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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

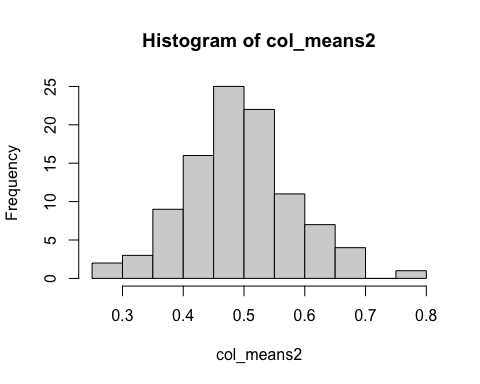
# create a matrix with 100 columns and 10 rows

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

## [,1] [,2] [,3] [,4] [,5] [,6] [,7]  
## [1,] 0.6940850 0.2209152 0.5779421 0.69396987 0.33012605 0.7484524 0.003174628  
## [2,] 0.6546945 0.4933201 0.3378675 0.84995557 0.81765894 0.2660248 0.892228944  
## [3,] 0.5443960 0.4983827 0.3619026 0.18816138 0.13707077 0.4564289 0.124047986  
## [4,] 0.3445408 0.1486853 0.0819185 0.05903929 0.03561366 0.5487207 0.182524195  
## [5,] 0.7503316 0.3628482 0.7342313 0.09783788 0.72890365 0.7312283 0.083801840  
## [6,] 0.9612492 0.3967256 0.6909119 0.19749596 0.97736371 0.1052921 0.302998376  
## [7,] 0.1289783 0.8964268 0.8329291 0.35954628 0.22985008 0.4359280 0.454600146  
## [8,] 0.6438775 0.4611763 0.3087275 0.29598362 0.19520158 0.1650254 0.966135830  
## [9,] 0.8374568 0.6433013 0.1917307 0.19286519 0.05770870 0.7143291 0.592070616  
## [10,] 0.9966801 0.4748866 0.0872178 0.62436092 0.31469100 0.9091927 0.883152833  
## [,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 0.13347266  
## [2,] 0.7163852 0.24017270 0.7072547 0.73775546 0.3481968 0.4735293 0.88202993  
## [3,] 0.3166685 0.44593129 0.6938385 0.90916991 0.2078693 0.4664425 0.97021829  
## [4,] 0.1282121 0.84205191 0.5588233 0.87119554 0.9036180 0.6801933 0.17636088  
## [5,] 0.9424102 0.17690055 0.4450270 0.27658539 0.1226997 0.8024846 0.06737822  
## [6,] 0.5959184 0.02872359 0.2071864 0.02470915 0.1795962 0.1881697 0.93192073  
## [7,] 0.7144034 0.71588303 0.4282622 0.90325527 0.9160025 0.5569454 0.40695348  
## [8,] 0.3777227 0.79493851 0.4877494 0.04770399 0.4337327 0.7861411 0.34314489  
## [9,] 0.4398495 0.66762321 0.8713473 0.98850750 0.8751995 0.2601608 0.15394989  
## [10,] 0.2600909 0.60253080 0.6058780 0.95089950 0.7228980 0.5207205 0.72559465  
## [,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 0.52172668  
## [2,] 0.1339730 0.6254746 0.46871156 0.3182410 0.37564919 0.11886593 0.41052374  
## [3,] 0.4347549 0.9591758 0.05709714 0.9331777 0.80389216 0.27265266 0.29671606  
## [4,] 0.1275520 0.4937339 0.59224021 0.8159113 0.34047157 0.19889780 0.42846670  
## [5,] 0.5553373 0.2125959 0.71195129 0.5540448 0.64646238 0.17117794 0.98817595  
## [6,] 0.2257569 0.2593579 0.53735507 0.8744097 0.29611274 0.45654809 0.06625641  
## [7,] 0.3335739 0.4754801 0.36701810 0.9920376 0.22917434 0.65040667 0.01953795  
## [8,] 0.9489142 0.4990722 0.43449844 0.4831684 0.58950172 0.97872216 0.09379237  
## [9,] 0.4440185 0.3194024 0.25756584 0.5296261 0.03481231 0.05457376 0.38187428  
## [10,] 0.3208681 0.4810205 0.74584948 0.4693412 0.46169640 0.34699519 0.31943932  
## [,46] [,47] [,48] [,49] [,50] [,51] [,52]  
## [1,] 0.38513860 0.64701480 0.46052121 0.8849693 0.6975631 0.93094246 0.5372669  
## [2,] 0.91798718 