

# hw7

*Hari Rajan*

## Question 1

```
# load the R.matlab package
library(R.matlab)
```

```
## R.matlab v3.6.2 (2018-09-26) successfully loaded. See ?R.matlab for help.
```

```
##
## Attaching package: 'R.matlab'
```

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

```
# read the .mat file and store contents in fmri.p1
fmri.p1 <- readMat("data/data-science-P1.mat")
# unlist each element in the dataset and use rbind to combine into a data fram
fmri <- do.call(rbind, lapply(fmri.p1$data, unlist))
# store the column names for the fmri data
colnames <- 1:dim(fmri)[2]
```

```
dim(fmri)
```

```
## [1] 360 21764
```

```
fmri[1,]
```

```
##
## -0.0268068040  0.6848338374  0.9132587024 -0.6074734369 -0.0356522603
##
##  0.8315922950  0.0361464371  0.1033275523  0.4098860320  0.3776860920
##
## -0.5206052824  0.0629241856  0.9713495031  0.7664939434  0.6290993533
##
##  0.6061941234  0.2737461464  1.0046288725  0.7072448844  0.3888644983
##
##  0.4235430018  1.1847987615  1.0725704653  0.4298237313  0.3717898597
##
##  0.1218743653 -0.2705615464 -0.4348328819  0.5013536137  0.7931010379
##
##  0.8528252954  0.7253466096 -0.9084811451 -0.2382045176  0.4623382459
##
##  0.6984480057  0.3558599860  0.5696588769  0.7581669391  0.6104543970
##
##  0.4264445501  0.3825585709 -0.0708772961  0.0495184434  0.7403843957
```

```

##
## 0.4728494771 0.1362158031 -0.2456850191 0.0051898763 0.4518606080
##
## 0.6725187936 0.5461302647 0.5523170773 1.0824992840 0.8553434615
##
## -0.8446116990 -0.1450041539 0.1162046413 0.6676634428 0.7066804019
##
## 0.0572908953 -0.2380780486 1.3355566742 1.0931203859 0.5459569030
##
## 0.4687530525 0.1516094378 -0.2633442451 -0.2187603855 0.2454460742
##
## 0.1560496611 0.3186055852 0.3013344958 0.2789812259 0.2747895107
##
## 0.2681697593 0.1485122232 0.8193642231 0.5063424002 0.1063350950
##
## -0.2573645672 -0.4025574751 -0.2127491631 0.5877170663 0.8450446610
##
## 1.1781991656 1.3161058680 0.8260911462 1.3127204275 0.4545417118
##
## 0.0774526260 0.1782276460 0.0252716892 -0.3679926235 -1.0191273796
##
## -0.1061565014 0.4857963770 -0.2907989945 -0.1329413584 -0.0295842847
##
## 0.2036569820 0.5662023262 0.5705026338 0.1816374341 1.1568176095
##
## 1.0106242523 0.9357178801 -0.1248604972 -0.1848789485 0.9600057566
##
## 0.3296876537 0.0972625449 0.6786368311 1.1292793600 0.5924668392
##
## 0.4993629918 0.2791592178 -0.1744603679 -0.4563462551 -0.3675996774
##
## 0.1437223268 0.4671416290 0.5181237567 0.0311018606 -0.6114912331
##
## 0.1215082223 0.1513834684 0.6150660693 1.1283988138 0.7111404069
##
## 0.2260383468 0.2559058849 0.0819739355 0.9139016612 0.0540374703
##
## -0.0406973330 0.2502457790 -0.5274828507 0.1003949295 0.5189641182
##
## 0.7003004251 0.5414751128 0.0629599428 0.0857284910 0.1899856509
##
## 0.0016735661 -0.1140664697 0.5806051828 0.0086926194 0.3383935793
##
## -0.1366862091 -0.2451705695 -0.2670220443 -0.1486156161 0.2625967078
##
## 0.8201679867 0.5384331979 0.2522134713 0.2091864161 0.0614981035
##
## -0.4160453153 -0.1523162485 -0.1280011912 0.3363081467 -0.4272346706
##
## -0.2873294346 -0.5075984025 0.3685422409 0.5830538475 0.4760596380
##
## 0.2275555366 -0.1632131618 -0.3973328856 0.5571566752 0.5815552544
##
## 0.1634833991 0.1430260138 0.0695042130 0.5513532773 0.0313663062

```

```

##
## -0.5378003427 -0.0687402091 -0.1057703231 0.2340498171 0.8000860372
##
## 0.4509544279 -0.2437881352 0.0181291959 0.3431115070 0.1617025089
##
## -0.0493082981 0.5202534245 0.1362651253 0.2149059578 0.5545295064
##
## 0.2447562198 -0.2704773229 -0.3347562828 -0.5671309615 0.0117534136
##
## 0.3091186470 0.4497538754 0.3877383080 0.0177248413 -0.3314916619
##
## -0.2414319916 -0.4355816263 0.1991113221 0.2042859875 0.2890638187
##
## -0.0143270609 -0.5912245166 -0.2898884097 0.3123352273 0.3670581785
##
## 0.2798854310 0.5994172006 -0.2836142261 0.1154126588 0.5269898972
##
## 0.4263963671 0.3787073681 0.5352276565 0.0556806239 0.0724436993
##
## 0.1927979596 -0.2935327571 -0.5987414742 -0.2567931692 -0.2716093806
##
## 0.1401254069 0.2262190362 0.5852355729 0.1642949580 -0.3940493537
##
## -0.2833771445 -0.0097784532 0.0414887562 0.1382894718 0.7140161202
##
## 1.2809832398 -0.0297272054 0.1365283588 0.3162231933 0.4813602330
##
## 0.6875866460 -0.0503894930 -0.8510900359 -0.7136375603 -0.5013017529
##
## -0.7241567722 -0.5862777176 -0.3636910129 -0.0374673816 0.3126533181
##
## -0.0172569966 0.1984783077 -0.3036856011 -0.5422958940 -0.4121880280
##
## -0.3010057697 -0.1368254140 0.7359760142 1.5700737952 1.6533983098
##
## 1.1936903422 -0.4966387003 -0.2277731614 0.0280694984 0.4600439870
##
## 0.1979819883 -0.5796016880 -0.7932845705 -0.6607086121 -0.5184956202
##
## -0.2459889906 -0.5912975736 -0.3071325068 -0.8041718797 -1.1207685281
##
## -0.6366177837 -0.3788659266 -0.0744519004 0.2105107532 0.5537013347
##
## 2.5394568189 0.4794204417 -1.0422821263 -0.3439849455 0.2006419228
##
## 0.5620376236 0.8593810061 0.4652552782 -0.0316958149 0.0349642126
##
## 0.3917555870 -0.6466625583 -0.9165413606 -0.0982598871 -0.0077518550
##
## 0.0712763684 0.5055502282 0.7573175489 0.0577454365 -0.0326699586
##
## 0.4861181248 0.5985085422 -0.2294596710 -0.5845474428 0.0459060934
##
## 0.6748289695 0.8254032543 0.6343905369 0.4686329277 0.1900491648

