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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)

##           speed           dist
##  Min.      : 4.0    Min.      :  2.00
## 1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##   Mean  :15.4    Mean   : 42.98
## 3rd Qu.:19.0    3rd Qu.: 56.00
##   Max.  :25.0    Max.    :120.00
```

Including Plots

You can also embed plots, for example:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

create a vector for rainfall amounts

```
rainfall <- c(0.1,0.6,33.8,1.9,9.6,4.3,33.7,0.3,0.0,0.1)
```

calculate the mean and standard deviation

```
mean_rainfall <- mean(rainfall)
sd_rainfall <- sd(rainfall)
print(mean(rainfall))

## [1] 8.44

print(sd(rainfall))

## [1] 13.66473
```

display the cumulative rainfall

```
cum_rainfall <- cumsum(rainfall)
cum_rainfall

## [1] 0.1 0.7 34.5 36.4 46.0 50.3 84.0 84.3 84.3 84.4
```

find the day with the highest and lowest rainfall

```
max_rainfall_day <- which.max(rainfall)
min_rainfall_day <- which.min(rainfall)
print(max_rainfall_day)

## [1] 3

print(min_rainfall_day)

## [1] 9

cat("Day with highest rainfall:", max_rainfall_day, "\n")

## Day with highest rainfall: 3

cat("Day with lowest rainfall:", min_rainfall_day)

## Day with lowest rainfall: 9
```

create a vector of 20 random letters from the alphabet

```
rand_letters <- sample(LETTERS, 20, replace = TRUE)
sort(rand_letters)

## [1] "B" "E" "F" "G" "J" "J" "K" "M" "M" "N" "O" "Q" "T" "U" "V" "V" "W" "X" "X"
## [20] "Z"
```

create a 10 x 10 matrix with random numbers

```
mat <- matrix(runif(100), nrow = 10, ncol = 10)
print(mat)

##           [,1]      [,2]      [,3]      [,4]      [,5]      [,6]
## [1,] 0.79296025 0.51416396 0.63358872 0.74647880 0.98411602 0.4347844911
## [2,] 0.38761046 0.22135447 0.49857309 0.23284756 0.98439023 0.4407266991
## [3,] 0.20066635 0.08212493 0.62728825 0.22976597 0.69389146 0.8910958248
## [4,] 0.88823246 0.67140608 0.62539280 0.34692465 0.39423366 0.8308150028
## [5,] 0.02511417 0.62100997 0.04066743 0.04285148 0.68993119 0.0278911951
## [6,] 0.38779018 0.15322020 0.05742409 0.75349483 0.41448414 0.0003051325
## [7,] 0.24731488 0.33401500 0.67664742 0.30240736 0.16259298 0.4355343648
## [8,] 0.16756880 0.08085381 0.46323936 0.52042638 0.74439800 0.2661308106
## [9,] 0.25433035 0.48946654 0.51412499 0.94153682 0.79828213 0.2842581845
```

```
## [10,] 0.01337143 0.74813517 0.18209814 0.36097413 0.03106918 0.7038261916
##           [,7]           [,8]           [,9]           [,10]
## [1,] 0.79030941 0.03862917 0.01543523 0.371457960
## [2,] 0.35135905 0.90957524 0.26461555 0.681663033
## [3,] 0.40750759 0.25822191 0.72752595 0.568630725
## [4,] 0.37514568 0.40524413 0.96380966 0.875226646
## [5,] 0.53659972 0.72853503 0.02782917 0.799892903
## [6,] 0.68386158 0.19686830 0.91309856 0.013949384
## [7,] 0.73081073 0.04212913 0.99725161 0.661025547
## [8,] 0.03494332 0.56696772 0.40124804 0.567236558
## [9,] 0.90359552 0.91782265 0.95746477 0.006593851
## [10,] 0.77127493 0.48475840 0.56587265 0.672963007
```

calculate the column means and standard deviation

```
col_means <- colMeans(mat)
col_sd <- apply(mat, 2, sd)
print(col_means)

## [1] 0.3364959 0.3915750 0.4319044 0.4477708 0.5897389 0.4315368 0.5585408
## [8] 0.4548752 0.5834151 0.5218640

print(col_sd)

## [1] 0.2945949 0.2503553 0.2458726 0.2844662 0.3271223 0.3060157 0.2661291
## [8] 0.3267250 0.3875472 0.3018915
```

create a matrix with 100 columns and 10 rows

```
mat2 <- matrix(runif(1000), nrow = 10, ncol = 100)
print(mat2)

##           [,1]           [,2]           [,3]           [,4]           [,5]           [,6]
## [1,] 0.6940850 0.2209152 0.5779421 0.69396987 0.33012605 0.7484524 0.0031
## 74628
## [2,] 0.6546945 0.4933201 0.3378675 0.84995557 0.81765894 0.2660248 0.8922
## 28944
## [3,] 0.5443960 0.4983827 0.3619026 0.18816138 0.13707077 0.4564289 0.1240
## 47986
## [4,] 0.3445408 0.1486853 0.0819185 0.05903929 0.03561366 0.5487207 0.1825
## 24195
## [5,] 0.7503316 0.3628482 0.7342313 0.09783788 0.72890365 0.7312283 0.0838
## 01840
## [6,] 0.9612492 0.3967256 0.6909119 0.19749596 0.97736371 0.1052921 0.3029
## 98376
## [7,] 0.1289783 0.8964268 0.8329291 0.35954628 0.22985008 0.4359280 0.4546
## 00146
## [8,] 0.6438775 0.4611763 0.3087275 0.29598362 0.19520158 0.1650254 0.9661
## 35830
```

```

## [9,] 0.8374568 0.6433013 0.1917307 0.19286519 0.05770870 0.7143291 0.5920
70616
## [10,] 0.9966801 0.4748866 0.0872178 0.62436092 0.31469100 0.9091927 0.8831
52833
##           [,8]           [,9]           [,10]           [,11]           [,12]           [,13]
## [1,] 0.490687585 0.502375635 0.8128828 0.9703281 0.6125858 0.09346178
## [2,] 0.265230652 0.394426199 0.3228075 0.4596078 0.5658393 0.24398362
## [3,] 0.002728684 0.339149188 0.8309328 0.2547744 0.9055787 0.54955765
## [4,] 0.216968730 0.349647458 0.8876421 0.7579221 0.9665001 0.47116958
## [5,] 0.055901779 0.629987580 0.7794107 0.5925777 0.5477447 0.14535761
## [6,] 0.270639114 0.638389613 0.1431800 0.3080115 0.9425267 0.44291778
## [7,] 0.895720202 0.502008670 0.5817457 0.5489795 0.7583329 0.66924436
## [8,] 0.461444645 0.697114531 0.1185910 0.4846590 0.8632418 0.94436416
## [9,] 0.448551648 0.099093074 0.1427674 0.9064607 0.6201646 0.80729042
## [10,] 0.060494872 0.004420717 0.9876443 0.1383889 0.8136031 0.23287198
##           [,14]           [,15]           [,16]           [,17]           [,18]           [,19]
## [1,] 0.96109490 0.2665643 0.9789867 0.514455324 0.83333529 0.331470181
## [2,] 0.77463883 0.3389773 0.3559557 0.207891406 0.87365888 0.842319412
## [3,] 0.95192073 0.9948084 0.1785805 0.479981142 0.25108263 0.001947403
## [4,] 0.57898882 0.4441860 0.4332070 0.575378937 0.48397853 0.594656484
## [5,] 0.61784114 0.7347578 0.6751732 0.379388699 0.52737748 0.105246671
## [6,] 0.54744643 0.8296356 0.5706687 0.164384989 0.81070533 0.144400635
## [7,] 0.06019295 0.1735763 0.4957477 0.739689475 0.79285468 0.304810407
## [8,] 0.25415581 0.7116077 0.3031471 0.660135350 0.06480588 0.874700640
## [9,] 0.16159758 0.8771908 0.7303648 0.688685818 0.92090390 0.586285102
## [10,] 0.22423717 0.6678228 0.9149406 0.002245452 0.90225225 0.371910805
##           [,20]           [,21]           [,22]           [,23]           [,24]           [,25]           [
,26]
## [1,] 0.2630959 0.67435916 0.3952196 0.75097082 0.6468302 0.7713300 0.1334
7266
## [2,] 0.7163852 0.24017270 0.7072547 0.73775546 0.3481968 0.4735293 0.8820
2993
## [3,] 0.3166685 0.44593129 0.6938385 0.90916991 0.2078693 0.4664425 0.9702
1829
## [4,] 0.1282121 0.84205191 0.5588233 0.87119554 0.9036180 0.6801933 0.1763
6088
## [5,] 0.9424102 0.17690055 0.4450270 0.27658539 0.1226997 0.8024846 0.0673
7822
## [6,] 0.5959184 0.02872359 0.2071864 0.02470915 0.1795962 0.1881697 0.9319
2073
## [7,] 0.7144034 0.71588303 0.4282622 0.90325527 0.9160025 0.5569454 0.4069
5348
## [8,] 0.3777227 0.79493851 0.4877494 0.04770399 0.4337327 0.7861411 0.3431
4489
## [9,] 0.4398495 0.66762321 0.8713473 0.98850750 0.8751995 0.2601608 0.1539
4989
## [10,] 0.2600909 0.60253080 0.6058780 0.95089950 0.7228980 0.5207205 0.7255
9465
##           [,27]           [,28]           [,29]           [,30]           [,31]           [,32]
## [1,] 0.1872646 0.975650118 0.34393896 0.42309635 0.201453952 0.5854718

```

```

## [2,] 0.2987034 0.768762501 0.88380455 0.05305780 0.006938243 0.2620984
## [3,] 0.8493315 0.432738375 0.98393798 0.01131146 0.396972798 0.4806373
## [4,] 0.5201671 0.871805381 0.39300908 0.95162539 0.821127277 0.5560016
## [5,] 0.6933834 0.576157495 0.08314308 0.43356657 0.332933364 0.8317118
## [6,] 0.1365618 0.183240160 0.39698286 0.71725132 0.995696991 0.2441619
## [7,] 0.6130199 0.988014789 0.15634913 0.22147942 0.882792755 0.8929520
## [8,] 0.6920045 0.007509455 0.32791650 0.23253059 0.670064439 0.2830646
## [9,] 0.7549443 0.809874935 0.99688604 0.32783651 0.326531829 0.8661410
## [10,] 0.3107783 0.711562739 0.11460052 0.08748975 0.654078099 0.5180202
##      [,33]      [,34]      [,35]      [,36]      [,37]      [,38]
## [1,] 0.8683965 0.79581750 0.597574657 0.64645582 0.77661709 0.4315616
## [2,] 0.4938217 0.12084998 0.066620457 0.76643697 0.44220544 0.6544982
## [3,] 0.6827512 0.41600275 0.720244689 0.66843907 0.31552162 0.3290291
## [4,] 0.1368306 0.03994399 0.592821714 0.50886593 0.53232743 0.3104066
## [5,] 0.5597118 0.55360100 0.434349792 0.08820682 0.51510235 0.6497889
## [6,] 0.2023848 0.41456579 0.009575784 0.26935019 0.79272952 0.1772961
## [7,] 0.8148666 0.94466514 0.825885465 0.69335727 0.45954267 0.4577791
## [8,] 0.9522772 0.99976880 0.595823101 0.82072215 0.57435298 0.9683401
## [9,] 0.3745331 0.15840994 0.092249951 0.16217713 0.09826067 0.5367046
## [10,] 0.5762985 0.67331514 0.473999475 0.10460893 0.57596510 0.5345864
##      [,39]      [,40]      [,41]      [,42]      [,43]      [,44]
##      [,45]
## [1,] 0.7302433 0.6563568 0.16394740 0.9205710 0.68134534 0.29730646 0.521
72668
## [2,] 0.1339730 0.6254746 0.46871156 0.3182410 0.37564919 0.11886593 0.410
52374
## [3,] 0.4347549 0.9591758 0.05709714 0.9331777 0.80389216 0.27265266 0.296
71606
## [4,] 0.1275520 0.4937339 0.59224021 0.8159113 0.34047157 0.19889780 0.428
46670
## [5,] 0.5553373 0.2125959 0.71195129 0.5540448 0.64646238 0.17117794 0.988
17595
## [6,] 0.2257569 0.2593579 0.53735507 0.8744097 0.29611274 0.45654809 0.066
25641
## [7,] 0.3335739 0.4754801 0.36701810 0.9920376 0.22917434 0.65040667 0.019
53795
## [8,] 0.9489142 0.4990722 0.43449844 0.4831684 0.58950172 0.97872216 0.093
79237
## [9,] 0.4440185 0.3194024 0.25756584 0.5296261 0.03481231 0.05457376 0.381
87428
## [10,] 0.3208681 0.4810205 0.74584948 0.4693412 0.46169640 0.34699519 0.319
43932
##      [,46]      [,47]      [,48]      [,49]      [,50]      [,51]
##      [,52]
## [1,] 0.38513860 0.64701480 0.46052121 0.8849693 0.6975631 0.93094246 0.53
72669
## [2,] 0.91798718 0.14041479 0.66324852 0.4452680 0.4141231 0.89273098 0.71
13007
## [3,] 0.84930330 0.78751111 0.57451062 0.3190306 0.4832890 0.04303228 0.66
95426

```

```

## [4,] 0.37698039 0.30537800 0.06306717 0.4418509 0.6263090 0.76770369 0.33
71905
## [5,] 0.92583808 0.11654640 0.12948066 0.5033553 0.8652125 0.82989968 0.14
39231
## [6,] 0.10645529 0.15652988 0.20023392 0.1643815 0.6791292 0.86946049 0.44
97516
## [7,] 0.67569335 0.10749124 0.81981997 0.1246629 0.6129082 0.10159577 0.81
06412
## [8,] 0.11658247 0.03515553 0.27293105 0.9920721 0.9847015 0.42374776 0.41
05507
## [9,] 0.07814432 0.81604891 0.74194324 0.4310454 0.3572170 0.35888741 0.65
11579
## [10,] 0.13526850 0.75708898 0.88049967 0.3681143 0.3081001 0.96764125 0.34
24795
##           [,53]      [,54]      [,55]      [,56]      [,57]      [,58]
## [1,] 0.44358813 0.06886578 0.8001480 0.35253146 0.090633085 0.63465477
## [2,] 0.76143567 0.26693099 0.8625964 0.32720422 0.855261083 0.77105046
## [3,] 0.30756150 0.55629806 0.5736125 0.94509348 0.737019686 0.92561025
## [4,] 0.13728383 0.24980267 0.3807039 0.54675548 0.928776992 0.35934095
## [5,] 0.50386291 0.20652106 0.6067911 0.41955816 0.845896498 0.95202315
## [6,] 0.45081559 0.81246535 0.4153047 0.21417001 0.501070436 0.48589821
## [7,] 0.66353852 0.99949671 0.1570268 0.07329132 0.139323777 0.45073339
## [8,] 0.19826805 0.25608233 0.0979088 0.21192123 0.282516711 0.41632474
## [9,] 0.02214046 0.51728804 0.5803523 0.69651914 0.002894185 0.03639983
## [10,] 0.03768875 0.52904059 0.2885339 0.27098606 0.475929831 0.23964103
##           [,59]      [,60]      [,61]      [,62]      [,63]      [,64]
## [1,] 0.04812560 0.82553434 0.91361932 0.69152566 0.6542573 0.51728879
## [2,] 0.54298022 0.95624559 0.12563099 0.43354224 0.5281889 0.12084561
## [3,] 0.57933709 0.54902725 0.05746941 0.84608455 0.9537509 0.94035610
## [4,] 0.41470894 0.91842343 0.23072679 0.90483547 0.5566818 0.84954409
## [5,] 0.18915863 0.83117631 0.86909444 0.02400738 0.4831420 0.53669607
## [6,] 0.68969196 0.42028712 0.77019339 0.24378856 0.7363642 0.83091057
## [7,] 0.07190893 0.09123574 0.63778723 0.45553682 0.6211892 0.17539754
## [8,] 0.22212664 0.94022894 0.15852077 0.62055539 0.4161497 0.18254877
## [9,] 0.15070670 0.60696731 0.15902998 0.96398179 0.5459499 0.09248567
## [10,] 0.08689200 0.37506685 0.39386130 0.71241743 0.2132774 0.05974782
##           [,65]      [,66]      [,67]      [,68]      [,69]      [,70]
##           [,71]
## [1,] 0.4117322 0.4150387 0.74739709 0.72224598 0.5057254 0.58688348 0.105
72654
## [2,] 0.7613953 0.0647350 0.04745921 0.42103357 0.8479672 0.16176266 0.292
33094
## [3,] 0.1698589 0.7706132 0.37121141 0.37971343 0.7061687 0.41217282 0.082
12308
## [4,] 0.7943168 0.8394138 0.63400040 0.29194145 0.5736905 0.79911235 0.524
71047
## [5,] 0.6542472 0.2979282 0.57737100 0.07580856 0.6547364 0.66550160 0.194
69438
## [6,] 0.5479384 0.2584349 0.25066453 0.45948217 0.6924495 0.44295607 0.949
20607

```

```

## [7,] 0.4452262 0.6121112 0.95592830 0.23370022 0.1106685 0.58877676 0.248
25637
## [8,] 0.9197675 0.2536316 0.36602018 0.88104449 0.6493505 0.16633549 0.014
39489
## [9,] 0.6785327 0.8839213 0.28253788 0.52555721 0.3612936 0.08849266 0.179
76158
## [10,] 0.4493415 0.4626944 0.13499130 0.56870766 0.1844130 0.40467559 0.342
49265
##          [,72]          [,73]          [,74]          [,75]          [,76]          [,77]          [,
78]
## [1,] 0.7190033 0.82292815 0.20088737 0.4299885 0.6989402 0.1020061 0.7097
781
## [2,] 0.8861488 0.80813775 0.18131271 0.3909707 0.4346354 0.5724918 0.2956
427
## [3,] 0.5152644 0.12325852 0.63472136 0.9071144 0.3466691 0.6316228 0.2686
038
## [4,] 0.3369693 0.06441379 0.65163306 0.6254270 0.8762815 0.3710296 0.3771
037
## [5,] 0.9288070 0.87829979 0.67842036 0.3790910 0.3139787 0.5866750 0.4227
334
## [6,] 0.7232143 0.98578612 0.01240999 0.2159221 0.1138316 0.2924698 0.6242
283
## [7,] 0.3593386 0.44454524 0.40767418 0.8211767 0.7329546 0.2629601 0.7970
047
## [8,] 0.5319121 0.09449713 0.61995079 0.5227283 0.7281067 0.7217499 0.2044
795
## [9,] 0.6735981 0.45307232 0.31589367 0.5019773 0.4071566 0.4574028 0.5196
846
## [10,] 0.7014809 0.86791737 0.95624248 0.4982598 0.1896143 0.5368629 0.3118
005
##          [,79]          [,80]          [,81]          [,82]          [,83]          [,84]
## [1,] 0.01426686 0.02089614 0.3492654 0.795370573 0.9125466 0.93348882
## [2,] 0.81416174 0.77991382 0.8752830 0.186887145 0.6351638 0.53237041
## [3,] 0.35856752 0.01900692 0.7414805 0.106054979 0.8263770 0.87806085
## [4,] 0.07026246 0.39942080 0.4878626 0.798415765 0.8710860 0.77240909
## [5,] 0.68953521 0.40175120 0.1830313 0.657256993 0.6366606 0.95174454
## [6,] 0.89556072 0.11858747 0.3344057 0.719474653 0.2699288 0.04575926
## [7,] 0.86222067 0.51877894 0.1867456 0.002331312 0.9204148 0.20968084
## [8,] 0.18097587 0.63080907 0.8438168 0.886152730 0.2505960 0.31148357
## [9,] 0.12327542 0.25127962 0.3770296 0.672755881 0.4232704 0.07796950
## [10,] 0.75015346 0.76795550 0.5125887 0.485776970 0.9536752 0.52986078
##          [,85]          [,86]          [,87]          [,88]          [,89]          [,90]
## [1,] 0.58452995 0.23835680 0.74447875 0.85379550 0.9736764 0.23444097
## [2,] 0.62096139 0.05332176 0.04817440 0.43763973 0.4597008 0.07465879
## [3,] 0.05201525 0.76799408 0.54543274 0.33180913 0.2848437 0.34506978
## [4,] 0.41149495 0.56262376 0.05169838 0.07082424 0.9297528 0.03214265
## [5,] 0.93217612 0.52324673 0.19216032 0.09206398 0.6297293 0.58038085
## [6,] 0.37646909 0.65108195 0.03274631 0.97249158 0.1197581 0.40596923
## [7,] 0.81385159 0.16398310 0.14900745 0.26385000 0.4945350 0.81881146
## [8,] 0.17779874 0.70992820 0.53919372 0.52443367 0.3497906 0.64771406

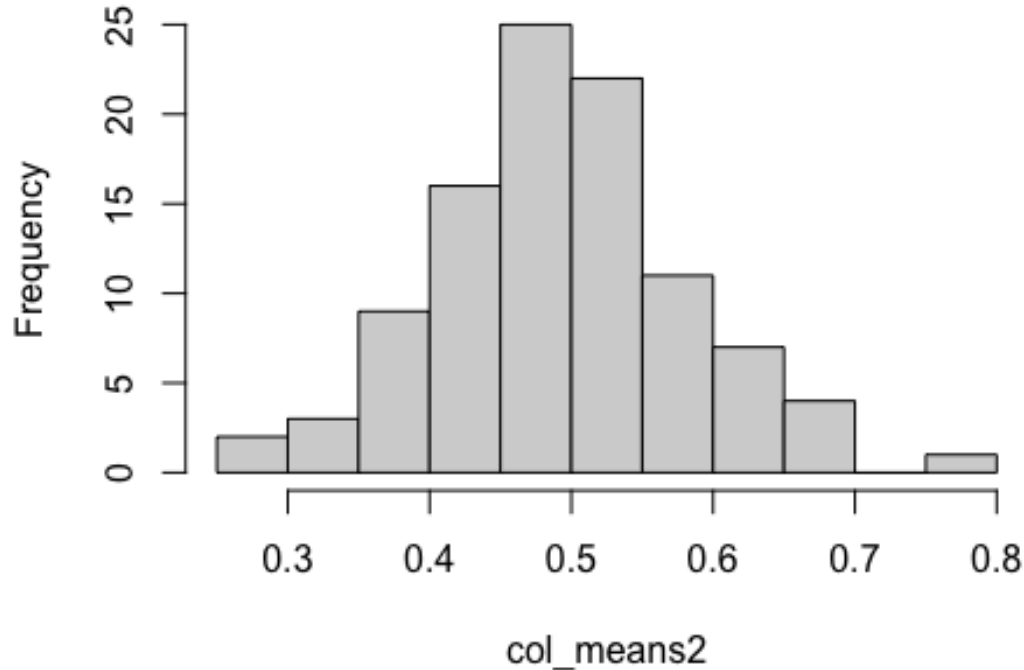
```

```
## [9,] 0.13230181 0.75281664 0.86012273 0.40404181 0.3557529 0.24047302
## [10,] 0.42322901 0.15289027 0.16009662 0.97199935 0.3233004 0.59214289
##      [,91]      [,92]      [,93]      [,94]      [,95]      [,96]      [,9
7]
## [1,] 0.3914620 0.5961938 0.4525801 0.91628487 0.7246681 0.7680214 0.95660
09
## [2,] 0.8520751 0.4709524 0.9491827 0.13996697 0.4915882 0.2779077 0.24763
11
## [3,] 0.9678615 0.1848064 0.5979029 0.24798466 0.8727499 0.6478184 0.78003
46
## [4,] 0.5295068 0.2734480 0.2765825 0.21164072 0.4851234 0.5619787 0.58435
45
## [5,] 0.1363955 0.2888221 0.4639225 0.95354080 0.9841274 0.7050281 0.87131
66
## [6,] 0.6819981 0.3489549 0.0249804 0.04365961 0.1141480 0.5555732 0.65422
47
## [7,] 0.2844347 0.3577802 0.7336735 0.39065351 0.4335011 0.4746849 0.41662
50
## [8,] 0.8003130 0.4445308 0.7782475 0.51845128 0.2828192 0.8016486 0.67007
46
## [9,] 0.6753571 0.6053286 0.6753670 0.48724419 0.4443511 0.1769967 0.25101
50
## [10,] 0.1224540 0.8476749 0.6854628 0.69858106 0.4700080 0.1716566 0.16119
22
##      [,98]      [,99]      [,100]
## [1,] 0.42025806 0.9238177 0.15652166
## [2,] 0.69836382 0.1963816 0.09810779
## [3,] 0.60960630 0.5575990 0.22024000
## [4,] 0.85403597 0.9941970 0.20795504
## [5,] 0.08952925 0.4080194 0.82124998
## [6,] 0.75635949 0.1525223 0.97541197
## [7,] 0.22337009 0.1759606 0.19000486
## [8,] 0.89586624 0.2254886 0.17670986
## [9,] 0.72429069 0.8479800 0.21394136
## [10,] 0.11922461 0.6003535 0.82437007
```

calculate the column means and plot a histogram

