result.5040	3	9.775008e-01	9.775008e-01
## result.5041	3	9.777008e-01	9.777008e-01
## result.5042	3	9.779008e-01	9.779008e-01
## result.5043	3	9.781008e-01	9.781008e-01
## result.5044	3	9.783009e-01	9.783008e-01
## result.5045	3	9.785009e-01	9.785009e-01

## result.5046	3	9.787009e-01	9.787009e-01
## result.5047	3	9.789009e-01	9.789009e-01
## result.5048	3	9.791009e-01	9.791009e-01
## result.5049	3	9.793010e-01	9.793009e-01
## result.5050	3	9.795010e-01	9.795010e-01
## result.5051	3	9.797010e-01	9.797010e-01
## result.5052	3	9.799010e-01	9.799010e-01
## result.5053	3	9.801010e-01	9.801010e-01
## result.5054	3	9.803011e-01	9.803010e-01
## result.5055	3	9.805011e-01	9.805011e-01
## result.5056	3	9.807011e-01	9.807011e-01
## result.5057	3	9.809011e-01	9.809011e-01
## result.5058	3	9.811011e-01	9.811011e-01
## result.5059	3	9.813012e-01	9.813011e-01
## result.5060	3	9.815012e-01	9.815011e-01
## result.5061	3	9.817012e-01	9.817012e-01
## result.5062	3	9.819012e-01	9.819012e-01
## result.5063	3	9.821012e-01	9.821012e-01
## result.5064	3	9.823013e-01	9.823012e-01
## result.5065	3	9.825013e-01	9.825012e-01
## result.5066	3	9.827013e-01	9.827013e-01
## result.5067	3	9.829013e-01	9.829013e-01
## result.5068	3	9.831013e-01	9.831013e-01
## result.5069	3	9.833014e-01	9.833013e-01
## result.5070	3	9.835014e-01	9.835013e-01
## result.5071	3	9.837014e-01	9.837014e-01
## result.5072	3	9.839014e-01	9.839014e-01
## result.5073	3	9.841014e-01	9.841014e-01
## result.5074	3	9.843015e-01	9.843014e-01
## result.5075	3	9.845015e-01	9.845014e-01
## result.5076	3	9.847015e-01	9.847015e-01
## result.5077	3	9.849015e-01	9.849015e-01
## result.5078	3	9.851015e-01	9.851015e-01
## result.5079	3	9.853016e-01	9.853015e-01
## result.5080	3	9.855016e-01	9.855015e-01
## result.5081	3	9.857016e-01	9.857015e-01
## result.5082	3	9.859016e-01	9.859016e-01
## result.5083	3	9.861016e-01	9.861016e-01
## result.5084	3	9.863017e-01	9.863016e-01
## result.5085	3	9.865017e-01	9.865016e-01
## result.5086	3	9.867017e-01	9.867016e-01
## result.5087	3	9.869017e-01	9.869017e-01
## result.5088	3	9.871017e-01	9.871017e-01
## result.5089	3	9.873018e-01	9.873017e-01
## result.5090	3	9.875018e-01	9.875017e-01
## result.5091	3	9.877018e-01	9.877017e-01
## result.5092	3	9.879018e-01	9.879018e-01
## result.5093	3	9.881018e-01	9.881018e-01
## result.5094	3	9.883019e-01	9.883018e-01
## result.5095	3	9.885019e-01	9.885018e-01
## result.5096	3	9.887019e-01	9.887018e-01
## result.5097	3	9.889019e-01	9.889019e-01
## result.5098	3	9.891019e-01	9.891019e-01
## result.5099	3	9.893020e-01	9.893019e-01

## result.5100	3	9.895020e-01	9.895019e-01
## result.5101	3	9.897020e-01	9.897019e-01
## result.5102	3	9.899020e-01	9.899019e-01
## result.5103	3	9.901020e-01	9.901020e-01
## result.5104	3	9.903021e-01	9.903020e-01
## result.5105	3	9.905021e-01	9.905020e-01
## result.5106	3	9.907021e-01	9.907020e-01
## result.5107	3	9.909021e-01	9.909020e-01
## result.5108	3	9.911021e-01	9.911021e-01
## result.5109	3	9.913022e-01	9.913021e-01
## result.5110	3	9.915022e-01	9.915021e-01
## result.5111	3	9.917022e-01	9.917021e-01
## result.5112	3	9.919022e-01	9.919021e-01
## result.5113	3	9.921022e-01	9.921022e-01
## result.5114	3	9.923023e-01	9.923022e-01
## result.5115	3	9.925023e-01	9.925022e-01
## result.5116	3	9.927023e-01	9.927022e-01
## result.5117	3	9.929023e-01	9.929022e-01
## result.5118	3	9.931023e-01	9.931023e-01
## result.5119	3	9.933024e-01	9.933023e-01
## result.5120	3	9.935024e-01	9.935023e-01
## result.5121	3	9.937024e-01	9.937023e-01
## result.5122	3	9.939024e-01	9.939023e-01
## result.5123	3	9.941024e-01	9.941024e-01
## result.5124	3	9.943025e-01	9.943024e-01
## result.5125	3	9.945025e-01	9.945024e-01
## result.5126	3	9.947025e-01	9.947024e-01
## result.5127	3	9.949025e-01	9.949024e-01
## result.5128	3	9.951025e-01	9.951024e-01
## result.5129	3	9.953026e-01	9.953025e-01
## result.5130	3	9.955026e-01	9.955025e-01
## result.5131	3	9.957026e-01	9.957025e-01
## result.5132	3	9.959026e-01	9.959025e-01
## result.5133	3	9.961026e-01	9.961025e-01
## result.5134	3	9.963027e-01	9.963026e-01
## result.5135	3	9.965027e-01	9.965026e-01
## result.5136	3	9.967027e-01	9.967026e-01
## result.5137	3	9.969027e-01	9.969026e-01
## result.5138	3	9.971027e-01	9.971026e-01
## result.5139	3	9.973028e-01	9.973027e-01
## result.5140	3	9.975028e-01	9.975027e-01
## result.5141	3	9.977028e-01	9.977027e-01
## result.5142	3	9.979028e-01	9.979027e-01
## result.5143	3	9.981028e-01	9.981027e-01
## result.5144	3	9.983029e-01	9.983028e-01
## result.5145	3	9.985029e-01	9.985028e-01
## result.5146	3	9.987029e-01	9.987028e-01
## result.5147	3	9.989029e-01	9.989028e-01
## result.5148	3	9.991029e-01	9.991028e-01
## result.5149	3	9.993030e-01	9.993028e-01
## result.5150	3	9.995030e-01	9.995029e-01
## result.5151	3	9.997030e-01	9.997029e-01
## result.5152	3	9.999030e-01	9.999029e-01
## result.5153	3	1.000103e+00	1.000103e+00

## result.5154	3	1.000303e+00	1.000303e+00
## result.5155	3	1.000503e+00	1.000503e+00
## result.5156	3	1.000703e+00	1.000703e+00
## result.5157	3	1.000903e+00	1.000903e+00
## result.5158	3	1.001103e+00	1.001103e+00
## result.5159	3	1.001303e+00	1.001303e+00
## result.5160	3	1.001503e+00	1.001503e+00
## result.5161	3	1.001703e+00	1.001703e+00
## result.5162	3	1.001903e+00	1.001903e+00
## result.5163	3	1.002103e+00	1.002103e+00
## result.5164	3	1.002303e+00	1.002303e+00
## result.5165	3	1.002503e+00	1.002503e+00
## result.5166	3	1.002703e+00	1.002703e+00
## result.5167	3	1.002903e+00	1.002903e+00
## result.5168	3	1.003103e+00	1.003103e+00
## result.5169	3	1.003303e+00	1.003303e+00
## result.5170	3	1.003503e+00	1.003503e+00
## result.5171	3	1.003703e+00	1.003703e+00
## result.5172	3	1.003903e+00	1.003903e+00
## result.5173	3	1.004103e+00	1.004103e+00
## result.5174	3	1.004303e+00	1.004303e+00
## result.5175	3	1.004503e+00	1.004503e+00
## result.5176	3	1.004703e+00	1.004703e+00
## result.5177	3	1.004904e+00	1.004903e+00
## result.5178	3	1.005104e+00	1.005103e+00
## result.5179	3	1.005304e+00	1.005303e+00
## result.5180	3	1.005504e+00	1.005503e+00
## result.5181	3	1.005704e+00	1.005703e+00
## result.5182	3	1.005904e+00	1.005903e+00
## result.5183	3	1.006104e+00	1.006103e+00
## result.5184	3	1.006304e+00	1.006304e+00
## result.5185	3	1.006504e+00	1.006504e+00
## result.5186	3	1.006704e+00	1.006704e+00
## result.5187	3	1.006904e+00	1.006904e+00
## result.5188	3	1.007104e+00	1.007104e+00
## result.5189	3	1.007304e+00	1.007304e+00
## result.5190	3	1.007504e+00	1.007504e+00
## result.5191	3	1.007704e+00	1.007704e+00
## result.5192	3	1.007904e+00	1.007904e+00
## result.5193	3	1.008104e+00	1.008104e+00
## result.5194	3	1.008304e+00	1.008304e+00
## result.5195	3	1.008504e+00	1.008504e+00
## result.5196	3	1.008704e+00	1.008704e+00
## result.5197	3	1.008904e+00	1.008904e+00
## result.5198	3	1.009104e+00	1.009104e+00
## result.5199	3	1.009304e+00	1.009304e+00
## result.5200	3	1.009504e+00	1.009504e+00
## result.5201	3	1.009704e+00	1.009704e+00
## result.5202	3	1.009904e+00	1.009904e+00
## result.5203	3	1.010104e+00	1.010104e+00
## result.5204	3	1.010304e+00	1.010304e+00
## result.5205	3	1.010504e+00	1.010504e+00
## result.5206	3	1.010704e+00	1.010704e+00
## result.5207	3	1.010904e+00	1.010904e+00

## result.5208	3	1.011104e+00	1.011104e+00
## result.5209	3	1.011304e+00	1.011304e+00
## result.5210	3	1.011504e+00	1.011504e+00
## result.5211	3	1.011704e+00	1.011704e+00
## result.5212	3	1.011904e+00	1.011904e+00
## result.5213	3	1.012104e+00	1.012104e+00
## result.5214	3	1.012304e+00	1.012304e+00
## result.5215	3	1.012504e+00	1.012504e+00
## result.5216	3	1.012704e+00	1.012704e+00
## result.5217	3	1.012904e+00	1.012904e+00
## result.5218	3	1.013104e+00	1.013104e+00
## result.5219	3	1.013304e+00	1.013304e+00
## result.5220	3	1.013504e+00	1.013504e+00
## result.5221	3	1.013704e+00	1.013704e+00
## result.5222	3	1.013904e+00	1.013904e+00
## result.5223	3	1.014104e+00	1.014104e+00
## result.5224	3	1.014304e+00	1.014304e+00
## result.5225	3	1.014504e+00	1.014504e+00
## result.5226	3	1.014704e+00	1.014704e+00
## result.5227	3	1.014905e+00	1.014904e+00
## result.5228	3	1.015105e+00	1.015104e+00
## result.5229	3	1.015305e+00	1.015304e+00
## result.5230	3	1.015505e+00	1.015504e+00
## result.5231	3	1.015705e+00	1.015704e+00
## result.5232	3	1.015905e+00	1.015904e+00
## result.5233	3	1.016105e+00	1.016104e+00
## result.5234	3	1.016305e+00	1.016304e+00
## result.5235	3	1.016505e+00	1.016504e+00
## result.5236	3	1.016705e+00	1.016705e+00
## result.5237	3	1.016905e+00	1.016905e+00
## result.5238	3	1.017105e+00	1.017105e+00
## result.5239	3	1.017305e+00	1.017305e+00
## result.5240	3	1.017505e+00	1.017505e+00
## result.5241	3	1.017705e+00	1.017705e+00
## result.5242	3	1.017905e+00	1.017905e+00
## result.5243	3	1.018105e+00	1.018105e+00
## result.5244	3	1.018305e+00	1.018305e+00
## result.5245	3	1.018505e+00	1.018505e+00
## result.5246	3	1.018705e+00	1.018705e+00
## result.5247	3	1.018905e+00	1.018905e+00
## result.5248	3	1.019105e+00	1.019105e+00
## result.5249	3	1.019305e+00	1.019305e+00
## result.5250	3	1.019505e+00	1.019505e+00
## result.5251	3	1.019705e+00	1.019705e+00
## result.5252	3	1.019905e+00	1.019905e+00
## result.5253	3	1.020105e+00	1.020105e+00
## result.5254	3	1.020305e+00	1.020305e+00
## result.5255	3	1.020505e+00	1.020505e+00
## result.5256	3	1.020705e+00	1.020705e+00
## result.5257	3	1.020905e+00	1.020905e+00
## result.5258	3	1.021105e+00	1.021105e+00
## result.5259	3	1.021305e+00	1.021305e+00
## result.5260	3	1.021505e+00	1.021505e+00
## result.5261	3	1.021705e+00	1.021705e+00

## result.5262	3	1.021905e+00	1.021905e+00
## result.5263	3	1.022105e+00	1.022105e+00
## result.5264	3	1.022305e+00	1.022305e+00
## result.5265	3	1.022505e+00	1.022505e+00
## result.5266	3	1.022705e+00	1.022705e+00
## result.5267	3	1.022905e+00	1.022905e+00
## result.5268	3	1.023105e+00	1.023105e+00
## result.5269	3	1.023305e+00	1.023305e+00
## result.5270	3	1.023505e+00	1.023505e+00
## result.5271	3	1.023705e+00	1.023705e+00
## result.5272	3	1.023905e+00	1.023905e+00
## result.5273	3	1.024105e+00	1.024105e+00
## result.5274	3	1.024305e+00	1.024305e+00
## result.5275	3	1.024505e+00	1.024505e+00
## result.5276	3	1.024705e+00	1.024705e+00
## result.5277	3	1.024905e+00	1.024905e+00
## result.5278	3	1.025106e+00	1.025105e+00
## result.5279	3	1.025306e+00	1.025305e+00
## result.5280	3	1.025506e+00	1.025505e+00
## result.5281	3	1.025706e+00	1.025705e+00
## result.5282	3	1.025906e+00	1.025905e+00
## result.5283	3	1.026106e+00	1.026105e+00
## result.5284	3	1.026306e+00	1.026305e+00
## result.5285	3	1.026506e+00	1.026505e+00
## result.5286	3	1.026706e+00	1.026705e+00
## result.5287	3	1.026906e+00	1.026905e+00
## result.5288	3	1.027106e+00	1.027106e+00
## result.5289	3	1.027306e+00	1.027306e+00
## result.5290	3	1.027506e+00	1.027506e+00
## result.5291	3	1.027706e+00	1.027706e+00
## result.5292	3	1.027906e+00	1.027906e+00
## result.5293	3	1.028106e+00	1.028106e+00
## result.5294	3	1.028306e+00	1.028306e+00
## result.5295	3	1.028506e+00	1.028506e+00
## result.5296	3	1.028706e+00	1.028706e+00
## result.5297	3	1.028906e+00	1.028906e+00
## result.5298	3	1.029106e+00	1.029106e+00
## result.5299	3	1.029306e+00	1.029306e+00
## result.5300	3	1.029506e+00	1.029506e+00
## result.5301	3	1.029706e+00	1.029706e+00
## result.5302	3	1.029906e+00	1.029906e+00
## result.5303	3	1.030106e+00	1.030106e+00
## result.5304	3	1.030306e+00	1.030306e+00
## result.5305	3	1.030506e+00	1.030506e+00
## result.5306	3	1.030706e+00	1.030706e+00
## result.5307	3	1.030906e+00	1.030906e+00
## result.5308	3	1.031106e+00	1.031106e+00
## result.5309	3	1.031306e+00	1.031306e+00
## result.5310	3	1.031506e+00	1.031506e+00
## result.5311	3	1.031706e+00	1.031706e+00
## result.5312	3	1.031906e+00	1.031906e+00
## result.5313	3	1.032106e+00	1.032106e+00
## result.5314	3	1.032306e+00	1.032306e+00
## result.5315	3	1.032506e+00	1.032506e+00

## result.5316	3	1.032706e+00	1.032706e+00
## result.5317	3	1.032906e+00	1.032906e+00
## result.5318	3	1.033106e+00	1.033106e+00
## result.5319	3	1.033306e+00	1.033306e+00
## result.5320	3	1.033506e+00	1.033506e+00
## result.5321	3	1.033706e+00	1.033706e+00
## result.5322	3	1.033906e+00	1.033906e+00
## result.5323	3	1.034106e+00	1.034106e+00
## result.5324	3	1.034306e+00	1.034306e+00
## result.5325	3	1.034506e+00	1.034506e+00
## result.5326	3	1.034706e+00	1.034706e+00
## result.5327	3	1.034906e+00	1.034906e+00
## result.5328	3	1.035107e+00	1.035106e+00
## result.5329	3	1.035307e+00	1.035306e+00
## result.5330	3	1.035507e+00	1.035506e+00
## result.5331	3	1.035707e+00	1.035706e+00
## result.5332	3	1.035907e+00	1.035906e+00
## result.5333	3	1.036107e+00	1.036106e+00
## result.5334	3	1.036307e+00	1.036306e+00
## result.5335	3	1.036507e+00	1.036506e+00
## result.5336	3	1.036707e+00	1.036706e+00
## result.5337	3	1.036907e+00	1.036906e+00
## result.5338	3	1.037107e+00	1.037106e+00
## result.5339	3	1.037307e+00	1.037306e+00
## result.5340	3	1.037507e+00	1.037507e+00
## result.5341	3	1.037707e+00	1.037707e+00
## result.5342	3	1.037907e+00	1.037907e+00
## result.5343	3	1.038107e+00	1.038107e+00
## result.5344	3	1.038307e+00	1.038307e+00
## result.5345	3	1.038507e+00	1.038507e+00
## result.5346	3	1.038707e+00	1.038707e+00
## result.5347	3	1.038907e+00	1.038907e+00
## result.5348	3	1.039107e+00	1.039107e+00
## result.5349	3	1.039307e+00	1.039307e+00
## result.5350	3	1.039507e+00	1.039507e+00
## result.5351	3	1.039707e+00	1.039707e+00
## result.5352	3	1.039907e+00	1.039907e+00
## result.5353	3	1.040107e+00	1.040107e+00
## result.5354	3	1.040307e+00	1.040307e+00
## result.5355	3	1.040507e+00	1.040507e+00
## result.5356	3	1.040707e+00	1.040707e+00
## result.5357	3	1.040907e+00	1.040907e+00
## result.5358	3	1.041107e+00	1.041107e+00
## result.5359	3	1.041307e+00	1.041307e+00
## result.5360	3	1.041507e+00	1.041507e+00
## result.5361	3	1.041707e+00	1.041707e+00
## result.5362	3	1.041907e+00	1.041907e+00
## result.5363	3	1.042107e+00	1.042107e+00
## result.5364	3	1.042307e+00	1.042307e+00
## result.5365	3	1.042507e+00	1.042507e+00
## result.5366	3	1.042707e+00	1.042707e+00
## result.5367	3	1.042907e+00	1.042907e+00
## result.5368	3	1.043107e+00	1.043107e+00
## result.5369	3	1.043307e+00	1.043307e+00

## result.5370	3	1.043507e+00	1.043507e+00
## result.5371	3	1.043707e+00	1.043707e+00
## result.5372	3	1.043907e+00	1.043907e+00
## result.5373	3	1.044107e+00	1.044107e+00
## result.5374	3	1.044307e+00	1.044307e+00
## result.5375	3	1.044507e+00	1.044507e+00
## result.5376	3	1.044707e+00	1.044707e+00
## result.5377	3	1.044907e+00	1.044907e+00
## result.5378	3	1.045108e+00	1.045107e+00
## result.5379	3	1.045308e+00	1.045307e+00
## result.5380	3	1.045508e+00	1.045507e+00
## result.5381	3	1.045708e+00	1.045707e+00
## result.5382	3	1.045908e+00	1.045907e+00
## result.5383	3	1.046108e+00	1.046107e+00
## result.5384	3	1.046308e+00	1.046307e+00
## result.5385	3	1.046508e+00	1.046507e+00
## result.5386	3	1.046708e+00	1.046707e+00
## result.5387	3	1.046908e+00	1.046907e+00
## result.5388	3	1.047108e+00	1.047107e+00
## result.5389	3	1.047308e+00	1.047307e+00
## result.5390	3	1.047508e+00	1.047507e+00
## result.5391	3	1.047708e+00	1.047707e+00
## result.5392	3	1.047908e+00	1.047907e+00
## result.5393	3	1.048108e+00	1.048108e+00
## result.5394	3	1.048308e+00	1.048308e+00
## result.5395	3	1.048508e+00	1.048508e+00
## result.5396	3	1.048708e+00	1.048708e+00
## result.5397	3	1.048908e+00	1.048908e+00
## result.5398	3	1.049108e+00	1.049108e+00
## result.5399	3	1.049308e+00	1.049308e+00
## result.5400	3	1.049508e+00	1.049508e+00
## result.5401	3	1.049708e+00	1.049708e+00
## result.5402	3	1.049908e+00	1.049908e+00
## result.5403	3	1.050108e+00	1.050108e+00
## result.5404	3	1.050308e+00	1.050308e+00
## result.5405	3	1.050508e+00	1.050508e+00
## result.5406	3	1.050708e+00	1.050708e+00
## result.5407	3	1.050908e+00	1.050908e+00
## result.5408	3	1.051108e+00	1.051108e+00
## result.5409	3	1.051308e+00	1.051308e+00
## result.5410	3	1.051508e+00	1.051508e+00
## result.5411	3	1.051708e+00	1.051708e+00
## result.5412	3	1.051908e+00	1.051908e+00
## result.5413	3	1.052108e+00	1.052108e+00
## result.5414	3	1.052308e+00	1.052308e+00
## result.5415	3	1.052508e+00	1.052508e+00
## result.5416	3	1.052708e+00	1.052708e+00
## result.5417	3	1.052908e+00	1.052908e+00
## result.5418	3	1.053108e+00	1.053108e+00
## result.5419	3	1.053308e+00	1.053308e+00
## result.5420	3	1.053508e+00	1.053508e+00
## result.5421	3	1.053708e+00	1.053708e+00
## result.5422	3	1.053908e+00	1.053908e+00
## result.5423	3	1.054108e+00	1.054108e+00

## result.5424	3	1.054308e+00	1.054308e+00
## result.5425	3	1.054508e+00	1.054508e+00
## result.5426	3	1.054708e+00	1.054708e+00
## result.5427	3	1.054908e+00	1.054908e+00
## result.5428	3	1.055108e+00	1.055108e+00
## result.5429	3	1.055309e+00	1.055308e+00
## result.5430	3	1.055509e+00	1.055508e+00
## result.5431	3	1.055709e+00	1.055708e+00
## result.5432	3	1.055909e+00	1.055908e+00
## result.5433	3	1.056109e+00	1.056108e+00
## result.5434	3	1.056309e+00	1.056308e+00
## result.5435	3	1.056509e+00	1.056508e+00
## result.5436	3	1.056709e+00	1.056708e+00
## result.5437	3	1.056909e+00	1.056908e+00
## result.5438	3	1.057109e+00	1.057108e+00
## result.5439	3	1.057309e+00	1.057308e+00
## result.5440	3	1.057509e+00	1.057508e+00
## result.5441	3	1.057709e+00	1.057708e+00
## result.5442	3	1.057909e+00	1.057908e+00
## result.5443	3	1.058109e+00	1.058108e+00
## result.5444	3	1.058309e+00	1.058308e+00
## result.5445	3	1.058509e+00	1.058509e+00
## result.5446	3	1.058709e+00	1.058709e+00
## result.5447	3	1.058909e+00	1.058909e+00
## result.5448	3	1.059109e+00	1.059109e+00
## result.5449	3	1.059309e+00	1.059309e+00
## result.5450	3	1.059509e+00	1.059509e+00
## result.5451	3	1.059709e+00	1.059709e+00
## result.5452	3	1.059909e+00	1.059909e+00
## result.5453	3	1.060109e+00	1.060109e+00
## result.5454	3	1.060309e+00	1.060309e+00
## result.5455	3	1.060509e+00	1.060509e+00
## result.5456	3	1.060709e+00	1.060709e+00
## result.5457	3	1.060909e+00	1.060909e+00
## result.5458	3	1.061109e+00	1.061109e+00
## result.5459	3	1.061309e+00	1.061309e+00
## result.5460	3	1.061509e+00	1.061509e+00
## result.5461	3	1.061709e+00	1.061709e+00
## result.5462	3	1.061909e+00	1.061909e+00
## result.5463	3	1.062109e+00	1.062109e+00
## result.5464	3	1.062309e+00	1.062309e+00
## result.5465	3	1.062509e+00	1.062509e+00
## result.5466	3	1.062709e+00	1.062709e+00
## result.5467	3	1.062909e+00	1.062909e+00
## result.5468	3	1.063109e+00	1.063109e+00
## result.5469	3	1.063309e+00	1.063309e+00
## result.5470	3	1.063509e+00	1.063509e+00
## result.5471	3	1.063709e+00	1.063709e+00
## result.5472	3	1.063909e+00	1.063909e+00
## result.5473	3	1.064109e+00	1.064109e+00
## result.5474	3	1.064309e+00	1.064309e+00
## result.5475	3	1.064509e+00	1.064509e+00
## result.5476	3	1.064709e+00	1.064709e+00
## result.5477	3	1.064909e+00	1.064909e+00

## result.5478	3	1.065109e+00	1.065109e+00
## result.5479	3	1.065310e+00	1.065309e+00
## result.5480	3	1.065510e+00	1.065509e+00
## result.5481	3	1.065710e+00	1.065709e+00
## result.5482	3	1.065910e+00	1.065909e+00
## result.5483	3	1.066110e+00	1.066109e+00
## result.5484	3	1.066310e+00	1.066309e+00
## result.5485	3	1.066510e+00	1.066509e+00
## result.5486	3	1.066710e+00	1.066709e+00
## result.5487	3	1.066910e+00	1.066909e+00
## result.5488	3	1.067110e+00	1.067109e+00
## result.5489	3	1.067310e+00	1.067309e+00
## result.5490	3	1.067510e+00	1.067509e+00
## result.5491	3	1.067710e+00	1.067709e+00
## result.5492	3	1.067910e+00	1.067909e+00
## result.5493	3	1.068110e+00	1.068109e+00
## result.5494	3	1.068310e+00	1.068309e+00
## result.5495	3	1.068510e+00	1.068509e+00
## result.5496	3	1.068710e+00	1.068709e+00
## result.5497	3	1.068910e+00	1.068910e+00
## result.5498	3	1.069110e+00	1.069110e+00
## result.5499	3	1.069310e+00	1.069310e+00
## result.5500	3	1.069510e+00	1.069510e+00
## result.5501	3	1.069710e+00	1.069710e+00
## result.5502	3	1.069910e+00	1.069910e+00
## result.5503	3	1.070110e+00	1.070110e+00
## result.5504	3	1.070310e+00	1.070310e+00
## result.5505	3	1.070510e+00	1.070510e+00
## result.5506	3	1.070710e+00	1.070710e+00
## result.5507	3	1.070910e+00	1.070910e+00
## result.5508	3	1.071110e+00	1.071110e+00
## result.5509	3	1.071310e+00	1.071310e+00
## result.5510	3	1.071510e+00	1.071510e+00
## result.5511	3	1.071710e+00	1.071710e+00
## result.5512	3	1.071910e+00	1.071910e+00
## result.5513	3	1.072110e+00	1.072110e+00
## result.5514	3	1.072310e+00	1.072310e+00
## result.5515	3	1.072510e+00	1.072510e+00
## result.5516	3	1.072710e+00	1.072710e+00
## result.5517	3	1.072910e+00	1.072910e+00
## result.5518	3	1.073110e+00	1.073110e+00
## result.5519	3	1.073310e+00	1.073310e+00
## result.5520	3	1.073510e+00	1.073510e+00
## result.5521	3	1.073710e+00	1.073710e+00
## result.5522	3	1.073910e+00	1.073910e+00
## result.5523	3	1.074110e+00	1.074110e+00
## result.5524	3	1.074310e+00	1.074310e+00
## result.5525	3	1.074510e+00	1.074510e+00
## result.5526	3	1.074710e+00	1.074710e+00
## result.5527	3	1.074910e+00	1.074910e+00
## result.5528	3	1.075110e+00	1.075110e+00
## result.5529	3	1.075311e+00	1.075310e+00
## result.5530	3	1.075511e+00	1.075510e+00
## result.5531	3	1.075711e+00	1.075710e+00

## result.5532	3	1.075911e+00	1.075910e+00
## result.5533	3	1.076111e+00	1.076110e+00
## result.5534	3	1.076311e+00	1.076310e+00
## result.5535	3	1.076511e+00	1.076510e+00
## result.5536	3	1.076711e+00	1.076710e+00
## result.5537	3	1.076911e+00	1.076910e+00
## result.5538	3	1.077111e+00	1.077110e+00
## result.5539	3	1.077311e+00	1.077310e+00
## result.5540	3	1.077511e+00	1.077510e+00
## result.5541	3	1.077711e+00	1.077710e+00
## result.5542	3	1.077911e+00	1.077910e+00
## result.5543	3	1.078111e+00	1.078110e+00
## result.5544	3	1.078311e+00	1.078310e+00
## result.5545	3	1.078511e+00	1.078510e+00
## result.5546	3	1.078711e+00	1.078710e+00
## result.5547	3	1.078911e+00	1.078910e+00
## result.5548	3	1.079111e+00	1.079110e+00
## result.5549	3	1.079311e+00	1.079310e+00
## result.5550	3	1.079511e+00	1.079511e+00
## result.5551	3	1.079711e+00	1.079711e+00
## result.5552	3	1.079911e+00	1.079911e+00
## result.5553	3	1.080111e+00	1.080111e+00
## result.5554	3	1.080311e+00	1.080311e+00
## result.5555	3	1.080511e+00	1.080511e+00
## result.5556	3	1.080711e+00	1.080711e+00
## result.5557	3	1.080911e+00	1.080911e+00
## result.5558	3	1.081111e+00	1.081111e+00
## result.5559	3	1.081311e+00	1.081311e+00
## result.5560	3	1.081511e+00	1.081511e+00
## result.5561	3	1.081711e+00	1.081711e+00
## result.5562	3	1.081911e+00	1.081911e+00
## result.5563	3	1.082111e+00	1.082111e+00
## result.5564	3	1.082311e+00	1.082311e+00
## result.5565	3	1.082511e+00	1.082511e+00
## result.5566	3	1.082711e+00	1.082711e+00
## result.5567	3	1.082911e+00	1.082911e+00
## result.5568	3	1.083111e+00	1.083111e+00
## result.5569	3	1.083311e+00	1.083311e+00
## result.5570	3	1.083511e+00	1.083511e+00
## result.5571	3	1.083711e+00	1.083711e+00
## result.5572	3	1.083911e+00	1.083911e+00
## result.5573	3	1.084111e+00	1.084111e+00
## result.5574	3	1.084311e+00	1.084311e+00
## result.5575	3	1.084511e+00	1.084511e+00
## result.5576	3	1.084711e+00	1.084711e+00
## result.5577	3	1.084911e+00	1.084911e+00
## result.5578	3	1.085111e+00	1.085111e+00
## result.5579	3	1.085311e+00	1.085311e+00
## result.5580	3	1.085512e+00	1.085511e+00
## result.5581	3	1.085712e+00	1.085711e+00
## result.5582	3	1.085912e+00	1.085911e+00
## result.5583	3	1.086112e+00	1.086111e+00
## result.5584	3	1.086312e+00	1.086311e+00
## result.5585	3	1.086512e+00	1.086511e+00

## result.5586	3	1.086712e+00	1.086711e+00
## result.5587	3	1.086912e+00	1.086911e+00
## result.5588	3	1.087112e+00	1.087111e+00
## result.5589	3	1.087312e+00	1.087311e+00
## result.5590	3	1.087512e+00	1.087511e+00
## result.5591	3	1.087712e+00	1.087711e+00
## result.5592	3	1.087912e+00	1.087911e+00
## result.5593	3	1.088112e+00	1.088111e+00
## result.5594	3	1.088312e+00	1.088311e+00
## result.5595	3	1.088512e+00	1.088511e+00
## result.5596	3	1.088712e+00	1.088711e+00
## result.5597	3	1.088912e+00	1.088911e+00
## result.5598	3	1.089112e+00	1.089111e+00
## result.5599	3	1.089312e+00	1.089311e+00
## result.5600	3	1.089512e+00	1.089511e+00
## result.5601	3	1.089712e+00	1.089711e+00
## result.5602	3	1.089912e+00	1.089912e+00
## result.5603	3	1.090112e+00	1.090112e+00
## result.5604	3	1.090312e+00	1.090312e+00
## result.5605	3	1.090512e+00	1.090512e+00
## result.5606	3	1.090712e+00	1.090712e+00
## result.5607	3	1.090912e+00	1.090912e+00
## result.5608	3	1.091112e+00	1.091112e+00
## result.5609	3	1.091312e+00	1.091312e+00
## result.5610	3	1.091512e+00	1.091512e+00
## result.5611	3	1.091712e+00	1.091712e+00
## result.5612	3	1.091912e+00	1.091912e+00
## result.5613	3	1.092112e+00	1.092112e+00
## result.5614	3	1.092312e+00	1.092312e+00
## result.5615	3	1.092512e+00	1.092512e+00
## result.5616	3	1.092712e+00	1.092712e+00
## result.5617	3	1.092912e+00	1.092912e+00
## result.5618	3	1.093112e+00	1.093112e+00
## result.5619	3	1.093312e+00	1.093312e+00
## result.5620	3	1.093512e+00	1.093512e+00
## result.5621	3	1.093712e+00	1.093712e+00
## result.5622	3	1.093912e+00	1.093912e+00
## result.5623	3	1.094112e+00	1.094112e+00
## result.5624	3	1.094312e+00	1.094312e+00
## result.5625	3	1.094512e+00	1.094512e+00
## result.5626	3	1.094712e+00	1.094712e+00
## result.5627	3	1.094912e+00	1.094912e+00
## result.5628	3	1.095112e+00	1.095112e+00
## result.5629	3	1.095312e+00	1.095312e+00
## result.5630	3	1.095513e+00	1.095512e+00
## result.5631	3	1.095713e+00	1.095712e+00
## result.5632	3	1.095913e+00	1.095912e+00
## result.5633	3	1.096113e+00	1.096112e+00
## result.5634	3	1.096313e+00	1.096312e+00
## result.5635	3	1.096513e+00	1.096512e+00
## result.5636	3	1.096713e+00	1.096712e+00
## result.5637	3	1.096913e+00	1.096912e+00
## result.5638	3	1.097113e+00	1.097112e+00
## result.5639	3	1.097313e+00	1.097312e+00

## result.5640	3	1.097513e+00	1.097512e+00
## result.5641	3	1.097713e+00	1.097712e+00
## result.5642	3	1.097913e+00	1.097912e+00
## result.5643	3	1.098113e+00	1.098112e+00
## result.5644	3	1.098313e+00	1.098312e+00
## result.5645	3	1.098513e+00	1.098512e+00
## result.5646	3	1.098713e+00	1.098712e+00
## result.5647	3	1.098913e+00	1.098912e+00
## result.5648	3	1.099113e+00	1.099112e+00
## result.5649	3	1.099313e+00	1.099312e+00
## result.5650	3	1.099513e+00	1.099512e+00
## result.5651	3	1.099713e+00	1.099712e+00
## result.5652	3	1.099913e+00	1.099912e+00
## result.5653	3	1.100113e+00	1.100112e+00
## result.5654	3	1.100313e+00	1.100313e+00
## result.5655	3	1.100513e+00	1.100513e+00
## result.5656	3	1.100713e+00	1.100713e+00
## result.5657	3	1.100913e+00	1.100913e+00
## result.5658	3	1.101113e+00	1.101113e+00
## result.5659	3	1.101313e+00	1.101313e+00
## result.5660	3	1.101513e+00	1.101513e+00
## result.5661	3	1.101713e+00	1.101713e+00
## result.5662	3	1.101913e+00	1.101913e+00
## result.5663	3	1.102113e+00	1.102113e+00
## result.5664	3	1.102313e+00	1.102313e+00
## result.5665	3	1.102513e+00	1.102513e+00
## result.5666	3	1.102713e+00	1.102713e+00
## result.5667	3	1.102913e+00	1.102913e+00
## result.5668	3	1.103113e+00	1.103113e+00
## result.5669	3	1.103313e+00	1.103313e+00
## result.5670	3	1.103513e+00	1.103513e+00
## result.5671	3	1.103713e+00	1.103713e+00
## result.5672	3	1.103913e+00	1.103913e+00
## result.5673	3	1.104113e+00	1.104113e+00
## result.5674	3	1.104313e+00	1.104313e+00
## result.5675	3	1.104513e+00	1.104513e+00
## result.5676	3	1.104713e+00	1.104713e+00
## result.5677	3	1.104913e+00	1.104913e+00
## result.5678	3	1.105113e+00	1.105113e+00
## result.5679	3	1.105313e+00	1.105313e+00
## result.5680	3	1.105514e+00	1.105513e+00
## result.5681	3	1.105714e+00	1.105713e+00
## result.5682	3	1.105914e+00	1.105913e+00
## result.5683	3	1.106114e+00	1.106113e+00
## result.5684	3	1.106314e+00	1.106313e+00
## result.5685	3	1.106514e+00	1.106513e+00
## result.5686	3	1.106714e+00	1.106713e+00
## result.5687	3	1.106914e+00	1.106913e+00
## result.5688	3	1.107114e+00	1.107113e+00
## result.5689	3	1.107314e+00	1.107313e+00
## result.5690	3	1.107514e+00	1.107513e+00
## result.5691	3	1.107714e+00	1.107713e+00
## result.5692	3	1.107914e+00	1.107913e+00
## result.5693	3	1.108114e+00	1.108113e+00

## result.5694	3	1.108314e+00	1.108313e+00
## result.5695	3	1.108514e+00	1.108513e+00
## result.5696	3	1.108714e+00	1.108713e+00
## result.5697	3	1.108914e+00	1.108913e+00
## result.5698	3	1.109114e+00	1.109113e+00
## result.5699	3	1.109314e+00	1.109313e+00
## result.5700	3	1.109514e+00	1.109513e+00
## result.5701	3	1.109714e+00	1.109713e+00
## result.5702	3	1.109914e+00	1.109913e+00
## result.5703	3	1.110114e+00	1.110113e+00
## result.5704	3	1.110314e+00	1.110313e+00
## result.5705	3	1.110514e+00	1.110513e+00
## result.5706	3	1.110714e+00	1.110713e+00
## result.5707	3	1.110914e+00	1.110914e+00
## result.5708	3	1.111114e+00	1.111114e+00
## result.5709	3	1.111314e+00	1.111314e+00
## result.5710	3	1.111514e+00	1.111514e+00
## result.5711	3	1.111714e+00	1.111714e+00
## result.5712	3	1.111914e+00	1.111914e+00
## result.5713	3	1.112114e+00	1.112114e+00
## result.5714	3	1.112314e+00	1.112314e+00
## result.5715	3	1.112514e+00	1.112514e+00
## result.5716	3	1.112714e+00	1.112714e+00
## result.5717	3	1.112914e+00	1.112914e+00
## result.5718	3	1.113114e+00	1.113114e+00
## result.5719	3	1.113314e+00	1.113314e+00
## result.5720	3	1.113514e+00	1.113514e+00
## result.5721	3	1.113714e+00	1.113714e+00
## result.5722	3	1.113914e+00	1.113914e+00
## result.5723	3	1.114114e+00	1.114114e+00
## result.5724	3	1.114314e+00	1.114314e+00
## result.5725	3	1.114514e+00	1.114514e+00
## result.5726	3	1.114714e+00	1.114714e+00
## result.5727	3	1.114914e+00	1.114914e+00
## result.5728	3	1.115114e+00	1.115114e+00
## result.5729	3	1.115314e+00	1.115314e+00
## result.5730	3	1.115514e+00	1.115514e+00
## result.5731	3	1.115715e+00	1.115714e+00
## result.5732	3	1.115915e+00	1.115914e+00
## result.5733	3	1.116115e+00	1.116114e+00
## result.5734	3	1.116315e+00	1.116314e+00
## result.5735	3	1.116515e+00	1.116514e+00
## result.5736	3	1.116715e+00	1.116714e+00
## result.5737	3	1.116915e+00	1.116914e+00
## result.5738	3	1.117115e+00	1.117114e+00
## result.5739	3	1.117315e+00	1.117314e+00
## result.5740	3	1.117515e+00	1.117514e+00
## result.5741	3	1.117715e+00	1.117714e+00
## result.5742	3	1.117915e+00	1.117914e+00
## result.5743	3	1.118115e+00	1.118114e+00
## result.5744	3	1.118315e+00	1.118314e+00
## result.5745	3	1.118515e+00	1.118514e+00
## result.5746	3	1.118715e+00	1.118714e+00
## result.5747	3	1.118915e+00	1.118914e+00

## result.5748	3	1.119115e+00	1.119114e+00
## result.5749	3	1.119315e+00	1.119314e+00
## result.5750	3	1.119515e+00	1.119514e+00
## result.5751	3	1.119715e+00	1.119714e+00
## result.5752	3	1.119915e+00	1.119914e+00
## result.5753	3	1.120115e+00	1.120114e+00
## result.5754	3	1.120315e+00	1.120314e+00
## result.5755	3	1.120515e+00	1.120514e+00
## result.5756	3	1.120715e+00	1.120714e+00
## result.5757	3	1.120915e+00	1.120914e+00
## result.5758	3	1.121115e+00	1.121114e+00
## result.5759	3	1.121315e+00	1.121315e+00
## result.5760	3	1.121515e+00	1.121515e+00
## result.5761	3	1.121715e+00	1.121715e+00
## result.5762	3	1.121915e+00	1.121915e+00
## result.5763	3	1.122115e+00	1.122115e+00
## result.5764	3	1.122315e+00	1.122315e+00
## result.5765	3	1.122515e+00	1.122515e+00
## result.5766	3	1.122715e+00	1.122715e+00
## result.5767	3	1.122915e+00	1.122915e+00
## result.5768	3	1.123115e+00	1.123115e+00
## result.5769	3	1.123315e+00	1.123315e+00
## result.5770	3	1.123515e+00	1.123515e+00
## result.5771	3	1.123715e+00	1.123715e+00
## result.5772	3	1.123915e+00	1.123915e+00
## result.5773	3	1.124115e+00	1.124115e+00
## result.5774	3	1.124315e+00	1.124315e+00
## result.5775	3	1.124515e+00	1.124515e+00
## result.5776	3	1.124715e+00	1.124715e+00
## result.5777	3	1.124915e+00	1.124915e+00
## result.5778	3	1.125115e+00	1.125115e+00
## result.5779	3	1.125315e+00	1.125315e+00
## result.5780	3	1.125515e+00	1.125515e+00
## result.5781	3	1.125716e+00	1.125715e+00
## result.5782	3	1.125916e+00	1.125915e+00
## result.5783	3	1.126116e+00	1.126115e+00
## result.5784	3	1.126316e+00	1.126315e+00
## result.5785	3	1.126516e+00	1.126515e+00
## result.5786	3	1.126716e+00	1.126715e+00
## result.5787	3	1.126916e+00	1.126915e+00
## result.5788	3	1.127116e+00	1.127115e+00
## result.5789	3	1.127316e+00	1.127315e+00
## result.5790	3	1.127516e+00	1.127515e+00
## result.5791	3	1.127716e+00	1.127715e+00
## result.5792	3	1.127916e+00	1.127915e+00
## result.5793	3	1.128116e+00	1.128115e+00
## result.5794	3	1.128316e+00	1.128315e+00
## result.5795	3	1.128516e+00	1.128515e+00
## result.5796	3	1.128716e+00	1.128715e+00
## result.5797	3	1.128916e+00	1.128915e+00
## result.5798	3	1.129116e+00	1.129115e+00
## result.5799	3	1.129316e+00	1.129315e+00
## result.5800	3	1.129516e+00	1.129515e+00
## result.5801	3	1.129716e+00	1.129715e+00

## result.5802	3	1.129916e+00	1.129915e+00
## result.5803	3	1.130116e+00	1.130115e+00
## result.5804	3	1.130316e+00	1.130315e+00
## result.5805	3	1.130516e+00	1.130515e+00
## result.5806	3	1.130716e+00	1.130715e+00
## result.5807	3	1.130916e+00	1.130915e+00
## result.5808	3	1.131116e+00	1.131115e+00
## result.5809	3	1.131316e+00	1.131315e+00
## result.5810	3	1.131516e+00	1.131515e+00
## result.5811	3	1.131716e+00	1.131716e+00
## result.5812	3	1.131916e+00	1.131916e+00
## result.5813	3	1.132116e+00	1.132116e+00
## result.5814	3	1.132316e+00	1.132316e+00
## result.5815	3	1.132516e+00	1.132516e+00
## result.5816	3	1.132716e+00	1.132716e+00
## result.5817	3	1.132916e+00	1.132916e+00
## result.5818	3	1.133116e+00	1.133116e+00
## result.5819	3	1.133316e+00	1.133316e+00
## result.5820	3	1.133516e+00	1.133516e+00
## result.5821	3	1.133716e+00	1.133716e+00
## result.5822	3	1.133916e+00	1.133916e+00
## result.5823	3	1.134116e+00	1.134116e+00
## result.5824	3	1.134316e+00	1.134316e+00
## result.5825	3	1.134516e+00	1.134516e+00
## result.5826	3	1.134716e+00	1.134716e+00
## result.5827	3	1.134916e+00	1.134916e+00
## result.5828	3	1.135116e+00	1.135116e+00
## result.5829	3	1.135316e+00	1.135316e+00
## result.5830	3	1.135516e+00	1.135516e+00
## result.5831	3	1.135717e+00	1.135716e+00
## result.5832	3	1.135917e+00	1.135916e+00
## result.5833	3	1.136117e+00	1.136116e+00
## result.5834	3	1.136317e+00	1.136316e+00
## result.5835	3	1.136517e+00	1.136516e+00
## result.5836	3	1.136717e+00	1.136716e+00
## result.5837	3	1.136917e+00	1.136916e+00
## result.5838	3	1.137117e+00	1.137116e+00
## result.5839	3	1.137317e+00	1.137316e+00
## result.5840	3	1.137517e+00	1.137516e+00
## result.5841	3	1.137717e+00	1.137716e+00
## result.5842	3	1.137917e+00	1.137916e+00
## result.5843	3	1.138117e+00	1.138116e+00
## result.5844	3	1.138317e+00	1.138316e+00
## result.5845	3	1.138517e+00	1.138516e+00
## result.5846	3	1.138717e+00	1.138716e+00
## result.5847	3	1.138917e+00	1.138916e+00
## result.5848	3	1.139117e+00	1.139116e+00
## result.5849	3	1.139317e+00	1.139316e+00
## result.5850	3	1.139517e+00	1.139516e+00
## result.5851	3	1.139717e+00	1.139716e+00
## result.5852	3	1.139917e+00	1.139916e+00
## result.5853	3	1.140117e+00	1.140116e+00
## result.5854	3	1.140317e+00	1.140316e+00
## result.5855	3	1.140517e+00	1.140516e+00

## result.5856	3	1.140717e+00	1.140716e+00
## result.5857	3	1.140917e+00	1.140916e+00
## result.5858	3	1.141117e+00	1.141116e+00
## result.5859	3	1.141317e+00	1.141316e+00
## result.5860	3	1.141517e+00	1.141516e+00
## result.5861	3	1.141717e+00	1.141716e+00
## result.5862	3	1.141917e+00	1.141916e+00
## result.5863	3	1.142117e+00	1.142117e+00
## result.5864	3	1.142317e+00	1.142317e+00
## result.5865	3	1.142517e+00	1.142517e+00
## result.5866	3	1.142717e+00	1.142717e+00
## result.5867	3	1.142917e+00	1.142917e+00
## result.5868	3	1.143117e+00	1.143117e+00
## result.5869	3	1.143317e+00	1.143317e+00
## result.5870	3	1.143517e+00	1.143517e+00
## result.5871	3	1.143717e+00	1.143717e+00
## result.5872	3	1.143917e+00	1.143917e+00
## result.5873	3	1.144117e+00	1.144117e+00
## result.5874	3	1.144317e+00	1.144317e+00
## result.5875	3	1.144517e+00	1.144517e+00
## result.5876	3	1.144717e+00	1.144717e+00
## result.5877	3	1.144917e+00	1.144917e+00
## result.5878	3	1.145117e+00	1.145117e+00
## result.5879	3	1.145317e+00	1.145317e+00
## result.5880	3	1.145517e+00	1.145517e+00
## result.5881	3	1.145717e+00	1.145717e+00
## result.5882	3	1.145918e+00	1.145917e+00
## result.5883	3	1.146118e+00	1.146117e+00
## result.5884	3	1.146318e+00	1.146317e+00
## result.5885	3	1.146518e+00	1.146517e+00
## result.5886	3	1.146718e+00	1.146717e+00
## result.5887	3	1.146918e+00	1.146917e+00
## result.5888	3	1.147118e+00	1.147117e+00
## result.5889	3	1.147318e+00	1.147317e+00
## result.5890	3	1.147518e+00	1.147517e+00
## result.5891	3	1.147718e+00	1.147717e+00
## result.5892	3	1.147918e+00	1.147917e+00
## result.5893	3	1.148118e+00	1.148117e+00
## result.5894	3	1.148318e+00	1.148317e+00
## result.5895	3	1.148518e+00	1.148517e+00
## result.5896	3	1.148718e+00	1.148717e+00
## result.5897	3	1.148918e+00	1.148917e+00
## result.5898	3	1.149118e+00	1.149117e+00
## result.5899	3	1.149318e+00	1.149317e+00
## result.5900	3	1.149518e+00	1.149517e+00
## result.5901	3	1.149718e+00	1.149717e+00
## result.5902	3	1.149918e+00	1.149917e+00
## result.5903	3	1.150118e+00	1.150117e+00
## result.5904	3	1.150318e+00	1.150317e+00
## result.5905	3	1.150518e+00	1.150517e+00
## result.5906	3	1.150718e+00	1.150717e+00
## result.5907	3	1.150918e+00	1.150917e+00
## result.5908	3	1.151118e+00	1.151117e+00
## result.5909	3	1.151318e+00	1.151317e+00

## result.5910	3	1.151518e+00	1.151517e+00
## result.5911	3	1.151718e+00	1.151717e+00
## result.5912	3	1.151918e+00	1.151917e+00
## result.5913	3	1.152118e+00	1.152117e+00
## result.5914	3	1.152318e+00	1.152317e+00
## result.5915	3	1.152518e+00	1.152517e+00
## result.5916	3	1.152718e+00	1.152718e+00
## result.5917	3	1.152918e+00	1.152918e+00
## result.5918	3	1.153118e+00	1.153118e+00
## result.5919	3	1.153318e+00	1.153318e+00
## result.5920	3	1.153518e+00	1.153518e+00
## result.5921	3	1.153718e+00	1.153718e+00
## result.5922	3	1.153918e+00	1.153918e+00
## result.5923	3	1.154118e+00	1.154118e+00
## result.5924	3	1.154318e+00	1.154318e+00
## result.5925	3	1.154518e+00	1.154518e+00
## result.5926	3	1.154718e+00	1.154718e+00
## result.5927	3	1.154918e+00	1.154918e+00
## result.5928	3	1.155118e+00	1.155118e+00
## result.5929	3	1.155318e+00	1.155318e+00
## result.5930	3	1.155518e+00	1.155518e+00
## result.5931	3	1.155718e+00	1.155718e+00
## result.5932	3	1.155919e+00	1.155918e+00
## result.5933	3	1.156119e+00	1.156118e+00
## result.5934	3	1.156319e+00	1.156318e+00
## result.5935	3	1.156519e+00	1.156518e+00
## result.5936	3	1.156719e+00	1.156718e+00
## result.5937	3	1.156919e+00	1.156918e+00
## result.5938	3	1.157119e+00	1.157118e+00
## result.5939	3	1.157319e+00	1.157318e+00
## result.5940	3	1.157519e+00	1.157518e+00
## result.5941	3	1.157719e+00	1.157718e+00
## result.5942	3	1.157919e+00	1.157918e+00
## result.5943	3	1.158119e+00	1.158118e+00
## result.5944	3	1.158319e+00	1.158318e+00
## result.5945	3	1.158519e+00	1.158518e+00
## result.5946	3	1.158719e+00	1.158718e+00
## result.5947	3	1.158919e+00	1.158918e+00
## result.5948	3	1.159119e+00	1.159118e+00
## result.5949	3	1.159319e+00	1.159318e+00
## result.5950	3	1.159519e+00	1.159518e+00
## result.5951	3	1.159719e+00	1.159718e+00
## result.5952	3	1.159919e+00	1.159918e+00
## result.5953	3	1.160119e+00	1.160118e+00
## result.5954	3	1.160319e+00	1.160318e+00
## result.5955	3	1.160519e+00	1.160518e+00
## result.5956	3	1.160719e+00	1.160718e+00
## result.5957	3	1.160919e+00	1.160918e+00
## result.5958	3	1.161119e+00	1.161118e+00
## result.5959	3	1.161319e+00	1.161318e+00
## result.5960	3	1.161519e+00	1.161518e+00
## result.5961	3	1.161719e+00	1.161718e+00
## result.5962	3	1.161919e+00	1.161918e+00
## result.5963	3	1.162119e+00	1.162118e+00