```

```

##
## -0.6071817175 -0.0381642592 -0.0450809966 -0.5838149483 -0.4975252612
##
## -0.1605155342 -0.0926173972 0.0895471170 -0.8836534411 0.1467461582
##
## 0.0171122488 -0.2843360780 0.1107131909 0.6392426079 0.0852235439
##
## -0.1357214665 -0.2762141529 -0.6291986801 -0.1593251516 0.4535879141
##
## 0.8745871773 0.8086372841 1.0602516116 0.6721862036 0.5590914910
##
## 0.5340732186 0.4336796950 0.3290842340 0.1027226793 0.3058629772
##
## 0.4146801712 -0.1314410726 0.3781287255 1.3152606935 1.0743646163
##
## 0.5064639452 0.3007562075 0.3292102379 0.3243665824 0.1658295013
##
## 0.6431952057 0.6397918305 0.5138426136 0.4192385702 0.2661910424
##
## 0.0280013263 -0.6079386308 -0.4248505531 0.3170834673 0.5475297674
##
## 0.2006624975 0.1340142620 -0.2521393356 -0.2206701474 1.4501421861
##
## 1.0655896504 0.2681940637 0.0080179192 1.1538741614 1.1006837091
##
## 0.9092836694 0.7513688690 0.5339740985 0.5976731122 0.4219519847
##
## 0.4867898225 0.3247453182 -0.1276194897 -0.4165231076 0.4493547042
##
## 0.4430627494 0.6688752676 0.4542979056 -1.0283812918 -0.0973052376
##
## 0.0470179874 -0.1529601230 -0.0338842642 0.9864870100 0.2643420826
##
## -0.0318773171 0.4046903920 1.2398440766 0.6128508969 0.4207253404
##
## 0.2531515473 -0.1228071676 0.4421984301 0.4295775793 0.5206180649
##
## 0.2831522446 -0.2704911481 -0.2598412825 -0.1372653057 0.0226185820
##
## 0.5640075880 0.4156202491 0.9004515419 0.9245880330 0.8198819442
##
## 0.9365904877 0.1129447204 -0.3310107526 -0.3203002856 0.0793676524
##
## 0.3909803855 0.3785852847 0.1215198946 0.5569423240 0.7325733051
##
## 0.6352843059 0.3467113790 0.1541303398 0.0905744625 0.0560532074
##
## -0.1642400124 0.1091266074 -0.1414181266 -0.4029052292 -0.7906371993
##
## -0.1934228739 0.0779527690 0.0210930333 0.0647216549 0.6489894501
##
## 0.8556975236 0.5178145676 0.5857465631 0.7712074376 0.4463564127
##
## -0.1031269687 0.4998860306 -0.4295434181 0.0606281169 0.7669658992

```

```

##
## 1.0250498839 0.6999118077 0.9450251217 0.6727820927 0.4056011508
##
## 0.2646914578 0.2625224499 0.1311804982 0.3016263713 0.3829651066
##
## -0.6126135577 -1.2332625784 -0.3608442622 0.0925420425 -0.2764052124
##
## -1.0320880318 0.1604199299 0.3401620199 -0.1180343072 -0.3764818709
##
## 0.4129730379 0.8984135713 0.3582378891 -0.2750826206 0.3663761686
##
## 0.4744227812 -0.2819781958 1.3574809604 0.7772674658 1.0324090107
##
## -0.3233730830 0.0464700489 0.7450237303 0.9720854139 0.4610438812
##
## 0.5411693992 0.1336349074 0.1890783697 0.5219887870 0.6541998820
##
## 0.5424416817 -0.1192103634 -0.5791842802 -0.6972319131 -0.7815400250
##
## -0.5331184500 -0.0424428432 0.0661324223 -0.4108436089 0.2228069647
##
## 0.4588693225 0.6237785359 0.8170685180 0.7386622790 0.1224677870
##
## 0.1694154939 -0.7772160470 0.1368191845 0.9311809647 0.2718475806
##
## 1.4192576598 0.9390082603 1.1213149669 -0.0062936704 0.0029162924
##
## 0.4455879796 0.4938996539 -0.0926031704 0.0126171157 -0.0174122712
##
## 0.1878063949 0.3392737070 0.4135878373 0.5452724313 -0.2580684970
##
## -0.6475087460 -0.5095737989 -0.0140202245 -0.3948360301 -0.3305050379
##
## 0.0320864901 0.1425917443 0.2653027275 0.9287889870 0.5451705529
##
## 0.4135082084 0.5304945490 0.4692498791 0.4113414264 -0.8563714668
##
## -0.2452683556 1.2444506315 0.8467596930 0.2108718920 2.0299831772
##
## 1.3607624253 0.6230427645 0.7014435562 0.0629169486 0.1309228536
##
## 0.2370703016 0.5249997125 0.9346560398 0.9506133510 0.1430239816
##
## 1.1986502220 1.3873906046 0.4809661979 -0.4062274006 -0.2139253985
##
## 0.0204169730 0.0660757250 -0.0051772296 -0.3738888726 -0.7965529562
##
## -0.5526174854 0.3356845872 1.0710004342 1.1530113150 0.1680970876
##
## 0.2647853781 0.7229948521 0.7944552508 0.3125480663 -0.3311271097
##
## 0.1358051318 0.7275409725 0.1667423184 0.4085346751 1.5416513731
##
## 1.8945191900 1.2102145961 0.6736268495 0.0865034042 0.5987999298

```

```

##
## 0.6121830972 0.3841376620 0.3276778855 0.6256107980 0.0928190623
##
## 0.7921557842 0.6025816691 0.0743053839 -0.1144141360 0.1817223853
##
## -0.0245511777 -0.1905003912 -0.4393208440 -0.5525962025 -0.1768783825
##
## 0.2393372861 0.8988973082 1.2516741508 0.6083077539 0.0448033409
##
## 0.4719047903 0.5971191437 0.0349621157 0.5437190770 0.8088679923
##
## 0.3295986560 0.2918976198 0.6589684922 0.9309415968 1.4543771791
##
## 1.4208390238 0.9544907747 0.2146304418 0.2903010353 0.3952503116
##
## 0.1936322666 0.1471992706 0.4252763543 0.0466943610 0.4158431583
##
## 0.0395518077 -0.1147353450 0.1643265664 0.4186927297 -0.6804754604
##
## -0.8283610372 -0.5930143086 -0.2532623775 0.1430521125 0.4220361438
##
## 0.9795541728 0.9491937668 0.2075157601 0.0289943163 0.6062241946
##
## 0.6733624732 1.1840039639 1.5222544779 1.2567144350 0.7320020060
##
## 0.6471678151 1.0830833669 0.8700142475 0.6088771742 0.5206614555
##
## 0.4170359332 0.1221060351 0.2471295700 0.2822402808 0.4700855955
##
## 0.6349173190 0.0859660020 0.3082993346 -0.0048177564 -0.1795866926
##
## -0.0433078873 0.1210163018 -0.3716961148 -0.4715175395 -0.7552287674
##
## -0.7075317758 0.1297087635 0.6103205124 0.3681928428 0.2559706167
##
## -0.0605453434 -0.3046358429 -0.0578340345 1.3735355930 1.7803208419
##
## 1.0223218557 0.8269877222 1.7320757464 1.3535819962 1.3358097764
##
## 1.1659010841 0.7878899906 0.6213476789 0.2951196681 0.1191241615
##
## 0.1131572901 -0.3838970019 -0.5201427566 -0.3151305124 -0.5028258044
##
## -0.7245521487 -0.3296323571 0.0436003805 0.2828807401 0.1627025300
##
## -0.4111890450 1.9893123941 1.6095462207 0.7597373653 1.8349624850
##
## 1.7164488258 1.8267572385 0.2170500452 -0.1133936163 -0.3470978321
##
## 0.2614865564 -0.0342876507 -0.5514633762 -0.7625126939 -0.7705992807
##
## -0.7526753489 -0.3961393657 -0.0507011295 -0.3373901685 -0.8777756396
##
## -0.4897691076 1.5371885293 3.1638406709 2.4613849352 1.2702889427