0.14041479 0.66324852 0.4452680 0.4141231 0.89273098 0.7113007  
## [3,] 0.84930330 0.78751111 0.57451062 0.3190306 0.4832890 0.04303228 0.6695426  
## [4,] 0.37698039 0.30537800 0.06306717 0.4418509 0.6263090 0.76770369 0.3371905  
## [5,] 0.92583808 0.11654640 0.12948066 0.5033553 0.8652125 0.82989968 0.1439231  
## [6,] 0.10645529 0.15652988 0.20023392 0.1643815 0.6791292 0.86946049 0.4497516  
## [7,] 0.67569335 0.10749124 0.81981997 0.1246629 0.6129082 0.10159577 0.8106412  
## [8,] 0.11658247 0.03515553 0.27293105 0.9920721 0.9847015 0.42374776 0.4105507  
## [9,] 0.07814432 0.81604891 0.74194324 0.4310454 0.3572170 0.35888741 0.6511579  
## [10,] 0.13526850 0.75708898 0.88049967 0.3681143 0.3081001 0.96764125 0.3424795  
## [,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 0.10572654  
## [2,] 0.7613953 0.0647350 0.04745921 0.42103357 0.8479672 0.16176266 0.29233094  
## [3,] 0.1698589 0.7706132 0.37121141 0.37971343 0.7061687 0.41217282 0.08212308  
## [4,] 0.7943168 0.8394138 0.63400040 0.29194145 0.5736905 0.79911235 0.52471047  
## [5,] 0.6542472 0.2979282 0.57737100 0.07580856 0.6547364 0.66550160 0.19469438  
## [6,] 0.5479384 0.2584349 0.25066453 0.45948217 0.6924495 0.44295607 0.94920607  
## [7,] 0.4452262 0.6121112 0.95592830 0.23370022 0.1106685 0.58877676 0.24825637  
## [8,] 0.9197675 0.2536316 0.36602018 0.88104449 0.6493505 0.16633549 0.01439489  
## [9,] 0.6785327 0.8839213 0.28253788 0.52555721 0.3612936 0.08849266 0.17976158  
## [10,] 0.4493415 0.4626944 0.13499130 0.56870766 0.1844130 0.40467559 0.34249265  
## [,72] [,73] [,74] [,75] [,76] [,77] [,78]  
## [1,] 0.7190033 0.82292815 0.20088737 0.4299885 0.6989402 0.1020061 0.7097781  
## [2,] 0.8861488 0.80813775 0.18131271 0.3909707 0.4346354 0.5724918 0.2956427  
## [3,] 0.5152644 0.12325852 0.63472136 0.9071144 0.3466691 0.6316228 0.2686038  
## [4,] 0.3369693 0.06441379 0.65163306 0.6254270 0.8762815 0.3710296 0.3771037  
## [5,] 0.9288070 0.87829979 0.67842036 0.3790910 0.3139787 0.5866750 0.4227334  
## [6,] 0.7232143 0.98578612 0.01240999 0.2159221 0.1138316 0.2924698 0.6242283  
## [7,] 0.3593386 0.44454524 0.40767418 0.8211767 0.7329546 0.2629601 0.7970047  
## [8,] 0.5319121 0.09449713 0.61995079 0.5227283 0.7281067 0.7217499 0.2044795  
## [9,] 0.6735981 0.45307232 0.31589367 0.5019773 0.4071566 0.4574028 0.5196846  
## [10,] 0.7014809 0.86791737 0.95624248 0.4982598 0.1896143 0.5368629 0.3118005  
## [,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] [,97]  
## [1,] 0.3914620 0.5961938 0.4525801 0.91628487 0.7246681 0.7680214 0.9566009  
## [2,] 0.8520751 0.4709524 0.9491827 0.13996697 0.4915882 0.2779077 0.2476311  
## [3,] 0.9678615 0.1848064 0.5979029 0.24798466 0.8727499 0.6478184 0.7800346  
## [4,] 0.5295068 0.2734480 0.2765825 0.21164072 0.4851234 0.5619787 0.5843545  
## [5,] 0.1363955 0.2888221 0.4639225 0.95354080 0.9841274 0.7050281 0.8713166  
## [6,] 0.6819981 