## result.5964	3	1.162319e+00	1.162318e+00
## result.5965	3	1.162519e+00	1.162518e+00
## result.5966	3	1.162719e+00	1.162718e+00
## result.5967	3	1.162919e+00	1.162918e+00
## result.5968	3	1.163119e+00	1.163119e+00
## result.5969	3	1.163319e+00	1.163319e+00
## result.5970	3	1.163519e+00	1.163519e+00
## result.5971	3	1.163719e+00	1.163719e+00
## result.5972	3	1.163919e+00	1.163919e+00
## result.5973	3	1.164119e+00	1.164119e+00
## result.5974	3	1.164319e+00	1.164319e+00
## result.5975	3	1.164519e+00	1.164519e+00
## result.5976	3	1.164719e+00	1.164719e+00
## result.5977	3	1.164919e+00	1.164919e+00
## result.5978	3	1.165119e+00	1.165119e+00
## result.5979	3	1.165319e+00	1.165319e+00
## result.5980	3	1.165519e+00	1.165519e+00
## result.5981	3	1.165719e+00	1.165719e+00
## result.5982	3	1.165920e+00	1.165919e+00
## result.5983	3	1.166120e+00	1.166119e+00
## result.5984	3	1.166320e+00	1.166319e+00
## result.5985	3	1.166520e+00	1.166519e+00
## result.5986	3	1.166720e+00	1.166719e+00
## result.5987	3	1.166920e+00	1.166919e+00
## result.5988	3	1.167120e+00	1.167119e+00
## result.5989	3	1.167320e+00	1.167319e+00
## result.5990	3	1.167520e+00	1.167519e+00
## result.5991	3	1.167720e+00	1.167719e+00
## result.5992	3	1.167920e+00	1.167919e+00
## result.5993	3	1.168120e+00	1.168119e+00
## result.5994	3	1.168320e+00	1.168319e+00
## result.5995	3	1.168520e+00	1.168519e+00
## result.5996	3	1.168720e+00	1.168719e+00
## result.5997	3	1.168920e+00	1.168919e+00
## result.5998	3	1.169120e+00	1.169119e+00
## result.5999	3	1.169320e+00	1.169319e+00
## result.6000	3	1.169520e+00	1.169519e+00
## result.6001	3	1.169720e+00	1.169719e+00
## result.6002	3	1.169920e+00	1.169919e+00
## result.6003	3	1.170120e+00	1.170119e+00
## result.6004	3	1.170320e+00	1.170319e+00
## result.6005	3	1.170520e+00	1.170519e+00
## result.6006	3	1.170720e+00	1.170719e+00
## result.6007	3	1.170920e+00	1.170919e+00
## result.6008	3	1.171120e+00	1.171119e+00
## result.6009	3	1.171320e+00	1.171319e+00
## result.6010	3	1.171520e+00	1.171519e+00
## result.6011	3	1.171720e+00	1.171719e+00
## result.6012	3	1.171920e+00	1.171919e+00
## result.6013	3	1.172120e+00	1.172119e+00
## result.6014	3	1.172320e+00	1.172319e+00
## result.6015	3	1.172520e+00	1.172519e+00
## result.6016	3	1.172720e+00	1.172719e+00
## result.6017	3	1.172920e+00	1.172919e+00

## result.6018	3	1.173120e+00	1.173119e+00
## result.6019	3	1.173320e+00	1.173319e+00
## result.6020	3	1.173520e+00	1.173520e+00
## result.6021	3	1.173720e+00	1.173720e+00
## result.6022	3	1.173920e+00	1.173920e+00
## result.6023	3	1.174120e+00	1.174120e+00
## result.6024	3	1.174320e+00	1.174320e+00
## result.6025	3	1.174520e+00	1.174520e+00
## result.6026	3	1.174720e+00	1.174720e+00
## result.6027	3	1.174920e+00	1.174920e+00
## result.6028	3	1.175120e+00	1.175120e+00
## result.6029	3	1.175320e+00	1.175320e+00
## result.6030	3	1.175520e+00	1.175520e+00
## result.6031	3	1.175720e+00	1.175720e+00
## result.6032	3	1.175921e+00	1.175920e+00
## result.6033	3	1.176121e+00	1.176120e+00
## result.6034	3	1.176321e+00	1.176320e+00
## result.6035	3	1.176521e+00	1.176520e+00
## result.6036	3	1.176721e+00	1.176720e+00
## result.6037	3	1.176921e+00	1.176920e+00
## result.6038	3	1.177121e+00	1.177120e+00
## result.6039	3	1.177321e+00	1.177320e+00
## result.6040	3	1.177521e+00	1.177520e+00
## result.6041	3	1.177721e+00	1.177720e+00
## result.6042	3	1.177921e+00	1.177920e+00
## result.6043	3	1.178121e+00	1.178120e+00
## result.6044	3	1.178321e+00	1.178320e+00
## result.6045	3	1.178521e+00	1.178520e+00
## result.6046	3	1.178721e+00	1.178720e+00
## result.6047	3	1.178921e+00	1.178920e+00
## result.6048	3	1.179121e+00	1.179120e+00
## result.6049	3	1.179321e+00	1.179320e+00
## result.6050	3	1.179521e+00	1.179520e+00
## result.6051	3	1.179721e+00	1.179720e+00
## result.6052	3	1.179921e+00	1.179920e+00
## result.6053	3	1.180121e+00	1.180120e+00
## result.6054	3	1.180321e+00	1.180320e+00
## result.6055	3	1.180521e+00	1.180520e+00
## result.6056	3	1.180721e+00	1.180720e+00
## result.6057	3	1.180921e+00	1.180920e+00
## result.6058	3	1.181121e+00	1.181120e+00
## result.6059	3	1.181321e+00	1.181320e+00
## result.6060	3	1.181521e+00	1.181520e+00
## result.6061	3	1.181721e+00	1.181720e+00
## result.6062	3	1.181921e+00	1.181920e+00
## result.6063	3	1.182121e+00	1.182120e+00
## result.6064	3	1.182321e+00	1.182320e+00
## result.6065	3	1.182521e+00	1.182520e+00
## result.6066	3	1.182721e+00	1.182720e+00
## result.6067	3	1.182921e+00	1.182920e+00
## result.6068	3	1.183121e+00	1.183120e+00
## result.6069	3	1.183321e+00	1.183320e+00
## result.6070	3	1.183521e+00	1.183520e+00
## result.6071	3	1.183721e+00	1.183720e+00

## result.6072	3	1.183921e+00	1.183920e+00
## result.6073	3	1.184121e+00	1.184121e+00
## result.6074	3	1.184321e+00	1.184321e+00
## result.6075	3	1.184521e+00	1.184521e+00
## result.6076	3	1.184721e+00	1.184721e+00
## result.6077	3	1.184921e+00	1.184921e+00
## result.6078	3	1.185121e+00	1.185121e+00
## result.6079	3	1.185321e+00	1.185321e+00
## result.6080	3	1.185521e+00	1.185521e+00
## result.6081	3	1.185721e+00	1.185721e+00
## result.6082	3	1.185921e+00	1.185921e+00
## result.6083	3	1.186122e+00	1.186121e+00
## result.6084	3	1.186322e+00	1.186321e+00
## result.6085	3	1.186522e+00	1.186521e+00
## result.6086	3	1.186722e+00	1.186721e+00
## result.6087	3	1.186922e+00	1.186921e+00
## result.6088	3	1.187122e+00	1.187121e+00
## result.6089	3	1.187322e+00	1.187321e+00
## result.6090	3	1.187522e+00	1.187521e+00
## result.6091	3	1.187722e+00	1.187721e+00
## result.6092	3	1.187922e+00	1.187921e+00
## result.6093	3	1.188122e+00	1.188121e+00
## result.6094	3	1.188322e+00	1.188321e+00
## result.6095	3	1.188522e+00	1.188521e+00
## result.6096	3	1.188722e+00	1.188721e+00
## result.6097	3	1.188922e+00	1.188921e+00
## result.6098	3	1.189122e+00	1.189121e+00
## result.6099	3	1.189322e+00	1.189321e+00
## result.6100	3	1.189522e+00	1.189521e+00
## result.6101	3	1.189722e+00	1.189721e+00
## result.6102	3	1.189922e+00	1.189921e+00
## result.6103	3	1.190122e+00	1.190121e+00
## result.6104	3	1.190322e+00	1.190321e+00
## result.6105	3	1.190522e+00	1.190521e+00
## result.6106	3	1.190722e+00	1.190721e+00
## result.6107	3	1.190922e+00	1.190921e+00
## result.6108	3	1.191122e+00	1.191121e+00
## result.6109	3	1.191322e+00	1.191321e+00
## result.6110	3	1.191522e+00	1.191521e+00
## result.6111	3	1.191722e+00	1.191721e+00
## result.6112	3	1.191922e+00	1.191921e+00
## result.6113	3	1.192122e+00	1.192121e+00
## result.6114	3	1.192322e+00	1.192321e+00
## result.6115	3	1.192522e+00	1.192521e+00
## result.6116	3	1.192722e+00	1.192721e+00
## result.6117	3	1.192922e+00	1.192921e+00
## result.6118	3	1.193122e+00	1.193121e+00
## result.6119	3	1.193322e+00	1.193321e+00
## result.6120	3	1.193522e+00	1.193521e+00
## result.6121	3	1.193722e+00	1.193721e+00
## result.6122	3	1.193922e+00	1.193921e+00
## result.6123	3	1.194122e+00	1.194121e+00
## result.6124	3	1.194322e+00	1.194321e+00
## result.6125	3	1.194522e+00	1.194521e+00

## result.6126	3	1.194722e+00	1.194722e+00
## result.6127	3	1.194922e+00	1.194922e+00
## result.6128	3	1.195122e+00	1.195122e+00
## result.6129	3	1.195322e+00	1.195322e+00
## result.6130	3	1.195522e+00	1.195522e+00
## result.6131	3	1.195722e+00	1.195722e+00
## result.6132	3	1.195922e+00	1.195922e+00
## result.6133	3	1.196123e+00	1.196122e+00
## result.6134	3	1.196323e+00	1.196322e+00
## result.6135	3	1.196523e+00	1.196522e+00
## result.6136	3	1.196723e+00	1.196722e+00
## result.6137	3	1.196923e+00	1.196922e+00
## result.6138	3	1.197123e+00	1.197122e+00
## result.6139	3	1.197323e+00	1.197322e+00
## result.6140	3	1.197523e+00	1.197522e+00
## result.6141	3	1.197723e+00	1.197722e+00
## result.6142	3	1.197923e+00	1.197922e+00
## result.6143	3	1.198123e+00	1.198122e+00
## result.6144	3	1.198323e+00	1.198322e+00
## result.6145	3	1.198523e+00	1.198522e+00
## result.6146	3	1.198723e+00	1.198722e+00
## result.6147	3	1.198923e+00	1.198922e+00
## result.6148	3	1.199123e+00	1.199122e+00
## result.6149	3	1.199323e+00	1.199322e+00
## result.6150	3	1.199523e+00	1.199522e+00
## result.6151	3	1.199723e+00	1.199722e+00
## result.6152	3	1.199923e+00	1.199922e+00
## result.6153	3	1.200123e+00	1.200122e+00
## result.6154	3	1.200323e+00	1.200322e+00
## result.6155	3	1.200523e+00	1.200522e+00
## result.6156	3	1.200723e+00	1.200722e+00
## result.6157	3	1.200923e+00	1.200922e+00
## result.6158	3	1.201123e+00	1.201122e+00
## result.6159	3	1.201323e+00	1.201322e+00
## result.6160	3	1.201523e+00	1.201522e+00
## result.6161	3	1.201723e+00	1.201722e+00
## result.6162	3	1.201923e+00	1.201922e+00
## result.6163	3	1.202123e+00	1.202122e+00
## result.6164	3	1.202323e+00	1.202322e+00
## result.6165	3	1.202523e+00	1.202522e+00
## result.6166	3	1.202723e+00	1.202722e+00
## result.6167	3	1.202923e+00	1.202922e+00
## result.6168	3	1.203123e+00	1.203122e+00
## result.6169	3	1.203323e+00	1.203322e+00
## result.6170	3	1.203523e+00	1.203522e+00
## result.6171	3	1.203723e+00	1.203722e+00
## result.6172	3	1.203923e+00	1.203922e+00
## result.6173	3	1.204123e+00	1.204122e+00
## result.6174	3	1.204323e+00	1.204322e+00
## result.6175	3	1.204523e+00	1.204522e+00
## result.6176	3	1.204723e+00	1.204722e+00
## result.6177	3	1.204923e+00	1.204923e+00
## result.6178	3	1.205123e+00	1.205123e+00
## result.6179	3	1.205323e+00	1.205323e+00

## result.6180	3	1.205523e+00	1.205523e+00
## result.6181	3	1.205723e+00	1.205723e+00
## result.6182	3	1.205923e+00	1.205923e+00
## result.6183	3	1.206124e+00	1.206123e+00
## result.6184	3	1.206324e+00	1.206323e+00
## result.6185	3	1.206524e+00	1.206523e+00
## result.6186	3	1.206724e+00	1.206723e+00
## result.6187	3	1.206924e+00	1.206923e+00
## result.6188	3	1.207124e+00	1.207123e+00
## result.6189	3	1.207324e+00	1.207323e+00
## result.6190	3	1.207524e+00	1.207523e+00
## result.6191	3	1.207724e+00	1.207723e+00
## result.6192	3	1.207924e+00	1.207923e+00
## result.6193	3	1.208124e+00	1.208123e+00
## result.6194	3	1.208324e+00	1.208323e+00
## result.6195	3	1.208524e+00	1.208523e+00
## result.6196	3	1.208724e+00	1.208723e+00
## result.6197	3	1.208924e+00	1.208923e+00
## result.6198	3	1.209124e+00	1.209123e+00
## result.6199	3	1.209324e+00	1.209323e+00
## result.6200	3	1.209524e+00	1.209523e+00
## result.6201	3	1.209724e+00	1.209723e+00
## result.6202	3	1.209924e+00	1.209923e+00
## result.6203	3	1.210124e+00	1.210123e+00
## result.6204	3	1.210324e+00	1.210323e+00
## result.6205	3	1.210524e+00	1.210523e+00
## result.6206	3	1.210724e+00	1.210723e+00
## result.6207	3	1.210924e+00	1.210923e+00
## result.6208	3	1.211124e+00	1.211123e+00
## result.6209	3	1.211324e+00	1.211323e+00
## result.6210	3	1.211524e+00	1.211523e+00
## result.6211	3	1.211724e+00	1.211723e+00
## result.6212	3	1.211924e+00	1.211923e+00
## result.6213	3	1.212124e+00	1.212123e+00
## result.6214	3	1.212324e+00	1.212323e+00
## result.6215	3	1.212524e+00	1.212523e+00
## result.6216	3	1.212724e+00	1.212723e+00
## result.6217	3	1.212924e+00	1.212923e+00
## result.6218	3	1.213124e+00	1.213123e+00
## result.6219	3	1.213324e+00	1.213323e+00
## result.6220	3	1.213524e+00	1.213523e+00
## result.6221	3	1.213724e+00	1.213723e+00
## result.6222	3	1.213924e+00	1.213923e+00
## result.6223	3	1.214124e+00	1.214123e+00
## result.6224	3	1.214324e+00	1.214323e+00
## result.6225	3	1.214524e+00	1.214523e+00
## result.6226	3	1.214724e+00	1.214723e+00
## result.6227	3	1.214924e+00	1.214923e+00
## result.6228	3	1.215124e+00	1.215123e+00
## result.6229	3	1.215324e+00	1.215323e+00
## result.6230	3	1.215524e+00	1.215524e+00
## result.6231	3	1.215724e+00	1.215724e+00
## result.6232	3	1.215924e+00	1.215924e+00
## result.6233	3	1.216124e+00	1.216124e+00

## result.6234	3	1.216325e+00	1.216324e+00
## result.6235	3	1.216525e+00	1.216524e+00
## result.6236	3	1.216725e+00	1.216724e+00
## result.6237	3	1.216925e+00	1.216924e+00
## result.6238	3	1.217125e+00	1.217124e+00
## result.6239	3	1.217325e+00	1.217324e+00
## result.6240	3	1.217525e+00	1.217524e+00
## result.6241	3	1.217725e+00	1.217724e+00
## result.6242	3	1.217925e+00	1.217924e+00
## result.6243	3	1.218125e+00	1.218124e+00
## result.6244	3	1.218325e+00	1.218324e+00
## result.6245	3	1.218525e+00	1.218524e+00
## result.6246	3	1.218725e+00	1.218724e+00
## result.6247	3	1.218925e+00	1.218924e+00
## result.6248	3	1.219125e+00	1.219124e+00
## result.6249	3	1.219325e+00	1.219324e+00
## result.6250	3	1.219525e+00	1.219524e+00
## result.6251	3	1.219725e+00	1.219724e+00
## result.6252	3	1.219925e+00	1.219924e+00
## result.6253	3	1.220125e+00	1.220124e+00
## result.6254	3	1.220325e+00	1.220324e+00
## result.6255	3	1.220525e+00	1.220524e+00
## result.6256	3	1.220725e+00	1.220724e+00
## result.6257	3	1.220925e+00	1.220924e+00
## result.6258	3	1.221125e+00	1.221124e+00
## result.6259	3	1.221325e+00	1.221324e+00
## result.6260	3	1.221525e+00	1.221524e+00
## result.6261	3	1.221725e+00	1.221724e+00
## result.6262	3	1.221925e+00	1.221924e+00
## result.6263	3	1.222125e+00	1.222124e+00
## result.6264	3	1.222325e+00	1.222324e+00
## result.6265	3	1.222525e+00	1.222524e+00
## result.6266	3	1.222725e+00	1.222724e+00
## result.6267	3	1.222925e+00	1.222924e+00
## result.6268	3	1.223125e+00	1.223124e+00
## result.6269	3	1.223325e+00	1.223324e+00
## result.6270	3	1.223525e+00	1.223524e+00
## result.6271	3	1.223725e+00	1.223724e+00
## result.6272	3	1.223925e+00	1.223924e+00
## result.6273	3	1.224125e+00	1.224124e+00
## result.6274	3	1.224325e+00	1.224324e+00
## result.6275	3	1.224525e+00	1.224524e+00
## result.6276	3	1.224725e+00	1.224724e+00
## result.6277	3	1.224925e+00	1.224924e+00
## result.6278	3	1.225125e+00	1.225124e+00
## result.6279	3	1.225325e+00	1.225324e+00
## result.6280	3	1.225525e+00	1.225524e+00
## result.6281	3	1.225725e+00	1.225724e+00
## result.6282	3	1.225925e+00	1.225925e+00
## result.6283	3	1.226125e+00	1.226125e+00
## result.6284	3	1.226326e+00	1.226325e+00
## result.6285	3	1.226526e+00	1.226525e+00
## result.6286	3	1.226726e+00	1.226725e+00
## result.6287	3	1.226926e+00	1.226925e+00

## result.6288	3	1.227126e+00	1.227125e+00
## result.6289	3	1.227326e+00	1.227325e+00
## result.6290	3	1.227526e+00	1.227525e+00
## result.6291	3	1.227726e+00	1.227725e+00
## result.6292	3	1.227926e+00	1.227925e+00
## result.6293	3	1.228126e+00	1.228125e+00
## result.6294	3	1.228326e+00	1.228325e+00
## result.6295	3	1.228526e+00	1.228525e+00
## result.6296	3	1.228726e+00	1.228725e+00
## result.6297	3	1.228926e+00	1.228925e+00
## result.6298	3	1.229126e+00	1.229125e+00
## result.6299	3	1.229326e+00	1.229325e+00
## result.6300	3	1.229526e+00	1.229525e+00
## result.6301	3	1.229726e+00	1.229725e+00
## result.6302	3	1.229926e+00	1.229925e+00
## result.6303	3	1.230126e+00	1.230125e+00
## result.6304	3	1.230326e+00	1.230325e+00
## result.6305	3	1.230526e+00	1.230525e+00
## result.6306	3	1.230726e+00	1.230725e+00
## result.6307	3	1.230926e+00	1.230925e+00
## result.6308	3	1.231126e+00	1.231125e+00
## result.6309	3	1.231326e+00	1.231325e+00
## result.6310	3	1.231526e+00	1.231525e+00
## result.6311	3	1.231726e+00	1.231725e+00
## result.6312	3	1.231926e+00	1.231925e+00
## result.6313	3	1.232126e+00	1.232125e+00
## result.6314	3	1.232326e+00	1.232325e+00
## result.6315	3	1.232526e+00	1.232525e+00
## result.6316	3	1.232726e+00	1.232725e+00
## result.6317	3	1.232926e+00	1.232925e+00
## result.6318	3	1.233126e+00	1.233125e+00
## result.6319	3	1.233326e+00	1.233325e+00
## result.6320	3	1.233526e+00	1.233525e+00
## result.6321	3	1.233726e+00	1.233725e+00
## result.6322	3	1.233926e+00	1.233925e+00
## result.6323	3	1.234126e+00	1.234125e+00
## result.6324	3	1.234326e+00	1.234325e+00
## result.6325	3	1.234526e+00	1.234525e+00
## result.6326	3	1.234726e+00	1.234725e+00
## result.6327	3	1.234926e+00	1.234925e+00
## result.6328	3	1.235126e+00	1.235125e+00
## result.6329	3	1.235326e+00	1.235325e+00
## result.6330	3	1.235526e+00	1.235525e+00
## result.6331	3	1.235726e+00	1.235725e+00
## result.6332	3	1.235926e+00	1.235925e+00
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## result.6334	3	1.236327e+00	1.236326e+00
## result.6335	3	1.236527e+00	1.236526e+00
## result.6336	3	1.236727e+00	1.236726e+00
## result.6337	3	1.236927e+00	1.236926e+00
## result.6338	3	1.237127e+00	1.237126e+00
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## result.6340	3	1.237527e+00	1.237526e+00
## result.6341	3	1.237727e+00	1.237726e+00

## result.6342	3	1.237927e+00	1.237926e+00
## result.6343	3	1.238127e+00	1.238126e+00
## result.6344	3	1.238327e+00	1.238326e+00
## result.6345	3	1.238527e+00	1.238526e+00
## result.6346	3	1.238727e+00	1.238726e+00
## result.6347	3	1.238927e+00	1.238926e+00
## result.6348	3	1.239127e+00	1.239126e+00
## result.6349	3	1.239327e+00	1.239326e+00
## result.6350	3	1.239527e+00	1.239526e+00
## result.6351	3	1.239727e+00	1.239726e+00
## result.6352	3	1.239927e+00	1.239926e+00
## result.6353	3	1.240127e+00	1.240126e+00
## result.6354	3	1.240327e+00	1.240326e+00
## result.6355	3	1.240527e+00	1.240526e+00
## result.6356	3	1.240727e+00	1.240726e+00
## result.6357	3	1.240927e+00	1.240926e+00
## result.6358	3	1.241127e+00	1.241126e+00
## result.6359	3	1.241327e+00	1.241326e+00
## result.6360	3	1.241527e+00	1.241526e+00
## result.6361	3	1.241727e+00	1.241726e+00
## result.6362	3	1.241927e+00	1.241926e+00
## result.6363	3	1.242127e+00	1.242126e+00
## result.6364	3	1.242327e+00	1.242326e+00
## result.6365	3	1.242527e+00	1.242526e+00
## result.6366	3	1.242727e+00	1.242726e+00
## result.6367	3	1.242927e+00	1.242926e+00
## result.6368	3	1.243127e+00	1.243126e+00
## result.6369	3	1.243327e+00	1.243326e+00
## result.6370	3	1.243527e+00	1.243526e+00
## result.6371	3	1.243727e+00	1.243726e+00
## result.6372	3	1.243927e+00	1.243926e+00
## result.6373	3	1.244127e+00	1.244126e+00
## result.6374	3	1.244327e+00	1.244326e+00
## result.6375	3	1.244527e+00	1.244526e+00
## result.6376	3	1.244727e+00	1.244726e+00
## result.6377	3	1.244927e+00	1.244926e+00
## result.6378	3	1.245127e+00	1.245126e+00
## result.6379	3	1.245327e+00	1.245326e+00
## result.6380	3	1.245527e+00	1.245526e+00
## result.6381	3	1.245727e+00	1.245726e+00
## result.6382	3	1.245927e+00	1.245926e+00
## result.6383	3	1.246127e+00	1.246126e+00
## result.6384	3	1.246327e+00	1.246326e+00
## result.6385	3	1.246528e+00	1.246526e+00
## result.6386	3	1.246728e+00	1.246727e+00
## result.6387	3	1.246928e+00	1.246927e+00
## result.6388	3	1.247128e+00	1.247127e+00
## result.6389	3	1.247328e+00	1.247327e+00
## result.6390	3	1.247528e+00	1.247527e+00
## result.6391	3	1.247728e+00	1.247727e+00
## result.6392	3	1.247928e+00	1.247927e+00
## result.6393	3	1.248128e+00	1.248127e+00
## result.6394	3	1.248328e+00	1.248327e+00
## result.6395	3	1.248528e+00	1.248527e+00

## result.6396	3	1.248728e+00	1.248727e+00
## result.6397	3	1.248928e+00	1.248927e+00
## result.6398	3	1.249128e+00	1.249127e+00
## result.6399	3	1.249328e+00	1.249327e+00
## result.6400	3	1.249528e+00	1.249527e+00
## result.6401	3	1.249728e+00	1.249727e+00
## result.6402	3	1.249928e+00	1.249927e+00
## result.6403	3	1.250128e+00	1.250127e+00
## result.6404	3	1.250328e+00	1.250327e+00
## result.6405	3	1.250528e+00	1.250527e+00
## result.6406	3	1.250728e+00	1.250727e+00
## result.6407	3	1.250928e+00	1.250927e+00
## result.6408	3	1.251128e+00	1.251127e+00
## result.6409	3	1.251328e+00	1.251327e+00
## result.6410	3	1.251528e+00	1.251527e+00
## result.6411	3	1.251728e+00	1.251727e+00
## result.6412	3	1.251928e+00	1.251927e+00
## result.6413	3	1.252128e+00	1.252127e+00
## result.6414	3	1.252328e+00	1.252327e+00
## result.6415	3	1.252528e+00	1.252527e+00
## result.6416	3	1.252728e+00	1.252727e+00
## result.6417	3	1.252928e+00	1.252927e+00
## result.6418	3	1.253128e+00	1.253127e+00
## result.6419	3	1.253328e+00	1.253327e+00
## result.6420	3	1.253528e+00	1.253527e+00
## result.6421	3	1.253728e+00	1.253727e+00
## result.6422	3	1.253928e+00	1.253927e+00
## result.6423	3	1.254128e+00	1.254127e+00
## result.6424	3	1.254328e+00	1.254327e+00
## result.6425	3	1.254528e+00	1.254527e+00
## result.6426	3	1.254728e+00	1.254727e+00
## result.6427	3	1.254928e+00	1.254927e+00
## result.6428	3	1.255128e+00	1.255127e+00
## result.6429	3	1.255328e+00	1.255327e+00
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## result.6431	3	1.255728e+00	1.255727e+00
## result.6432	3	1.255928e+00	1.255927e+00
## result.6433	3	1.256128e+00	1.256127e+00
## result.6434	3	1.256328e+00	1.256327e+00
## result.6435	3	1.256529e+00	1.256527e+00
## result.6436	3	1.256729e+00	1.256727e+00
## result.6437	3	1.256929e+00	1.256927e+00
## result.6438	3	1.257129e+00	1.257127e+00
## result.6439	3	1.257329e+00	1.257328e+00
## result.6440	3	1.257529e+00	1.257528e+00
## result.6441	3	1.257729e+00	1.257728e+00
## result.6442	3	1.257929e+00	1.257928e+00
## result.6443	3	1.258129e+00	1.258128e+00
## result.6444	3	1.258329e+00	1.258328e+00
## result.6445	3	1.258529e+00	1.258528e+00
## result.6446	3	1.258729e+00	1.258728e+00
## result.6447	3	1.258929e+00	1.258928e+00
## result.6448	3	1.259129e+00	1.259128e+00
## result.6449	3	1.259329e+00	1.259328e+00

## result.6450	3	1.259529e+00	1.259528e+00
## result.6451	3	1.259729e+00	1.259728e+00
## result.6452	3	1.259929e+00	1.259928e+00
## result.6453	3	1.260129e+00	1.260128e+00
## result.6454	3	1.260329e+00	1.260328e+00
## result.6455	3	1.260529e+00	1.260528e+00
## result.6456	3	1.260729e+00	1.260728e+00
## result.6457	3	1.260929e+00	1.260928e+00
## result.6458	3	1.261129e+00	1.261128e+00
## result.6459	3	1.261329e+00	1.261328e+00
## result.6460	3	1.261529e+00	1.261528e+00
## result.6461	3	1.261729e+00	1.261728e+00
## result.6462	3	1.261929e+00	1.261928e+00
## result.6463	3	1.262129e+00	1.262128e+00
## result.6464	3	1.262329e+00	1.262328e+00
## result.6465	3	1.262529e+00	1.262528e+00
## result.6466	3	1.262729e+00	1.262728e+00
## result.6467	3	1.262929e+00	1.262928e+00
## result.6468	3	1.263129e+00	1.263128e+00
## result.6469	3	1.263329e+00	1.263328e+00
## result.6470	3	1.263529e+00	1.263528e+00
## result.6471	3	1.263729e+00	1.263728e+00
## result.6472	3	1.263929e+00	1.263928e+00
## result.6473	3	1.264129e+00	1.264128e+00
## result.6474	3	1.264329e+00	1.264328e+00
## result.6475	3	1.264529e+00	1.264528e+00
## result.6476	3	1.264729e+00	1.264728e+00
## result.6477	3	1.264929e+00	1.264928e+00
## result.6478	3	1.265129e+00	1.265128e+00
## result.6479	3	1.265329e+00	1.265328e+00
## result.6480	3	1.265529e+00	1.265528e+00
## result.6481	3	1.265729e+00	1.265728e+00
## result.6482	3	1.265929e+00	1.265928e+00
## result.6483	3	1.266129e+00	1.266128e+00
## result.6484	3	1.266329e+00	1.266328e+00
## result.6485	3	1.266530e+00	1.266528e+00
## result.6486	3	1.266730e+00	1.266728e+00
## result.6487	3	1.266930e+00	1.266928e+00
## result.6488	3	1.267130e+00	1.267128e+00
## result.6489	3	1.267330e+00	1.267328e+00
## result.6490	3	1.267530e+00	1.267528e+00
## result.6491	3	1.267730e+00	1.267729e+00
## result.6492	3	1.267930e+00	1.267929e+00
## result.6493	3	1.268130e+00	1.268129e+00
## result.6494	3	1.268330e+00	1.268329e+00
## result.6495	3	1.268530e+00	1.268529e+00
## result.6496	3	1.268730e+00	1.268729e+00
## result.6497	3	1.268930e+00	1.268929e+00
## result.6498	3	1.269130e+00	1.269129e+00
## result.6499	3	1.269330e+00	1.269329e+00
## result.6500	3	1.269530e+00	1.269529e+00
## result.6501	3	1.269730e+00	1.269729e+00
## result.6502	3	1.269930e+00	1.269929e+00
## result.6503	3	1.270130e+00	1.270129e+00

## result.6504	3	1.270330e+00	1.270329e+00
## result.6505	3	1.270530e+00	1.270529e+00
## result.6506	3	1.270730e+00	1.270729e+00
## result.6507	3	1.270930e+00	1.270929e+00
## result.6508	3	1.271130e+00	1.271129e+00
## result.6509	3	1.271330e+00	1.271329e+00
## result.6510	3	1.271530e+00	1.271529e+00
## result.6511	3	1.271730e+00	1.271729e+00
## result.6512	3	1.271930e+00	1.271929e+00
## result.6513	3	1.272130e+00	1.272129e+00
## result.6514	3	1.272330e+00	1.272329e+00
## result.6515	3	1.272530e+00	1.272529e+00
## result.6516	3	1.272730e+00	1.272729e+00
## result.6517	3	1.272930e+00	1.272929e+00
## result.6518	3	1.273130e+00	1.273129e+00
## result.6519	3	1.273330e+00	1.273329e+00
## result.6520	3	1.273530e+00	1.273529e+00
## result.6521	3	1.273730e+00	1.273729e+00
## result.6522	3	1.273930e+00	1.273929e+00
## result.6523	3	1.274130e+00	1.274129e+00
## result.6524	3	1.274330e+00	1.274329e+00
## result.6525	3	1.274530e+00	1.274529e+00
## result.6526	3	1.274730e+00	1.274729e+00
## result.6527	3	1.274930e+00	1.274929e+00
## result.6528	3	1.275130e+00	1.275129e+00
## result.6529	3	1.275330e+00	1.275329e+00
## result.6530	3	1.275530e+00	1.275529e+00
## result.6531	3	1.275730e+00	1.275729e+00
## result.6532	3	1.275930e+00	1.275929e+00
## result.6533	3	1.276130e+00	1.276129e+00
## result.6534	3	1.276330e+00	1.276329e+00
## result.6535	3	1.276530e+00	1.276529e+00
## result.6536	3	1.276731e+00	1.276729e+00
## result.6537	3	1.276931e+00	1.276929e+00
## result.6538	3	1.277131e+00	1.277129e+00
## result.6539	3	1.277331e+00	1.277329e+00
## result.6540	3	1.277531e+00	1.277529e+00
## result.6541	3	1.277731e+00	1.277729e+00
## result.6542	3	1.277931e+00	1.277929e+00
## result.6543	3	1.278131e+00	1.278130e+00
## result.6544	3	1.278331e+00	1.278330e+00
## result.6545	3	1.278531e+00	1.278530e+00
## result.6546	3	1.278731e+00	1.278730e+00
## result.6547	3	1.278931e+00	1.278930e+00
## result.6548	3	1.279131e+00	1.279130e+00
## result.6549	3	1.279331e+00	1.279330e+00
## result.6550	3	1.279531e+00	1.279530e+00
## result.6551	3	1.279731e+00	1.279730e+00
## result.6552	3	1.279931e+00	1.279930e+00
## result.6553	3	1.280131e+00	1.280130e+00
## result.6554	3	1.280331e+00	1.280330e+00
## result.6555	3	1.280531e+00	1.280530e+00
## result.6556	3	1.280731e+00	1.280730e+00
## result.6557	3	1.280931e+00	1.280930e+00

## result.6558	3	1.281131e+00	1.281130e+00
## result.6559	3	1.281331e+00	1.281330e+00
## result.6560	3	1.281531e+00	1.281530e+00
## result.6561	3	1.281731e+00	1.281730e+00
## result.6562	3	1.281931e+00	1.281930e+00
## result.6563	3	1.282131e+00	1.282130e+00
## result.6564	3	1.282331e+00	1.282330e+00
## result.6565	3	1.282531e+00	1.282530e+00
## result.6566	3	1.282731e+00	1.282730e+00
## result.6567	3	1.282931e+00	1.282930e+00
## result.6568	3	1.283131e+00	1.283130e+00
## result.6569	3	1.283331e+00	1.283330e+00
## result.6570	3	1.283531e+00	1.283530e+00
## result.6571	3	1.283731e+00	1.283730e+00
## result.6572	3	1.283931e+00	1.283930e+00
## result.6573	3	1.284131e+00	1.284130e+00
## result.6574	3	1.284331e+00	1.284330e+00
## result.6575	3	1.284531e+00	1.284530e+00
## result.6576	3	1.284731e+00	1.284730e+00
## result.6577	3	1.284931e+00	1.284930e+00
## result.6578	3	1.285131e+00	1.285130e+00
## result.6579	3	1.285331e+00	1.285330e+00
## result.6580	3	1.285531e+00	1.285530e+00
## result.6581	3	1.285731e+00	1.285730e+00
## result.6582	3	1.285931e+00	1.285930e+00
## result.6583	3	1.286131e+00	1.286130e+00
## result.6584	3	1.286331e+00	1.286330e+00
## result.6585	3	1.286531e+00	1.286530e+00
## result.6586	3	1.286732e+00	1.286730e+00
## result.6587	3	1.286932e+00	1.286930e+00
## result.6588	3	1.287132e+00	1.287130e+00
## result.6589	3	1.287332e+00	1.287330e+00
## result.6590	3	1.287532e+00	1.287530e+00
## result.6591	3	1.287732e+00	1.287730e+00
## result.6592	3	1.287932e+00	1.287930e+00
## result.6593	3	1.288132e+00	1.288130e+00
## result.6594	3	1.288332e+00	1.288330e+00
## result.6595	3	1.288532e+00	1.288530e+00
## result.6596	3	1.288732e+00	1.288731e+00
## result.6597	3	1.288932e+00	1.288931e+00
## result.6598	3	1.289132e+00	1.289131e+00
## result.6599	3	1.289332e+00	1.289331e+00
## result.6600	3	1.289532e+00	1.289531e+00
## result.6601	3	1.289732e+00	1.289731e+00
## result.6602	3	1.289932e+00	1.289931e+00
## result.6603	3	1.290132e+00	1.290131e+00
## result.6604	3	1.290332e+00	1.290331e+00
## result.6605	3	1.290532e+00	1.290531e+00
## result.6606	3	1.290732e+00	1.290731e+00
## result.6607	3	1.290932e+00	1.290931e+00
## result.6608	3	1.291132e+00	1.291131e+00
## result.6609	3	1.291332e+00	1.291331e+00
## result.6610	3	1.291532e+00	1.291531e+00
## result.6611	3	1.291732e+00	1.291731e+00

## result.6612	3	1.291932e+00	1.291931e+00
## result.6613	3	1.292132e+00	1.292131e+00
## result.6614	3	1.292332e+00	1.292331e+00
## result.6615	3	1.292532e+00	1.292531e+00
## result.6616	3	1.292732e+00	1.292731e+00
## result.6617	3	1.292932e+00	1.292931e+00
## result.6618	3	1.293132e+00	1.293131e+00
## result.6619	3	1.293332e+00	1.293331e+00
## result.6620	3	1.293532e+00	1.293531e+00
## result.6621	3	1.293732e+00	1.293731e+00
## result.6622	3	1.293932e+00	1.293931e+00
## result.6623	3	1.294132e+00	1.294131e+00
## result.6624	3	1.294332e+00	1.294331e+00
## result.6625	3	1.294532e+00	1.294531e+00
## result.6626	3	1.294732e+00	1.294731e+00
## result.6627	3	1.294932e+00	1.294931e+00
## result.6628	3	1.295132e+00	1.295131e+00
## result.6629	3	1.295332e+00	1.295331e+00
## result.6630	3	1.295532e+00	1.295531e+00
## result.6631	3	1.295732e+00	1.295731e+00
## result.6632	3	1.295932e+00	1.295931e+00
## result.6633	3	1.296132e+00	1.296131e+00
## result.6634	3	1.296332e+00	1.296331e+00
## result.6635	3	1.296532e+00	1.296531e+00
## result.6636	3	1.296733e+00	1.296731e+00
## result.6637	3	1.296933e+00	1.296931e+00
## result.6638	3	1.297133e+00	1.297131e+00
## result.6639	3	1.297333e+00	1.297331e+00
## result.6640	3	1.297533e+00	1.297531e+00
## result.6641	3	1.297733e+00	1.297731e+00
## result.6642	3	1.297933e+00	1.297931e+00
## result.6643	3	1.298133e+00	1.298131e+00
## result.6644	3	1.298333e+00	1.298331e+00
## result.6645	3	1.298533e+00	1.298531e+00
## result.6646	3	1.298733e+00	1.298731e+00
## result.6647	3	1.298933e+00	1.298931e+00
## result.6648	3	1.299133e+00	1.299132e+00
## result.6649	3	1.299333e+00	1.299332e+00
## result.6650	3	1.299533e+00	1.299532e+00
## result.6651	3	1.299733e+00	1.299732e+00
## result.6652	3	1.299933e+00	1.299932e+00
## result.6653	3	1.300133e+00	1.300132e+00
## result.6654	3	1.300333e+00	1.300332e+00
## result.6655	3	1.300533e+00	1.300532e+00
## result.6656	3	1.300733e+00	1.300732e+00
## result.6657	3	1.300933e+00	1.300932e+00
## result.6658	3	1.301133e+00	1.301132e+00
## result.6659	3	1.301333e+00	1.301332e+00
## result.6660	3	1.301533e+00	1.301532e+00
## result.6661	3	1.301733e+00	1.301732e+00
## result.6662	3	1.301933e+00	1.301932e+00
## result.6663	3	1.302133e+00	1.302132e+00
## result.6664	3	1.302333e+00	1.302332e+00
## result.6665	3	1.302533e+00	1.302532e+00

## result.6666	3	1.302733e+00	1.302732e+00
## result.6667	3	1.302933e+00	1.302932e+00
## result.6668	3	1.303133e+00	1.303132e+00
## result.6669	3	1.303333e+00	1.303332e+00
## result.6670	3	1.303533e+00	1.303532e+00
## result.6671	3	1.303733e+00	1.303732e+00
## result.6672	3	1.303933e+00	1.303932e+00
## result.6673	3	1.304133e+00	1.304132e+00
## result.6674	3	1.304333e+00	1.304332e+00
## result.6675	3	1.304533e+00	1.304532e+00
## result.6676	3	1.304733e+00	1.304732e+00
## result.6677	3	1.304933e+00	1.304932e+00
## result.6678	3	1.305133e+00	1.305132e+00
## result.6679	3	1.305333e+00	1.305332e+00
## result.6680	3	1.305533e+00	1.305532e+00
## result.6681	3	1.305733e+00	1.305732e+00
## result.6682	3	1.305933e+00	1.305932e+00
## result.6683	3	1.306133e+00	1.306132e+00
## result.6684	3	1.306333e+00	1.306332e+00
## result.6685	3	1.306533e+00	1.306532e+00
## result.6686	3	1.306733e+00	1.306732e+00
## result.6687	3	1.306934e+00	1.306932e+00
## result.6688	3	1.307134e+00	1.307132e+00
## result.6689	3	1.307334e+00	1.307332e+00
## result.6690	3	1.307534e+00	1.307532e+00
## result.6691	3	1.307734e+00	1.307732e+00
## result.6692	3	1.307934e+00	1.307932e+00
## result.6693	3	1.308134e+00	1.308132e+00
## result.6694	3	1.308334e+00	1.308332e+00
## result.6695	3	1.308534e+00	1.308532e+00
## result.6696	3	1.308734e+00	1.308732e+00
## result.6697	3	1.308934e+00	1.308932e+00
## result.6698	3	1.309134e+00	1.309132e+00
## result.6699	3	1.309334e+00	1.309332e+00
## result.6700	3	1.309534e+00	1.309533e+00
## result.6701	3	1.309734e+00	1.309733e+00
## result.6702	3	1.309934e+00	1.309933e+00
## result.6703	3	1.310134e+00	1.310133e+00
## result.6704	3	1.310334e+00	1.310333e+00
## result.6705	3	1.310534e+00	1.310533e+00
## result.6706	3	1.310734e+00	1.310733e+00
## result.6707	3	1.310934e+00	1.310933e+00
## result.6708	3	1.311134e+00	1.311133e+00
## result.6709	3	1.311334e+00	1.311333e+00
## result.6710	3	1.311534e+00	1.311533e+00
## result.6711	3	1.311734e+00	1.311733e+00
## result.6712	3	1.311934e+00	1.311933e+00
## result.6713	3	1.312134e+00	1.312133e+00
## result.6714	3	1.312334e+00	1.312333e+00
## result.6715	3	1.312534e+00	1.312533e+00
## result.6716	3	1.312734e+00	1.312733e+00
## result.6717	3	1.312934e+00	1.312933e+00
## result.6718	3	1.313134e+00	1.313133e+00
## result.6719	3	1.313334e+00	1.313333e+00

## result.6720	3	1.313534e+00	1.313533e+00
## result.6721	3	1.313734e+00	1.313733e+00
## result.6722	3	1.313934e+00	1.313933e+00
## result.6723	3	1.314134e+00	1.314133e+00
## result.6724	3	1.314334e+00	1.314333e+00
## result.6725	3	1.314534e+00	1.314533e+00
## result.6726	3	1.314734e+00	1.314733e+00
## result.6727	3	1.314934e+00	1.314933e+00
## result.6728	3	1.315134e+00	1.315133e+00
## result.6729	3	1.315334e+00	1.315333e+00
## result.6730	3	1.315534e+00	1.315533e+00
## result.6731	3	1.315734e+00	1.315733e+00
## result.6732	3	1.315934e+00	1.315933e+00
## result.6733	3	1.316134e+00	1.316133e+00
## result.6734	3	1.316334e+00	1.316333e+00
## result.6735	3	1.316534e+00	1.316533e+00
## result.6736	3	1.316734e+00	1.316733e+00
## result.6737	3	1.316935e+00	1.316933e+00
## result.6738	3	1.317135e+00	1.317133e+00
## result.6739	3	1.317335e+00	1.317333e+00
## result.6740	3	1.317535e+00	1.317533e+00
## result.6741	3	1.317735e+00	1.317733e+00
## result.6742	3	1.317935e+00	1.317933e+00
## result.6743	3	1.318135e+00	1.318133e+00
## result.6744	3	1.318335e+00	1.318333e+00
## result.6745	3	1.318535e+00	1.318533e+00
## result.6746	3	1.318735e+00	1.318733e+00
## result.6747	3	1.318935e+00	1.318933e+00
## result.6748	3	1.319135e+00	1.319133e+00
## result.6749	3	1.319335e+00	1.319333e+00
## result.6750	3	1.319535e+00	1.319533e+00
## result.6751	3	1.319735e+00	1.319733e+00
## result.6752	3	1.319935e+00	1.319934e+00
## result.6753	3	1.320135e+00	1.320134e+00
## result.6754	3	1.320335e+00	1.320334e+00
## result.6755	3	1.320535e+00	1.320534e+00
## result.6756	3	1.320735e+00	1.320734e+00
## result.6757	3	1.320935e+00	1.320934e+00
## result.6758	3	1.321135e+00	1.321134e+00
## result.6759	3	1.321335e+00	1.321334e+00
## result.6760	3	1.321535e+00	1.321534e+00
## result.6761	3	1.321735e+00	1.321734e+00
## result.6762	3	1.321935e+00	1.321934e+00
## result.6763	3	1.322135e+00	1.322134e+00
## result.6764	3	1.322335e+00	1.322334e+00
## result.6765	3	1.322535e+00	1.322534e+00
## result.6766	3	1.322735e+00	1.322734e+00
## result.6767	3	1.322935e+00	1.322934e+00
## result.6768	3	1.323135e+00	1.323134e+00
## result.6769	3	1.323335e+00	1.323334e+00
## result.6770	3	1.323535e+00	1.323534e+00
## result.6771	3	1.323735e+00	1.323734e+00
## result.6772	3	1.323935e+00	1.323934e+00
## result.6773	3	1.324135e+00	1.324134e+00

## result.6774	3	1.324335e+00	1.324334e+00
## result.6775	3	1.324535e+00	1.324534e+00
## result.6776	3	1.324735e+00	1.324734e+00
## result.6777	3	1.324935e+00	1.324934e+00
## result.6778	3	1.325135e+00	1.325134e+00
## result.6779	3	1.325335e+00	1.325334e+00
## result.6780	3	1.325535e+00	1.325534e+00
## result.6781	3	1.325735e+00	1.325734e+00
## result.6782	3	1.325935e+00	1.325934e+00
## result.6783	3	1.326135e+00	1.326134e+00
## result.6784	3	1.326335e+00	1.326334e+00
## result.6785	3	1.326535e+00	1.326534e+00
## result.6786	3	1.326735e+00	1.326734e+00
## result.6787	3	1.326936e+00	1.326934e+00
## result.6788	3	1.327136e+00	1.327134e+00
## result.6789	3	1.327336e+00	1.327334e+00
## result.6790	3	1.327536e+00	1.327534e+00
## result.6791	3	1.327736e+00	1.327734e+00
## result.6792	3	1.327936e+00	1.327934e+00
## result.6793	3	1.328136e+00	1.328134e+00
## result.6794	3	1.328336e+00	1.328334e+00
## result.6795	3	1.328536e+00	1.328534e+00
## result.6796	3	1.328736e+00	1.328734e+00
## result.6797	3	1.328936e+00	1.328934e+00
## result.6798	3	1.329136e+00	1.329134e+00
## result.6799	3	1.329336e+00	1.329334e+00
## result.6800	3	1.329536e+00	1.329534e+00
## result.6801	3	1.329736e+00	1.329734e+00
## result.6802	3	1.329936e+00	1.329934e+00
## result.6803	3	1.330136e+00	1.330134e+00
## result.6804	3	1.330336e+00	1.330334e+00
## result.6805	3	1.330536e+00	1.330535e+00
## result.6806	3	1.330736e+00	1.330735e+00
## result.6807	3	1.330936e+00	1.330935e+00
## result.6808	3	1.331136e+00	1.331135e+00
## result.6809	3	1.331336e+00	1.331335e+00
## result.6810	3	1.331536e+00	1.331535e+00
## result.6811	3	1.331736e+00	1.331735e+00
## result.6812	3	1.331936e+00	1.331935e+00
## result.6813	3	1.332136e+00	1.332135e+00
## result.6814	3	1.332336e+00	1.332335e+00
## result.6815	3	1.332536e+00	1.332535e+00
## result.6816	3	1.332736e+00	1.332735e+00
## result.6817	3	1.332936e+00	1.332935e+00
## result.6818	3	1.333136e+00	1.333135e+00
## result.6819	3	1.333336e+00	1.333335e+00
## result.6820	3	1.333536e+00	1.333535e+00
## result.6821	3	1.333736e+00	1.333735e+00
## result.6822	3	1.333936e+00	1.333935e+00
## result.6823	3	1.334136e+00	1.334135e+00
## result.6824	3	1.334336e+00	1.334335e+00
## result.6825	3	1.334536e+00	1.334535e+00
## result.6826	3	1.334736e+00	1.334735e+00
## result.6827	3	1.334936e+00	1.334935e+00