```

```

##
## -0.2368474613  0.6805127951  0.5779586483 -0.5060933691  0.0354130522
##
##  0.1483705812 -0.1006516657 -0.2165613280 -0.1432037973 -0.1182654997
##
## -0.3315105909 -0.5830600447  0.7267678789  1.5882160190  2.3402411654
##
##  0.1094933393  0.1065553568  0.1235726070 -0.1387904642 -0.5247426543
##
## -0.3107987626  0.0143242136 -0.3853170953 -0.0437582105  1.1187279854
##
##  1.8500170539  0.6506222678 -0.0069642440 -0.2488550560  0.1245553592
##
##  0.3561781369 -0.2259608899 -0.0814062354  1.1911235993 -0.0196300137
##
## -0.0328196442  0.1956699690  0.1340979807 -0.2621129369 -0.0184288350
##
## -0.0376882683 -0.0367861672 -0.1813912296 -0.2116615229 -0.0827171402
##
##  0.2800814635  0.7603594150 -0.5001870505  0.1253903917  0.3346343678
##
##  0.9510630021  0.8956585988  0.3502021072 -0.2550224043  0.2945397115
##
##  0.6558947663  0.7507662287  0.9688000063  1.2179933316  0.9096822247
##
## -0.1468292507  0.5700844052  0.5202458844 -0.1356406591  0.0700507971
##
## -0.5738197844 -0.5652456890  0.1861759384 -0.0385001998  0.3206594606
##
##  0.1768809061  0.1009498100  0.1306585062 -0.7114361671  0.2997965043
##
##  0.0741396933 -0.3146984875 -0.6706388331  0.2412989050 -0.1978842039
##
## -0.2035310463 -0.2039933612  0.3812430602  0.2143311879  0.3550745663
##
##  0.1047445778 -0.3938672822  0.4665283527 -0.2285377591 -0.1658818202
##
##  0.5040395579  0.4775122426  0.3829529920  0.9613846668  0.1778115171
##
##  0.5434617564 -0.2662625611  0.0470530030  0.3123468988 -0.3638694544
##
## -1.6274318718 -2.0282450952 -0.6324180461 -0.2388298137 -0.2093521424
##
## -0.1868636607  1.3808602203  0.8534448430  0.4586343033  0.8902786915
##
##  0.6661300825  0.9452123476  0.1476747513 -0.6749187937 -0.2009898305
##
## -0.1688842579 -0.4487179098  0.0424389881  0.6352956867  1.1540379853
##
## -0.0955143250  0.5676086603  1.0296276963 -0.0508451587 -0.1132408259
##
## -0.0990745966  0.0228783744  0.7222137401  0.5156097005 -0.1375892982
##
## -0.0158153164  0.0930830142  0.1452812341  0.2643831853  1.0798675201

```

```

##
## 0.7199750212 1.0526648252 1.0578264179 0.7085137356 0.1843515276
##
## 1.4931269936 0.3775881350 0.0871131150 -0.1930258401 -0.0844233202
##
## -0.1853940457 -0.2706591227 -0.2753282476 -0.1303848150 0.8717752361
##
## 1.9251867319 0.7923407403 0.7232827047 1.3481618740 1.0167762053
##
## 0.3442330015 0.1601776830 0.5287346014 0.3462522096 0.3879403649
##
## 0.3527250010 -0.2986304079 -0.5272376160 0.3371728732 0.9196324996
##
## 0.8483611235 0.4318595777 0.1749970000 0.6637197147 0.6530466407
##
## 0.6112029664 0.7785242174 1.8175684350 2.4812152066 1.5564737732
##
## 0.4547585682 0.6572261585 0.7875994623 1.0232528688 0.7101499194
##
## 0.1465846732 -0.1435425919 0.1697501644 0.2606116886 0.3973697495
##
## -0.0328127655 -0.4772694387 -0.6920762159 -1.3040029469 -0.9419711590
##
## 0.4898464913 0.5752239742 0.4263668762 0.6286334096 1.7054543191
##
## 0.8573887494 0.6385325411 1.2143271635 2.6563070065 1.7348427637
##
## 0.1251334029 -0.1923704707 0.7413213257 0.3587923646 0.6442607769
##
## 0.4621744286 0.0174753117 -0.0748058871 1.1102276776 0.2556637105
##
## 0.3953219334 0.4185611348 -0.1266944636 -0.6233504007 -0.1224090234
##
## -0.5257989037 -1.0260502041 -0.7046200866 0.1612897966 0.5404072641
##
## 0.7809879838 1.1374953272 1.7777427948 0.4476575182 0.2190747841
##
## 0.7019648260 1.4962938608 0.7133748667 -0.0435674337 -0.1673730579
##
## 0.3626520420 0.6790634424 0.5879755297 0.0012722437 -0.0031584431
##
## 0.2653108681 0.3724160931 -0.3302065550 0.2027677654 0.3879020529
##
## 0.1857854662 0.0928899870 0.5242867774 -0.2173532548 0.1405476388
##
## 0.1827806019 0.1947712802 0.3124701306 0.1289334084 0.7053169330
##
## 0.9748177702 0.9716947649 0.7624949947 0.7179472910 1.0147148052
##
## 1.1154445174 0.8564523360 0.0068631549 -0.1811439341 0.2044895477
##
## 0.7361870630 1.0610202277 0.5224517744 -0.1113018856 0.2146281821
##
## 0.3792604256 -0.0645785228 -0.3032658766 0.7215097216 0.5014202729

```



```

##
## 0.2679700509 0.2239085442 0.3941759431 1.4205671653 0.7550056471
##
## 0.1511787895 0.7026168426 0.8851976732 1.0105049454 0.9591732474
##
## 0.4486608818 0.5424225620 0.5568221931 0.6628640876 0.9789444573
##
## 1.3490376915 0.6817608952 0.0414900031 -0.3444999841 -0.5961845308
##
## 0.0044964935 0.7312008431 0.8358019363 -0.2009318399 0.1108514132
##
## 0.3933486561 0.4014018320 0.2048305381 0.2280749846 0.7994183545
##
## 0.4970906121 0.0534801836 0.2503460391 0.6776126073 0.8238825747
##
## 2.0523024011 0.9323186295 0.6608078894 1.4698625027 1.1843736809
##
## 0.8328826554 0.3820109978 -0.2987773903 -0.7807461466 -0.2115670695
##
## 0.3213989925 0.4598035174 0.5910163102 0.0497237433 -0.3724947158
##
## -0.4203509689 -0.3347347849 -0.4302485909 -0.0814647033 0.3033127618
##
## 0.0679530940 0.3324117344 0.3741337640 0.4700656753 0.5962001834
##
## 0.5114338115 0.5067747142 -0.1717830274 0.6346653070 1.3168895859
##
## 1.2884237436 2.1438456600 0.7124489005 1.4001867836 0.8797221362
##
## 0.0340849975 0.2797554767 0.5565012438 0.3031163228 0.3595702903
##
## 0.2091315399 0.7239745767 -0.0543135167 -0.2312786661 -0.3620578604
##
## -0.2195817177 0.2932897178 -0.4340571151 -0.9669593695 -0.1643373771
##
## 0.6568397533 0.6438788831 0.2780309185 0.3550018228 0.8205870097
##
## 1.5500863316 1.3977291896 -0.1504937940 0.6180057283 1.4753237862
##
## 1.2495444030 0.9602151504 1.9693668304 2.0028085034 1.3322472183
##
## 1.1159691638 0.4309730438 0.4280906506 0.4073521721 0.3519462568
##
## 0.3855135323 0.5750949548 -0.6623372189 0.0037634066 0.1374425443
##
## 0.1410218450 0.1872803206 0.1142344887 -0.8752852258 -0.0926670254
##
## 0.2848756918 0.7581677043 1.1381559983 0.8599456963 0.4583047208
##
## 0.3126698417 0.7959309236 1.0530478499 0.5749591320 0.8019913256
##
## 1.1558863278 2.0353081554 1.9548729120 1.0871212903 0.0450735071
##
## 1.1791767947 0.8263263005 0.1747230461 -0.1302755957 -0.2534734425