```
col_means2 <- colMeans(mat2)
hist(col_means2)
```


Histogram of col_means2



create another matrix with 1000 columns and 10 rows

```
mat3 <- matrix(runif(10000), nrow = 10, ncol = 1000)
print(mat3)
```

```
##           [,1]      [,2]      [,3]      [,4]      [,5]      [,6]
## [1,] 0.10156079 0.79968129 0.30280021 0.89655046 0.793691647 0.8035050
## [2,] 0.04489294 0.70670503 0.34232619 0.96352405 0.078825275 0.6158124
## [3,] 0.45491655 0.47260635 0.13582990 0.97869220 0.334778245 0.1896576
## [4,] 0.34091175 0.85125334 0.05970235 0.80933179 0.783350040 0.3412621
## [5,] 0.59291285 0.50371671 0.20370346 0.45555812 0.845704398 0.3721758
## [6,] 0.24021457 0.79446214 0.69082311 0.07785792 0.074140599 0.3940628
## [7,] 0.91462417 0.04938493 0.50111504 0.24637282 0.007483684 0.9034710
## [8,] 0.57604347 0.35395315 0.89401585 0.24451436 0.685910305 0.9625328
## [9,] 0.11189221 0.81913190 0.09776951 0.38072212 0.348031046 0.6691180
## [10,] 0.55312108 0.44949393 0.94398595 0.22760555 0.272375512 0.6626604
##           [,7]      [,8]      [,9]     [,10]     [,11]     [,12]
## [,13]
## [1,] 0.97730964 0.6855926 0.42371990 0.7402915 0.29293874 0.2066974 0.897
79062
## [2,] 0.04620366 0.1430697 0.75453891 0.6098047 0.61835883 0.2621545 0.688
91916
## [3,] 0.31913706 0.9440593 0.64390567 0.4109779 0.13393124 0.9142239 0.973
```

```

48071
## [4,] 0.67026470 0.6351494 0.08173876 0.9106263 0.55696721 0.9722272 0.848
29456
## [5,] 0.24519331 0.3992745 0.24004204 0.2115882 0.03268521 0.2127992 0.060
61005
## [6,] 0.67505972 0.3667505 0.06021848 0.5750363 0.94412762 0.6592554 0.424
13635
## [7,] 0.53831873 0.6003387 0.46643311 0.8987145 0.03633879 0.9156305 0.514
23272
## [8,] 0.72873497 0.4277766 0.59085864 0.5652632 0.87322017 0.9482562 0.604
75812
## [9,] 0.44837199 0.4261374 0.51259952 0.3682577 0.27873968 0.4573371 0.648
19758
## [10,] 0.54711117 0.2635389 0.07645580 0.4397074 0.55375573 0.1978588 0.650
31293
##           [,14]      [,15]      [,16]      [,17]      [,18]      [,19]
[,20]
## [1,] 0.02298611 0.2684328 0.1828084 0.69123440 0.65254197 0.4094963 0.371
17792
## [2,] 0.19953243 0.7573018 0.3181489 0.93893966 0.13113588 0.3728470 0.114
84146
## [3,] 0.23796948 0.4359194 0.6409009 0.09737046 0.97577449 0.7079715 0.446
43036
## [4,] 0.73991867 0.6993183 0.6876764 0.84597485 0.65101579 0.6050330 0.474
66335
## [5,] 0.59861270 0.6696855 0.7023075 0.57165366 0.61502636 0.7990193 0.765
81238
## [6,] 0.37157292 0.1479933 0.3544830 0.10729864 0.11695099 0.5200085 0.510
17891
## [7,] 0.41834293 0.1384505 0.9538098 0.21942977 0.08275742 0.7648788 0.446
69904
## [8,] 0.93224272 0.4835332 0.9324695 0.10565577 0.30159542 0.1574781 0.156
52552
## [9,] 0.80553699 0.8610669 0.4845795 0.22448377 0.75933280 0.3015962 0.039
14219
## [10,] 0.03648900 0.2929889 0.6081847 0.27993500 0.65670642 0.1100864 0.570
46185
##           [,21]      [,22]      [,23]      [,24]      [,25]      [,26]
## [1,] 0.16311893 0.3010244 0.4114239 0.48104674 0.55366287 0.67514508
## [2,] 0.90029484 0.1543768 0.3577854 0.76582469 0.29782322 0.59350064
## [3,] 0.46715854 0.8609780 0.4056074 0.48945305 0.74161447 0.33256048
## [4,] 0.35751264 0.5419226 0.8691770 0.55183850 0.90147529 0.99059253
## [5,] 0.08321764 0.6311294 0.6698205 0.52733029 0.32552671 0.36350440
## [6,] 0.09845548 0.1333917 0.2745310 0.69942029 0.95005349 0.28753097
## [7,] 0.27108632 0.6764249 0.6107062 0.90330996 0.72653807 0.06872499
## [8,] 0.55924022 0.9160353 0.1057959 0.43758742 0.06104605 0.82489711
## [9,] 0.94762900 0.6861723 0.9397011 0.24455223 0.51604778 0.28812272
## [10,] 0.69497328 0.5967555 0.1054001 0.08725962 0.80851567 0.22989336
##           [,27]      [,28]      [,29]      [,30]      [,31]      [,32]
## [1,] 0.81323312 0.51623579 0.21421521 0.2310049 0.81890405 0.54100234

```

```

## [2,] 0.20181823 0.74353457 0.43895903 0.3051957 0.90365710 0.16870103
## [3,] 0.96708532 0.65710145 0.17854668 0.2637347 0.65944404 0.90190107
## [4,] 0.33216530 0.51179433 0.21491795 0.6807116 0.51109838 0.26699383
## [5,] 0.32937813 0.89383515 0.31346588 0.7126383 0.09500005 0.07193952
## [6,] 0.98112424 0.72533277 0.29210071 0.3650182 0.05805381 0.51350914
## [7,] 0.04063330 0.29199644 0.08158373 0.4145835 0.58530068 0.72981669
## [8,] 0.80974784 0.81701384 0.28581091 0.2008666 0.05133736 0.29530782
## [9,] 0.07808901 0.54539378 0.46520883 0.4794701 0.41901732 0.05817527
## [10,] 0.61344714 0.05970047 0.72746518 0.6605301 0.06687291 0.26027826
##      [,33]      [,34]      [,35]      [,36]      [,37]      [,38]
## [1,] 0.4769234 0.4587560827 0.90548656 0.103219050 0.2775053 0.64541335
## [2,] 0.6230530 0.3590674154 0.15151862 0.478077400 0.6944508 0.33042207
## [3,] 0.5238068 0.9960377642 0.64851351 0.005306835 0.8774250 0.03475272
## [4,] 0.2817463 0.2247124466 0.17897257 0.356742715 0.3557721 0.35138513
## [5,] 0.1753180 0.4235258431 0.30938505 0.759835219 0.9558852 0.14527446
## [6,] 0.3278584 0.6834143782 0.31136349 0.184455398 0.3504488 0.10490448
## [7,] 0.1031842 0.1773697974 0.79787601 0.924145037 0.4175405 0.93215533
## [8,] 0.1522953 0.2485398047 0.30133251 0.553661297 0.5878824 0.02563348
## [9,] 0.2911225 0.0008431601 0.01113271 0.862936141 0.5661148 0.80143310
## [10,] 0.8434905 0.2854737239 0.36452280 0.714832564 0.3662143 0.42819071
##      [,39]      [,40]      [,41]      [,42]      [,43]      [,44]
##      [,45]
## [1,] 0.93355912 0.3613833 0.8192571 0.57668170 0.70679157 0.4078256 0.821
91978
## [2,] 0.36574244 0.9136172 0.6640807 0.90833434 0.06775625 0.5458791 0.764
78860
## [3,] 0.80586551 0.7707853 0.2152290 0.50943763 0.82982716 0.3000023 0.334
93205
## [4,] 0.07878133 0.9010250 0.9128430 0.98305361 0.74324831 0.3192600 0.406
16073
## [5,] 0.53668912 0.9566556 0.7133869 0.28229924 0.88505776 0.1220029 0.143
81231
## [6,] 0.26681707 0.3333723 0.7602078 0.91260155 0.64400771 0.3434858 0.607
80186
## [7,] 0.11262143 0.2822075 0.4796987 0.71271520 0.43522069 0.4464483 0.089
02879
## [8,] 0.05515026 0.3664779 0.2532570 0.59163356 0.05538823 0.4645516 0.018
56955
## [9,] 0.37648313 0.7778754 0.4585168 0.79169681 0.46778141 0.1363092 0.568
44441
## [10,] 0.72243336 0.3589850 0.4011075 0.03740552 0.64566505 0.6744643 0.872
81717
##      [,46]      [,47]      [,48]      [,49]      [,50]      [,51]
## [1,] 0.7935106 0.06807246 0.3318787 0.781506036 0.48535147 0.86599719
## [2,] 0.6403142 0.79620798 0.1320366 0.615030552 0.81010405 0.79454532
## [3,] 0.9441865 0.71261589 0.4576835 0.564594868 0.46753528 0.38308506
## [4,] 0.5536721 0.02193411 0.8876226 0.133203792 0.14144055 0.04313515
## [5,] 0.3110416 0.17125220 0.6858035 0.870151915 0.05386238 0.38769054
## [6,] 0.9614670 0.70722397 0.5416757 0.643038405 0.52075120 0.99644612
## [7,] 0.6020282 0.52785001 0.4927235 0.445141108 0.44691919 0.40631989

```

```

## [8,] 0.1709633 0.50019854 0.8338479 0.775315528 0.31613000 0.74278600
## [9,] 0.5944586 0.66648212 0.1183257 0.871890818 0.21255005 0.51070350
## [10,] 0.3273373 0.29737240 0.8119731 0.007571928 0.33349692 0.32829866
##      [,52]      [,53]      [,54]      [,55]      [,56]      [,57]      [,5
8]
## [1,] 0.4638037 0.6167619 0.6444238 0.42589497 0.6583360 0.2480533 0.67686
52
## [2,] 0.4761736 0.4744820 0.9391104 0.39236495 0.6845155 0.9262438 0.82694
99
## [3,] 0.4937104 0.2827855 0.1743744 0.33742117 0.6044868 0.3455860 0.41314
81
## [4,] 0.8966490 0.6631656 0.6109761 0.23804612 0.8728922 0.1302792 0.15606
23
## [5,] 0.8704330 0.1583249 0.3462612 0.24483550 0.1417496 0.4984102 0.80873
96
## [6,] 0.3316627 0.3512247 0.1275875 0.48565658 0.1746605 0.9728482 0.88076
48
## [7,] 0.7500843 0.8873562 0.4467911 0.47760795 0.5069196 0.8658846 0.62058
49
## [8,] 0.1843490 0.1545264 0.3195387 0.01828528 0.1575233 0.2785578 0.86387
39
## [9,] 0.2539115 0.9517928 0.5231834 0.44322436 0.9997362 0.4941368 0.20184
91
## [10,] 0.7609260 0.7612335 0.1901106 0.20991384 0.3008763 0.7868688 0.74169
42
##      [,59]      [,60]      [,61]      [,62]      [,63]      [,64]
## [1,] 0.95371498 0.10361457 0.8294709 0.2201710 0.51814285 0.41974486
## [2,] 0.37360309 0.04364968 0.2543386 0.6679346 0.82239472 0.22222565
## [3,] 0.02345699 0.46536417 0.2230102 0.8883924 0.58689743 0.20169865
## [4,] 0.75447109 0.02558765 0.9106652 0.1281357 0.17726535 0.08345466
## [5,] 0.94911463 0.93846634 0.5137404 0.7787936 0.37613684 0.27727765
## [6,] 0.74356838 0.17322061 0.2578095 0.1296991 0.95351077 0.52366766
## [7,] 0.24465786 0.43671654 0.9990363 0.1471806 0.47877752 0.30259090
## [8,] 0.75194600 0.13483364 0.4587888 0.9869386 0.43480018 0.96353829
## [9,] 0.86108058 0.83966262 0.3566901 0.2650462 0.01855023 0.51975203
## [10,] 0.21907668 0.52935484 0.3765033 0.2594007 0.63412794 0.30112705
##      [,65]      [,66]      [,67]      [,68]      [,69]      [,70]
## [1,] 0.89884767 0.8466142 0.09095016 0.98325831 0.189386075 0.3454800
## [2,] 0.30016237 0.4905176 0.67878109 0.02914005 0.821110737 0.6713274
## [3,] 0.37374085 0.1321680 0.46845946 0.16202242 0.728785711 0.4376178
## [4,] 0.15203480 0.5324104 0.12258711 0.20728298 0.220351940 0.8265984
## [5,] 0.22531908 0.6568944 0.68514454 0.31315746 0.006676843 0.8014859
## [6,] 0.61018339 0.6184595 0.50709132 0.03876047 0.966867635 0.3095302
## [7,] 0.80527032 0.1150491 0.81496401 0.32949010 0.241335429 0.1511967
## [8,] 0.80371020 0.2968978 0.10602066 0.58961647 0.071386484 0.6273350
## [9,] 0.67465949 0.1902922 0.94378069 0.17082750 0.013618791 0.9215544
## [10,] 0.08039433 0.9803112 0.25001088 0.25091329 0.725247247 0.2283693
##      [,71]      [,72]      [,73]      [,74]      [,75]      [,76]
## [1,] 0.1316328 0.6616348 0.01472488 0.9341626 0.52734626 0.003844947 0.61

```

75925

[2,] 0.4653104 0.6100120 0.93341511 0.5479300 0.85866191 0.765712708 0.4557311

[3,] 0.5845750 0.9821014 0.72819102 0.7638327 0.26659459 0.669706674 0.6725702

[4,] 0.6728232 0.1650193 0.77577821 0.6252315 0.12839262 0.103127067 0.1576639

[5,] 0.3651959 0.8683808 0.41084707 0.8538103 0.88652700 0.454594284 0.1748206

[6,] 0.3722022 0.9867991 0.64351741 0.6182595 0.77674122 0.045786259 0.5863987

[7,] 0.2497307 0.2031547 0.57848517 0.9342500 0.61378085 0.661472438 0.5305638

[8,] 0.3221934 0.8294581 0.57514909 0.7418560 0.07571627 0.790014962 0.4647239

[9,] 0.7610959 0.3269060 0.47225795 0.7297793 0.51713040 0.144011344 0.5365144

[10,] 0.5695126 0.1094099 0.14854064 0.2090283 0.13256136 0.553011394 0.8661585

[,78] [,79] [,80] [,81] [,82] [,83]

[1,] 0.571393562 0.27169321 0.1808085 0.81698649 0.6320647 0.38871949

[2,] 0.955400291 0.66516599 0.5565934 0.89801695 0.4658935 0.46010570

[3,] 0.005447305 0.32130541 0.6929259 0.03232277 0.5492288 0.38947071

[4,] 0.783370983 0.33059999 0.6741037 0.47714784 0.4263059 0.49002308

[5,] 0.375195556 0.21362658 0.7715002 0.42566004 0.8750129 0.93521635

[6,] 0.609981678 0.08424854 0.6820963 0.70253285 0.8870451 0.06651351

[7,] 0.697749478 0.89559674 0.4193148 0.24128338 0.4768209 0.78020943

[8,] 0.731552187 0.49855118 0.7506323 0.90153536 0.7264480 0.99071867

[9,] 0.024235216 0.25672032 0.3808432 0.21181074 0.8980296 0.01952307

[10,] 0.936140273 0.68221849 0.6785270 0.72582034 0.8750078 0.51554715

[,84] [,85] [,86] [,87] [,88] [,89]

[1,] 0.05612455 0.93535000 0.658612310 0.71630450 0.9788826 0.30079495

[2,] 0.73939046 0.26209873 0.565017798 0.25103546 0.7676469 0.57743318

[3,] 0.50518876 0.06995274 0.813893751 0.32741292 0.3068359 0.75273548

[4,] 0.06122089 0.47521033 0.655917665 0.33518643 0.1704147 0.94475370

[5,] 0.70636900 0.52665661 0.072299824 0.32743771 0.1095694 0.60701717

[6,] 0.06055305 0.21508672 0.599963907 0.79675156 0.9909721 0.28493703

[7,] 0.47664754 0.49499801 0.004109929 0.14444166 0.2086434 0.03401774

[8,] 0.46932159 0.81373016 0.973318886 0.29703535 0.1186536 0.29694343

[9,] 0.47367221 0.20771057 0.913542704 0.48416217 0.9872917 0.69371983

[10,] 0.38182314 0.16636725 0.425220684 0.06075092 0.9946605 0.85252087

[,90] [,91] [,92] [,93] [,94] [,95]

[1,] 0.8890951 0.99247588 0.63783105 0.06517143 0.61713076 0.5951345

[2,] 0.4053873 0.19200137 0.73705034 0.08136156 0.31367357 0.3776634

[3,] 0.8757945 0.68743266 0.31231538 0.42587082 0.97326070 0.3622447

[4,] 0.4305975 0.86855628 0.39599951 0.28041190 0.86389929 0.6076846

[5,] 0.9966011 0.45463367 0.09455434 0.50138306 0.06102049 0.3320604

[6,] 0.3803305 0.09919141 0.68480260 0.16051936 0.09638476 0.2908119

[7,] 0.2859099 0.59007572 0.21619212 0.87435265 0.65946041 0.5131602

[8,] 0.4786864 0.33519167 0.16632854 0.91274220 0.19491062 0.8324182

```

## [9,] 0.5639517 0.06785678 0.10863166 0.76149178 0.29334461 0.5410767
## [10,] 0.8075840 0.28389296 0.25548094 0.23209287 0.96275835 0.3547797
##      [,96]      [,97]      [,98]      [,99]      [,100]      [,101]
## [1,] 0.52384559 0.34090848 0.5544399 0.41523927 0.60452831 0.42211422
## [2,] 0.05866178 0.04196882 0.5963716 0.23085967 0.58637273 0.57765397
## [3,] 0.57752982 0.41763633 0.3029466 0.14546599 0.16772591 0.61257004
## [4,] 0.41252157 0.66499468 0.6310459 0.17037624 0.22163692 0.22114774
## [5,] 0.67943735 0.02313183 0.7648455 0.06688791 0.17250191 0.16209908
## [6,] 0.92385418 0.65444466 0.7992997 0.65840682 0.38833072 0.21887193
## [7,] 0.96447830 0.86149055 0.6752518 0.76487078 0.03320726 0.43161567
## [8,] 0.79669024 0.04278903 0.7032480 0.75394588 0.98257352 0.09741250
## [9,] 0.68413178 0.33750827 0.4516904 0.61363025 0.61042613 0.79201142
## [10,] 0.01616851 0.61810542 0.2478304 0.69020218 0.83964394 0.03041055
##      [,102]      [,103]      [,104]      [,105]      [,106]      [,107]      [,
108]
## [1,] 0.3064736 0.31614981 0.54751427 0.8360141 0.8287901 0.74655142 0.267
5772
## [2,] 0.5183043 0.95168150 0.64267514 0.6517397 0.4537177 0.34498587 0.893
8573
## [3,] 0.3986978 0.89421901 0.72439617 0.3925599 0.3820337 0.70424420 0.853
3361
## [4,] 0.0458073 0.06968551 0.69082209 0.6779541 0.7875612 0.53124294 0.828
6497
## [5,] 0.5879251 0.94321561 0.19491866 0.6701344 0.6804868 0.09480751 0.656
7850
## [6,] 0.7312148 0.31282993 0.13798497 0.1355937 0.3300752 0.91620531 0.928
7641
## [7,] 0.4873547 0.37623144 0.92917207 0.7564043 0.3413950 0.73694283 0.158
6000
## [8,] 0.4931982 0.62166503 0.07915104 0.5818807 0.4634570 0.93627699 0.927
9049
## [9,] 0.8442288 0.10605944 0.52766921 0.3956767 0.3485232 0.11729774 0.725
6740
## [10,] 0.5776665 0.05486836 0.59864389 0.9500120 0.8593876 0.37725718 0.465
2673
##      [,109]      [,110]      [,111]      [,112]      [,113]      [,114]
## [1,] 0.07319428 0.2286385 0.31867759 0.01489799 0.375566501 0.3159497
## [2,] 0.67149122 0.5318407 0.29852794 0.10792801 0.194507018 0.6735432
## [3,] 0.41528438 0.6741574 0.30673941 0.12957656 0.052906832 0.8855592
## [4,] 0.18029885 0.3764057 0.48908305 0.23665156 0.386286441 0.3362920
## [5,] 0.34939198 0.1299121 0.12555261 0.75101365 0.002208187 0.8376701
## [6,] 0.92579068 0.7419303 0.07225743 0.14230197 0.003601346 0.3659451
## [7,] 0.53448675 0.5536759 0.17904294 0.88675029 0.308688512 0.4519235
## [8,] 0.24533912 0.5378678 0.29268985 0.88639777 0.880439038 0.4403886
## [9,] 0.62593764 0.8478576 0.63026247 0.11821515 0.544731562 0.7231889
## [10,] 0.14692702 0.4895834 0.11549325 0.49612356 0.716431044 0.2255286
##      [,115]      [,116]      [,117]      [,118]      [,119]      [,120]
## [1,] 0.1123782 0.57862874 0.51442705 0.4111981 0.3985861 0.660144180
## [2,] 0.3142145 0.04128519 0.27388017 0.8831841 0.7078891 0.422485422
## [3,] 0.8457725 0.75433039 0.79838775 0.8476102 0.4819083 0.153729096

```

```

## [4,] 0.6391663 0.16499544 0.08495869 0.5504094 0.5588604 0.555644776
## [5,] 0.3540693 0.63544894 0.27134296 0.1921640 0.1471238 0.224722389
## [6,] 0.8962202 0.25039466 0.81210246 0.3846244 0.4914785 0.232528585
## [7,] 0.3319944 0.62501851 0.53082229 0.8559307 0.5373291 0.742731164
## [8,] 0.9378135 0.72707710 0.05531741 0.6630023 0.6527566 0.003890841
## [9,] 0.9110071 0.30762838 0.86491973 0.3738274 0.6953615 0.795364015
## [10,] 0.4969169 0.62214625 0.41984453 0.4390434 0.1885167 0.567684121
##      [,121]      [,122]      [,123]      [,124]      [,125]      [,126]      [,
127]
## [1,] 0.83469187 0.25166354 0.7678887 0.1137573 0.86987745 0.6130695 0.910
7044
## [2,] 0.03411084 0.30036990 0.7368912 0.6638816 0.66158844 0.4756533 0.449
8375
## [3,] 0.41213223 0.47161594 0.1779449 0.1630401 0.91840521 0.1742835 0.158
2700
## [4,] 0.45464313 0.24072730 0.5702669 0.6165785 0.62440100 0.4701293 0.586
3871
## [5,] 0.01762437 0.17215100 0.8909078 0.1706793 0.40654397 0.5010564 0.772
6564
## [6,] 0.46185219 0.98899633 0.6433662 0.4151383 0.08369023 0.1484614 0.923
0869
## [7,] 0.90682391 0.66235784 0.7165889 0.6583562 0.95223496 0.9602513 0.627
1219
## [8,] 0.21204953 0.32411287 0.5812192 0.4043133 0.57489070 0.6137202 0.351
7042
## [9,] 0.99929348 0.03632479 0.5933916 0.7425331 0.94898375 0.9307987 0.806
7854
## [10,] 0.33899539 0.02026820 0.5810688 0.8001798 0.50063538 0.2344233 0.554
9053
##      [,128]      [,129]      [,130]      [,131]      [,132]      [,133]
## [1,] 0.227772014 0.3074872 0.96612450 0.93488544 0.7907385 0.142267199
## [2,] 0.301997660 0.2201166 0.67646356 0.45271625 0.2445673 0.838839846
## [3,] 0.134936781 0.6850143 0.81105287 0.43985640 0.8339875 0.186442773
## [4,] 0.155165818 0.2406249 0.37285698 0.27001484 0.6187046 0.007986463
## [5,] 0.498830264 0.9667107 0.67164095 0.05035661 0.6722649 0.846688762
## [6,] 0.510536544 0.5994029 0.13846477 0.63307962 0.7996011 0.740503183
## [7,] 0.427243020 0.3532208 0.14867792 0.13781065 0.9478839 0.734135319
## [8,] 0.086731381 0.2256025 0.35213626 0.50554257 0.6022137 0.894453156
## [9,] 0.610269685 0.3162181 0.16042815 0.04088686 0.1674052 0.162433056
## [10,] 0.009923314 0.8148264 0.04391219 0.16527664 0.1846064 0.427529088
##      [,134]      [,135]      [,136]      [,137]      [,138]      [,139]      [,
140]
## [1,] 0.6650820 0.53907251 0.16198728 0.4505810 0.3717437 0.02793309 0.669
1185
## [2,] 0.1227726 0.42344364 0.24394161 0.2280303 0.9002607 0.29053881 0.425
5107
## [3,] 0.3683403 0.50982029 0.48585571 0.5669291 0.7236984 0.37299756 0.977
1351
## [4,] 0.7098579 0.61748306 0.87942529 0.1974613 0.4232049 0.48770784 0.283
5089

```