## result.6828	3	1.335136e+00	1.335135e+00
## result.6829	3	1.335336e+00	1.335335e+00
## result.6830	3	1.335536e+00	1.335535e+00
## result.6831	3	1.335736e+00	1.335735e+00
## result.6832	3	1.335936e+00	1.335935e+00
## result.6833	3	1.336136e+00	1.336135e+00
## result.6834	3	1.336336e+00	1.336335e+00
## result.6835	3	1.336536e+00	1.336535e+00
## result.6836	3	1.336736e+00	1.336735e+00
## result.6837	3	1.336936e+00	1.336935e+00
## result.6838	3	1.337137e+00	1.337135e+00
## result.6839	3	1.337337e+00	1.337335e+00
## result.6840	3	1.337537e+00	1.337535e+00
## result.6841	3	1.337737e+00	1.337735e+00
## result.6842	3	1.337937e+00	1.337935e+00
## result.6843	3	1.338137e+00	1.338135e+00
## result.6844	3	1.338337e+00	1.338335e+00
## result.6845	3	1.338537e+00	1.338535e+00
## result.6846	3	1.338737e+00	1.338735e+00
## result.6847	3	1.338937e+00	1.338935e+00
## result.6848	3	1.339137e+00	1.339135e+00
## result.6849	3	1.339337e+00	1.339335e+00
## result.6850	3	1.339537e+00	1.339535e+00
## result.6851	3	1.339737e+00	1.339735e+00
## result.6852	3	1.339937e+00	1.339935e+00
## result.6853	3	1.340137e+00	1.340135e+00
## result.6854	3	1.340337e+00	1.340335e+00
## result.6855	3	1.340537e+00	1.340535e+00
## result.6856	3	1.340737e+00	1.340735e+00
## result.6857	3	1.340937e+00	1.340936e+00
## result.6858	3	1.341137e+00	1.341136e+00
## result.6859	3	1.341337e+00	1.341336e+00
## result.6860	3	1.341537e+00	1.341536e+00
## result.6861	3	1.341737e+00	1.341736e+00
## result.6862	3	1.341937e+00	1.341936e+00
## result.6863	3	1.342137e+00	1.342136e+00
## result.6864	3	1.342337e+00	1.342336e+00
## result.6865	3	1.342537e+00	1.342536e+00
## result.6866	3	1.342737e+00	1.342736e+00
## result.6867	3	1.342937e+00	1.342936e+00
## result.6868	3	1.343137e+00	1.343136e+00
## result.6869	3	1.343337e+00	1.343336e+00
## result.6870	3	1.343537e+00	1.343536e+00
## result.6871	3	1.343737e+00	1.343736e+00
## result.6872	3	1.343937e+00	1.343936e+00
## result.6873	3	1.344137e+00	1.344136e+00
## result.6874	3	1.344337e+00	1.344336e+00
## result.6875	3	1.344537e+00	1.344536e+00
## result.6876	3	1.344737e+00	1.344736e+00
## result.6877	3	1.344937e+00	1.344936e+00
## result.6878	3	1.345137e+00	1.345136e+00
## result.6879	3	1.345337e+00	1.345336e+00
## result.6880	3	1.345537e+00	1.345536e+00
## result.6881	3	1.345737e+00	1.345736e+00

## result.6882	3	1.345937e+00	1.345936e+00
## result.6883	3	1.346137e+00	1.346136e+00
## result.6884	3	1.346337e+00	1.346336e+00
## result.6885	3	1.346537e+00	1.346536e+00
## result.6886	3	1.346737e+00	1.346736e+00
## result.6887	3	1.346937e+00	1.346936e+00
## result.6888	3	1.347138e+00	1.347136e+00
## result.6889	3	1.347338e+00	1.347336e+00
## result.6890	3	1.347538e+00	1.347536e+00
## result.6891	3	1.347738e+00	1.347736e+00
## result.6892	3	1.347938e+00	1.347936e+00
## result.6893	3	1.348138e+00	1.348136e+00
## result.6894	3	1.348338e+00	1.348336e+00
## result.6895	3	1.348538e+00	1.348536e+00
## result.6896	3	1.348738e+00	1.348736e+00
## result.6897	3	1.348938e+00	1.348936e+00
## result.6898	3	1.349138e+00	1.349136e+00
## result.6899	3	1.349338e+00	1.349336e+00
## result.6900	3	1.349538e+00	1.349536e+00
## result.6901	3	1.349738e+00	1.349736e+00
## result.6902	3	1.349938e+00	1.349936e+00
## result.6903	3	1.350138e+00	1.350136e+00
## result.6904	3	1.350338e+00	1.350336e+00
## result.6905	3	1.350538e+00	1.350536e+00
## result.6906	3	1.350738e+00	1.350736e+00
## result.6907	3	1.350938e+00	1.350936e+00
## result.6908	3	1.351138e+00	1.351136e+00
## result.6909	3	1.351338e+00	1.351337e+00
## result.6910	3	1.351538e+00	1.351537e+00
## result.6911	3	1.351738e+00	1.351737e+00
## result.6912	3	1.351938e+00	1.351937e+00
## result.6913	3	1.352138e+00	1.352137e+00
## result.6914	3	1.352338e+00	1.352337e+00
## result.6915	3	1.352538e+00	1.352537e+00
## result.6916	3	1.352738e+00	1.352737e+00
## result.6917	3	1.352938e+00	1.352937e+00
## result.6918	3	1.353138e+00	1.353137e+00
## result.6919	3	1.353338e+00	1.353337e+00
## result.6920	3	1.353538e+00	1.353537e+00
## result.6921	3	1.353738e+00	1.353737e+00
## result.6922	3	1.353938e+00	1.353937e+00
## result.6923	3	1.354138e+00	1.354137e+00
## result.6924	3	1.354338e+00	1.354337e+00
## result.6925	3	1.354538e+00	1.354537e+00
## result.6926	3	1.354738e+00	1.354737e+00
## result.6927	3	1.354938e+00	1.354937e+00
## result.6928	3	1.355138e+00	1.355137e+00
## result.6929	3	1.355338e+00	1.355337e+00
## result.6930	3	1.355538e+00	1.355537e+00
## result.6931	3	1.355738e+00	1.355737e+00
## result.6932	3	1.355938e+00	1.355937e+00
## result.6933	3	1.356138e+00	1.356137e+00
## result.6934	3	1.356338e+00	1.356337e+00
## result.6935	3	1.356538e+00	1.356537e+00

## result.6936	3	1.356738e+00	1.356737e+00
## result.6937	3	1.356938e+00	1.356937e+00
## result.6938	3	1.357139e+00	1.357137e+00
## result.6939	3	1.357339e+00	1.357337e+00
## result.6940	3	1.357539e+00	1.357537e+00
## result.6941	3	1.357739e+00	1.357737e+00
## result.6942	3	1.357939e+00	1.357937e+00
## result.6943	3	1.358139e+00	1.358137e+00
## result.6944	3	1.358339e+00	1.358337e+00
## result.6945	3	1.358539e+00	1.358537e+00
## result.6946	3	1.358739e+00	1.358737e+00
## result.6947	3	1.358939e+00	1.358937e+00
## result.6948	3	1.359139e+00	1.359137e+00
## result.6949	3	1.359339e+00	1.359337e+00
## result.6950	3	1.359539e+00	1.359537e+00
## result.6951	3	1.359739e+00	1.359737e+00
## result.6952	3	1.359939e+00	1.359937e+00
## result.6953	3	1.360139e+00	1.360137e+00
## result.6954	3	1.360339e+00	1.360337e+00
## result.6955	3	1.360539e+00	1.360537e+00
## result.6956	3	1.360739e+00	1.360737e+00
## result.6957	3	1.360939e+00	1.360937e+00
## result.6958	3	1.361139e+00	1.361137e+00
## result.6959	3	1.361339e+00	1.361337e+00
## result.6960	3	1.361539e+00	1.361537e+00
## result.6961	3	1.361739e+00	1.361737e+00
## result.6962	3	1.361939e+00	1.361938e+00
## result.6963	3	1.362139e+00	1.362138e+00
## result.6964	3	1.362339e+00	1.362338e+00
## result.6965	3	1.362539e+00	1.362538e+00
## result.6966	3	1.362739e+00	1.362738e+00
## result.6967	3	1.362939e+00	1.362938e+00
## result.6968	3	1.363139e+00	1.363138e+00
## result.6969	3	1.363339e+00	1.363338e+00
## result.6970	3	1.363539e+00	1.363538e+00
## result.6971	3	1.363739e+00	1.363738e+00
## result.6972	3	1.363939e+00	1.363938e+00
## result.6973	3	1.364139e+00	1.364138e+00
## result.6974	3	1.364339e+00	1.364338e+00
## result.6975	3	1.364539e+00	1.364538e+00
## result.6976	3	1.364739e+00	1.364738e+00
## result.6977	3	1.364939e+00	1.364938e+00
## result.6978	3	1.365139e+00	1.365138e+00
## result.6979	3	1.365339e+00	1.365338e+00
## result.6980	3	1.365539e+00	1.365538e+00
## result.6981	3	1.365739e+00	1.365738e+00
## result.6982	3	1.365939e+00	1.365938e+00
## result.6983	3	1.366139e+00	1.366138e+00
## result.6984	3	1.366339e+00	1.366338e+00
## result.6985	3	1.366539e+00	1.366538e+00
## result.6986	3	1.366739e+00	1.366738e+00
## result.6987	3	1.366939e+00	1.366938e+00
## result.6988	3	1.367139e+00	1.367138e+00
## result.6989	3	1.367340e+00	1.367338e+00

## result.6990	3	1.367540e+00	1.367538e+00
## result.6991	3	1.367740e+00	1.367738e+00
## result.6992	3	1.367940e+00	1.367938e+00
## result.6993	3	1.368140e+00	1.368138e+00
## result.6994	3	1.368340e+00	1.368338e+00
## result.6995	3	1.368540e+00	1.368538e+00
## result.6996	3	1.368740e+00	1.368738e+00
## result.6997	3	1.368940e+00	1.368938e+00
## result.6998	3	1.369140e+00	1.369138e+00
## result.6999	3	1.369340e+00	1.369338e+00
## result.7000	3	1.369540e+00	1.369538e+00
## result.7001	3	1.369740e+00	1.369738e+00
## result.7002	3	1.369940e+00	1.369938e+00
## result.7003	3	1.370140e+00	1.370138e+00
## result.7004	3	1.370340e+00	1.370338e+00
## result.7005	3	1.370540e+00	1.370538e+00
## result.7006	3	1.370740e+00	1.370738e+00
## result.7007	3	1.370940e+00	1.370938e+00
## result.7008	3	1.371140e+00	1.371138e+00
## result.7009	3	1.371340e+00	1.371338e+00
## result.7010	3	1.371540e+00	1.371538e+00
## result.7011	3	1.371740e+00	1.371738e+00
## result.7012	3	1.371940e+00	1.371938e+00
## result.7013	3	1.372140e+00	1.372138e+00
## result.7014	3	1.372340e+00	1.372339e+00
## result.7015	3	1.372540e+00	1.372539e+00
## result.7016	3	1.372740e+00	1.372739e+00
## result.7017	3	1.372940e+00	1.372939e+00
## result.7018	3	1.373140e+00	1.373139e+00
## result.7019	3	1.373340e+00	1.373339e+00
## result.7020	3	1.373540e+00	1.373539e+00
## result.7021	3	1.373740e+00	1.373739e+00
## result.7022	3	1.373940e+00	1.373939e+00
## result.7023	3	1.374140e+00	1.374139e+00
## result.7024	3	1.374340e+00	1.374339e+00
## result.7025	3	1.374540e+00	1.374539e+00
## result.7026	3	1.374740e+00	1.374739e+00
## result.7027	3	1.374940e+00	1.374939e+00
## result.7028	3	1.375140e+00	1.375139e+00
## result.7029	3	1.375340e+00	1.375339e+00
## result.7030	3	1.375540e+00	1.375539e+00
## result.7031	3	1.375740e+00	1.375739e+00
## result.7032	3	1.375940e+00	1.375939e+00
## result.7033	3	1.376140e+00	1.376139e+00
## result.7034	3	1.376340e+00	1.376339e+00
## result.7035	3	1.376540e+00	1.376539e+00
## result.7036	3	1.376740e+00	1.376739e+00
## result.7037	3	1.376940e+00	1.376939e+00
## result.7038	3	1.377140e+00	1.377139e+00
## result.7039	3	1.377341e+00	1.377339e+00
## result.7040	3	1.377541e+00	1.377539e+00
## result.7041	3	1.377741e+00	1.377739e+00
## result.7042	3	1.377941e+00	1.377939e+00
## result.7043	3	1.378141e+00	1.378139e+00

## result.7044	3	1.378341e+00	1.378339e+00
## result.7045	3	1.378541e+00	1.378539e+00
## result.7046	3	1.378741e+00	1.378739e+00
## result.7047	3	1.378941e+00	1.378939e+00
## result.7048	3	1.379141e+00	1.379139e+00
## result.7049	3	1.379341e+00	1.379339e+00
## result.7050	3	1.379541e+00	1.379539e+00
## result.7051	3	1.379741e+00	1.379739e+00
## result.7052	3	1.379941e+00	1.379939e+00
## result.7053	3	1.380141e+00	1.380139e+00
## result.7054	3	1.380341e+00	1.380339e+00
## result.7055	3	1.380541e+00	1.380539e+00
## result.7056	3	1.380741e+00	1.380739e+00
## result.7057	3	1.380941e+00	1.380939e+00
## result.7058	3	1.381141e+00	1.381139e+00
## result.7059	3	1.381341e+00	1.381339e+00
## result.7060	3	1.381541e+00	1.381539e+00
## result.7061	3	1.381741e+00	1.381739e+00
## result.7062	3	1.381941e+00	1.381939e+00
## result.7063	3	1.382141e+00	1.382139e+00
## result.7064	3	1.382341e+00	1.382339e+00
## result.7065	3	1.382541e+00	1.382539e+00
## result.7066	3	1.382741e+00	1.382740e+00
## result.7067	3	1.382941e+00	1.382940e+00
## result.7068	3	1.383141e+00	1.383140e+00
## result.7069	3	1.383341e+00	1.383340e+00
## result.7070	3	1.383541e+00	1.383540e+00
## result.7071	3	1.383741e+00	1.383740e+00
## result.7072	3	1.383941e+00	1.383940e+00
## result.7073	3	1.384141e+00	1.384140e+00
## result.7074	3	1.384341e+00	1.384340e+00
## result.7075	3	1.384541e+00	1.384540e+00
## result.7076	3	1.384741e+00	1.384740e+00
## result.7077	3	1.384941e+00	1.384940e+00
## result.7078	3	1.385141e+00	1.385140e+00
## result.7079	3	1.385341e+00	1.385340e+00
## result.7080	3	1.385541e+00	1.385540e+00
## result.7081	3	1.385741e+00	1.385740e+00
## result.7082	3	1.385941e+00	1.385940e+00
## result.7083	3	1.386141e+00	1.386140e+00
## result.7084	3	1.386341e+00	1.386340e+00
## result.7085	3	1.386541e+00	1.386540e+00
## result.7086	3	1.386741e+00	1.386740e+00
## result.7087	3	1.386941e+00	1.386940e+00
## result.7088	3	1.387141e+00	1.387140e+00
## result.7089	3	1.387342e+00	1.387340e+00
## result.7090	3	1.387542e+00	1.387540e+00
## result.7091	3	1.387742e+00	1.387740e+00
## result.7092	3	1.387942e+00	1.387940e+00
## result.7093	3	1.388142e+00	1.388140e+00
## result.7094	3	1.388342e+00	1.388340e+00
## result.7095	3	1.388542e+00	1.388540e+00
## result.7096	3	1.388742e+00	1.388740e+00
## result.7097	3	1.388942e+00	1.388940e+00

## result.7098	3	1.389142e+00	1.389140e+00
## result.7099	3	1.389342e+00	1.389340e+00
## result.7100	3	1.389542e+00	1.389540e+00
## result.7101	3	1.389742e+00	1.389740e+00
## result.7102	3	1.389942e+00	1.389940e+00
## result.7103	3	1.390142e+00	1.390140e+00
## result.7104	3	1.390342e+00	1.390340e+00
## result.7105	3	1.390542e+00	1.390540e+00
## result.7106	3	1.390742e+00	1.390740e+00
## result.7107	3	1.390942e+00	1.390940e+00
## result.7108	3	1.391142e+00	1.391140e+00
## result.7109	3	1.391342e+00	1.391340e+00
## result.7110	3	1.391542e+00	1.391540e+00
## result.7111	3	1.391742e+00	1.391740e+00
## result.7112	3	1.391942e+00	1.391940e+00
## result.7113	3	1.392142e+00	1.392140e+00
## result.7114	3	1.392342e+00	1.392340e+00
## result.7115	3	1.392542e+00	1.392540e+00
## result.7116	3	1.392742e+00	1.392740e+00
## result.7117	3	1.392942e+00	1.392940e+00
## result.7118	3	1.393142e+00	1.393140e+00
## result.7119	3	1.393342e+00	1.393341e+00
## result.7120	3	1.393542e+00	1.393541e+00
## result.7121	3	1.393742e+00	1.393741e+00
## result.7122	3	1.393942e+00	1.393941e+00
## result.7123	3	1.394142e+00	1.394141e+00
## result.7124	3	1.394342e+00	1.394341e+00
## result.7125	3	1.394542e+00	1.394541e+00
## result.7126	3	1.394742e+00	1.394741e+00
## result.7127	3	1.394942e+00	1.394941e+00
## result.7128	3	1.395142e+00	1.395141e+00
## result.7129	3	1.395342e+00	1.395341e+00
## result.7130	3	1.395542e+00	1.395541e+00
## result.7131	3	1.395742e+00	1.395741e+00
## result.7132	3	1.395942e+00	1.395941e+00
## result.7133	3	1.396142e+00	1.396141e+00
## result.7134	3	1.396342e+00	1.396341e+00
## result.7135	3	1.396542e+00	1.396541e+00
## result.7136	3	1.396742e+00	1.396741e+00
## result.7137	3	1.396942e+00	1.396941e+00
## result.7138	3	1.397142e+00	1.397141e+00
## result.7139	3	1.397342e+00	1.397341e+00
## result.7140	3	1.397543e+00	1.397541e+00
## result.7141	3	1.397743e+00	1.397741e+00
## result.7142	3	1.397943e+00	1.397941e+00
## result.7143	3	1.398143e+00	1.398141e+00
## result.7144	3	1.398343e+00	1.398341e+00
## result.7145	3	1.398543e+00	1.398541e+00
## result.7146	3	1.398743e+00	1.398741e+00
## result.7147	3	1.398943e+00	1.398941e+00
## result.7148	3	1.399143e+00	1.399141e+00
## result.7149	3	1.399343e+00	1.399341e+00
## result.7150	3	1.399543e+00	1.399541e+00
## result.7151	3	1.399743e+00	1.399741e+00

## result.7152	3	1.399943e+00	1.399941e+00
## result.7153	3	1.400143e+00	1.400141e+00
## result.7154	3	1.400343e+00	1.400341e+00
## result.7155	3	1.400543e+00	1.400541e+00
## result.7156	3	1.400743e+00	1.400741e+00
## result.7157	3	1.400943e+00	1.400941e+00
## result.7158	3	1.401143e+00	1.401141e+00
## result.7159	3	1.401343e+00	1.401341e+00
## result.7160	3	1.401543e+00	1.401541e+00
## result.7161	3	1.401743e+00	1.401741e+00
## result.7162	3	1.401943e+00	1.401941e+00
## result.7163	3	1.402143e+00	1.402141e+00
## result.7164	3	1.402343e+00	1.402341e+00
## result.7165	3	1.402543e+00	1.402541e+00
## result.7166	3	1.402743e+00	1.402741e+00
## result.7167	3	1.402943e+00	1.402941e+00
## result.7168	3	1.403143e+00	1.403141e+00
## result.7169	3	1.403343e+00	1.403341e+00
## result.7170	3	1.403543e+00	1.403541e+00
## result.7171	3	1.403743e+00	1.403742e+00
## result.7172	3	1.403943e+00	1.403942e+00
## result.7173	3	1.404143e+00	1.404142e+00
## result.7174	3	1.404343e+00	1.404342e+00
## result.7175	3	1.404543e+00	1.404542e+00
## result.7176	3	1.404743e+00	1.404742e+00
## result.7177	3	1.404943e+00	1.404942e+00
## result.7178	3	1.405143e+00	1.405142e+00
## result.7179	3	1.405343e+00	1.405342e+00
## result.7180	3	1.405543e+00	1.405542e+00
## result.7181	3	1.405743e+00	1.405742e+00
## result.7182	3	1.405943e+00	1.405942e+00
## result.7183	3	1.406143e+00	1.406142e+00
## result.7184	3	1.406343e+00	1.406342e+00
## result.7185	3	1.406543e+00	1.406542e+00
## result.7186	3	1.406743e+00	1.406742e+00
## result.7187	3	1.406943e+00	1.406942e+00
## result.7188	3	1.407143e+00	1.407142e+00
## result.7189	3	1.407343e+00	1.407342e+00
## result.7190	3	1.407544e+00	1.407542e+00
## result.7191	3	1.407744e+00	1.407742e+00
## result.7192	3	1.407944e+00	1.407942e+00
## result.7193	3	1.408144e+00	1.408142e+00
## result.7194	3	1.408344e+00	1.408342e+00
## result.7195	3	1.408544e+00	1.408542e+00
## result.7196	3	1.408744e+00	1.408742e+00
## result.7197	3	1.408944e+00	1.408942e+00
## result.7198	3	1.409144e+00	1.409142e+00
## result.7199	3	1.409344e+00	1.409342e+00
## result.7200	3	1.409544e+00	1.409542e+00
## result.7201	3	1.409744e+00	1.409742e+00
## result.7202	3	1.409944e+00	1.409942e+00
## result.7203	3	1.410144e+00	1.410142e+00
## result.7204	3	1.410344e+00	1.410342e+00
## result.7205	3	1.410544e+00	1.410542e+00

## result.7206	3	1.410744e+00	1.410742e+00
## result.7207	3	1.410944e+00	1.410942e+00
## result.7208	3	1.411144e+00	1.411142e+00
## result.7209	3	1.411344e+00	1.411342e+00
## result.7210	3	1.411544e+00	1.411542e+00
## result.7211	3	1.411744e+00	1.411742e+00
## result.7212	3	1.411944e+00	1.411942e+00
## result.7213	3	1.412144e+00	1.412142e+00
## result.7214	3	1.412344e+00	1.412342e+00
## result.7215	3	1.412544e+00	1.412542e+00
## result.7216	3	1.412744e+00	1.412742e+00
## result.7217	3	1.412944e+00	1.412942e+00
## result.7218	3	1.413144e+00	1.413142e+00
## result.7219	3	1.413344e+00	1.413342e+00
## result.7220	3	1.413544e+00	1.413542e+00
## result.7221	3	1.413744e+00	1.413742e+00
## result.7222	3	1.413944e+00	1.413942e+00
## result.7223	3	1.414144e+00	1.414143e+00
## result.7224	3	1.414344e+00	1.414343e+00
## result.7225	3	1.414544e+00	1.414543e+00
## result.7226	3	1.414744e+00	1.414743e+00
## result.7227	3	1.414944e+00	1.414943e+00
## result.7228	3	1.415144e+00	1.415143e+00
## result.7229	3	1.415344e+00	1.415343e+00
## result.7230	3	1.415544e+00	1.415543e+00
## result.7231	3	1.415744e+00	1.415743e+00
## result.7232	3	1.415944e+00	1.415943e+00
## result.7233	3	1.416144e+00	1.416143e+00
## result.7234	3	1.416344e+00	1.416343e+00
## result.7235	3	1.416544e+00	1.416543e+00
## result.7236	3	1.416744e+00	1.416743e+00
## result.7237	3	1.416944e+00	1.416943e+00
## result.7238	3	1.417144e+00	1.417143e+00
## result.7239	3	1.417344e+00	1.417343e+00
## result.7240	3	1.417545e+00	1.417543e+00
## result.7241	3	1.417745e+00	1.417743e+00
## result.7242	3	1.417945e+00	1.417943e+00
## result.7243	3	1.418145e+00	1.418143e+00
## result.7244	3	1.418345e+00	1.418343e+00
## result.7245	3	1.418545e+00	1.418543e+00
## result.7246	3	1.418745e+00	1.418743e+00
## result.7247	3	1.418945e+00	1.418943e+00
## result.7248	3	1.419145e+00	1.419143e+00
## result.7249	3	1.419345e+00	1.419343e+00
## result.7250	3	1.419545e+00	1.419543e+00
## result.7251	3	1.419745e+00	1.419743e+00
## result.7252	3	1.419945e+00	1.419943e+00
## result.7253	3	1.420145e+00	1.420143e+00
## result.7254	3	1.420345e+00	1.420343e+00
## result.7255	3	1.420545e+00	1.420543e+00
## result.7256	3	1.420745e+00	1.420743e+00
## result.7257	3	1.420945e+00	1.420943e+00
## result.7258	3	1.421145e+00	1.421143e+00
## result.7259	3	1.421345e+00	1.421343e+00

## result.7260	3	1.421545e+00	1.421543e+00
## result.7261	3	1.421745e+00	1.421743e+00
## result.7262	3	1.421945e+00	1.421943e+00
## result.7263	3	1.422145e+00	1.422143e+00
## result.7264	3	1.422345e+00	1.422343e+00
## result.7265	3	1.422545e+00	1.422543e+00
## result.7266	3	1.422745e+00	1.422743e+00
## result.7267	3	1.422945e+00	1.422943e+00
## result.7268	3	1.423145e+00	1.423143e+00
## result.7269	3	1.423345e+00	1.423343e+00
## result.7270	3	1.423545e+00	1.423543e+00
## result.7271	3	1.423745e+00	1.423743e+00
## result.7272	3	1.423945e+00	1.423943e+00
## result.7273	3	1.424145e+00	1.424143e+00
## result.7274	3	1.424345e+00	1.424343e+00
## result.7275	3	1.424545e+00	1.424544e+00
## result.7276	3	1.424745e+00	1.424744e+00
## result.7277	3	1.424945e+00	1.424944e+00
## result.7278	3	1.425145e+00	1.425144e+00
## result.7279	3	1.425345e+00	1.425344e+00
## result.7280	3	1.425545e+00	1.425544e+00
## result.7281	3	1.425745e+00	1.425744e+00
## result.7282	3	1.425945e+00	1.425944e+00
## result.7283	3	1.426145e+00	1.426144e+00
## result.7284	3	1.426345e+00	1.426344e+00
## result.7285	3	1.426545e+00	1.426544e+00
## result.7286	3	1.426745e+00	1.426744e+00
## result.7287	3	1.426945e+00	1.426944e+00
## result.7288	3	1.427145e+00	1.427144e+00
## result.7289	3	1.427345e+00	1.427344e+00
## result.7290	3	1.427545e+00	1.427544e+00
## result.7291	3	1.427746e+00	1.427744e+00
## result.7292	3	1.427946e+00	1.427944e+00
## result.7293	3	1.428146e+00	1.428144e+00
## result.7294	3	1.428346e+00	1.428344e+00
## result.7295	3	1.428546e+00	1.428544e+00
## result.7296	3	1.428746e+00	1.428744e+00
## result.7297	3	1.428946e+00	1.428944e+00
## result.7298	3	1.429146e+00	1.429144e+00
## result.7299	3	1.429346e+00	1.429344e+00
## result.7300	3	1.429546e+00	1.429544e+00
## result.7301	3	1.429746e+00	1.429744e+00
## result.7302	3	1.429946e+00	1.429944e+00
## result.7303	3	1.430146e+00	1.430144e+00
## result.7304	3	1.430346e+00	1.430344e+00
## result.7305	3	1.430546e+00	1.430544e+00
## result.7306	3	1.430746e+00	1.430744e+00
## result.7307	3	1.430946e+00	1.430944e+00
## result.7308	3	1.431146e+00	1.431144e+00
## result.7309	3	1.431346e+00	1.431344e+00
## result.7310	3	1.431546e+00	1.431544e+00
## result.7311	3	1.431746e+00	1.431744e+00
## result.7312	3	1.431946e+00	1.431944e+00
## result.7313	3	1.432146e+00	1.432144e+00

## result.7314	3	1.432346e+00	1.432344e+00
## result.7315	3	1.432546e+00	1.432544e+00
## result.7316	3	1.432746e+00	1.432744e+00
## result.7317	3	1.432946e+00	1.432944e+00
## result.7318	3	1.433146e+00	1.433144e+00
## result.7319	3	1.433346e+00	1.433344e+00
## result.7320	3	1.433546e+00	1.433544e+00
## result.7321	3	1.433746e+00	1.433744e+00
## result.7322	3	1.433946e+00	1.433944e+00
## result.7323	3	1.434146e+00	1.434144e+00
## result.7324	3	1.434346e+00	1.434344e+00
## result.7325	3	1.434546e+00	1.434544e+00
## result.7326	3	1.434746e+00	1.434744e+00
## result.7327	3	1.434946e+00	1.434944e+00
## result.7328	3	1.435146e+00	1.435145e+00
## result.7329	3	1.435346e+00	1.435345e+00
## result.7330	3	1.435546e+00	1.435545e+00
## result.7331	3	1.435746e+00	1.435745e+00
## result.7332	3	1.435946e+00	1.435945e+00
## result.7333	3	1.436146e+00	1.436145e+00
## result.7334	3	1.436346e+00	1.436345e+00
## result.7335	3	1.436546e+00	1.436545e+00
## result.7336	3	1.436746e+00	1.436745e+00
## result.7337	3	1.436946e+00	1.436945e+00
## result.7338	3	1.437146e+00	1.437145e+00
## result.7339	3	1.437346e+00	1.437345e+00
## result.7340	3	1.437546e+00	1.437545e+00
## result.7341	3	1.437747e+00	1.437745e+00
## result.7342	3	1.437947e+00	1.437945e+00
## result.7343	3	1.438147e+00	1.438145e+00
## result.7344	3	1.438347e+00	1.438345e+00
## result.7345	3	1.438547e+00	1.438545e+00
## result.7346	3	1.438747e+00	1.438745e+00
## result.7347	3	1.438947e+00	1.438945e+00
## result.7348	3	1.439147e+00	1.439145e+00
## result.7349	3	1.439347e+00	1.439345e+00
## result.7350	3	1.439547e+00	1.439545e+00
## result.7351	3	1.439747e+00	1.439745e+00
## result.7352	3	1.439947e+00	1.439945e+00
## result.7353	3	1.440147e+00	1.440145e+00
## result.7354	3	1.440347e+00	1.440345e+00
## result.7355	3	1.440547e+00	1.440545e+00
## result.7356	3	1.440747e+00	1.440745e+00
## result.7357	3	1.440947e+00	1.440945e+00
## result.7358	3	1.441147e+00	1.441145e+00
## result.7359	3	1.441347e+00	1.441345e+00
## result.7360	3	1.441547e+00	1.441545e+00
## result.7361	3	1.441747e+00	1.441745e+00
## result.7362	3	1.441947e+00	1.441945e+00
## result.7363	3	1.442147e+00	1.442145e+00
## result.7364	3	1.442347e+00	1.442345e+00
## result.7365	3	1.442547e+00	1.442545e+00
## result.7366	3	1.442747e+00	1.442745e+00
## result.7367	3	1.442947e+00	1.442945e+00

## result.7368	3	1.443147e+00	1.443145e+00
## result.7369	3	1.443347e+00	1.443345e+00
## result.7370	3	1.443547e+00	1.443545e+00
## result.7371	3	1.443747e+00	1.443745e+00
## result.7372	3	1.443947e+00	1.443945e+00
## result.7373	3	1.444147e+00	1.444145e+00
## result.7374	3	1.444347e+00	1.444345e+00
## result.7375	3	1.444547e+00	1.444545e+00
## result.7376	3	1.444747e+00	1.444745e+00
## result.7377	3	1.444947e+00	1.444945e+00
## result.7378	3	1.445147e+00	1.445145e+00
## result.7379	3	1.445347e+00	1.445345e+00
## result.7380	3	1.445547e+00	1.445546e+00
## result.7381	3	1.445747e+00	1.445746e+00
## result.7382	3	1.445947e+00	1.445946e+00
## result.7383	3	1.446147e+00	1.446146e+00
## result.7384	3	1.446347e+00	1.446346e+00
## result.7385	3	1.446547e+00	1.446546e+00
## result.7386	3	1.446747e+00	1.446746e+00
## result.7387	3	1.446947e+00	1.446946e+00
## result.7388	3	1.447147e+00	1.447146e+00
## result.7389	3	1.447347e+00	1.447346e+00
## result.7390	3	1.447547e+00	1.447546e+00
## result.7391	3	1.447748e+00	1.447746e+00
## result.7392	3	1.447948e+00	1.447946e+00
## result.7393	3	1.448148e+00	1.448146e+00
## result.7394	3	1.448348e+00	1.448346e+00
## result.7395	3	1.448548e+00	1.448546e+00
## result.7396	3	1.448748e+00	1.448746e+00
## result.7397	3	1.448948e+00	1.448946e+00
## result.7398	3	1.449148e+00	1.449146e+00
## result.7399	3	1.449348e+00	1.449346e+00
## result.7400	3	1.449548e+00	1.449546e+00
## result.7401	3	1.449748e+00	1.449746e+00
## result.7402	3	1.449948e+00	1.449946e+00
## result.7403	3	1.450148e+00	1.450146e+00
## result.7404	3	1.450348e+00	1.450346e+00
## result.7405	3	1.450548e+00	1.450546e+00
## result.7406	3	1.450748e+00	1.450746e+00
## result.7407	3	1.450948e+00	1.450946e+00
## result.7408	3	1.451148e+00	1.451146e+00
## result.7409	3	1.451348e+00	1.451346e+00
## result.7410	3	1.451548e+00	1.451546e+00
## result.7411	3	1.451748e+00	1.451746e+00
## result.7412	3	1.451948e+00	1.451946e+00
## result.7413	3	1.452148e+00	1.452146e+00
## result.7414	3	1.452348e+00	1.452346e+00
## result.7415	3	1.452548e+00	1.452546e+00
## result.7416	3	1.452748e+00	1.452746e+00
## result.7417	3	1.452948e+00	1.452946e+00
## result.7418	3	1.453148e+00	1.453146e+00
## result.7419	3	1.453348e+00	1.453346e+00
## result.7420	3	1.453548e+00	1.453546e+00
## result.7421	3	1.453748e+00	1.453746e+00

## result.7422	3	1.453948e+00	1.453946e+00
## result.7423	3	1.454148e+00	1.454146e+00
## result.7424	3	1.454348e+00	1.454346e+00
## result.7425	3	1.454548e+00	1.454546e+00
## result.7426	3	1.454748e+00	1.454746e+00
## result.7427	3	1.454948e+00	1.454946e+00
## result.7428	3	1.455148e+00	1.455146e+00
## result.7429	3	1.455348e+00	1.455346e+00
## result.7430	3	1.455548e+00	1.455546e+00
## result.7431	3	1.455748e+00	1.455746e+00
## result.7432	3	1.455948e+00	1.455947e+00
## result.7433	3	1.456148e+00	1.456147e+00
## result.7434	3	1.456348e+00	1.456347e+00
## result.7435	3	1.456548e+00	1.456547e+00
## result.7436	3	1.456748e+00	1.456747e+00
## result.7437	3	1.456948e+00	1.456947e+00
## result.7438	3	1.457148e+00	1.457147e+00
## result.7439	3	1.457348e+00	1.457347e+00
## result.7440	3	1.457548e+00	1.457547e+00
## result.7441	3	1.457748e+00	1.457747e+00
## result.7442	3	1.457949e+00	1.457947e+00
## result.7443	3	1.458149e+00	1.458147e+00
## result.7444	3	1.458349e+00	1.458347e+00
## result.7445	3	1.458549e+00	1.458547e+00
## result.7446	3	1.458749e+00	1.458747e+00
## result.7447	3	1.458949e+00	1.458947e+00
## result.7448	3	1.459149e+00	1.459147e+00
## result.7449	3	1.459349e+00	1.459347e+00
## result.7450	3	1.459549e+00	1.459547e+00
## result.7451	3	1.459749e+00	1.459747e+00
## result.7452	3	1.459949e+00	1.459947e+00
## result.7453	3	1.460149e+00	1.460147e+00
## result.7454	3	1.460349e+00	1.460347e+00
## result.7455	3	1.460549e+00	1.460547e+00
## result.7456	3	1.460749e+00	1.460747e+00
## result.7457	3	1.460949e+00	1.460947e+00
## result.7458	3	1.461149e+00	1.461147e+00
## result.7459	3	1.461349e+00	1.461347e+00
## result.7460	3	1.461549e+00	1.461547e+00
## result.7461	3	1.461749e+00	1.461747e+00
## result.7462	3	1.461949e+00	1.461947e+00
## result.7463	3	1.462149e+00	1.462147e+00
## result.7464	3	1.462349e+00	1.462347e+00
## result.7465	3	1.462549e+00	1.462547e+00
## result.7466	3	1.462749e+00	1.462747e+00
## result.7467	3	1.462949e+00	1.462947e+00
## result.7468	3	1.463149e+00	1.463147e+00
## result.7469	3	1.463349e+00	1.463347e+00
## result.7470	3	1.463549e+00	1.463547e+00
## result.7471	3	1.463749e+00	1.463747e+00
## result.7472	3	1.463949e+00	1.463947e+00
## result.7473	3	1.464149e+00	1.464147e+00
## result.7474	3	1.464349e+00	1.464347e+00
## result.7475	3	1.464549e+00	1.464547e+00

## result.7476	3	1.464749e+00	1.464747e+00
## result.7477	3	1.464949e+00	1.464947e+00
## result.7478	3	1.465149e+00	1.465147e+00
## result.7479	3	1.465349e+00	1.465347e+00
## result.7480	3	1.465549e+00	1.465547e+00
## result.7481	3	1.465749e+00	1.465747e+00
## result.7482	3	1.465949e+00	1.465947e+00
## result.7483	3	1.466149e+00	1.466147e+00
## result.7484	3	1.466349e+00	1.466347e+00
## result.7485	3	1.466549e+00	1.466548e+00
## result.7486	3	1.466749e+00	1.466748e+00
## result.7487	3	1.466949e+00	1.466948e+00
## result.7488	3	1.467149e+00	1.467148e+00
## result.7489	3	1.467349e+00	1.467348e+00
## result.7490	3	1.467549e+00	1.467548e+00
## result.7491	3	1.467749e+00	1.467748e+00
## result.7492	3	1.467950e+00	1.467948e+00
## result.7493	3	1.468150e+00	1.468148e+00
## result.7494	3	1.468350e+00	1.468348e+00
## result.7495	3	1.468550e+00	1.468548e+00
## result.7496	3	1.468750e+00	1.468748e+00
## result.7497	3	1.468950e+00	1.468948e+00
## result.7498	3	1.469150e+00	1.469148e+00
## result.7499	3	1.469350e+00	1.469348e+00
## result.7500	3	1.469550e+00	1.469548e+00
## result.7501	3	1.469750e+00	1.469748e+00
## result.7502	3	1.469950e+00	1.469948e+00
## result.7503	3	1.470150e+00	1.470148e+00
## result.7504	3	1.470350e+00	1.470348e+00
## result.7505	3	1.470550e+00	1.470548e+00
## result.7506	3	1.470750e+00	1.470748e+00
## result.7507	3	1.470950e+00	1.470948e+00
## result.7508	3	1.471150e+00	1.471148e+00
## result.7509	3	1.471350e+00	1.471348e+00
## result.7510	3	1.471550e+00	1.471548e+00
## result.7511	3	1.471750e+00	1.471748e+00
## result.7512	3	1.471950e+00	1.471948e+00
## result.7513	3	1.472150e+00	1.472148e+00
## result.7514	3	1.472350e+00	1.472348e+00
## result.7515	3	1.472550e+00	1.472548e+00
## result.7516	3	1.472750e+00	1.472748e+00
## result.7517	3	1.472950e+00	1.472948e+00
## result.7518	3	1.473150e+00	1.473148e+00
## result.7519	3	1.473350e+00	1.473348e+00
## result.7520	3	1.473550e+00	1.473548e+00
## result.7521	3	1.473750e+00	1.473748e+00
## result.7522	3	1.473950e+00	1.473948e+00
## result.7523	3	1.474150e+00	1.474148e+00
## result.7524	3	1.474350e+00	1.474348e+00
## result.7525	3	1.474550e+00	1.474548e+00
## result.7526	3	1.474750e+00	1.474748e+00
## result.7527	3	1.474950e+00	1.474948e+00
## result.7528	3	1.475150e+00	1.475148e+00
## result.7529	3	1.475350e+00	1.475348e+00

## result.7530	3	1.475550e+00	1.475548e+00
## result.7531	3	1.475750e+00	1.475748e+00
## result.7532	3	1.475950e+00	1.475948e+00
## result.7533	3	1.476150e+00	1.476148e+00
## result.7534	3	1.476350e+00	1.476348e+00
## result.7535	3	1.476550e+00	1.476548e+00
## result.7536	3	1.476750e+00	1.476748e+00
## result.7537	3	1.476950e+00	1.476949e+00
## result.7538	3	1.477150e+00	1.477149e+00
## result.7539	3	1.477350e+00	1.477349e+00
## result.7540	3	1.477550e+00	1.477549e+00
## result.7541	3	1.477750e+00	1.477749e+00
## result.7542	3	1.477951e+00	1.477949e+00
## result.7543	3	1.478151e+00	1.478149e+00
## result.7544	3	1.478351e+00	1.478349e+00
## result.7545	3	1.478551e+00	1.478549e+00
## result.7546	3	1.478751e+00	1.478749e+00
## result.7547	3	1.478951e+00	1.478949e+00
## result.7548	3	1.479151e+00	1.479149e+00
## result.7549	3	1.479351e+00	1.479349e+00
## result.7550	3	1.479551e+00	1.479549e+00
## result.7551	3	1.479751e+00	1.479749e+00
## result.7552	3	1.479951e+00	1.479949e+00
## result.7553	3	1.480151e+00	1.480149e+00
## result.7554	3	1.480351e+00	1.480349e+00
## result.7555	3	1.480551e+00	1.480549e+00
## result.7556	3	1.480751e+00	1.480749e+00
## result.7557	3	1.480951e+00	1.480949e+00
## result.7558	3	1.481151e+00	1.481149e+00
## result.7559	3	1.481351e+00	1.481349e+00
## result.7560	3	1.481551e+00	1.481549e+00
## result.7561	3	1.481751e+00	1.481749e+00
## result.7562	3	1.481951e+00	1.481949e+00
## result.7563	3	1.482151e+00	1.482149e+00
## result.7564	3	1.482351e+00	1.482349e+00
## result.7565	3	1.482551e+00	1.482549e+00
## result.7566	3	1.482751e+00	1.482749e+00
## result.7567	3	1.482951e+00	1.482949e+00
## result.7568	3	1.483151e+00	1.483149e+00
## result.7569	3	1.483351e+00	1.483349e+00
## result.7570	3	1.483551e+00	1.483549e+00
## result.7571	3	1.483751e+00	1.483749e+00
## result.7572	3	1.483951e+00	1.483949e+00
## result.7573	3	1.484151e+00	1.484149e+00
## result.7574	3	1.484351e+00	1.484349e+00
## result.7575	3	1.484551e+00	1.484549e+00
## result.7576	3	1.484751e+00	1.484749e+00
## result.7577	3	1.484951e+00	1.484949e+00
## result.7578	3	1.485151e+00	1.485149e+00
## result.7579	3	1.485351e+00	1.485349e+00
## result.7580	3	1.485551e+00	1.485549e+00
## result.7581	3	1.485751e+00	1.485749e+00
## result.7582	3	1.485951e+00	1.485949e+00
## result.7583	3	1.486151e+00	1.486149e+00

## result.7584	3	1.486351e+00	1.486349e+00
## result.7585	3	1.486551e+00	1.486549e+00
## result.7586	3	1.486751e+00	1.486749e+00
## result.7587	3	1.486951e+00	1.486949e+00
## result.7588	3	1.487151e+00	1.487149e+00
## result.7589	3	1.487351e+00	1.487350e+00
## result.7590	3	1.487551e+00	1.487550e+00
## result.7591	3	1.487751e+00	1.487750e+00
## result.7592	3	1.487952e+00	1.487950e+00
## result.7593	3	1.488152e+00	1.488150e+00
## result.7594	3	1.488352e+00	1.488350e+00
## result.7595	3	1.488552e+00	1.488550e+00
## result.7596	3	1.488752e+00	1.488750e+00
## result.7597	3	1.488952e+00	1.488950e+00
## result.7598	3	1.489152e+00	1.489150e+00
## result.7599	3	1.489352e+00	1.489350e+00
## result.7600	3	1.489552e+00	1.489550e+00
## result.7601	3	1.489752e+00	1.489750e+00
## result.7602	3	1.489952e+00	1.489950e+00
## result.7603	3	1.490152e+00	1.490150e+00
## result.7604	3	1.490352e+00	1.490350e+00
## result.7605	3	1.490552e+00	1.490550e+00
## result.7606	3	1.490752e+00	1.490750e+00
## result.7607	3	1.490952e+00	1.490950e+00
## result.7608	3	1.491152e+00	1.491150e+00
## result.7609	3	1.491352e+00	1.491350e+00
## result.7610	3	1.491552e+00	1.491550e+00
## result.7611	3	1.491752e+00	1.491750e+00
## result.7612	3	1.491952e+00	1.491950e+00
## result.7613	3	1.492152e+00	1.492150e+00
## result.7614	3	1.492352e+00	1.492350e+00
## result.7615	3	1.492552e+00	1.492550e+00
## result.7616	3	1.492752e+00	1.492750e+00
## result.7617	3	1.492952e+00	1.492950e+00
## result.7618	3	1.493152e+00	1.493150e+00
## result.7619	3	1.493352e+00	1.493350e+00
## result.7620	3	1.493552e+00	1.493550e+00
## result.7621	3	1.493752e+00	1.493750e+00
## result.7622	3	1.493952e+00	1.493950e+00
## result.7623	3	1.494152e+00	1.494150e+00
## result.7624	3	1.494352e+00	1.494350e+00
## result.7625	3	1.494552e+00	1.494550e+00
## result.7626	3	1.494752e+00	1.494750e+00
## result.7627	3	1.494952e+00	1.494950e+00
## result.7628	3	1.495152e+00	1.495150e+00
## result.7629	3	1.495352e+00	1.495350e+00
## result.7630	3	1.495552e+00	1.495550e+00
## result.7631	3	1.495752e+00	1.495750e+00
## result.7632	3	1.495952e+00	1.495950e+00
## result.7633	3	1.496152e+00	1.496150e+00
## result.7634	3	1.496352e+00	1.496350e+00
## result.7635	3	1.496552e+00	1.496550e+00
## result.7636	3	1.496752e+00	1.496750e+00
## result.7637	3	1.496952e+00	1.496950e+00

## result.7638	3	1.497152e+00	1.497150e+00
## result.7639	3	1.497352e+00	1.497350e+00
## result.7640	3	1.497552e+00	1.497550e+00
## result.7641	3	1.497752e+00	1.497750e+00
## result.7642	3	1.497952e+00	1.497951e+00
## result.7643	3	1.498153e+00	1.498151e+00
## result.7644	3	1.498353e+00	1.498351e+00
## result.7645	3	1.498553e+00	1.498551e+00
## result.7646	3	1.498753e+00	1.498751e+00
## result.7647	3	1.498953e+00	1.498951e+00
## result.7648	3	1.499153e+00	1.499151e+00
## result.7649	3	1.499353e+00	1.499351e+00
## result.7650	3	1.499553e+00	1.499551e+00
## result.7651	3	1.499753e+00	1.499751e+00
## result.7652	3	1.499953e+00	1.499951e+00
## result.7653	3	1.500153e+00	1.500151e+00
## result.7654	3	1.500353e+00	1.500351e+00
## result.7655	3	1.500553e+00	1.500551e+00
## result.7656	3	1.500753e+00	1.500751e+00
## result.7657	3	1.500953e+00	1.500951e+00
## result.7658	3	1.501153e+00	1.501151e+00
## result.7659	3	1.501353e+00	1.501351e+00
## result.7660	3	1.501553e+00	1.501551e+00
## result.7661	3	1.501753e+00	1.501751e+00
## result.7662	3	1.501953e+00	1.501951e+00
## result.7663	3	1.502153e+00	1.502151e+00
## result.7664	3	1.502353e+00	1.502351e+00
## result.7665	3	1.502553e+00	1.502551e+00
## result.7666	3	1.502753e+00	1.502751e+00
## result.7667	3	1.502953e+00	1.502951e+00
## result.7668	3	1.503153e+00	1.503151e+00
## result.7669	3	1.503353e+00	1.503351e+00
## result.7670	3	1.503553e+00	1.503551e+00
## result.7671	3	1.503753e+00	1.503751e+00
## result.7672	3	1.503953e+00	1.503951e+00
## result.7673	3	1.504153e+00	1.504151e+00
## result.7674	3	1.504353e+00	1.504351e+00
## result.7675	3	1.504553e+00	1.504551e+00
## result.7676	3	1.504753e+00	1.504751e+00
## result.7677	3	1.504953e+00	1.504951e+00
## result.7678	3	1.505153e+00	1.505151e+00
## result.7679	3	1.505353e+00	1.505351e+00
## result.7680	3	1.505553e+00	1.505551e+00
## result.7681	3	1.505753e+00	1.505751e+00
## result.7682	3	1.505953e+00	1.505951e+00
## result.7683	3	1.506153e+00	1.506151e+00
## result.7684	3	1.506353e+00	1.506351e+00
## result.7685	3	1.506553e+00	1.506551e+00
## result.7686	3	1.506753e+00	1.506751e+00
## result.7687	3	1.506953e+00	1.506951e+00
## result.7688	3	1.507153e+00	1.507151e+00
## result.7689	3	1.507353e+00	1.507351e+00
## result.7690	3	1.507553e+00	1.507551e+00
## result.7691	3	1.507753e+00	1.507751e+00

## result.7692	3	1.507953e+00	1.507951e+00
## result.7693	3	1.508154e+00	1.508151e+00
## result.7694	3	1.508354e+00	1.508352e+00
## result.7695	3	1.508554e+00	1.508552e+00
## result.7696	3	1.508754e+00	1.508752e+00
## result.7697	3	1.508954e+00	1.508952e+00
## result.7698	3	1.509154e+00	1.509152e+00
## result.7699	3	1.509354e+00	1.509352e+00
## result.7700	3	1.509554e+00	1.509552e+00
## result.7701	3	1.509754e+00	1.509752e+00
## result.7702	3	1.509954e+00	1.509952e+00
## result.7703	3	1.510154e+00	1.510152e+00
## result.7704	3	1.510354e+00	1.510352e+00
## result.7705	3	1.510554e+00	1.510552e+00
## result.7706	3	1.510754e+00	1.510752e+00
## result.7707	3	1.510954e+00	1.510952e+00
## result.7708	3	1.511154e+00	1.511152e+00
## result.7709	3	1.511354e+00	1.511352e+00
## result.7710	3	1.511554e+00	1.511552e+00
## result.7711	3	1.511754e+00	1.511752e+00
## result.7712	3	1.511954e+00	1.511952e+00
## result.7713	3	1.512154e+00	1.512152e+00
## result.7714	3	1.512354e+00	1.512352e+00
## result.7715	3	1.512554e+00	1.512552e+00
## result.7716	3	1.512754e+00	1.512752e+00
## result.7717	3	1.512954e+00	1.512952e+00
## result.7718	3	1.513154e+00	1.513152e+00
## result.7719	3	1.513354e+00	1.513352e+00
## result.7720	3	1.513554e+00	1.513552e+00
## result.7721	3	1.513754e+00	1.513752e+00
## result.7722	3	1.513954e+00	1.513952e+00
## result.7723	3	1.514154e+00	1.514152e+00
## result.7724	3	1.514354e+00	1.514352e+00
## result.7725	3	1.514554e+00	1.514552e+00
## result.7726	3	1.514754e+00	1.514752e+00
## result.7727	3	1.514954e+00	1.514952e+00
## result.7728	3	1.515154e+00	1.515152e+00
## result.7729	3	1.515354e+00	1.515352e+00
## result.7730	3	1.515554e+00	1.515552e+00
## result.7731	3	1.515754e+00	1.515752e+00
## result.7732	3	1.515954e+00	1.515952e+00
## result.7733	3	1.516154e+00	1.516152e+00
## result.7734	3	1.516354e+00	1.516352e+00
## result.7735	3	1.516554e+00	1.516552e+00
## result.7736	3	1.516754e+00	1.516752e+00
## result.7737	3	1.516954e+00	1.516952e+00
## result.7738	3	1.517154e+00	1.517152e+00
## result.7739	3	1.517354e+00	1.517352e+00
## result.7740	3	1.517554e+00	1.517552e+00
## result.7741	3	1.517754e+00	1.517752e+00
## result.7742	3	1.517954e+00	1.517952e+00
## result.7743	3	1.518155e+00	1.518152e+00
## result.7744	3	1.518355e+00	1.518352e+00
## result.7745	3	1.518555e+00	1.518552e+00