```

```

##
## 0.3556232910 0.4430738906 0.3038656982 0.0615512873 -0.2379320076
##
## -0.6640717978 1.0505780027 0.8559275948 1.0953319452 1.0394655728
##
## 0.8588465828 0.8682612392 0.8363076026 0.5457166103 0.7481493873
##
## 0.8831110492 0.6438563163 1.7831261247 1.8979351875 1.0286080050
##
## -0.2812448762 1.2580146696 1.0403573460 0.3231303821 -0.2562389465
##
## 0.0715177467 0.3012736572 -0.2949714700 -0.0960443136 -0.1010621149
##
## -0.3835252985 -0.3935735282 0.6936832984 0.6364705856 1.1275684827
##
## 1.0739179611 0.9432382668 0.8978137036 1.5896683571 2.5827878124
##
## -0.0440050922 1.3819406740 0.9077823693 -0.3963053139 0.4118963733
##
## 0.6309696648 0.9566574947 0.7302342691 0.1318669773 0.2674727712
##
## 0.3013957142 -0.2787623492 -0.2541939627 -0.1841242235 -0.2910615275
##
## -0.3165253505 -0.4193975019 -0.0812168100 1.1517975985 0.4013372902
##
## 1.0729284119 1.3398894697 1.1216299225 2.2598193519 4.7446189767
##
## 1.6810892715 0.1540684090 0.4366528311 0.4893363429 0.6293301856
##
## 0.2623389353 0.1404028383 -0.1810225550 -0.5541679943 -0.4685895757
##
## -0.3056297245 -0.0764550679 -0.0387199247 0.2178204684 -0.1307219819
##
## 1.4519367414 0.6581864264 2.9140398020 1.1817655805 1.1682003769
##
## 6.0183588449 2.8117803155 0.7406530598 1.0826191786 0.5981864851
##
## 0.3378707892 -0.2283200459 -0.8097289036 -1.0554007645 -0.8883285551
##
## -1.8374093496 -1.6314447675 -0.4539005427 0.2691620775 0.2462509441
##
## 1.4490430640 4.1493504126 5.1050652968 2.7330778109 1.4580752875
##
## 1.7722351246 0.9281944959 0.8024196747 0.8481686112 0.4607205342
##
## -0.7108858569 -1.1562555695 -1.8396843552 -2.4658344149 -1.9730514945
##
## -0.7598418416 0.6852875517 1.7850117839 3.4706377997 2.2632520127
##
## 1.1702909951 0.4099905229 0.7157198777 -0.0273434532 -0.8431615088
##
## 1.0720785952 1.4373291998 1.8372495286 3.1442728538 1.6425730860
##
## -0.4177601729 -0.4173763594 0.7442044276 0.4022657820 4.4141147112

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```

##
## 0.1335566564 0.1373853452 0.2431910406 0.1046474672 1.5538396965
##
## 0.4634027575 0.4715464133 0.7228344101 0.9305734163 -0.1539923030
##
## 0.5865465358 0.3921738218 0.1186734735 -0.4027281434 -0.8020763046
##
## 1.2992641448 1.0338871469 0.5011741744 0.1156094399 0.1247188674
##
## 0.3226475375 0.2959648604 0.8108495097 0.5828434193 0.3054925268
##
## -0.2656722962 -0.4420931552 0.0586538433 0.4134990130 -0.2187749063
##
## 0.2886889381 0.5369724293 0.1886281487 0.1165152087 0.0336730703
##
## 0.2935233118 0.8843638259 0.3246844029 0.4715080710 0.1116181788
##
## 0.0718300375 -0.1994382097 -0.0419467463 0.0807894565 0.0917689418
##
## 0.2932255338 0.5735549385 -0.0244264493 0.1098153423 -0.0486442861
##
## -0.0418997883 -0.0207301436 0.4846686773 0.7763897408 0.4670651254
##
## 0.3275567192 0.1969138427 0.5652170643 1.0594106543 0.2604435752
##
## 0.5318763959 -0.2983826194 -0.6159524403 -0.2285115420 0.3357111001
##
## 0.1960627622 0.0632652869 0.1323094697 -0.1468581953 -0.1006245347
##
## 0.4317929462 0.3789801096 0.3402155297 0.0746477669 -0.2031713258
##
## -0.4722788650 -0.2773489338 0.2160512800 0.4285922695 0.3766239217
##
## 0.0191854629 0.0795699496 0.4673536371 0.2877714804 0.1028867391
##
## -0.5203439767 0.2463153048 0.7901989159 0.3628751987 0.1154808148
##
## 0.2515202277 -0.0131783297 0.0148673021 0.2025612077 0.2871450795
##
## 0.3527262088 0.0898623877 0.0331593930 -0.0793511162 0.6123736266
##
## 0.0919556260 -0.1075348284 -0.1094406832 0.0416802001 0.3102337122
##
## -0.6407526121 0.0156702271 0.1770576566 -0.1250991117 0.1926604383
##
## 0.4957259760 0.0748791310 0.0879006899 -0.3833107047 -0.1006886819
##
## -0.3271651394 -0.0038955612 0.1949581390 0.8080849936 0.1609933431
##
## -0.4336010695 -0.0561138171 -0.1614269588 0.7184952347 -1.2938761594
##
## -0.0697938193 -0.1494369200 -0.6911425886 -0.1542647953 0.1801713828
##
## -0.4506391458 -0.3996013971 -0.1731747525 -0.7127772738 -0.5131372083

```

```

##
## -0.4872433786  0.0764182126  0.1311566268  0.4095756015  0.0843782792
##
##  0.6837579011  0.9665913034  0.0166997625  0.3598439050  2.4988463845
##
##  1.9840867440 -0.2534383927 -1.0818813459 -0.0002592268  1.2549940467
##
##  0.9763232483 -0.2246625602 -0.9699439458 -0.3220895648  0.1754945976
##
## -0.1020968373 -2.0540935255 -1.4860471610  0.2379786632  1.1049772725
##
##  1.4348150767  1.2520318420  0.5929433197  0.7036967034  0.1395728218
##
## -0.9413028423 -0.1421453824  1.0032305354  1.4668831812  2.0599834470
##
##  0.9300179238 -1.3477669072 -0.8868530480  1.0127709997  2.3712128941
##
##  3.0521274445  0.0308437118  0.7756222837  0.8897217398  0.3062621805
##
##  0.0478424294  0.2946986020 -0.5607698574 -0.2074377333 -0.7376852908
##
## -0.2724136169  0.5240095387  0.3533391134 -0.3234496269  0.1919848331
##
## -0.0923503038 -0.7138186527 -0.4411708182  1.5955894302  0.7831426648
##
##  0.2179662760  0.0891946101 -0.2506365071 -0.5244209163 -0.4456619260
##
##  0.1017382337  0.7824915877  0.6599055607  1.2453862026  1.6470518463
##
## -0.9808644358 -0.3459276261  0.2631709656  0.5436253147  1.7247270226
##
##  1.6089931482  0.5379876899  0.5951642908  0.5691092245  0.5232371137
##
##  0.5486761311 -0.8594515725 -0.8178225492 -0.0823666563 -0.1633069371
##
##  0.0295252920  0.3199589276  0.3299124752  0.4573183214  0.5068333803
##
##  0.3860374875  1.5293118950  0.5344172068  1.3637577931  1.8762911105
##
##  1.7770655894  1.4592188752  1.4229694832  1.4294563767  0.0255774017
##
##  0.3449715073 -0.4049356375 -0.4020469673  0.0326566956  0.2956265731
##
##  0.2920800226  0.3006383840  0.2704210314  0.2047342059  0.6396715817
##
##  2.4821006797  1.2311007822  1.2474192357  1.3347537905  0.9716919196
##
##  0.8058877346  0.8896655914  0.3961932351  0.8759851792  1.7932955613
##
##  0.9124081132  0.2643335933  0.0875965637  0.2812793488 -0.2081171758
##
## -0.0558310782  0.2380215233  0.3648982435  0.8650656890  1.0323531640
##
##  1.1635451894  1.1825537442  0.4561971805  1.7041334787  1.6896230333