```

## [5,] 0.1198629 0.70241807 0.74587219 0.7790827 0.6225802 0.75510293 0.753
4804
## [6,] 0.3540374 0.96937551 0.02208238 0.1486491 0.4081825 0.85818960 0.691
4807
## [7,] 0.9276871 0.59226777 0.34979062 0.2202312 0.6603121 0.14923000 0.523
2435
## [8,] 0.4707299 0.53947717 0.40049991 0.6282929 0.7747844 0.23941059 0.333
0090
## [9,] 0.3031260 0.36561130 0.67003254 0.2276191 0.1499285 0.48064867 0.375
9178
## [10,] 0.2964297 0.01391656 0.91200814 0.9747327 0.9307211 0.80800064 0.599
7882
##          [,141]      [,142]      [,143]      [,144]      [,145]      [,146]      [
,147]
## [1,] 0.4605460 0.56458649 0.2693157 0.37901495 0.99554067 0.6312846 0.807
14221
## [2,] 0.5023240 0.61803913 0.7821616 0.28541918 0.84745059 0.9258991 0.068
66272
## [3,] 0.9561194 0.61457392 0.9897410 0.49013515 0.07106916 0.4703431 0.791
37495
## [4,] 0.9367620 0.03703705 0.3049400 0.62317101 0.11660615 0.3412102 0.103
09080
## [5,] 0.5733940 0.80958619 0.5706129 0.11048959 0.38273949 0.6310951 0.653
62635
## [6,] 0.4791811 0.12146922 0.4410708 0.58260832 0.54743127 0.8532339 0.556
49531
## [7,] 0.8620765 0.08601803 0.1220603 0.14353100 0.91039224 0.8950896 0.329
26679
## [8,] 0.8319457 0.60646924 0.1378314 0.83256792 0.84268484 0.9240050 0.122
94309
## [9,] 0.2619849 0.94610311 0.6972135 0.64126069 0.69923028 0.2730069 0.617
22433
## [10,] 0.9170360 0.75426226 0.9311240 0.06707797 0.92020338 0.4151450 0.234
67739
##          [,148]      [,149]      [,150]      [,151]      [,152]      [,153]
## [1,] 0.72257867 0.26398342 0.6611259065 0.9184306 0.3568444 0.26912585
## [2,] 0.01742339 0.06957393 0.6240499527 0.2045233 0.7698480 0.75945025
## [3,] 0.02065380 0.60037317 0.5719757776 0.3470986 0.3399190 0.20299393
## [4,] 0.14561224 0.31314376 0.8082595316 0.7238380 0.3082056 0.23737737
## [5,] 0.15281620 0.01576195 0.0001724965 0.5579495 0.8471154 0.98705940
## [6,] 0.22682846 0.75012188 0.6105769826 0.6449241 0.7957609 0.12267038
## [7,] 0.79263530 0.38884888 0.5895154879 0.4212323 0.6659484 0.03632168
## [8,] 0.80736705 0.23547003 0.6526801584 0.9061903 0.7656835 0.16130317
## [9,] 0.23280008 0.93469418 0.6618207551 0.5237471 0.5545818 0.10193104
## [10,] 0.32460193 0.61467030 0.1590476406 0.5888257 0.1642105 0.74838001
##          [,154]      [,155]      [,156]      [,157]      [,158]      [,159]
## [1,] 0.5497576 0.6371207 0.4581522 0.04345267 0.957449239 0.85185002
## [2,] 0.8493528 0.1168060 0.7849481 0.91701514 0.801152006 0.35894098
## [3,] 0.8662823 0.1103496 0.9446361 0.25793198 0.999662833 0.28873352
## [4,] 0.5194168 0.8495370 0.3149656 0.98170599 0.950880962 0.65681516

```



```

## [5,] 0.8100130 0.5917970 0.3813926 0.76886127 0.003604003 0.56647458
## [6,] 0.1940605 0.7080923 0.8077215 0.30908754 0.001705688 0.21762973
## [7,] 0.7349313 0.7385895 0.4923891 0.99630935 0.200683880 0.05201002
## [8,] 0.8817971 0.5619283 0.8275988 0.76711391 0.177689748 0.40003283
## [9,] 0.6318572 0.8693507 0.6167136 0.58705355 0.459044560 0.52794156
## [10,] 0.1910849 0.2852222 0.7737310 0.85886763 0.746296069 0.75117305
##      [,160]      [,161]      [,162]      [,163]      [,164]      [,165]
## [1,] 0.59158438 0.431865438 0.9728967 0.02270829 0.1269946 0.89211948
## [2,] 0.03925155 0.007399294 0.8492763 0.29408041 0.2633005 0.18981308
## [3,] 0.09530173 0.297448496 0.1795290 0.43491313 0.9876472 0.26975886
## [4,] 0.53395180 0.748939313 0.5343271 0.80014665 0.4596665 0.08890903
## [5,] 0.23993173 0.057872030 0.8122334 0.22968922 0.7339976 0.91305719
## [6,] 0.47807382 0.757755460 0.8377187 0.54672993 0.6624521 0.84355475
## [7,] 0.66651426 0.662832948 0.5536579 0.65164685 0.9124582 0.17831281
## [8,] 0.37581267 0.344318763 0.1206550 0.98842468 0.8172698 0.43709688
## [9,] 0.34675812 0.569243087 0.3411959 0.56164586 0.5269870 0.51963831
## [10,] 0.84230313 0.739297677 0.2743201 0.40182482 0.2925336 0.17027570
##      [,166]      [,167]      [,168]      [,169]      [,170]      [,171]
## [1,] 0.4994275 0.6618494 0.3782989 0.84917343 0.875655062 0.93857078
## [2,] 0.5440821 0.9491389 0.4803150 0.37759162 0.004630095 0.79167778
## [3,] 0.4136881 0.7217227 0.9391102 0.44473913 0.253157775 0.81970546
## [4,] 0.9632185 0.3471358 0.9431971 0.88357256 0.983660441 0.50762168
## [5,] 0.7556317 0.8825192 0.1829649 0.89152708 0.947448178 0.15951026
## [6,] 0.3707470 0.9570121 0.4163936 0.18366581 0.220189201 0.01363363
## [7,] 0.4477446 0.5469394 0.6427836 0.72702100 0.935504639 0.10382998
## [8,] 0.6259034 0.4888924 0.3527389 0.24248828 0.134665592 0.46151291
## [9,] 0.7474527 0.5010762 0.6174005 0.58749411 0.441853522 0.49854257
## [10,] 0.5138067 0.8842988 0.1487786 0.06188215 0.933576507 0.79391061
##      [,172]      [,173]      [,174]      [,175]      [,176]      [,177]
## [1,] 0.48966529 0.7016178 0.7855939 0.050447052 0.9854982 0.03549074
## [2,] 0.89434251 0.7882952 0.8834217 0.728650065 0.3837984 0.96501185
## [3,] 0.95555262 0.9372922 0.7368441 0.182414302 0.5838595 0.59793953
## [4,] 0.42200032 0.7925080 0.1266908 0.651210981 0.1593681 0.37509211
## [5,] 0.10574985 0.1105528 0.6829225 0.005500113 0.8869422 0.52196270
## [6,] 0.05746682 0.3067193 0.2424450 0.138630183 0.1165756 0.06231971
## [7,] 0.26844499 0.2709964 0.4136599 0.548581970 0.7739473 0.04281699
## [8,] 0.68435528 0.8333012 0.7633490 0.841058819 0.2530876 0.08617212
## [9,] 0.31634536 0.5625607 0.6043021 0.248652565 0.2858903 0.14363955
## [10,] 0.43383881 0.3996546 0.8183386 0.126946334 0.4119126 0.19915180
##      [,178]      [,179]      [,180]      [,181]      [,182]      [,183]
## [1,] 0.44872360 0.16639711 0.59830938 0.83418928 0.7023807 0.83964333
## [2,] 0.57697354 0.06606507 0.90193989 0.02725105 0.3205621 0.82920655
## [3,] 0.52956198 0.52085327 0.64100986 0.79194012 0.4037757 0.05245249
## [4,] 0.20716231 0.72003435 0.56331857 0.31696838 0.1470539 0.01882209
## [5,] 0.98217180 0.31493197 0.55555702 0.87081105 0.8405689 0.38096248
## [6,] 0.16016557 0.52994775 0.06654735 0.32345453 0.8546264 0.66356073
## [7,] 0.98295946 0.46257847 0.65604711 0.64618597 0.9755988 0.98232552
## [8,] 0.90739663 0.56598125 0.35304868 0.01351453 0.1276000 0.44304105
## [9,] 0.67717182 0.27712741 0.75953421 0.99160699 0.1058211 0.81576382
## [10,] 0.08318818 0.76812339 0.75376563 0.38130195 0.1802010 0.10047429

```

```

##          [,184]      [,185]      [,186]      [,187]      [,188]      [,189]
## [1,] 0.2008603 0.16982609 0.72810785 0.55397977 0.86683684 0.5870261
## [2,] 0.7905131 0.04426299 0.87864836 0.43355817 0.05892941 0.3863215
## [3,] 0.6957383 0.07580810 0.57487062 0.94979793 0.07861953 0.2393265
## [4,] 0.6792070 0.45359831 0.15817808 0.31564314 0.97013552 0.1438573
## [5,] 0.9208727 0.70150885 0.67127215 0.23523875 0.11297906 0.9404634
## [6,] 0.2080546 0.73684797 0.14999518 0.44541808 0.17402771 0.4999785
## [7,] 0.8942670 0.31973916 0.04006234 0.02610088 0.62158394 0.1472479
## [8,] 0.8505347 0.67077460 0.62766834 0.01042594 0.20542860 0.2088666
## [9,] 0.8068044 0.99954759 0.67541206 0.16038288 0.54332110 0.8147571
## [10,] 0.2568872 0.29647107 0.16063324 0.03070461 0.27415998 0.4990358
##          [,190]      [,191]      [,192]      [,193]      [,194]      [,195]
## [1,] 0.48562353 0.57722026 0.57552600 0.247406115 0.9975907 0.21788432
## [2,] 0.90158113 0.30138814 0.05540889 0.697441297 0.8966505 0.50571430
## [3,] 0.81894646 0.14755662 0.80953536 0.009128586 0.8134634 0.61403937
## [4,] 0.05317166 0.60182002 0.58288234 0.409120412 0.1597035 0.81665067
## [5,] 0.07568260 0.51721036 0.42069674 0.430206696 0.8530538 0.11535439
## [6,] 0.72876645 0.79520036 0.66707899 0.170428775 0.3598693 0.35969319
## [7,] 0.13082439 0.51414374 0.04168888 0.529664360 0.7460073 0.78539121
## [8,] 0.67725263 0.93746717 0.93068250 0.992648789 0.7112170 0.04228762
## [9,] 0.39769081 0.43656852 0.92758329 0.797334989 0.1071740 0.94835807
## [10,] 0.36190596 0.09389627 0.47909242 0.421951723 0.9695219 0.27950504
##          [,196]      [,197]      [,198]      [,199]      [,200]      [,201]
## [1,] 0.878962907 0.3262273 0.4239639 0.18184237 0.7769875 0.11090936
## [2,] 0.006233989 0.8960972 0.5327602 0.09669373 0.1729011 0.72881979
## [3,] 0.250544949 0.0754019 0.3985727 0.10550150 0.3815420 0.73817554
## [4,] 0.447754082 0.9932604 0.3159119 0.81571320 0.5413987 0.53243525
## [5,] 0.238547214 0.7292721 0.9313680 0.69725938 0.8143805 0.58774464
## [6,] 0.556708573 0.8798074 0.7207555 0.05102890 0.7037768 0.32934561
## [7,] 0.951453618 0.3484288 0.9183472 0.38030021 0.9570358 0.03515979
## [8,] 0.765610334 0.3737844 0.9560508 0.12361799 0.7250782 0.61640990
## [9,] 0.068829233 0.3501820 0.6443108 0.67214803 0.1627551 0.23250670
## [10,] 0.076830490 0.9862746 0.9538307 0.05957291 0.2129374 0.98517842
##          [,202]      [,203]      [,204]      [,205]      [,206]      [,207]
## [1,] 0.05457984 0.5060707 0.87788226 0.73282168 0.8713673 0.88296257
## [2,] 0.30623493 0.5970947 0.40953613 0.63563940 0.7914266 0.76270230
## [3,] 0.33686557 0.6718838 0.35857148 0.20981263 0.7302392 0.24413598
## [4,] 0.56694790 0.7334286 0.61795590 0.83024868 0.9456550 0.73614616
## [5,] 0.51668237 0.2456149 0.36123523 0.07473013 0.8055736 0.09517892
## [6,] 0.44620574 0.2980284 0.38688200 0.25601267 0.8698656 0.73525420
## [7,] 0.86657356 0.9060524 0.01567752 0.01930970 0.4773083 0.23205263
## [8,] 0.54563998 0.8536633 0.22658988 0.52438486 0.0572355 0.56460078
## [9,] 0.54648139 0.2042273 0.06070175 0.58737233 0.2240479 0.16106744
## [10,] 0.69911532 0.4953924 0.08551950 0.16145833 0.4653999 0.88632555
##          [,208]      [,209]      [,210]      [,211]      [,212]      [,213]      [,2
14]
## [1,] 0.66706594 0.9797958 0.9000270 0.46229550 0.2959712 0.3391668 0.7598
363
## [2,] 0.01198020 0.5667140 0.9326127 0.37585489 0.6263163 0.0713006 0.6153
614

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```

## [3,] 0.86299144 0.6067647 0.9985358 0.79430518 0.9378447 0.5769069 0.5105
888
## [4,] 0.64618464 0.3705023 0.0877048 0.35710074 0.6935562 0.2225228 0.4815
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## [5,] 0.38328416 0.8157271 0.8497699 0.76643322 0.8085172 0.1891042 0.5255
293
## [6,] 0.04070979 0.8866845 0.2943844 0.79341428 0.7132728 0.2252417 0.3751
221
## [7,] 0.40498191 0.7349616 0.2280863 0.91393262 0.1161112 0.2327052 0.4714
624
## [8,] 0.37269132 0.1914489 0.8786181 0.60560702 0.1713600 0.6163697 0.9169
819
## [9,] 0.28062317 0.1357138 0.1364549 0.04846562 0.2682431 0.2051131 0.5461
548
## [10,] 0.01629771 0.2261469 0.2569596 0.84629610 0.5138541 0.2522750 0.7402
137
##          [,215]      [,216]      [,217]      [,218]      [,219]      [,220]      [,
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## [1,] 0.9351279 0.16999246 0.2214538 0.88804660 0.68298636 0.6596723 0.563
2040
## [2,] 0.6259652 0.37224388 0.7767646 0.84206050 0.04645523 0.8228820 0.674
5456
## [3,] 0.0414920 0.29171853 0.6533328 0.11979195 0.13563980 0.2353395 0.205
6338
## [4,] 0.9194663 0.63586550 0.3435247 0.45456330 0.77042129 0.4515769 0.305
2095
## [5,] 0.2889492 0.88835058 0.9921347 0.21770897 0.86658659 0.2508401 0.386
8355
## [6,] 0.5107787 0.52731624 0.9607309 0.61168545 0.60504143 0.7998309 0.330
7606
## [7,] 0.8172512 0.01320101 0.6696070 0.74797010 0.47220036 0.4473622 0.332
4866
## [8,] 0.3402459 0.86324660 0.1158696 0.09119835 0.51610348 0.4068060 0.302
8392
## [9,] 0.9608925 0.74638743 0.8019282 0.36893515 0.84408669 0.9034573 0.354
5160
## [10,] 0.9223561 0.19837778 0.3194236 0.45016516 0.53897668 0.4248028 0.445
5817
##          [,222]      [,223]      [,224]      [,225]      [,226]      [,227]
## [1,] 0.3603080 0.651573684 0.97666985 0.33187670 0.966051979 0.3839958
## [2,] 0.5077181 0.385300362 0.52950626 0.84573898 0.612723368 0.8395418
## [3,] 0.2274549 0.684203631 0.86602911 0.89821871 0.002010103 0.5455359
## [4,] 0.4333780 0.938078733 0.65003749 0.17482335 0.685650171 0.2032710
## [5,] 0.1794739 0.037044391 0.37047395 0.14534547 0.979375870 0.2401063
## [6,] 0.5595452 0.096581924 0.98058062 0.11501860 0.218098128 0.3117400
## [7,] 0.4139764 0.814686867 0.94272550 0.31738506 0.868626960 0.5514975
## [8,] 0.9033785 0.267363401 0.04468487 0.05963258 0.612671898 0.7447733
## [9,] 0.4255343 0.003516281 0.66937345 0.23090896 0.056915656 0.8894753
## [10,] 0.5805284 0.997330646 0.66361947 0.75960294 0.346565030 0.1508485
##          [,228]      [,229]      [,230]      [,231]      [,232]      [,233]      [

```

```
,234]
## [1,] 0.6174875 0.8129156 0.68713852 0.88831505 0.7266801 0.82366776 0.123
13775
## [2,] 0.7155057 0.6622924 0.70346420 0.31848061 0.5251671 0.50574443 0.914
42086
## [3,] 0.2644600 0.9939518 0.03230665 0.89724343 0.9462967 0.09293761 0.542
91549
## [4,] 0.6403849 0.2332649 0.21114539 0.76866826 0.1202121 0.23924312 0.821
16055
## [5,] 0.4472282 0.5719293 0.77417755 0.74233150 0.8984577 0.14960884 0.193
71019
## [6,] 0.6238611 0.9527807 0.42354175 0.03204472 0.6438544 0.65313602 0.049
07113
## [7,] 0.8571754 0.4215144 0.92756559 0.29694697 0.2396276 0.37990313 0.049
62943
## [8,] 0.9184559 0.8365187 0.32054064 0.57325387 0.3116876 0.21878175 0.231
03600
## [9,] 0.7993657 0.9854850 0.67524715 0.31479381 0.9672888 0.49109952 0.722
29499
## [10,] 0.7659520 0.3482637 0.24223841 0.92268456 0.6901436 0.07542064 0.423
85910
##           [,235]      [,236]      [,237]      [,238]      [,239]      [,240]
## [1,] 0.7668048905 0.9847269 0.3954514 0.02377303 0.2073873 0.26387275
## [2,] 0.3456732153 0.1812789 0.2189729 0.39194652 0.5683709 0.12717094
## [3,] 0.5672760438 0.6941427 0.4440678 0.25019402 0.9572780 0.20487522
## [4,] 0.1424514505 0.3649275 0.8378923 0.34187838 0.8298102 0.53022377
## [5,] 0.2521215370 0.7193078 0.5616830 0.51732307 0.3828368 0.30675354
## [6,] 0.1744491835 0.1966430 0.8469860 0.30779531 0.6448745 0.62907879
## [7,] 0.3189148637 0.6304802 0.9069747 0.88658484 0.1603201 0.23876266
## [8,] 0.2707327115 0.6906429 0.9950184 0.15558722 0.5878053 0.57990867
## [9,] 0.7597058401 0.8914149 0.9720444 0.13051993 0.0352652 0.02827823
## [10,] 0.0003726946 0.3835929 0.1165237 0.33244982 0.1092783 0.63405817
##           [,241]      [,242]      [,243]      [,244]      [,245]      [,246]
## [1,] 0.032217901 0.5810373 0.47618556 0.04903797 0.02024220 0.05404573
## [2,] 0.348505127 0.4772774 0.91999615 0.61509468 0.10006434 0.32545680
## [3,] 0.251361825 0.1065894 0.80345526 0.45695097 0.76797597 0.54093612
## [4,] 0.052895680 0.1777186 0.43707637 0.61250136 0.20586782 0.07369570
## [5,] 0.243918078 0.1786982 0.97132947 0.46536943 0.01375952 0.38398586
## [6,] 0.118362219 0.4628896 0.55564468 0.35393551 0.72484847 0.76517042
## [7,] 0.008505436 0.6867216 0.02816274 0.02315428 0.33990466 0.40103851
## [8,] 0.080751225 0.5458109 0.06502306 0.45719802 0.46784546 0.98055163
## [9,] 0.057010542 0.2879836 0.54980466 0.53100438 0.93065179 0.06795755
## [10,] 0.134612589 0.2402930 0.24658709 0.24300793 0.78528883 0.26050808
##           [,247]      [,248]      [,249]      [,250]      [,251]      [,252]      [,2
53]
## [1,] 0.84745082 0.0120546 0.0163089 0.4713931 0.9834836 0.7243673 0.47882
978
## [2,] 0.59041470 0.3283288 0.2598338 0.2345269 0.5326293 0.3370505 0.11031
215
## [3,] 0.41541441 0.9076639 0.5829169 0.9606767 0.4493705 0.6826602 0.01109
```

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723
## [4,] 0.47338952 0.9712872 0.8137693 0.6969141 0.1063990 0.4204091 0.71486
111
## [5,] 0.85230463 0.9419741 0.3718283 0.7966200 0.7112313 0.8853464 0.03963
275
## [6,] 0.48698691 0.7439503 0.1505343 0.5617669 0.4853978 0.2322519 0.99081
069
## [7,] 0.07748159 0.1871675 0.8698411 0.4660958 0.6627622 0.4602652 0.13371
576
## [8,] 0.17139629 0.5308756 0.9587700 0.8153417 0.6845628 0.3586542 0.77486
719
## [9,] 0.11768144 0.6354602 0.7058255 0.3403281 0.8411867 0.5819517 0.05951
309
## [10,] 0.66072795 0.5766368 0.2526828 0.0459759 0.8540230 0.8333048 0.24458
116
##          [,254]      [,255]      [,256]      [,257]      [,258]      [,259]      [
,260]
## [1,] 0.07402689 0.3927726 0.82751802 0.5149779 0.88476756 0.23377725 0.16
76433
## [2,] 0.96678634 0.5435713 0.06078851 0.9888251 0.45400951 0.53770739 0.87
68410
## [3,] 0.25825188 0.9784353 0.91358426 0.9536852 0.06123074 0.64395155 0.56
30635
## [4,] 0.53619366 0.1960484 0.39373104 0.1109559 0.01259519 0.08509002 0.62
89135
## [5,] 0.58503399 0.6331380 0.85610090 0.7080871 0.66922095 0.36130138 0.20
01772
## [6,] 0.22815816 0.5777858 0.02739164 0.7530557 0.72915395 0.39917944 0.18
55922
## [7,] 0.45685394 0.7895031 0.46635574 0.3208931 0.56093608 0.11873968 0.76
16338
## [8,] 0.47956879 0.9955976 0.97797745 0.3775372 0.81469608 0.98485659 0.83
79143
## [9,] 0.39793795 0.9415135 0.52291720 0.9475827 0.81141253 0.10252549 0.54
45845
## [10,] 0.78669694 0.1978782 0.61461967 0.9091803 0.09651895 0.68240915 0.78
12152
##          [,261]      [,262]      [,263]      [,264]      [,265]      [,266]
## [1,] 0.66892468 0.80761641 0.50911381 0.7075571 0.262666144 0.86743623
## [2,] 0.49242811 0.92501454 0.80167985 0.8757509 0.916751832 0.41400300
## [3,] 0.08183855 0.69423644 0.79958692 0.1246708 0.803962915 0.06746474
## [4,] 0.13078503 0.05247256 0.69043439 0.4310274 0.250020218 0.58018699
## [5,] 0.31609718 0.80328064 0.56804993 0.2324476 0.006048359 0.87615845
## [6,] 0.84096742 0.60035789 0.08905042 0.1889188 0.216895005 0.87381338
## [7,] 0.95181650 0.58165354 0.81372386 0.6557751 0.412623510 0.92479672
## [8,] 0.74659845 0.60734272 0.82467441 0.7163180 0.477731570 0.09388469
## [9,] 0.68448987 0.47809125 0.66560055 0.8192100 0.185489672 0.14081614
## [10,] 0.17137799 0.69000124 0.43285017 0.6012792 0.256941299 0.33161832
##          [,267]      [,268]      [,269]      [,270]      [,271]      [,272]
## [1,] 0.09117955 0.1983554 0.21596835 0.4005166 0.36690816 0.9977724