## result.7746	3	1.518755e+00	1.518753e+00
## result.7747	3	1.518955e+00	1.518953e+00
## result.7748	3	1.519155e+00	1.519153e+00
## result.7749	3	1.519355e+00	1.519353e+00
## result.7750	3	1.519555e+00	1.519553e+00
## result.7751	3	1.519755e+00	1.519753e+00
## result.7752	3	1.519955e+00	1.519953e+00
## result.7753	3	1.520155e+00	1.520153e+00
## result.7754	3	1.520355e+00	1.520353e+00
## result.7755	3	1.520555e+00	1.520553e+00
## result.7756	3	1.520755e+00	1.520753e+00
## result.7757	3	1.520955e+00	1.520953e+00
## result.7758	3	1.521155e+00	1.521153e+00
## result.7759	3	1.521355e+00	1.521353e+00
## result.7760	3	1.521555e+00	1.521553e+00
## result.7761	3	1.521755e+00	1.521753e+00
## result.7762	3	1.521955e+00	1.521953e+00
## result.7763	3	1.522155e+00	1.522153e+00
## result.7764	3	1.522355e+00	1.522353e+00
## result.7765	3	1.522555e+00	1.522553e+00
## result.7766	3	1.522755e+00	1.522753e+00
## result.7767	3	1.522955e+00	1.522953e+00
## result.7768	3	1.523155e+00	1.523153e+00
## result.7769	3	1.523355e+00	1.523353e+00
## result.7770	3	1.523555e+00	1.523553e+00
## result.7771	3	1.523755e+00	1.523753e+00
## result.7772	3	1.523955e+00	1.523953e+00
## result.7773	3	1.524155e+00	1.524153e+00
## result.7774	3	1.524355e+00	1.524353e+00
## result.7775	3	1.524555e+00	1.524553e+00
## result.7776	3	1.524755e+00	1.524753e+00
## result.7777	3	1.524955e+00	1.524953e+00
## result.7778	3	1.525155e+00	1.525153e+00
## result.7779	3	1.525355e+00	1.525353e+00
## result.7780	3	1.525555e+00	1.525553e+00
## result.7781	3	1.525755e+00	1.525753e+00
## result.7782	3	1.525955e+00	1.525953e+00
## result.7783	3	1.526155e+00	1.526153e+00
## result.7784	3	1.526355e+00	1.526353e+00
## result.7785	3	1.526555e+00	1.526553e+00
## result.7786	3	1.526755e+00	1.526753e+00
## result.7787	3	1.526955e+00	1.526953e+00
## result.7788	3	1.527155e+00	1.527153e+00
## result.7789	3	1.527355e+00	1.527353e+00
## result.7790	3	1.527555e+00	1.527553e+00
## result.7791	3	1.527755e+00	1.527753e+00
## result.7792	3	1.527955e+00	1.527953e+00
## result.7793	3	1.528155e+00	1.528153e+00
## result.7794	3	1.528356e+00	1.528353e+00
## result.7795	3	1.528556e+00	1.528553e+00
## result.7796	3	1.528756e+00	1.528753e+00
## result.7797	3	1.528956e+00	1.528953e+00
## result.7798	3	1.529156e+00	1.529154e+00
## result.7799	3	1.529356e+00	1.529354e+00

## result.7800	3	1.529556e+00	1.529554e+00
## result.7801	3	1.529756e+00	1.529754e+00
## result.7802	3	1.529956e+00	1.529954e+00
## result.7803	3	1.530156e+00	1.530154e+00
## result.7804	3	1.530356e+00	1.530354e+00
## result.7805	3	1.530556e+00	1.530554e+00
## result.7806	3	1.530756e+00	1.530754e+00
## result.7807	3	1.530956e+00	1.530954e+00
## result.7808	3	1.531156e+00	1.531154e+00
## result.7809	3	1.531356e+00	1.531354e+00
## result.7810	3	1.531556e+00	1.531554e+00
## result.7811	3	1.531756e+00	1.531754e+00
## result.7812	3	1.531956e+00	1.531954e+00
## result.7813	3	1.532156e+00	1.532154e+00
## result.7814	3	1.532356e+00	1.532354e+00
## result.7815	3	1.532556e+00	1.532554e+00
## result.7816	3	1.532756e+00	1.532754e+00
## result.7817	3	1.532956e+00	1.532954e+00
## result.7818	3	1.533156e+00	1.533154e+00
## result.7819	3	1.533356e+00	1.533354e+00
## result.7820	3	1.533556e+00	1.533554e+00
## result.7821	3	1.533756e+00	1.533754e+00
## result.7822	3	1.533956e+00	1.533954e+00
## result.7823	3	1.534156e+00	1.534154e+00
## result.7824	3	1.534356e+00	1.534354e+00
## result.7825	3	1.534556e+00	1.534554e+00
## result.7826	3	1.534756e+00	1.534754e+00
## result.7827	3	1.534956e+00	1.534954e+00
## result.7828	3	1.535156e+00	1.535154e+00
## result.7829	3	1.535356e+00	1.535354e+00
## result.7830	3	1.535556e+00	1.535554e+00
## result.7831	3	1.535756e+00	1.535754e+00
## result.7832	3	1.535956e+00	1.535954e+00
## result.7833	3	1.536156e+00	1.536154e+00
## result.7834	3	1.536356e+00	1.536354e+00
## result.7835	3	1.536556e+00	1.536554e+00
## result.7836	3	1.536756e+00	1.536754e+00
## result.7837	3	1.536956e+00	1.536954e+00
## result.7838	3	1.537156e+00	1.537154e+00
## result.7839	3	1.537356e+00	1.537354e+00
## result.7840	3	1.537556e+00	1.537554e+00
## result.7841	3	1.537756e+00	1.537754e+00
## result.7842	3	1.537956e+00	1.537954e+00
## result.7843	3	1.538156e+00	1.538154e+00
## result.7844	3	1.538357e+00	1.538354e+00
## result.7845	3	1.538557e+00	1.538554e+00
## result.7846	3	1.538757e+00	1.538754e+00
## result.7847	3	1.538957e+00	1.538954e+00
## result.7848	3	1.539157e+00	1.539154e+00
## result.7849	3	1.539357e+00	1.539354e+00
## result.7850	3	1.539557e+00	1.539554e+00
## result.7851	3	1.539757e+00	1.539755e+00
## result.7852	3	1.539957e+00	1.539955e+00
## result.7853	3	1.540157e+00	1.540155e+00

## result.7854	3	1.540357e+00	1.540355e+00
## result.7855	3	1.540557e+00	1.540555e+00
## result.7856	3	1.540757e+00	1.540755e+00
## result.7857	3	1.540957e+00	1.540955e+00
## result.7858	3	1.541157e+00	1.541155e+00
## result.7859	3	1.541357e+00	1.541355e+00
## result.7860	3	1.541557e+00	1.541555e+00
## result.7861	3	1.541757e+00	1.541755e+00
## result.7862	3	1.541957e+00	1.541955e+00
## result.7863	3	1.542157e+00	1.542155e+00
## result.7864	3	1.542357e+00	1.542355e+00
## result.7865	3	1.542557e+00	1.542555e+00
## result.7866	3	1.542757e+00	1.542755e+00
## result.7867	3	1.542957e+00	1.542955e+00
## result.7868	3	1.543157e+00	1.543155e+00
## result.7869	3	1.543357e+00	1.543355e+00
## result.7870	3	1.543557e+00	1.543555e+00
## result.7871	3	1.543757e+00	1.543755e+00
## result.7872	3	1.543957e+00	1.543955e+00
## result.7873	3	1.544157e+00	1.544155e+00
## result.7874	3	1.544357e+00	1.544355e+00
## result.7875	3	1.544557e+00	1.544555e+00
## result.7876	3	1.544757e+00	1.544755e+00
## result.7877	3	1.544957e+00	1.544955e+00
## result.7878	3	1.545157e+00	1.545155e+00
## result.7879	3	1.545357e+00	1.545355e+00
## result.7880	3	1.545557e+00	1.545555e+00
## result.7881	3	1.545757e+00	1.545755e+00
## result.7882	3	1.545957e+00	1.545955e+00
## result.7883	3	1.546157e+00	1.546155e+00
## result.7884	3	1.546357e+00	1.546355e+00
## result.7885	3	1.546557e+00	1.546555e+00
## result.7886	3	1.546757e+00	1.546755e+00
## result.7887	3	1.546957e+00	1.546955e+00
## result.7888	3	1.547157e+00	1.547155e+00
## result.7889	3	1.547357e+00	1.547355e+00
## result.7890	3	1.547557e+00	1.547555e+00
## result.7891	3	1.547757e+00	1.547755e+00
## result.7892	3	1.547957e+00	1.547955e+00
## result.7893	3	1.548157e+00	1.548155e+00
## result.7894	3	1.548358e+00	1.548355e+00
## result.7895	3	1.548558e+00	1.548555e+00
## result.7896	3	1.548758e+00	1.548755e+00
## result.7897	3	1.548958e+00	1.548955e+00
## result.7898	3	1.549158e+00	1.549155e+00
## result.7899	3	1.549358e+00	1.549355e+00
## result.7900	3	1.549558e+00	1.549555e+00
## result.7901	3	1.549758e+00	1.549755e+00
## result.7902	3	1.549958e+00	1.549955e+00
## result.7903	3	1.550158e+00	1.550156e+00
## result.7904	3	1.550358e+00	1.550356e+00
## result.7905	3	1.550558e+00	1.550556e+00
## result.7906	3	1.550758e+00	1.550756e+00
## result.7907	3	1.550958e+00	1.550956e+00

## result.7908	3	1.551158e+00	1.551156e+00
## result.7909	3	1.551358e+00	1.551356e+00
## result.7910	3	1.551558e+00	1.551556e+00
## result.7911	3	1.551758e+00	1.551756e+00
## result.7912	3	1.551958e+00	1.551956e+00
## result.7913	3	1.552158e+00	1.552156e+00
## result.7914	3	1.552358e+00	1.552356e+00
## result.7915	3	1.552558e+00	1.552556e+00
## result.7916	3	1.552758e+00	1.552756e+00
## result.7917	3	1.552958e+00	1.552956e+00
## result.7918	3	1.553158e+00	1.553156e+00
## result.7919	3	1.553358e+00	1.553356e+00
## result.7920	3	1.553558e+00	1.553556e+00
## result.7921	3	1.553758e+00	1.553756e+00
## result.7922	3	1.553958e+00	1.553956e+00
## result.7923	3	1.554158e+00	1.554156e+00
## result.7924	3	1.554358e+00	1.554356e+00
## result.7925	3	1.554558e+00	1.554556e+00
## result.7926	3	1.554758e+00	1.554756e+00
## result.7927	3	1.554958e+00	1.554956e+00
## result.7928	3	1.555158e+00	1.555156e+00
## result.7929	3	1.555358e+00	1.555356e+00
## result.7930	3	1.555558e+00	1.555556e+00
## result.7931	3	1.555758e+00	1.555756e+00
## result.7932	3	1.555958e+00	1.555956e+00
## result.7933	3	1.556158e+00	1.556156e+00
## result.7934	3	1.556358e+00	1.556356e+00
## result.7935	3	1.556558e+00	1.556556e+00
## result.7936	3	1.556758e+00	1.556756e+00
## result.7937	3	1.556958e+00	1.556956e+00
## result.7938	3	1.557158e+00	1.557156e+00
## result.7939	3	1.557358e+00	1.557356e+00
## result.7940	3	1.557558e+00	1.557556e+00
## result.7941	3	1.557758e+00	1.557756e+00
## result.7942	3	1.557958e+00	1.557956e+00
## result.7943	3	1.558158e+00	1.558156e+00
## result.7944	3	1.558358e+00	1.558356e+00
## result.7945	3	1.558559e+00	1.558556e+00
## result.7946	3	1.558759e+00	1.558756e+00
## result.7947	3	1.558959e+00	1.558956e+00
## result.7948	3	1.559159e+00	1.559156e+00
## result.7949	3	1.559359e+00	1.559356e+00
## result.7950	3	1.559559e+00	1.559556e+00
## result.7951	3	1.559759e+00	1.559756e+00
## result.7952	3	1.559959e+00	1.559956e+00
## result.7953	3	1.560159e+00	1.560156e+00
## result.7954	3	1.560359e+00	1.560356e+00
## result.7955	3	1.560559e+00	1.560557e+00
## result.7956	3	1.560759e+00	1.560757e+00
## result.7957	3	1.560959e+00	1.560957e+00
## result.7958	3	1.561159e+00	1.561157e+00
## result.7959	3	1.561359e+00	1.561357e+00
## result.7960	3	1.561559e+00	1.561557e+00
## result.7961	3	1.561759e+00	1.561757e+00

## result.7962	3	1.561959e+00	1.561957e+00
## result.7963	3	1.562159e+00	1.562157e+00
## result.7964	3	1.562359e+00	1.562357e+00
## result.7965	3	1.562559e+00	1.562557e+00
## result.7966	3	1.562759e+00	1.562757e+00
## result.7967	3	1.562959e+00	1.562957e+00
## result.7968	3	1.563159e+00	1.563157e+00
## result.7969	3	1.563359e+00	1.563357e+00
## result.7970	3	1.563559e+00	1.563557e+00
## result.7971	3	1.563759e+00	1.563757e+00
## result.7972	3	1.563959e+00	1.563957e+00
## result.7973	3	1.564159e+00	1.564157e+00
## result.7974	3	1.564359e+00	1.564357e+00
## result.7975	3	1.564559e+00	1.564557e+00
## result.7976	3	1.564759e+00	1.564757e+00
## result.7977	3	1.564959e+00	1.564957e+00
## result.7978	3	1.565159e+00	1.565157e+00
## result.7979	3	1.565359e+00	1.565357e+00
## result.7980	3	1.565559e+00	1.565557e+00
## result.7981	3	1.565759e+00	1.565757e+00
## result.7982	3	1.565959e+00	1.565957e+00
## result.7983	3	1.566159e+00	1.566157e+00
## result.7984	3	1.566359e+00	1.566357e+00
## result.7985	3	1.566559e+00	1.566557e+00
## result.7986	3	1.566759e+00	1.566757e+00
## result.7987	3	1.566959e+00	1.566957e+00
## result.7988	3	1.567159e+00	1.567157e+00
## result.7989	3	1.567359e+00	1.567357e+00
## result.7990	3	1.567559e+00	1.567557e+00
## result.7991	3	1.567759e+00	1.567757e+00
## result.7992	3	1.567959e+00	1.567957e+00
## result.7993	3	1.568159e+00	1.568157e+00
## result.7994	3	1.568359e+00	1.568357e+00
## result.7995	3	1.568560e+00	1.568557e+00
## result.7996	3	1.568760e+00	1.568757e+00
## result.7997	3	1.568960e+00	1.568957e+00
## result.7998	3	1.569160e+00	1.569157e+00
## result.7999	3	1.569360e+00	1.569357e+00
## result.8000	3	1.569560e+00	1.569557e+00
## result.8001	3	1.569760e+00	1.569757e+00
## result.8002	3	1.569960e+00	1.569957e+00
## result.8003	3	1.570160e+00	1.570157e+00
## result.8004	3	1.570360e+00	1.570357e+00
## result.8005	3	1.570560e+00	1.570557e+00
## result.8006	3	1.570760e+00	1.570757e+00
## result.8007	3	1.570960e+00	1.570957e+00
## result.8008	3	1.571160e+00	1.571158e+00
## result.8009	3	1.571360e+00	1.571358e+00
## result.8010	3	1.571560e+00	1.571558e+00
## result.8011	3	1.571760e+00	1.571758e+00
## result.8012	3	1.571960e+00	1.571958e+00
## result.8013	3	1.572160e+00	1.572158e+00
## result.8014	3	1.572360e+00	1.572358e+00
## result.8015	3	1.572560e+00	1.572558e+00

## result.8016	3	1.572760e+00	1.572758e+00
## result.8017	3	1.572960e+00	1.572958e+00
## result.8018	3	1.573160e+00	1.573158e+00
## result.8019	3	1.573360e+00	1.573358e+00
## result.8020	3	1.573560e+00	1.573558e+00
## result.8021	3	1.573760e+00	1.573758e+00
## result.8022	3	1.573960e+00	1.573958e+00
## result.8023	3	1.574160e+00	1.574158e+00
## result.8024	3	1.574360e+00	1.574358e+00
## result.8025	3	1.574560e+00	1.574558e+00
## result.8026	3	1.574760e+00	1.574758e+00
## result.8027	3	1.574960e+00	1.574958e+00
## result.8028	3	1.575160e+00	1.575158e+00
## result.8029	3	1.575360e+00	1.575358e+00
## result.8030	3	1.575560e+00	1.575558e+00
## result.8031	3	1.575760e+00	1.575758e+00
## result.8032	3	1.575960e+00	1.575958e+00
## result.8033	3	1.576160e+00	1.576158e+00
## result.8034	3	1.576360e+00	1.576358e+00
## result.8035	3	1.576560e+00	1.576558e+00
## result.8036	3	1.576760e+00	1.576758e+00
## result.8037	3	1.576960e+00	1.576958e+00
## result.8038	3	1.577160e+00	1.577158e+00
## result.8039	3	1.577360e+00	1.577358e+00
## result.8040	3	1.577560e+00	1.577558e+00
## result.8041	3	1.577760e+00	1.577758e+00
## result.8042	3	1.577960e+00	1.577958e+00
## result.8043	3	1.578160e+00	1.578158e+00
## result.8044	3	1.578360e+00	1.578358e+00
## result.8045	3	1.578561e+00	1.578558e+00
## result.8046	3	1.578761e+00	1.578758e+00
## result.8047	3	1.578961e+00	1.578958e+00
## result.8048	3	1.579161e+00	1.579158e+00
## result.8049	3	1.579361e+00	1.579358e+00
## result.8050	3	1.579561e+00	1.579558e+00
## result.8051	3	1.579761e+00	1.579758e+00
## result.8052	3	1.579961e+00	1.579958e+00
## result.8053	3	1.580161e+00	1.580158e+00
## result.8054	3	1.580361e+00	1.580358e+00
## result.8055	3	1.580561e+00	1.580558e+00
## result.8056	3	1.580761e+00	1.580758e+00
## result.8057	3	1.580961e+00	1.580958e+00
## result.8058	3	1.581161e+00	1.581158e+00
## result.8059	3	1.581361e+00	1.581358e+00
## result.8060	3	1.581561e+00	1.581559e+00
## result.8061	3	1.581761e+00	1.581759e+00
## result.8062	3	1.581961e+00	1.581959e+00
## result.8063	3	1.582161e+00	1.582159e+00
## result.8064	3	1.582361e+00	1.582359e+00
## result.8065	3	1.582561e+00	1.582559e+00
## result.8066	3	1.582761e+00	1.582759e+00
## result.8067	3	1.582961e+00	1.582959e+00
## result.8068	3	1.583161e+00	1.583159e+00
## result.8069	3	1.583361e+00	1.583359e+00

## result.8070	3	1.583561e+00	1.583559e+00
## result.8071	3	1.583761e+00	1.583759e+00
## result.8072	3	1.583961e+00	1.583959e+00
## result.8073	3	1.584161e+00	1.584159e+00
## result.8074	3	1.584361e+00	1.584359e+00
## result.8075	3	1.584561e+00	1.584559e+00
## result.8076	3	1.584761e+00	1.584759e+00
## result.8077	3	1.584961e+00	1.584959e+00
## result.8078	3	1.585161e+00	1.585159e+00
## result.8079	3	1.585361e+00	1.585359e+00
## result.8080	3	1.585561e+00	1.585559e+00
## result.8081	3	1.585761e+00	1.585759e+00
## result.8082	3	1.585961e+00	1.585959e+00
## result.8083	3	1.586161e+00	1.586159e+00
## result.8084	3	1.586361e+00	1.586359e+00
## result.8085	3	1.586561e+00	1.586559e+00
## result.8086	3	1.586761e+00	1.586759e+00
## result.8087	3	1.586961e+00	1.586959e+00
## result.8088	3	1.587161e+00	1.587159e+00
## result.8089	3	1.587361e+00	1.587359e+00
## result.8090	3	1.587561e+00	1.587559e+00
## result.8091	3	1.587761e+00	1.587759e+00
## result.8092	3	1.587961e+00	1.587959e+00
## result.8093	3	1.588161e+00	1.588159e+00
## result.8094	3	1.588361e+00	1.588359e+00
## result.8095	3	1.588561e+00	1.588559e+00
## result.8096	3	1.588762e+00	1.588759e+00
## result.8097	3	1.588962e+00	1.588959e+00
## result.8098	3	1.589162e+00	1.589159e+00
## result.8099	3	1.589362e+00	1.589359e+00
## result.8100	3	1.589562e+00	1.589559e+00
## result.8101	3	1.589762e+00	1.589759e+00
## result.8102	3	1.589962e+00	1.589959e+00
## result.8103	3	1.590162e+00	1.590159e+00
## result.8104	3	1.590362e+00	1.590359e+00
## result.8105	3	1.590562e+00	1.590559e+00
## result.8106	3	1.590762e+00	1.590759e+00
## result.8107	3	1.590962e+00	1.590959e+00
## result.8108	3	1.591162e+00	1.591159e+00
## result.8109	3	1.591362e+00	1.591359e+00
## result.8110	3	1.591562e+00	1.591559e+00
## result.8111	3	1.591762e+00	1.591759e+00
## result.8112	3	1.591962e+00	1.591960e+00
## result.8113	3	1.592162e+00	1.592160e+00
## result.8114	3	1.592362e+00	1.592360e+00
## result.8115	3	1.592562e+00	1.592560e+00
## result.8116	3	1.592762e+00	1.592760e+00
## result.8117	3	1.592962e+00	1.592960e+00
## result.8118	3	1.593162e+00	1.593160e+00
## result.8119	3	1.593362e+00	1.593360e+00
## result.8120	3	1.593562e+00	1.593560e+00
## result.8121	3	1.593762e+00	1.593760e+00
## result.8122	3	1.593962e+00	1.593960e+00
## result.8123	3	1.594162e+00	1.594160e+00

## result.8124	3	1.594362e+00	1.594360e+00
## result.8125	3	1.594562e+00	1.594560e+00
## result.8126	3	1.594762e+00	1.594760e+00
## result.8127	3	1.594962e+00	1.594960e+00
## result.8128	3	1.595162e+00	1.595160e+00
## result.8129	3	1.595362e+00	1.595360e+00
## result.8130	3	1.595562e+00	1.595560e+00
## result.8131	3	1.595762e+00	1.595760e+00
## result.8132	3	1.595962e+00	1.595960e+00
## result.8133	3	1.596162e+00	1.596160e+00
## result.8134	3	1.596362e+00	1.596360e+00
## result.8135	3	1.596562e+00	1.596560e+00
## result.8136	3	1.596762e+00	1.596760e+00
## result.8137	3	1.596962e+00	1.596960e+00
## result.8138	3	1.597162e+00	1.597160e+00
## result.8139	3	1.597362e+00	1.597360e+00
## result.8140	3	1.597562e+00	1.597560e+00
## result.8141	3	1.597762e+00	1.597760e+00
## result.8142	3	1.597962e+00	1.597960e+00
## result.8143	3	1.598162e+00	1.598160e+00
## result.8144	3	1.598362e+00	1.598360e+00
## result.8145	3	1.598562e+00	1.598560e+00
## result.8146	3	1.598763e+00	1.598760e+00
## result.8147	3	1.598963e+00	1.598960e+00
## result.8148	3	1.599163e+00	1.599160e+00
## result.8149	3	1.599363e+00	1.599360e+00
## result.8150	3	1.599563e+00	1.599560e+00
## result.8151	3	1.599763e+00	1.599760e+00
## result.8152	3	1.599963e+00	1.599960e+00
## result.8153	3	1.600163e+00	1.600160e+00
## result.8154	3	1.600363e+00	1.600360e+00
## result.8155	3	1.600563e+00	1.600560e+00
## result.8156	3	1.600763e+00	1.600760e+00
## result.8157	3	1.600963e+00	1.600960e+00
## result.8158	3	1.601163e+00	1.601160e+00
## result.8159	3	1.601363e+00	1.601360e+00
## result.8160	3	1.601563e+00	1.601560e+00
## result.8161	3	1.601763e+00	1.601760e+00
## result.8162	3	1.601963e+00	1.601960e+00
## result.8163	3	1.602163e+00	1.602160e+00
## result.8164	3	1.602363e+00	1.602361e+00
## result.8165	3	1.602563e+00	1.602561e+00
## result.8166	3	1.602763e+00	1.602761e+00
## result.8167	3	1.602963e+00	1.602961e+00
## result.8168	3	1.603163e+00	1.603161e+00
## result.8169	3	1.603363e+00	1.603361e+00
## result.8170	3	1.603563e+00	1.603561e+00
## result.8171	3	1.603763e+00	1.603761e+00
## result.8172	3	1.603963e+00	1.603961e+00
## result.8173	3	1.604163e+00	1.604161e+00
## result.8174	3	1.604363e+00	1.604361e+00
## result.8175	3	1.604563e+00	1.604561e+00
## result.8176	3	1.604763e+00	1.604761e+00
## result.8177	3	1.604963e+00	1.604961e+00

## result.8178	3	1.605163e+00	1.605161e+00
## result.8179	3	1.605363e+00	1.605361e+00
## result.8180	3	1.605563e+00	1.605561e+00
## result.8181	3	1.605763e+00	1.605761e+00
## result.8182	3	1.605963e+00	1.605961e+00
## result.8183	3	1.606163e+00	1.606161e+00
## result.8184	3	1.606363e+00	1.606361e+00
## result.8185	3	1.606563e+00	1.606561e+00
## result.8186	3	1.606763e+00	1.606761e+00
## result.8187	3	1.606963e+00	1.606961e+00
## result.8188	3	1.607163e+00	1.607161e+00
## result.8189	3	1.607363e+00	1.607361e+00
## result.8190	3	1.607563e+00	1.607561e+00
## result.8191	3	1.607763e+00	1.607761e+00
## result.8192	3	1.607963e+00	1.607961e+00
## result.8193	3	1.608163e+00	1.608161e+00
## result.8194	3	1.608363e+00	1.608361e+00
## result.8195	3	1.608563e+00	1.608561e+00
## result.8196	3	1.608764e+00	1.608761e+00
## result.8197	3	1.608964e+00	1.608961e+00
## result.8198	3	1.609164e+00	1.609161e+00
## result.8199	3	1.609364e+00	1.609361e+00
## result.8200	3	1.609564e+00	1.609561e+00
## result.8201	3	1.609764e+00	1.609761e+00
## result.8202	3	1.609964e+00	1.609961e+00
## result.8203	3	1.610164e+00	1.610161e+00
## result.8204	3	1.610364e+00	1.610361e+00
## result.8205	3	1.610564e+00	1.610561e+00
## result.8206	3	1.610764e+00	1.610761e+00
## result.8207	3	1.610964e+00	1.610961e+00
## result.8208	3	1.611164e+00	1.611161e+00
## result.8209	3	1.611364e+00	1.611361e+00
## result.8210	3	1.611564e+00	1.611561e+00
## result.8211	3	1.611764e+00	1.611761e+00
## result.8212	3	1.611964e+00	1.611961e+00
## result.8213	3	1.612164e+00	1.612161e+00
## result.8214	3	1.612364e+00	1.612361e+00
## result.8215	3	1.612564e+00	1.612561e+00
## result.8216	3	1.612764e+00	1.612761e+00
## result.8217	3	1.612964e+00	1.612962e+00
## result.8218	3	1.613164e+00	1.613162e+00
## result.8219	3	1.613364e+00	1.613362e+00
## result.8220	3	1.613564e+00	1.613562e+00
## result.8221	3	1.613764e+00	1.613762e+00
## result.8222	3	1.613964e+00	1.613962e+00
## result.8223	3	1.614164e+00	1.614162e+00
## result.8224	3	1.614364e+00	1.614362e+00
## result.8225	3	1.614564e+00	1.614562e+00
## result.8226	3	1.614764e+00	1.614762e+00
## result.8227	3	1.614964e+00	1.614962e+00
## result.8228	3	1.615164e+00	1.615162e+00
## result.8229	3	1.615364e+00	1.615362e+00
## result.8230	3	1.615564e+00	1.615562e+00
## result.8231	3	1.615764e+00	1.615762e+00

## result.8232	3	1.615964e+00	1.615962e+00
## result.8233	3	1.616164e+00	1.616162e+00
## result.8234	3	1.616364e+00	1.616362e+00
## result.8235	3	1.616564e+00	1.616562e+00
## result.8236	3	1.616764e+00	1.616762e+00
## result.8237	3	1.616964e+00	1.616962e+00
## result.8238	3	1.617164e+00	1.617162e+00
## result.8239	3	1.617364e+00	1.617362e+00
## result.8240	3	1.617564e+00	1.617562e+00
## result.8241	3	1.617764e+00	1.617762e+00
## result.8242	3	1.617964e+00	1.617962e+00
## result.8243	3	1.618164e+00	1.618162e+00
## result.8244	3	1.618364e+00	1.618362e+00
## result.8245	3	1.618564e+00	1.618562e+00
## result.8246	3	1.618764e+00	1.618762e+00
## result.8247	3	1.618965e+00	1.618962e+00
## result.8248	3	1.619165e+00	1.619162e+00
## result.8249	3	1.619365e+00	1.619362e+00
## result.8250	3	1.619565e+00	1.619562e+00
## result.8251	3	1.619765e+00	1.619762e+00
## result.8252	3	1.619965e+00	1.619962e+00
## result.8253	3	1.620165e+00	1.620162e+00
## result.8254	3	1.620365e+00	1.620362e+00
## result.8255	3	1.620565e+00	1.620562e+00
## result.8256	3	1.620765e+00	1.620762e+00
## result.8257	3	1.620965e+00	1.620962e+00
## result.8258	3	1.621165e+00	1.621162e+00
## result.8259	3	1.621365e+00	1.621362e+00
## result.8260	3	1.621565e+00	1.621562e+00
## result.8261	3	1.621765e+00	1.621762e+00
## result.8262	3	1.621965e+00	1.621962e+00
## result.8263	3	1.622165e+00	1.622162e+00
## result.8264	3	1.622365e+00	1.622362e+00
## result.8265	3	1.622565e+00	1.622562e+00
## result.8266	3	1.622765e+00	1.622762e+00
## result.8267	3	1.622965e+00	1.622962e+00
## result.8268	3	1.623165e+00	1.623162e+00
## result.8269	3	1.623365e+00	1.623363e+00
## result.8270	3	1.623565e+00	1.623563e+00
## result.8271	3	1.623765e+00	1.623763e+00
## result.8272	3	1.623965e+00	1.623963e+00
## result.8273	3	1.624165e+00	1.624163e+00
## result.8274	3	1.624365e+00	1.624363e+00
## result.8275	3	1.624565e+00	1.624563e+00
## result.8276	3	1.624765e+00	1.624763e+00
## result.8277	3	1.624965e+00	1.624963e+00
## result.8278	3	1.625165e+00	1.625163e+00
## result.8279	3	1.625365e+00	1.625363e+00
## result.8280	3	1.625565e+00	1.625563e+00
## result.8281	3	1.625765e+00	1.625763e+00
## result.8282	3	1.625965e+00	1.625963e+00
## result.8283	3	1.626165e+00	1.626163e+00
## result.8284	3	1.626365e+00	1.626363e+00
## result.8285	3	1.626565e+00	1.626563e+00

## result.8286	3	1.626765e+00	1.626763e+00
## result.8287	3	1.626965e+00	1.626963e+00
## result.8288	3	1.627165e+00	1.627163e+00
## result.8289	3	1.627365e+00	1.627363e+00
## result.8290	3	1.627565e+00	1.627563e+00
## result.8291	3	1.627765e+00	1.627763e+00
## result.8292	3	1.627965e+00	1.627963e+00
## result.8293	3	1.628165e+00	1.628163e+00
## result.8294	3	1.628365e+00	1.628363e+00
## result.8295	3	1.628565e+00	1.628563e+00
## result.8296	3	1.628765e+00	1.628763e+00
## result.8297	3	1.628966e+00	1.628963e+00
## result.8298	3	1.629166e+00	1.629163e+00
## result.8299	3	1.629366e+00	1.629363e+00
## result.8300	3	1.629566e+00	1.629563e+00
## result.8301	3	1.629766e+00	1.629763e+00
## result.8302	3	1.629966e+00	1.629963e+00
## result.8303	3	1.630166e+00	1.630163e+00
## result.8304	3	1.630366e+00	1.630363e+00
## result.8305	3	1.630566e+00	1.630563e+00
## result.8306	3	1.630766e+00	1.630763e+00
## result.8307	3	1.630966e+00	1.630963e+00
## result.8308	3	1.631166e+00	1.631163e+00
## result.8309	3	1.631366e+00	1.631363e+00
## result.8310	3	1.631566e+00	1.631563e+00
## result.8311	3	1.631766e+00	1.631763e+00
## result.8312	3	1.631966e+00	1.631963e+00
## result.8313	3	1.632166e+00	1.632163e+00
## result.8314	3	1.632366e+00	1.632363e+00
## result.8315	3	1.632566e+00	1.632563e+00
## result.8316	3	1.632766e+00	1.632763e+00
## result.8317	3	1.632966e+00	1.632963e+00
## result.8318	3	1.633166e+00	1.633163e+00
## result.8319	3	1.633366e+00	1.633363e+00
## result.8320	3	1.633566e+00	1.633563e+00
## result.8321	3	1.633766e+00	1.633764e+00
## result.8322	3	1.633966e+00	1.633964e+00
## result.8323	3	1.634166e+00	1.634164e+00
## result.8324	3	1.634366e+00	1.634364e+00
## result.8325	3	1.634566e+00	1.634564e+00
## result.8326	3	1.634766e+00	1.634764e+00
## result.8327	3	1.634966e+00	1.634964e+00
## result.8328	3	1.635166e+00	1.635164e+00
## result.8329	3	1.635366e+00	1.635364e+00
## result.8330	3	1.635566e+00	1.635564e+00
## result.8331	3	1.635766e+00	1.635764e+00
## result.8332	3	1.635966e+00	1.635964e+00
## result.8333	3	1.636166e+00	1.636164e+00
## result.8334	3	1.636366e+00	1.636364e+00
## result.8335	3	1.636566e+00	1.636564e+00
## result.8336	3	1.636766e+00	1.636764e+00
## result.8337	3	1.636966e+00	1.636964e+00
## result.8338	3	1.637166e+00	1.637164e+00
## result.8339	3	1.637366e+00	1.637364e+00

## result.8340	3	1.637566e+00	1.637564e+00
## result.8341	3	1.637766e+00	1.637764e+00
## result.8342	3	1.637966e+00	1.637964e+00
## result.8343	3	1.638166e+00	1.638164e+00
## result.8344	3	1.638366e+00	1.638364e+00
## result.8345	3	1.638566e+00	1.638564e+00
## result.8346	3	1.638766e+00	1.638764e+00
## result.8347	3	1.638967e+00	1.638964e+00
## result.8348	3	1.639167e+00	1.639164e+00
## result.8349	3	1.639367e+00	1.639364e+00
## result.8350	3	1.639567e+00	1.639564e+00
## result.8351	3	1.639767e+00	1.639764e+00
## result.8352	3	1.639967e+00	1.639964e+00
## result.8353	3	1.640167e+00	1.640164e+00
## result.8354	3	1.640367e+00	1.640364e+00
## result.8355	3	1.640567e+00	1.640564e+00
## result.8356	3	1.640767e+00	1.640764e+00
## result.8357	3	1.640967e+00	1.640964e+00
## result.8358	3	1.641167e+00	1.641164e+00
## result.8359	3	1.641367e+00	1.641364e+00
## result.8360	3	1.641567e+00	1.641564e+00
## result.8361	3	1.641767e+00	1.641764e+00
## result.8362	3	1.641967e+00	1.641964e+00
## result.8363	3	1.642167e+00	1.642164e+00
## result.8364	3	1.642367e+00	1.642364e+00
## result.8365	3	1.642567e+00	1.642564e+00
## result.8366	3	1.642767e+00	1.642764e+00
## result.8367	3	1.642967e+00	1.642964e+00
## result.8368	3	1.643167e+00	1.643164e+00
## result.8369	3	1.643367e+00	1.643364e+00
## result.8370	3	1.643567e+00	1.643564e+00
## result.8371	3	1.643767e+00	1.643764e+00
## result.8372	3	1.643967e+00	1.643964e+00
## result.8373	3	1.644167e+00	1.644164e+00
## result.8374	3	1.644367e+00	1.644365e+00
## result.8375	3	1.644567e+00	1.644565e+00
## result.8376	3	1.644767e+00	1.644765e+00
## result.8377	3	1.644967e+00	1.644965e+00
## result.8378	3	1.645167e+00	1.645165e+00
## result.8379	3	1.645367e+00	1.645365e+00
## result.8380	3	1.645567e+00	1.645565e+00
## result.8381	3	1.645767e+00	1.645765e+00
## result.8382	3	1.645967e+00	1.645965e+00
## result.8383	3	1.646167e+00	1.646165e+00
## result.8384	3	1.646367e+00	1.646365e+00
## result.8385	3	1.646567e+00	1.646565e+00
## result.8386	3	1.646767e+00	1.646765e+00
## result.8387	3	1.646967e+00	1.646965e+00
## result.8388	3	1.647167e+00	1.647165e+00
## result.8389	3	1.647367e+00	1.647365e+00
## result.8390	3	1.647567e+00	1.647565e+00
## result.8391	3	1.647767e+00	1.647765e+00
## result.8392	3	1.647967e+00	1.647965e+00
## result.8393	3	1.648167e+00	1.648165e+00

## result.8394	3	1.648367e+00	1.648365e+00
## result.8395	3	1.648567e+00	1.648565e+00
## result.8396	3	1.648767e+00	1.648765e+00
## result.8397	3	1.648967e+00	1.648965e+00
## result.8398	3	1.649168e+00	1.649165e+00
## result.8399	3	1.649368e+00	1.649365e+00
## result.8400	3	1.649568e+00	1.649565e+00
## result.8401	3	1.649768e+00	1.649765e+00
## result.8402	3	1.649968e+00	1.649965e+00
## result.8403	3	1.650168e+00	1.650165e+00
## result.8404	3	1.650368e+00	1.650365e+00
## result.8405	3	1.650568e+00	1.650565e+00
## result.8406	3	1.650768e+00	1.650765e+00
## result.8407	3	1.650968e+00	1.650965e+00
## result.8408	3	1.651168e+00	1.651165e+00
## result.8409	3	1.651368e+00	1.651365e+00
## result.8410	3	1.651568e+00	1.651565e+00
## result.8411	3	1.651768e+00	1.651765e+00
## result.8412	3	1.651968e+00	1.651965e+00
## result.8413	3	1.652168e+00	1.652165e+00
## result.8414	3	1.652368e+00	1.652365e+00
## result.8415	3	1.652568e+00	1.652565e+00
## result.8416	3	1.652768e+00	1.652765e+00
## result.8417	3	1.652968e+00	1.652965e+00
## result.8418	3	1.653168e+00	1.653165e+00
## result.8419	3	1.653368e+00	1.653365e+00
## result.8420	3	1.653568e+00	1.653565e+00
## result.8421	3	1.653768e+00	1.653765e+00
## result.8422	3	1.653968e+00	1.653965e+00
## result.8423	3	1.654168e+00	1.654165e+00
## result.8424	3	1.654368e+00	1.654365e+00
## result.8425	3	1.654568e+00	1.654565e+00
## result.8426	3	1.654768e+00	1.654766e+00
## result.8427	3	1.654968e+00	1.654966e+00
## result.8428	3	1.655168e+00	1.655166e+00
## result.8429	3	1.655368e+00	1.655366e+00
## result.8430	3	1.655568e+00	1.655566e+00
## result.8431	3	1.655768e+00	1.655766e+00
## result.8432	3	1.655968e+00	1.655966e+00
## result.8433	3	1.656168e+00	1.656166e+00
## result.8434	3	1.656368e+00	1.656366e+00
## result.8435	3	1.656568e+00	1.656566e+00
## result.8436	3	1.656768e+00	1.656766e+00
## result.8437	3	1.656968e+00	1.656966e+00
## result.8438	3	1.657168e+00	1.657166e+00
## result.8439	3	1.657368e+00	1.657366e+00
## result.8440	3	1.657568e+00	1.657566e+00
## result.8441	3	1.657768e+00	1.657766e+00
## result.8442	3	1.657968e+00	1.657966e+00
## result.8443	3	1.658168e+00	1.658166e+00
## result.8444	3	1.658368e+00	1.658366e+00
## result.8445	3	1.658568e+00	1.658566e+00
## result.8446	3	1.658768e+00	1.658766e+00
## result.8447	3	1.658968e+00	1.658966e+00

## result.8448	3	1.659169e+00	1.659166e+00
## result.8449	3	1.659369e+00	1.659366e+00
## result.8450	3	1.659569e+00	1.659566e+00
## result.8451	3	1.659769e+00	1.659766e+00
## result.8452	3	1.659969e+00	1.659966e+00
## result.8453	3	1.660169e+00	1.660166e+00
## result.8454	3	1.660369e+00	1.660366e+00
## result.8455	3	1.660569e+00	1.660566e+00
## result.8456	3	1.660769e+00	1.660766e+00
## result.8457	3	1.660969e+00	1.660966e+00
## result.8458	3	1.661169e+00	1.661166e+00
## result.8459	3	1.661369e+00	1.661366e+00
## result.8460	3	1.661569e+00	1.661566e+00
## result.8461	3	1.661769e+00	1.661766e+00
## result.8462	3	1.661969e+00	1.661966e+00
## result.8463	3	1.662169e+00	1.662166e+00
## result.8464	3	1.662369e+00	1.662366e+00
## result.8465	3	1.662569e+00	1.662566e+00
## result.8466	3	1.662769e+00	1.662766e+00
## result.8467	3	1.662969e+00	1.662966e+00
## result.8468	3	1.663169e+00	1.663166e+00
## result.8469	3	1.663369e+00	1.663366e+00
## result.8470	3	1.663569e+00	1.663566e+00
## result.8471	3	1.663769e+00	1.663766e+00
## result.8472	3	1.663969e+00	1.663966e+00
## result.8473	3	1.664169e+00	1.664166e+00
## result.8474	3	1.664369e+00	1.664366e+00
## result.8475	3	1.664569e+00	1.664566e+00
## result.8476	3	1.664769e+00	1.664766e+00
## result.8477	3	1.664969e+00	1.664966e+00
## result.8478	3	1.665169e+00	1.665167e+00
## result.8479	3	1.665369e+00	1.665367e+00
## result.8480	3	1.665569e+00	1.665567e+00
## result.8481	3	1.665769e+00	1.665767e+00
## result.8482	3	1.665969e+00	1.665967e+00
## result.8483	3	1.666169e+00	1.666167e+00
## result.8484	3	1.666369e+00	1.666367e+00
## result.8485	3	1.666569e+00	1.666567e+00
## result.8486	3	1.666769e+00	1.666767e+00
## result.8487	3	1.666969e+00	1.666967e+00
## result.8488	3	1.667169e+00	1.667167e+00
## result.8489	3	1.667369e+00	1.667367e+00
## result.8490	3	1.667569e+00	1.667567e+00
## result.8491	3	1.667769e+00	1.667767e+00
## result.8492	3	1.667969e+00	1.667967e+00
## result.8493	3	1.668169e+00	1.668167e+00
## result.8494	3	1.668369e+00	1.668367e+00
## result.8495	3	1.668569e+00	1.668567e+00
## result.8496	3	1.668769e+00	1.668767e+00
## result.8497	3	1.668969e+00	1.668967e+00
## result.8498	3	1.669170e+00	1.669167e+00
## result.8499	3	1.669370e+00	1.669367e+00
## result.8500	3	1.669570e+00	1.669567e+00
## result.8501	3	1.669770e+00	1.669767e+00

## result.8502	3	1.669970e+00	1.669967e+00
## result.8503	3	1.670170e+00	1.670167e+00
## result.8504	3	1.670370e+00	1.670367e+00
## result.8505	3	1.670570e+00	1.670567e+00
## result.8506	3	1.670770e+00	1.670767e+00
## result.8507	3	1.670970e+00	1.670967e+00
## result.8508	3	1.671170e+00	1.671167e+00
## result.8509	3	1.671370e+00	1.671367e+00
## result.8510	3	1.671570e+00	1.671567e+00
## result.8511	3	1.671770e+00	1.671767e+00
## result.8512	3	1.671970e+00	1.671967e+00
## result.8513	3	1.672170e+00	1.672167e+00
## result.8514	3	1.672370e+00	1.672367e+00
## result.8515	3	1.672570e+00	1.672567e+00
## result.8516	3	1.672770e+00	1.672767e+00
## result.8517	3	1.672970e+00	1.672967e+00
## result.8518	3	1.673170e+00	1.673167e+00
## result.8519	3	1.673370e+00	1.673367e+00
## result.8520	3	1.673570e+00	1.673567e+00
## result.8521	3	1.673770e+00	1.673767e+00
## result.8522	3	1.673970e+00	1.673967e+00
## result.8523	3	1.674170e+00	1.674167e+00
## result.8524	3	1.674370e+00	1.674367e+00
## result.8525	3	1.674570e+00	1.674567e+00
## result.8526	3	1.674770e+00	1.674767e+00
## result.8527	3	1.674970e+00	1.674967e+00
## result.8528	3	1.675170e+00	1.675167e+00
## result.8529	3	1.675370e+00	1.675367e+00
## result.8530	3	1.675570e+00	1.675567e+00
## result.8531	3	1.675770e+00	1.675768e+00
## result.8532	3	1.675970e+00	1.675968e+00
## result.8533	3	1.676170e+00	1.676168e+00
## result.8534	3	1.676370e+00	1.676368e+00
## result.8535	3	1.676570e+00	1.676568e+00
## result.8536	3	1.676770e+00	1.676768e+00
## result.8537	3	1.676970e+00	1.676968e+00
## result.8538	3	1.677170e+00	1.677168e+00
## result.8539	3	1.677370e+00	1.677368e+00
## result.8540	3	1.677570e+00	1.677568e+00
## result.8541	3	1.677770e+00	1.677768e+00
## result.8542	3	1.677970e+00	1.677968e+00
## result.8543	3	1.678170e+00	1.678168e+00
## result.8544	3	1.678370e+00	1.678368e+00
## result.8545	3	1.678570e+00	1.678568e+00
## result.8546	3	1.678770e+00	1.678768e+00
## result.8547	3	1.678970e+00	1.678968e+00
## result.8548	3	1.679170e+00	1.679168e+00
## result.8549	3	1.679371e+00	1.679368e+00
## result.8550	3	1.679571e+00	1.679568e+00
## result.8551	3	1.679771e+00	1.679768e+00
## result.8552	3	1.679971e+00	1.679968e+00
## result.8553	3	1.680171e+00	1.680168e+00
## result.8554	3	1.680371e+00	1.680368e+00
## result.8555	3	1.680571e+00	1.680568e+00

## result.8556	3	1.680771e+00	1.680768e+00
## result.8557	3	1.680971e+00	1.680968e+00
## result.8558	3	1.681171e+00	1.681168e+00
## result.8559	3	1.681371e+00	1.681368e+00
## result.8560	3	1.681571e+00	1.681568e+00
## result.8561	3	1.681771e+00	1.681768e+00
## result.8562	3	1.681971e+00	1.681968e+00
## result.8563	3	1.682171e+00	1.682168e+00
## result.8564	3	1.682371e+00	1.682368e+00
## result.8565	3	1.682571e+00	1.682568e+00
## result.8566	3	1.682771e+00	1.682768e+00
## result.8567	3	1.682971e+00	1.682968e+00
## result.8568	3	1.683171e+00	1.683168e+00
## result.8569	3	1.683371e+00	1.683368e+00
## result.8570	3	1.683571e+00	1.683568e+00
## result.8571	3	1.683771e+00	1.683768e+00
## result.8572	3	1.683971e+00	1.683968e+00
## result.8573	3	1.684171e+00	1.684168e+00
## result.8574	3	1.684371e+00	1.684368e+00
## result.8575	3	1.684571e+00	1.684568e+00
## result.8576	3	1.684771e+00	1.684768e+00
## result.8577	3	1.684971e+00	1.684968e+00
## result.8578	3	1.685171e+00	1.685168e+00
## result.8579	3	1.685371e+00	1.685368e+00
## result.8580	3	1.685571e+00	1.685568e+00
## result.8581	3	1.685771e+00	1.685768e+00
## result.8582	3	1.685971e+00	1.685968e+00
## result.8583	3	1.686171e+00	1.686169e+00
## result.8584	3	1.686371e+00	1.686369e+00
## result.8585	3	1.686571e+00	1.686569e+00
## result.8586	3	1.686771e+00	1.686769e+00
## result.8587	3	1.686971e+00	1.686969e+00
## result.8588	3	1.687171e+00	1.687169e+00
## result.8589	3	1.687371e+00	1.687369e+00
## result.8590	3	1.687571e+00	1.687569e+00
## result.8591	3	1.687771e+00	1.687769e+00
## result.8592	3	1.687971e+00	1.687969e+00
## result.8593	3	1.688171e+00	1.688169e+00
## result.8594	3	1.688371e+00	1.688369e+00
## result.8595	3	1.688571e+00	1.688569e+00
## result.8596	3	1.688771e+00	1.688769e+00
## result.8597	3	1.688971e+00	1.688969e+00
## result.8598	3	1.689171e+00	1.689169e+00
## result.8599	3	1.689372e+00	1.689369e+00
## result.8600	3	1.689572e+00	1.689569e+00
## result.8601	3	1.689772e+00	1.689769e+00
## result.8602	3	1.689972e+00	1.689969e+00
## result.8603	3	1.690172e+00	1.690169e+00
## result.8604	3	1.690372e+00	1.690369e+00
## result.8605	3	1.690572e+00	1.690569e+00
## result.8606	3	1.690772e+00	1.690769e+00
## result.8607	3	1.690972e+00	1.690969e+00
## result.8608	3	1.691172e+00	1.691169e+00
## result.8609	3	1.691372e+00	1.691369e+00

## result.8610	3	1.691572e+00	1.691569e+00
## result.8611	3	1.691772e+00	1.691769e+00
## result.8612	3	1.691972e+00	1.691969e+00
## result.8613	3	1.692172e+00	1.692169e+00
## result.8614	3	1.692372e+00	1.692369e+00
## result.8615	3	1.692572e+00	1.692569e+00
## result.8616	3	1.692772e+00	1.692769e+00
## result.8617	3	1.692972e+00	1.692969e+00
## result.8618	3	1.693172e+00	1.693169e+00
## result.8619	3	1.693372e+00	1.693369e+00
## result.8620	3	1.693572e+00	1.693569e+00
## result.8621	3	1.693772e+00	1.693769e+00
## result.8622	3	1.693972e+00	1.693969e+00
## result.8623	3	1.694172e+00	1.694169e+00
## result.8624	3	1.694372e+00	1.694369e+00
## result.8625	3	1.694572e+00	1.694569e+00
## result.8626	3	1.694772e+00	1.694769e+00
## result.8627	3	1.694972e+00	1.694969e+00
## result.8628	3	1.695172e+00	1.695169e+00
## result.8629	3	1.695372e+00	1.695369e+00
## result.8630	3	1.695572e+00	1.695569e+00
## result.8631	3	1.695772e+00	1.695769e+00
## result.8632	3	1.695972e+00	1.695969e+00
## result.8633	3	1.696172e+00	1.696169e+00
## result.8634	3	1.696372e+00	1.696369e+00
## result.8635	3	1.696572e+00	1.696570e+00
## result.8636	3	1.696772e+00	1.696770e+00
## result.8637	3	1.696972e+00	1.696970e+00
## result.8638	3	1.697172e+00	1.697170e+00
## result.8639	3	1.697372e+00	1.697370e+00
## result.8640	3	1.697572e+00	1.697570e+00
## result.8641	3	1.697772e+00	1.697770e+00
## result.8642	3	1.697972e+00	1.697970e+00
## result.8643	3	1.698172e+00	1.698170e+00
## result.8644	3	1.698372e+00	1.698370e+00
## result.8645	3	1.698572e+00	1.698570e+00
## result.8646	3	1.698772e+00	1.698770e+00
## result.8647	3	1.698972e+00	1.698970e+00
## result.8648	3	1.699172e+00	1.699170e+00
## result.8649	3	1.699373e+00	1.699370e+00
## result.8650	3	1.699573e+00	1.699570e+00
## result.8651	3	1.699773e+00	1.699770e+00
## result.8652	3	1.699973e+00	1.699970e+00
## result.8653	3	1.700173e+00	1.700170e+00
## result.8654	3	1.700373e+00	1.700370e+00
## result.8655	3	1.700573e+00	1.700570e+00
## result.8656	3	1.700773e+00	1.700770e+00
## result.8657	3	1.700973e+00	1.700970e+00
## result.8658	3	1.701173e+00	1.701170e+00
## result.8659	3	1.701373e+00	1.701370e+00
## result.8660	3	1.701573e+00	1.701570e+00
## result.8661	3	1.701773e+00	1.701770e+00
## result.8662	3	1.701973e+00	1.701970e+00
## result.8663	3	1.702173e+00	1.702170e+00