```

```

##
## 0.9901384551 0.9092606407 1.2653718480 0.9234930877 0.9318443019
##
## 0.7271622169 -0.3420350045 -0.0811850735 0.9485906881 2.1774593055
##
## 1.0376761557 0.7850418764 0.2154921241 -0.1263121997 0.1191023274
##
## 0.5338202209 0.3821515364 0.1774128750 0.2029729230 1.5198324149
##
## 1.2359423977 0.7783641487 0.5252616637 0.4281110743 -0.0009054194
##
## 0.3306546854 0.5652452930 0.7800435495 1.2502507360 1.0137890199
##
## 1.1041713764 1.0741843274 0.9312371153 1.5671748697 1.5004522953
##
## 1.1275819422 1.6728647158 1.6685033574 0.7517037525 0.7607379076
##
## 0.2735227536 -0.0573836896 0.3872867717 1.2095422943 0.5735601653
##
## 0.2092346684 0.4006343585 1.0367725307 0.6276697212 0.6115504593
##
## 0.5647313489 0.3438237539 -0.3662249814 -0.0467783860 0.4156552772
##
## 0.7411184282 0.9035602679 0.8709781632 0.5246646630 0.6230530672
##
## 0.9119779056 1.2793319273 1.3100345906 0.2185916771 0.6320486128
##
## 1.5789457524 0.5103244105 0.8754259243 0.5369742762 0.6821078936
##
## 0.7313923074 0.8266760337 0.9907564171 1.0864722997 0.6773124492
##
## 0.4580733644 0.4983774442 0.7335413263 0.6777918127 0.6746495166
##
## 0.6065942901 0.3136754469 -0.1889337370 -0.0365464329 0.5675985272
##
## 1.0148975319 0.9019876057 0.4667876039 -0.0343131941 0.3420511932
##
## 0.7115316057 0.6428224952 0.6376017500 1.2578427777 0.5286673854
##
## 1.2006157037 0.6333994551 -0.4472712408 0.9842193959 0.0488506858
##
## 1.1425259018 1.0663985648 0.8278950878 0.6912065326 0.3285633261
##
## -0.2784460629 0.0251946632 0.3936276151 0.5585301228 0.5192989515
##
## 0.6594949604 0.5296170364 0.1498853985 -0.2728099162 -0.6804537995
##
## -0.1422538850 0.3618128419 0.5069450373 0.1791733685 -0.2306300908
##
## 0.0614708232 0.4890686575 0.5236242151 0.6497507351 1.7743083051
##
## 1.3552961983 0.7936510880 1.1947027229 1.1242983091 1.3207369756
##
## 2.6773255991 1.5202713275 1.2734380011 1.2334500295 0.6569856696

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```

##
## 0.6488913283 0.6770124346 -0.0118302114 -0.4965592214 -0.1318164724
##
## -0.0247314383 -0.0444904679 -0.0484663013 0.3404853421 0.0969864251
##
## -0.2356121419 -0.1377182050 -0.0375292993 0.2996638274 0.2525476472
##
## 0.0035446816 -0.2403946976 0.0272251523 0.3824260173 1.1346585788
##
## 1.9675786962 1.2784796904 0.7760382483 1.7227800452 1.6835496231
##
## 2.1644575300 2.2067345529 1.3826201314 1.4074886859 0.8877156221
##
## 0.2531580768 0.5054377279 0.6847010307 0.1305133664 0.2571741461
##
## 0.0873160686 -0.5709873175 -0.3734749815 0.1866883032 -0.0137330790
##
## 0.1045640916 0.3839921864 0.1841208613 -0.1529773220 0.6172613058
##
## 0.7385091276 0.2730161829 0.1339864022 0.3630863847 0.6717201800
##
## 1.0523344518 1.0861843990 1.1715487585 1.4246943721 1.3380191842
##
## 1.5761144029 1.8981025882 0.5391031046 0.7511022434 0.8625100790
##
## 0.4083591016 0.1387058947 0.3036294217 0.6159768760 -0.2269060220
##
## -0.1919973073 0.4515382992 -0.1256595177 -0.1322792437 0.1087202184
##
## 0.2524367552 0.4172742013 0.6524498942 0.2467346910 0.4420030427
##
## 0.4040815433 0.5924648980 1.0157813755 1.1863676594 0.4004924813
##
## 1.0605324454 -0.4508894537 1.3883097722 1.1074848458 2.1504167038
##
## 1.0313020273 -0.0554161539 -0.3784962639 -0.2270002491 -0.2522166254
##
## -0.1984387391 -0.0762687280 -0.1792879156 -0.0786266057 0.0567029672
##
## 0.5096475092 0.2466021803 0.3476363878 0.5472657836 1.2824445329
##
## 1.3251693716 0.8138040204 0.5329586121 1.2281465189 -0.8019675942
##
## 1.6526395384 2.0589963437 0.9213844816 0.1449824027 1.3042341610
##
## 0.5674467157 -0.0016236711 -0.1429898685 -0.1504378863 -0.2008226623
##
## -0.1460709115 0.0210519625 0.3080880513 0.2721901332 0.3927074684
##
## 0.3249386518 0.2633330040 0.4822033798 2.2079089842 1.5067471290
##
## 1.0240723825 1.0439233588 0.9534500899 0.6690536402 2.0316130219
##
## 1.4233264361 2.3179749232 2.8828132027 2.4538945608 0.9217294090

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```

##
## -0.3122048950 0.6668579731 0.4852182573 0.4441647296 0.3817129413
##
## 0.2019144392 0.2398617957 0.0410765822 -0.0328827293 0.1148186426
##
## -0.0344667470 0.5587502349 0.8364621672 0.1639079947 -0.2150077109
##
## 2.7071139540 0.7786028613 1.8818596228 1.3480021860 0.8769801966
##
## 2.9388120800 4.1827556515 1.4603816572 2.1838069609 2.9321505476
##
## 1.8931923500 0.2501995102 0.9726569683 0.8001308026 0.7088603351
##
## 0.6811165863 0.7839998557 -0.2930711072 0.4812048975 0.3568947690
##
## -0.1290686408 0.2741116328 0.4023228986 0.8460358147 2.8056273892
##
## 2.4271315778 3.6721158375 0.7365366225 1.2869851537 5.3233505683
##
## 4.4550161611 1.7256391035 2.0959744400 0.8252775635 0.0813211051
##
## -0.0594514669 0.0481557006 -0.5806029638 -0.1374645944 1.1428740231
##
## 1.3678574735 1.9741616830 3.6993206567 6.2614406773 3.4810847357
##
## 0.9447386839 1.2086489906 2.3776789639 1.9308843564 1.9399967478
##
## 0.7364130563 1.9873991826 0.9511918326 -0.0113975670 -0.4143250180
##
## -0.3974178533 0.6258957442 1.4360384476 2.4633283538 3.3769722196
##
## 3.5207737640 0.9175745057 1.7484807176 2.6029452002 0.3090296644
##
## 0.0749122791 0.3545774312 1.3683599905 1.5602864723 0.3014914288
##
## -0.2341062656 -0.1552395323 0.6750258640 1.4109312055 2.0139151907
##
## 1.7826599150 1.0127345569 1.3079104555 1.2413190330 0.1716752827
##
## 1.2402187940 1.4197145460 1.3844433199 0.5483201350 0.4688059588
##
## 0.4347444241 1.6866745735 1.2948908371 1.0620679975 0.6474192529
##
## 0.0557976771 -0.3687660981 2.0723558646 2.2405625749 1.1018859348
##
## 1.0823782734 1.1560149504 0.5669429435 1.8079345322 0.7111126045
##
## 0.7114306685 0.4445181329 0.0748661621 2.0853051540 1.4077675786
##
## 2.4527248779 2.0385495002 0.8172814581 0.2200763584 1.0766509167
##
## 1.1234976206 0.6108530967 2.8810612311 1.0285954443 -0.1374924340
##
## 1.2009037044 1.4152219438 0.8957035238 1.4189870797 -0.1915758889

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```

##
## -0.4375291174  0.2451439685  0.2125370143 -0.4667059841  0.0552864422
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##  0.7859670484  1.1126539944  0.0870128092 -0.2264449526  0.0502625222
##
## -0.0134420593 -0.6257212919 -1.5124392335 -0.7439155883  0.1616033526
##
## -0.7522080539 -0.0881513316  0.7304462072  0.4202054503  0.8570614858
##
##  0.6781024476  0.2216718276 -0.0810478787 -0.7195818348 -1.0027268271
##
## -0.7344000870  0.4892119928 -0.3607106888  0.1026428142 -0.2286212788
##
## -0.4545835934 -0.3745880869 -0.2164147879  0.0167737566 -0.3405257865
##
## -0.5719731499 -0.3417143102  0.5998000730  0.7158728608  0.7704450134
##
##  0.7402254754  0.4391123389  0.1501049445 -0.0545790107 -0.5381890719
##
## -0.9143465386  0.3824217911  0.7066675351  0.3027978968  0.0357709425
##
##  0.7891548959  0.2778556550  0.1894765259  0.2338583419  0.0875892412
##
##  0.4277713617 -0.5602946045  0.0368499069 -0.0766479176 -0.2673748324
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## -0.2799595602 -0.0088690667  0.3231561589  0.3848940128  0.8123030060
##
##  0.4514987426 -0.0505987438 -0.5477715257 -0.5942787953 -0.0093261730
##
## -0.0571793326  0.0376146810 -0.0556220045 -0.3852791787 -0.0013901771
##
##  0.5813262736  0.7999946744  0.9532311788  0.3886241594  0.2537424552
##
##  0.3116934752  0.1925869105  0.2045525264 -0.3383567368  0.2762574295
##
##  0.3212790497  0.3409405694  1.4591762371 -0.0593881698 -0.2224404976
##
##  0.1172861499  0.5121227105  0.6381703994  0.2412146772 -0.1234482834
##
## -0.1124683295  0.3105636619  0.6317027758 -0.0545248378  0.4920100156
##
##  0.5031762865 -0.0075947836 -0.1262133663  0.6725791434  0.5468858625
##
##  0.3652949505  0.2273935694  0.2278273141  0.3262005079  0.3375259457
##
##  0.1669971516 -0.1421981292  0.0476928094  0.2075734032 -0.2878723301
##
## -0.6023841464  0.0151382429 -0.3075529459  0.0797713636  0.6952577662
##
##  0.7335898148  0.9541603021  0.3731812067  0.0707636958  0.4841727120
##
##  1.0638374002  0.7449427637  0.2638414869  0.5404243835 -0.0394679933
##
## -0.6734652130 -1.0391879286 -0.3075986953  0.2927354944  0.5399415411