```

```

## [2,] 0.55967902 0.9152345 0.22121939 0.9182594 0.07124971 0.4260695
## [3,] 0.28519953 0.7059433 0.51398984 0.8737114 0.62257010 0.2145192
## [4,] 0.45988582 0.5050658 0.90139524 0.5445274 0.28561191 0.1313771
## [5,] 0.89695594 0.3549850 0.15429727 0.9425058 0.87137277 0.8520454
## [6,] 0.87538186 0.7024976 0.37249508 0.1919548 0.77664214 0.2921662
## [7,] 0.38039578 0.4557128 0.22282896 0.2932229 0.98269503 0.8117770
## [8,] 0.84811034 0.5801262 0.40095559 0.1378748 0.89932212 0.7808281
## [9,] 0.28478465 0.8659445 0.65670595 0.1678140 0.77365648 0.5220114
## [10,] 0.04964544 0.5190796 0.05632125 0.1535517 0.72268577 0.5525434
##      [,273]      [,274]      [,275]      [,276]      [,277]      [,278]
## [1,] 0.688584685 0.222336468 0.9356680 0.8573353 0.701956282 0.12836859
## [2,] 0.371041124 0.009416983 0.3587075 0.2778134 0.848978827 0.02238115
## [3,] 0.109933837 0.232264125 0.1705866 0.2123820 0.749317782 0.92999537
## [4,] 0.401149197 0.462065384 0.3249364 0.6087628 0.169361776 0.55373489
## [5,] 0.690811560 0.773069662 0.5598605 0.7642899 0.457361114 0.16868733
## [6,] 0.001114712 0.812135707 0.1180082 0.4329400 0.007325636 0.62445074
## [7,] 0.771293664 0.343814147 0.1864571 0.8962657 0.097124767 0.21011632
## [8,] 0.611494262 0.852858790 0.8061640 0.9086691 0.975143448 0.92751977
## [9,] 0.650786574 0.140176043 0.8285266 0.8599567 0.544645206 0.12903814
## [10,] 0.180637018 0.824251299 0.5659809 0.8966768 0.099063166 0.43031516
##      [,279]      [,280]      [,281]      [,282]      [,283]      [,284]
## [1,] 0.41775598 0.9177741 0.25425101 0.8903678 0.6036054 0.5266408
## [2,] 0.15446828 0.2150095 0.75895527 0.8715044 0.1708351 0.5190601
## [3,] 0.89780509 0.1489509 0.40251364 0.8419699 0.8486966 0.4702062
## [4,] 0.73802413 0.4355503 0.70105689 0.6355957 0.3669269 0.4725624
## [5,] 0.66835473 0.8124455 0.06445826 0.4588591 0.9653990 0.3176587
## [6,] 0.61344251 0.6762649 0.39109422 0.7064644 0.8278268 0.6644314
## [7,] 0.43462672 0.8500911 0.75386418 0.3432489 0.7031504 0.9308085
## [8,] 0.25139731 0.1341002 0.65655363 0.3424323 0.6460278 0.9004767
## [9,] 0.09671032 0.5735031 0.47612119 0.5630701 0.5246516 0.3744763
## [10,] 0.20153288 0.4117027 0.62104092 0.8736067 0.3985250 0.7252377
##      [,285]      [,286]      [,287]      [,288]      [,289]      [,290]
## [1,] 0.1219708810 0.44299988 0.76127214 0.9872748 0.47997273 0.55620266
## [2,] 0.5679845482 0.20649513 0.28896315 0.6200798 0.85015477 0.48907442
## [3,] 0.5521310847 0.74402693 0.80210798 0.1463319 0.11791940 0.21929412
## [4,] 0.1281997904 0.31628104 0.80829019 0.1596423 0.80336906 0.03062805
## [5,] 0.3185154253 0.19392802 0.79316961 0.8511412 0.91959924 0.19110983
## [6,] 0.0006649231 0.19606103 0.68925879 0.9029720 0.84338098 0.07466945
## [7,] 0.3171166216 0.18637231 0.09205538 0.3311565 0.04624967 0.54776929
## [8,] 0.4069810424 0.04256956 0.61014175 0.3115479 0.98970149 0.93370587
## [9,] 0.4821681869 0.75483158 0.94183150 0.6422202 0.55609822 0.50660874
## [10,] 0.5479478934 0.26504697 0.98251501 0.2470854 0.44990349 0.85185073
##      [,291]      [,292]      [,293]      [,294]      [,295]      [,296]      [,297]
## [1,] 0.5565994 0.5648266 0.36256617 0.6233234 0.76436795 0.5929012 0.3812
63234
## [2,] 0.1997516 0.7253574 0.08405425 0.1647171 0.96732572 0.9661584 0.9669
28465
## [3,] 0.9492073 0.7765632 0.20719612 0.6164216 0.66090618 0.1071517 0.0734
98286

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```

## [4,] 0.9915308 0.3022107 0.58486460 0.3399261 0.20165692 0.2619009 0.0063
52618
## [5,] 0.9056791 0.5157383 0.13794616 0.1785556 0.73219487 0.4236670 0.3824
59513
## [6,] 0.1936618 0.7580591 0.66854005 0.5723109 0.27742393 0.7416159 0.5139
88580
## [7,] 0.5896906 0.8644712 0.21245243 0.8446074 0.78242456 0.1144760 0.3679
42631
## [8,] 0.7914984 0.5053494 0.37487845 0.7966177 0.17619747 0.4511698 0.3734
55981
## [9,] 0.7127873 0.4402840 0.05030597 0.1697936 0.89051944 0.8979739 0.0686
36851
## [10,] 0.5205167 0.4644236 0.60506288 0.4685704 0.01345515 0.3238075 0.6329
47142
##           [,298]      [,299]      [,300]      [,301]      [,302]      [,303]
## [1,] 0.34620257 0.93552840 0.564354192 0.247584899 0.1318745 0.90477560
## [2,] 0.49798700 0.10635625 0.153069928 0.568978121 0.4179129 0.02133063
## [3,] 0.38897928 0.02538364 0.332767426 0.538556358 0.0745824 0.35399826
## [4,] 0.20537959 0.16784496 0.089324884 0.651971000 0.3553173 0.56704896
## [5,] 0.04872041 0.70946460 0.064213024 0.918002470 0.3080222 0.06166080
## [6,] 0.34624236 0.93066617 0.511822362 0.939062539 0.4794866 0.38801636
## [7,] 0.53066258 0.51121065 0.556339289 0.378393862 0.1365571 0.01570694
## [8,] 0.11787793 0.41053640 0.186933394 0.006710127 0.1837295 0.90740139
## [9,] 0.34565637 0.37466970 0.001407778 0.899285167 0.5965677 0.09991643
## [10,] 0.56452833 0.60055929 0.190901005 0.819206707 0.4946574 0.59521161
##           [,304]      [,305]      [,306]      [,307]      [,308]      [,309]      [,3
10]
## [1,] 0.2933522 0.7123704 0.51588389 0.6973382 0.3082491 0.57635016 0.9647
473
## [2,] 0.4218477 0.8248714 0.17035766 0.7934859 0.9127205 0.59758413 0.5189
914
## [3,] 0.3540646 0.8939838 0.98521779 0.9869889 0.8858478 0.49982478 0.1772
663
## [4,] 0.2638997 0.1323491 0.06381435 0.5140513 0.1708992 0.78782462 0.6127
743
## [5,] 0.8666611 0.6335904 0.22523482 0.4286772 0.3788303 0.28790267 0.8529
661
## [6,] 0.9238898 0.4293740 0.12803350 0.2381449 0.1426421 0.93566054 0.3424
413
## [7,] 0.9397831 0.1515060 0.76527600 0.4413679 0.8487947 0.19925038 0.9543
815
## [8,] 0.1361785 0.1028856 0.79054375 0.2320476 0.3621620 0.35982103 0.9427
326
## [9,] 0.4146531 0.2621305 0.78378520 0.4347820 0.4524028 0.78522566 0.5684
948
## [10,] 0.6217818 0.8644772 0.42644180 0.2236106 0.1169383 0.03605265 0.8121
913
##           [,311]      [,312]      [,313]      [,314]      [,315]      [,316]
## [1,] 0.58750997 0.06112217 0.66833842 0.8793281 0.3939501 0.39571873
## [2,] 0.14213966 0.84200013 0.87774841 0.7915667 0.6763752 0.67122495

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```

## [3,] 0.06449774 0.40598636 0.15885084 0.8632550 0.7069400 0.04826938
## [4,] 0.86245723 0.33750089 0.19864614 0.5601649 0.8749753 0.72710316
## [5,] 0.18225897 0.67606833 0.46019558 0.7489612 0.1236666 0.21740074
## [6,] 0.92730249 0.41993293 0.95098659 0.6393795 0.2992868 0.85761896
## [7,] 0.84300697 0.74320596 0.27090505 0.7319093 0.1877878 0.43880095
## [8,] 0.42245744 0.55426075 0.75384261 0.7049157 0.7378061 0.75072308
## [9,] 0.31639362 0.52728180 0.04324237 0.7686879 0.5038377 0.60527764
## [10,] 0.05223658 0.68060289 0.71537404 0.9144527 0.5201215 0.17941088
##      [,317]      [,318]      [,319]      [,320]      [,321]      [,322]
## [1,] 0.559655588 0.63218090 0.12917463 0.75470217 0.44900378 0.2859677
## [2,] 0.341880565 0.54209966 0.64497742 0.95822532 0.51349353 0.3796988
## [3,] 0.461176390 0.13058669 0.07386795 0.32344948 0.38235046 0.6066125
## [4,] 0.860155152 0.73704474 0.67645673 0.18863452 0.56996723 0.8455636
## [5,] 0.793777793 0.75007334 0.50122217 0.33994918 0.05842757 0.2476803
## [6,] 0.576117574 0.52040696 0.68233721 0.65848711 0.26209008 0.2030989
## [7,] 0.537616916 0.88781271 0.96464643 0.81304189 0.30184696 0.2892969
## [8,] 0.059671071 0.47888596 0.21917622 0.26525379 0.34674048 0.0569670
## [9,] 0.720633869 0.06909927 0.94007600 0.02404105 0.58010436 0.3533736
## [10,] 0.004569708 0.82453473 0.56528055 0.82419039 0.99524825 0.7864043
##      [,323]      [,324]      [,325]      [,326]      [,327]      [,328]
## [1,] 0.66182836 0.24762126 0.496225378 0.4004969 0.8686932 0.42478338
## [2,] 0.43851451 0.28952196 0.008856925 0.2528577 0.4582960 0.49689245
## [3,] 0.42310411 0.48265803 0.560412233 0.7486693 0.7871455 0.72481249
## [4,] 0.22267598 0.03026145 0.189952976 0.3870709 0.1369092 0.97323266
## [5,] 0.62482483 0.29204454 0.797877914 0.9658287 0.6905207 0.78854258
## [6,] 0.30884325 0.55109937 0.961744988 0.4569608 0.3436091 0.30826363
## [7,] 0.35569001 0.66574382 0.714491616 0.8490600 0.3093385 0.02451265
## [8,] 0.39101455 0.17811748 0.501197626 0.8402618 0.5551940 0.72055818
## [9,] 0.06775001 0.65559964 0.918681255 0.6859789 0.8734636 0.99642018
## [10,] 0.69991251 0.53529139 0.008811712 0.6686083 0.6645308 0.80162399
##      [,329]      [,330]      [,331]      [,332]      [,333]      [,334]
## [1,] 0.01480034 0.8082547 0.76571626 0.63837926 0.02264506 0.1387515
## [2,] 0.07314712 0.1088352 0.56783954 0.48821170 0.50638694 0.8863259
## [3,] 0.36076676 0.1290197 0.35671143 0.94193732 0.35768917 0.5297707
## [4,] 0.73012830 0.1511440 0.15734205 0.15942246 0.77181474 0.4080934
## [5,] 0.17886810 0.8408827 0.49920946 0.70874970 0.52841440 0.8017771
## [6,] 0.28650727 0.2451190 0.37571383 0.68655066 0.80795432 0.1155692
## [7,] 0.53921134 0.7656256 0.03010723 0.34268489 0.64901738 0.2392034
## [8,] 0.15775077 0.7302160 0.06961116 0.47657650 0.28043810 0.2680741
## [9,] 0.36550202 0.5936919 0.77586139 0.03614561 0.44853529 0.5089951
## [10,] 0.08263450 0.6990269 0.78842850 0.83316991 0.76133587 0.4590163
##      [,335]      [,336]      [,337]      [,338]      [,339]      [,340]
## [1,] 0.70472365 0.1344454 0.788320437 0.01475981 0.6465066 0.9227387
## [2,] 0.11080729 0.1196426 0.611890968 0.97406957 0.6681340 0.3196540
## [3,] 0.78518426 0.8146455 0.172082398 0.15054826 0.5738111 0.9375111
## [4,] 0.47372053 0.6565011 0.109949302 0.77687644 0.8591641 0.5862368
## [5,] 0.35593491 0.4309796 0.189791234 0.90314201 0.5757356 0.1022940
## [6,] 0.62011089 0.4951065 0.645228282 0.89614338 0.7215528 0.3939013
## [7,] 0.55010526 0.6655622 0.065452774 0.44005781 0.5309012 0.6877498
## [8,] 0.80695145 0.2397619 0.006059012 0.83034842 0.3463478 0.3276261

```



```
## [9,] 0.05369516 0.5133889 0.410995672 0.75674280 0.9424011 0.2366179
## [10,] 0.31006112 0.4909889 0.096643012 0.16252905 0.4790730 0.8211579
##      [,341]      [,342]      [,343]      [,344]      [,345]      [,346]      [
,347]
## [1,] 0.93679511 0.4691692 0.32794958 0.9367134 0.74276303 0.60643255 0.64
47197
## [2,] 0.04239714 0.6435758 0.08848277 0.9355885 0.03835341 0.09333771 0.29
60869
## [3,] 0.02862006 0.5323117 0.89714041 0.6711394 0.38837091 0.53015631 0.63
24479
## [4,] 0.09977301 0.5529951 0.99645959 0.1068884 0.96265963 0.07706839 0.48
32382
## [5,] 0.57070944 0.8614699 0.87353812 0.6983117 0.98373380 0.66917701 0.51
16099
## [6,] 0.82441343 0.5294557 0.44773252 0.3465790 0.71367665 0.07273490 0.22
16788
## [7,] 0.96454462 0.2937983 0.53651565 0.6122806 0.75674837 0.28740183 0.20
37869
## [8,] 0.25299692 0.5331860 0.91261147 0.9508020 0.79580057 0.62444590 0.57
95088
## [9,] 0.13472427 0.8109798 0.51898670 0.2277832 0.46917128 0.61754128 0.44
85000
## [10,] 0.94142720 0.5713138 0.39195012 0.6909915 0.97495838 0.47953380 0.31
96499
##      [,348]      [,349]      [,350]      [,351]      [,352]      [,353]      [
,354]
## [1,] 0.24079665 0.3916907 0.20676112 0.9180436 0.7212953 0.3413130 0.6084
6632
## [2,] 0.82602674 0.4276749 0.57807945 0.2523911 0.1108960 0.4111999 0.3565
4298
## [3,] 0.12053704 0.3806690 0.08383422 0.4874555 0.2941008 0.1335484 0.2875
3600
## [4,] 0.84838584 0.8960882 0.49611649 0.5987282 0.4512024 0.1089956 0.1336
1936
## [5,] 0.93284247 0.5663539 0.52065756 0.3245444 0.2402538 0.3042970 0.3416
2384
## [6,] 0.08207176 0.7625846 0.84245778 0.7942575 0.0899105 0.5097619 0.8433
2250
## [7,] 0.22384965 0.7665546 0.89756172 0.2757666 0.6099579 0.7597911 0.0164
6198
## [8,] 0.37446007 0.5976463 0.32725898 0.7616235 0.5998616 0.2613595 0.7676
5520
## [9,] 0.31156559 0.3344279 0.49760775 0.1723887 0.8800818 0.2366018 0.3765
6685
## [10,] 0.85772102 0.7297487 0.31449258 0.4868698 0.4756019 0.7227150 0.5476
1667
##      [,355]      [,356]      [,357]      [,358]      [,359]      [,360]
## [1,] 0.551197750 0.1314722 0.62582425 0.94242923 0.07281846 0.318421883
## [2,] 0.936672632 0.8693073 0.32195453 0.69496354 0.26881936 0.842856202
## [3,] 0.138756423 0.7730343 0.05354586 0.49794049 0.13500381 0.883834566
```

```

## [4,] 0.389763368 0.9456354 0.54964644 0.17485449 0.22271983 0.652976057
## [5,] 0.343428202 0.9252221 0.91838509 0.17983915 0.51466962 0.002440394
## [6,] 0.910978316 0.6724691 0.59424712 0.20591131 0.28592123 0.110375687
## [7,] 0.704141502 0.5920968 0.42654933 0.39645104 0.48419161 0.749840154
## [8,] 0.167934891 0.2068380 0.37608225 0.15289210 0.46859071 0.195240610
## [9,] 0.528123782 0.2952410 0.52395104 0.09645944 0.79664914 0.365982683
## [10,] 0.006037775 0.3231855 0.91685633 0.88227748 0.96233228 0.355895431
##      [,361]      [,362]      [,363]      [,364]      [,365]      [,366]
## [1,] 0.38792628 0.23007004 0.02372683 0.3599077 0.199617978 0.15986861
## [2,] 0.05791711 0.95178082 0.79847362 0.7823815 0.239470351 0.78495269
## [3,] 0.69798683 0.25810734 0.36046756 0.7289539 0.430665728 0.46346733
## [4,] 0.44861842 0.81997380 0.39443311 0.5499787 0.165540961 0.37577973
## [5,] 0.71435309 0.07768054 0.24944847 0.6042048 0.527797041 0.63064615
## [6,] 0.73993584 0.63646503 0.96320514 0.7228323 0.405656748 0.01039672
## [7,] 0.02810995 0.91105640 0.59881684 0.3941348 0.016335373 0.03543967
## [8,] 0.36706023 0.12263397 0.79701683 0.6674386 0.216331096 0.82802199
## [9,] 0.17880427 0.12038581 0.07224874 0.1432238 0.418905349 0.83112575
## [10,] 0.14152971 0.25040961 0.94668942 0.3469032 0.003143579 0.91883484
##      [,367]      [,368]      [,369]      [,370]      [,371]      [,372]      [
,373]
## [1,] 0.90548150 0.27311377 0.6815337 0.2383677 0.63668148 0.73708113 0.42
15969
## [2,] 0.76332046 0.66783046 0.5096220 0.4626951 0.16845323 0.87661595 0.22
01458
## [3,] 0.35716238 0.16838517 0.6488331 0.9751221 0.34701266 0.09705088 0.76
80644
## [4,] 0.80425339 0.62606597 0.8147930 0.1266556 0.70926438 0.65718234 0.78
79935
## [5,] 0.01417769 0.07806942 0.1307751 0.8951575 0.89552991 0.69996525 0.42
49788
## [6,] 0.14034772 0.18522623 0.1561077 0.3549357 0.14839468 0.66880576 0.26
62904
## [7,] 0.73658245 0.21732200 0.1002508 0.3946074 0.67590983 0.43889846 0.51
70854
## [8,] 0.55569783 0.19089028 0.5347700 0.9275846 0.20096294 0.80994517 0.79
40486
## [9,] 0.32321827 0.53711191 0.1913931 0.2228278 0.07857678 0.59011582 0.95
80383
## [10,] 0.99948870 0.28354179 0.1291704 0.6336558 0.94599255 0.15798195 0.90
46807
##      [,374]      [,375]      [,376]      [,377]      [,378]      [,379]
## [1,] 0.31054559 0.6980226 0.45402397 0.7609350 0.95093300 0.35974237
## [2,] 0.35704361 0.9008030 0.63884549 0.9276711 0.12564618 0.19022242
## [3,] 0.35048633 0.9079509 0.14570611 0.7424728 0.79426480 0.29478367
## [4,] 0.79465218 0.8273808 0.80398689 0.9325195 0.48814539 0.86236430
## [5,] 0.03537139 0.5397552 0.83510202 0.8813803 0.14373537 0.50709941
## [6,] 0.12470137 0.5566087 0.24427956 0.9123769 0.88356661 0.46644594
## [7,] 0.02045283 0.6064517 0.21619658 0.7887645 0.02755764 0.26290269
## [8,] 0.82624442 0.1550797 0.03817182 0.9589060 0.64309639 0.01573271
## [9,] 0.83849398 0.8386714 0.90303410 0.2103750 0.58551555 0.36165797

```

```

## [10,] 0.56782221 0.7153220 0.33200027 0.9345222 0.48665017 0.51150656
##          [,380]      [,381]      [,382]      [,383]      [,384]      [,385]
## [1,] 0.08342693 0.69386518 0.364717870 0.2786950 0.34341380 0.96558410
## [2,] 0.28592256 0.34716400 0.628695577 0.4490655 0.38054989 0.70952115
## [3,] 0.67134073 0.57413143 0.245410999 0.7022030 0.03870717 0.60201489
## [4,] 0.22617434 0.07966298 0.002708061 0.7168128 0.07497340 0.74672705
## [5,] 0.06065621 0.69008327 0.946524968 0.8675232 0.46551248 0.77122775
## [6,] 0.90274037 0.87980511 0.150104621 0.2401420 0.08602517 0.74416882
## [7,] 0.59532296 0.33753287 0.925695515 0.2714837 0.52859101 0.86191279
## [8,] 0.98780440 0.36185030 0.756548075 0.9930359 0.62928140 0.03786594
## [9,] 0.78669434 0.51748871 0.368242054 0.6427013 0.74364263 0.97137102
## [10,] 0.21570593 0.24499444 0.682547294 0.9443739 0.02617653 0.31846999
##          [,386]      [,387]      [,388]      [,389]      [,390]      [,391]
## [1,] 0.7310444 0.63984843 0.28215350 0.873065169 0.86902861 0.11357652
## [2,] 0.9883397 0.65760517 0.15898584 0.784107452 0.15940288 0.41692195
## [3,] 0.2858349 0.98509913 0.02604500 0.209080749 0.52419765 0.47671536
## [4,] 0.5137047 0.85919029 0.95581041 0.007983506 0.21880388 0.32733687
## [5,] 0.1903731 0.15520473 0.80460929 0.995153171 0.65403340 0.38014811
## [6,] 0.9347144 0.32989777 0.27278594 0.241798746 0.08811068 0.37346330
## [7,] 0.3633697 0.06912222 0.64966093 0.236030007 0.52073187 0.42343210
## [8,] 0.1746272 0.60790171 0.08343888 0.152813338 0.29473026 0.00873613
## [9,] 0.8950281 0.03917811 0.08103709 0.184440879 0.16294933 0.69801084
## [10,] 0.9286520 0.27125671 0.54928762 0.726464125 0.07506866 0.44066763
##          [,392]      [,393]      [,394]      [,395]      [,396]      [,397]      [,3
98]
## [1,] 0.1748892 0.3011169 0.5585493 0.2539713 0.7651788 0.56568869 0.25998
413
## [2,] 0.9248185 0.5118678 0.5635764 0.4046111 0.9621209 0.06771722 0.57046
611
## [3,] 0.1462702 0.7546043 0.8440048 0.2698612 0.7578923 0.40219684 0.50248
256
## [4,] 0.7315434 0.4205139 0.2364526 0.9361680 0.7156198 0.32355692 0.02039
273
## [5,] 0.6535595 0.7452821 0.5072146 0.4223891 0.4946709 0.00270139 0.82255
993
## [6,] 0.2433813 0.6607115 0.9709842 0.4289724 0.1711862 0.14053302 0.26048
603
## [7,] 0.1970506 0.5698207 0.4614540 0.1913164 0.2550037 0.96149507 0.73871
259
## [8,] 0.4393385 0.8657104 0.4564611 0.4220944 0.9369857 0.63674983 0.42832
155
## [9,] 0.4570636 0.2157496 0.8589548 0.0588504 0.4188566 0.59766562 0.50253
970
## [10,] 0.4880804 0.6903031 0.7965269 0.9807535 0.2654718 0.77587592 0.79873
996
##          [,399]      [,400]      [,401]      [,402]      [,403]      [,404]
## [1,] 0.2420723 0.95698058 0.92466189 0.58992952 0.32113063 0.77903303
## [2,] 0.3083670 0.27900756 0.05823534 0.08491676 0.31185740 0.29469389
## [3,] 0.4367744 0.21040829 0.14367793 0.63380441 0.04169172 0.47563447
## [4,] 0.3647619 0.48191989 0.54896143 0.98530466 0.36004727 0.90454239