## result.8664	3	1.702373e+00	1.702370e+00
## result.8665	3	1.702573e+00	1.702570e+00
## result.8666	3	1.702773e+00	1.702770e+00
## result.8667	3	1.702973e+00	1.702970e+00
## result.8668	3	1.703173e+00	1.703170e+00
## result.8669	3	1.703373e+00	1.703370e+00
## result.8670	3	1.703573e+00	1.703570e+00
## result.8671	3	1.703773e+00	1.703770e+00
## result.8672	3	1.703973e+00	1.703970e+00
## result.8673	3	1.704173e+00	1.704170e+00
## result.8674	3	1.704373e+00	1.704370e+00
## result.8675	3	1.704573e+00	1.704570e+00
## result.8676	3	1.704773e+00	1.704770e+00
## result.8677	3	1.704973e+00	1.704970e+00
## result.8678	3	1.705173e+00	1.705170e+00
## result.8679	3	1.705373e+00	1.705370e+00
## result.8680	3	1.705573e+00	1.705570e+00
## result.8681	3	1.705773e+00	1.705770e+00
## result.8682	3	1.705973e+00	1.705970e+00
## result.8683	3	1.706173e+00	1.706170e+00
## result.8684	3	1.706373e+00	1.706370e+00
## result.8685	3	1.706573e+00	1.706570e+00
## result.8686	3	1.706773e+00	1.706770e+00
## result.8687	3	1.706973e+00	1.706971e+00
## result.8688	3	1.707173e+00	1.707171e+00
## result.8689	3	1.707373e+00	1.707371e+00
## result.8690	3	1.707573e+00	1.707571e+00
## result.8691	3	1.707773e+00	1.707771e+00
## result.8692	3	1.707973e+00	1.707971e+00
## result.8693	3	1.708173e+00	1.708171e+00
## result.8694	3	1.708373e+00	1.708371e+00
## result.8695	3	1.708573e+00	1.708571e+00
## result.8696	3	1.708773e+00	1.708771e+00
## result.8697	3	1.708973e+00	1.708971e+00
## result.8698	3	1.709173e+00	1.709171e+00
## result.8699	3	1.709373e+00	1.709371e+00
## result.8700	3	1.709574e+00	1.709571e+00
## result.8701	3	1.709774e+00	1.709771e+00
## result.8702	3	1.709974e+00	1.709971e+00
## result.8703	3	1.710174e+00	1.710171e+00
## result.8704	3	1.710374e+00	1.710371e+00
## result.8705	3	1.710574e+00	1.710571e+00
## result.8706	3	1.710774e+00	1.710771e+00
## result.8707	3	1.710974e+00	1.710971e+00
## result.8708	3	1.711174e+00	1.711171e+00
## result.8709	3	1.711374e+00	1.711371e+00
## result.8710	3	1.711574e+00	1.711571e+00
## result.8711	3	1.711774e+00	1.711771e+00
## result.8712	3	1.711974e+00	1.711971e+00
## result.8713	3	1.712174e+00	1.712171e+00
## result.8714	3	1.712374e+00	1.712371e+00
## result.8715	3	1.712574e+00	1.712571e+00
## result.8716	3	1.712774e+00	1.712771e+00
## result.8717	3	1.712974e+00	1.712971e+00

## result.8718	3	1.713174e+00	1.713171e+00
## result.8719	3	1.713374e+00	1.713371e+00
## result.8720	3	1.713574e+00	1.713571e+00
## result.8721	3	1.713774e+00	1.713771e+00
## result.8722	3	1.713974e+00	1.713971e+00
## result.8723	3	1.714174e+00	1.714171e+00
## result.8724	3	1.714374e+00	1.714371e+00
## result.8725	3	1.714574e+00	1.714571e+00
## result.8726	3	1.714774e+00	1.714771e+00
## result.8727	3	1.714974e+00	1.714971e+00
## result.8728	3	1.715174e+00	1.715171e+00
## result.8729	3	1.715374e+00	1.715371e+00
## result.8730	3	1.715574e+00	1.715571e+00
## result.8731	3	1.715774e+00	1.715771e+00
## result.8732	3	1.715974e+00	1.715971e+00
## result.8733	3	1.716174e+00	1.716171e+00
## result.8734	3	1.716374e+00	1.716371e+00
## result.8735	3	1.716574e+00	1.716571e+00
## result.8736	3	1.716774e+00	1.716771e+00
## result.8737	3	1.716974e+00	1.716971e+00
## result.8738	3	1.717174e+00	1.717171e+00
## result.8739	3	1.717374e+00	1.717371e+00
## result.8740	3	1.717574e+00	1.717572e+00
## result.8741	3	1.717774e+00	1.717772e+00
## result.8742	3	1.717974e+00	1.717972e+00
## result.8743	3	1.718174e+00	1.718172e+00
## result.8744	3	1.718374e+00	1.718372e+00
## result.8745	3	1.718574e+00	1.718572e+00
## result.8746	3	1.718774e+00	1.718772e+00
## result.8747	3	1.718974e+00	1.718972e+00
## result.8748	3	1.719174e+00	1.719172e+00
## result.8749	3	1.719374e+00	1.719372e+00
## result.8750	3	1.719575e+00	1.719572e+00
## result.8751	3	1.719775e+00	1.719772e+00
## result.8752	3	1.719975e+00	1.719972e+00
## result.8753	3	1.720175e+00	1.720172e+00
## result.8754	3	1.720375e+00	1.720372e+00
## result.8755	3	1.720575e+00	1.720572e+00
## result.8756	3	1.720775e+00	1.720772e+00
## result.8757	3	1.720975e+00	1.720972e+00
## result.8758	3	1.721175e+00	1.721172e+00
## result.8759	3	1.721375e+00	1.721372e+00
## result.8760	3	1.721575e+00	1.721572e+00
## result.8761	3	1.721775e+00	1.721772e+00
## result.8762	3	1.721975e+00	1.721972e+00
## result.8763	3	1.722175e+00	1.722172e+00
## result.8764	3	1.722375e+00	1.722372e+00
## result.8765	3	1.722575e+00	1.722572e+00
## result.8766	3	1.722775e+00	1.722772e+00
## result.8767	3	1.722975e+00	1.722972e+00
## result.8768	3	1.723175e+00	1.723172e+00
## result.8769	3	1.723375e+00	1.723372e+00
## result.8770	3	1.723575e+00	1.723572e+00
## result.8771	3	1.723775e+00	1.723772e+00

## result.8772	3	1.723975e+00	1.723972e+00
## result.8773	3	1.724175e+00	1.724172e+00
## result.8774	3	1.724375e+00	1.724372e+00
## result.8775	3	1.724575e+00	1.724572e+00
## result.8776	3	1.724775e+00	1.724772e+00
## result.8777	3	1.724975e+00	1.724972e+00
## result.8778	3	1.725175e+00	1.725172e+00
## result.8779	3	1.725375e+00	1.725372e+00
## result.8780	3	1.725575e+00	1.725572e+00
## result.8781	3	1.725775e+00	1.725772e+00
## result.8782	3	1.725975e+00	1.725972e+00
## result.8783	3	1.726175e+00	1.726172e+00
## result.8784	3	1.726375e+00	1.726372e+00
## result.8785	3	1.726575e+00	1.726572e+00
## result.8786	3	1.726775e+00	1.726772e+00
## result.8787	3	1.726975e+00	1.726972e+00
## result.8788	3	1.727175e+00	1.727172e+00
## result.8789	3	1.727375e+00	1.727372e+00
## result.8790	3	1.727575e+00	1.727572e+00
## result.8791	3	1.727775e+00	1.727772e+00
## result.8792	3	1.727975e+00	1.727973e+00
## result.8793	3	1.728175e+00	1.728173e+00
## result.8794	3	1.728375e+00	1.728373e+00
## result.8795	3	1.728575e+00	1.728573e+00
## result.8796	3	1.728775e+00	1.728773e+00
## result.8797	3	1.728975e+00	1.728973e+00
## result.8798	3	1.729175e+00	1.729173e+00
## result.8799	3	1.729375e+00	1.729373e+00
## result.8800	3	1.729576e+00	1.729573e+00
## result.8801	3	1.729776e+00	1.729773e+00
## result.8802	3	1.729976e+00	1.729973e+00
## result.8803	3	1.730176e+00	1.730173e+00
## result.8804	3	1.730376e+00	1.730373e+00
## result.8805	3	1.730576e+00	1.730573e+00
## result.8806	3	1.730776e+00	1.730773e+00
## result.8807	3	1.730976e+00	1.730973e+00
## result.8808	3	1.731176e+00	1.731173e+00
## result.8809	3	1.731376e+00	1.731373e+00
## result.8810	3	1.731576e+00	1.731573e+00
## result.8811	3	1.731776e+00	1.731773e+00
## result.8812	3	1.731976e+00	1.731973e+00
## result.8813	3	1.732176e+00	1.732173e+00
## result.8814	3	1.732376e+00	1.732373e+00
## result.8815	3	1.732576e+00	1.732573e+00
## result.8816	3	1.732776e+00	1.732773e+00
## result.8817	3	1.732976e+00	1.732973e+00
## result.8818	3	1.733176e+00	1.733173e+00
## result.8819	3	1.733376e+00	1.733373e+00
## result.8820	3	1.733576e+00	1.733573e+00
## result.8821	3	1.733776e+00	1.733773e+00
## result.8822	3	1.733976e+00	1.733973e+00
## result.8823	3	1.734176e+00	1.734173e+00
## result.8824	3	1.734376e+00	1.734373e+00
## result.8825	3	1.734576e+00	1.734573e+00

## result.8826	3	1.734776e+00	1.734773e+00
## result.8827	3	1.734976e+00	1.734973e+00
## result.8828	3	1.735176e+00	1.735173e+00
## result.8829	3	1.735376e+00	1.735373e+00
## result.8830	3	1.735576e+00	1.735573e+00
## result.8831	3	1.735776e+00	1.735773e+00
## result.8832	3	1.735976e+00	1.735973e+00
## result.8833	3	1.736176e+00	1.736173e+00
## result.8834	3	1.736376e+00	1.736373e+00
## result.8835	3	1.736576e+00	1.736573e+00
## result.8836	3	1.736776e+00	1.736773e+00
## result.8837	3	1.736976e+00	1.736973e+00
## result.8838	3	1.737176e+00	1.737173e+00
## result.8839	3	1.737376e+00	1.737373e+00
## result.8840	3	1.737576e+00	1.737573e+00
## result.8841	3	1.737776e+00	1.737773e+00
## result.8842	3	1.737976e+00	1.737973e+00
## result.8843	3	1.738176e+00	1.738173e+00
## result.8844	3	1.738376e+00	1.738374e+00
## result.8845	3	1.738576e+00	1.738574e+00
## result.8846	3	1.738776e+00	1.738774e+00
## result.8847	3	1.738976e+00	1.738974e+00
## result.8848	3	1.739176e+00	1.739174e+00
## result.8849	3	1.739376e+00	1.739374e+00
## result.8850	3	1.739576e+00	1.739574e+00
## result.8851	3	1.739777e+00	1.739774e+00
## result.8852	3	1.739977e+00	1.739974e+00
## result.8853	3	1.740177e+00	1.740174e+00
## result.8854	3	1.740377e+00	1.740374e+00
## result.8855	3	1.740577e+00	1.740574e+00
## result.8856	3	1.740777e+00	1.740774e+00
## result.8857	3	1.740977e+00	1.740974e+00
## result.8858	3	1.741177e+00	1.741174e+00
## result.8859	3	1.741377e+00	1.741374e+00
## result.8860	3	1.741577e+00	1.741574e+00
## result.8861	3	1.741777e+00	1.741774e+00
## result.8862	3	1.741977e+00	1.741974e+00
## result.8863	3	1.742177e+00	1.742174e+00
## result.8864	3	1.742377e+00	1.742374e+00
## result.8865	3	1.742577e+00	1.742574e+00
## result.8866	3	1.742777e+00	1.742774e+00
## result.8867	3	1.742977e+00	1.742974e+00
## result.8868	3	1.743177e+00	1.743174e+00
## result.8869	3	1.743377e+00	1.743374e+00
## result.8870	3	1.743577e+00	1.743574e+00
## result.8871	3	1.743777e+00	1.743774e+00
## result.8872	3	1.743977e+00	1.743974e+00
## result.8873	3	1.744177e+00	1.744174e+00
## result.8874	3	1.744377e+00	1.744374e+00
## result.8875	3	1.744577e+00	1.744574e+00
## result.8876	3	1.744777e+00	1.744774e+00
## result.8877	3	1.744977e+00	1.744974e+00
## result.8878	3	1.745177e+00	1.745174e+00
## result.8879	3	1.745377e+00	1.745374e+00

## result.8880	3	1.745577e+00	1.745574e+00
## result.8881	3	1.745777e+00	1.745774e+00
## result.8882	3	1.745977e+00	1.745974e+00
## result.8883	3	1.746177e+00	1.746174e+00
## result.8884	3	1.746377e+00	1.746374e+00
## result.8885	3	1.746577e+00	1.746574e+00
## result.8886	3	1.746777e+00	1.746774e+00
## result.8887	3	1.746977e+00	1.746974e+00
## result.8888	3	1.747177e+00	1.747174e+00
## result.8889	3	1.747377e+00	1.747374e+00
## result.8890	3	1.747577e+00	1.747574e+00
## result.8891	3	1.747777e+00	1.747774e+00
## result.8892	3	1.747977e+00	1.747974e+00
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## result.8894	3	1.748377e+00	1.748374e+00
## result.8895	3	1.748577e+00	1.748574e+00
## result.8896	3	1.748777e+00	1.748774e+00
## result.8897	3	1.748977e+00	1.748975e+00
## result.8898	3	1.749177e+00	1.749175e+00
## result.8899	3	1.749377e+00	1.749375e+00
## result.8900	3	1.749577e+00	1.749575e+00
## result.8901	3	1.749778e+00	1.749775e+00
## result.8902	3	1.749978e+00	1.749975e+00
## result.8903	3	1.750178e+00	1.750175e+00
## result.8904	3	1.750378e+00	1.750375e+00
## result.8905	3	1.750578e+00	1.750575e+00
## result.8906	3	1.750778e+00	1.750775e+00
## result.8907	3	1.750978e+00	1.750975e+00
## result.8908	3	1.751178e+00	1.751175e+00
## result.8909	3	1.751378e+00	1.751375e+00
## result.8910	3	1.751578e+00	1.751575e+00
## result.8911	3	1.751778e+00	1.751775e+00
## result.8912	3	1.751978e+00	1.751975e+00
## result.8913	3	1.752178e+00	1.752175e+00
## result.8914	3	1.752378e+00	1.752375e+00
## result.8915	3	1.752578e+00	1.752575e+00
## result.8916	3	1.752778e+00	1.752775e+00
## result.8917	3	1.752978e+00	1.752975e+00
## result.8918	3	1.753178e+00	1.753175e+00
## result.8919	3	1.753378e+00	1.753375e+00
## result.8920	3	1.753578e+00	1.753575e+00
## result.8921	3	1.753778e+00	1.753775e+00
## result.8922	3	1.753978e+00	1.753975e+00
## result.8923	3	1.754178e+00	1.754175e+00
## result.8924	3	1.754378e+00	1.754375e+00
## result.8925	3	1.754578e+00	1.754575e+00
## result.8926	3	1.754778e+00	1.754775e+00
## result.8927	3	1.754978e+00	1.754975e+00
## result.8928	3	1.755178e+00	1.755175e+00
## result.8929	3	1.755378e+00	1.755375e+00
## result.8930	3	1.755578e+00	1.755575e+00
## result.8931	3	1.755778e+00	1.755775e+00
## result.8932	3	1.755978e+00	1.755975e+00
## result.8933	3	1.756178e+00	1.756175e+00

## result.8934	3	1.756378e+00	1.756375e+00
## result.8935	3	1.756578e+00	1.756575e+00
## result.8936	3	1.756778e+00	1.756775e+00
## result.8937	3	1.756978e+00	1.756975e+00
## result.8938	3	1.757178e+00	1.757175e+00
## result.8939	3	1.757378e+00	1.757375e+00
## result.8940	3	1.757578e+00	1.757575e+00
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## result.8942	3	1.757978e+00	1.757975e+00
## result.8943	3	1.758178e+00	1.758175e+00
## result.8944	3	1.758378e+00	1.758375e+00
## result.8945	3	1.758578e+00	1.758575e+00
## result.8946	3	1.758778e+00	1.758775e+00
## result.8947	3	1.758978e+00	1.758975e+00
## result.8948	3	1.759178e+00	1.759175e+00
## result.8949	3	1.759378e+00	1.759376e+00
## result.8950	3	1.759578e+00	1.759576e+00
## result.8951	3	1.759779e+00	1.759776e+00
## result.8952	3	1.759979e+00	1.759976e+00
## result.8953	3	1.760179e+00	1.760176e+00
## result.8954	3	1.760379e+00	1.760376e+00
## result.8955	3	1.760579e+00	1.760576e+00
## result.8956	3	1.760779e+00	1.760776e+00
## result.8957	3	1.760979e+00	1.760976e+00
## result.8958	3	1.761179e+00	1.761176e+00
## result.8959	3	1.761379e+00	1.761376e+00
## result.8960	3	1.761579e+00	1.761576e+00
## result.8961	3	1.761779e+00	1.761776e+00
## result.8962	3	1.761979e+00	1.761976e+00
## result.8963	3	1.762179e+00	1.762176e+00
## result.8964	3	1.762379e+00	1.762376e+00
## result.8965	3	1.762579e+00	1.762576e+00
## result.8966	3	1.762779e+00	1.762776e+00
## result.8967	3	1.762979e+00	1.762976e+00
## result.8968	3	1.763179e+00	1.763176e+00
## result.8969	3	1.763379e+00	1.763376e+00
## result.8970	3	1.763579e+00	1.763576e+00
## result.8971	3	1.763779e+00	1.763776e+00
## result.8972	3	1.763979e+00	1.763976e+00
## result.8973	3	1.764179e+00	1.764176e+00
## result.8974	3	1.764379e+00	1.764376e+00
## result.8975	3	1.764579e+00	1.764576e+00
## result.8976	3	1.764779e+00	1.764776e+00
## result.8977	3	1.764979e+00	1.764976e+00
## result.8978	3	1.765179e+00	1.765176e+00
## result.8979	3	1.765379e+00	1.765376e+00
## result.8980	3	1.765579e+00	1.765576e+00
## result.8981	3	1.765779e+00	1.765776e+00
## result.8982	3	1.765979e+00	1.765976e+00
## result.8983	3	1.766179e+00	1.766176e+00
## result.8984	3	1.766379e+00	1.766376e+00
## result.8985	3	1.766579e+00	1.766576e+00
## result.8986	3	1.766779e+00	1.766776e+00
## result.8987	3	1.766979e+00	1.766976e+00

## result.8988	3	1.767179e+00	1.767176e+00
## result.8989	3	1.767379e+00	1.767376e+00
## result.8990	3	1.767579e+00	1.767576e+00
## result.8991	3	1.767779e+00	1.767776e+00
## result.8992	3	1.767979e+00	1.767976e+00
## result.8993	3	1.768179e+00	1.768176e+00
## result.8994	3	1.768379e+00	1.768376e+00
## result.8995	3	1.768579e+00	1.768576e+00
## result.8996	3	1.768779e+00	1.768776e+00
## result.8997	3	1.768979e+00	1.768976e+00
## result.8998	3	1.769179e+00	1.769176e+00
## result.8999	3	1.769379e+00	1.769376e+00
## result.9000	3	1.769579e+00	1.769576e+00
## result.9001	3	1.769780e+00	1.769777e+00
## result.9002	3	1.769980e+00	1.769977e+00
## result.9003	3	1.770180e+00	1.770177e+00
## result.9004	3	1.770380e+00	1.770377e+00
## result.9005	3	1.770580e+00	1.770577e+00
## result.9006	3	1.770780e+00	1.770777e+00
## result.9007	3	1.770980e+00	1.770977e+00
## result.9008	3	1.771180e+00	1.771177e+00
## result.9009	3	1.771380e+00	1.771377e+00
## result.9010	3	1.771580e+00	1.771577e+00
## result.9011	3	1.771780e+00	1.771777e+00
## result.9012	3	1.771980e+00	1.771977e+00
## result.9013	3	1.772180e+00	1.772177e+00
## result.9014	3	1.772380e+00	1.772377e+00
## result.9015	3	1.772580e+00	1.772577e+00
## result.9016	3	1.772780e+00	1.772777e+00
## result.9017	3	1.772980e+00	1.772977e+00
## result.9018	3	1.773180e+00	1.773177e+00
## result.9019	3	1.773380e+00	1.773377e+00
## result.9020	3	1.773580e+00	1.773577e+00
## result.9021	3	1.773780e+00	1.773777e+00
## result.9022	3	1.773980e+00	1.773977e+00
## result.9023	3	1.774180e+00	1.774177e+00
## result.9024	3	1.774380e+00	1.774377e+00
## result.9025	3	1.774580e+00	1.774577e+00
## result.9026	3	1.774780e+00	1.774777e+00
## result.9027	3	1.774980e+00	1.774977e+00
## result.9028	3	1.775180e+00	1.775177e+00
## result.9029	3	1.775380e+00	1.775377e+00
## result.9030	3	1.775580e+00	1.775577e+00
## result.9031	3	1.775780e+00	1.775777e+00
## result.9032	3	1.775980e+00	1.775977e+00
## result.9033	3	1.776180e+00	1.776177e+00
## result.9034	3	1.776380e+00	1.776377e+00
## result.9035	3	1.776580e+00	1.776577e+00
## result.9036	3	1.776780e+00	1.776777e+00
## result.9037	3	1.776980e+00	1.776977e+00
## result.9038	3	1.777180e+00	1.777177e+00
## result.9039	3	1.777380e+00	1.777377e+00
## result.9040	3	1.777580e+00	1.777577e+00
## result.9041	3	1.777780e+00	1.777777e+00

## result.9042	3	1.777980e+00	1.777977e+00
## result.9043	3	1.778180e+00	1.778177e+00
## result.9044	3	1.778380e+00	1.778377e+00
## result.9045	3	1.778580e+00	1.778577e+00
## result.9046	3	1.778780e+00	1.778777e+00
## result.9047	3	1.778980e+00	1.778977e+00
## result.9048	3	1.779180e+00	1.779177e+00
## result.9049	3	1.779380e+00	1.779377e+00
## result.9050	3	1.779580e+00	1.779577e+00
## result.9051	3	1.779780e+00	1.779777e+00
## result.9052	3	1.779981e+00	1.779977e+00
## result.9053	3	1.780181e+00	1.780177e+00
## result.9054	3	1.780381e+00	1.780378e+00
## result.9055	3	1.780581e+00	1.780578e+00
## result.9056	3	1.780781e+00	1.780778e+00
## result.9057	3	1.780981e+00	1.780978e+00
## result.9058	3	1.781181e+00	1.781178e+00
## result.9059	3	1.781381e+00	1.781378e+00
## result.9060	3	1.781581e+00	1.781578e+00
## result.9061	3	1.781781e+00	1.781778e+00
## result.9062	3	1.781981e+00	1.781978e+00
## result.9063	3	1.782181e+00	1.782178e+00
## result.9064	3	1.782381e+00	1.782378e+00
## result.9065	3	1.782581e+00	1.782578e+00
## result.9066	3	1.782781e+00	1.782778e+00
## result.9067	3	1.782981e+00	1.782978e+00
## result.9068	3	1.783181e+00	1.783178e+00
## result.9069	3	1.783381e+00	1.783378e+00
## result.9070	3	1.783581e+00	1.783578e+00
## result.9071	3	1.783781e+00	1.783778e+00
## result.9072	3	1.783981e+00	1.783978e+00
## result.9073	3	1.784181e+00	1.784178e+00
## result.9074	3	1.784381e+00	1.784378e+00
## result.9075	3	1.784581e+00	1.784578e+00
## result.9076	3	1.784781e+00	1.784778e+00
## result.9077	3	1.784981e+00	1.784978e+00
## result.9078	3	1.785181e+00	1.785178e+00
## result.9079	3	1.785381e+00	1.785378e+00
## result.9080	3	1.785581e+00	1.785578e+00
## result.9081	3	1.785781e+00	1.785778e+00
## result.9082	3	1.785981e+00	1.785978e+00
## result.9083	3	1.786181e+00	1.786178e+00
## result.9084	3	1.786381e+00	1.786378e+00
## result.9085	3	1.786581e+00	1.786578e+00
## result.9086	3	1.786781e+00	1.786778e+00
## result.9087	3	1.786981e+00	1.786978e+00
## result.9088	3	1.787181e+00	1.787178e+00
## result.9089	3	1.787381e+00	1.787378e+00
## result.9090	3	1.787581e+00	1.787578e+00
## result.9091	3	1.787781e+00	1.787778e+00
## result.9092	3	1.787981e+00	1.787978e+00
## result.9093	3	1.788181e+00	1.788178e+00
## result.9094	3	1.788381e+00	1.788378e+00
## result.9095	3	1.788581e+00	1.788578e+00

## result.9096	3	1.788781e+00	1.788778e+00
## result.9097	3	1.788981e+00	1.788978e+00
## result.9098	3	1.789181e+00	1.789178e+00
## result.9099	3	1.789381e+00	1.789378e+00
## result.9100	3	1.789581e+00	1.789578e+00
## result.9101	3	1.789781e+00	1.789778e+00
## result.9102	3	1.789982e+00	1.789978e+00
## result.9103	3	1.790182e+00	1.790178e+00
## result.9104	3	1.790382e+00	1.790378e+00
## result.9105	3	1.790582e+00	1.790578e+00
## result.9106	3	1.790782e+00	1.790779e+00
## result.9107	3	1.790982e+00	1.790979e+00
## result.9108	3	1.791182e+00	1.791179e+00
## result.9109	3	1.791382e+00	1.791379e+00
## result.9110	3	1.791582e+00	1.791579e+00
## result.9111	3	1.791782e+00	1.791779e+00
## result.9112	3	1.791982e+00	1.791979e+00
## result.9113	3	1.792182e+00	1.792179e+00
## result.9114	3	1.792382e+00	1.792379e+00
## result.9115	3	1.792582e+00	1.792579e+00
## result.9116	3	1.792782e+00	1.792779e+00
## result.9117	3	1.792982e+00	1.792979e+00
## result.9118	3	1.793182e+00	1.793179e+00
## result.9119	3	1.793382e+00	1.793379e+00
## result.9120	3	1.793582e+00	1.793579e+00
## result.9121	3	1.793782e+00	1.793779e+00
## result.9122	3	1.793982e+00	1.793979e+00
## result.9123	3	1.794182e+00	1.794179e+00
## result.9124	3	1.794382e+00	1.794379e+00
## result.9125	3	1.794582e+00	1.794579e+00
## result.9126	3	1.794782e+00	1.794779e+00
## result.9127	3	1.794982e+00	1.794979e+00
## result.9128	3	1.795182e+00	1.795179e+00
## result.9129	3	1.795382e+00	1.795379e+00
## result.9130	3	1.795582e+00	1.795579e+00
## result.9131	3	1.795782e+00	1.795779e+00
## result.9132	3	1.795982e+00	1.795979e+00
## result.9133	3	1.796182e+00	1.796179e+00
## result.9134	3	1.796382e+00	1.796379e+00
## result.9135	3	1.796582e+00	1.796579e+00
## result.9136	3	1.796782e+00	1.796779e+00
## result.9137	3	1.796982e+00	1.796979e+00
## result.9138	3	1.797182e+00	1.797179e+00
## result.9139	3	1.797382e+00	1.797379e+00
## result.9140	3	1.797582e+00	1.797579e+00
## result.9141	3	1.797782e+00	1.797779e+00
## result.9142	3	1.797982e+00	1.797979e+00
## result.9143	3	1.798182e+00	1.798179e+00
## result.9144	3	1.798382e+00	1.798379e+00
## result.9145	3	1.798582e+00	1.798579e+00
## result.9146	3	1.798782e+00	1.798779e+00
## result.9147	3	1.798982e+00	1.798979e+00
## result.9148	3	1.799182e+00	1.799179e+00
## result.9149	3	1.799382e+00	1.799379e+00

## result.9150	3	1.799582e+00	1.799579e+00
## result.9151	3	1.799782e+00	1.799779e+00
## result.9152	3	1.799983e+00	1.799979e+00
## result.9153	3	1.800183e+00	1.800179e+00
## result.9154	3	1.800383e+00	1.800379e+00
## result.9155	3	1.800583e+00	1.800579e+00
## result.9156	3	1.800783e+00	1.800779e+00
## result.9157	3	1.800983e+00	1.800979e+00
## result.9158	3	1.801183e+00	1.801180e+00
## result.9159	3	1.801383e+00	1.801380e+00
## result.9160	3	1.801583e+00	1.801580e+00
## result.9161	3	1.801783e+00	1.801780e+00
## result.9162	3	1.801983e+00	1.801980e+00
## result.9163	3	1.802183e+00	1.802180e+00
## result.9164	3	1.802383e+00	1.802380e+00
## result.9165	3	1.802583e+00	1.802580e+00
## result.9166	3	1.802783e+00	1.802780e+00
## result.9167	3	1.802983e+00	1.802980e+00
## result.9168	3	1.803183e+00	1.803180e+00
## result.9169	3	1.803383e+00	1.803380e+00
## result.9170	3	1.803583e+00	1.803580e+00
## result.9171	3	1.803783e+00	1.803780e+00
## result.9172	3	1.803983e+00	1.803980e+00
## result.9173	3	1.804183e+00	1.804180e+00
## result.9174	3	1.804383e+00	1.804380e+00
## result.9175	3	1.804583e+00	1.804580e+00
## result.9176	3	1.804783e+00	1.804780e+00
## result.9177	3	1.804983e+00	1.804980e+00
## result.9178	3	1.805183e+00	1.805180e+00
## result.9179	3	1.805383e+00	1.805380e+00
## result.9180	3	1.805583e+00	1.805580e+00
## result.9181	3	1.805783e+00	1.805780e+00
## result.9182	3	1.805983e+00	1.805980e+00
## result.9183	3	1.806183e+00	1.806180e+00
## result.9184	3	1.806383e+00	1.806380e+00
## result.9185	3	1.806583e+00	1.806580e+00
## result.9186	3	1.806783e+00	1.806780e+00
## result.9187	3	1.806983e+00	1.806980e+00
## result.9188	3	1.807183e+00	1.807180e+00
## result.9189	3	1.807383e+00	1.807380e+00
## result.9190	3	1.807583e+00	1.807580e+00
## result.9191	3	1.807783e+00	1.807780e+00
## result.9192	3	1.807983e+00	1.807980e+00
## result.9193	3	1.808183e+00	1.808180e+00
## result.9194	3	1.808383e+00	1.808380e+00
## result.9195	3	1.808583e+00	1.808580e+00
## result.9196	3	1.808783e+00	1.808780e+00
## result.9197	3	1.808983e+00	1.808980e+00
## result.9198	3	1.809183e+00	1.809180e+00
## result.9199	3	1.809383e+00	1.809380e+00
## result.9200	3	1.809583e+00	1.809580e+00
## result.9201	3	1.809783e+00	1.809780e+00
## result.9202	3	1.809983e+00	1.809980e+00
## result.9203	3	1.810184e+00	1.810180e+00

## result.9204	3	1.810384e+00	1.810380e+00
## result.9205	3	1.810584e+00	1.810580e+00
## result.9206	3	1.810784e+00	1.810780e+00
## result.9207	3	1.810984e+00	1.810980e+00
## result.9208	3	1.811184e+00	1.811180e+00
## result.9209	3	1.811384e+00	1.811380e+00
## result.9210	3	1.811584e+00	1.811581e+00
## result.9211	3	1.811784e+00	1.811781e+00
## result.9212	3	1.811984e+00	1.811981e+00
## result.9213	3	1.812184e+00	1.812181e+00
## result.9214	3	1.812384e+00	1.812381e+00
## result.9215	3	1.812584e+00	1.812581e+00
## result.9216	3	1.812784e+00	1.812781e+00
## result.9217	3	1.812984e+00	1.812981e+00
## result.9218	3	1.813184e+00	1.813181e+00
## result.9219	3	1.813384e+00	1.813381e+00
## result.9220	3	1.813584e+00	1.813581e+00
## result.9221	3	1.813784e+00	1.813781e+00
## result.9222	3	1.813984e+00	1.813981e+00
## result.9223	3	1.814184e+00	1.814181e+00
## result.9224	3	1.814384e+00	1.814381e+00
## result.9225	3	1.814584e+00	1.814581e+00
## result.9226	3	1.814784e+00	1.814781e+00
## result.9227	3	1.814984e+00	1.814981e+00
## result.9228	3	1.815184e+00	1.815181e+00
## result.9229	3	1.815384e+00	1.815381e+00
## result.9230	3	1.815584e+00	1.815581e+00
## result.9231	3	1.815784e+00	1.815781e+00
## result.9232	3	1.815984e+00	1.815981e+00
## result.9233	3	1.816184e+00	1.816181e+00
## result.9234	3	1.816384e+00	1.816381e+00
## result.9235	3	1.816584e+00	1.816581e+00
## result.9236	3	1.816784e+00	1.816781e+00
## result.9237	3	1.816984e+00	1.816981e+00
## result.9238	3	1.817184e+00	1.817181e+00
## result.9239	3	1.817384e+00	1.817381e+00
## result.9240	3	1.817584e+00	1.817581e+00
## result.9241	3	1.817784e+00	1.817781e+00
## result.9242	3	1.817984e+00	1.817981e+00
## result.9243	3	1.818184e+00	1.818181e+00
## result.9244	3	1.818384e+00	1.818381e+00
## result.9245	3	1.818584e+00	1.818581e+00
## result.9246	3	1.818784e+00	1.818781e+00
## result.9247	3	1.818984e+00	1.818981e+00
## result.9248	3	1.819184e+00	1.819181e+00
## result.9249	3	1.819384e+00	1.819381e+00
## result.9250	3	1.819584e+00	1.819581e+00
## result.9251	3	1.819784e+00	1.819781e+00
## result.9252	3	1.819984e+00	1.819981e+00
## result.9253	3	1.820185e+00	1.820181e+00
## result.9254	3	1.820385e+00	1.820381e+00
## result.9255	3	1.820585e+00	1.820581e+00
## result.9256	3	1.820785e+00	1.820781e+00
## result.9257	3	1.820985e+00	1.820981e+00

## result.9258	3	1.821185e+00	1.821181e+00
## result.9259	3	1.821385e+00	1.821381e+00
## result.9260	3	1.821585e+00	1.821581e+00
## result.9261	3	1.821785e+00	1.821781e+00
## result.9262	3	1.821985e+00	1.821981e+00
## result.9263	3	1.822185e+00	1.822182e+00
## result.9264	3	1.822385e+00	1.822382e+00
## result.9265	3	1.822585e+00	1.822582e+00
## result.9266	3	1.822785e+00	1.822782e+00
## result.9267	3	1.822985e+00	1.822982e+00
## result.9268	3	1.823185e+00	1.823182e+00
## result.9269	3	1.823385e+00	1.823382e+00
## result.9270	3	1.823585e+00	1.823582e+00
## result.9271	3	1.823785e+00	1.823782e+00
## result.9272	3	1.823985e+00	1.823982e+00
## result.9273	3	1.824185e+00	1.824182e+00
## result.9274	3	1.824385e+00	1.824382e+00
## result.9275	3	1.824585e+00	1.824582e+00
## result.9276	3	1.824785e+00	1.824782e+00
## result.9277	3	1.824985e+00	1.824982e+00
## result.9278	3	1.825185e+00	1.825182e+00
## result.9279	3	1.825385e+00	1.825382e+00
## result.9280	3	1.825585e+00	1.825582e+00
## result.9281	3	1.825785e+00	1.825782e+00
## result.9282	3	1.825985e+00	1.825982e+00
## result.9283	3	1.826185e+00	1.826182e+00
## result.9284	3	1.826385e+00	1.826382e+00
## result.9285	3	1.826585e+00	1.826582e+00
## result.9286	3	1.826785e+00	1.826782e+00
## result.9287	3	1.826985e+00	1.826982e+00
## result.9288	3	1.827185e+00	1.827182e+00
## result.9289	3	1.827385e+00	1.827382e+00
## result.9290	3	1.827585e+00	1.827582e+00
## result.9291	3	1.827785e+00	1.827782e+00
## result.9292	3	1.827985e+00	1.827982e+00
## result.9293	3	1.828185e+00	1.828182e+00
## result.9294	3	1.828385e+00	1.828382e+00
## result.9295	3	1.828585e+00	1.828582e+00
## result.9296	3	1.828785e+00	1.828782e+00
## result.9297	3	1.828985e+00	1.828982e+00
## result.9298	3	1.829185e+00	1.829182e+00
## result.9299	3	1.829385e+00	1.829382e+00
## result.9300	3	1.829585e+00	1.829582e+00
## result.9301	3	1.829785e+00	1.829782e+00
## result.9302	3	1.829985e+00	1.829982e+00
## result.9303	3	1.830186e+00	1.830182e+00
## result.9304	3	1.830386e+00	1.830382e+00
## result.9305	3	1.830586e+00	1.830582e+00
## result.9306	3	1.830786e+00	1.830782e+00
## result.9307	3	1.830986e+00	1.830982e+00
## result.9308	3	1.831186e+00	1.831182e+00
## result.9309	3	1.831386e+00	1.831382e+00
## result.9310	3	1.831586e+00	1.831582e+00
## result.9311	3	1.831786e+00	1.831782e+00

## result.9312	3	1.831986e+00	1.831982e+00
## result.9313	3	1.832186e+00	1.832182e+00
## result.9314	3	1.832386e+00	1.832382e+00
## result.9315	3	1.832586e+00	1.832583e+00
## result.9316	3	1.832786e+00	1.832783e+00
## result.9317	3	1.832986e+00	1.832983e+00
## result.9318	3	1.833186e+00	1.833183e+00
## result.9319	3	1.833386e+00	1.833383e+00
## result.9320	3	1.833586e+00	1.833583e+00
## result.9321	3	1.833786e+00	1.833783e+00
## result.9322	3	1.833986e+00	1.833983e+00
## result.9323	3	1.834186e+00	1.834183e+00
## result.9324	3	1.834386e+00	1.834383e+00
## result.9325	3	1.834586e+00	1.834583e+00
## result.9326	3	1.834786e+00	1.834783e+00
## result.9327	3	1.834986e+00	1.834983e+00
## result.9328	3	1.835186e+00	1.835183e+00
## result.9329	3	1.835386e+00	1.835383e+00
## result.9330	3	1.835586e+00	1.835583e+00
## result.9331	3	1.835786e+00	1.835783e+00
## result.9332	3	1.835986e+00	1.835983e+00
## result.9333	3	1.836186e+00	1.836183e+00
## result.9334	3	1.836386e+00	1.836383e+00
## result.9335	3	1.836586e+00	1.836583e+00
## result.9336	3	1.836786e+00	1.836783e+00
## result.9337	3	1.836986e+00	1.836983e+00
## result.9338	3	1.837186e+00	1.837183e+00
## result.9339	3	1.837386e+00	1.837383e+00
## result.9340	3	1.837586e+00	1.837583e+00
## result.9341	3	1.837786e+00	1.837783e+00
## result.9342	3	1.837986e+00	1.837983e+00
## result.9343	3	1.838186e+00	1.838183e+00
## result.9344	3	1.838386e+00	1.838383e+00
## result.9345	3	1.838586e+00	1.838583e+00
## result.9346	3	1.838786e+00	1.838783e+00
## result.9347	3	1.838986e+00	1.838983e+00
## result.9348	3	1.839186e+00	1.839183e+00
## result.9349	3	1.839386e+00	1.839383e+00
## result.9350	3	1.839586e+00	1.839583e+00
## result.9351	3	1.839786e+00	1.839783e+00
## result.9352	3	1.839986e+00	1.839983e+00
## result.9353	3	1.840186e+00	1.840183e+00
## result.9354	3	1.840387e+00	1.840383e+00
## result.9355	3	1.840587e+00	1.840583e+00
## result.9356	3	1.840787e+00	1.840783e+00
## result.9357	3	1.840987e+00	1.840983e+00
## result.9358	3	1.841187e+00	1.841183e+00
## result.9359	3	1.841387e+00	1.841383e+00
## result.9360	3	1.841587e+00	1.841583e+00
## result.9361	3	1.841787e+00	1.841783e+00
## result.9362	3	1.841987e+00	1.841983e+00
## result.9363	3	1.842187e+00	1.842183e+00
## result.9364	3	1.842387e+00	1.842383e+00
## result.9365	3	1.842587e+00	1.842583e+00

## result.9366	3	1.842787e+00	1.842783e+00
## result.9367	3	1.842987e+00	1.842984e+00
## result.9368	3	1.843187e+00	1.843184e+00
## result.9369	3	1.843387e+00	1.843384e+00
## result.9370	3	1.843587e+00	1.843584e+00
## result.9371	3	1.843787e+00	1.843784e+00
## result.9372	3	1.843987e+00	1.843984e+00
## result.9373	3	1.844187e+00	1.844184e+00
## result.9374	3	1.844387e+00	1.844384e+00
## result.9375	3	1.844587e+00	1.844584e+00
## result.9376	3	1.844787e+00	1.844784e+00
## result.9377	3	1.844987e+00	1.844984e+00
## result.9378	3	1.845187e+00	1.845184e+00
## result.9379	3	1.845387e+00	1.845384e+00
## result.9380	3	1.845587e+00	1.845584e+00
## result.9381	3	1.845787e+00	1.845784e+00
## result.9382	3	1.845987e+00	1.845984e+00
## result.9383	3	1.846187e+00	1.846184e+00
## result.9384	3	1.846387e+00	1.846384e+00
## result.9385	3	1.846587e+00	1.846584e+00
## result.9386	3	1.846787e+00	1.846784e+00
## result.9387	3	1.846987e+00	1.846984e+00
## result.9388	3	1.847187e+00	1.847184e+00
## result.9389	3	1.847387e+00	1.847384e+00
## result.9390	3	1.847587e+00	1.847584e+00
## result.9391	3	1.847787e+00	1.847784e+00
## result.9392	3	1.847987e+00	1.847984e+00
## result.9393	3	1.848187e+00	1.848184e+00
## result.9394	3	1.848387e+00	1.848384e+00
## result.9395	3	1.848587e+00	1.848584e+00
## result.9396	3	1.848787e+00	1.848784e+00
## result.9397	3	1.848987e+00	1.848984e+00
## result.9398	3	1.849187e+00	1.849184e+00
## result.9399	3	1.849387e+00	1.849384e+00
## result.9400	3	1.849587e+00	1.849584e+00
## result.9401	3	1.849787e+00	1.849784e+00
## result.9402	3	1.849987e+00	1.849984e+00
## result.9403	3	1.850187e+00	1.850184e+00
## result.9404	3	1.850388e+00	1.850384e+00
## result.9405	3	1.850588e+00	1.850584e+00
## result.9406	3	1.850788e+00	1.850784e+00
## result.9407	3	1.850988e+00	1.850984e+00
## result.9408	3	1.851188e+00	1.851184e+00
## result.9409	3	1.851388e+00	1.851384e+00
## result.9410	3	1.851588e+00	1.851584e+00
## result.9411	3	1.851788e+00	1.851784e+00
## result.9412	3	1.851988e+00	1.851984e+00
## result.9413	3	1.852188e+00	1.852184e+00
## result.9414	3	1.852388e+00	1.852384e+00
## result.9415	3	1.852588e+00	1.852584e+00
## result.9416	3	1.852788e+00	1.852784e+00
## result.9417	3	1.852988e+00	1.852984e+00
## result.9418	3	1.853188e+00	1.853184e+00
## result.9419	3	1.853388e+00	1.853384e+00

## result.9420	3	1.853588e+00	1.853585e+00
## result.9421	3	1.853788e+00	1.853785e+00
## result.9422	3	1.853988e+00	1.853985e+00
## result.9423	3	1.854188e+00	1.854185e+00
## result.9424	3	1.854388e+00	1.854385e+00
## result.9425	3	1.854588e+00	1.854585e+00
## result.9426	3	1.854788e+00	1.854785e+00
## result.9427	3	1.854988e+00	1.854985e+00
## result.9428	3	1.855188e+00	1.855185e+00
## result.9429	3	1.855388e+00	1.855385e+00
## result.9430	3	1.855588e+00	1.855585e+00
## result.9431	3	1.855788e+00	1.855785e+00
## result.9432	3	1.855988e+00	1.855985e+00
## result.9433	3	1.856188e+00	1.856185e+00
## result.9434	3	1.856388e+00	1.856385e+00
## result.9435	3	1.856588e+00	1.856585e+00
## result.9436	3	1.856788e+00	1.856785e+00
## result.9437	3	1.856988e+00	1.856985e+00
## result.9438	3	1.857188e+00	1.857185e+00
## result.9439	3	1.857388e+00	1.857385e+00
## result.9440	3	1.857588e+00	1.857585e+00
## result.9441	3	1.857788e+00	1.857785e+00
## result.9442	3	1.857988e+00	1.857985e+00
## result.9443	3	1.858188e+00	1.858185e+00
## result.9444	3	1.858388e+00	1.858385e+00
## result.9445	3	1.858588e+00	1.858585e+00
## result.9446	3	1.858788e+00	1.858785e+00
## result.9447	3	1.858988e+00	1.858985e+00
## result.9448	3	1.859188e+00	1.859185e+00
## result.9449	3	1.859388e+00	1.859385e+00
## result.9450	3	1.859588e+00	1.859585e+00
## result.9451	3	1.859788e+00	1.859785e+00
## result.9452	3	1.859988e+00	1.859985e+00
## result.9453	3	1.860188e+00	1.860185e+00
## result.9454	3	1.860389e+00	1.860385e+00
## result.9455	3	1.860589e+00	1.860585e+00
## result.9456	3	1.860789e+00	1.860785e+00
## result.9457	3	1.860989e+00	1.860985e+00
## result.9458	3	1.861189e+00	1.861185e+00
## result.9459	3	1.861389e+00	1.861385e+00
## result.9460	3	1.861589e+00	1.861585e+00
## result.9461	3	1.861789e+00	1.861785e+00
## result.9462	3	1.861989e+00	1.861985e+00
## result.9463	3	1.862189e+00	1.862185e+00
## result.9464	3	1.862389e+00	1.862385e+00
## result.9465	3	1.862589e+00	1.862585e+00
## result.9466	3	1.862789e+00	1.862785e+00
## result.9467	3	1.862989e+00	1.862985e+00
## result.9468	3	1.863189e+00	1.863185e+00
## result.9469	3	1.863389e+00	1.863385e+00
## result.9470	3	1.863589e+00	1.863585e+00
## result.9471	3	1.863789e+00	1.863785e+00
## result.9472	3	1.863989e+00	1.863986e+00
## result.9473	3	1.864189e+00	1.864186e+00

## result.9474	3	1.864389e+00	1.864386e+00
## result.9475	3	1.864589e+00	1.864586e+00
## result.9476	3	1.864789e+00	1.864786e+00
## result.9477	3	1.864989e+00	1.864986e+00
## result.9478	3	1.865189e+00	1.865186e+00
## result.9479	3	1.865389e+00	1.865386e+00
## result.9480	3	1.865589e+00	1.865586e+00
## result.9481	3	1.865789e+00	1.865786e+00
## result.9482	3	1.865989e+00	1.865986e+00
## result.9483	3	1.866189e+00	1.866186e+00
## result.9484	3	1.866389e+00	1.866386e+00
## result.9485	3	1.866589e+00	1.866586e+00
## result.9486	3	1.866789e+00	1.866786e+00
## result.9487	3	1.866989e+00	1.866986e+00
## result.9488	3	1.867189e+00	1.867186e+00
## result.9489	3	1.867389e+00	1.867386e+00
## result.9490	3	1.867589e+00	1.867586e+00
## result.9491	3	1.867789e+00	1.867786e+00
## result.9492	3	1.867989e+00	1.867986e+00
## result.9493	3	1.868189e+00	1.868186e+00
## result.9494	3	1.868389e+00	1.868386e+00
## result.9495	3	1.868589e+00	1.868586e+00
## result.9496	3	1.868789e+00	1.868786e+00
## result.9497	3	1.868989e+00	1.868986e+00
## result.9498	3	1.869189e+00	1.869186e+00
## result.9499	3	1.869389e+00	1.869386e+00
## result.9500	3	1.869589e+00	1.869586e+00
## result.9501	3	1.869789e+00	1.869786e+00
## result.9502	3	1.869989e+00	1.869986e+00
## result.9503	3	1.870189e+00	1.870186e+00
## result.9504	3	1.870389e+00	1.870386e+00
## result.9505	3	1.870590e+00	1.870586e+00
## result.9506	3	1.870790e+00	1.870786e+00
## result.9507	3	1.870990e+00	1.870986e+00
## result.9508	3	1.871190e+00	1.871186e+00
## result.9509	3	1.871390e+00	1.871386e+00
## result.9510	3	1.871590e+00	1.871586e+00
## result.9511	3	1.871790e+00	1.871786e+00
## result.9512	3	1.871990e+00	1.871986e+00
## result.9513	3	1.872190e+00	1.872186e+00
## result.9514	3	1.872390e+00	1.872386e+00
## result.9515	3	1.872590e+00	1.872586e+00
## result.9516	3	1.872790e+00	1.872786e+00
## result.9517	3	1.872990e+00	1.872986e+00
## result.9518	3	1.873190e+00	1.873186e+00
## result.9519	3	1.873390e+00	1.873386e+00
## result.9520	3	1.873590e+00	1.873586e+00
## result.9521	3	1.873790e+00	1.873786e+00
## result.9522	3	1.873990e+00	1.873986e+00
## result.9523	3	1.874190e+00	1.874186e+00
## result.9524	3	1.874390e+00	1.874387e+00
## result.9525	3	1.874590e+00	1.874587e+00
## result.9526	3	1.874790e+00	1.874787e+00
## result.9527	3	1.874990e+00	1.874987e+00

## result.9528	3	1.875190e+00	1.875187e+00
## result.9529	3	1.875390e+00	1.875387e+00
## result.9530	3	1.875590e+00	1.875587e+00
## result.9531	3	1.875790e+00	1.875787e+00
## result.9532	3	1.875990e+00	1.875987e+00
## result.9533	3	1.876190e+00	1.876187e+00
## result.9534	3	1.876390e+00	1.876387e+00
## result.9535	3	1.876590e+00	1.876587e+00
## result.9536	3	1.876790e+00	1.876787e+00
## result.9537	3	1.876990e+00	1.876987e+00
## result.9538	3	1.877190e+00	1.877187e+00
## result.9539	3	1.877390e+00	1.877387e+00
## result.9540	3	1.877590e+00	1.877587e+00
## result.9541	3	1.877790e+00	1.877787e+00
## result.9542	3	1.877990e+00	1.877987e+00
## result.9543	3	1.878190e+00	1.878187e+00
## result.9544	3	1.878390e+00	1.878387e+00
## result.9545	3	1.878590e+00	1.878587e+00
## result.9546	3	1.878790e+00	1.878787e+00
## result.9547	3	1.878990e+00	1.878987e+00
## result.9548	3	1.879190e+00	1.879187e+00
## result.9549	3	1.879390e+00	1.879387e+00
## result.9550	3	1.879590e+00	1.879587e+00
## result.9551	3	1.879790e+00	1.879787e+00
## result.9552	3	1.879990e+00	1.879987e+00
## result.9553	3	1.880190e+00	1.880187e+00
## result.9554	3	1.880390e+00	1.880387e+00
## result.9555	3	1.880591e+00	1.880587e+00
## result.9556	3	1.880791e+00	1.880787e+00
## result.9557	3	1.880991e+00	1.880987e+00
## result.9558	3	1.881191e+00	1.881187e+00
## result.9559	3	1.881391e+00	1.881387e+00
## result.9560	3	1.881591e+00	1.881587e+00
## result.9561	3	1.881791e+00	1.881787e+00
## result.9562	3	1.881991e+00	1.881987e+00
## result.9563	3	1.882191e+00	1.882187e+00
## result.9564	3	1.882391e+00	1.882387e+00
## result.9565	3	1.882591e+00	1.882587e+00
## result.9566	3	1.882791e+00	1.882787e+00
## result.9567	3	1.882991e+00	1.882987e+00
## result.9568	3	1.883191e+00	1.883187e+00
## result.9569	3	1.883391e+00	1.883387e+00
## result.9570	3	1.883591e+00	1.883587e+00
## result.9571	3	1.883791e+00	1.883787e+00
## result.9572	3	1.883991e+00	1.883987e+00
## result.9573	3	1.884191e+00	1.884187e+00
## result.9574	3	1.884391e+00	1.884387e+00
## result.9575	3	1.884591e+00	1.884587e+00
## result.9576	3	1.884791e+00	1.884788e+00
## result.9577	3	1.884991e+00	1.884988e+00
## result.9578	3	1.885191e+00	1.885188e+00
## result.9579	3	1.885391e+00	1.885388e+00
## result.9580	3	1.885591e+00	1.885588e+00
## result.9581	3	1.885791e+00	1.885788e+00