```



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##
## -0.0740994345 -0.0537555682 0.1494221901 -0.5512776834 0.2756102547
##
## 0.7635496727 0.3910529768 0.4409545025 0.3234766086 -0.4354311815
##
## 0.1712112988 0.0631489022 -0.1753282643 -0.1888628293 0.1005082951
##
## 0.3809237791 0.4782270661 -0.2301631495 -0.2224805741 0.6874754714
##
## 1.3720492881 -0.0457865720 0.5038377926 -0.1022457320 -0.3230982687
##
## 0.0829068299 -0.3361856953 0.3670464834 1.8285341827 1.3981802142
##
## 0.2592060615 0.0156720679 0.6223855087 0.8144342608 -0.0525556719
##
## 0.1476845508 0.1889410728 0.6865347517 -0.7850327200 0.5767181631
##
## 0.6571529769 0.2689288190 -0.0892881944 0.0279207802 0.9265221297
##
## 0.8968681199 0.8822353150 0.2215031527 -0.4460454068 0.7549486041
##
## 0.7261963754 0.6042454138 0.2872273468 0.6710875406 1.1770094532
##
## 0.7206760321 -0.9669077455 0.0373405367 -0.0275703392 -0.3770549185
##
## 0.3072397456 1.2074491775 1.0337781879 0.3952589246 0.0418000291
##
## 0.9412419598 0.8264728292 -0.1535795659 0.3010480118 -0.9201286874
##
## 0.2172647174 0.7508522380 0.6428150935 1.2818862316 1.0604329664
##
## 0.1645837064 -0.2203236897 0.0168409579 0.2123693529 -0.0860566433
##
## 0.2336117757 1.0106308345 0.4362310804 1.1694494665 0.6364988560
##
## 0.4611320071 0.7900092560 -0.0804481117 -0.4596993068 0.7531525528
##
## 0.4598683788 1.8675722204 1.5276773733 -0.6122911669 -1.0496537662
##
## -0.0475033342 0.7811686376 -0.2726174592 0.1644573548 1.2986066760
##
## 0.4107228543 -0.6698471824 -0.4403699133 0.3606899672 0.5631307405
##
## 0.7135518582 0.8983609738 0.9633482289 0.6613250925 0.4965591195
##
## 1.1006868988 0.4653882814 -1.3015196237 -1.0938640207 0.0606759099
##
## 0.9620673433 1.4157316345 0.7485146886 -0.6587764679 0.4743706807
##
## 1.1734611875 1.1363793852 -0.0226518098 -0.0332153415 0.6244663550
##
## 1.2546111252 1.8147157507 0.0063687091 1.0961800942 0.8161704482
##
## -0.4124185323 -0.6308260424 0.2598170698 0.2524799990 0.3698661691

```

```

##
## -0.0871092236 -0.3432906929 -1.0690830256 -0.5680352900 0.0236621816
##
## 0.1828281627 0.2370032184 0.2763219414 1.0944291683 1.0331730946
##
## 1.3668130200 0.5409013212 0.6130940469 0.4677362170 0.3467260260
##
## 1.8819914942 1.1923437320 -0.8706820282 -0.4150067399 -0.1318817870
##
## 0.0366552754 0.1662995014 0.0573616587 2.2402612295 3.4250960010
##
## 3.7314807786 2.8371185275 1.9502736757 1.2697049655 -0.0646151840
##
## 1.0283581760 1.4267688388 0.7407420713 0.8085973763 0.4194300868
##
## 1.0383110842 2.6778246859 0.1518888037 1.3969583625 1.4474366947
##
## -0.4286811118 0.5002376558 1.2881105289 2.0329653588 2.1435985685
##
## 1.5731887419 0.7364699786 0.1220798672 0.4028272853 0.6837222488
##
## 0.1247948546 -1.1365576146 -2.3187538509 0.1728677041 0.4445014960
##
## 0.4176108628 0.3680075886 0.7581248168 0.2098997709 -0.2133472951
##
## -0.3517386012 0.3361863979 0.1207070020 -0.3909119653 0.0430344205
##
## 0.8695504934 0.9138324999 0.3689381809 0.4573495137 1.0688957989
##
## 0.8021774489 3.0653029300 4.1046779311 4.0554466411 4.1144168723
##
## 3.7626075391 0.0049440073 -0.5139386092 -0.3627372958 0.1683334383
##
## -0.1020425385 0.1771973525 0.4172699014 1.0828586349 1.8919969266
##
## 1.5308549712 2.7822821531 1.6598077378 2.7194349996 1.6416829205
##
## 1.4173310151 1.7093663741 0.9307194221 -1.1659653088 -2.1146026038
##
## 1.6501948499 1.0363628590 0.3446268220 0.3321606707 0.4451260212
##
## 0.9552872686 0.9252219950 0.9931928143 1.3173575931 1.2292007825
##
## 1.6827788006 1.3141419345 0.6623869130 2.2514921102 2.2842650810
##
## 2.4763071620 2.6551480719 2.3729123357 3.7665953518 4.9732783617
##
## 4.0810301101 1.8841401957 -0.7303307599 -1.5662024083 5.0448354478
##
## 4.1414697069 0.9809840601 -0.2442113080 0.5329736738 1.1315438734
##
## 0.9216035038 0.7077220820 0.6733645183 0.8424286196 0.0984032472
##
## 0.0556298857 0.6256860417 0.9761678547 0.7134202201 1.4443593344

```