```

```

## [5,] 0.8134966 0.08616951 0.58302842 0.84029611 0.49625911 0.80656579
## [6,] 0.1541427 0.56372460 0.98680893 0.85390729 0.71655920 0.06306322
## [7,] 0.1563232 0.28947941 0.65725462 0.04707064 0.40828429 0.33826590
## [8,] 0.9946481 0.94789251 0.54660146 0.53939935 0.56301088 0.91403492
## [9,] 0.8878583 0.69465604 0.72719578 0.89841087 0.95417692 0.07945214
## [10,] 0.7129820 0.85577288 0.41775676 0.60568440 0.15848217 0.15780113
##      [,405]      [,406]      [,407]      [,408]      [,409]      [,410]      [
,411]
## [1,] 0.02019099 0.91830483 0.1028109 0.693294326 0.4228858 0.2715000 0.86
05149
## [2,] 0.13733904 0.96017222 0.9727318 0.978153414 0.8799555 0.5108213 0.70
92835
## [3,] 0.09192595 0.59298147 0.1720676 0.001895079 0.3504662 0.3789366 0.66
65433
## [4,] 0.42168973 0.59679770 0.8367970 0.691141621 0.6078925 0.1030056 0.54
23023
## [5,] 0.24647650 0.87638108 0.5386526 0.330921250 0.7482712 0.3110229 0.82
83949
## [6,] 0.49815152 0.90248775 0.2204701 0.521036534 0.3307774 0.8896335 0.94
39723
## [7,] 0.52162955 0.93665033 0.9195155 0.040251176 0.9792817 0.2846086 0.67
70411
## [8,] 0.06760242 0.25730170 0.3753294 0.206917288 0.5576657 0.4487653 0.84
37641
## [9,] 0.99302398 0.55732046 0.2690744 0.093212876 0.4860006 0.7899903 0.69
21564
## [10,] 0.24351571 0.05844187 0.5584624 0.976989191 0.3669670 0.5332609 0.99
94276
##      [,412]      [,413]      [,414]      [,415]      [,416]      [,417]
## [1,] 0.0840840 0.25851588 0.33932288 0.45418879 0.502378628 0.33150490
## [2,] 0.3384754 0.57721974 0.59964588 0.78102283 0.312957387 0.25034800
## [3,] 0.9983182 0.49518683 0.83587866 0.32798012 0.385713357 0.69122403
## [4,] 0.9872182 0.21242334 0.04504631 0.93247581 0.148225192 0.46196466
## [5,] 0.5731364 0.33296818 0.50987976 0.93515834 0.048644750 0.66753430
## [6,] 0.2858703 0.56161253 0.27936957 0.52487800 0.957638533 0.34525400
## [7,] 0.6935238 0.77618711 0.20842473 0.01898423 0.943464288 0.05513074
## [8,] 0.9685096 0.07132069 0.40257444 0.64401771 0.375982588 0.76534951
## [9,] 0.3687843 0.21559341 0.21107223 0.89389592 0.002070523 0.99246310
## [10,] 0.1027040 0.67302267 0.05816246 0.46573547 0.436181665 0.64765367
##      [,418]      [,419]      [,420]      [,421]      [,422]      [,423]
## [1,] 0.82373102 0.34423348 0.05614696 0.28266244 0.01629797 0.1593054
## [2,] 0.74970340 0.04412229 0.44261468 0.27935406 0.42544266 0.2270849
## [3,] 0.04195758 0.51031412 0.62765098 0.74517742 0.36425574 0.9196434
## [4,] 0.56743527 0.54644667 0.48716561 0.03694338 0.62692505 0.1042504
## [5,] 0.92102601 0.16220493 0.54195863 0.72939539 0.72785393 0.4030892
## [6,] 0.48672753 0.46962238 0.07545275 0.25441813 0.43625745 0.1544173
## [7,] 0.26458193 0.25069565 0.84444427 0.69970326 0.73719423 0.1734410
## [8,] 0.61825587 0.52453219 0.47567459 0.45976735 0.21433969 0.7972450
## [9,] 0.29601444 0.88547409 0.02878969 0.39320702 0.07365863 0.4357971
## [10,] 0.11224811 0.89313081 0.75894178 0.11868470 0.53976405 0.2435708

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```

##          [,424]      [,425]      [,426]      [,427]      [,428]      [,429]
## [1,] 0.003785205 0.56608494 0.33856943 0.13058682 0.94260325 0.517462783
## [2,] 0.750280836 0.84994130 0.74146624 0.02066959 0.73263510 0.203592602
## [3,] 0.794913026 0.41502062 0.08795911 0.18259498 0.77664463 0.523410003
## [4,] 0.961212641 0.11068894 0.38276650 0.88522241 0.45019296 0.907376357
## [5,] 0.445034434 0.03537300 0.44808012 0.18490344 0.26261620 0.761691022
## [6,] 0.697126339 0.76936672 0.21111410 0.26515395 0.84021354 0.508834988
## [7,] 0.792349714 0.31621063 0.94493737 0.66819632 0.01631524 0.002099275
## [8,] 0.572941512 0.06927432 0.73304582 0.59787607 0.99317982 0.046529248
## [9,] 0.545533073 0.90419273 0.47400833 0.86754678 0.28693415 0.540571691
## [10,] 0.198907998 0.76867423 0.76150081 0.95471858 0.77151413 0.809581348
##          [,430]      [,431]      [,432]      [,433]      [,434]      [,435]      [,
436]
## [1,] 0.7740302 0.7409994 0.1299270 0.03952007 0.35114280 0.09494095 0.676
9763
## [2,] 0.7997858 0.3047711 0.5288009 0.63031613 0.96402997 0.68067499 0.903
7204
## [3,] 0.7513815 0.4152704 0.7591149 0.21982847 0.02801214 0.63081964 0.989
6759
## [4,] 0.7912235 0.4265435 0.8959036 0.77666934 0.36665319 0.17192569 0.604
8824
## [5,] 0.3692553 0.5227839 0.3589060 0.16674060 0.03928372 0.91295021 0.947
8487
## [6,] 0.1692699 0.4478223 0.7601071 0.17673000 0.30251031 0.91868482 0.326
2126
## [7,] 0.1736969 0.6963983 0.5459132 0.87089435 0.84866486 0.80833929 0.276
7898
## [8,] 0.6682929 0.2470423 0.8216689 0.68113177 0.70227399 0.95513514 0.329
8238
## [9,] 0.4560487 0.3218963 0.4855968 0.87405319 0.09285187 0.20854811 0.144
1728
## [10,] 0.2562669 0.2113337 0.7274984 0.56618197 0.33230810 0.05446666 0.921
3560
##          [,437]      [,438]      [,439]      [,440]      [,441]      [,442]
## [1,] 0.248366630 0.7927601 0.33505295 0.66682095 0.17168292 0.05266441
## [2,] 0.521237253 0.1945245 0.71885611 0.80762131 0.85273953 0.35782852
## [3,] 0.291854999 0.5182867 0.20091722 0.88154310 0.51260669 0.94786258
## [4,] 0.146218012 0.9872262 0.80174609 0.56650929 0.60732249 0.35609588
## [5,] 0.948559806 0.5940425 0.42801449 0.39118505 0.70760760 0.56847315
## [6,] 0.439471201 0.4404081 0.57496536 0.02631262 0.56533389 0.34973133
## [7,] 0.128649786 0.4244636 0.02091909 0.25977364 0.34155272 0.08421640
## [8,] 0.008045549 0.2088675 0.92279403 0.30656175 0.08194178 0.55733539
## [9,] 0.456506587 0.8762823 0.17267828 0.54760045 0.67722411 0.42131895
## [10,] 0.566491023 0.2817724 0.36463982 0.90116614 0.22116938 0.71053560
##          [,443]      [,444]      [,445]      [,446]      [,447]      [,448]      [,4
49]
## [1,] 0.8001666 0.1039181 0.4731964 0.59199738 0.1519215 0.8013351 0.06865
738
## [2,] 0.2913127 0.7889938 0.4768724 0.56707043 0.2130872 0.8576902 0.85865
187

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```

## [3,] 0.9104215 0.4046037 0.6992507 0.28826873 0.6705171 0.9142340 0.86432
207
## [4,] 0.9513486 0.6011858 0.2348616 0.36662939 0.6233963 0.1328987 0.96085
185
## [5,] 0.8798888 0.8673119 0.8962528 0.88539596 0.1692353 0.1932908 0.12409
636
## [6,] 0.4523243 0.3700783 0.8548698 0.78837214 0.1710014 0.9767434 0.07480
877
## [7,] 0.7839019 0.3031334 0.7515225 0.91739099 0.2321362 0.5171115 0.06562
945
## [8,] 0.7942048 0.1606303 0.5190694 0.00549573 0.7532827 0.9801970 0.05676
954
## [9,] 0.3492607 0.7746540 0.8623769 0.81611943 0.6954323 0.8888242 0.93244
987
## [10,] 0.6927843 0.9715701 0.7757687 0.53365695 0.6386444 0.6827881 0.72371
595
##      [,450]      [,451]      [,452]      [,453]      [,454]      [,455]
## [1,] 0.6754665 0.33820427 0.13089133 0.13408815 0.26965168 0.6328994
## [2,] 0.9549803 0.10310557 0.64835536 0.01116991 0.73499377 0.8892882
## [3,] 0.5860900 0.62908758 0.22122957 0.32153092 0.40614920 0.7797698
## [4,] 0.7151733 0.68802108 0.36571522 0.14582700 0.33200180 0.1642474
## [5,] 0.8571234 0.23851744 0.09101945 0.90533355 0.05147188 0.7549237
## [6,] 0.6072440 0.44271496 0.52794068 0.28577768 0.32590501 0.4387667
## [7,] 0.7359686 0.76043493 0.92508007 0.85180599 0.22943643 0.2425435
## [8,] 0.4635446 0.28661569 0.94884252 0.82874374 0.16430760 0.7839597
## [9,] 0.6458135 0.93035663 0.93255958 0.24580937 0.20774109 0.5861744
## [10,] 0.9546032 0.02089734 0.62727678 0.93076718 0.36593762 0.8267781
##      [,456]      [,457]      [,458]      [,459]      [,460]      [,461]
## [1,] 0.64152357 0.01106739 0.7111288 0.01210468 0.41749837 0.8709862
## [2,] 0.62016858 0.79187120 0.7189089 0.35329669 0.64807254 0.4203560
## [3,] 0.91933132 0.08297912 0.7755132 0.41577863 0.52802827 0.5308079
## [4,] 0.51410357 0.70743678 0.4486561 0.84496047 0.02225786 0.7066818
## [5,] 0.57508862 0.34499302 0.5277551 0.56920743 0.19499362 0.5155559
## [6,] 0.03191355 0.58652560 0.8626904 0.29087111 0.37419342 0.1373436
## [7,] 0.85728394 0.97344718 0.8105381 0.51525144 0.76093656 0.2156223
## [8,] 0.04016367 0.46341408 0.3430350 0.26938001 0.59839783 0.6065723
## [9,] 0.35589031 0.55826114 0.7021150 0.11705393 0.27915624 0.4777453
## [10,] 0.73983841 0.01013549 0.1474803 0.72434691 0.18766844 0.8475935
##      [,462]      [,463]      [,464]      [,465]      [,466]      [,467]
## [1,] 0.09486185 0.12158246 0.2670819 0.82912466 0.9416911 0.57646331
## [2,] 0.92337013 0.97910836 0.8750486 0.16770041 0.1887876 0.46286866
## [3,] 0.90548552 0.81830434 0.7059661 0.28142172 0.9919469 0.40547052
## [4,] 0.70778879 0.31307469 0.5574820 0.84252505 0.8371178 0.26353807
## [5,] 0.65591362 0.81244211 0.0775328 0.98396283 0.2392590 0.28612579
## [6,] 0.53129358 0.63634405 0.1225042 0.70373554 0.2641510 0.03014693
## [7,] 0.90726580 0.65776179 0.5663724 0.17011929 0.3198437 0.40491387
## [8,] 0.07956205 0.05722353 0.7097402 0.60004776 0.2447403 0.81437713
## [9,] 0.65107824 0.78022091 0.5241641 0.01917678 0.2539935 0.35318282
## [10,] 0.07898494 0.52840969 0.2914436 0.25760630 0.7618090 0.65147136
##      [,468]      [,469]      [,470]      [,471]      [,472]      [,473]

```

```

## [1,] 0.72834547 0.63106019 0.554370891 0.6906030 0.171682509 0.280772837
## [2,] 0.20714310 0.88575960 0.421086435 0.1694990 0.008391336 0.256834774
## [3,] 0.40890201 0.81310796 0.751851710 0.6657555 0.017083659 0.654766857
## [4,] 0.78791991 0.88523766 0.584143414 0.7820844 0.605030744 0.374453776
## [5,] 0.99433574 0.27025615 0.002203811 0.6214340 0.368198482 0.009429671
## [6,] 0.04189807 0.68866759 0.664763146 0.9051365 0.761448910 0.703503121
## [7,] 0.85058042 0.08035244 0.607356442 0.3516341 0.642991925 0.839370793
## [8,] 0.18027286 0.97518145 0.516252480 0.4167436 0.103078348 0.307023025
## [9,] 0.30543368 0.87403812 0.332510527 0.9773073 0.609246916 0.354925542
## [10,] 0.16007105 0.23025959 0.357639063 0.9918065 0.130521344 0.520598138
##      [,474]      [,475]      [,476]      [,477]      [,478]      [,479]      [
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## [1,] 0.7706365 0.2825774 0.75169380 0.592253101 0.36301073 0.3844142 0.30
18013
## [2,] 0.6917340 0.4243600 0.07004681 0.269175882 0.46896695 0.6795592 0.88
52132
## [3,] 0.5502829 0.3652326 0.73013723 0.733843325 0.02160132 0.5262418 0.65
68025
## [4,] 0.2081653 0.5247671 0.31619046 0.065316901 0.46392438 0.1645544 0.26
82849
## [5,] 0.8974098 0.2316158 0.70694378 0.559220688 0.20507460 0.5715136 0.30
81635
## [6,] 0.9039150 0.9788229 0.21251217 0.006078446 0.72542683 0.2376003 0.99
48052
## [7,] 0.2764249 0.9973323 0.70813591 0.152266906 0.51309279 0.1713543 0.22
83839
## [8,] 0.6345985 0.1253021 0.37616781 0.643252454 0.40516994 0.4899256 0.86
53038
## [9,] 0.3096516 0.1038281 0.27183193 0.126027330 0.23544563 0.4348796 0.95
66987
## [10,] 0.1846083 0.8645272 0.99763896 0.786856209 0.95298582 0.6641810 0.55
22181
##      [,481]      [,482]      [,483]      [,484]      [,485]      [,486]
## [1,] 0.8818906 0.002970724 0.90136702 0.7136659 0.53225918 0.03009791
## [2,] 0.3426650 0.111792037 0.41465698 0.7704797 0.17996914 0.08629400
## [3,] 0.2593965 0.285290430 0.54140963 0.4066969 0.44465408 0.37469362
## [4,] 0.7461723 0.381755351 0.82605267 0.4787836 0.70049633 0.86437074
## [5,] 0.7634488 0.185967195 0.40013678 0.5999063 0.07286391 0.94068301
## [6,] 0.4616864 0.300001909 0.73305256 0.2820027 0.41574979 0.28448989
## [7,] 0.4775551 0.087829592 0.53515613 0.4831852 0.29168545 0.77297334
## [8,] 0.9114399 0.020980859 0.68303482 0.3320394 0.39959344 0.06819906
## [9,] 0.8267658 0.432020846 0.02667605 0.5395587 0.55435647 0.72050243
## [10,] 0.3144688 0.027727229 0.19940314 0.1117529 0.40144807 0.28979091
##      [,487]      [,488]      [,489]      [,490]      [,491]      [,492]      [
,493]
## [1,] 0.40549258 0.72762535 0.76803625 0.1825678 0.41952731 0.8360312 0.68
37269
## [2,] 0.73725582 0.25201090 0.89202319 0.6171974 0.01194033 0.6602659 0.38
78125
## [3,] 0.24286398 0.45410302 0.40755032 0.6364517 0.49623299 0.8706631 0.15

```

```

97200
## [4,] 0.46255315 0.09959904 0.05987415 0.8987215 0.59425473 0.2270441 0.92
90534
## [5,] 0.06413764 0.07527126 0.74387394 0.3336555 0.73283467 0.6314386 0.42
69670
## [6,] 0.13967694 0.48448529 0.28446805 0.7032423 0.63750654 0.6596681 0.52
50102
## [7,] 0.98903613 0.95471329 0.74099194 0.7466861 0.46839552 0.5440849 0.97
35236
## [8,] 0.37133331 0.14657437 0.88775124 0.2855304 0.36016881 0.9179923 0.33
55721
## [9,] 0.68899652 0.48102105 0.04879049 0.1150339 0.60397958 0.7103192 0.13
04646
## [10,] 0.72242605 0.27561310 0.26952834 0.9702749 0.58547492 0.4838495 0.15
46859
##           [,494]      [,495]      [,496]      [,497]      [,498]      [,499]
## [1,] 0.09432247 0.8604266 0.29142484 0.5678350 0.9572947 0.481496110
## [2,] 0.85719714 0.9796576 0.04809325 0.5617216 0.4281620 0.831731409
## [3,] 0.23473089 0.5248633 0.17184267 0.9504188 0.1151843 0.415208717
## [4,] 0.31978500 0.2907733 0.90675560 0.4943412 0.4263944 0.865928641
## [5,] 0.48039369 0.7265488 0.03230505 0.2346568 0.9959415 0.002557399
## [6,] 0.47513787 0.8380625 0.44196125 0.2700542 0.2012764 0.996711610
## [7,] 0.34750991 0.8157657 0.01268535 0.5216913 0.1533849 0.711657223
## [8,] 0.27687620 0.9028968 0.10217185 0.8591263 0.5553105 0.828360104
## [9,] 0.74251278 0.1012710 0.59392193 0.1357569 0.7903311 0.900019255
## [10,] 0.20702495 0.5892198 0.98576265 0.6367783 0.6911822 0.840482788
##           [,500]      [,501]      [,502]      [,503]      [,504]      [,505]      [
,506]
## [1,] 0.34229313 0.7110705 0.06964952 0.26260917 0.06414456 0.1726378 0.99
23579
## [2,] 0.04529063 0.3447553 0.75984840 0.23745445 0.76730409 0.2018316 0.79
79808
## [3,] 0.98329768 0.5839642 0.54391207 0.77274258 0.15459169 0.9444698 0.56
66593
## [4,] 0.46785059 0.8310972 0.33907835 0.33255884 0.37861766 0.5079366 0.94
06303
## [5,] 0.76238220 0.3735286 0.01726952 0.92231120 0.38132713 0.9259668 0.98
75584
## [6,] 0.18474992 0.4412706 0.06813861 0.05313673 0.42912144 0.2181478 0.34
37157
## [7,] 0.77560888 0.1649400 0.43392193 0.28394540 0.58994677 0.2218079 0.81
69833
## [8,] 0.28398673 0.6147153 0.83756694 0.22696532 0.19615041 0.9288044 0.19
82230
## [9,] 0.66036333 0.8355428 0.65246477 0.96284218 0.11023515 0.9517662 0.12
45016
## [10,] 0.18671138 0.6033363 0.66672699 0.07685489 0.05818006 0.1055734 0.28
80697
##           [,507]      [,508]      [,509]      [,510]      [,511]      [,512]      [,
513]

```



```

## [1,] 0.7120770 0.23260346 0.17474525 0.6540618 0.7501912 0.71898919 0.910
0911
## [2,] 0.8705488 0.52749076 0.95647320 0.2815404 0.3890388 0.56621851 0.903
6197
## [3,] 0.3404902 0.06079572 0.30577276 0.1220424 0.3780006 0.77738050 0.153
5284
## [4,] 0.2763756 0.77502876 0.09969440 0.8762140 0.7700279 0.12996016 0.613
2363
## [5,] 0.6477072 0.28709853 0.41499921 0.1724372 0.4494618 0.06323659 0.732
8169
## [6,] 0.4902159 0.03648972 0.93685606 0.8034453 0.1775052 0.40323055 0.856
8906
## [7,] 0.2929344 0.62870029 0.03745247 0.5148367 0.0446053 0.79917182 0.852
1001
## [8,] 0.4395963 0.82662464 0.11916518 0.7689304 0.3787019 0.03076759 0.162
4624
## [9,] 0.6384942 0.97937937 0.05382934 0.6272685 0.6053648 0.34900166 0.498
3901
## [10,] 0.5029685 0.26760991 0.67246112 0.6533742 0.3610194 0.34180893 0.285
5419
##           [,514]      [,515]      [,516]      [,517]      [,518]      [,519]
## [1,] 0.005668877 0.102486779 0.5199384 0.8160918 0.3171014425 0.7032798
## [2,] 0.353842991 0.827070383 0.5956930 0.1595984 0.6830199752 0.3629615
## [3,] 0.241935534 0.759754804 0.7909023 0.8293937 0.2609688602 0.7447194
## [4,] 0.683134211 0.855750181 0.7389433 0.5751960 0.4058155203 0.6601944
## [5,] 0.270896068 0.437380638 0.5217499 0.3396261 0.5808694083 0.6195857
## [6,] 0.271365309 0.746152801 0.7697009 0.7177721 0.7535346630 0.1764231
## [7,] 0.701392922 0.327594551 0.4827373 0.1961551 0.0004156223 0.7109605
## [8,] 0.570999893 0.342603094 0.9991811 0.9102727 0.8132241427 0.0115814
## [9,] 0.270613349 0.001090947 0.6494017 0.1768218 0.1126147239 0.9224986
## [10,] 0.087334580 0.125866795 0.6649824 0.8231348 0.8980078059 0.3276363
##           [,520]      [,521]      [,522]      [,523]      [,524]      [,525]
## [1,] 0.11283303 0.07499982 0.8823380 0.7902683 0.53227001 0.57539366
## [2,] 0.61420624 0.85038931 0.4026789 0.9672963 0.60391612 0.34589793
## [3,] 0.03751799 0.67521501 0.7923701 0.0621047 0.58367910 0.50548908
## [4,] 0.81505994 0.29317190 0.2750659 0.5940085 0.89649159 0.76628536
## [5,] 0.98773795 0.78490970 0.3138411 0.2624818 0.04414928 0.08263293
## [6,] 0.56036817 0.61415627 0.5378979 0.2256888 0.14693194 0.56582566
## [7,] 0.94740489 0.64790614 0.4188973 0.9136480 0.23561182 0.01716585
## [8,] 0.46348059 0.93986680 0.9219805 0.9024515 0.70799349 0.87336823
## [9,] 0.46665026 0.87799975 0.4711991 0.5398140 0.48117579 0.19889540
## [10,] 0.26110837 0.51864929 0.4906053 0.6018222 0.64843013 0.24318835
##           [,526]      [,527]      [,528]      [,529]      [,530]      [,531]      [,
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## [1,] 0.12099561 0.4559083 0.6205028 0.39650087 0.1636140 0.88235685 0.029
0449
## [2,] 0.68738801 0.7410552 0.1731619 0.41934290 0.8182382 0.37838142 0.540
3998
## [3,] 0.54319136 0.4581329 0.5267114 0.82124925 0.8491886 0.75687081 0.224
2574

```

```

## [4,] 0.07471104 0.4222125 0.4137174 0.40377821 0.3321743 0.09468794 0.833
5187
## [5,] 0.52136921 0.9878659 0.9084947 0.01595724 0.7525721 0.63133610 0.787
4054
## [6,] 0.05981699 0.4561911 0.9541406 0.93749281 0.8158114 0.68936358 0.956
1203
## [7,] 0.62344116 0.7307065 0.9335013 0.70753338 0.4615798 0.38615144 0.377
5023
## [8,] 0.44179590 0.6725674 0.1632846 0.86484158 0.7435661 0.89216736 0.523
9232
## [9,] 0.10934625 0.1286012 0.5061065 0.39619952 0.6393986 0.93254300 0.749
8049
## [10,] 0.73040148 0.9013063 0.4004705 0.90941310 0.9731453 0.44294108 0.904
7255
##           [,533]      [,534]      [,535]      [,536]      [,537]      [,538]
## [1,] 0.62994702 0.686102306 0.53890957 0.984126404 0.8872205 0.4884700
## [2,] 0.42689620 0.629088300 0.22266838 0.260129220 0.9168667 0.6889607
## [3,] 0.04199011 0.358733685 0.38187906 0.099624105 0.2790556 0.7650016
## [4,] 0.91896847 0.147614945 0.13095476 0.003745253 0.4412348 0.2860686
## [5,] 0.49772502 0.003570839 0.24148123 0.959153795 0.5206836 0.1605268
## [6,] 0.08729001 0.570118132 0.29951351 0.523227435 0.3832581 0.2394217
## [7,] 0.43230520 0.643190106 0.35931463 0.994166861 0.4165102 0.7571515
## [8,] 0.68411004 0.208136100 0.98130768 0.194685459 0.8804977 0.1215671
## [9,] 0.60781174 0.938547309 0.52684322 0.293591755 0.5572300 0.7482227
## [10,] 0.05487572 0.190652837 0.01680138 0.131367562 0.5636757 0.6250043
##           [,539]      [,540]      [,541]      [,542]      [,543]      [,544]      [
,545]
## [1,] 0.8020188 0.05177477 0.41265621 0.3848685 0.1911648 0.53238679 0.533
68493
## [2,] 0.5058945 0.71158411 0.78726614 0.1159485 0.5836560 0.16003003 0.088
93536
## [3,] 0.2422663 0.55840076 0.50148287 0.7432915 0.2372973 0.37189847 0.297
65425
## [4,] 0.1387023 0.46246109 0.96605312 0.6701829 0.9553015 0.04898998 0.565
35518
## [5,] 0.6382723 0.61116299 0.19972042 0.4270145 0.8649735 0.89082580 0.344
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## [6,] 0.7834920 0.29538235 0.05942865 0.4435186 0.3544096 0.99381281 0.479
33010
## [7,] 0.3855701 0.90724338 0.41597376 0.7196802 0.2119458 0.28729549 0.621
41829
## [8,] 0.8156935 0.44044794 0.38892252 0.1486257 0.1651003 0.71687666 0.936
97363
## [9,] 0.0961791 0.12638336 0.15748465 0.6461179 0.9295294 0.28879066 0.210
33777
## [10,] 0.6136457 0.91465773 0.05637017 0.9614287 0.4679903 0.86749763 0.783
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##           [,546]      [,547]      [,548]      [,549]      [,550]      [,551]
## [1,] 0.8981962 0.14139506 0.8128398799 0.669176444 0.43680040 0.44971756
## [2,] 0.1830583 0.19512775 0.9688290805 0.792132105 0.56298227 0.48432808