## result.9582	3	1.885991e+00	1.885988e+00
## result.9583	3	1.886191e+00	1.886188e+00
## result.9584	3	1.886391e+00	1.886388e+00
## result.9585	3	1.886591e+00	1.886588e+00
## result.9586	3	1.886791e+00	1.886788e+00
## result.9587	3	1.886991e+00	1.886988e+00
## result.9588	3	1.887191e+00	1.887188e+00
## result.9589	3	1.887391e+00	1.887388e+00
## result.9590	3	1.887591e+00	1.887588e+00
## result.9591	3	1.887791e+00	1.887788e+00
## result.9592	3	1.887991e+00	1.887988e+00
## result.9593	3	1.888191e+00	1.888188e+00
## result.9594	3	1.888391e+00	1.888388e+00
## result.9595	3	1.888591e+00	1.888588e+00
## result.9596	3	1.888791e+00	1.888788e+00
## result.9597	3	1.888991e+00	1.888988e+00
## result.9598	3	1.889191e+00	1.889188e+00
## result.9599	3	1.889391e+00	1.889388e+00
## result.9600	3	1.889591e+00	1.889588e+00
## result.9601	3	1.889791e+00	1.889788e+00
## result.9602	3	1.889991e+00	1.889988e+00
## result.9603	3	1.890191e+00	1.890188e+00
## result.9604	3	1.890391e+00	1.890388e+00
## result.9605	3	1.890592e+00	1.890588e+00
## result.9606	3	1.890792e+00	1.890788e+00
## result.9607	3	1.890992e+00	1.890988e+00
## result.9608	3	1.891192e+00	1.891188e+00
## result.9609	3	1.891392e+00	1.891388e+00
## result.9610	3	1.891592e+00	1.891588e+00
## result.9611	3	1.891792e+00	1.891788e+00
## result.9612	3	1.891992e+00	1.891988e+00
## result.9613	3	1.892192e+00	1.892188e+00
## result.9614	3	1.892392e+00	1.892388e+00
## result.9615	3	1.892592e+00	1.892588e+00
## result.9616	3	1.892792e+00	1.892788e+00
## result.9617	3	1.892992e+00	1.892988e+00
## result.9618	3	1.893192e+00	1.893188e+00
## result.9619	3	1.893392e+00	1.893388e+00
## result.9620	3	1.893592e+00	1.893588e+00
## result.9621	3	1.893792e+00	1.893788e+00
## result.9622	3	1.893992e+00	1.893988e+00
## result.9623	3	1.894192e+00	1.894188e+00
## result.9624	3	1.894392e+00	1.894388e+00
## result.9625	3	1.894592e+00	1.894588e+00
## result.9626	3	1.894792e+00	1.894788e+00
## result.9627	3	1.894992e+00	1.894988e+00
## result.9628	3	1.895192e+00	1.895188e+00
## result.9629	3	1.895392e+00	1.895389e+00
## result.9630	3	1.895592e+00	1.895589e+00
## result.9631	3	1.895792e+00	1.895789e+00
## result.9632	3	1.895992e+00	1.895989e+00
## result.9633	3	1.896192e+00	1.896189e+00
## result.9634	3	1.896392e+00	1.896389e+00
## result.9635	3	1.896592e+00	1.896589e+00

## result.9636	3	1.896792e+00	1.896789e+00
## result.9637	3	1.896992e+00	1.896989e+00
## result.9638	3	1.897192e+00	1.897189e+00
## result.9639	3	1.897392e+00	1.897389e+00
## result.9640	3	1.897592e+00	1.897589e+00
## result.9641	3	1.897792e+00	1.897789e+00
## result.9642	3	1.897992e+00	1.897989e+00
## result.9643	3	1.898192e+00	1.898189e+00
## result.9644	3	1.898392e+00	1.898389e+00
## result.9645	3	1.898592e+00	1.898589e+00
## result.9646	3	1.898792e+00	1.898789e+00
## result.9647	3	1.898992e+00	1.898989e+00
## result.9648	3	1.899192e+00	1.899189e+00
## result.9649	3	1.899392e+00	1.899389e+00
## result.9650	3	1.899592e+00	1.899589e+00
## result.9651	3	1.899792e+00	1.899789e+00
## result.9652	3	1.899992e+00	1.899989e+00
## result.9653	3	1.900192e+00	1.900189e+00
## result.9654	3	1.900392e+00	1.900389e+00
## result.9655	3	1.900592e+00	1.900589e+00
## result.9656	3	1.900793e+00	1.900789e+00
## result.9657	3	1.900993e+00	1.900989e+00
## result.9658	3	1.901193e+00	1.901189e+00
## result.9659	3	1.901393e+00	1.901389e+00
## result.9660	3	1.901593e+00	1.901589e+00
## result.9661	3	1.901793e+00	1.901789e+00
## result.9662	3	1.901993e+00	1.901989e+00
## result.9663	3	1.902193e+00	1.902189e+00
## result.9664	3	1.902393e+00	1.902389e+00
## result.9665	3	1.902593e+00	1.902589e+00
## result.9666	3	1.902793e+00	1.902789e+00
## result.9667	3	1.902993e+00	1.902989e+00
## result.9668	3	1.903193e+00	1.903189e+00
## result.9669	3	1.903393e+00	1.903389e+00
## result.9670	3	1.903593e+00	1.903589e+00
## result.9671	3	1.903793e+00	1.903789e+00
## result.9672	3	1.903993e+00	1.903989e+00
## result.9673	3	1.904193e+00	1.904189e+00
## result.9674	3	1.904393e+00	1.904389e+00
## result.9675	3	1.904593e+00	1.904589e+00
## result.9676	3	1.904793e+00	1.904789e+00
## result.9677	3	1.904993e+00	1.904989e+00
## result.9678	3	1.905193e+00	1.905189e+00
## result.9679	3	1.905393e+00	1.905389e+00
## result.9680	3	1.905593e+00	1.905589e+00
## result.9681	3	1.905793e+00	1.905790e+00
## result.9682	3	1.905993e+00	1.905990e+00
## result.9683	3	1.906193e+00	1.906190e+00
## result.9684	3	1.906393e+00	1.906390e+00
## result.9685	3	1.906593e+00	1.906590e+00
## result.9686	3	1.906793e+00	1.906790e+00
## result.9687	3	1.906993e+00	1.906990e+00
## result.9688	3	1.907193e+00	1.907190e+00
## result.9689	3	1.907393e+00	1.907390e+00

## result.9690	3	1.907593e+00	1.907590e+00
## result.9691	3	1.907793e+00	1.907790e+00
## result.9692	3	1.907993e+00	1.907990e+00
## result.9693	3	1.908193e+00	1.908190e+00
## result.9694	3	1.908393e+00	1.908390e+00
## result.9695	3	1.908593e+00	1.908590e+00
## result.9696	3	1.908793e+00	1.908790e+00
## result.9697	3	1.908993e+00	1.908990e+00
## result.9698	3	1.909193e+00	1.909190e+00
## result.9699	3	1.909393e+00	1.909390e+00
## result.9700	3	1.909593e+00	1.909590e+00
## result.9701	3	1.909793e+00	1.909790e+00
## result.9702	3	1.909993e+00	1.909990e+00
## result.9703	3	1.910193e+00	1.910190e+00
## result.9704	3	1.910393e+00	1.910390e+00
## result.9705	3	1.910593e+00	1.910590e+00
## result.9706	3	1.910794e+00	1.910790e+00
## result.9707	3	1.910994e+00	1.910990e+00
## result.9708	3	1.911194e+00	1.911190e+00
## result.9709	3	1.911394e+00	1.911390e+00
## result.9710	3	1.911594e+00	1.911590e+00
## result.9711	3	1.911794e+00	1.911790e+00
## result.9712	3	1.911994e+00	1.911990e+00
## result.9713	3	1.912194e+00	1.912190e+00
## result.9714	3	1.912394e+00	1.912390e+00
## result.9715	3	1.912594e+00	1.912590e+00
## result.9716	3	1.912794e+00	1.912790e+00
## result.9717	3	1.912994e+00	1.912990e+00
## result.9718	3	1.913194e+00	1.913190e+00
## result.9719	3	1.913394e+00	1.913390e+00
## result.9720	3	1.913594e+00	1.913590e+00
## result.9721	3	1.913794e+00	1.913790e+00
## result.9722	3	1.913994e+00	1.913990e+00
## result.9723	3	1.914194e+00	1.914190e+00
## result.9724	3	1.914394e+00	1.914390e+00
## result.9725	3	1.914594e+00	1.914590e+00
## result.9726	3	1.914794e+00	1.914790e+00
## result.9727	3	1.914994e+00	1.914990e+00
## result.9728	3	1.915194e+00	1.915190e+00
## result.9729	3	1.915394e+00	1.915390e+00
## result.9730	3	1.915594e+00	1.915590e+00
## result.9731	3	1.915794e+00	1.915790e+00
## result.9732	3	1.915994e+00	1.915990e+00
## result.9733	3	1.916194e+00	1.916191e+00
## result.9734	3	1.916394e+00	1.916391e+00
## result.9735	3	1.916594e+00	1.916591e+00
## result.9736	3	1.916794e+00	1.916791e+00
## result.9737	3	1.916994e+00	1.916991e+00
## result.9738	3	1.917194e+00	1.917191e+00
## result.9739	3	1.917394e+00	1.917391e+00
## result.9740	3	1.917594e+00	1.917591e+00
## result.9741	3	1.917794e+00	1.917791e+00
## result.9742	3	1.917994e+00	1.917991e+00
## result.9743	3	1.918194e+00	1.918191e+00

## result.9744	3	1.918394e+00	1.918391e+00
## result.9745	3	1.918594e+00	1.918591e+00
## result.9746	3	1.918794e+00	1.918791e+00
## result.9747	3	1.918994e+00	1.918991e+00
## result.9748	3	1.919194e+00	1.919191e+00
## result.9749	3	1.919394e+00	1.919391e+00
## result.9750	3	1.919594e+00	1.919591e+00
## result.9751	3	1.919794e+00	1.919791e+00
## result.9752	3	1.919994e+00	1.919991e+00
## result.9753	3	1.920194e+00	1.920191e+00
## result.9754	3	1.920394e+00	1.920391e+00
## result.9755	3	1.920594e+00	1.920591e+00
## result.9756	3	1.920795e+00	1.920791e+00
## result.9757	3	1.920995e+00	1.920991e+00
## result.9758	3	1.921195e+00	1.921191e+00
## result.9759	3	1.921395e+00	1.921391e+00
## result.9760	3	1.921595e+00	1.921591e+00
## result.9761	3	1.921795e+00	1.921791e+00
## result.9762	3	1.921995e+00	1.921991e+00
## result.9763	3	1.922195e+00	1.922191e+00
## result.9764	3	1.922395e+00	1.922391e+00
## result.9765	3	1.922595e+00	1.922591e+00
## result.9766	3	1.922795e+00	1.922791e+00
## result.9767	3	1.922995e+00	1.922991e+00
## result.9768	3	1.923195e+00	1.923191e+00
## result.9769	3	1.923395e+00	1.923391e+00
## result.9770	3	1.923595e+00	1.923591e+00
## result.9771	3	1.923795e+00	1.923791e+00
## result.9772	3	1.923995e+00	1.923991e+00
## result.9773	3	1.924195e+00	1.924191e+00
## result.9774	3	1.924395e+00	1.924391e+00
## result.9775	3	1.924595e+00	1.924591e+00
## result.9776	3	1.924795e+00	1.924791e+00
## result.9777	3	1.924995e+00	1.924991e+00
## result.9778	3	1.925195e+00	1.925191e+00
## result.9779	3	1.925395e+00	1.925391e+00
## result.9780	3	1.925595e+00	1.925591e+00
## result.9781	3	1.925795e+00	1.925791e+00
## result.9782	3	1.925995e+00	1.925991e+00
## result.9783	3	1.926195e+00	1.926191e+00
## result.9784	3	1.926395e+00	1.926391e+00
## result.9785	3	1.926595e+00	1.926591e+00
## result.9786	3	1.926795e+00	1.926792e+00
## result.9787	3	1.926995e+00	1.926992e+00
## result.9788	3	1.927195e+00	1.927192e+00
## result.9789	3	1.927395e+00	1.927392e+00
## result.9790	3	1.927595e+00	1.927592e+00
## result.9791	3	1.927795e+00	1.927792e+00
## result.9792	3	1.927995e+00	1.927992e+00
## result.9793	3	1.928195e+00	1.928192e+00
## result.9794	3	1.928395e+00	1.928392e+00
## result.9795	3	1.928595e+00	1.928592e+00
## result.9796	3	1.928795e+00	1.928792e+00
## result.9797	3	1.928995e+00	1.928992e+00

## result.9798	3	1.929195e+00	1.929192e+00
## result.9799	3	1.929395e+00	1.929392e+00
## result.9800	3	1.929595e+00	1.929592e+00
## result.9801	3	1.929795e+00	1.929792e+00
## result.9802	3	1.929995e+00	1.929992e+00
## result.9803	3	1.930195e+00	1.930192e+00
## result.9804	3	1.930395e+00	1.930392e+00
## result.9805	3	1.930595e+00	1.930592e+00
## result.9806	3	1.930795e+00	1.930792e+00
## result.9807	3	1.930996e+00	1.930992e+00
## result.9808	3	1.931196e+00	1.931192e+00
## result.9809	3	1.931396e+00	1.931392e+00
## result.9810	3	1.931596e+00	1.931592e+00
## result.9811	3	1.931796e+00	1.931792e+00
## result.9812	3	1.931996e+00	1.931992e+00
## result.9813	3	1.932196e+00	1.932192e+00
## result.9814	3	1.932396e+00	1.932392e+00
## result.9815	3	1.932596e+00	1.932592e+00
## result.9816	3	1.932796e+00	1.932792e+00
## result.9817	3	1.932996e+00	1.932992e+00
## result.9818	3	1.933196e+00	1.933192e+00
## result.9819	3	1.933396e+00	1.933392e+00
## result.9820	3	1.933596e+00	1.933592e+00
## result.9821	3	1.933796e+00	1.933792e+00
## result.9822	3	1.933996e+00	1.933992e+00
## result.9823	3	1.934196e+00	1.934192e+00
## result.9824	3	1.934396e+00	1.934392e+00
## result.9825	3	1.934596e+00	1.934592e+00
## result.9826	3	1.934796e+00	1.934792e+00
## result.9827	3	1.934996e+00	1.934992e+00
## result.9828	3	1.935196e+00	1.935192e+00
## result.9829	3	1.935396e+00	1.935392e+00
## result.9830	3	1.935596e+00	1.935592e+00
## result.9831	3	1.935796e+00	1.935792e+00
## result.9832	3	1.935996e+00	1.935992e+00
## result.9833	3	1.936196e+00	1.936192e+00
## result.9834	3	1.936396e+00	1.936392e+00
## result.9835	3	1.936596e+00	1.936592e+00
## result.9836	3	1.936796e+00	1.936792e+00
## result.9837	3	1.936996e+00	1.936992e+00
## result.9838	3	1.937196e+00	1.937193e+00
## result.9839	3	1.937396e+00	1.937393e+00
## result.9840	3	1.937596e+00	1.937593e+00
## result.9841	3	1.937796e+00	1.937793e+00
## result.9842	3	1.937996e+00	1.937993e+00
## result.9843	3	1.938196e+00	1.938193e+00
## result.9844	3	1.938396e+00	1.938393e+00
## result.9845	3	1.938596e+00	1.938593e+00
## result.9846	3	1.938796e+00	1.938793e+00
## result.9847	3	1.938996e+00	1.938993e+00
## result.9848	3	1.939196e+00	1.939193e+00
## result.9849	3	1.939396e+00	1.939393e+00
## result.9850	3	1.939596e+00	1.939593e+00
## result.9851	3	1.939796e+00	1.939793e+00

## result.9852	3	1.939996e+00	1.939993e+00
## result.9853	3	1.940196e+00	1.940193e+00
## result.9854	3	1.940396e+00	1.940393e+00
## result.9855	3	1.940596e+00	1.940593e+00
## result.9856	3	1.940796e+00	1.940793e+00
## result.9857	3	1.940997e+00	1.940993e+00
## result.9858	3	1.941197e+00	1.941193e+00
## result.9859	3	1.941397e+00	1.941393e+00
## result.9860	3	1.941597e+00	1.941593e+00
## result.9861	3	1.941797e+00	1.941793e+00
## result.9862	3	1.941997e+00	1.941993e+00
## result.9863	3	1.942197e+00	1.942193e+00
## result.9864	3	1.942397e+00	1.942393e+00
## result.9865	3	1.942597e+00	1.942593e+00
## result.9866	3	1.942797e+00	1.942793e+00
## result.9867	3	1.942997e+00	1.942993e+00
## result.9868	3	1.943197e+00	1.943193e+00
## result.9869	3	1.943397e+00	1.943393e+00
## result.9870	3	1.943597e+00	1.943593e+00
## result.9871	3	1.943797e+00	1.943793e+00
## result.9872	3	1.943997e+00	1.943993e+00
## result.9873	3	1.944197e+00	1.944193e+00
## result.9874	3	1.944397e+00	1.944393e+00
## result.9875	3	1.944597e+00	1.944593e+00
## result.9876	3	1.944797e+00	1.944793e+00
## result.9877	3	1.944997e+00	1.944993e+00
## result.9878	3	1.945197e+00	1.945193e+00
## result.9879	3	1.945397e+00	1.945393e+00
## result.9880	3	1.945597e+00	1.945593e+00
## result.9881	3	1.945797e+00	1.945793e+00
## result.9882	3	1.945997e+00	1.945993e+00
## result.9883	3	1.946197e+00	1.946193e+00
## result.9884	3	1.946397e+00	1.946393e+00
## result.9885	3	1.946597e+00	1.946593e+00
## result.9886	3	1.946797e+00	1.946793e+00
## result.9887	3	1.946997e+00	1.946993e+00
## result.9888	3	1.947197e+00	1.947193e+00
## result.9889	3	1.947397e+00	1.947393e+00
## result.9890	3	1.947597e+00	1.947594e+00
## result.9891	3	1.947797e+00	1.947794e+00
## result.9892	3	1.947997e+00	1.947994e+00
## result.9893	3	1.948197e+00	1.948194e+00
## result.9894	3	1.948397e+00	1.948394e+00
## result.9895	3	1.948597e+00	1.948594e+00
## result.9896	3	1.948797e+00	1.948794e+00
## result.9897	3	1.948997e+00	1.948994e+00
## result.9898	3	1.949197e+00	1.949194e+00
## result.9899	3	1.949397e+00	1.949394e+00
## result.9900	3	1.949597e+00	1.949594e+00
## result.9901	3	1.949797e+00	1.949794e+00
## result.9902	3	1.949997e+00	1.949994e+00
## result.9903	3	1.950197e+00	1.950194e+00
## result.9904	3	1.950397e+00	1.950394e+00
## result.9905	3	1.950597e+00	1.950594e+00

## result.9906	3	1.950797e+00	1.950794e+00
## result.9907	3	1.950998e+00	1.950994e+00
## result.9908	3	1.951198e+00	1.951194e+00
## result.9909	3	1.951398e+00	1.951394e+00
## result.9910	3	1.951598e+00	1.951594e+00
## result.9911	3	1.951798e+00	1.951794e+00
## result.9912	3	1.951998e+00	1.951994e+00
## result.9913	3	1.952198e+00	1.952194e+00
## result.9914	3	1.952398e+00	1.952394e+00
## result.9915	3	1.952598e+00	1.952594e+00
## result.9916	3	1.952798e+00	1.952794e+00
## result.9917	3	1.952998e+00	1.952994e+00
## result.9918	3	1.953198e+00	1.953194e+00
## result.9919	3	1.953398e+00	1.953394e+00
## result.9920	3	1.953598e+00	1.953594e+00
## result.9921	3	1.953798e+00	1.953794e+00
## result.9922	3	1.953998e+00	1.953994e+00
## result.9923	3	1.954198e+00	1.954194e+00
## result.9924	3	1.954398e+00	1.954394e+00
## result.9925	3	1.954598e+00	1.954594e+00
## result.9926	3	1.954798e+00	1.954794e+00
## result.9927	3	1.954998e+00	1.954994e+00
## result.9928	3	1.955198e+00	1.955194e+00
## result.9929	3	1.955398e+00	1.955394e+00
## result.9930	3	1.955598e+00	1.955594e+00
## result.9931	3	1.955798e+00	1.955794e+00
## result.9932	3	1.955998e+00	1.955994e+00
## result.9933	3	1.956198e+00	1.956194e+00
## result.9934	3	1.956398e+00	1.956394e+00
## result.9935	3	1.956598e+00	1.956594e+00
## result.9936	3	1.956798e+00	1.956794e+00
## result.9937	3	1.956998e+00	1.956994e+00
## result.9938	3	1.957198e+00	1.957194e+00
## result.9939	3	1.957398e+00	1.957394e+00
## result.9940	3	1.957598e+00	1.957594e+00
## result.9941	3	1.957798e+00	1.957794e+00
## result.9942	3	1.957998e+00	1.957994e+00
## result.9943	3	1.958198e+00	1.958195e+00
## result.9944	3	1.958398e+00	1.958395e+00
## result.9945	3	1.958598e+00	1.958595e+00
## result.9946	3	1.958798e+00	1.958795e+00
## result.9947	3	1.958998e+00	1.958995e+00
## result.9948	3	1.959198e+00	1.959195e+00
## result.9949	3	1.959398e+00	1.959395e+00
## result.9950	3	1.959598e+00	1.959595e+00
## result.9951	3	1.959798e+00	1.959795e+00
## result.9952	3	1.959998e+00	1.959995e+00
## result.9953	3	1.960198e+00	1.960195e+00
## result.9954	3	1.960398e+00	1.960395e+00
## result.9955	3	1.960598e+00	1.960595e+00
## result.9956	3	1.960798e+00	1.960795e+00
## result.9957	3	1.960998e+00	1.960995e+00
## result.9958	3	1.961199e+00	1.961195e+00
## result.9959	3	1.961399e+00	1.961395e+00

```
## result.9960      3  1.961599e+00  1.961595e+00
## result.9961      3  1.961799e+00  1.961795e+00
## result.9962      3  1.961999e+00  1.961995e+00
## result.9963      3  1.962199e+00  1.962195e+00
## result.9964      3  1.962399e+00  1.962395e+00
## result.9965      3  1.962599e+00  1.962595e+00
## result.9966      3  1.962799e+00  1.962795e+00
## result.9967      3  1.962999e+00  1.962995e+00
## result.9968      3  1.963199e+00  1.963195e+00
## result.9969      3  1.963399e+00  1.963395e+00
## result.9970      3  1.963599e+00  1.963595e+00
## result.9971      3  1.963799e+00  1.963795e+00
## result.9972      3  1.963999e+00  1.963995e+00
## result.9973      3  1.964199e+00  1.964195e+00
## result.9974      3  1.964399e+00  1.964395e+00
## result.9975      3  1.964599e+00  1.964595e+00
## result.9976      3  1.964799e+00  1.964795e+00
## result.9977      3  1.964999e+00  1.964995e+00
## result.9978      3  1.965199e+00  1.965195e+00
## result.9979      3  1.965399e+00  1.965395e+00
## result.9980      3  1.965599e+00  1.965595e+00
## result.9981      3  1.965799e+00  1.965795e+00
## result.9982      3  1.965999e+00  1.965995e+00
## result.9983      3  1.966199e+00  1.966195e+00
## result.9984      3  1.966399e+00  1.966395e+00
## result.9985      3  1.966599e+00  1.966595e+00
## result.9986      3  1.966799e+00  1.966795e+00
## result.9987      3  1.966999e+00  1.966995e+00
## result.9988      3  1.967199e+00  1.967195e+00
## result.9989      3  1.967399e+00  1.967395e+00
## result.9990      3  1.967599e+00  1.967595e+00
## result.9991      3  1.967799e+00  1.967795e+00
## result.9992      3  1.967999e+00  1.967995e+00
## result.9993      3  1.968199e+00  1.968195e+00
## result.9994      3  1.968399e+00  1.968395e+00
## result.9995      3  1.968599e+00  1.968596e+00
## result.9996      3  1.968799e+00  1.968796e+00
## result.9997      3  1.968999e+00  1.968996e+00
## result.9998      3  1.969199e+00  1.969196e+00
## result.9999      3  1.969399e+00  1.969396e+00
## result.10000     3  1.969599e+00  1.969596e+00
```

```
print("mean")
```

```
## [1] "mean"
```

```
mean(listP3.1$rounds)
```

```
## [1] 2.9983
```

```
print("stdev")
```

```
## [1] "stdev"
```

```
sd(listP3.1$rounds)
```

```
## [1] 0.04119805
```

```
stopCluster(cl)
```

P4

I think he means finding the inverse of a matrix after factoring it is much faster. <https://www.johndcook.com/blog/2010/01/19/dont-invert-that-matrix/> <http://home.cc.umanitoba.ca/~farhadi/Math2120/Inverse%20Using%20LU%20decomposition.pdf>

```
theta <- as.matrix(c(1,2),nrow=2)
X <- cbind(1,rep(1:10,10))
h <- X%%theta+rnorm(100,0,0.2)
betahat<-solve(t(X)%*%X)%*(t(X))%*%h
betahat
```

```
##           [,1]
## [1,] 1.017292
## [2,] 2.000705
```

P5

Part a

```
set.seed(12456)
G <- matrix(sample(c(0,0.5,1),size=16000,replace=T),ncol=10)
R <- cor(G) # R: 10 * 10 correlation matrix of G
C <- kronecker(R, diag(1600)) # C is a 16000 * 16000 block diagonal matrix
id <- sample(1:16000,size=932,replace=F)
q <- sample(c(0,0.5,1),size=15068,replace=T) # vector of length 15068
A <- C[id, -id] # matrix of dimension 932 * 15068
B <- C[-id, -id] # matrix of dimension 15068 * 15068
p <- runif(932,0,1)
r <- runif(15068,0,1)
C<-NULL #save some memory space
object.size(A)
```

```
## 112347224 bytes
```

```
object.size(B)
```

```
## 1816357208 bytes
```

```
#The following line is too long to run
#system.time(p+A%*(solve(B))%*(q-r))
```

Part b

I modified the calculating order because I think multiplying a matrix with a vector is faster than multiplying matrixes. Sorry professor I didn't run the code below because my computer can't bear it even after parallellization.

```
cores<-detectCores()-1
cl<-makeForkCluster(cores)
registerDoParallel(cl)

matprod.par <- function(cl, A, B){
  if (ncol(A) != nrow(B)) stop("Matrices do not conforme")
  idx <- splitIndices(nrow(A), length(cl))
  Alist <- lapply(idx, function(ii) A[ii,,drop=FALSE])
  ans <- clusterApply(cl, Alist, get("%*%"), B)
  do.call(rbind, ans)}

#Initial order
#step1<-matprod.par(cl, A, solve(B))
#step2<-matprod.par(cl, step1, q-r)

#modified order Just 15068+932 lines
#Still too long to run on my computer
#step1<-matprod.par(cl,solve(B),q-r)
#step2<-matprod.par(cl,A, step1)

stopCluster(cl)
```

P6 Proportion of success in a vector

Part b

```
set.seed(12345)
#do 10 experiments, each is B(1,p) p for each trail is different
P4b_data <- matrix(rbinom(10, 1, prob = (31:40)/100), nrow = 10, ncol = 10, byrow = FALSE)
P4b_data
```

```
##      [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10]
## [1,]  1    1    1    1    1    1    1    1    1    1
## [2,]  1    1    1    1    1    1    1    1    1    1
## [3,]  1    1    1    1    1    1    1    1    1    1
## [4,]  1    1    1    1    1    1    1    1    1    1
## [5,]  0    0    0    0    0    0    0    0    0    0
## [6,]  0    0    0    0    0    0    0    0    0    0
## [7,]  0    0    0    0    0    0    0    0    0    0
## [8,]  0    0    0    0    0    0    0    0    0    0
```

```
## [9,] 1 1 1 1 1 1 1 1 1 1
## [10,] 1 1 1 1 1 1 1 1 1 1
```

Part c

```
A<-function(x) return(length(which(x==1))/10)
apply(P4b_data,2,A)#column
```

```
## [1] 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
```

```
apply(P4b_data,1,A)#row
```

```
## [1] 1 1 1 1 0 0 0 0 1 1
```

Part d

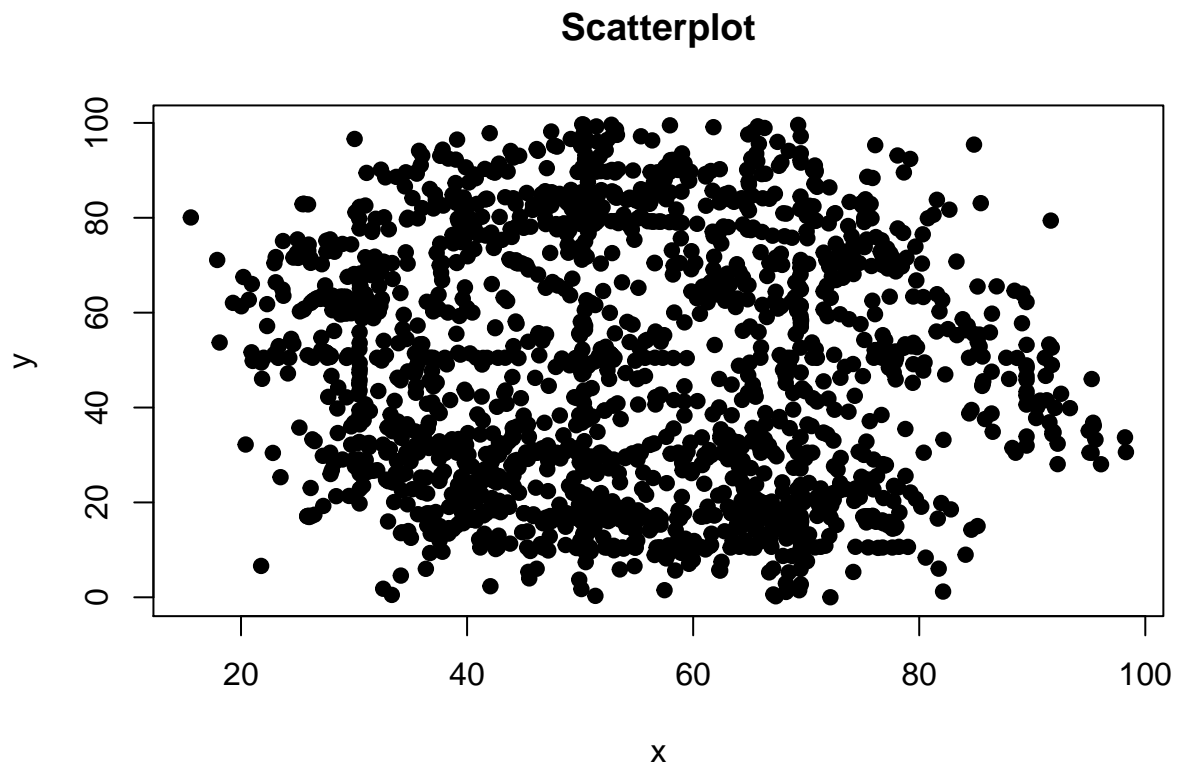
```
B<-function(x) return(rbinom(10, 1, prob = x))
P4b_data <- matrix(B((21:40)/100), nrow = 10, ncol = 10, byrow = FALSE)
P4b_data
```

```
##      [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10]
## [1,] 0 0 0 0 0 0 0 0 0 0
## [2,] 0 0 0 0 0 0 0 0 0 0
## [3,] 0 0 0 0 0 0 0 0 0 0
## [4,] 0 0 0 0 0 0 0 0 0 0
## [5,] 0 0 0 0 0 0 0 0 0 0
## [6,] 0 0 0 0 0 0 0 0 0 0
## [7,] 0 0 0 0 0 0 0 0 0 0
## [8,] 0 0 0 0 0 0 0 0 0 0
## [9,] 0 0 0 0 0 0 0 0 0 0
## [10,] 1 1 1 1 1 1 1 1 1 1
```

P7

Part a

```
b0<-readRDS("/Users/mac/Documents/5014/HW3_data.rds")
colnames(b0) <- c("Observer", "x", "y")
#plot(sort(b0$x), sort(b0$y), main="Scatterplot",
#      xlab="x", ylab="y", pch=19)
C<-function(x) return(plot(b0$x, b0$y, main="Scatterplot",
                           xlab="x", ylab="y", pch=19))
C(b0)
```



Part b

P8

Part a

```
download("http://www.farinspace.com/wp-content/uploads/us_cities_and_states.zip",dest="us_cities_states")
unzip("us_cities_states.zip", exdir=".")
library(data.table)
```

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

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

## The following objects are masked from 'package:xts':
##
##   first, last
```

```
states <- fread(input = "./us_cities_and_states/states.sql", skip = 23, sep = "'", sep2 = ",", header = F,
colnames(states)<-c("fullname", "states")
cities <- fread(input = "us_cities_and_states/cities.sql", skip = 23, sep = "'", sep2 = ",", header = F,
```

Part b

```
states1<-{}
NumCities<-{}
for (j in 1:length(unique(cities$V4)))
{states1<-rbind(states1,unique(cities$V4)[j])
  NumCities<-rbind(NumCities,length(which(cities$V4==unique(cities$V4)[j])))}
employ.data <- data.frame(states1,NumCities)
colnames(employ.data)<-c("states", "NumCities")
total <- merge(states,employ.data,by="states")
total
```

##	states	fullname	NumCities
## 1:	AK	Alaska	229
## 2:	AL	Alabama	579
## 3:	AR	Arkansas	605
## 4:	AZ	Arizona	264
## 5:	CA	California	1239
## 6:	CO	Colorado	400
## 7:	CT	Connecticut	269
## 8:	DC	District of Columbia	3
## 9:	DE	Delaware	57
## 10:	FL	Florida	524
## 11:	GA	Georgia	629
## 12:	HI	Hawaii	92
## 13:	IA	Iowa	937
## 14:	ID	Idaho	266
## 15:	IL	Illinois	1287
## 16:	IN	Indiana	738
## 17:	KS	Kansas	634
## 18:	KY	Kentucky	803
## 19:	LA	Louisiana	479
## 20:	MA	Massachusetts	511
## 21:	MD	Maryland	430
## 22:	ME	Maine	461
## 23:	MI	Michigan	885
## 24:	MN	Minnesota	810
## 25:	MO	Missouri	942
## 26:	MS	Mississippi	440
## 27:	MT	Montana	360
## 28:	NC	North Carolina	762
## 29:	ND	North Dakota	373
## 30:	NE	Nebraska	528
## 31:	NH	New Hampshire	255
## 32:	NJ	New Jersey	579
## 33:	NM	New Mexico	346
## 34:	NV	Nevada	99


```
## 35:      NY           New York      1612
## 36:      OH           Ohio         1069
## 37:      OK           Oklahoma      585
## 38:      OR           Oregon        379
## 39:      PA           Pennsylvania 1802
## 40:      RI           Rhode Island   70
## 41:      SC           South Carolina 377
## 42:      SD           South Dakota   364
## 43:      TN           Tennessee     548
## 44:      TX           Texas         1466
## 45:      UT           Utah          250
## 46:      VA           Virginia      839
## 47:      VT           Vermont       288
## 48:      WA           Washington    493
## 49:      WI           Wisconsin     753
## 50:      WV           West Virginia  753
## 51:      WY           Wyoming       176
##      states          fullname NumCities
```

Part c

```
#count a alphabet in a string
C<-function(string,letter) str_count(string, letter)
C("asdasd","a")
```

```
## [1] 2
```

```
#count 26 alphabets in a string
D<-function(string)
{d<-{}}
letters1<-as.matrix(letters)
  for (i in 1:26)
    {d<-rbind(d,str_count(string, letters1[i,1]))}
  return(d)}
D("asdasd")
```

```
##      [,1]
## [1,]    2
## [2,]    0
## [3,]    0
## [4,]    2
## [5,]    0
## [6,]    0
## [7,]    0
## [8,]    0
## [9,]    0
## [10,]   0
## [11,]   0
## [12,]   0
## [13,]   0
## [14,]   0
```

```
## [15,] 0
## [16,] 0
## [17,] 0
## [18,] 0
## [19,] 2
## [20,] 0
## [21,] 0
## [22,] 0
## [23,] 0
## [24,] 0
## [25,] 0
## [26,] 0
```

```
#Our task
letter_count <- data.frame(matrix(NA,nrow=51, ncol=27))
letter_count[,1]<-states$fullname
for(i in 1:51){
  letter_count[i,2:27]<-D(states$fullname[i])
}
letter_count
```

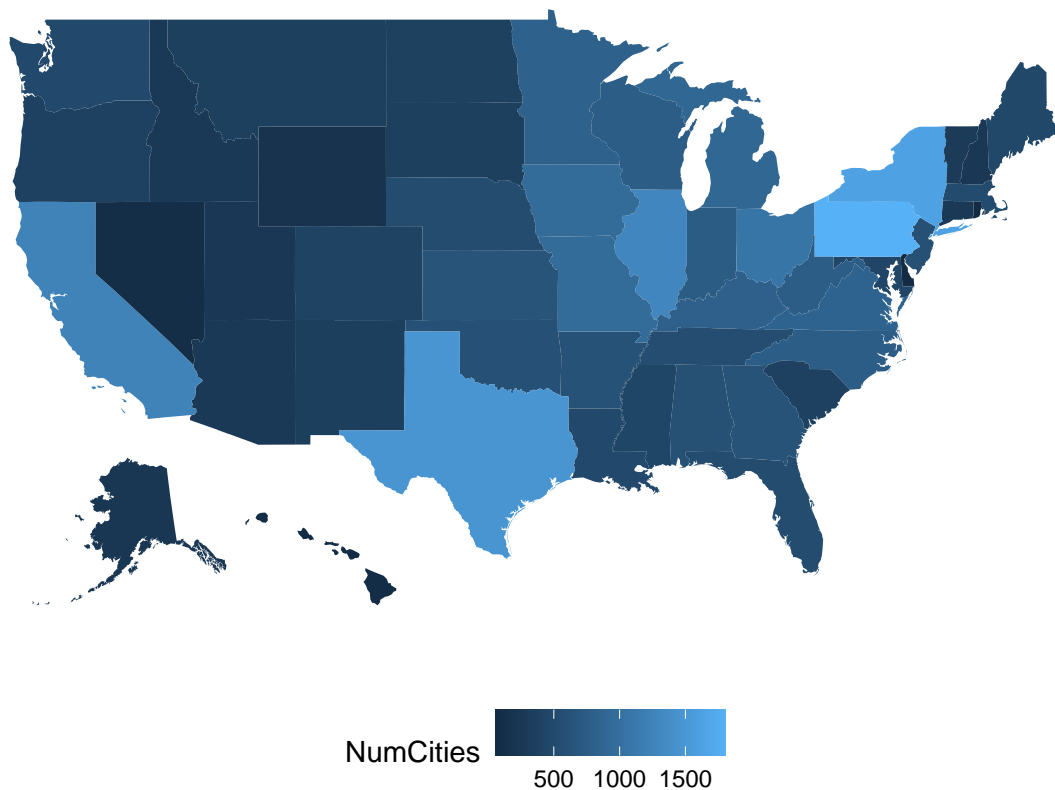
```
##           X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 X13 X14 X15 X16 X17
## 1      Alaska 2 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
## 2      Alabama 3 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0
## 3      Arkansas 2 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0
## 4      Arizona 1 0 0 0 0 0 0 0 0 1 0 0 0 0 1 1 0
## 5      California 2 0 0 0 0 1 0 0 2 0 0 1 0 1 1 1 0
## 6      Colorado 1 0 0 1 0 0 0 0 0 0 0 1 0 0 0 3 0
## 7      Connecticut 0 0 2 0 1 0 0 0 1 0 0 0 0 0 2 1 0
## 8 District of Columbia 1 1 1 0 0 1 0 0 3 0 0 1 1 0 2 0
## 9      Delaware 2 0 0 0 2 0 0 0 0 0 0 1 0 0 0 0 0
## 10     Florida 1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 1 0
## 11     Georgia 1 0 0 0 1 0 1 0 1 0 0 0 0 0 0 1 0
## 12     Hawaii 2 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0
## 13     Iowa 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
## 14     Idaho 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 1 0
## 15     Illinois 0 0 0 0 0 0 0 0 2 0 0 2 0 1 1 1 0
## 16     Indiana 2 0 0 1 0 0 0 0 1 0 0 0 0 0 2 0 0
## 17     Kansas 2 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
## 18     Kentucky 0 0 1 0 1 0 0 0 0 0 1 0 0 1 0 0 0
## 19     Louisiana 2 0 0 0 0 0 0 0 2 0 0 0 0 1 1 1 0
## 20     Massachusetts 2 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0
## 21     Maryland 2 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0
## 22     Maine 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0
## 23     Michigan 1 0 1 0 0 0 1 1 2 0 0 0 0 1 0 0 0
## 24     Minnesota 1 0 0 0 1 0 0 0 1 0 0 0 0 0 2 1 0
## 25     Missouri 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 1 0
## 26     Mississippi 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 2
## 27     Montana 2 0 0 0 0 0 0 0 0 0 0 0 0 0 2 1 0
## 28     North Carolina 2 0 0 0 0 0 0 1 1 0 0 1 0 1 2 0
## 29     North Dakota 2 0 0 0 0 0 0 1 0 0 1 0 0 0 2 0
## 30     Nebraska 2 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0
## 31     New Hampshire 1 0 0 0 2 0 0 1 1 0 0 0 1 0 0 1
## 32     New Jersey 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0
```

## 33	New Mexico	0	0	1	0	2	0	0	0	1	0	0	0	0	0	1	0
## 34	Nevada	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
## 35	New York	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0
## 36	Ohio	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0
## 37	Oklahoma	2	0	0	0	0	0	0	1	0	0	1	1	1	0	1	0
## 38	Oregon	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0
## 39	Pennsylvania	2	0	0	0	1	0	0	0	1	0	0	1	0	3	0	0
## 40	Rhode Island	1	0	0	2	1	0	0	1	0	0	0	1	0	1	1	0
## 41	South Carolina	2	0	0	0	0	0	0	1	1	0	0	1	0	1	2	0
## 42	South Dakota	2	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0
## 43	Tennessee	0	0	0	0	4	0	0	0	0	0	0	0	0	2	0	0
## 44	Texas	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 45	Utah	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
## 46	Virginia	1	0	0	0	0	0	1	0	3	0	0	0	0	1	0	0
## 47	Vermont	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0
## 48	Washington	1	0	0	0	0	0	1	1	1	0	0	0	0	2	1	0
## 49	Wisconsin	0	0	1	0	0	0	0	0	2	0	0	0	0	2	1	0
## 50	West Virginia	1	0	0	0	1	0	1	0	3	0	0	0	0	1	0	0
## 51	Wyoming	0	0	0	0	0	0	1	0	1	0	0	0	1	1	1	0
##	X18 X19 X20 X21 X22 X23 X24 X25 X26 X27																
## 1	0	0	1	0	0	0	0	0	0	0							
## 2	0	0	0	0	0	0	0	0	0	0							
## 3	0	1	2	0	0	0	0	0	0	0							
## 4	0	1	0	0	0	0	0	0	0	0	1						
## 5	0	1	0	0	0	0	0	0	0	0	0						
## 6	0	1	0	0	0	0	0	0	0	0	0						
## 7	0	0	0	2	1	0	0	0	0	0	0						
## 8	0	1	1	2	1	0	0	0	0	0	0						
## 9	0	1	0	0	0	0	1	0	0	0	0						
## 10	0	1	0	0	0	0	0	0	0	0	0						
## 11	0	1	0	0	0	0	0	0	0	0	0						
## 12	0	0	0	0	0	0	1	0	0	0	0						
## 13	0	0	0	0	0	0	1	0	0	0	0						
## 14	0	0	0	0	0	0	0	0	0	0	0						
## 15	0	0	1	0	0	0	0	0	0	0	0						
## 16	0	0	0	0	0	0	0	0	0	0	0						
## 17	0	0	2	0	0	0	0	0	0	0	0						
## 18	0	0	0	1	1	0	0	0	0	1	0						
## 19	0	0	1	0	1	0	0	0	0	0	0						
## 20	0	0	4	2	1	0	0	0	0	0	0						
## 21	0	1	0	0	0	0	0	0	0	1	0						
## 22	0	0	0	0	0	0	0	0	0	0	0						
## 23	0	0	0	0	0	0	0	0	0	0	0						
## 24	0	0	1	1	0	0	0	0	0	0	0						
## 25	0	1	2	0	1	0	0	0	0	0	0						
## 26	0	0	4	0	0	0	0	0	0	0	0						
## 27	0	0	0	1	0	0	0	0	0	0	0						
## 28	0	2	0	1	0	0	0	0	0	0	0						
## 29	0	1	0	2	0	0	0	0	0	0	0						
## 30	0	1	1	0	0	0	0	0	0	0	0						
## 31	0	1	1	0	0	0	1	0	0	0	0						
## 32	0	1	1	0	0	0	1	0	1	0	0						
## 33	0	0	0	0	0	0	1	1	0	0	0						
## 34	0	0	0	0	0	1	0	0	0	0	0						

```
## 35  0  1  0  0  0  0  1  0  0  0
## 36  0  0  0  0  0  0  0  0  0  0
## 37  0  0  0  0  0  0  0  0  0  0
## 38  0  1  0  0  0  0  0  0  0  0
## 39  0  0  1  0  0  1  0  0  1  0
## 40  0  0  1  0  0  0  0  0  0  0
## 41  0  1  0  1  1  0  0  0  0  0
## 42  0  0  0  2  1  0  0  0  0  0
## 43  0  0  2  0  0  0  0  0  0  0
## 44  0  0  1  0  0  0  0  1  0  0
## 45  0  0  0  1  0  0  0  0  0  0
## 46  0  1  0  0  0  0  0  0  0  0
## 47  0  1  0  1  0  0  0  0  0  0
## 48  0  0  1  1  0  0  0  0  0  0
## 49  0  0  2  0  0  0  0  0  0  0
## 50  0  1  1  1  0  0  0  0  0  0
## 51  0  0  0  0  0  0  0  0  1  0
```

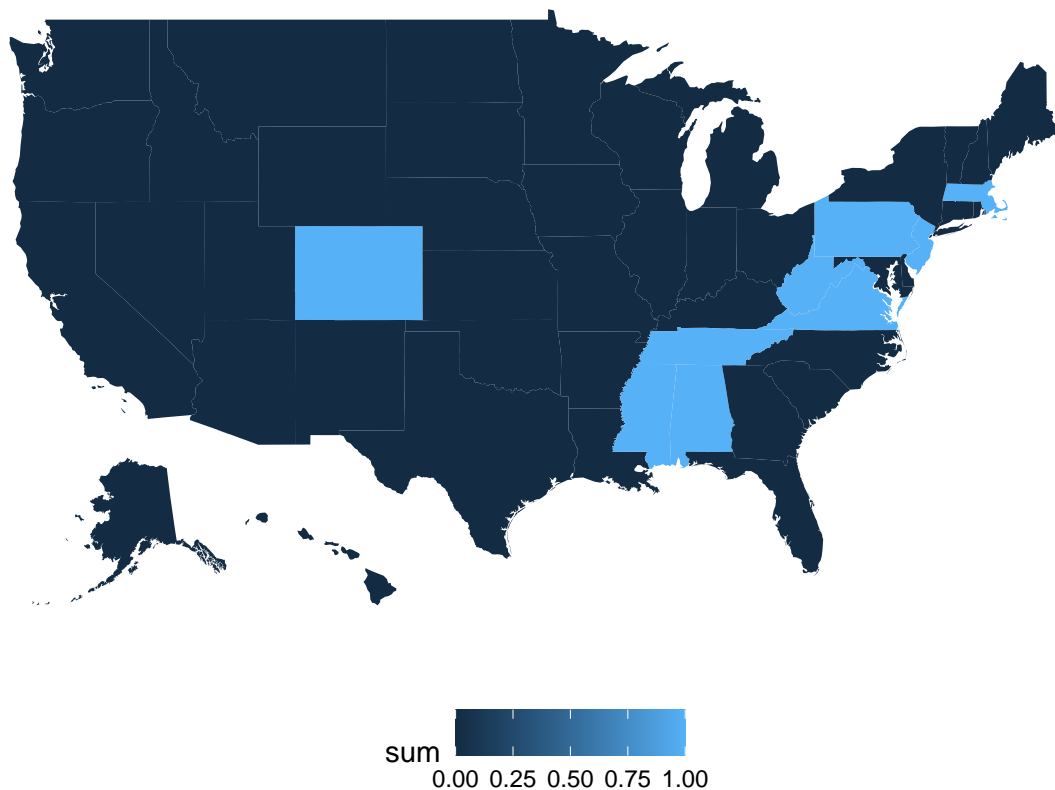
Part d

```
total$fullname<-tolower(total$fullname)
total <- total[-c(8), ]
p <- ggplot(total, aes(map_id = fullname)) +
  # map points to the fifty_states shape data
  geom_map(aes(fill = NumCities), map = fifty_states) +
  expand_limits(x = fifty_states$long, y = fifty_states$lat) +
  coord_map() +
  scale_x_continuous(breaks = NULL) +
  scale_y_continuous(breaks = NULL) +
  labs(x = "", y = "") +
  theme(legend.position = "bottom",
        panel.background = element_blank())
p
```



```
sum<-{}
for (i in 1:51)
{if (max(letter_count[i,2:27])>=3)
  {sum<-rbind(sum,1)}
  else
    {sum<-rbind(sum,0)}}
letter_count<-cbind(letter_count,sum)
letter_count <- letter_count[-c(8), ]
letter_count$X1<-tolower(letter_count$X1)
p <- ggplot(letter_count, aes(map_id = X1)) +
  # map points to the fifty_states shape data
  geom_map(aes(fill = sum), map = fifty_states) +
  expand_limits(x = fifty_states$long, y = fifty_states$lat) +
  coord_map() +
  scale_x_continuous(breaks = NULL) +
  scale_y_continuous(breaks = NULL) +
  labs(x = "", y = "") +
  theme(legend.position = "bottom",
        panel.background = element_blank())
```

p



P9

Part a

He wrote the wrong names of the variables in his for loop and I answered him.