```

##
## 2.1110461619 2.7649365320 3.7670042325 5.5596904214 5.3455769436
##
## 1.5225639140 1.8564414905 3.4341091892 2.6410261334 1.5064436868
##
## 0.6524458243 1.4491030346 5.2868647393 3.7881105254 0.6795869961
##
## -0.2700076958 0.2482379487 0.5814182790 0.5182522534 0.3531128725
##
## 0.4539288123 0.5432467644 -0.0528258007 0.1572980207 0.6607398226
##
## 0.7479900880 0.1730877335 0.7073425484 0.7609782790 1.2361965898
##
## 1.9317055439 2.8147286375 2.7261316968 1.1410027684 0.9378929848
##
## 2.3726524895 0.8117099516 0.5879730090 0.5224140756 1.5044748420
##
## 3.5284045346 2.4730821959 0.3777502689 -0.0658114599 0.1209931407
##
## 0.1960170747 0.2511753546 -0.2745503775 0.0336645281 0.5174671389
##
## 0.0428620726 -0.0588206281 0.3304265635 0.1643490793 -0.3117669755
##
## 0.2061964407 -0.4575102971 0.4149240075 1.7391395536 1.8352746629
##
## 1.3497109895 3.2152568766 1.9481484073 1.6212707339 1.8017731158
##
## 0.9670711626 0.2833295723 0.2911617026 0.8652797015 1.4389950018
##
## 0.6248671019 -0.0013525149 -0.0550531830 0.0682649108 0.3079460126
##
## 0.8168481229 0.1618357995 0.2642268371 0.3954127918 0.0504998589
##
## -0.4032575859 0.2059774885 0.0077257597 -0.3090416023 -0.0072929964
##
## -0.4970178613 -0.2822244314 1.1079819571 1.1623807817 1.4512232410
##
## 4.6463918579 3.8706705827 -0.4756148657 2.4430857072 2.8043986347
##
## 0.9208263071 0.8369447449 1.0052390442 0.7422116050 -0.0850540344
##
## 0.0918385711 -0.3334732589 -0.6421076367 -0.5456401699 0.0669992979
##
## 0.2921604925 0.2062980527 0.1043910622 -0.0903011325 -0.3413182544
##
## 0.4878618221 0.4674527101 0.1251722435 0.0405706489 0.1936146697
##
## 0.1837107218 1.0394109464 0.9344852814 1.6518178669 3.6074261551
##
## 2.7531646096 -0.4827899552 1.0643187043 2.4978840110 -0.6558557938
##
## 1.8145622756 2.3336396909 1.8040825827 2.5219158186 2.0938437684
##
## 1.0012534437 0.2301830534 0.5778372584 -0.2477100687 -0.4032546764

```

```

##
## -0.3222935789 -0.0537067586 0.3085259847 0.0123921462 -0.1657498772
##
## -0.1231589185 0.0540600923 0.4266651693 0.3396391733 0.2363377779
##
## 0.3410383918 0.7277159681 1.0466183733 1.1739210201 0.9680020499
##
## 1.3890858516 1.7034216987 1.4738383693 0.9837767457 1.0203249968
##
## 1.5858241600 4.4007141222 0.6728668613 1.5249961945 1.1287040646
##
## 1.7827439799 2.2923059027 1.6008941901 0.6539906341 0.2072876688
##
## 0.2291390230 -0.2196767686 -0.0826172007 0.0566087419 0.1118879306
##
## 0.1758643744 -0.3682853948 -0.3929725130 -0.0345161378 0.2818966389
##
## 0.2192793076 0.0766508557 0.2050105390 0.6313752061 1.2896110946
##
## 1.0763350915 0.3713029879 0.7355790384 1.6095273042 1.4783053957
##
## 0.7117648462 0.5947905917 1.3639831122 -0.3087371112 1.4859790418
##
## 2.7032002967 1.7470559021 1.4838592467 1.7841432855 0.8967134387
##
## 1.3172985644 1.8465119941 0.9491875078 0.0782739807 -0.1789343651
##
## -0.2048884886 -0.1923454621 -0.1111842558 -0.0152175556 0.1067252624
##
## 0.2729115338 -0.0192024676 -0.1351651544 0.1266677330 0.5183667671
##
## 0.5104369939 0.0681490366 -0.0088210675 0.2530960102 0.6262847155
##
## 0.6056570938 0.1049461559 0.5006259284 2.1325917653 1.8317033611
##
## 0.8499345152 0.7668279772 1.0267379700 -1.4812337380 1.3453322364
##
## 2.2897102499 3.3901623484 2.5356337045 1.9506118679 1.3291706114
##
## 0.6490462140 0.2466103824 1.0143968413 0.2016019090 -0.4513695207
##
## -0.2848048770 0.1977583226 -0.3930744541 -0.1506525272 0.1781425334
##
## 0.4476305701 0.6858807106 0.0674352013 0.0347429375 0.3949580546
##
## 0.7006405645 0.0572615709 0.1300337291 0.1684123574 0.6579966531
##
## 1.1661445951 0.4470168309 0.8630996696 3.4989177931 2.2749784770
##
## 1.6125068461 1.2466401495 0.5431697429 0.3364072257 1.5413732441
##
## 1.3377523786 0.8706986728 2.6652205977 3.0379027453 2.1501786954
##
## 0.7920831918 0.6290762031 -0.5677193918 0.5544072369 0.6424246856

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##
## 0.0672273446 -0.4873647769 -0.4760988566 0.2284098455 0.4236127380
##
## 0.3308877448 0.4849920016 0.8590495311 -0.0798126918 0.1471306578
##
## 0.3424052830 0.2408319896 0.5280742772 0.0140868531 0.2009836429
##
## 0.3465347882 0.6150333595 0.9238538281 1.8302870007 4.2016339793
##
## 1.5218142711 1.8588555148 1.6962458448 0.9336760298 0.5867343880
##
## 0.7905902623 1.4924530070 1.7090759632 1.5636824614 0.9253824902
##
## -0.0581221777 0.1176960301 1.3299040711 1.8557308014 1.3759722051
##
## 0.4415425572 0.0181672572 0.4719522984 0.0682614118 -0.1105837387
##
## 0.2291117139 0.8575264154 0.6800603355 0.7139424772 0.4771003996
##
## 0.6363710910 1.3366198993 2.1722654211 1.7304295351 0.2455332541
##
## 0.9038338425 0.3073391005 0.3086347304 0.9654316183 1.4318534754
##
## 1.5152865756 1.9680973892 1.5973637289 0.9682562985 0.6904096898
##
## 0.7809088461 1.3014487320 1.6256981282 1.2956675032 0.8607426628
##
## 0.5904142552 0.3913090426 -0.3042370001 -0.3883261456 -0.1562573199
##
## 0.2465310572 0.4185429388 0.0170530883 0.3096693983 0.8299089737
##
## 0.8981868134 1.3021919222 1.6101464297 1.6666071502 2.0190384900
##
## 2.1433994349 1.5465925321 1.0475210114 0.9976722717 1.0137164235
##
## 0.9586256407 1.8333161425 1.1598224486 0.5624935369 0.6444191183
##
## 0.4895608648 1.0631579727 0.8536399903 0.8085067951 0.7670596410
##
## 0.4177302935 -0.2579141538 -0.0212066482 -0.3242564109 -0.0754722353
##
## -0.4517577966 -3.0490867166 0.1989604399 0.4775545328 -0.1400351214
##
## -0.3455040695 -0.0318410248 0.0897289711 0.5028587453 0.8235066492
##
## 1.3997237786 1.8311735595 1.6344470981 1.1947686273 1.6016441090
##
## 1.3531784685 1.2435013295 0.7701650596 1.0994118037 0.7489910325
##
## -0.1143716671 -0.4417626633 0.1561212404 0.7932691849 1.1691590535
##
## 0.7132480081 0.5104125247 0.5603020230 0.0158105125 0.2793529287
##
## -0.4399638028 -0.0347774723 -3.7272704991 0.2404898253 0.0018907360