0.3489549 0.0249804 0.04365961 0.1141480 0.5555732 0.6542247  
## [7,] 0.2844347 0.3577802 0.7336735 0.39065351 0.4335011 0.4746849 0.4166250  
## [8,] 0.8003130 0.4445308 0.7782475 0.51845128 0.2828192 0.8016486 0.6700746  
## [9,] 0.6753571 0.6053286 0.6753670 0.48724419 0.4443511 0.1769967 0.2510150  
## [10,] 0.1224540 0.8476749 0.6854628 0.69858106 0.4700080 0.1716566 0.1611922  
## [,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)

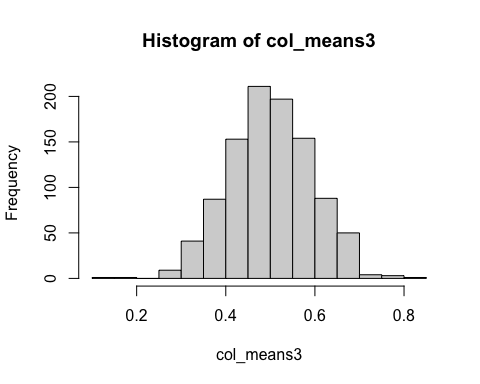


# create another matrix with 1000 columns and 10 rows

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 0.89779062  
## [2,] 0.04620366 0.1430697 0.75453891 0.6098047 0.61835883 0.2621545 0.68891916  
## [3,] 0.31913706 0.9440593 0.64390567 0.4109779 0.13393124 0.9142239 0.97348071  
## [4,] 0.67026470 0.6351494 0.08173876 0.9106263 0.55696721 0.9722272 0.84829456  
## [5,] 0.24519331 0.3992745 0.24004204 0.2115882 0.03268521 0.2127992 0.06061005  
## [6,] 0.67505972 0.3667505 0.06021848 0.5750363 0.94412762 0.6592554 0.42413635  
## [7,] 0.53831873 0.6003387 0.46643311 0.8987145 0.03633879 0.9156305 0.51423272  
## [8,] 0.72873497 0.4277766 0.59085864 0.5652632 0.87322017 0.9482562 0.60475812  
## [9,] 0.44837199 0.4261374 0.51259952 0.3682577 0.27873968 0.4573371 0.64819758  
## [10,] 0.54711117 0.2635389 0.07645580 0.4397074 0.55375573 0.1978588 0.65031293  
## [,14] [,15] [,16] [,17] [,18] [,19] [,20]  
## [1,] 0.02298611 0.2684328 0.1828084 0.69123440 0.65254197 0.4094963 0.37117792  
## [2,] 0.19953243 0.7573018 0.3181489 0.93893966 0.13113588 0.3728470 0.11484146  
## [3,] 0.23796948 0.4359194 0.6409009 0.09737046 0.97577449 0.7079715 0.44643036  
## [4,] 0.73991867 0.6993183 0.6876764 0.84597485 0.65101579 0.6050330 0.47466335  
## [5,] 0.59861270 0.6696855 0.7023075 0.57165366 0.61502636 0.7990193 0.76581238  
## [6,] 0.37157292 0.1479933 0.3544830 0.10729864 0.11695099 0.5200085 0.51017891  
## [7,] 0.41834293 0.1384505 0.9538098 0.21942977 0.08275742 0.7648788 0.44669904  
## [8,] 0.93224272 0.4835332 0.9324695 0.10565577 0.30159542 0.1574781 0.15652552  
## [9,] 0.80553699 0.8610669 0.4845795 0.22448377 0.75933280 0.3015962 0.03914219  
## [10,] 0.03648900 0.2929889 0.6081847 0.27993500 0.65670642 0.1100864 0.57046185  
## [,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 0.82191978  
## [2,] 0.36574244 0.9136172 0.6640807 0.90833434 0.06775625 0.5458791 0.76478860  
## [3,] 0.80586551 0.7707853 0.2152290 0.50943763 0.82982716 0.3000023 0.33493205  
## [4,] 0.07878133 0.9010250 0.9128430 0.98305361 0.74324831 0.3192600 0.40616073  
## [5,] 0.53668912 0.9566556 0.7133869 0.28229924 0.88505776 0.1220029 0.14381231  
## [6,] 0.26681707 0.3333723 0.7602078 0.91260155 0.64400771 0.3434858 0.60780186  
## [7,] 0.11262143 0.2822075 0.4796987 0.71271520 0.43522069 0.4464483 0.08902879  
## [8,] 0.05515026 0.3664779 0.2532570 0.59163356 0.05538823 0.4645516 0.01856955  