```
#1)fetch data from Yahoo
#AAPL prices
apple08 <- getSymbols('AAPL', auto.assign = FALSE, from = '2008-1-1', to =
                  "2008-12-31"),[6]
```

```
## 'getSymbols' currently uses auto.assign=TRUE by default, but will
## use auto.assign=FALSE in 0.5-0. You will still be able to use
## 'loadSymbols' to automatically load data. getOption("getSymbols.env")
## and getOption("getSymbols.auto.assign") will still be checked for
## alternate defaults.
##
## This message is shown once per session and may be disabled by setting
## options("getSymbols.warning4.0"]=FALSE). See ?getSymbols for details.
```

```
#market proxy
rm08<-getSymbols('^ixic', auto.assign = FALSE, from = '2008-1-1', to =
                  "2008-12-31"),[6]
```

```

#log returns of AAPL and market
logapple08<- na.omit(ROC(apple08)*100)
logrm08<-na.omit(ROC(rm08)*100)
#OLS for beta estimation
beta_AAPL_08<-summary(lm(logapple08~logrm08))$coefficients[2,1]
#create df from AAPL returns and market returns
df08<-cbind(logapple08,logrm08)
#set.seed(666)
Boot=1000
sd.boot=rep(0,Boot)
for(i in 1:Boot){
  # nonparametric bootstrap
  bootdata=df08[sample(nrow(df08), size = 251, replace = TRUE),]
  sd.boot[i]= coef(summary(lm(AAPL.Adjusted~IXIC.Adjusted, data = bootdata)))[2,2]
  #print(summary(lm(logapple08~logrm08, data = bootdata)))
}
sd.boot

```

```

##      [1] 0.05504871 0.05827788 0.05487739 0.06281890 0.05575369 0.05763895
##      [7] 0.06985249 0.06045429 0.06209416 0.05757097 0.05756473 0.06263128
##     [13] 0.05411049 0.06154149 0.06118149 0.05704321 0.06450074 0.05789470
##     [19] 0.07212734 0.06932636 0.05970722 0.05667888 0.05710335 0.05910872
##     [25] 0.06342675 0.05718652 0.05800910 0.05220858 0.06519907 0.06085606
##     [31] 0.05968113 0.05721991 0.05294944 0.06839676 0.06069928 0.05798263
##     [37] 0.05933809 0.06192147 0.07145940 0.05820610 0.05982837 0.05411461
##     [43] 0.05454954 0.05452843 0.05110197 0.05911616 0.05591637 0.05570760
##     [49] 0.05220149 0.05320974 0.06273384 0.05329235 0.06162468 0.05994922
##     [55] 0.05780201 0.05891875 0.06032608 0.06294781 0.06087845 0.05371470
##     [61] 0.05409924 0.05348781 0.07151279 0.06410107 0.06613864 0.05369659
##     [67] 0.06488544 0.05689365 0.06481200 0.06333021 0.06295243 0.06883555
##     [73] 0.05089549 0.05952398 0.06192452 0.05696078 0.05846261 0.04794286
##     [79] 0.05372048 0.05591991 0.06051001 0.05990725 0.06126923 0.06117617
##     [85] 0.06919776 0.05218860 0.05420786 0.06835476 0.06764762 0.06425055
##     [91] 0.05710092 0.05973915 0.05116801 0.05836982 0.05695155 0.06883089
##     [97] 0.06183457 0.06717278 0.06534657 0.06346253 0.06713752 0.05989188
##    [103] 0.05304964 0.05947995 0.05836390 0.05855336 0.05180943 0.06455011
##    [109] 0.06674208 0.05812213 0.05751527 0.05581065 0.06072893 0.06172694
##    [115] 0.06751401 0.06036072 0.06295542 0.05983010 0.05984628 0.05614906
##    [121] 0.04962230 0.05348113 0.07038761 0.05967583 0.04708449 0.06447948
##    [127] 0.05789028 0.06949688 0.05078373 0.04853862 0.05877854 0.05804768
##    [133] 0.05350222 0.06313144 0.05473550 0.05171028 0.05951866 0.05149085
##    [139] 0.05001393 0.05912566 0.06186673 0.05009580 0.05677474 0.06563256
##    [145] 0.06150971 0.05315356 0.06436492 0.05733724 0.06648272 0.05939537
##    [151] 0.06360786 0.05752116 0.06390687 0.05954938 0.06132214 0.06318563
##    [157] 0.05107382 0.05150489 0.05760233 0.05592001 0.05286525 0.05405359
##    [163] 0.06173475 0.06010754 0.06374293 0.05910067 0.06817906 0.04521813
##    [169] 0.05520632 0.05581171 0.06600483 0.06193227 0.05795439 0.06103406
##    [175] 0.06102614 0.06926226 0.05730317 0.06147924 0.05190989 0.06454458
##    [181] 0.05955425 0.06107273 0.06269319 0.06135431 0.05333286 0.05700198
##    [187] 0.05080052 0.06204924 0.06917611 0.05970282 0.05867940 0.06745582
##    [193] 0.05883579 0.05812197 0.05481377 0.05806934 0.05948158 0.05738741
##    [199] 0.06161115 0.05632750 0.06252850 0.05810061 0.05844716 0.05989452
##    [205] 0.04886067 0.07070205 0.06703696 0.06304660 0.05478239 0.06136739
##    [211] 0.05345885 0.06661042 0.06845380 0.06268900 0.06581227 0.05056172

```

##	[217]	0.06514459	0.06489721	0.05207170	0.05286329	0.06128878	0.05559636
##	[223]	0.05726228	0.05884157	0.06339079	0.06121593	0.05186437	0.05722508
##	[229]	0.05821528	0.05734958	0.05796672	0.05509181	0.05926297	0.06017283
##	[235]	0.05386170	0.05942127	0.06541982	0.06101726	0.06155418	0.05916928
##	[241]	0.05252272	0.05488840	0.06461420	0.06504447	0.05807568	0.05729491
##	[247]	0.06085008	0.05626275	0.05487048	0.05554342	0.06287031	0.05298972
##	[253]	0.05543093	0.06236017	0.06373127	0.05529615	0.05596449	0.05967403
##	[259]	0.05693319	0.06161934	0.05448854	0.05450199	0.05741531	0.06214485
##	[265]	0.05181065	0.06610469	0.05719935	0.06575406	0.05736994	0.06102872
##	[271]	0.06002634	0.06028798	0.05912903	0.06169805	0.05600999	0.06912156
##	[277]	0.06166574	0.05973966	0.05804086	0.05904260	0.05482881	0.05738839
##	[283]	0.06423237	0.06964949	0.06110161	0.05244794	0.05637709	0.05972458
##	[289]	0.05008741	0.06152441	0.06256360	0.05837207	0.05335286	0.05823454
##	[295]	0.05705003	0.05993050	0.06562374	0.05558000	0.06188157	0.05796802
##	[301]	0.05766704	0.05489453	0.06043085	0.05770221	0.07209954	0.05951218
##	[307]	0.05742019	0.05323495	0.06908831	0.06196222	0.06633991	0.05884273
##	[313]	0.06186753	0.05581344	0.06621389	0.05211231	0.05552904	0.05672152
##	[319]	0.05618507	0.05899711	0.06104922	0.06509315	0.04979134	0.06622951
##	[325]	0.05747060	0.07667387	0.06041614	0.06244625	0.05948619	0.05733043
##	[331]	0.05975510	0.05471694	0.05561011	0.04864910	0.05397968	0.05662959
##	[337]	0.06252980	0.04978082	0.07168878	0.05679968	0.06025383	0.06444080
##	[343]	0.06507563	0.06289343	0.05838679	0.06367403	0.06568096	0.06348151
##	[349]	0.05513419	0.05996270	0.05373160	0.06932025	0.06152836	0.05324427
##	[355]	0.05867788	0.06670079	0.06581241	0.05911524	0.06493947	0.06357916
##	[361]	0.05396472	0.06068325	0.07168652	0.06729895	0.05481125	0.06043732
##	[367]	0.06126648	0.05490544	0.06191809	0.06421792	0.06563619	0.06198078
##	[373]	0.05498904	0.05458862	0.06237433	0.05869199	0.04953477	0.06161392
##	[379]	0.05038915	0.05522511	0.05987804	0.05867835	0.05650292	0.06653290
##	[385]	0.05971209	0.05887829	0.06820223	0.06081769	0.07052560	0.06168349
##	[391]	0.06180283	0.06021274	0.05769791	0.05633217	0.06193503	0.06457895
##	[397]	0.05881570	0.05630395	0.06152053	0.05354546	0.06433971	0.05087678
##	[403]	0.06838586	0.06748609	0.06505520	0.05498865	0.04927084	0.05452873
##	[409]	0.06232334	0.05317043	0.06163722	0.05645557	0.06013297	0.06058408
##	[415]	0.05670014	0.04831716	0.05729525	0.05818645	0.05106417	0.05646725
##	[421]	0.05273111	0.05899850	0.05778502	0.05916196	0.06885698	0.05998852
##	[427]	0.06128332	0.05866989	0.06821758	0.05170834	0.05833450	0.06058962
##	[433]	0.06339527	0.05454354	0.05355752	0.06970146	0.05129037	0.05666446
##	[439]	0.07459391	0.06812693	0.06447028	0.07162059	0.05849222	0.06211889
##	[445]	0.06000382	0.06066487	0.06188577	0.05207836	0.06142025	0.05927786
##	[451]	0.05574432	0.06814835	0.06584506	0.06514776	0.05622241	0.06592119
##	[457]	0.05848399	0.05688866	0.06728827	0.06744426	0.06135492	0.05943401
##	[463]	0.05778156	0.05249423	0.06666743	0.05652527	0.05523100	0.04939899
##	[469]	0.05943051	0.06308778	0.05488733	0.07078001	0.05174234	0.05280197
##	[475]	0.06183964	0.06405554	0.05186324	0.06418627	0.05788316	0.05943682
##	[481]	0.06486281	0.06193668	0.05963341	0.05691686	0.06038686	0.06311582
##	[487]	0.06083698	0.06490998	0.05258656	0.05190663	0.05930356	0.05892994
##	[493]	0.05633843	0.06019531	0.07162831	0.06694053	0.07129910	0.05309455
##	[499]	0.06020075	0.06121804	0.04718051	0.06134390	0.06806734	0.05366184
##	[505]	0.05477609	0.06254574	0.05507209	0.04825858	0.05834430	0.05676650
##	[511]	0.06056258	0.06050905	0.05457021	0.06197491	0.04694533	0.05992395
##	[517]	0.06496713	0.05701819	0.05907631	0.06217260	0.04725210	0.05416729
##	[523]	0.05766155	0.05430383	0.05545008	0.06064781	0.04917360	0.05811216
##	[529]	0.05661158	0.06178330	0.05480503	0.06075423	0.06756497	0.06101346
##	[535]	0.05667981	0.06332852	0.06013317	0.06283266	0.06308964	0.06506697

##	[541]	0.05923689	0.07759928	0.06095061	0.05636030	0.06183248	0.08616306
##	[547]	0.05743712	0.06014155	0.05875076	0.05004935	0.05645053	0.05700310
##	[553]	0.04997369	0.05791226	0.07108220	0.05909120	0.05644301	0.05170806
##	[559]	0.05536356	0.06125438	0.05880219	0.05071723	0.06231214	0.06258876
##	[565]	0.06253407	0.05562112	0.05000688	0.05214136	0.05564205	0.06142816
##	[571]	0.07273235	0.06399480	0.05062708	0.06319282	0.05624554	0.06813649
##	[577]	0.06685682	0.05979331	0.06116858	0.04771273	0.06888946	0.06051847
##	[583]	0.05091252	0.06604371	0.06089653	0.06056269	0.05198527	0.05953084
##	[589]	0.06253592	0.05680968	0.05496886	0.06409015	0.05313592	0.05329924
##	[595]	0.05710001	0.05351436	0.06275994	0.05798734	0.06321575	0.05969398
##	[601]	0.05215879	0.06420880	0.06107126	0.05957783	0.06560720	0.06832001
##	[607]	0.06192228	0.05479313	0.06069734	0.06248265	0.06508924	0.06287510
##	[613]	0.07524480	0.06340999	0.05690416	0.05201693	0.05223524	0.05464422
##	[619]	0.06325333	0.07616604	0.05713116	0.05458045	0.05353690	0.05564944
##	[625]	0.05313023	0.06318688	0.05106811	0.05505980	0.05967272	0.06015159
##	[631]	0.05877279	0.06016468	0.06473912	0.05517846	0.05771807	0.06050185
##	[637]	0.06421473	0.05635426	0.05268456	0.05964335	0.05737819	0.05914468
##	[643]	0.05622159	0.05459086	0.06093841	0.06413346	0.05481329	0.06488399
##	[649]	0.06353492	0.05578579	0.07022565	0.06003820	0.05184298	0.05381910
##	[655]	0.06519922	0.05586045	0.06602425	0.06378703	0.05704370	0.05337074
##	[661]	0.05598029	0.06116871	0.04849213	0.05998708	0.06070343	0.06512672
##	[667]	0.05648127	0.06282842	0.06369533	0.05604898	0.05750005	0.05202386
##	[673]	0.06623670	0.05707303	0.06826897	0.05251728	0.06126705	0.05879309
##	[679]	0.06274685	0.06503435	0.06780204	0.05808727	0.06036004	0.06991242
##	[685]	0.07313427	0.05379576	0.05534070	0.05792241	0.05125210	0.06381878
##	[691]	0.05193424	0.06668429	0.06189301	0.05945972	0.05256888	0.05962534
##	[697]	0.06207978	0.07324441	0.06812261	0.06624798	0.05865102	0.05798464
##	[703]	0.05697174	0.05705760	0.07264978	0.05291013	0.06914279	0.06677690
##	[709]	0.06290052	0.06643584	0.06896178	0.06568754	0.05250402	0.05781339
##	[715]	0.06057165	0.05965369	0.06381283	0.05611433	0.05358372	0.05896330
##	[721]	0.05840137	0.05571835	0.05680049	0.05764366	0.06413791	0.05662425
##	[727]	0.05762987	0.06460073	0.06560337	0.05547427	0.04729304	0.06007221
##	[733]	0.05935028	0.06041507	0.05922551	0.05268316	0.06011802	0.05757552
##	[739]	0.05430230	0.05579344	0.05693191	0.06014022	0.06765252	0.06270287
##	[745]	0.06809478	0.06902931	0.05900648	0.06951285	0.06865503	0.06469328
##	[751]	0.05567922	0.05450834	0.06637051	0.05435989	0.05841864	0.06628823
##	[757]	0.05717166	0.06125998	0.05935318	0.05889343	0.05535429	0.05463544
##	[763]	0.05446746	0.05628909	0.06633582	0.04880186	0.05370756	0.05910101
##	[769]	0.05851768	0.05700811	0.05204533	0.06276584	0.05725917	0.06601630
##	[775]	0.05506950	0.06926343	0.06861621	0.06180949	0.06227987	0.05453134
##	[781]	0.06849709	0.06663805	0.05190338	0.04910771	0.05246055	0.05784672
##	[787]	0.04859814	0.05781336	0.06467520	0.06090957	0.05946959	0.04994702
##	[793]	0.05423577	0.06655533	0.05854241	0.05638446	0.05962539	0.06664310
##	[799]	0.06508832	0.05912621	0.05117590	0.05730587	0.06148390	0.06500738
##	[805]	0.06118844	0.06293186	0.05689292	0.05674492	0.06877994	0.05827228
##	[811]	0.05278141	0.07266125	0.06200242	0.05652177	0.07514060	0.06420079
##	[817]	0.06137590	0.05299036	0.06088892	0.05272403	0.05523871	0.05295911
##	[823]	0.05516248	0.07042716	0.05700662	0.05433233	0.05889665	0.05880843
##	[829]	0.05721858	0.06151093	0.06576517	0.05466234	0.06070637	0.05333105
##	[835]	0.04959779	0.05406520	0.05427411	0.05108202	0.05524521	0.06655347
##	[841]	0.04935418	0.05856162	0.05417918	0.05706796	0.06411411	0.04839853
##	[847]	0.07311765	0.06162940	0.07761369	0.06199470	0.06222490	0.06356523
##	[853]	0.05667092	0.06026806	0.06129568	0.06149331	0.05794761	0.05723122
##	[859]	0.06526345	0.06273382	0.05448486	0.06031548	0.06295545	0.06343092

```
## [865] 0.05928571 0.05835678 0.06686634 0.05901819 0.05645238 0.05626361
## [871] 0.05613876 0.05386434 0.06529974 0.05279816 0.06252766 0.05771085
## [877] 0.05470629 0.05776535 0.06696338 0.05588650 0.06650754 0.05984585
## [883] 0.06801954 0.07088951 0.07026733 0.06074448 0.05521929 0.05553818
## [889] 0.04471965 0.05721523 0.05995643 0.05363862 0.06936031 0.05550646
## [895] 0.06234309 0.06468311 0.06644510 0.06171819 0.06738009 0.06840509
## [901] 0.06437960 0.05665416 0.06213934 0.05573559 0.06257589 0.05436533
## [907] 0.05961410 0.05814351 0.06783336 0.05425373 0.06253554 0.05965455
## [913] 0.06468477 0.06066295 0.05044656 0.05830629 0.06262360 0.05106821
## [919] 0.06380495 0.06360942 0.05894494 0.06477363 0.05324341 0.05264539
## [925] 0.05011853 0.04982719 0.06570530 0.06613219 0.06670189 0.06087076
## [931] 0.06393854 0.06126997 0.06091098 0.05272923 0.05535617 0.05452944
## [937] 0.06257541 0.06287677 0.05822686 0.05562426 0.05926609 0.05646026
## [943] 0.05282594 0.06073592 0.05766167 0.06321587 0.07020566 0.06208408
## [949] 0.06242501 0.05463330 0.05926214 0.06291559 0.06796055 0.05490231
## [955] 0.05680286 0.05998627 0.05654419 0.05506440 0.06662447 0.05874856
## [961] 0.06268391 0.06340063 0.05946844 0.05550101 0.06096540 0.05372766
## [967] 0.06233126 0.06014698 0.06065105 0.06470159 0.06486701 0.05584821
## [973] 0.06446330 0.06508827 0.07014087 0.06808761 0.05648363 0.06194307
## [979] 0.06680827 0.06987920 0.05689815 0.06333918 0.05659411 0.05241574
## [985] 0.04965800 0.06347540 0.05473482 0.06340999 0.06304073 0.06189601
## [991] 0.05339774 0.06009684 0.06802859 0.05507595 0.05441312 0.06854814
## [997] 0.05389487 0.06818273 0.06847063 0.06546624
```

Part b

```
sensory <- read.delim("http://www2.isye.gatech.edu/~jeffwu/wuhamadabook/data/Sensory.dat")
sensory
```

```
##                               X Operator
## 1                Item 1 2 3 4 5      NA
## 2      1 4.3 4.9 3.3 5.3 4.4      NA
## 3      4.3 4.5 4.0 5.5 3.3      NA
## 4      4.1 5.3 3.4 5.7 4.7      NA
## 5      2 6.0 5.3 4.5 5.9 4.7      NA
## 6      4.9 6.3 4.2 5.5 4.9      NA
## 7      6.0 5.9 4.7 6.3 4.6      NA
## 8      3 2.4 2.5 2.3 3.1 2.4      NA
## 9      3.9 3.0 2.8 2.7 1.3      NA
## 10     1.9 3.9 2.6 4.6 2.2      NA
## 11     4 7.4 8.2 6.4 6.8 6.0      NA
## 12     7.1 7.9 5.9 7.3 6.1      NA
## 13     6.4 7.1 6.9 7.0 6.7      NA
## 14     5 5.7 6.3 5.4 6.1 5.9      NA
## 15     5.8 5.7 5.4 6.2 6.5      NA
## 16     5.8 6.0 6.1 7.0 4.9      NA
## 17     6 2.2 2.4 1.7 3.4 1.7      NA
## 18     3.0 1.8 2.1 4.0 1.7      NA
## 19     2.1 3.3 1.1 3.3 2.1      NA
## 20     7 1.2 1.5 1.2 0.9 0.7      NA
## 21     1.3 2.4 0.8 1.2 1.3      NA
## 22     0.9 3.1 1.1 1.9 1.6      NA
```

```
## 23  8 4.2 4.8 4.5 4.6 3.2      NA
## 24    3.0 4.5 4.7 4.9 4.6      NA
## 25    4.8 4.8 4.7 4.8 4.3      NA
## 26  9 8.0 8.6 9.0 9.4 8.8      NA
## 27    9.0 7.7 6.7 9.0 7.9      NA
## 28    8.9 9.2 8.1 9.1 7.6      NA
## 29 10 5.0 4.8 3.9 5.5 3.8      NA
## 30    5.4 5.0 3.4 4.9 4.6      NA
## 31    2.8 5.2 4.1 3.9 5.5      NA
```

#Tidyverse

```
sensory<-sensory %>% separate(col = X, into = c("1","2","3","4","5","6"), sep = " ") %>% select(-Operator)
```

```
## Warning: Expected 6 pieces. Missing pieces filled with 'NA' in 20 rows [3, 4, 6,
## 7, 9, 10, 12, 13, 15, 16, 18, 19, 21, 22, 24, 25, 27, 28, 30, 31].
```

```
sensory2<-sensory[-1,]
for (i in 1:30)
{if ((i % 3)!=1)
{for (j in 2:6)
  sensory2[i,8-j]<- sensory2[i,8-j-1]
sensory2[i,1]<-sensory2[i-1,1]
}}
colnames(sensory2) <- c("item","Operator1", "Operator2","Operator3","Operator4","Operator5")
row.names(sensory2)<-c(1:30)
sensory8<-as.data.frame(sensory2)
t<-(sensory8)
sensory8=matrix(unlist(t(t)), byrow=T,30,6)
sensory8
```

```
##      [,1] [,2] [,3] [,4] [,5] [,6]
## [1,] "1"  "4.3" "4.9" "3.3" "5.3" "4.4"
## [2,] "1"  "4.3" "4.5" "4.0" "5.5" "3.3"
## [3,] "1"  "4.1" "5.3" "3.4" "5.7" "4.7"
## [4,] "2"  "6.0" "5.3" "4.5" "5.9" "4.7"
## [5,] "2"  "4.9" "6.3" "4.2" "5.5" "4.9"
## [6,] "2"  "6.0" "5.9" "4.7" "6.3" "4.6"
## [7,] "3"  "2.4" "2.5" "2.3" "3.1" "2.4"
## [8,] "3"  "3.9" "3.0" "2.8" "2.7" "1.3"
## [9,] "3"  "1.9" "3.9" "2.6" "4.6" "2.2"
## [10,] "4"  "7.4" "8.2" "6.4" "6.8" "6.0"
## [11,] "4"  "7.1" "7.9" "5.9" "7.3" "6.1"
## [12,] "4"  "6.4" "7.1" "6.9" "7.0" "6.7"
## [13,] "5"  "5.7" "6.3" "5.4" "6.1" "5.9"
## [14,] "5"  "5.8" "5.7" "5.4" "6.2" "6.5"
## [15,] "5"  "5.8" "6.0" "6.1" "7.0" "4.9"
## [16,] "6"  "2.2" "2.4" "1.7" "3.4" "1.7"
## [17,] "6"  "3.0" "1.8" "2.1" "4.0" "1.7"
## [18,] "6"  "2.1" "3.3" "1.1" "3.3" "2.1"
## [19,] "7"  "1.2" "1.5" "1.2" "0.9" "0.7"
## [20,] "7"  "1.3" "2.4" "0.8" "1.2" "1.3"
## [21,] "7"  "0.9" "3.1" "1.1" "1.9" "1.6"
## [22,] "8"  "4.2" "4.8" "4.5" "4.6" "3.2"
```

```
## [23,] "8" "3.0" "4.5" "4.7" "4.9" "4.6"
## [24,] "8" "4.8" "4.8" "4.7" "4.8" "4.3"
## [25,] "9" "8.0" "8.6" "9.0" "9.4" "8.8"
## [26,] "9" "9.0" "7.7" "6.7" "9.0" "7.9"
## [27,] "9" "8.9" "9.2" "8.1" "9.1" "7.6"
## [28,] "10" "5.0" "4.8" "3.9" "5.5" "3.8"
## [29,] "10" "5.4" "5.0" "3.4" "4.9" "4.6"
## [30,] "10" "2.8" "5.2" "4.1" "3.9" "5.5"
```

```
colnames(sensory8) <- c("item", "Operator1", "Operator2", "Operator3", "Operator4", "Operator5")
class(sensory8) <- "numeric"
df <- as_tibble(sensory8)
df
```

```
## # A tibble: 30 x 6
##   item Operator1 Operator2 Operator3 Operator4 Operator5
##   <dbl>      <dbl>      <dbl>      <dbl>      <dbl>      <dbl>
## 1     1         1         4.3         4.9         3.3         5.3         4.4
## 2     1         1         4.3         4.5         4         5.5         3.3
## 3     1         1         4.1         5.3         3.4         5.7         4.7
## 4     2         2         6         5.3         4.5         5.9         4.7
## 5     2         2         4.9         6.3         4.2         5.5         4.9
## 6     2         2         6         5.9         4.7         6.3         4.6
## 7     3         3         2.4         2.5         2.3         3.1         2.4
## 8     3         3         3.9         3         2.8         2.7         1.3
## 9     3         3         1.9         3.9         2.6         4.6         2.2
## 10    4         4         7.4         8.2         6.4         6.8         6
## # ... with 20 more rows
```

```
y<-rbind(t(t(df$Operator1)),t(t(df$Operator1)),t(t(df$Operator1)),t(t(df$Operator1)),t(t(df$Operator1)))
operator<-rbind(t(t(rep(1,30))),t(t(rep(2,30))),t(t(rep(3,30))),t(t(rep(4,30))),t(t(rep(5,30))))
data<-cbind(operator,y)
data1<-as.data.frame(data)
colnames(data1)<-cbind('operator','y')

Boot=1000
beta0.boot=rep(0,Boot)
beta1.boot=rep(0,Boot)
start_time <- Sys.time()
for(i in 1:Boot){
  # nonparametric bootstrap
  bootdata<-data1%>% group_by(operator) %>% sample_n(20)#make sure the damples are balanced
  beta0.boot[i]= coef(summary(lm(operator~y, data = bootdata)))[1,1]
  beta1.boot[i]= coef(summary(lm(operator~y, data = bootdata)))[2,1]
  #print(summary(lm(operator~y, data = bootdata)))
}
end_time <- Sys.time()
end_time - start_time
```

```
## Time difference of 7.368384 secs
```

```
print("beta0.boot")
```

```
## [1] "beta0.boot"
```

```
print(beta0.boot)
```

```
##      [1] 3.075307 3.282050 2.810709 2.879889 2.940540 2.930999 3.023485 3.046469
##      [9] 3.034173 3.086954 3.054739 2.999080 3.096784 3.044256 3.079593 2.921572
##     [17] 3.008238 2.950507 2.948752 2.910963 3.243506 3.369174 3.024561 3.337997
##     [25] 2.865948 2.831444 2.870404 2.731828 3.071537 3.062330 3.176887 3.065756
##     [33] 2.876124 3.016063 2.686360 2.979959 3.081347 2.895207 3.143723 3.012334
##     [41] 2.987544 2.812993 2.875804 3.131979 3.051733 2.999152 2.849848 2.971879
##     [49] 2.925443 2.893752 3.055631 2.954118 2.681210 3.149479 3.155796 3.366249
##     [57] 3.040081 3.095409 3.097398 2.846261 3.093182 3.000000 2.798376 2.923918
##     [65] 2.833489 3.244787 3.060346 3.133525 2.827091 3.011510 3.073316 2.987734
##     [73] 2.847947 3.000896 2.707890 3.178376 3.026672 2.958254 3.032396 3.152147
##     [81] 2.938676 3.000000 3.151793 2.866283 2.899422 2.897807 3.276077 3.099739
##     [89] 3.067291 3.001833 3.271398 2.808636 2.795563 3.009233 2.857815 3.359055
##     [97] 2.840002 2.866907 3.189745 3.323200 3.095950 2.855867 2.663719 3.158413
##    [105] 3.141892 3.090734 3.121328 2.888551 3.269034 3.172833 2.913214 2.722737
##    [113] 2.807802 3.216492 3.151334 3.309403 2.642510 3.126648 2.812021 2.939875
##    [121] 3.126949 3.036713 3.207179 3.010688 3.172225 3.319111 3.143427 2.912073
##    [129] 2.871585 2.874518 3.192390 2.979943 3.015495 2.906756 2.970753 2.892757
##    [137] 2.897388 2.820541 3.120514 2.996445 2.920435 3.187582 3.307147 3.051309
##    [145] 3.243976 2.944802 2.784387 3.027182 2.989842 2.894958 2.941508 3.239032
##    [153] 2.928776 3.240220 3.029374 3.015754 2.892343 2.979781 2.743017 2.972917
##    [161] 2.880628 2.846060 2.928320 3.057567 3.081061 3.121590 2.814382 3.008296
##    [169] 3.058436 2.907619 3.237193 3.051307 3.208688 3.106644 3.010513 2.845951
##    [177] 2.850854 2.963716 2.978575 3.197790 3.086023 2.920844 3.081648 3.170522
##    [185] 3.132082 3.231965 3.238954 3.060534 2.953174 2.953095 3.098366 2.798588
##    [193] 2.721415 2.934840 2.999073 3.207819 3.279924 2.867740 3.192454 2.971928
##    [201] 3.240541 3.453038 2.958233 3.089007 2.869815 3.031953 3.305953 3.040099
##    [209] 3.125901 2.909220 2.748881 2.975714 3.154758 3.016682 3.187521 2.868375
##    [217] 3.227353 3.098087 3.224693 3.032478 3.165258 2.763614 3.456975 2.899299
##    [225] 3.367854 2.915464 2.914036 2.770788 2.723310 2.750431 3.044204 3.068552
##    [233] 3.013624 2.810463 2.973907 3.166364 2.893342 2.952455 3.071025 3.052505
##    [241] 2.627100 2.965558 3.128862 3.064324 3.087223 2.660377 2.902820 2.906812
##    [249] 3.291697 3.285546 2.880511 2.853728 2.617904 3.232688 2.839615 3.027056
##    [257] 3.061638 3.048860 2.904446 3.317491 2.838050 2.921330 3.333420 3.019584
##    [265] 3.350053 3.362821 2.902347 2.894247 3.118050 2.832833 3.298694 3.109606
##    [273] 3.038487 3.147598 3.215140 2.957460 3.081809 2.691249 3.050441 2.809800
##    [281] 3.179882 2.907974 3.241290 3.018578 3.004905 2.900927 3.238570 2.826066
##    [289] 2.954304 2.895729 3.048618 3.083506 3.170027 3.051561 3.373419 3.016766
##    [297] 2.886745 3.244269 3.159975 3.121070 2.967888 3.213595 3.056256 3.086377
##    [305] 3.086216 3.111191 3.079817 2.818455 3.021008 3.023243 2.909339 3.118952
##    [313] 2.855827 3.126320 2.984555 2.898203 3.302177 2.831258 3.124969 2.733736
##    [321] 2.998182 3.206900 2.987543 3.208739 3.092799 3.134824 2.972900 2.773536
##    [329] 3.010396 2.636016 3.047545 2.929894 2.941976 2.625165 2.971700 2.744974
##    [337] 3.056885 2.861911 2.885576 3.209445 2.723367 3.235935 2.910342 2.916208
##    [345] 2.749895 3.225158 3.025401 2.706767 3.216543 2.953647 3.460486 3.010686
##    [353] 3.122795 2.785110 3.062877 3.026490 3.103816 3.145868 2.992786 3.089847
##    [361] 3.160642 3.000956 3.009450 2.846117 2.971352 2.863174 3.129069 3.192631
```

[369] 2.971816 2.894588 3.122866 3.382342 3.354778 2.788933 3.205640 2.878432
 ## [377] 2.841072 3.161342 2.789861 3.115395 2.755854 3.352509 3.112232 3.216932
 ## [385] 2.884536 2.811680 2.953910 3.030512 2.946369 2.843052 2.989260 2.895833
 ## [393] 3.005592 2.979115 2.938558 3.340822 3.085210 3.079156 2.720196 2.933634
 ## [401] 3.134128 2.967817 3.002954 3.225207 2.875055 3.070684 2.880766 2.704265
 ## [409] 3.161859 2.933166 3.011366 2.951180 2.743203 2.932080 3.146744 2.799530
 ## [417] 3.046740 2.893048 3.035448 2.974541 3.403994 2.763070 3.243574 3.041622
 ## [425] 2.783061 2.674429 3.071040 3.406897 2.738621 2.982213 3.053783 2.834659
 ## [433] 3.103695 3.313132 2.963308 2.869350 3.196523 2.780230 2.770661 2.973345
 ## [441] 3.310464 2.770582 3.057866 2.889267 3.076441 2.990646 2.935430 2.993793
 ## [449] 3.365214 2.909178 2.832791 3.154495 3.156944 2.658467 2.925297 3.253536
 ## [457] 2.923329 2.716080 3.250324 3.171489 2.818242 3.102367 3.150381 2.994552
 ## [465] 2.918197 2.575142 2.885112 3.094595 3.047582 2.941690 3.028192 3.258252
 ## [473] 2.993124 2.919750 3.240188 2.980571 3.067453 3.208446 3.314103 3.073982
 ## [481] 2.869256 2.823765 2.936279 3.071121 3.032397 3.193999 3.211305 3.015806
 ## [489] 3.257890 3.239143 2.741004 2.947876 3.035400 2.984517 3.107831 3.414212
 ## [497] 2.784320 2.706471 3.128371 3.299300 3.134066 2.959352 2.980173 2.788963
 ## [505] 2.907262 2.837125 3.184392 3.022423 3.111182 2.799479 3.021092 2.804697
 ## [513] 2.916720 3.166884 3.194289 2.957994 3.012713 3.084184 2.862238 2.885287
 ## [521] 3.067961 2.908059 2.966055 3.183412 3.076798 3.032974 2.797257 2.998995
 ## [529] 2.948231 3.022445 3.106127 2.777966 2.842477 2.859678 2.779609 2.766590
 ## [537] 2.883949 3.130985 2.854395 2.892609 2.989717 3.121162 2.976129 2.951912
 ## [545] 2.839813 3.060323 2.878180 2.674406 2.839095 3.067643 3.117733 3.233129
 ## [553] 3.107901 3.002833 3.045171 2.889065 3.045277 3.015941 2.880619 2.944023
 ## [561] 3.126508 3.116915 3.255878 2.842034 2.888888 3.211610 3.076410 3.003633
 ## [569] 2.982752 2.901096 3.128273 3.138415 3.087598 2.918853 3.313886 3.544693
 ## [577] 3.086158 2.657378 3.042309 2.663491 3.032507 3.147632 3.068604 2.856297
 ## [585] 3.130723 3.012250 3.112869 2.771246 3.059409 2.969777 2.750761 2.967414
 ## [593] 2.930699 2.978680 2.673619 2.786334 3.167497 3.210365 3.338505 3.212806
 ## [601] 2.913403 3.223035 2.997440 3.080397 3.206724 3.099231 3.019427 3.011008
 ## [609] 3.099928 3.129006 2.965263 2.861223 3.094638 3.126669 3.109291 2.825885
 ## [617] 3.155116 3.129736 2.884284 2.838893 2.871355 3.105521 3.038842 2.743970
 ## [625] 3.078096 2.789804 3.015292 2.847243 3.222796 3.132325 2.893723 2.906900
 ## [633] 3.174980 2.952604 3.200070 3.038100 3.088334 3.119796 2.923443 3.009536
 ## [641] 2.967015 2.951886 3.242284 2.926285 3.018026 3.258522 3.132057 2.714140
 ## [649] 3.122650 2.633750 2.877897 3.166270 2.831757 2.941462 3.245360 3.119715
 ## [657] 2.878766 3.258960 3.040124 3.192663 2.904368 3.016605 3.148647 3.143553
 ## [665] 2.906318 2.837622 3.181603 2.947314 3.064953 2.936146 3.098552 3.029166
 ## [673] 2.946560 2.921292 2.870884 3.046963 3.017728 3.202017 2.878172 3.003021
 ## [681] 2.563004 3.107223 2.897607 2.892763 3.203107 2.716408 2.805836 3.078908
 ## [689] 3.083522 2.948193 2.953295 2.930704 3.024687 3.092238 3.298189 3.043993
 ## [697] 3.042535 2.936297 2.865618 2.958342 3.005534 2.965611 2.889465 2.899417
 ## [705] 2.945918 2.902067 2.856494 2.848490 2.977891 2.696765 3.032963 3.176959
 ## [713] 3.352330 3.220160 2.766236 3.390933 3.215317 2.886980 2.974190 3.064392
 ## [721] 2.996938 3.337584 2.866795 2.898458 3.134833 3.104235 2.734355 2.796719
 ## [729] 2.875523 3.151123 2.844076 3.075942 2.951441 2.781556 2.971635 3.134479
 ## [737] 2.698760 3.139226 3.047273 3.038700 2.568963 3.057250 2.858053 2.821253
 ## [745] 3.194252 3.098035 2.930044 3.002062 2.908259 2.709964 3.340163 3.000000
 ## [753] 3.035757 3.095050 3.063583 3.276104 3.216909 3.225741 3.046947 2.798176
 ## [761] 2.872777 3.344365 3.217522 2.845380 2.983580 2.565878 2.821138 3.402728
 ## [769] 2.753114 2.595049 2.918036 2.855593 3.072032 2.954254 2.832488 3.399600
 ## [777] 2.505752 2.831341 2.984412 3.074746 2.913206 2.903819 3.262220 3.027424
 ## [785] 3.221514 3.062440 2.759862 3.033626 2.940405 2.448861 3.000882 2.848821
 ## [793] 3.237348 2.813820 3.156262 2.745540 2.996103 2.636644 2.950944 2.547789

```
## [801] 3.233559 2.729517 3.279383 3.225690 2.929361 2.961496 2.930667 3.029151
## [809] 3.138094 3.107019 2.848971 3.080254 3.197450 3.168598 2.880244 2.887284
## [817] 3.352069 3.219894 3.161723 3.510011 3.289617 2.890737 3.094609 3.185444
## [825] 2.965987 2.883237 3.001882 3.204256 2.508602 3.360670 3.295353 2.969120
## [833] 3.078504 2.889845 2.978798 2.793582 3.163949 2.839683 2.885097 2.818874
## [841] 2.654882 3.194314 3.035707 3.161591 2.979288 2.408561 3.173019 2.723086
## [849] 3.280345 2.922728 3.007756 2.987694 2.893767 3.048827 2.930798 2.844382
## [857] 3.201522 3.215556 2.764661 2.749467 3.190901 3.112732 2.872093 2.883959
## [865] 3.154579 2.876804 3.223687 3.242087 2.879611 3.033656 3.075758 2.925767
## [873] 3.066361 2.892286 2.814048 3.075316 3.191682 2.957304 2.816179 3.069711
## [881] 3.042843 3.159342 3.095870 3.013697 3.129178 2.894563 2.862732 2.935268
## [889] 3.091640 3.047900 3.076260 3.213464 2.680433 2.716278 3.068211 3.001907
## [897] 3.087026 3.006592 3.121657 3.462432 3.135233 2.831308 2.661571 2.668978
## [905] 3.065901 2.857162 2.823755 3.062658 3.090768 2.679640 3.019859 3.031286
## [913] 3.072307 3.281514 3.006577 3.232585 3.017069 2.984791 3.233744 2.699298
## [921] 3.172925 2.517515 3.161669 3.174889 3.007943 3.053275 3.208631 2.991147
## [929] 2.960864 2.846747 3.067010 3.156417 3.194017 2.684270 3.114975 2.751743
## [937] 2.835179 3.063482 2.943621 3.019858 3.000895 3.081889 2.766607 3.166223
## [945] 3.154802 2.701257 3.041335 2.964313 3.127525 2.869234 3.254138 2.956070
## [953] 2.843332 3.260590 3.136319 3.144432 2.926068 2.980929 3.032530 3.070288
## [961] 3.085479 2.961297 3.071116 2.982115 2.758363 3.085878 3.065363 2.898626
## [969] 3.224751 2.914115 3.206052 2.919945 2.988618 3.019019 3.022013 2.816548
## [977] 3.144834 2.794061 2.808532 2.968175 2.702166 3.209365 3.074640 3.028165
## [985] 2.871976 3.077526 2.971245 3.322004 2.848556 3.122053 3.331990 3.016327
## [993] 2.922363 3.109639 2.829011 3.442289 2.994327 3.109802 2.942484 3.238503
```

```
print("beta1.boot")
```

```
## [1] "beta1.boot"
```

```
print(beta1.boot)
```

```
## [1] -1.588075e-02 -6.144871e-02 4.054211e-02 2.593070e-02 1.264033e-02
## [6] 1.492245e-02 -5.065749e-03 -1.056106e-02 -7.315927e-03 -1.878875e-02
## [11] -1.208625e-02 1.998168e-04 -2.177373e-02 -9.511183e-03 -1.707279e-02
## [16] 1.707564e-02 -1.865145e-03 1.096443e-02 1.095977e-02 1.837711e-02
## [21] -5.494274e-02 -7.749244e-02 -5.213577e-03 -7.202153e-02 3.113134e-02
## [26] 3.693173e-02 2.714062e-02 6.010129e-02 -1.552109e-02 -1.350600e-02
## [31] -3.755573e-02 -1.451237e-02 2.683628e-02 -3.458184e-03 6.781412e-02
## [36] 4.205889e-03 -1.756199e-02 2.275149e-02 -3.185356e-02 -2.735334e-03
## [41] 2.753291e-03 4.178934e-02 2.632383e-02 -3.018737e-02 -1.100933e-02
## [46] 1.843831e-04 3.279133e-02 5.950346e-03 1.609266e-02 2.361068e-02
## [51] -1.198427e-02 9.582682e-03 6.644234e-02 -3.350047e-02 -3.230282e-02
## [56] -8.202661e-02 -8.857629e-03 -1.912004e-02 -2.105000e-02 3.259258e-02
## [61] -2.027462e-02 1.952963e-17 4.221617e-02 1.622573e-02 3.557932e-02
## [66] -5.204915e-02 -1.378704e-02 -2.906506e-02 3.651722e-02 -2.536409e-03
## [71] -1.562918e-02 2.742123e-03 3.492265e-02 -1.962075e-04 6.357130e-02
## [76] -3.999461e-02 -5.466765e-03 9.479114e-03 -6.986395e-03 -3.098079e-02
## [81] 1.283730e-02 -3.826914e-17 -3.376188e-02 3.119118e-02 2.175134e-02
## [86] 2.110127e-02 -6.281626e-02 -2.369657e-02 -1.416353e-02 -4.042001e-04
## [91] -5.598137e-02 3.992572e-02 4.337728e-02 -2.019380e-03 3.181595e-02
## [96] -8.158485e-02 3.468416e-02 2.962884e-02 -4.159252e-02 -6.827199e-02
## [101] -2.084953e-02 2.943298e-02 7.827773e-02 -3.684030e-02 -3.138512e-02
```

```

## [106] -1.891468e-02 -2.674195e-02 2.422285e-02 -5.800643e-02 -3.804372e-02
## [111] 1.816740e-02 5.928214e-02 4.091067e-02 -4.655731e-02 -3.287721e-02
## [116] -6.733473e-02 8.248497e-02 -2.832651e-02 4.114223e-02 1.384407e-02
## [121] -2.795612e-02 -8.322966e-03 -4.708617e-02 -2.283769e-03 -3.644208e-02
## [126] -7.192048e-02 -3.205782e-02 1.921483e-02 2.765185e-02 2.709024e-02
## [131] -4.326297e-02 4.352750e-03 -3.414508e-03 2.001369e-02 6.057700e-03
## [136] 2.331365e-02 2.177674e-02 3.746542e-02 -2.627866e-02 7.481256e-04
## [141] 1.666982e-02 -4.065501e-02 -6.740123e-02 -1.118585e-02 -5.040827e-02
## [146] 1.212620e-02 4.441969e-02 -5.773504e-03 2.292562e-03 2.193849e-02
## [151] 1.234000e-02 -5.130535e-02 1.578885e-02 -5.024467e-02 -6.375855e-03
## [156] -3.337653e-03 2.373399e-02 4.523305e-03 5.382973e-02 5.962873e-03
## [161] 2.594478e-02 3.353818e-02 1.525101e-02 -1.254189e-02 -1.781176e-02
## [166] -2.646721e-02 3.951003e-02 -1.917617e-03 -1.339051e-02 2.094816e-02
## [171] -4.929193e-02 -1.119009e-02 -4.474447e-02 -2.324909e-02 -2.293318e-03
## [176] 3.188763e-02 3.122830e-02 8.192376e-03 4.597617e-03 -4.298842e-02
## [181] -1.856738e-02 1.848143e-02 -1.740888e-02 -3.785177e-02 -2.838649e-02
## [186] -5.326399e-02 -5.154310e-02 -1.358784e-02 1.071277e-02 1.015478e-02
## [191] -2.223470e-02 4.304605e-02 6.027379e-02 1.436817e-02 1.951639e-04
## [196] -4.354970e-02 -5.788336e-02 2.826062e-02 -4.104368e-02 6.192703e-03
## [201] -5.191900e-02 -9.911134e-02 8.772701e-03 -1.953615e-02 2.880830e-02
## [206] -6.667991e-03 -6.747963e-02 -8.787841e-03 -2.786645e-02 1.971770e-02
## [211] 5.469817e-02 5.514473e-03 -3.400535e-02 -3.575949e-03 -4.317779e-02
## [216] 2.931513e-02 -5.077116e-02 -2.160026e-02 -4.766506e-02 -7.074217e-03
## [221] -3.618529e-02 5.020935e-02 -1.001919e-01 2.294398e-02 -7.793511e-02
## [226] 1.799778e-02 1.990357e-02 4.784212e-02 5.826283e-02 5.380952e-02
## [231] -9.685435e-03 -1.512291e-02 -2.927349e-03 4.181270e-02 5.749828e-03
## [236] -3.557063e-02 2.318642e-02 1.043789e-02 -1.524797e-02 -1.103742e-02
## [241] 8.396766e-02 7.618308e-03 -2.900990e-02 -1.422471e-02 -1.952171e-02
## [246] 7.482321e-02 2.111696e-02 2.004052e-02 -6.403883e-02 -6.219685e-02
## [251] 2.599842e-02 3.170857e-02 8.859169e-02 -5.212545e-02 3.407365e-02
## [256] -5.996374e-03 -1.382336e-02 -1.078345e-02 2.021881e-02 -7.222273e-02
## [261] 3.532935e-02 1.754080e-02 -7.007562e-02 -4.312674e-03 -7.643086e-02
## [266] -7.918396e-02 2.220404e-02 2.304990e-02 -2.451205e-02 3.611290e-02
## [271] -6.831982e-02 -2.303132e-02 -8.294688e-03 -3.350686e-02 -4.788348e-02
## [276] 9.162202e-03 -1.888479e-02 6.935115e-02 -1.067080e-02 4.127603e-02
## [281] -3.753808e-02 2.025665e-02 -5.284496e-02 -4.094696e-03 -1.100964e-03
## [286] 2.256798e-02 -5.128328e-02 3.886782e-02 1.036885e-02 2.287151e-02
## [291] -1.149352e-02 -1.861066e-02 -3.614522e-02 -1.093558e-02 -8.093172e-02
## [296] -3.434157e-03 2.317483e-02 -5.368559e-02 -3.461918e-02 -2.488598e-02
## [301] 6.895428e-03 -4.563019e-02 -1.231533e-02 -1.896305e-02 -1.935709e-02
## [306] -2.326664e-02 -1.679300e-02 4.037033e-02 -4.488880e-03 -5.274202e-03
## [311] 2.021872e-02 -2.464304e-02 3.160994e-02 -2.914630e-02 3.382611e-03
## [316] 2.209130e-02 -6.764647e-02 3.761527e-02 -2.722040e-02 5.909097e-02
## [321] 3.977362e-04 -4.457138e-02 2.843368e-03 -4.551658e-02 -1.976981e-02
## [326] -2.833028e-02 5.801744e-03 5.138735e-02 -2.378376e-03 7.841107e-02
## [331] -1.010089e-02 1.565908e-02 1.216173e-02 8.073115e-02 5.979257e-03
## [336] 5.467964e-02 -1.244483e-02 3.054394e-02 2.422704e-02 -4.556117e-02
## [341] 5.751212e-02 -4.942073e-02 2.082163e-02 1.913058e-02 5.600200e-02
## [346] -4.901138e-02 -5.647082e-03 6.424904e-02 -5.014897e-02 1.013177e-02
## [351] -1.004111e-01 -2.349672e-03 -2.644156e-02 4.649296e-02 -1.375558e-02
## [356] -5.643383e-03 -2.245638e-02 -3.153905e-02 1.627765e-03 -1.988640e-02
## [361] -3.613172e-02 -2.075061e-04 -2.073211e-03 3.258844e-02 6.040092e-03
## [366] 2.907474e-02 -2.828606e-02 -4.291175e-02 6.224282e-03 2.203437e-02
## [371] -2.654275e-02 -8.791502e-02 -7.674189e-02 4.805707e-02 -4.409085e-02

```



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## [376] 2.625648e-02 3.449712e-02 -3.466003e-02 4.776964e-02 -2.489639e-02
## [381] 5.420651e-02 -7.805782e-02 -2.387404e-02 -4.823936e-02 2.530445e-02
## [386] 4.009369e-02 9.873664e-03 -6.838256e-03 1.200337e-02 3.225400e-02
## [391] 2.305113e-03 2.195756e-02 -1.158662e-03 4.525376e-03 1.319072e-02
## [396] -7.860295e-02 -1.797685e-02 -1.635796e-02 5.731331e-02 1.395720e-02
## [401] -3.065090e-02 7.423947e-03 -6.599173e-04 -5.028060e-02 2.740013e-02
## [406] -1.572842e-02 2.569708e-02 6.489680e-02 -3.606491e-02 1.439447e-02
## [411] -2.491912e-03 1.102026e-02 5.429104e-02 1.452844e-02 -3.228698e-02
## [416] 4.313041e-02 -9.835872e-03 2.228164e-02 -7.414433e-03 5.363091e-03
## [421] -9.033851e-02 5.351936e-02 -5.035635e-02 -8.935492e-03 4.794222e-02
## [426] 7.268838e-02 -1.609419e-02 -8.742958e-02 5.827838e-02 3.859956e-03
## [431] -1.103016e-02 3.532178e-02 -2.257176e-02 -6.992684e-02 7.697028e-03
## [436] 2.920856e-02 -4.451267e-02 5.146830e-02 5.314935e-02 5.805974e-03
## [441] -6.743345e-02 4.953971e-02 -1.300067e-02 2.394233e-02 -1.653145e-02
## [446] 1.944323e-03 1.424436e-02 1.371333e-03 -8.117676e-02 2.068827e-02
## [451] 3.642111e-02 -3.254584e-02 -3.398536e-02 7.650823e-02 1.625386e-02
## [456] -5.447702e-02 1.569844e-02 5.953459e-02 -5.273317e-02 -3.613344e-02
## [461] 3.934146e-02 -2.187339e-02 -3.179964e-02 1.169044e-03 1.869360e-02
## [466] 9.246092e-02 2.433547e-02 -2.065384e-02 -1.006595e-02 1.307397e-02
## [471] -5.862353e-03 -5.641162e-02 1.489848e-03 1.769190e-02 -5.261511e-02
## [476] 4.246879e-03 -1.461599e-02 -4.559193e-02 -6.898810e-02 -1.595481e-02
## [481] 2.835476e-02 3.894704e-02 1.418860e-02 -1.565171e-02 -7.021479e-03
## [486] -4.216459e-02 -4.562846e-02 -3.370053e-03 -5.525821e-02 -5.250115e-02
## [491] 5.581814e-02 1.089781e-02 -8.056333e-03 3.260339e-03 -2.352845e-02
## [496] -9.476360e-02 4.783313e-02 6.233370e-02 -2.800418e-02 -6.329043e-02
## [501] -3.093348e-02 8.487744e-03 4.537112e-03 4.737086e-02 2.009930e-02
## [506] 3.666710e-02 -4.087616e-02 -4.794258e-03 -2.482298e-02 4.382005e-02
## [511] -4.500999e-03 4.187454e-02 1.812808e-02 -3.648540e-02 -4.377853e-02
## [516] 9.234194e-03 -2.763077e-03 -1.862064e-02 3.038418e-02 2.493766e-02
## [521] -1.446596e-02 1.958273e-02 7.022128e-03 -3.988957e-02 -1.645560e-02
## [526] -7.106429e-03 4.354440e-02 2.251970e-04 1.091012e-02 -4.859343e-03
## [531] -2.302111e-02 4.847900e-02 3.571143e-02 3.043192e-02 4.725358e-02
## [536] 5.196124e-02 2.527232e-02 -2.745446e-02 3.187491e-02 2.219732e-02
## [541] 2.129960e-03 -2.687123e-02 5.172476e-03 1.077955e-02 3.544738e-02
## [546] -1.311092e-02 2.773689e-02 6.934911e-02 3.485810e-02 -1.511228e-02
## [551] -2.661233e-02 -5.298394e-02 -2.421469e-02 -6.042471e-04 -9.527690e-03
## [556] 2.429046e-02 -9.556168e-03 -3.454109e-03 2.667737e-02 1.254530e-02
## [561] -2.672885e-02 -2.677860e-02 -5.424596e-02 3.478650e-02 2.392073e-02
## [566] -4.594218e-02 -1.684528e-02 -7.936325e-04 3.776585e-03 2.122398e-02
## [571] -2.809319e-02 -3.096535e-02 -1.843785e-02 1.772162e-02 -6.898589e-02
## [576] -1.184115e-01 -1.922315e-02 7.310055e-02 -9.539857e-03 7.466373e-02
## [581] -7.086798e-03 -3.241814e-02 -1.506794e-02 3.083100e-02 -2.857332e-02
## [586] -2.669321e-03 -2.419483e-02 4.856768e-02 -1.301697e-02 6.939813e-03
## [591] 5.356520e-02 7.047183e-03 1.461423e-02 4.779142e-03 7.002389e-02
## [596] 4.538356e-02 -3.687740e-02 -4.467286e-02 -7.674102e-02 -4.816793e-02
## [601] 1.841699e-02 -5.298992e-02 5.985257e-04 -1.769291e-02 -4.462955e-02
## [606] -2.191017e-02 -4.206820e-03 -2.437587e-03 -2.077496e-02 -2.811194e-02
## [611] 7.736539e-03 3.097007e-02 -2.151842e-02 -2.665584e-02 -2.272629e-02
## [616] 3.662499e-02 -3.568356e-02 -2.869625e-02 2.400742e-02 3.339698e-02
## [621] 2.851801e-02 -2.344907e-02 -8.015255e-03 5.466044e-02 -1.712265e-02
## [626] 4.571455e-02 -3.498576e-03 3.278049e-02 -4.626158e-02 -2.843857e-02
## [631] 2.342442e-02 2.041210e-02 -3.941881e-02 1.024788e-02 -4.554282e-02
## [636] -8.470534e-03 -1.849932e-02 -2.505667e-02 1.656362e-02 -2.035776e-03
## [641] 7.595062e-03 1.039177e-02 -5.382896e-02 1.614432e-02 -3.967880e-03

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## [646] -5.522789e-02 -2.812110e-02 6.477675e-02 -2.703329e-02 7.819173e-02
## [651] 2.671843e-02 -3.698173e-02 3.517521e-02 1.282039e-02 -5.122332e-02
## [656] -2.565684e-02 2.670346e-02 -5.877437e-02 -9.311721e-03 -4.195613e-02
## [661] 2.094889e-02 -3.576360e-03 -3.277048e-02 -3.053014e-02 2.224704e-02
## [666] 3.508608e-02 -4.188255e-02 1.124568e-02 -1.369167e-02 1.371138e-02
## [671] -2.072593e-02 -6.475588e-03 1.153967e-02 1.756883e-02 2.765983e-02
## [676] -1.041535e-02 -3.736868e-03 -4.250312e-02 2.650730e-02 -6.426874e-04
## [681] 9.440403e-02 -2.326895e-02 2.266834e-02 2.297771e-02 -4.394350e-02
## [686] 6.300649e-02 4.302338e-02 -1.743057e-02 -1.811363e-02 1.176093e-02
## [691] 1.044846e-02 1.480993e-02 -5.505627e-03 -2.006910e-02 -6.691852e-02
## [696] -9.597044e-03 -9.377304e-03 1.366719e-02 2.977010e-02 8.906962e-03
## [701] -1.188016e-03 7.397153e-03 2.416585e-02 2.165404e-02 1.204777e-02
## [706] 2.136416e-02 3.193996e-02 3.161078e-02 4.973915e-03 6.484913e-02
## [711] -7.136430e-03 -4.115315e-02 -7.604783e-02 -4.827019e-02 5.253114e-02
## [716] -8.541255e-02 -4.639452e-02 2.448975e-02 5.629134e-03 -1.482658e-02
## [721] 6.772530e-04 -7.022749e-02 2.841410e-02 2.284409e-02 -2.884743e-02
## [726] -2.409492e-02 5.704215e-02 4.557864e-02 2.720210e-02 -3.368771e-02
## [731] 3.482789e-02 -1.696647e-02 1.042042e-02 4.569950e-02 6.068739e-03
## [736] -2.950404e-02 6.623569e-02 -3.115367e-02 -1.093771e-02 -8.706332e-03
## [741] 9.204291e-02 -1.291448e-02 3.024660e-02 3.791838e-02 -3.974867e-02
## [746] -2.174684e-02 1.548727e-02 -4.578771e-04 1.999158e-02 6.641547e-02
## [751] -7.604800e-02 7.159154e-17 -7.756376e-03 -2.082594e-02 -1.434305e-02
## [756] -6.124760e-02 -4.728766e-02 -4.891464e-02 -1.053569e-02 4.405679e-02
## [761] 2.703431e-02 -7.808721e-02 -4.728742e-02 3.716837e-02 3.596228e-03
## [766] 9.197502e-02 3.791860e-02 -9.121817e-02 5.531835e-02 8.601335e-02
## [771] 1.855639e-02 3.098860e-02 -1.602843e-02 1.035211e-02 3.605517e-02
## [776] -8.569582e-02 1.050698e-01 3.571024e-02 3.420763e-03 -1.692999e-02
## [781] 1.946917e-02 2.128363e-02 -5.811607e-02 -5.824877e-03 -4.741309e-02
## [786] -1.360636e-02 5.325756e-02 -7.283143e-03 1.294131e-02 1.188569e-01
## [791] -1.923130e-04 3.410307e-02 -5.478938e-02 3.883601e-02 -3.365544e-02
## [796] 5.635882e-02 8.156988e-04 7.836008e-02 1.071557e-02 9.426948e-02
## [801] -4.977806e-02 5.905747e-02 -6.290989e-02 -4.837944e-02 1.619040e-02
## [806] 8.475515e-03 1.528166e-02 -6.371794e-03 -3.100452e-02 -2.321453e-02
## [811] 3.251425e-02 -1.772386e-02 -4.369333e-02 -3.660407e-02 2.657108e-02
## [816] 2.390085e-02 -8.127173e-02 -4.907254e-02 -3.633400e-02 -1.101298e-01
## [821] -6.085674e-02 2.418391e-02 -2.095429e-02 -3.871486e-02 7.493397e-03
## [826] 2.635132e-02 -4.442170e-04 -4.404921e-02 1.052245e-01 -7.904237e-02
## [831] -6.329901e-02 6.940870e-03 -1.688626e-02 2.391556e-02 4.634390e-03
## [836] 4.446748e-02 -3.604864e-02 3.381506e-02 2.533127e-02 4.077577e-02
## [841] 7.347624e-02 -4.175197e-02 -7.629594e-03 -3.409091e-02 4.542112e-03
## [846] 1.284900e-01 -4.029321e-02 6.232586e-02 -6.245151e-02 1.599496e-02
## [851] -1.642608e-03 2.557958e-03 2.404548e-02 -1.047788e-02 1.556853e-02
## [856] 3.396293e-02 -4.315244e-02 -4.800796e-02 5.170014e-02 5.524427e-02
## [861] -4.107163e-02 -2.507394e-02 2.818577e-02 2.597728e-02 -3.300154e-02
## [866] 2.554880e-02 -5.209303e-02 -5.099793e-02 2.726809e-02 -6.825354e-03
## [871] -1.619445e-02 1.655514e-02 -1.469795e-02 2.276760e-02 4.091353e-02
## [876] -1.606573e-02 -4.157957e-02 9.148383e-03 4.044470e-02 -1.540907e-02
## [881] -9.535500e-03 -3.435573e-02 -2.002300e-02 -2.942326e-03 -2.922581e-02
## [886] 2.317287e-02 3.026201e-02 1.400832e-02 -1.986994e-02 -1.001675e-02
## [891] -1.749891e-02 -4.693583e-02 7.104656e-02 6.224704e-02 -1.508757e-02
## [896] -4.133253e-04 -1.942550e-02 -1.444051e-03 -2.701077e-02 -9.885243e-02
## [901] -2.833893e-02 3.597609e-02 7.724922e-02 7.308933e-02 -1.440465e-02
## [906] 3.111253e-02 3.716686e-02 -1.340556e-02 -1.974496e-02 7.070397e-02
## [911] -4.352161e-03 -6.777765e-03 -1.503264e-02 -6.282388e-02 -1.367397e-03