```

```

## [3,] 0.7854460 0.60322378 0.7128575167 0.824997805 0.42381431 0.79837790
## [4,] 0.2047199 0.55713335 0.5189491250 0.478275330 0.67793160 0.36220519
## [5,] 0.6482384 0.82861291 0.1746107352 0.933355944 0.04297117 0.89709496
## [6,] 0.6094949 0.02361525 0.8277748779 0.038315376 0.10973394 0.63420235
## [7,] 0.2186784 0.80568844 0.1689956097 0.004195902 0.70189673 0.11841125
## [8,] 0.3835914 0.20535301 0.0005204994 0.149107892 0.74181926 0.36259004
## [9,] 0.1210930 0.34354312 0.9975178216 0.287396941 0.71042985 0.02816645
## [10,] 0.7716407 0.18372746 0.5612058975 0.067127107 0.39327469 0.86711971
##      [,552]      [,553]      [,554]      [,555]      [,556]      [,557]
## [1,] 0.41761949 0.44793824 0.91812653 0.6427102 0.4725790 0.973364942
## [2,] 0.09624795 0.37909186 0.90934210 0.5965102 0.7202126 0.120338938
## [3,] 0.19118775 0.04786229 0.65089329 0.4895443 0.3979545 0.695859626
## [4,] 0.05704441 0.94424189 0.99006226 0.5816251 0.0678060 0.391032545
## [5,] 0.57042035 0.96824170 0.37511771 0.9381888 0.3567482 0.060837671
## [6,] 0.77386242 0.90761360 0.17488377 0.4639317 0.1765973 0.644641545
## [7,] 0.73745691 0.23672578 0.23550307 0.1843257 0.3764385 0.532639170
## [8,] 0.33345259 0.85021807 0.02195277 0.3921224 0.4876732 0.004850307
## [9,] 0.23310272 0.04474810 0.27784025 0.3950810 0.7696610 0.733156133
## [10,] 0.08886298 0.11816972 0.29919559 0.8588485 0.8959039 0.333754454
##      [,558]      [,559]      [,560]      [,561]      [,562]      [,563]
## [1,] 0.0009195334 0.62083773 0.4656504 0.6175474 0.7871688 0.90366490
## [2,] 0.7946564641 0.80446344 0.5755910 0.7369469 0.3828415 0.01856936
## [3,] 0.0806856626 0.02362284 0.8530053 0.8912983 0.5960830 0.25395318
## [4,] 0.7970582533 0.31862811 0.3370345 0.8439008 0.7696656 0.73520636
## [5,] 0.7269213493 0.85955654 0.6507758 0.9144136 0.9160853 0.21945285
## [6,] 0.7112826167 0.21061920 0.6498966 0.5004765 0.8897576 0.65041306
## [7,] 0.3795725082 0.77285467 0.8553508 0.4627533 0.9883259 0.09999496
## [8,] 0.2792935974 0.56311086 0.4636395 0.7156843 0.2728348 0.73551728
## [9,] 0.5442585009 0.28694797 0.2852271 0.4062860 0.4623067 0.02153337
## [10,] 0.5607964892 0.14506783 0.2261318 0.9582548 0.2323981 0.46046564
##      [,564]      [,565]      [,566]      [,567]      [,568]      [,569]
## [1,] 0.35231663 0.8329376278 0.86577259 0.09634863 0.62923731 0.5637221
## [2,] 0.81445754 0.3526991250 0.02553364 0.02914818 0.76336732 0.6855449
## [3,] 0.08715371 0.0652902874 0.02322850 0.17616180 0.76105171 0.9242576
## [4,] 0.12682718 0.5563353810 0.38794626 0.75003477 0.04373288 0.9733747
## [5,] 0.58535575 0.9569129655 0.98726604 0.44571214 0.76941784 0.8576147
## [6,] 0.64682305 0.7824553198 0.83036019 0.11511269 0.93993367 0.6241688
## [7,] 0.95572005 0.0008602093 0.93439306 0.74590514 0.05043794 0.3496250
## [8,] 0.31334250 0.8399484127 0.71419292 0.53207199 0.17849813 0.2151463
## [9,] 0.94804129 0.1373303309 0.38840068 0.67425264 0.62747006 0.9615392
## [10,] 0.94316663 0.0118482942 0.25653796 0.54754806 0.09357336 0.5477350
##      [,570]      [,571]      [,572]      [,573]      [,574]      [,575]
## [1,] 0.6240786 0.56071199 0.48447772 0.57628929 0.1746775 0.343289903
## [2,] 0.8112320 0.39317812 0.18397825 0.39169544 0.3639438 0.662614495
## [3,] 0.2207292 0.78764304 0.47857435 0.52169766 0.9108304 0.212373244
## [4,] 0.9723004 0.52911674 0.25983621 0.13241068 0.1233966 0.142620781
## [5,] 0.2493511 0.20902324 0.77358943 0.41601628 0.7787246 0.688491356
## [6,] 0.3952672 0.03413251 0.89682910 0.96325138 0.6316134 0.001114627
## [7,] 0.5699537 0.63156299 0.18448457 0.09429598 0.1082248 0.908238163
## [8,] 0.2283900 0.51446718 0.71304787 0.75479699 0.9516618 0.950438007

```

```

## [9,] 0.2618232 0.75933373 0.50898129 0.50149249 0.5930596 0.859468816
## [10,] 0.5522678 0.24606034 0.03065971 0.46808057 0.5189424 0.634301574
##      [,576]      [,577]      [,578]      [,579]      [,580]      [,581]
## [1,] 0.2441459 0.75390567 0.17549930 0.5592947 0.46145804 0.06945521
## [2,] 0.3598952 0.04665304 0.63815642 0.5136410 0.89399414 0.61277006
## [3,] 0.9380799 0.85811066 0.51633516 0.6911891 0.79157905 0.77233541
## [4,] 0.6269144 0.50678116 0.12525206 0.8185417 0.98903313 0.79530165
## [5,] 0.4643158 0.82850824 0.38852037 0.2028218 0.08801232 0.85613305
## [6,] 0.6236194 0.05913990 0.83270739 0.4988558 0.43216962 0.86363815
## [7,] 0.2241813 0.87902366 0.19978613 0.2147655 0.10227060 0.90784925
## [8,] 0.1601717 0.64273697 0.06657508 0.5863287 0.53098610 0.45310835
## [9,] 0.4380492 0.19348781 0.33947662 0.9633952 0.74328256 0.30946262
## [10,] 0.3984213 0.26445391 0.29505501 0.9335520 0.25128788 0.66389521
##      [,582]      [,583]      [,584]      [,585]      [,586]      [,587]      [
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## [1,] 0.02666138 0.8406753 0.12113471 0.03267545 0.8939531 0.15742786 0.85
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## [2,] 0.17146410 0.1789776 0.41844398 0.61733001 0.9904054 0.85702753 0.59
47438
## [3,] 0.23073074 0.2973780 0.40690358 0.47596416 0.6344343 0.05771705 0.12
16448
## [4,] 0.19271509 0.0303648 0.40991531 0.29677480 0.7866528 0.07126032 0.99
95028
## [5,] 0.88531738 0.4833984 0.43241412 0.15735144 0.7478526 0.35082540 0.78
78366
## [6,] 0.50609646 0.4866869 0.36868435 0.65018685 0.6699333 0.99280752 0.34
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## [7,] 0.27315995 0.8939765 0.08308301 0.20085320 0.5983897 0.18824964 0.89
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## [8,] 0.21682887 0.2692451 0.68723358 0.81221292 0.9952492 0.23545249 0.45
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## [9,] 0.86310993 0.7177373 0.20315741 0.97656085 0.3580069 0.75592377 0.93
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## [10,] 0.76420247 0.1556813 0.90667139 0.24826808 0.2078133 0.91097254 0.96
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##      [,589]      [,590]      [,591]      [,592]      [,593]      [,594]
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## [2,] 0.80682577 0.22950092 0.782174072 0.8556101 0.31327001 0.86395287
## [3,] 0.56614792 0.66251579 0.579579227 0.6223039 0.40684254 0.82298960
## [4,] 0.51693692 0.03807584 0.221138881 0.1881028 0.05760256 0.78037870
## [5,] 0.46184723 0.62555953 0.615890975 0.3560697 0.73258853 0.54951894
## [6,] 0.70282493 0.30949294 0.711070563 0.7046758 0.24594606 0.48337680
## [7,] 0.07241077 0.42189264 0.989058186 0.5370507 0.12613899 0.88377520
## [8,] 0.57479707 0.35740211 0.854024450 0.1239429 0.82344618 0.08299372
## [9,] 0.63157239 0.07207747 0.839952225 0.2454442 0.41691536 0.36550320
## [10,] 0.22804335 0.92707939 0.005618592 0.4310603 0.81590856 0.42548917
##      [,595]      [,596]      [,597]      [,598]      [,599]      [,600]
## [1,] 0.33149545 0.4184484 0.407098885 0.79171122 0.51459929 0.52556679
## [2,] 0.38749699 0.1737654 0.041762087 0.48615810 0.43603463 0.21915772
## [3,] 0.40138972 0.1867168 0.836048560 0.99281138 0.84299500 0.04839054

```

```

## [4,] 0.31199948 0.7138477 0.615011135 0.71380361 0.35238717 0.27173864
## [5,] 0.01663030 0.2364546 0.142867440 0.67236206 0.70877193 0.66392718
## [6,] 0.38905613 0.3415969 0.007046032 0.59858540 0.90447591 0.55611157
## [7,] 0.14104603 0.8606716 0.764060299 0.95005892 0.35969880 0.81953243
## [8,] 0.12479505 0.9149738 0.386951774 0.06365139 0.49181216 0.30557227
## [9,] 0.66106363 0.3109181 0.825988102 0.31420949 0.19778113 0.93330238
## [10,] 0.04978798 0.5184750 0.544030887 0.99277499 0.03713145 0.20807269
##      [,601]      [,602]      [,603]      [,604]      [,605]      [,606]
## [1,] 0.37057417 0.26659465 0.65558164 0.9009167 0.8411367 0.69435989
## [2,] 0.30623919 0.27355834 0.99976131 0.5255949 0.3240747 0.44735344
## [3,] 0.25514647 0.04736331 0.95515232 0.9800595 0.7241672 0.71907490
## [4,] 0.78421834 0.34858887 0.74634585 0.5323518 0.1914529 0.75300823
## [5,] 0.07580748 0.13255025 0.78688750 0.9580875 0.2110528 0.77500866
## [6,] 0.29939971 0.04742214 0.59665889 0.1557317 0.4511308 0.21627406
## [7,] 0.37101736 0.08271408 0.04153789 0.7888563 0.6462965 0.84343045
## [8,] 0.49236706 0.86556053 0.09450683 0.6388342 0.6959261 0.67827834
## [9,] 0.14836980 0.77512064 0.76379727 0.1645473 0.6841627 0.02494593
## [10,] 0.69550141 0.40181675 0.16061302 0.4025488 0.5265467 0.15335433
##      [,607]      [,608]      [,609]      [,610]      [,611]      [,612]      [
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## [1,] 0.12284824 0.73332569 0.43438871 0.5684819 0.6737719 0.4349189 0.441
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## [2,] 0.05958628 0.77548379 0.66994660 0.8519353 0.9779527 0.3728912 0.403
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## [3,] 0.77178934 0.51311747 0.88134492 0.6832268 0.4906843 0.7394154 0.635
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## [4,] 0.79073562 0.02080847 0.01773311 0.5104709 0.2109700 0.8160244 0.092
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## [5,] 0.15540586 0.34872338 0.57435187 0.1227425 0.2498677 0.5482582 0.820
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## [6,] 0.49402605 0.50875888 0.25167236 0.7062624 0.2549094 0.6408133 0.850
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## [7,] 0.58330934 0.88960274 0.19798139 0.5410981 0.1925284 0.9431444 0.931
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## [8,] 0.26696163 0.09997723 0.02253628 0.5018722 0.5044478 0.2725951 0.142
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## [9,] 0.76115647 0.13341962 0.87845972 0.2050347 0.9957410 0.8271714 0.924
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## [10,] 0.71009750 0.82848436 0.62614210 0.4338036 0.4489158 0.2358070 0.908
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##      [,614]      [,615]      [,616]      [,617]      [,618]      [,619]      [,6
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## [1,] 0.2657771 0.82847049 0.7629731 0.6784196 0.1050994 0.97102234 0.6577
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## [2,] 0.1733348 0.03753924 0.7538491 0.3312056 0.8141949 0.46702406 0.9415
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## [3,] 0.7537360 0.92055290 0.3662910 0.3503966 0.3092732 0.00506509 0.6148
500
## [4,] 0.4959340 0.53405720 0.5612674 0.5577790 0.8803592 0.49973169 0.2932
862

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```

## [5,] 0.9607465 0.33487458 0.4196645 0.1643253 0.9613667 0.71132312 0.3592
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## [6,] 0.8136587 0.01336604 0.9527055 0.1695761 0.6098911 0.29525824 0.7067
928
## [7,] 0.3674119 0.77603324 0.8968309 0.4119549 0.9280442 0.80687402 0.5518
779
## [8,] 0.7048408 0.79153901 0.3557713 0.8319128 0.5762648 0.03291834 0.2225
298
## [9,] 0.4669148 0.52384262 0.8504795 0.9990681 0.6039449 0.02039868 0.1306
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## [10,] 0.6402044 0.37121782 0.3701564 0.8751390 0.7708232 0.24380504 0.7009
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##           [,621]      [,622]      [,623]      [,624]      [,625]      [,626]
## [1,] 0.687818097 0.80597093 0.06975181 0.33792175 0.8648982 0.6879026
## [2,] 0.357152787 0.07352575 0.81486140 0.20841398 0.0340303 0.8246601
## [3,] 0.007733518 0.34610402 0.21082292 0.04312515 0.2002524 0.7080256
## [4,] 0.462098445 0.37741651 0.30713907 0.04354692 0.6523720 0.5668715
## [5,] 0.441853079 0.87041253 0.98019988 0.76432205 0.1977152 0.9070388
## [6,] 0.482863915 0.41944694 0.06358777 0.42059223 0.7555928 0.7914043
## [7,] 0.812262800 0.46698004 0.52039473 0.11917282 0.2888908 0.5227581
## [8,] 0.124632701 0.81704290 0.22711653 0.64662916 0.2515161 0.3118794
## [9,] 0.512934101 0.41650835 0.85089479 0.41472596 0.7598515 0.7786247
## [10,] 0.350505382 0.78166523 0.89072205 0.78020783 0.7659937 0.3125482
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## [2,] 0.1981061 0.82541594 0.04251271 0.7145063 0.7747510 0.88157802 0.407
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## [3,] 0.1119165 0.60000819 0.35500688 0.3300329 0.5478136 0.57649319 0.595
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## [4,] 0.9275573 0.77873273 0.28849030 0.9781764 0.2893334 0.76670653 0.174
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## [5,] 0.4729155 0.52643374 0.02910598 0.6633255 0.6064661 0.06543684 0.246
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## [6,] 0.6461185 0.95364986 0.19776720 0.8444358 0.3290249 0.78106719 0.849
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## [7,] 0.4492988 0.64478917 0.79712834 0.8148447 0.9510381 0.77301177 0.767
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## [8,] 0.6809778 0.56135667 0.10306033 0.5417993 0.5627712 0.12114945 0.155
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## [9,] 0.7013012 0.09975353 0.54069087 0.8880717 0.5335474 0.60947534 0.299
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##           [,634]      [,635]      [,636]      [,637]      [,638]      [,639]
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## [2,] 0.61455681 0.8661708 0.62407650 0.71913933 0.60491213 0.65002613
## [3,] 0.23328430 0.9509187 0.90135642 0.54968147 0.78985774 0.03246212
## [4,] 0.70460608 0.8929074 0.45488894 0.65728486 0.12631195 0.80867579

```

```

## [5,] 0.22945689 0.1633207 0.60228036 0.05967957 0.82404609 0.03728181
## [6,] 0.37005003 0.3794576 0.58563051 0.28772503 0.07117454 0.68605269
## [7,] 0.73499507 0.1824222 0.27493441 0.54191502 0.31059497 0.61268665
## [8,] 0.05030095 0.2955453 0.78350849 0.69764773 0.88533260 0.36656843
## [9,] 0.86644617 0.8688440 0.76362286 0.90705023 0.81837760 0.38278858
## [10,] 0.77972011 0.2651446 0.33283290 0.98872723 0.99610927 0.64112834
##      [,640]      [,641]      [,642]      [,643]      [,644]      [,645]
## [1,] 0.04292649 0.4578174 0.93969058 0.71123905 0.95253843 0.652677401
## [2,] 0.02104166 0.2012870 0.08429659 0.01476866 0.58137681 0.171390450
## [3,] 0.21298300 0.3958312 0.26643903 0.02381664 0.92867791 0.783252573
## [4,] 0.73829761 0.1482564 0.62104269 0.92981438 0.01595842 0.417317097
## [5,] 0.29941004 0.9712689 0.47077405 0.62469954 0.47162778 0.911801231
## [6,] 0.25793402 0.8320140 0.46582861 0.46075785 0.40188985 0.005058487
## [7,] 0.18504890 0.6837975 0.47633009 0.56359370 0.84105657 0.364263328
## [8,] 0.87281911 0.5709338 0.28633852 0.56867232 0.45035074 0.831936209
## [9,] 0.30207606 0.8452665 0.38702924 0.44277918 0.35157530 0.350111727
## [10,] 0.10677607 0.7576236 0.10617756 0.34877704 0.22704624 0.418456360
##      [,646]      [,647]      [,648]      [,649]      [,650]      [,651]      [,6
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## [1,] 0.4256764 0.2149481 0.37384705 0.8191505 0.3335840 0.0969024 0.38182
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## [2,] 0.8790058 0.5470362 0.76014273 0.8982924 0.8869483 0.2961580 0.08998
474
## [3,] 0.6003682 0.3921272 0.06763474 0.9278361 0.5758829 0.9756422 0.72577
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## [4,] 0.3677793 0.4413299 0.82249905 0.3337468 0.8872455 0.2615945 0.32172
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## [5,] 0.7532870 0.1010391 0.76834321 0.4318127 0.1895544 0.5969600 0.04785
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## [6,] 0.9087803 0.4357060 0.11564873 0.9550223 0.5752114 0.5421339 0.49198
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## [7,] 0.2277866 0.5932604 0.59710581 0.5313351 0.1352126 0.9432111 0.99481
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## [8,] 0.2530445 0.6966029 0.04859360 0.2491487 0.7388696 0.8225793 0.19945
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## [9,] 0.6495865 0.1436539 0.62283328 0.7254041 0.1265831 0.8066519 0.55712
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## [1,] 0.64661205 0.22758927 0.5777918 0.3145268 0.8509581 0.04049942 0.227
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## [2,] 0.24503924 0.75730906 0.6894917 0.3680017 0.7187837 0.78359349 0.689
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## [3,] 0.77359859 0.05775361 0.4250467 0.9536653 0.2775755 0.66275602 0.293
0241
## [4,] 0.38756739 0.61985791 0.7543810 0.5681149 0.8994705 0.09831588 0.510
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## [5,] 0.30009843 0.47133415 0.4751515 0.9138074 0.5551896 0.06452279 0.781

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8896

[6,] 0.98242222 0.58254314 0.1463666 0.1206795 0.4332241 0.52136626 0.6671063

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[3,] 0.77597115 0.37396712 0.68831761 0.77827889 0.89774415 0.78838674

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[5,] 0.99610439 0.67240932 0.02536321 0.05018848 0.96065378 0.42421556

[6,] 0.58496908 0.73044223 0.06797381 0.20800728 0.16836738 0.98454785

[7,] 0.64262252 0.71395095 0.14919054 0.07460159 0.78841881 0.61206313

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[9,] 0.21343023 0.06520248 0.2073810 0.97740997 0.1797464 0.77887136

[10,] 0.88360653 0.25591884 0.9453819 0.10955662 0.1533133 0.08958594

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[3,] 0.53107108 0.980505929 0.3407535 0.61912547 0.2359789 0.77516480

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[5,] 0.05526015 0.410612934 0.6058538 0.06939012 0.4321977 0.56129050

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[3,] 0.16050190 0.6765372 0.37952751 0.60933485 0.08475843 0.72615496

[4,] 0.88110441 0.4411115 0.21163694 0.05431038 0.70592929 0.74440798

[5,] 0.84529040 0.1079167 0.31046166 0.74245850 0.99024404 0.95634792


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## [6,] 0.55338164 0.9010746 0.04381065 0.43495914 0.42076164 0.70561645
## [7,] 0.62710299 0.3241485 0.73981871 0.85734328 0.62661718 0.14227267
## [8,] 0.95197234 0.7341568 0.96117018 0.96988036 0.22959930 0.05664678
## [9,] 0.75592735 0.3492936 0.80546231 0.62910402 0.78377109 0.39785809
## [10,] 0.54733301 0.6325528 0.47257421 0.24423562 0.69378262 0.78669979
##      [,684]      [,685]      [,686]      [,687]      [,688]      [,689]
## [1,] 0.87407267 0.3545593407 0.64736019 0.87011150 0.7073461 0.327655547
## [2,] 0.87631116 0.6542699845 0.28938908 0.66360717 0.6630224 0.005511171
## [3,] 0.98632487 0.4722780602 0.49091528 0.88189824 0.2791176 0.081751504
## [4,] 0.29698120 0.0209429171 0.04161759 0.63562800 0.0986035 0.859925044
## [5,] 0.28986192 0.9901419862 0.66094093 0.08675562 0.6799170 0.028322095
## [6,] 0.14633755 0.4388368337 0.19430992 0.48037179 0.2238766 0.524143295
## [7,] 0.06743318 0.8209726466 0.25375388 0.95561268 0.7542186 0.415328509
## [8,] 0.52859190 0.2297784768 0.11367481 0.49209918 0.1665687 0.389630841
## [9,] 0.07995077 0.2830771985 0.69377829 0.46978594 0.1622315 0.317469343
## [10,] 0.16117027 0.0006649112 0.34833911 0.29760155 0.2850274 0.961972963
##      [,690]      [,691]      [,692]      [,693]      [,694]      [,695]
## [1,] 0.3886681 0.34515476 0.23216234 0.46855445 0.86908341 0.5841719
## [2,] 0.7550417 0.73751846 0.02445755 0.23568557 0.13789907 0.6294100
## [3,] 0.1468013 0.86601649 0.72574980 0.75111523 0.86617024 0.4138707
## [4,] 0.6323721 0.70240500 0.32202823 0.23174232 0.65964676 0.5651440
## [5,] 0.1668149 0.08052723 0.81780429 0.25579929 0.98384961 0.7065932
## [6,] 0.7006802 0.46631517 0.62271147 0.62964140 0.53115404 0.1204821
## [7,] 0.3900649 0.03261967 0.49273751 0.37080030 0.54270208 0.9069889
## [8,] 0.8277460 0.72373917 0.12980124 0.17248544 0.45387073 0.3944966
## [9,] 0.1322284 0.37003934 0.96110607 0.09096181 0.90288720 0.2840234
## [10,] 0.3722086 0.29943463 0.35618427 0.05621976 0.01866931 0.8620646
##      [,696]      [,697]      [,698]      [,699]      [,700]      [,701]
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## [2,] 0.706808841 0.9679890 0.31280763 0.68134412 0.15342989 0.8077565
## [3,] 0.195151138 0.2758808 0.50989177 0.06434253 0.19906241 0.3059186
## [4,] 0.719476803 0.3657982 0.99415340 0.51704124 0.14826570 0.6822436
## [5,] 0.601163600 0.1484090 0.98430251 0.66064924 0.29734046 0.5697026
## [6,] 0.030242628 0.4043461 0.09113198 0.31384249 0.50766610 0.9533934
## [7,] 0.587547639 0.7813298 0.65937733 0.52673693 0.89277483 0.2085304
## [8,] 0.108329987 0.8538065 0.41901151 0.32443524 0.70208906 0.4832616
## [9,] 0.002277681 0.9062411 0.31976779 0.35677799 0.95119328 0.1258354
## [10,] 0.952501364 0.6822934 0.50627416 0.31738033 0.60390698 0.9055287
##      [,702]      [,703]      [,704]      [,705]      [,706]      [,707]      [
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## [2,] 0.2382114 0.9097160 0.7066044 0.36206119 0.54187437 0.45332369 0.488
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## [3,] 0.5932909 0.3773000 0.7448333 0.85144558 0.57288277 0.61541562 0.572
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## [4,] 0.7495660 0.9140997 0.3280257 0.54366849 0.77727116 0.68057922 0.020
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## [5,] 0.1965529 0.3872801 0.7347193 0.04703026 0.03287233 0.77627554 0.505
06963