## [9,] 0.37648313 0.7778754 0.4585168 0.79169681 0.46778141 0.1363092 0.56844441  
## [10,] 0.72243336 0.3589850 0.4011075 0.03740552 0.64566505 0.6744643 0.87281717  
## [,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] [,58]  
## [1,] 0.4638037 0.6167619 0.6444238 0.42589497 0.6583360 0.2480533 0.6768652  
## [2,] 0.4761736 0.4744820 0.9391104 0.39236495 0.6845155 0.9262438 0.8269499  
## [3,] 0.4937104 0.2827855 0.1743744 0.33742117 0.6044868 0.3455860 0.4131481  
## [4,] 0.8966490 0.6631656 0.6109761 0.23804612 0.8728922 0.1302792 0.1560623  
## [5,] 0.8704330 0.1583249 0.3462612 0.24483550 0.1417496 0.4984102 0.8087396  
## [6,] 0.3316627 0.3512247 0.1275875 0.48565658 0.1746605 0.9728482 0.8807648  
## [7,] 0.7500843 0.8873562 0.4467911 0.47760795 0.5069196 0.8658846 0.6205849  
## [8,] 0.1843490 0.1545264 0.3195387 0.01828528 0.1575233 0.2785578 0.8638739  
## [9,] 0.2539115 0.9517928 0.5231834 0.44322436 0.9997362 0.4941368 0.2018491  
## [10,] 0.7609260 0.7612335 0.1901106 0.20991384 0.3008763 0.7868688 0.7416942  
## [,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] [,77]  
## [1,] 0.1316328 0.6616348 0.01472488 0.9341626 0.52734626 0.003844947 0.6175925  
## [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 0.2675772  
## [2,] 0.5183043 0.95168150 0.64267514 0.6517397 0.4537177 0.34498587 0.8938573  
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## [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  
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## [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  
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## [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  
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## [3,] 0.954144965 0.4800180 0.1895083 0.3665384 0.6695886 0.3058125 0.1881157  
## [4,] 0.307552594 0.6841815 0.4028554 0.4686663 0.8885894 0.1107585 0.9014525  
## [5,] 0.005683567 0.5641963 0.8597381 0.2190041 0.2122383 0.8243898 0.6962112  
## [6,] 0.301185647 0.8370930 0.8878189 0.7821743 0.4688199 0.6910746 0.8945809  
## [7,] 0.329938444 0.4924746 0.3361158 0.5925468 0.2493703 0.1491512 0.3927819  
## [8,] 0.831559167 0.6339690 0.7766410 0.3883510 0.5296655 0.4762132 0.7687906  
## [9,] 0.338300672 0.5229866 0.2742345 0.5921969 0.1676937 0.2756910 0.7633574  
## [10,] 0.806729395 0.7864420 0.1027407 0.4805294 0.7628706 0.0979027 0.5113394  
## [,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  
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## [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  
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## [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  
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## [1,] 0.5686911 0.57702216 0.2694611 0.51361727 0.1745322 0.85562087 0.5626361  