```

```
## [916] -4.926611e-02 -3.800746e-03 3.246922e-03 -4.967985e-02 6.338580e-02
## [921] -3.794707e-02 1.110183e-01 -3.594252e-02 -3.771608e-02 -1.745033e-03
## [926] -1.182573e-02 -4.720148e-02 1.966999e-03 8.319832e-03 3.317173e-02
## [931] -1.482851e-02 -3.586726e-02 -4.401475e-02 6.997555e-02 -2.519715e-02
## [936] 5.605268e-02 3.722239e-02 -1.435602e-02 1.212193e-02 -4.430681e-03
## [941] -1.930369e-04 -1.731634e-02 5.093686e-02 -3.760691e-02 -3.274836e-02
## [946] 5.960545e-02 -9.297211e-03 7.919896e-03 -2.801515e-02 2.790563e-02
## [951] -5.464150e-02 9.146295e-03 3.327699e-02 -5.651483e-02 -3.004608e-02
## [956] -3.078261e-02 1.615638e-02 4.116296e-03 -7.187364e-03 -1.576325e-02
## [961] -1.835108e-02 8.380832e-03 -1.507024e-02 3.725243e-03 5.122685e-02
## [966] -1.879996e-02 -1.383060e-02 2.123013e-02 -4.746587e-02 1.810001e-02
## [971] -4.348006e-02 1.760991e-02 2.547372e-03 -4.106905e-03 -4.869132e-03
## [976] 3.825901e-02 -3.135623e-02 4.524152e-02 4.073797e-02 7.040876e-03
## [981] 6.571798e-02 -4.775651e-02 -1.682217e-02 -6.330748e-03 2.701488e-02
## [986] -1.780985e-02 6.441608e-03 -7.072339e-02 3.240837e-02 -2.735990e-02
## [991] -7.008453e-02 -3.595384e-03 1.755695e-02 -2.373661e-02 3.577174e-02
## [996] -9.625447e-02 1.256525e-03 -2.365399e-02 1.341022e-02 -5.352410e-02
```

Part c

```
cores<-detectCores()
cl<-makeForkCluster(cores)
registerDoParallel(cl)

start_time <- Sys.time()
result<-foreach(j=1:Boot,.combine = rbind) %dopar% {
  bootdata<-data1%>% group_by(operator) %>% sample_n(20)
  c(coef(summary(lm(operator~y, data = bootdata)))[1,1],coef(summary(lm(operator~y, data = bootdata)))[1,2])
}
end_time <- Sys.time()
end_time - start_time
```

```
## Time difference of 4.350511 secs
```

```
result1<-as.data.frame(result)
colnames(result1)<-c('beta0','beta1')
result1
```

```
##           beta0           beta1
## result.1  2.900678  2.148426e-02
## result.2  2.900678  2.148426e-02
## result.3  2.900678  2.148426e-02
## result.4  2.900678  2.148426e-02
## result.5  3.130115 -2.747938e-02
## result.6  3.130115 -2.747938e-02
## result.7  3.130115 -2.747938e-02
## result.8  3.130115 -2.747938e-02
## result.9  3.024999 -5.457091e-03
## result.10 3.024999 -5.457091e-03
## result.11 3.024999 -5.457091e-03
## result.12 3.024999 -5.457091e-03
```

```

## result.13 3.047039 -1.048577e-02
## result.14 3.047039 -1.048577e-02
## result.15 3.047039 -1.048577e-02
## result.16 3.047039 -1.048577e-02
## result.17 2.873457 2.737242e-02
## result.18 2.873457 2.737242e-02
## result.19 2.873457 2.737242e-02
## result.20 2.873457 2.737242e-02
## result.21 3.108235 -2.194545e-02
## result.22 3.108235 -2.194545e-02
## result.23 3.108235 -2.194545e-02
## result.24 3.108235 -2.194545e-02
## result.25 2.890137 2.471601e-02
## result.26 2.890137 2.471601e-02
## result.27 2.890137 2.471601e-02
## result.28 2.890137 2.471601e-02
## result.29 2.880305 2.688566e-02
## result.30 2.880305 2.688566e-02
## result.31 2.880305 2.688566e-02
## result.32 2.880305 2.688566e-02
## result.33 3.094719 -2.126605e-02
## result.34 3.094719 -2.126605e-02
## result.35 3.094719 -2.126605e-02
## result.36 2.849360 3.290521e-02
## result.37 2.849360 3.290521e-02
## result.38 3.094719 -2.126605e-02
## result.39 2.849360 3.290521e-02
## result.40 2.849360 3.290521e-02
## result.41 2.943573 1.218734e-02
## result.42 2.943573 1.218734e-02
## result.43 2.943573 1.218734e-02
## result.44 2.943573 1.218734e-02
## result.45 2.944702 1.201609e-02
## result.46 2.944702 1.201609e-02
## result.47 2.944702 1.201609e-02
## result.48 3.269114 -5.647730e-02
## result.49 2.944702 1.201609e-02
## result.50 3.269114 -5.647730e-02
## result.51 3.269114 -5.647730e-02
## result.52 3.127304 -2.655479e-02
## result.53 3.269114 -5.647730e-02
## result.54 3.127304 -2.655479e-02
## result.55 3.127304 -2.655479e-02
## result.56 2.914805 1.831749e-02
## result.57 3.127304 -2.655479e-02
## result.58 2.914805 1.831749e-02
## result.59 2.914805 1.831749e-02
## result.60 2.825607 3.803552e-02
## result.61 2.914805 1.831749e-02
## result.62 2.825607 3.803552e-02
## result.63 2.825607 3.803552e-02
## result.64 3.112937 -2.466953e-02
## result.65 2.825607 3.803552e-02
## result.66 3.112937 -2.466953e-02

```

```

## result.67    3.112937 -2.466953e-02
## result.68    2.877565  2.657000e-02
## result.69    3.112937 -2.466953e-02
## result.70    2.877565  2.657000e-02
## result.71    2.877565  2.657000e-02
## result.72    2.989320  2.363912e-03
## result.73    2.877565  2.657000e-02
## result.74    2.989320  2.363912e-03
## result.75    2.989320  2.363912e-03
## result.76    2.985325  3.135714e-03
## result.77    2.989320  2.363912e-03
## result.78    2.985325  3.135714e-03
## result.79    2.985325  3.135714e-03
## result.80    3.195138 -4.299151e-02
## result.81    2.985325  3.135714e-03
## result.82    3.195138 -4.299151e-02
## result.83    3.195138 -4.299151e-02
## result.84    2.967039  7.076303e-03
## result.85    3.195138 -4.299151e-02
## result.86    2.967039  7.076303e-03
## result.87    2.981718  4.044619e-03
## result.88    2.967039  7.076303e-03
## result.89    2.967039  7.076303e-03
## result.90    2.981718  4.044619e-03
## result.91    2.981718  4.044619e-03
## result.92    3.020324 -4.543604e-03
## result.93    2.981718  4.044619e-03
## result.94    3.020324 -4.543604e-03
## result.95    3.020324 -4.543604e-03
## result.96    3.022969 -4.960810e-03
## result.97    3.020324 -4.543604e-03
## result.98    3.022969 -4.960810e-03
## result.99    3.022969 -4.960810e-03
## result.100   2.690726  6.726274e-02
## result.101   3.022969 -4.960810e-03
## result.102   2.690726  6.726274e-02
## result.103   3.349750 -7.581831e-02
## result.104   2.690726  6.726274e-02
## result.105   2.690726  6.726274e-02
## result.106   2.663311  7.365759e-02
## result.107   3.349750 -7.581831e-02
## result.108   3.349750 -7.581831e-02
## result.109   3.349750 -7.581831e-02
## result.110   3.257096 -5.614673e-02
## result.111   2.663311  7.365759e-02
## result.112   2.663311  7.365759e-02
## result.113   3.055687 -1.223622e-02
## result.114   3.257096 -5.614673e-02
## result.115   2.663311  7.365759e-02
## result.116   3.257096 -5.614673e-02
## result.117   3.055687 -1.223622e-02
## result.118   2.883393  2.441514e-02
## result.119   3.257096 -5.614673e-02
## result.120   3.055687 -1.223622e-02

```

```

## result.121 2.883393 2.441514e-02
## result.122 3.055687 -1.223622e-02
## result.123 2.972207 6.189897e-03
## result.124 2.883393 2.441514e-02
## result.125 2.883393 2.441514e-02
## result.126 2.910969 2.003404e-02
## result.127 2.972207 6.189897e-03
## result.128 2.972207 6.189897e-03
## result.129 2.962271 8.647424e-03
## result.130 2.972207 6.189897e-03
## result.131 2.910969 2.003404e-02
## result.132 2.910969 2.003404e-02
## result.133 2.910969 2.003404e-02
## result.134 2.808126 4.243122e-02
## result.135 2.962271 8.647424e-03
## result.136 2.962271 8.647424e-03
## result.137 2.962271 8.647424e-03
## result.138 2.813973 3.993703e-02
## result.139 2.808126 4.243122e-02
## result.140 2.808126 4.243122e-02
## result.141 2.773810 4.963577e-02
## result.142 2.808126 4.243122e-02
## result.143 2.813973 3.993703e-02
## result.144 3.042991 -9.509144e-03
## result.145 2.813973 3.993703e-02
## result.146 2.813973 3.993703e-02
## result.147 2.773810 4.963577e-02
## result.148 3.073548 -1.576599e-02
## result.149 2.773810 4.963577e-02
## result.150 2.773810 4.963577e-02
## result.151 3.042991 -9.509144e-03
## result.152 3.185571 -4.124716e-02
## result.153 3.042991 -9.509144e-03
## result.154 3.042991 -9.509144e-03
## result.155 3.073548 -1.576599e-02
## result.156 3.073548 -1.576599e-02
## result.157 2.807276 4.151738e-02
## result.158 3.073548 -1.576599e-02
## result.159 3.185571 -4.124716e-02
## result.160 3.185571 -4.124716e-02
## result.161 3.150526 -3.380324e-02
## result.162 3.185571 -4.124716e-02
## result.163 2.807276 4.151738e-02
## result.164 2.807276 4.151738e-02
## result.165 3.149615 -3.227233e-02
## result.166 2.807276 4.151738e-02
## result.167 3.150526 -3.380324e-02
## result.168 3.150526 -3.380324e-02
## result.169 3.174655 -3.923058e-02
## result.170 3.150526 -3.380324e-02
## result.171 3.149615 -3.227233e-02
## result.172 3.149615 -3.227233e-02
## result.173 2.884378 2.463720e-02
## result.174 3.174655 -3.923058e-02

```

```

## result.175 3.149615 -3.227233e-02
## result.176 3.174655 -3.923058e-02
## result.177 2.855730 3.275149e-02
## result.178 2.884378 2.463720e-02
## result.179 3.174655 -3.923058e-02
## result.180 2.884378 2.463720e-02
## result.181 3.227141 -4.957243e-02
## result.182 2.855730 3.275149e-02
## result.183 2.884378 2.463720e-02
## result.184 2.855730 3.275149e-02
## result.185 2.975722 5.455661e-03
## result.186 3.227141 -4.957243e-02
## result.187 3.227141 -4.957243e-02
## result.188 2.855730 3.275149e-02
## result.189 3.479435 -1.043158e-01
## result.190 2.975722 5.455661e-03
## result.191 2.975722 5.455661e-03
## result.192 3.227141 -4.957243e-02
## result.193 3.076322 -1.708959e-02
## result.194 3.479435 -1.043158e-01
## result.195 3.479435 -1.043158e-01
## result.196 2.975722 5.455661e-03
## result.197 3.076322 -1.708959e-02
## result.198 3.143821 -3.182578e-02
## result.199 3.076322 -1.708959e-02
## result.200 3.479435 -1.043158e-01
## result.201 2.706160 6.167926e-02
## result.202 3.143821 -3.182578e-02
## result.203 3.143821 -3.182578e-02
## result.204 3.076322 -1.708959e-02
## result.205 2.706160 6.167926e-02
## result.206 2.819013 3.903941e-02
## result.207 2.706160 6.167926e-02
## result.208 3.143821 -3.182578e-02
## result.209 2.819013 3.903941e-02
## result.210 2.978809 4.800864e-03
## result.211 2.819013 3.903941e-02
## result.212 2.978809 4.800864e-03
## result.213 2.880830 2.566661e-02
## result.214 2.706160 6.167926e-02
## result.215 2.978809 4.800864e-03
## result.216 3.049501 -1.034942e-02
## result.217 2.880830 2.566661e-02
## result.218 2.819013 3.903941e-02
## result.219 2.880830 2.566661e-02
## result.220 3.049501 -1.034942e-02
## result.221 2.797462 4.336079e-02
## result.222 2.978809 4.800864e-03
## result.223 3.049501 -1.034942e-02
## result.224 2.797462 4.336079e-02
## result.225 2.880830 2.566661e-02
## result.226 2.677191 7.470693e-02
## result.227 2.797462 4.336079e-02
## result.228 2.677191 7.470693e-02

```

```

## result.229 3.230500 -4.824185e-02
## result.230 3.049501 -1.034942e-02
## result.231 2.677191 7.470693e-02
## result.232 3.162665 -3.652115e-02
## result.233 2.797462 4.336079e-02
## result.234 3.230500 -4.824185e-02
## result.235 3.230500 -4.824185e-02
## result.236 2.929614 1.462103e-02
## result.237 3.162665 -3.652115e-02
## result.238 3.162665 -3.652115e-02
## result.239 2.677191 7.470693e-02
## result.240 2.858126 3.133958e-02
## result.241 2.929614 1.462103e-02
## result.242 2.929614 1.462103e-02
## result.243 3.116386 -2.524105e-02
## result.244 3.230500 -4.824185e-02
## result.245 2.858126 3.133958e-02
## result.246 2.858126 3.133958e-02
## result.247 3.162665 -3.652115e-02
## result.248 3.297544 -6.499443e-02
## result.249 3.116386 -2.524105e-02
## result.250 3.116386 -2.524105e-02
## result.251 2.929614 1.462103e-02
## result.252 2.930537 1.491899e-02
## result.253 3.297544 -6.499443e-02
## result.254 3.297544 -6.499443e-02
## result.255 2.858126 3.133958e-02
## result.256 3.008446 -1.942883e-03
## result.257 2.930537 1.491899e-02
## result.258 2.930537 1.491899e-02
## result.259 3.116386 -2.524105e-02
## result.260 3.303983 -6.547124e-02
## result.261 3.008446 -1.942883e-03
## result.262 3.008446 -1.942883e-03
## result.263 3.297544 -6.499443e-02
## result.264 3.056680 -1.241340e-02
## result.265 3.303983 -6.547124e-02
## result.266 3.303983 -6.547124e-02
## result.267 2.930537 1.491899e-02
## result.268 3.056680 -1.241340e-02
## result.269 3.056680 -1.241340e-02
## result.270 2.607657 8.676316e-02
## result.271 3.008446 -1.942883e-03
## result.272 3.704884 -1.525063e-01
## result.273 3.303983 -6.547124e-02
## result.274 2.607657 8.676316e-02
## result.275 3.427472 -9.153567e-02
## result.276 2.607657 8.676316e-02
## result.277 3.056680 -1.241340e-02
## result.278 3.704884 -1.525063e-01
## result.279 3.243573 -5.207894e-02
## result.280 3.704884 -1.525063e-01
## result.281 3.427472 -9.153567e-02
## result.282 3.006485 -1.452733e-03

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## result.283 3.427472 -9.153567e-02
## result.284 3.243573 -5.207894e-02
## result.285 2.607657 8.676316e-02
## result.286 3.205314 -4.478918e-02
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## result.288 3.006485 -1.452733e-03
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## result.291 3.006485 -1.452733e-03
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## result.295 3.205314 -4.478918e-02
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## result.297 3.243573 -5.207894e-02
## result.298 3.001832 -4.157171e-04
## result.299 3.349838 -7.567331e-02
## result.300 3.000879 -1.929291e-04
## result.301 3.006485 -1.452733e-03
## result.302 3.169236 -3.784340e-02
## result.303 3.000879 -1.929291e-04
## result.304 3.205314 -4.478918e-02
## result.305 3.001832 -4.157171e-04
## result.306 3.128201 -2.815748e-02
## result.307 3.001832 -4.157171e-04
## result.308 3.349838 -7.567331e-02
## result.309 3.169236 -3.784340e-02
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## result.312 3.128201 -2.815748e-02
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## result.317 3.001832 -4.157171e-04
## result.318 3.047862 -1.070734e-02
## result.319 3.191659 -4.213219e-02
## result.320 3.343473 -7.436094e-02
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## result.322 2.858480 2.960672e-02
## result.323 3.343473 -7.436094e-02
## result.324 3.047862 -1.070734e-02
## result.325 3.128201 -2.815748e-02
## result.326 3.226344 -5.051199e-02
## result.327 3.047862 -1.070734e-02
## result.328 2.858480 2.960672e-02
## result.329 3.191659 -4.213219e-02
## result.330 2.858480 2.960672e-02
## result.331 3.226344 -5.051199e-02
## result.332 3.156646 -3.383277e-02
## result.333 3.343473 -7.436094e-02
## result.334 2.880123 2.715847e-02
## result.335 3.226344 -5.051199e-02
## result.336 3.156646 -3.383277e-02

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## result.337 3.047862 -1.070734e-02
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## result.347 2.980581 4.594081e-03
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## result.352 2.643868 7.755483e-02
## result.353 2.880123 2.715847e-02
## result.354 2.643868 7.755483e-02
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## result.356 2.813473 3.974587e-02
## result.357 2.980581 4.594081e-03
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## result.359 2.813473 3.974587e-02
## result.360 3.089921 -1.909149e-02
## result.361 2.772764 4.999689e-02
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## result.364 3.059426 -1.296666e-02
## result.365 2.643868 7.755483e-02
## result.366 3.199962 -4.539432e-02
## result.367 3.059426 -1.296666e-02
## result.368 3.017749 -3.882998e-03
## result.369 2.813473 3.974587e-02
## result.370 3.199962 -4.539432e-02
## result.371 3.089921 -1.909149e-02
## result.372 3.210764 -4.487201e-02
## result.373 3.017749 -3.882998e-03
## result.374 2.898972 2.186757e-02
## result.375 3.210764 -4.487201e-02
## result.376 3.059426 -1.296666e-02
## result.377 3.199962 -4.539432e-02
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## result.379 2.898972 2.186757e-02
## result.380 3.017749 -3.882998e-03
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## result.382 3.087943 -1.941764e-02
## result.383 3.199962 -4.539432e-02
## result.384 2.944020 1.268817e-02
## result.385 2.898972 2.186757e-02
## result.386 2.944020 1.268817e-02
## result.387 3.087943 -1.941764e-02
## result.388 3.210764 -4.487201e-02
## result.389 3.208929 -4.504720e-02
## result.390 3.208929 -4.504720e-02

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## result.391 3.104953 -2.271225e-02
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## result.393 2.898972 2.186757e-02
## result.394 3.104953 -2.271225e-02
## result.395 3.286864 -6.345150e-02
## result.396 3.208929 -4.504720e-02
## result.397 3.087943 -1.941764e-02
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## result.400 3.111439 -2.366010e-02
## result.401 2.944020 1.268817e-02
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## result.403 3.111439 -2.366010e-02
## result.404 2.854573 3.201130e-02
## result.405 3.208929 -4.504720e-02
## result.406 3.111439 -2.366010e-02
## result.407 2.854573 3.201130e-02
## result.408 3.104953 -2.271225e-02
## result.409 2.869400 2.887465e-02
## result.410 2.854573 3.201130e-02
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## result.412 2.869400 2.887465e-02
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## result.418 3.230018 -5.024414e-02
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## result.422 2.869400 2.887465e-02
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## result.426 3.019509 -4.344898e-03
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## result.438 3.294928 -6.210316e-02
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## result.442 3.134460 -2.837903e-02
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## result.445 2.988372 2.730312e-03
## result.446 2.988372 2.730312e-03
## result.447 3.134460 -2.837903e-02
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## result.449 2.724056 6.104958e-02
## result.450 2.988372 2.730312e-03
## result.451 2.724056 6.104958e-02
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## result.453 3.093216 -2.013746e-02
## result.454 3.093216 -2.013746e-02
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## result.458 3.114698 -2.565958e-02
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## result.466 3.004299 -8.912608e-04
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## result.470 2.904231 2.071583e-02
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## result.478 3.034693 -7.383021e-03
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## result.482 3.358897 -7.650754e-02
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## result.490 3.040244 -8.647164e-03
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## result.494 2.927178 1.617193e-02
## result.495 3.358897 -7.650754e-02
## result.496 3.040244 -8.647164e-03
## result.497 3.286291 -6.359192e-02
## result.498 3.286291 -6.359192e-02

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## result.499 2.927178 1.617193e-02
## result.500 3.086450 -1.783219e-02
## result.501 3.286291 -6.359192e-02
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## result.503 3.071137 -1.566894e-02
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## result.507 2.774927 4.727436e-02
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## result.509 3.286291 -6.359192e-02
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## result.511 3.064777 -1.426799e-02
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## result.513 2.997216 5.807916e-04
## result.514 2.997216 5.807916e-04
## result.515 3.064777 -1.426799e-02
## result.516 3.071137 -1.566894e-02
## result.517 2.997216 5.807916e-04
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## result.519 2.804398 4.207408e-02
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## result.522 2.821102 3.800690e-02
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## result.551 2.931340 1.466156e-02
## result.552 3.131353 -2.977846e-02

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## result.553 2.894786 2.399962e-02
## result.554 2.894786 2.399962e-02
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## result.562 3.020878 -4.456254e-03
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## result.567 3.090849 -1.958796e-02
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## result.570 3.208942 -4.390470e-02
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## result.572 3.020878 -4.456254e-03
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## result.576 3.090849 -1.958796e-02
## result.577 2.967191 6.828103e-03
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## result.605 3.021648 -4.748516e-03
## result.606 3.137292 -3.007502e-02

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## result.616 2.583003 8.981193e-02
## result.617 2.709312 6.182222e-02
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## result.623 2.885131 2.592984e-02
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## result.639 3.247782 -5.435000e-02
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## result.656 3.119312 -2.533699e-02
## result.657 3.240472 -5.191531e-02
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## result.659 3.177405 -3.870081e-02
## result.660 3.140156 -3.144620e-02

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## result.661 2.853497 3.202242e-02
## result.662 3.119312 -2.533699e-02
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## result.664 2.723114 6.035008e-02
## result.665 3.247782 -5.435000e-02
## result.666 3.177405 -3.870081e-02
## result.667 3.027138 -5.847459e-03
## result.668 3.119312 -2.533699e-02
## result.669 2.854649 3.121796e-02
## result.670 2.968411 7.082800e-03
## result.671 2.925086 1.683468e-02
## result.672 3.177405 -3.870081e-02
## result.673 3.140156 -3.144620e-02
## result.674 3.027138 -5.847459e-03
## result.675 2.885179 2.365484e-02
## result.676 2.968411 7.082800e-03
## result.677 2.723114 6.035008e-02
## result.678 2.778248 4.820696e-02
## result.679 2.925086 1.683468e-02
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## result.683 2.885179 2.365484e-02
## result.684 2.925086 1.683468e-02
## result.685 3.177405 -3.870081e-02
## result.686 3.088322 -1.957050e-02
## result.687 2.778248 4.820696e-02
## result.688 2.885179 2.365484e-02
## result.689 2.968411 7.082800e-03
## result.690 3.114628 -2.548996e-02
## result.691 2.727715 5.804420e-02
## result.692 2.778248 4.820696e-02
## result.693 3.027138 -5.847459e-03
## result.694 3.088322 -1.957050e-02
## result.695 2.801824 4.251790e-02
## result.696 2.727715 5.804420e-02
## result.697 2.925086 1.683468e-02
## result.698 3.114628 -2.548996e-02
## result.699 2.745175 5.573610e-02
## result.700 3.088322 -1.957050e-02
## result.701 2.885179 2.365484e-02
## result.702 2.831675 3.745551e-02
## result.703 2.801824 4.251790e-02
## result.704 3.114628 -2.548996e-02
## result.705 2.778248 4.820696e-02
## result.706 2.745175 5.573610e-02
## result.707 2.978625 4.843755e-03
## result.708 2.801824 4.251790e-02
## result.709 2.727715 5.804420e-02
## result.710 2.831675 3.745551e-02
## result.711 2.897929 2.205509e-02
## result.712 2.745175 5.573610e-02
## result.713 3.088322 -1.957050e-02
## result.714 2.978625 4.843755e-03

```



```

## result.715 3.165736 -3.508376e-02
## result.716 2.831675 3.745551e-02
## result.717 3.114628 -2.548996e-02
## result.718 3.057791 -1.269013e-02
## result.719 2.897929 2.205509e-02
## result.720 2.978625 4.843755e-03
## result.721 2.801824 4.251790e-02
## result.722 3.165736 -3.508376e-02
## result.723 2.897929 2.205509e-02
## result.724 2.745175 5.573610e-02
## result.725 3.057791 -1.269013e-02
## result.726 2.794942 4.399443e-02
## result.727 3.165736 -3.508376e-02
## result.728 2.831675 3.745551e-02
## result.729 2.798114 4.085934e-02
## result.730 2.978625 4.843755e-03
## result.731 3.057791 -1.269013e-02
## result.732 2.794942 4.399443e-02
## result.733 2.934952 1.451327e-02
## result.734 2.897929 2.205509e-02
## result.735 2.798114 4.085934e-02
## result.736 2.976936 5.012846e-03
## result.737 3.165736 -3.508376e-02
## result.738 2.794942 4.399443e-02
## result.739 2.934952 1.451327e-02
## result.740 3.057791 -1.269013e-02
## result.741 3.108578 -2.366570e-02
## result.742 2.798114 4.085934e-02
## result.743 2.976936 5.012846e-03
## result.744 3.186482 -4.152350e-02
## result.745 3.108578 -2.366570e-02
## result.746 2.934952 1.451327e-02
## result.747 2.794942 4.399443e-02
## result.748 3.079427 -1.810920e-02
## result.749 3.186482 -4.152350e-02
## result.750 2.976936 5.012846e-03
## result.751 2.798114 4.085934e-02
## result.752 2.869762 2.750530e-02
## result.753 3.079427 -1.810920e-02
## result.754 3.108578 -2.366570e-02
## result.755 2.934952 1.451327e-02
## result.756 3.397191 -8.615857e-02
## result.757 2.869762 2.750530e-02
## result.758 3.186482 -4.152350e-02
## result.759 2.976936 5.012846e-03
## result.760 3.000000 -1.042711e-17
## result.761 3.397191 -8.615857e-02
## result.762 3.079427 -1.810920e-02
## result.763 3.108578 -2.366570e-02
## result.764 3.000000 -1.042711e-17
## result.765 2.975053 5.358003e-03
## result.766 2.869762 2.750530e-02
## result.767 3.186482 -4.152350e-02
## result.768 2.975053 5.358003e-03

```

```

## result.769 2.862556 2.878404e-02
## result.770 3.079427 -1.810920e-02
## result.771 3.397191 -8.615857e-02
## result.772 2.920150 1.828914e-02
## result.773 2.862556 2.878404e-02
## result.774 3.000000 -1.042711e-17
## result.775 2.869762 2.750530e-02
## result.776 2.920150 1.828914e-02
## result.777 2.729482 5.796401e-02
## result.778 2.975053 5.358003e-03
## result.779 3.397191 -8.615857e-02
## result.780 2.729482 5.796401e-02
## result.781 2.952625 1.050208e-02
## result.782 2.862556 2.878404e-02
## result.783 3.000000 -1.042711e-17
## result.784 2.952625 1.050208e-02
## result.785 2.871264 2.883865e-02
## result.786 2.920150 1.828914e-02
## result.787 2.975053 5.358003e-03
## result.788 2.871264 2.883865e-02
## result.789 2.614289 8.482749e-02
## result.790 2.729482 5.796401e-02
## result.791 2.862556 2.878404e-02
## result.792 2.614289 8.482749e-02
## result.793 3.042052 -9.589919e-03
## result.794 2.952625 1.050208e-02
## result.795 2.920150 1.828914e-02
## result.796 3.042052 -9.589919e-03
## result.797 2.798868 4.230790e-02
## result.798 2.871264 2.883865e-02
## result.799 2.729482 5.796401e-02
## result.800 2.798868 4.230790e-02
## result.801 2.881000 2.666958e-02
## result.802 2.952625 1.050208e-02
## result.803 2.614289 8.482749e-02
## result.804 2.881000 2.666958e-02
## result.805 2.723236 6.143491e-02
## result.806 3.042052 -9.589919e-03
## result.807 2.871264 2.883865e-02
## result.808 2.723236 6.143491e-02
## result.809 2.978294 4.787434e-03
## result.810 2.614289 8.482749e-02
## result.811 2.798868 4.230790e-02
## result.812 2.978294 4.787434e-03
## result.813 3.333469 -7.423626e-02
## result.814 3.042052 -9.589919e-03
## result.815 2.881000 2.666958e-02
## result.816 3.333469 -7.423626e-02
## result.817 3.040633 -9.272685e-03
## result.818 2.798868 4.230790e-02
## result.819 2.723236 6.143491e-02
## result.820 3.040633 -9.272685e-03
## result.821 2.762247 5.196787e-02
## result.822 2.978294 4.787434e-03

```

```

## result.823 2.881000 2.666958e-02
## result.824 2.762247 5.196787e-02
## result.825 3.100241 -2.272011e-02
## result.826 2.723236 6.143491e-02
## result.827 3.333469 -7.423626e-02
## result.828 3.100241 -2.272011e-02
## result.829 2.968223 7.070900e-03
## result.830 2.978294 4.787434e-03
## result.831 3.040633 -9.272685e-03
## result.832 2.968223 7.070900e-03
## result.833 3.246651 -5.470192e-02
## result.834 3.333469 -7.423626e-02
## result.835 2.762247 5.196787e-02
## result.836 3.246651 -5.470192e-02
## result.837 2.974375 5.746868e-03
## result.838 3.040633 -9.272685e-03
## result.839 3.100241 -2.272011e-02
## result.840 2.974375 5.746868e-03
## result.841 2.922281 1.717930e-02
## result.842 2.762247 5.196787e-02
## result.843 2.968223 7.070900e-03
## result.844 2.922281 1.717930e-02
## result.845 3.297677 -6.450209e-02
## result.846 3.100241 -2.272011e-02
## result.847 3.246651 -5.470192e-02
## result.848 3.054617 -1.148382e-02
## result.849 3.297677 -6.450209e-02
## result.850 2.974375 5.746868e-03
## result.851 2.968223 7.070900e-03
## result.852 3.054617 -1.148382e-02
## result.853 3.289251 -6.611459e-02
## result.854 2.922281 1.717930e-02
## result.855 3.246651 -5.470192e-02
## result.856 2.899917 2.268420e-02
## result.857 3.289251 -6.611459e-02
## result.858 2.974375 5.746868e-03
## result.859 3.297677 -6.450209e-02
## result.860 2.820721 3.825834e-02
## result.861 2.899917 2.268420e-02
## result.862 2.922281 1.717930e-02
## result.863 3.054617 -1.148382e-02
## result.864 2.934005 1.474418e-02
## result.865 2.820721 3.825834e-02
## result.866 3.297677 -6.450209e-02
## result.867 3.289251 -6.611459e-02
## result.868 3.017148 -3.825201e-03
## result.869 2.934005 1.474418e-02
## result.870 3.054617 -1.148382e-02
## result.871 2.899917 2.268420e-02
## result.872 3.070634 -1.563394e-02
## result.873 3.017148 -3.825201e-03
## result.874 2.820721 3.825834e-02
## result.875 3.289251 -6.611459e-02
## result.876 2.801234 4.349362e-02

```

```

## result.877 3.070634 -1.563394e-02
## result.878 2.899917 2.268420e-02
## result.879 2.934005 1.474418e-02
## result.880 2.801234 4.349362e-02
## result.881 3.011258 -2.394875e-03
## result.882 2.820721 3.825834e-02
## result.883 3.017148 -3.825201e-03
## result.884 2.989996 2.047974e-03
## result.885 3.011258 -2.394875e-03
## result.886 2.934005 1.474418e-02
## result.887 3.070634 -1.563394e-02
## result.888 3.254723 -5.915527e-02
## result.889 2.989996 2.047974e-03
## result.890 3.017148 -3.825201e-03
## result.891 2.801234 4.349362e-02
## result.892 3.245968 -5.187019e-02
## result.893 3.254723 -5.915527e-02
## result.894 3.070634 -1.563394e-02
## result.895 3.011258 -2.394875e-03
## result.896 3.188285 -4.103864e-02
## result.897 3.245968 -5.187019e-02
## result.898 2.801234 4.349362e-02
## result.899 2.989996 2.047974e-03
## result.900 2.725398 6.191706e-02
## result.901 3.188285 -4.103864e-02
## result.902 3.011258 -2.394875e-03
## result.903 3.254723 -5.915527e-02
## result.904 2.725398 6.191706e-02
## result.905 3.203651 -4.418549e-02
## result.906 2.989996 2.047974e-03
## result.907 3.245968 -5.187019e-02
## result.908 2.895034 2.251522e-02
## result.909 3.203651 -4.418549e-02
## result.910 3.254723 -5.915527e-02
## result.911 3.188285 -4.103864e-02
## result.912 2.909647 1.959926e-02
## result.913 2.895034 2.251522e-02
## result.914 3.245968 -5.187019e-02
## result.915 2.725398 6.191706e-02
## result.916 2.809148 4.376339e-02
## result.917 2.909647 1.959926e-02
## result.918 3.188285 -4.103864e-02
## result.919 3.203651 -4.418549e-02
## result.920 3.069500 -1.498162e-02
## result.921 2.809148 4.376339e-02
## result.922 2.895034 2.251522e-02
## result.923 2.725398 6.191706e-02
## result.924 3.083348 -1.850130e-02
## result.925 3.069500 -1.498162e-02
## result.926 2.909647 1.959926e-02
## result.927 3.203651 -4.418549e-02
## result.928 3.083348 -1.850130e-02
## result.929 2.773182 5.099335e-02
## result.930 2.809148 4.376339e-02

```

```

## result.931 2.895034 2.251522e-02
## result.932 2.773182 5.099335e-02
## result.933 2.897651 2.234686e-02
## result.934 3.069500 -1.498162e-02
## result.935 2.909647 1.959926e-02
## result.936 2.897651 2.234686e-02
## result.937 3.083348 -1.850130e-02
## result.938 2.997426 5.482581e-04
## result.939 2.809148 4.376339e-02
## result.940 2.997426 5.482581e-04
## result.941 2.918426 1.789679e-02
## result.942 2.773182 5.099335e-02
## result.943 2.918426 1.789679e-02
## result.944 3.069500 -1.498162e-02
## result.945 3.188927 -4.031739e-02
## result.946 2.897651 2.234686e-02
## result.947 3.188927 -4.031739e-02
## result.948 3.083348 -1.850130e-02
## result.949 3.089902 -2.036750e-02
## result.950 3.089902 -2.036750e-02
## result.951 2.997426 5.482581e-04
## result.952 2.773182 5.099335e-02
## result.953 2.993643 1.313900e-03
## result.954 2.918426 1.789679e-02
## result.955 2.897651 2.234686e-02
## result.956 2.993643 1.313900e-03
## result.957 3.188927 -4.031739e-02
## result.958 2.997426 5.482581e-04
## result.959 2.729145 6.039135e-02
## result.960 3.089902 -2.036750e-02
## result.961 2.918426 1.789679e-02
## result.962 2.729145 6.039135e-02
## result.963 2.745907 5.456149e-02
## result.964 2.993643 1.313900e-03
## result.965 3.188927 -4.031739e-02
## result.966 2.745907 5.456149e-02
## result.967 2.779371 4.671373e-02
## result.968 3.089902 -2.036750e-02
## result.969 2.779371 4.671373e-02
## result.970 3.155788 -3.507153e-02
## result.971 2.729145 6.039135e-02
## result.972 2.993643 1.313900e-03
## result.973 3.155788 -3.507153e-02
## result.974 2.845392 3.254216e-02
## result.975 2.745907 5.456149e-02
## result.976 2.845392 3.254216e-02
## result.977 2.917834 1.726895e-02
## result.978 2.779371 4.671373e-02
## result.979 2.729145 6.039135e-02
## result.980 2.917834 1.726895e-02
## result.981 3.061034 -1.305818e-02
## result.982 3.155788 -3.507153e-02
## result.983 2.745907 5.456149e-02
## result.984 3.061034 -1.305818e-02

```

```
## result.985 2.965504 7.722304e-03
## result.986 2.845392 3.254216e-02
## result.987 2.779371 4.671373e-02
## result.988 2.965504 7.722304e-03
## result.989 2.830559 3.586812e-02
## result.990 2.917834 1.726895e-02
## result.991 3.155788 -3.507153e-02
## result.992 2.940781 1.325400e-02
## result.993 2.830559 3.586812e-02
## result.994 3.061034 -1.305818e-02
## result.995 2.845392 3.254216e-02
## result.996 2.838786 3.511528e-02
## result.997 2.940781 1.325400e-02
## result.998 2.965504 7.722304e-03
## result.999 2.917834 1.726895e-02
## result.1000 3.003154 -6.765967e-04
```

```
stopCluster(cl)
```

P10

Part a

```
tolerance <- .00001
g <- function(x) {3^x -sin(x)+cos(5*x)}
gPrime <- function(x) {3^x*log(3)-cos(x)-5*sin(5*x)}
start<-seq(-4,0,length.out=1000)
df <- data.frame(start)
df[] <- lapply(df, function(x) {
  while ((abs(3^x -sin(x)+cos(5*x))) > tolerance) {
    x = x - g(x)/gPrime(x)
  }
  return(x)
})
```

```
## Warning in while ((abs(3^x - sin(x) + cos(5 * x))) > tolerance) {: the condition
## has length > 1 and only the first element will be used
```

```
## Warning in while ((abs(3^x - sin(x) + cos(5 * x))) > tolerance) {: the condition
## has length > 1 and only the first element will be used
```

```
## Warning in while ((abs(3^x - sin(x) + cos(5 * x))) > tolerance) {: the condition
## has length > 1 and only the first element will be used
```

```
## Warning in while ((abs(3^x - sin(x) + cos(5 * x))) > tolerance) {: the condition
## has length > 1 and only the first element will be used
```

```
colnames(df)<-c('result')
final<-cbind(start,df)
final
```

##	start	result
## 1	-4.000000000	-3.93011355
## 2	-3.995995996	-3.93011355
## 3	-3.991991992	-3.93011355
## 4	-3.987987988	-3.93011355
## 5	-3.983983984	-3.93011354
## 6	-3.979979980	-3.93011354
## 7	-3.975975976	-3.93011354
## 8	-3.971971972	-3.93011354
## 9	-3.967967968	-3.93011354
## 10	-3.963963964	-3.93011354
## 11	-3.959959960	-3.93011354
## 12	-3.955955956	-3.93011354
## 13	-3.951951952	-3.93011354
## 14	-3.947947948	-3.93011354
## 15	-3.943943944	-3.93011354
## 16	-3.939939940	-3.93011354
## 17	-3.935935936	-3.93011354
## 18	-3.931931932	-3.93011354
## 19	-3.927927928	-3.93011354
## 20	-3.923923924	-3.93011354
## 21	-3.919919920	-3.93011354
## 22	-3.915915916	-3.93011354
## 23	-3.911911912	-3.93011354
## 24	-3.907907908	-3.93011354
## 25	-3.903903904	-3.93011354
## 26	-3.899899900	-3.93011354
## 27	-3.895895896	-3.93011354
## 28	-3.891891892	-3.93011354
## 29	-3.887887888	-3.93011355
## 30	-3.883883884	-3.93011355
## 31	-3.879879880	-3.93011356
## 32	-3.875875876	-3.93011358
## 33	-3.871871872	-3.93011362
## 34	-3.867867868	-3.93011369
## 35	-3.863863864	-3.93011381
## 36	-3.859859860	-3.93011402
## 37	-3.855855856	-3.93011437
## 38	-3.851851852	-3.93011495
## 39	-3.847847848	-3.93011588
## 40	-3.843843844	-3.93011735
## 41	-3.839839840	-3.93011962
## 42	-3.835835836	-3.93012308
## 43	-3.831831832	-3.93012822
## 44	-3.827827828	-3.93013574
## 45	-3.823823824	-3.93014648
## 46	-3.819819820	-3.93016150
## 47	-3.815815816	-3.93018189
## 48	-3.811811812	-3.93020861
## 49	-3.807807808	-3.93024197
## 50	-3.803803804	-3.93028059
## 51	-3.799799800	-3.93031959
## 52	-3.795795796	-3.93034756
## 53	-3.791791792	-3.93034257

## 54	-3.787787788	-3.93027266
## 55	-3.783783784	-3.93013837
## 56	-3.779779780	-3.93033513
## 57	-3.775775776	-3.93521549
## 58	-3.771771772	-4.04975147
## 59	-3.767767768	-3.52783165
## 60	-3.763763764	5.26605131
## 61	-3.759759760	-5.14383687
## 62	-3.755755756	-4.96130188
## 63	-3.751751752	-4.96960546
## 64	-3.747747748	-5.11573682
## 65	-3.743743744	-6.02115220
## 66	-3.739739740	-8.25698827
## 67	-3.735735736	121.71875064
## 68	-3.731731732	0.87767403
## 69	-3.727727728	-1.92460034
## 70	-3.723723724	-1.90896358
## 71	-3.719719720	1.29885608
## 72	-3.715715716	-2.88705769
## 73	-3.711711712	-2.88704116
## 74	-3.707707708	-2.88736441
## 75	-3.703703704	-1.96418069
## 76	-3.699699700	-6.24982988
## 77	-3.695695696	-3.93947052
## 78	-3.691691692	-3.43235347
## 79	-3.687687688	-3.51971511
## 80	-3.683683684	-3.52707343
## 81	-3.679679680	-3.52836760
## 82	-3.675675676	-3.52864956
## 83	-3.671671672	-3.52871191
## 84	-3.667667668	-3.52872253
## 85	-3.663663664	-3.52872204
## 86	-3.659659660	-3.52872035
## 87	-3.655655656	-3.52871945
## 88	-3.651651652	-3.52871935
## 89	-3.647647648	-3.52871973
## 90	-3.643643644	-3.52872030
## 91	-3.639639640	-3.52872089
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## 957 -0.172172172 -2.88668897
## 958 -0.168168168 -1.92139304
## 959 -0.164164164 -0.53552881
## 960 -0.160160160 -0.57815055
## 961 -0.156156156 -0.61231336
## 962 -0.152152152 -0.64503405
## 963 -0.148148148 -0.68618219
## 964 -0.144144144 -0.75986583
## 965 -0.140140140 -1.02773746
## 966 -0.136136136 0.18764040
## 967 -0.132132132 -0.40847115
## 968 -0.128128128 -0.50265417
## 969 -0.124124124 -0.54409145
## 970 -0.120120120 -0.56895297
## 971 -0.116116116 -0.58636103

```



```
## 972 -0.112112112 -0.59964994
## 973 -0.108108108 -0.61025916
## 974 -0.104104104 -0.61880668
## 975 -0.100100100 -0.62543145
## 976 -0.096096096 -0.62985133
## 977 -0.092092092 -0.63119019
## 978 -0.088088088 -0.62731741
## 979 -0.084084084 -0.61214245
## 980 -0.080080080 -0.54939010
## 981 -0.076076076 -0.66100083
## 982 -0.072072072 -0.52525197
## 983 -0.068068068 0.59223957
## 984 -0.064064064 -5.14452527
## 985 -0.060060060 -1.98270033
## 986 -0.056056056 -2.12521039
## 987 -0.052052052 -1.88503498
## 988 -0.048048048 -1.88803506
## 989 -0.044044044 -1.96328286
## 990 -0.040040040 -1.88088631
## 991 -0.036036036 -1.89641031
## 992 -0.032032032 -1.93943252
## 993 -0.028028028 -2.86115392
## 994 -0.024024024 -2.88684579
## 995 -0.020020020 -3.52872154
## 996 -0.016016016 -3.93048141
## 997 -0.012012012 -5.11060198
## 998 -0.008008008 -7.04991307
## 999 -0.004004004 -10.21036065
## 1000 0.000000000 -20.65198810
```

Part b

Sorry professor I didn't run below because my computer dies every time I run it.

```
#cores<-detectCores()
#cl<-makeForkCluster(cores)
#parLapply(cl,seq(-4,0,length.out=1000),function(exponent) {
#   tolerance <- .00001
#   while ((abs(3^exponent -sin(exponent)+cos(5*exponent))) > tolerance) {
#     exponent = exponent - (3^exponent-sin(exponent)+cos(5*exponent))/(3^exponent*log(3)-cos(exponent)-5*sin(5
#   }
#   return(exponent)
#})
#stopCluster(cl)
```