```

```

## [6,] 0.2876025 0.8065896 0.4320021 0.05575426 0.65539672 0.99242420 0.882
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## [7,] 0.4633001 0.4366493 0.5171299 0.49850194 0.25538416 0.92578922 0.906
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## [8,] 0.2989329 0.1803071 0.5342432 0.12776019 0.28004601 0.09032078 0.352
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## [9,] 0.8900619 0.4922323 0.1174112 0.26640657 0.22551979 0.42061392 0.802
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## [10,] 0.6382295 0.8453812 0.9886763 0.69505580 0.60661976 0.15810123 0.924
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##      [,709]      [,710]      [,711]      [,712]      [,713]      [,714]
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## [2,] 0.9399401 0.56928972 0.40973907 0.2969133 0.4597341 0.935702000
## [3,] 0.2878723 0.13679333 0.11371446 0.6715774 0.1750765 0.799483414
## [4,] 0.6269002 0.37473560 0.24381290 0.3176208 0.7123890 0.850097259
## [5,] 0.1923882 0.15766197 0.17605306 0.6306539 0.3753614 0.071084874
## [6,] 0.3964253 0.73809280 0.24484304 0.4672314 0.5445379 0.009185116
## [7,] 0.6497661 0.68565728 0.84070976 0.1773808 0.5127438 0.055314601
## [8,] 0.2262504 0.04543406 0.19844084 0.5543188 0.4233529 0.639792327
## [9,] 0.2773309 0.20554272 0.77268667 0.9869635 0.6611180 0.213804911
## [10,] 0.4764076 0.43229522 0.03628262 0.1686072 0.8215125 0.914176036
##      [,715]      [,716]      [,717]      [,718]      [,719]      [,720]
## [1,] 0.09181913 0.73200697 0.37310207 0.322891109 0.1898892 0.84999673
## [2,] 0.78433804 0.10299971 0.29883233 0.200746261 0.6943955 0.37680744
## [3,] 0.79012712 0.35591380 0.66630734 0.984207750 0.6317677 0.06919524
## [4,] 0.40325354 0.62172569 0.11568803 0.388882378 0.8057782 0.66309254
## [5,] 0.36281883 0.08191077 0.75988410 0.770258872 0.5280235 0.82706616
## [6,] 0.49206719 0.77544572 0.18029196 0.845109083 0.1183336 0.05472828
## [7,] 0.28168367 0.24401977 0.43439505 0.249767391 0.4451166 0.80101817
## [8,] 0.80023555 0.16529510 0.98498694 0.005471148 0.2000954 0.56374670
## [9,] 0.33594477 0.56120015 0.08273182 0.498965517 0.3535970 0.73695772
## [10,] 0.77524857 0.60979903 0.13051570 0.330303170 0.5602323 0.12509624
##      [,721]      [,722]      [,723]      [,724]      [,725]      [,726]      [,
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## [2,] 0.31616099 0.37198772 0.4767899 0.7046023 0.80322092 0.2769664 0.807
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## [3,] 0.96126215 0.74784405 0.9521277 0.2483915 0.82605122 0.6688026 0.901
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## [4,] 0.09003387 0.49105047 0.6254917 0.5916460 0.02701175 0.4709268 0.158
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## [5,] 0.24402778 0.51755567 0.2946668 0.5923383 0.05819920 0.6055539 0.612
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## [6,] 0.39302837 0.95650973 0.8367991 0.6028936 0.73798291 0.3323901 0.561
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## [7,] 0.90700577 0.48837174 0.9076573 0.9653493 0.80252828 0.7173064 0.572
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## [8,] 0.99652474 0.07436544 0.9546571 0.3427218 0.54393565 0.7542691 0.760
8964

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## [9,] 0.55197058 0.04150621 0.4268868 0.0339125 0.12237776 0.7731379 0.116
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## [10,] 0.28377269 0.30227493 0.4632228 0.9030562 0.18257938 0.4512390 0.146
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##          [,728]      [,729]      [,730]      [,731]      [,732]      [,733]
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## [5,] 0.5843627 0.05501779 0.919328679 0.66952937 0.43434328 0.3666597
## [6,] 0.2596696 0.99895081 0.149195029 0.62868542 0.55351338 0.6665036
## [7,] 0.2317804 0.77693930 0.874334798 0.45142637 0.49816484 0.4616402
## [8,] 0.1654732 0.27716496 0.371066339 0.76902781 0.70585668 0.1627255
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## [10,] 0.7789080 0.91187351 0.357117040 0.03779106 0.43392955 0.2251154
##          [,734]      [,735]      [,736]      [,737]      [,738]      [,739]      [
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## [3,] 0.4799215 0.01710850 0.054963857 0.28673687 0.6453881 0.1979132 0.68
04750
## [4,] 0.9391689 0.58420148 0.388135382 0.92290852 0.2268679 0.8441741 0.47
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## [5,] 0.6144216 0.48915190 0.005655432 0.49420951 0.4261190 0.7433006 0.53
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## [6,] 0.5190191 0.70301585 0.351004543 0.57749281 0.2348713 0.1704455 0.60
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## [7,] 0.1122723 0.13867311 0.276803548 0.39652710 0.1323561 0.5613784 0.21
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## [8,] 0.6911865 0.91663304 0.460292843 0.62946179 0.2822965 0.3750251 0.80
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## [9,] 0.8677874 0.52633022 0.504537122 0.04428874 0.4991019 0.7944875 0.60
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## [9,] 0.40166964 0.37968215 0.40256341 0.91064759 0.6863603 0.9097647
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## [1,] 0.817539669 0.42327906 0.9123379 0.1391055 0.82225185 0.7892203 0.11
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## [2,] 0.801293211 0.65119133 0.5822002 0.6695573 0.97167979 0.7401730 0.88
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## [5,] 0.193770366 0.47189963 0.6750641 0.3249873 0.76239367 0.9465011 0.43
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## [6,] 0.301188780 0.51961741 0.7090441 0.6558524 0.58895203 0.1826958 0.68
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## [7,] 0.848971064 0.50810742 0.5509912 0.1618450 0.73687934 0.2783735 0.13
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## [5,] 0.250332630 0.6186278865 0.58205569 0.6083283 0.187693337 0.03320998
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## [7,] 0.911524762 0.0001863542 0.81041578 0.4785791 0.817997396 0.67770639

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## [8,] 0.982715646 0.0344894198 0.65684703 0.5824374 0.772534678 0.92176204
## [9,] 0.589764015 0.7607736904 0.57779506 0.1202265 0.302698900 0.84246433
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## [3,] 0.21065378 0.14876312 0.68035542 0.70641844 0.07654814 0.990180419
## [4,] 0.09476574 0.03925476 0.96639891 0.99050241 0.37248842 0.501262171
## [5,] 0.34583416 0.26144394 0.82544168 0.78310388 0.76386005 0.006984079
## [6,] 0.28749172 0.13749542 0.01054037 0.22716826 0.87103867 0.369410580
## [7,] 0.32593508 0.85330700 0.25035748 0.31845372 0.12013097 0.212534561
## [8,] 0.45525905 0.83262481 0.10574197 0.70202851 0.11087963 0.994798976
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## [7,] 0.75235837 0.8884864 0.661038290 0.4047602 0.020094979 0.12369037
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## [2,] 0.56253721 0.26196948 0.1725929 0.10491636 0.4815872 0.9937809 0.101
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## [3,] 0.35923574 0.40080596 0.6722593 0.64104667 0.9267151 0.5942911 0.157
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## [4,] 0.09047153 0.09594887 0.2705044 0.67231192 0.1909632 0.9713334 0.551
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2473

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```
## [7,] 0.89115320 0.28830073 0.2198493 0.63543301 0.4676583 0.2319000 0.670
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## [8,] 0.06901356 0.57161653 0.4631689 0.98524186 0.7424978 0.8498529 0.434
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## [9,] 0.10593930 0.53275493 0.7589041 0.23443850 0.3576675 0.8658847 0.158
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## [6,] 0.7571823 0.44143580 0.97501752 0.8760825 0.8294996 0.75340715 0.250
9902
## [7,] 0.6564829 0.78502636 0.08378766 0.5510481 0.7493454 0.58700671 0.912
7704
## [8,] 0.6074895 0.56588454 0.04347373 0.8920594 0.1379145 0.26243456 0.998
2314
## [9,] 0.5793846 0.57455674 0.13675486 0.5162601 0.7278585 0.88465315 0.154
4590
## [10,] 0.8857147 0.03603597 0.93347630 0.9220278 0.2867371 0.82673147 0.333
2242
##          [,799]      [,800]      [,801]      [,802]      [,803]      [,804]      [,80
5]
## [1,] 0.1001519 0.8652706 0.8682562 0.7021141 0.97380326 0.5013832 0.25741
53
## [2,] 0.3882741 0.5140120 0.4383305 0.2704930 0.41478513 0.3548402 0.61128
58
## [3,] 0.3041619 0.7620878 0.2346914 0.8486789 0.80359808 0.9715254 0.20788
02
## [4,] 0.4671374 0.9210379 0.6682065 0.6696128 0.65275676 0.8376985 0.67638
34
## [5,] 0.2767840 0.7398041 0.8163457 0.4472747 0.71198763 0.1385221 0.67024
39
## [6,] 0.1856873 0.2689785 0.5862035 0.7546415 0.08241292 0.2769285 0.34700
69
## [7,] 0.2594751 0.6379195 0.8639224 0.3538291 0.90689374 0.3182252 0.60953
40
## [8,] 0.9939956 0.3996868 0.5966110 0.7193325 0.22684398 0.6208597 0.60064
17
## [9,] 0.1635059 0.3476726 0.4056877 0.2343942 0.54391563 0.3512401 0.91011
64
```

```

## [10,] 0.8394730 0.4592272 0.9254990 0.8739417 0.65012035 0.6313770 0.18118
94
##      [,806]      [,807]      [,808]      [,809]      [,810]      [,811]
## [1,] 0.2179336 0.50864862 0.58479106 0.41742513 0.95175125 0.06621920
## [2,] 0.6867932 0.28814685 0.88696631 0.21453901 0.55021611 0.31009665
## [3,] 0.6806441 0.75151362 0.53289282 0.30406674 0.92628504 0.01633717
## [4,] 0.3661154 0.10784655 0.70335488 0.33121276 0.04552702 0.62138985
## [5,] 0.5105398 0.04817627 0.94118170 0.74509454 0.71814184 0.06329673
## [6,] 0.9623351 0.65425971 0.00367953 0.37603444 0.94772883 0.66377954
## [7,] 0.1001482 0.08788314 0.03450603 0.74218465 0.61736959 0.90803504
## [8,] 0.7363381 0.66855265 0.52005715 0.39880282 0.80878053 0.74714744
## [9,] 0.3730644 0.00336994 0.55520947 0.03134603 0.50825864 0.59853785
## [10,] 0.8502623 0.89354892 0.12159956 0.26313921 0.41902957 0.10459388
##      [,812]      [,813]      [,814]      [,815]      [,816]      [,817]      [,
818]
## [1,] 0.1195774 0.23034271 0.5364998 0.33221679 0.6235101 0.49584725 0.788
0339
## [2,] 0.3841185 0.94038123 0.3665013 0.26412387 0.5011692 0.98592979 0.178
0369
## [3,] 0.4431279 0.99766021 0.8003463 0.88062510 0.5930762 0.36915906 0.373
9752
## [4,] 0.8195283 0.98984567 0.9104950 0.90624924 0.2686284 0.20454154 0.428
8702
## [5,] 0.1767424 0.20427548 0.3053257 0.09339622 0.3558037 0.64637517 0.305
6552
## [6,] 0.5833966 0.06582558 0.9014367 0.04742365 0.6169146 0.69592565 0.893
1733
## [7,] 0.0519115 0.62547599 0.1271830 0.43512256 0.7900040 0.46177826 0.621
5130
## [8,] 0.9809166 0.26508872 0.2439588 0.71806402 0.1505250 0.02793843 0.181
5275
## [9,] 0.9074575 0.16107946 0.5511782 0.86852130 0.9603956 0.73576030 0.235
7653
## [10,] 0.9679404 0.60401979 0.3830012 0.67181623 0.1343503 0.73357847 0.862
7012
##      [,819]      [,820]      [,821]      [,822]      [,823]      [,824]
## [1,] 0.3419465 0.27988038 0.7336534 0.940497145 0.04248797 0.76679997
## [2,] 0.5699829 0.16174507 0.4920627 0.083728674 0.38039540 0.90730314
## [3,] 0.2504908 0.03967881 0.2213935 0.400576649 0.25619597 0.43649734
## [4,] 0.2927705 0.87751370 0.1986412 0.007268694 0.85250839 0.25196860
## [5,] 0.6179570 0.93668271 0.8576735 0.899591197 0.97225716 0.85351636
## [6,] 0.4589084 0.92590151 0.5693328 0.239808445 0.16921048 0.83578559
## [7,] 0.4324787 0.67474827 0.9366092 0.897944053 0.32268033 0.33395936
## [8,] 0.9852189 0.47984079 0.9469920 0.601823182 0.98052646 0.01881536
## [9,] 0.6301623 0.14380415 0.9129999 0.454720980 0.80635109 0.35462347
## [10,] 0.7408096 0.69383284 0.9939913 0.950119544 0.40882886 0.99479507
##      [,825]      [,826]      [,827]      [,828]      [,829]      [,830]
## [1,] 0.1166583 0.97985451 0.29593704 0.9509098 0.4627806 0.02607442
## [2,] 0.6913205 0.44705163 0.92616594 0.6208266 0.6619870 0.12326752
## [3,] 0.3994045 0.35104794 0.63917102 0.8610534 0.4807891 0.17618547

```

```

## [4,] 0.2706759 0.37089268 0.29019503 0.4426239 0.9317300 0.94830292
## [5,] 0.1013607 0.69881211 0.70515926 0.3778591 0.7264438 0.39681202
## [6,] 0.9440226 0.66591131 0.02576783 0.2643310 0.6337254 0.08197501
## [7,] 0.3434897 0.87838214 0.36146828 0.3681135 0.5847944 0.23451928
## [8,] 0.5897919 0.06772186 0.39420916 0.2962962 0.8793108 0.74363027
## [9,] 0.2428507 0.70503043 0.15814531 0.5323003 0.2009330 0.53046480
## [10,] 0.9768612 0.93340596 0.22322491 0.1717998 0.6041458 0.76800498
##           [,831]      [,832]      [,833]      [,834]      [,835]      [,836]
## [1,] 0.581661259 0.137511784 0.30481745 0.28822361 0.2085277 0.3029357
## [2,] 0.890081535 0.557392619 0.72839118 0.02275336 0.8310048 0.2164052
## [3,] 0.724538353 0.569837385 0.21994585 0.83011698 0.7795442 0.9230063
## [4,] 0.028307922 0.455383455 0.65067846 0.74515876 0.8339935 0.8067026
## [5,] 0.516215683 0.946551474 0.27902514 0.72496019 0.7903202 0.5205640
## [6,] 0.715302292 0.369080188 0.04563126 0.40805720 0.2382070 0.6975041
## [7,] 0.005264425 0.002055249 0.68123490 0.76831507 0.7780421 0.7622577
## [8,] 0.853620760 0.700693597 0.92105271 0.14070235 0.3494153 0.5350327
## [9,] 0.049478519 0.340685043 0.58037847 0.81275016 0.5124389 0.9388346
## [10,] 0.893879706 0.352784435 0.31646613 0.50814551 0.5613076 0.3697048
##           [,837]      [,838]      [,839]      [,840]      [,841]      [,842]
## [1,] 0.21002743 0.56805745 0.80065240 0.75914562 0.79244875 0.7545842
## [2,] 0.77766236 0.10760732 0.30485704 0.38623202 0.46185455 0.1797251
## [3,] 0.66596099 0.38306036 0.61094493 0.16786974 0.27619022 0.9112220
## [4,] 0.41692240 0.76723913 0.81027712 0.74257664 0.46494436 0.9178602
## [5,] 0.55670938 0.01358438 0.56266311 0.47885797 0.13223350 0.2571518
## [6,] 0.44620363 0.26726537 0.72364911 0.89048148 0.08784383 0.4662901
## [7,] 0.06945008 0.17623931 0.02315529 0.89547217 0.34090272 0.3725284
## [8,] 0.07753149 0.64448900 0.71809671 0.08585271 0.05521249 0.1707232
## [9,] 0.87404525 0.13757043 0.89715951 0.13057394 0.53848675 0.2279555
## [10,] 0.10685002 0.19453173 0.42782149 0.85285091 0.18515080 0.5737533
##           [,843]      [,844]      [,845]      [,846]      [,847]      [,848]
## [1,] 0.33762407 0.55086721 0.74495256 0.88421418 0.7257764 0.7479278
## [2,] 0.23865430 0.08826816 0.56031446 0.19056220 0.8787829 0.1804101
## [3,] 0.70472004 0.50811706 0.07721566 0.44890172 0.1514339 0.2933130
## [4,] 0.34889423 0.79952244 0.21246930 0.48447338 0.6263492 0.1593566
## [5,] 0.64949334 0.75621271 0.02305822 0.53384642 0.6173871 0.3515219
## [6,] 0.45368460 0.95849752 0.74150471 0.41672345 0.6162812 0.9404841
## [7,] 0.08131992 0.74504728 0.94574385 0.63496776 0.2180327 0.8384754
## [8,] 0.59077288 0.01277321 0.72142177 0.65825988 0.2484385 0.1843881
## [9,] 0.92572665 0.41470186 0.03737932 0.40955482 0.3127818 0.2393725
## [10,] 0.23761358 0.81793382 0.37871228 0.07474611 0.7565797 0.4297301
##           [,849]      [,850]      [,851]      [,852]      [,853]      [,854]
## [1,] 0.03023197 0.8741801202 0.8492817 0.98304455 0.6511437 0.44062892
## [2,] 0.34330640 0.6714233924 0.5018244 0.90640761 0.7771931 0.57555751
## [3,] 0.75328919 0.5700857725 0.4258433 0.55973623 0.4669370 0.51792825
## [4,] 0.47393212 0.5665153586 0.3472717 0.48408500 0.3729817 0.95159179
## [5,] 0.96976378 0.0463863763 0.5544489 0.16905165 0.5234172 0.68055968
## [6,] 0.13465025 0.1640697175 0.8120142 0.65673037 0.1637526 0.37642588
## [7,] 0.66003462 0.0002669243 0.6116124 0.50203970 0.3145935 0.53456515
## [8,] 0.35513143 0.4307445670 0.1082893 0.32964474 0.8927571 0.76825921
## [9,] 0.80322299 0.6656682175 0.7539998 0.59011029 0.7315177 0.04066325

```



```

## [10,] 0.86754431 0.7718075635 0.4444540 0.04678204 0.5633719 0.71923875
##      [,855]      [,856]      [,857]      [,858]      [,859]      [,860]
## [1,] 0.65622774 0.28032433 0.11186004 0.11540721 0.1828527 0.09436949
## [2,] 0.06100546 0.27888681 0.09966631 0.02572686 0.9489927 0.38523738
## [3,] 0.50437769 0.90671987 0.17109063 0.02803152 0.9887322 0.95789883
## [4,] 0.53148223 0.69908448 0.07526345 0.23699582 0.8180651 0.49759477
## [5,] 0.94384611 0.04088281 0.52988483 0.87560894 0.9459006 0.32621813
## [6,] 0.89913421 0.35412019 0.64311498 0.20605698 0.2166748 0.58673672
## [7,] 0.59795950 0.60265071 0.84645705 0.39862556 0.2836715 0.13908669
## [8,] 0.39761696 0.99684969 0.46181706 0.75123081 0.6169574 0.08274760
## [9,] 0.82570743 0.50717277 0.24467948 0.70207244 0.6178386 0.14965601
## [10,] 0.26477041 0.83815171 0.60524156 0.86274492 0.5113227 0.96681952
##      [,861]      [,862]      [,863]      [,864]      [,865]      [,866]
## [1,] 0.19131168 0.7104080 0.49460738 0.0124778 0.512736911 0.49001882
## [2,] 0.44026106 0.1349292 0.87835906 0.6365040 0.721592428 0.96260103
## [3,] 0.46052885 0.9532628 0.73155979 0.6906078 0.330096773 0.96366153
## [4,] 0.58620521 0.6661779 0.45631196 0.7533048 0.790204729 0.52599371
## [5,] 0.64705042 0.5706599 0.89739785 0.9700442 0.355310190 0.18171214
## [6,] 0.33584615 0.8358267 0.04838978 0.3566459 0.425132011 0.83207788
## [7,] 0.07337617 0.4250159 0.51089711 0.1269585 0.684023198 0.24439080
## [8,] 0.37938262 0.9078343 0.48169517 0.4116369 0.300114083 0.48838793
## [9,] 0.18112571 0.8150385 0.88214169 0.2532725 0.802219225 0.07994411
## [10,] 0.05202945 0.2772299 0.57091802 0.7380881 0.003532891 0.86109992
##      [,867]      [,868]      [,869]      [,870]      [,871]      [,872]
## [1,] 0.77959883 0.5399456 0.2329348 0.0620685 0.966974134 0.24244169
## [2,] 0.05948740 0.3693203 0.8882400 0.1282752 0.058673864 0.04594423
## [3,] 0.58262725 0.7882342 0.8905077 0.1687391 0.945261329 0.37177207
## [4,] 0.15237224 0.5936223 0.3571945 0.5529706 0.780397211 0.81724495
## [5,] 0.46042569 0.7483115 0.4450870 0.7617060 0.738894898 0.17689508
## [6,] 0.78188282 0.7996107 0.8406534 0.5044424 0.404844830 0.11399569
## [7,] 0.53892831 0.4588314 0.8049677 0.8909117 0.614126912 0.88654280
## [8,] 0.35054617 0.2786636 0.8408375 0.6100102 0.599060886 0.20868218
## [9,] 0.24946355 0.9683325 0.6348359 0.2461386 0.505543828 0.29235483
## [10,] 0.09284771 0.8443810 0.5250819 0.1268367 0.005216944 0.61255357
##      [,873]      [,874]      [,875]      [,876]      [,877]      [,878]
## [1,] 0.22879327 0.14540424 0.50765697 0.3092078 0.3346553 0.07175815
## [2,] 0.27550292 0.69803424 0.51193065 0.9950588 0.4740006 0.23731369
## [3,] 0.38197260 0.30568501 0.83699082 0.8088204 0.1719832 0.23712956
## [4,] 0.34150853 0.60977735 0.01138068 0.6583557 0.4058832 0.53003653
## [5,] 0.08565998 0.39673002 0.93190553 0.5071275 0.9334557 0.72982020
## [6,] 0.01863378 0.01665553 0.14289122 0.5328019 0.5613222 0.08650845
## [7,] 0.07619706 0.53635805 0.83887980 0.2120382 0.6280990 0.30677670
## [8,] 0.97879743 0.76277657 0.67742873 0.7075691 0.5123080 0.46572372
## [9,] 0.22842272 0.08911949 0.71962152 0.8965971 0.3158153 0.02959476
## [10,] 0.63756145 0.34993567 0.39836333 0.8975930 0.7053206 0.17388631
##      [,879]      [,880]      [,881]      [,882]      [,883]      [,884]
## [1,] 0.66811983 0.91740371 0.1991206 0.03664807 0.01818909 0.87114687
## [2,] 0.06587275 0.40203946 0.5794929 0.80988982 0.95460221 0.74662481
## [3,] 0.85775750 0.74967797 0.1288847 0.13764415 0.90290145 0.14909429
## [4,] 0.87087741 0.87470689 0.5859999 0.17417188 0.83819052 0.58420859