## [2,] 0.9700788 0.55463504 0.6912731 0.61712201 0.2441404 0.07631042 0.3160288  
## [3,] 0.2378353 0.62961382 0.8223778 0.18608927 0.3386630 0.58053290 0.1608532  
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## [5,] 0.8137230 0.36026523 0.2870782 0.16382849 0.7856957 0.40452120 0.9512987  
## [6,] 0.7364568 0.32247473 0.4338956 0.90562300 0.5662636 0.55004351 0.4257064  
## [7,] 0.7844157 0.93720943 0.1627597 0.28942042 0.2500722 0.67491854 0.8994235  
## [8,] 0.2709719 0.35486825 0.2589220 0.78317922 0.4133099 0.85734307 0.1093040  
## [9,] 0.3431311 0.17472876 0.3450794 0.96330151 0.5057612 0.25130697 0.9415942  
## [10,] 0.5215413 0.03963962 0.5708479 0.03037277 0.7724207 0.52537176 0.1894752  
## [,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 0.8249715  
## [2,] 0.30401634 0.7560409 0.169013337 0.2150732 0.1921326 0.11241613 0.2983799  
## [3,] 0.33331775 0.8733079 0.857915990 0.8318327 0.5425784 0.29722432 0.8900346  
## [4,] 0.74343557 0.1810388 0.184665260 0.3820912 0.8229758 0.28237825 0.9936065  
## [5,] 0.83057008 0.5612480 0.341368677 0.9932616 0.5913481 0.66925323 0.3677829  
## [6,] 0.98879126 0.8086879 0.816094417 0.9660470 0.5719820 0.62356149 0.7583540  
## [7,] 0.03771698 0.9234816 0.004867282 0.6543442 0.5600167 0.86058929 0.1921905  
## [8,] 0.81392937 0.4813982 0.352542846 0.3405314 0.5196979 0.04477623 0.3517479  
## [9,] 0.75982129 0.5299534 0.388433278 0.8539410 0.2252750 0.10125865 0.0741110  
## [10,] 0.14443627 0.7345235 0.890252227 0.1309993 0.7669393 0.45178056 0.7601644  
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## [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  
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## [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  
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## [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  
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## [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  
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## [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  
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## [1,] 0.97031276 0.9611679 0.746090162 0.6141474 0.1997749 0.38237768 0.1170580  
## [2,] 0.71365237 0.3969078 0.561878989 0.7535425 0.3397765 0.26818018 0.1926719  
## [3,] 0.02984127 0.2407052 0.818389735 0.5620701 0.7518878 0.99102924 0.6209249  
## [4,] 0.91438335 0.3794578 0.980649503 0.3434587 0.8585476 0.06087180 0.5305865  
## [5,] 0.07638301 0.1855066 0.580196426 0.6494996 0.3097781 0.00520480 0.2658470  
## [6,] 0.29976729 0.2127166 0.277310534 0.1344779 0.1091256 0.40884093 0.6619729  
## [7,] 0.06410615 0.3134410 0.825942634 0.1910928 0.8487270 0.05565646 0.6139392  
## [8,] 0.44208397 0.4007249 0.960654536 0.5497322 0.9877679 0.91426284 0.3792675  
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## [10,] 0.63612546 0.7926735 0.008384567 0.8078801 0.3958777 0.59292136 0.8559690  
## [,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