```

```

## [5,] 0.52822075 0.48721048 0.2739499 0.91988500 0.63886313 0.11498923
## [6,] 0.27527425 0.46149276 0.9495212 0.66082454 0.64642944 0.96994143
## [7,] 0.11298009 0.04111277 0.9725314 0.43726244 0.46556516 0.53866213
## [8,] 0.65940038 0.23515056 0.7278039 0.82224795 0.91973440 0.43285263
## [9,] 0.43780953 0.98864002 0.8325362 0.64877265 0.56646671 0.47650203
## [10,] 0.15943762 0.92548060 0.3441220 0.95495569 0.99790442 0.06675445
##      [,885]      [,886]      [,887]      [,888]      [,889]      [,890]      [,8
91]
## [1,] 0.71492821 0.2920564 0.6421474 0.2475577 0.6036152 0.4952843 0.43175
762
## [2,] 0.62739711 0.6521174 0.6063632 0.9772247 0.8533505 0.5294504 0.13963
599
## [3,] 0.85319241 0.4742732 0.4949262 0.8257254 0.3417212 0.6457981 0.68183
260
## [4,] 0.71155470 0.9456517 0.6735071 0.4892581 0.6279521 0.7831075 0.44247
290
## [5,] 0.05120123 0.7210396 0.9653571 0.3311273 0.1400924 0.6819385 0.06161
666
## [6,] 0.85820281 0.5164430 0.1800667 0.5564039 0.9188629 0.8988023 0.78301
671
## [7,] 0.77984931 0.9990469 0.5014693 0.2859438 0.6741041 0.6684814 0.30025
438
## [8,] 0.75196067 0.5138745 0.4050475 0.9483771 0.9691876 0.6799764 0.73315
504
## [9,] 0.48606405 0.8234388 0.2623188 0.6181779 0.2526759 0.7737670 0.65944
646
## [10,] 0.24837209 0.2516482 0.6721938 0.4457480 0.9851950 0.1147935 0.85907
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##      [,892]      [,893]      [,894]      [,895]      [,896]      [,897]
## [1,] 0.81301897 0.46416929 0.41787660 0.02395936 0.1375294 0.64715577
## [2,] 0.62315205 0.69723884 0.37754010 0.10786132 0.9006487 0.76533538
## [3,] 0.08062769 0.60991074 0.87274158 0.14483547 0.1739483 0.83785014
## [4,] 0.56578937 0.33155045 0.07860902 0.96375263 0.1429847 0.33735574
## [5,] 0.26603790 0.71460832 0.50642724 0.78944647 0.1893232 0.09376968
## [6,] 0.79869602 0.92270414 0.68365230 0.71168061 0.7388508 0.37094762
## [7,] 0.54360796 0.32915590 0.80141765 0.23644838 0.5440327 0.37013202
## [8,] 0.33327282 0.92954090 0.56822215 0.14202698 0.6353265 0.09916039
## [9,] 0.02981483 0.98799951 0.97406789 0.17564557 0.9780445 0.11552871
## [10,] 0.88213253 0.09966705 0.52840727 0.63602097 0.8397296 0.32960786
##      [,898]      [,899]      [,900]      [,901]      [,902]      [,903]
## [1,] 0.07807932 0.2620143 0.21102055 0.76005208 0.37703995 0.47732642
## [2,] 0.38728753 0.5065500 0.49658437 0.24080772 0.26481671 0.97468345
## [3,] 0.05434798 0.8002793 0.95184264 0.39977878 0.61399000 0.70446986
## [4,] 0.05385696 0.2178836 0.88783583 0.91630059 0.09664946 0.50718353
## [5,] 0.14650482 0.8241010 0.02450613 0.42094935 0.62035106 0.09388379
## [6,] 0.06149653 0.9418153 0.46468041 0.78478009 0.77948453 0.84078563
## [7,] 0.50536726 0.5260421 0.82573993 0.79326320 0.62563415 0.17149976
## [8,] 0.30963059 0.3986564 0.69728846 0.03917634 0.66036393 0.74520182
## [9,] 0.33030776 0.6251344 0.69697652 0.54676891 0.07244107 0.73871684
## [10,] 0.78029666 0.2596883 0.38786396 0.79441969 0.14583369 0.08935045

```

```

##          [,904]      [,905]      [,906]      [,907]      [,908]      [,909]
## [1,] 0.77252394 0.07220038 0.304188353 0.48292514 0.7289423 0.84552061
## [2,] 0.18234948 0.18243711 0.803993892 0.04131771 0.3235972 0.31736409
## [3,] 0.58393313 0.37159797 0.689589972 0.78402784 0.8453963 0.14873531
## [4,] 0.42736376 0.87879621 0.630037304 0.12670359 0.6075146 0.31011889
## [5,] 0.15610397 0.07956434 0.878455429 0.70533222 0.8284704 0.53346929
## [6,] 0.17223281 0.54438513 0.628713192 0.11851935 0.6821818 0.09035432
## [7,] 0.14058942 0.69882314 0.138382130 0.65571849 0.3349445 0.41711367
## [8,] 0.52144583 0.53976539 0.464468945 0.06261084 0.3598950 0.10664559
## [9,] 0.01003081 0.42224004 0.546895177 0.30291376 0.2120561 0.54341752
## [10,] 0.85276359 0.49365500 0.005025267 0.55812389 0.4093301 0.38754617
##          [,910]      [,911]      [,912]      [,913]      [,914]      [,915]
## [1,] 0.008819294 0.35824982 0.75715212 0.9054513 0.4930575 0.57346564
## [2,] 0.324983415 0.80432364 0.81794966 0.3353164 0.6617976 0.36527451
## [3,] 0.129990120 0.77014082 0.08611584 0.1749745 0.5524504 0.83442127
## [4,] 0.412011660 0.63884684 0.64061528 0.4942966 0.5975927 0.13103671
## [5,] 0.874775115 0.64864075 0.63604956 0.5004721 0.6560359 0.63815206
## [6,] 0.027022317 0.06598414 0.32525533 0.4181235 0.6867536 0.72967452
## [7,] 0.990784886 0.60900785 0.42318775 0.2553945 0.9031896 0.06836751
## [8,] 0.472186190 0.09256639 0.11508075 0.7662656 0.6671699 0.04854479
## [9,] 0.534311534 0.11424586 0.73033891 0.3526028 0.9379274 0.56454647
## [10,] 0.568432819 0.44159346 0.48079884 0.3551350 0.8733027 0.44695523
##          [,916]      [,917]      [,918]      [,919]      [,920]      [,921]      [,9
22]
## [1,] 0.901049868 0.2539921 0.7682550 0.7388158 0.2556654 0.5416060 0.2041
664
## [2,] 0.095767825 0.3878409 0.3536928 0.9787421 0.9632982 0.5391422 0.1058
209
## [3,] 0.954144965 0.4800180 0.1895083 0.3665384 0.6695886 0.3058125 0.1881
157
## [4,] 0.307552594 0.6841815 0.4028554 0.4686663 0.8885894 0.1107585 0.9014
525
## [5,] 0.005683567 0.5641963 0.8597381 0.2190041 0.2122383 0.8243898 0.6962
112
## [6,] 0.301185647 0.8370930 0.8878189 0.7821743 0.4688199 0.6910746 0.8945
809
## [7,] 0.329938444 0.4924746 0.3361158 0.5925468 0.2493703 0.1491512 0.3927
819
## [8,] 0.831559167 0.6339690 0.7766410 0.3883510 0.5296655 0.4762132 0.7687
906
## [9,] 0.338300672 0.5229866 0.2742345 0.5921969 0.1676937 0.2756910 0.7633
574
## [10,] 0.806729395 0.7864420 0.1027407 0.4805294 0.7628706 0.0979027 0.5113
394
##          [,923]      [,924]      [,925]      [,926]      [,927]      [,928]
## [1,] 0.586518957 0.89103427 0.1766950 0.88655702 0.7873268 0.009648517
## [2,] 0.007412673 0.65672745 0.6381737 0.22302702 0.4669914 0.069179464
## [3,] 0.648165572 0.21861945 0.1708708 0.92071633 0.3754925 0.899458886
## [4,] 0.642444404 0.34903511 0.2054081 0.40639660 0.3309740 0.667300988
## [5,] 0.803163649 0.54099406 0.2754841 0.49351267 0.7479053 0.804648411

```

```

## [6,] 0.974776310 0.09365688 0.3546090 0.64465014 0.6344199 0.154212401
## [7,] 0.972972934 0.83460077 0.6916568 0.02502657 0.7889039 0.231206379
## [8,] 0.138324035 0.65991674 0.7938060 0.17963387 0.7262114 0.149351922
## [9,] 0.530419824 0.38063617 0.8987626 0.41872580 0.5104621 0.807624766
## [10,] 0.274764693 0.66237216 0.1807799 0.39018806 0.9324998 0.663757191
##      [,929]      [,930]      [,931]      [,932]      [,933]      [,934]
## [1,] 0.07460421 0.94157082 0.04873623 0.2480537 0.916684114 0.73348787
## [2,] 0.89515387 0.92678604 0.18373813 0.9677502 0.902333241 0.13522863
## [3,] 0.62991561 0.33356656 0.81290070 0.5609818 0.929933706 0.31465372
## [4,] 0.64759889 0.45596311 0.98215188 0.6497761 0.450410053 0.81745917
## [5,] 0.84221312 0.03025737 0.07756390 0.3326990 0.917252815 0.17348063
## [6,] 0.26563728 0.55943795 0.32128886 0.2529106 0.500315350 0.34595242
## [7,] 0.22207452 0.19095950 0.62631438 0.9168882 0.476277445 0.64909771
## [8,] 0.06178089 0.58188752 0.82994515 0.7938188 0.246071044 0.68193200
## [9,] 0.64319609 0.12327837 0.74997495 0.9404505 0.008392913 0.82618694
## [10,] 0.49002740 0.28259221 0.13259530 0.7708278 0.285573161 0.05301385
##      [,935]      [,936]      [,937]      [,938]      [,939]      [,940]
## [1,] 0.30980184 0.9962204 0.69517347 0.3656481 0.96601197 0.42153165
## [2,] 0.83006212 0.6812509 0.41198993 0.2485791 0.82173991 0.87133719
## [3,] 0.23765931 0.3552750 0.85676167 0.4379073 0.86850043 0.61056173
## [4,] 0.08274562 0.7788949 0.03249024 0.9933396 0.08644621 0.01104441
## [5,] 0.64058434 0.5363525 0.50531196 0.3640467 0.47265143 0.82180471
## [6,] 0.42107817 0.6458686 0.19501372 0.1759763 0.28520864 0.96937377
## [7,] 0.78245144 0.9068815 0.95010177 0.6401037 0.03381800 0.80333418
## [8,] 0.01435152 0.2577074 0.99781279 0.5827527 0.98348971 0.91759641
## [9,] 0.81133979 0.7145586 0.03169962 0.9263925 0.84307897 0.61853915
## [10,] 0.61287217 0.8332390 0.95240731 0.9693728 0.16892692 0.86876453
##      [,941]      [,942]      [,943]      [,944]      [,945]      [,946]
## [1,] 0.261555809 0.703835717 0.9869667 0.25721163 0.76550911 0.77786111
## [2,] 0.817186344 0.042010363 0.9558015 0.12195483 0.14687575 0.31515338
## [3,] 0.002558347 0.003425309 0.3480010 0.45496574 0.78113711 0.43462031
## [4,] 0.630534761 0.937934733 0.8687093 0.01986549 0.96205061 0.14437250
## [5,] 0.560528523 0.683619831 0.7126191 0.19308640 0.77077868 0.08017948
## [6,] 0.994520027 0.892451663 0.4848123 0.96170998 0.43113326 0.98026977
## [7,] 0.491139416 0.167539013 0.9967076 0.44988504 0.03877456 0.85669889
## [8,] 0.364064725 0.636743599 0.2070206 0.07608309 0.04114369 0.17332488
## [9,] 0.727631344 0.433676896 0.7780713 0.64487460 0.31058130 0.66146437
## [10,] 0.650049331 0.661690374 0.2009114 0.24487374 0.60479255 0.67188277
##      [,947]      [,948]      [,949]      [,950]      [,951]      [,952]      [,
953]
## [1,] 0.5686911 0.57702216 0.2694611 0.51361727 0.1745322 0.85562087 0.562
6361
## [2,] 0.9700788 0.55463504 0.6912731 0.61712201 0.2441404 0.07631042 0.316
0288
## [3,] 0.2378353 0.62961382 0.8223778 0.18608927 0.3386630 0.58053290 0.160
8532
## [4,] 0.3932723 0.64895660 0.5356494 0.60571085 0.9393997 0.10744067 0.615
4617
## [5,] 0.8137230 0.36026523 0.2870782 0.16382849 0.7856957 0.40452120 0.951
2987

```

```

## [6,] 0.7364568 0.32247473 0.4338956 0.90562300 0.5662636 0.55004351 0.425
7064
## [7,] 0.7844157 0.93720943 0.1627597 0.28942042 0.2500722 0.67491854 0.899
4235
## [8,] 0.2709719 0.35486825 0.2589220 0.78317922 0.4133099 0.85734307 0.109
3040
## [9,] 0.3431311 0.17472876 0.3450794 0.96330151 0.5057612 0.25130697 0.941
5942
## [10,] 0.5215413 0.03963962 0.5708479 0.03037277 0.7724207 0.52537176 0.189
4752
##          [,954]      [,955]      [,956]      [,957]      [,958]      [,959]
## [1,] 0.9867456 0.40491447 0.11684526 0.6953573 0.4861278 0.4408442616
## [2,] 0.4749749 0.54106167 0.74261593 0.6754310 0.5339509 0.9250095629
## [3,] 0.8542743 0.03123631 0.84678633 0.3271639 0.1947526 0.0824581308
## [4,] 0.6460849 0.90662760 0.07582260 0.1909092 0.6675917 0.8765255190
## [5,] 0.6241850 0.72800427 0.08015767 0.5301017 0.8739703 0.7341948447
## [6,] 0.6579427 0.41217772 0.32395960 0.2135511 0.2802223 0.2452475063
## [7,] 0.7319803 0.66587494 0.74914267 0.6766494 0.5052834 0.0004882941
## [8,] 0.9047253 0.13424872 0.43288839 0.4773033 0.4554431 0.9138411793
## [9,] 0.2974362 0.99630878 0.61276139 0.4325461 0.6331382 0.9519711789
## [10,] 0.7777162 0.47053902 0.26168867 0.5843082 0.8675484 0.9287777585
##          [,960]      [,961]      [,962]      [,963]      [,964]      [,965]      [
,966]
## [1,] 0.26120875 0.5162706 0.838791577 0.5240165 0.1805351 0.66796432 0.82
49715
## [2,] 0.30401634 0.7560409 0.169013337 0.2150732 0.1921326 0.11241613 0.29
83799
## [3,] 0.33331775 0.8733079 0.857915990 0.8318327 0.5425784 0.29722432 0.89
00346
## [4,] 0.74343557 0.1810388 0.184665260 0.3820912 0.8229758 0.28237825 0.99
36065
## [5,] 0.83057008 0.5612480 0.341368677 0.9932616 0.5913481 0.66925323 0.36
77829
## [6,] 0.98879126 0.8086879 0.816094417 0.9660470 0.5719820 0.62356149 0.75
83540
## [7,] 0.03771698 0.9234816 0.004867282 0.6543442 0.5600167 0.86058929 0.19
21905
## [8,] 0.81392937 0.4813982 0.352542846 0.3405314 0.5196979 0.04477623 0.35
17479
## [9,] 0.75982129 0.5299534 0.388433278 0.8539410 0.2252750 0.10125865 0.07
41110
## [10,] 0.14443627 0.7345235 0.890252227 0.1309993 0.7669393 0.45178056 0.76
01644
##          [,967]      [,968]      [,969]      [,970]      [,971]      [,972]
## [1,] 0.49010665 0.13566228 0.38581806 0.2905063 0.06722387 0.9744276
## [2,] 0.85288804 0.46938640 0.52529226 0.9922612 0.51062428 0.8724969
## [3,] 0.74526348 0.18554445 0.46864130 0.7657189 0.77929832 0.8029677
## [4,] 0.37548601 0.55173166 0.45745077 0.1182496 0.61906933 0.8352065
## [5,] 0.15318695 0.48245558 0.18203390 0.3691256 0.68495636 0.4346861
## [6,] 0.62390354 0.49908927 0.54242883 0.4039254 0.52509445 0.3893354

```

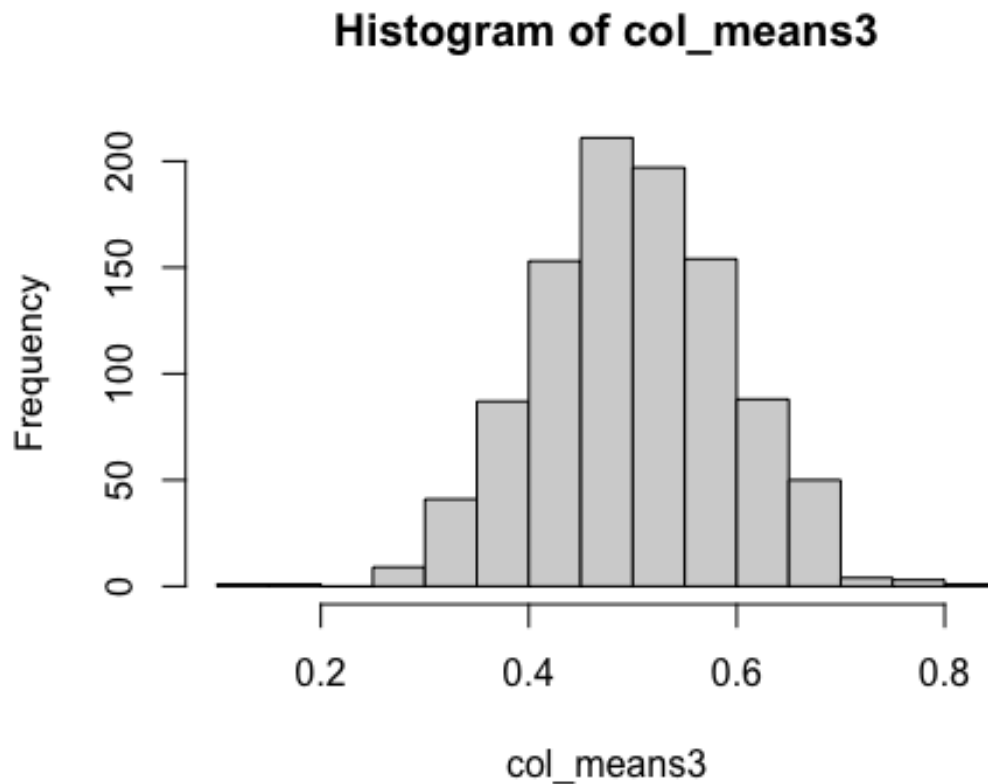
```

## [7,] 0.25791817 0.13970899 0.04236036 0.3541491 0.57409368 0.6740709
## [8,] 0.57264415 0.72868050 0.44449934 0.2451091 0.52008604 0.2663446
## [9,] 0.40769843 0.66821378 0.14996557 0.4800086 0.64152464 0.2982318
## [10,] 0.01955734 0.09161596 0.36751113 0.7229364 0.01166394 0.8042628
##      [,973]      [,974]      [,975]      [,976]      [,977]      [,978]
## [1,] 0.04341405 0.4083869 0.13448459 0.8445872 0.50353019 0.28687270
## [2,] 0.75460866 0.8017241 0.38567445 0.4991480 0.03699350 0.49523116
## [3,] 0.76818056 0.6644695 0.86562588 0.2306572 0.61909795 0.71013304
## [4,] 0.50321200 0.1782983 0.99327470 0.2739724 0.07122234 0.85581685
## [5,] 0.73680666 0.6108578 0.06074064 0.5054020 0.76064000 0.69442220
## [6,] 0.05205550 0.9621058 0.50662339 0.4157761 0.29744676 0.67497428
## [7,] 0.46338368 0.8761177 0.28460288 0.9172693 0.77623008 0.70972815
## [8,] 0.82340658 0.6860811 0.44234254 0.2501202 0.05817181 0.33993061
## [9,] 0.93854951 0.9486671 0.03784423 0.5861922 0.13068438 0.86180018
## [10,] 0.52260507 0.8365439 0.04378947 0.8714285 0.79701680 0.01615769
##      [,979]      [,980]      [,981]      [,982]      [,983]      [,984]
## [1,] 0.48241470 0.3894665 0.18465043 0.1908782 0.26915799 0.66923484
## [2,] 0.03431058 0.2872553 0.28989295 0.7333553 0.19864713 0.31965374
## [3,] 0.05551214 0.2676993 0.13921007 0.3748837 0.13358509 0.87472906
## [4,] 0.01971670 0.3686806 0.89617181 0.6797423 0.76848022 0.08229219
## [5,] 0.67938206 0.5352463 0.69237971 0.5020855 0.10118934 0.99447599
## [6,] 0.29237426 0.6282967 0.31824266 0.9720057 0.54260533 0.99372596
## [7,] 0.26215800 0.9400981 0.71347557 0.1295593 0.98365896 0.50838375
## [8,] 0.24684038 0.0463117 0.95365710 0.0861297 0.01725353 0.15675718
## [9,] 0.59688477 0.3945473 0.05988647 0.2921942 0.47854637 0.87032157
## [10,] 0.39171335 0.1470081 0.93471762 0.8066659 0.55098344 0.29528272
##      [,985]      [,986]      [,987]      [,988]      [,989]      [,990]      [
,991]
## [1,] 0.97031276 0.9611679 0.746090162 0.6141474 0.1997749 0.38237768 0.11
70580
## [2,] 0.71365237 0.3969078 0.561878989 0.7535425 0.3397765 0.26818018 0.19
26719
## [3,] 0.02984127 0.2407052 0.818389735 0.5620701 0.7518878 0.99102924 0.62
09249
## [4,] 0.91438335 0.3794578 0.980649503 0.3434587 0.8585476 0.06087180 0.53
05865
## [5,] 0.07638301 0.1855066 0.580196426 0.6494996 0.3097781 0.00520480 0.26
58470
## [6,] 0.29976729 0.2127166 0.277310534 0.1344779 0.1091256 0.40884093 0.66
19729
## [7,] 0.06410615 0.3134410 0.825942634 0.1910928 0.8487270 0.05565646 0.61
39392
## [8,] 0.44208397 0.4007249 0.960654536 0.5497322 0.9877679 0.91426284 0.37
92675
## [9,] 0.98748198 0.2634993 0.345594455 0.5300868 0.4236618 0.01958947 0.16
89446
## [10,] 0.63612546 0.7926735 0.008384567 0.8078801 0.3958777 0.59292136 0.85
59690
##      [,992]      [,993]      [,994]      [,995]      [,996]      [,997]
## [1,] 0.84824794 0.77509153 0.98368768 0.72284621 0.86875679 0.41265494

```

```
## [2,] 0.03591975 0.35326757 0.44986663 0.06557738 0.90083068 0.41722500
## [3,] 0.77408477 0.90246080 0.13102911 0.20744768 0.62080232 0.68643297
## [4,] 0.49279642 0.25460615 0.45144692 0.02546096 0.21495990 0.56956513
## [5,] 0.56712780 0.30111162 0.77804931 0.23269154 0.23845899 0.08241912
## [6,] 0.05253266 0.35975546 0.39685873 0.61820571 0.26083126 0.63692430
## [7,] 0.08922068 0.17887191 0.57535802 0.32543797 0.60636323 0.75007332
## [8,] 0.86270827 0.56344834 0.04731499 0.39245094 0.22169108 0.86932908
## [9,] 0.54933955 0.05777401 0.65615264 0.08281456 0.09573569 0.85667416
## [10,] 0.11582108 0.94940743 0.90663778 0.73395432 0.72379374 0.44723256
##      [,998]      [,999]      [,1000]
## [1,] 0.5523198 0.07504967 0.9198661
## [2,] 0.1382886 0.86464866 0.9448651
## [3,] 0.8816831 0.40155115 0.6879503
## [4,] 0.5034373 0.54576171 0.3955416
## [5,] 0.7796034 0.90588227 0.7161537
## [6,] 0.6972451 0.48876053 0.5025456
## [7,] 0.1752195 0.36663761 0.2946217
## [8,] 0.6054593 0.84339773 0.5832847
## [9,] 0.8940558 0.97189422 0.9789215
## [10,] 0.7348586 0.45156677 0.9105780
```

calculate the column means and plot a histogram



read the rainfall data from problem 1

```
rainfall <- c(0.1,0.6,33.8,1.9,9.6,4.3,33.7,0.3,0.0,0.1)
```

subset of data where rainfall is larger than 20

```
rainfall_subset <- rainfall[rainfall > 20]  
print(rainfall_subset)
```

```
## [1] 33.8 33.7
```

mean rainfall for days where rainfall was at least 4

```
mean_rainfall_subset <- mean(rainfall[rainfall >= 4])  
print(mean_rainfall_subset)
```

```
## [1] 20.35
```

subset where rainfall is either 0 or 0.6

```
rainfall_subset2 <- rainfall[rainfall == 0 | rainfall == 0.6]  
print(rainfall_subset2)
```

```
## [1] 0.6 0.0
```