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```

##
## 0.2641516110 0.5187164340 -1.3035953864 -0.2756426438 0.8506142727
##
## 1.1588604976 1.4095604732 1.1415344675 0.5455119236 0.8293930992
##
## 1.0229212990 0.5144390792 -0.0444598547 -0.2323213521 -0.2648322550
##
## 0.5340512790 0.7566252151 1.3016983858 0.9228661575 0.9239799790
##
## 0.9119127758 -0.0467212763 -0.5824878022 -0.8985666587 -0.4087710824
##
## 0.4165403951 0.8516393791 0.7947484694 0.4542965893 2.2952588364
##
## 2.9227881757 1.2978686458 1.2156477973 0.9553472964 0.3952159705
##
## 0.0225027204 0.6077693215 -0.0086607944 0.8329123253 0.6548847838
##
## 0.2135452045 0.4962740535 0.7424168255 1.0958675043 1.5483473173
##
## 1.6393499826 1.2589040174 -0.0002418723 -1.4391583467 -1.2595191890
##
## -0.2451791389 0.2709684272 -0.0498684259 -0.0147659064 1.4869858697
##
## 3.0710249669 0.8659920251 1.3564339041 0.6793638170 0.0958075568
##
## -0.0325763780 0.1249743212 -0.8978464119 0.5303294093 0.7850116725
##
## 0.6338189736 0.1856694385 0.1224578525 0.5282305454 0.3332771984
##
## 1.3668290412 1.1359602200 0.4323179431 -0.3332790235 -1.0731852999
##
## -0.9884589840 0.5752112374 0.4700993470 0.8211484900 1.2509578671
##
## 0.6294658710 0.9132886785 -0.0412269441 -0.2300659058 0.1155009120
##
## 0.2961304248 -0.9383935958 0.0411528145 -0.5560359518 0.0098644029
##
## -0.2171450573 -0.0853876197 -0.066826573 0.0308445941 0.3923377459
##
## 0.4927255948 0.0931398930 0.6016772161 0.2211562837 -0.4949618445
##
## -0.7086762186 -0.2889625934 -0.3104197755 0.3719165405 0.7239741579
##
## 0.5520268311 0.5472152207 0.3350308872 0.1677196263 0.5362065570
##
## 0.3387555551 -0.3749011110 0.2981151166 -0.7246297616 0.0140803201
##
## -0.1691619360 0.4611248713 -0.6248212287 -0.3057233104 -0.3563477623
##
## -0.4795062878 -0.1688991140 0.5107728503 0.6670290621 0.1933173865
##
## -0.2522632920 0.0335167993 -0.5173840196 -1.1629200760 0.4448602257
##
## 0.1703935147 -0.1020495367 0.2783485121 0.5276753080 0.1619314967

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```

##
## -0.0182938593  0.3531786316  1.0551711178  0.8996387383  0.1148850092
##
##  0.4768898767  0.4538221672 -0.2274323999 -0.3521078787  0.0054183158
##
##  0.3883281191  0.2196051616 -0.5235114213  0.3085439974 -0.0783457085
##
## -0.3347297441 -0.3888631852 -0.4949334112 -0.2438702086 -0.4534169741
##
## -0.7305273862 -0.9411913086 -0.0278337905  0.4426793724  0.0302500912
##
##  0.2559895272  0.7038816019  0.9240866867  0.5439387541  0.0678970510
##
## -0.0242771599  0.1184067408  0.2552344291  0.0838637575 -0.2922050608
##
##  0.0801142589  0.1374919816  0.1019391213  0.4141292780  0.0478486685
##
##  0.0313298582  0.2968259142  0.0141638284  0.4023006209  0.2082182198
##
##  0.4278982505  0.6321419871  0.4379487227  0.2968806996 -0.6448480344
##
##  0.1335755123 -0.1841031471 -0.0302267725 -0.2060434103 -0.7046152409
##
## -0.2519894512 -0.0455249449  0.9460815633  1.2529724534  0.7187584971
##
##  1.0552764877  0.2156656135 -0.2921916935 -0.5386415894 -0.4933477607
##
## -0.2872852607 -0.2299388896  0.2782234300  0.4231531859  0.5794590809
##
##  0.7716536667 -0.0083141643 -0.1658679856  0.2947781593  0.1885464653
##
##  1.2189332043  0.5464992112  0.6432985012  0.7933636988  0.3838639017
##
##  0.2215421346 -0.7286495838 -0.1749879818  0.1594233440  0.1583259425
##
##  0.0269006582 -0.3377103362 -0.0947019701  0.0063690085  0.1401991726
##
##  0.3298707773  0.6988049707  0.2699786392 -0.1840027060 -0.4608124292
##
## -0.4604813757 -0.0205744442  0.2624538639  0.0612714631 -0.2944132496
##
## -0.1384699552  0.7634367109  1.6190582260  1.5983973510  1.1519701406
##
##  0.3631337214  0.5670088897  0.2996975978  0.0889992421 -0.0998459538
##
## -0.1148537267  0.5054206735 -0.2817181590 -0.5436627620 -0.2959372791
##
##  0.1885242684 -0.2140020761 -0.3016676995  0.1908700297  0.6326352180
##
##  0.5733956050  0.7887920693  0.0378315260  0.1629506269  0.5506128830
##
##  0.4680451040  0.4632589122  0.5623262639  0.8516603755  1.6065777402
##
##  1.4399992480  0.7991450744  0.3748056394 -0.0507101116  0.0765402722

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##
## -0.0108099258 -0.4357228616 0.0268879679 -0.7473504066 -0.5271873716
##
## -0.1260354143 0.1955989269 0.2825498353 -0.0098711995 -0.3217392938
##
## -0.0429292251 0.2855505247 0.0779219211 0.6693509133 1.1898219230
##
## 1.3965923360 -0.0355339071 -0.5651875130 0.1812253114 -0.1131503226
##
## 0.4688959230 0.9083551743 0.3642264338 -0.1542041384 -0.2883962256
##
## -0.3666559365 -0.3685146786 -0.1363795519 0.6083001031 0.8143594452
##
## 0.6674939393 0.5656608511 0.2487474372 0.1261340901 0.0589457492
##
## -0.0918916124 -0.2316392232 -0.3320267011 0.7473421419 1.6275099881
##
## 0.4707543999 0.8466693807 0.1929963299 0.4856988307 0.7159530930
##
## -0.1636746361 -0.9553303511 -0.6810777599 0.1191778292 0.1058200030
##
## 0.1797055338 0.3557009794 -0.0731501144 -0.8881906501 1.0975701553
##
## 0.4487544831 0.4227398080 0.4711681326 0.1685729372 -0.1288338651
##
## -0.1612742863 0.2667855045 0.3324925587 0.4229992929 0.3555783649
##
## 0.8385637044 0.6375700792 0.3961745283 -0.3538204564 -0.2001845223
##
## 0.2933037284 -0.5893165756 -0.0676425218 -0.0172627558 -0.3419191592
##
## 1.3618259504 1.1634664558 0.6862642840 0.5796391454 0.6961186202
##
## 0.3219079060 0.0713409212 0.0893775993 0.4743080753 -0.4990176711
##
## -0.2203674113 0.4714250296 -0.1478769827 0.0517025124 0.5406728532
##
## 1.0874702874 0.8539589035 -0.1700291611 1.3954440446 0.0994904655
##
## -0.7064887870 0.2644683343 0.7466755246 0.3075969693 0.3540849712
##
## 0.6341316763 0.3383683524 0.1257821461 0.0774164786 -0.8294441101
##
## -0.3117478260 0.0978513434 0.4760930495 0.0253070629 0.1595270702
##
## 1.1307915161 0.7767422553 -0.1764111306 -0.3217888134 0.8647670261
##
## 1.5042498508 -0.7411148096 -1.4278798238 -0.4378609096 0.5316591688
##
## 0.6087985584 -0.0452625407 -0.5007105755 -0.1709309142 0.3088542349
##
## 0.1071823870 0.2207241228 0.5112566156 -0.1816084024 -0.5644972741
##
## -0.0383786877 0.3970669580 -0.7507328166 0.0573024813 0.0566291231

```



```

##
## -0.4268780047 0.0510734840 0.7738057839 0.8657288531 0.0450738884
##
## 0.0983602188 1.3165186366 0.6203226997 -1.5459337491 -2.4452587847
##
## -1.6868473942 0.0182443877 0.8480427807 -0.1646237067 -0.2202306262
##
## 0.0933446284 1.0013950519 0.6404607441 0.4909944734 0.1456112550
##
## 0.0643720597 0.1386383639 -0.7543339588 -1.7506346930 0.0075555730
##
## 0.1515369752 -0.7182194601 -0.4425838813 0.5599274150 0.3466292448
##
## 0.2310052981 0.0265802269 -0.6569588280 -1.4419350790 -1.2380160169
##
## 0.0854599056 0.8052523878 0.1627573630 0.2404778716 0.3652599925
##
## 1.4905704218 0.7357346448 0.0909815299 -0.2235486755 -0.0842349154
##
## 0.0224788227 -1.5934244442 -1.6982884704 -0.0159365937 0.3053899999
##
## 0.2400239171 0.1045755516 -0.3876672077 -0.3161390654 0.8908377302
##
## 1.3266775546 0.4222651320 0.0839938725 0.6620045408 0.7744209948
##
## 0.0444731296 0.2409114640 0.6337858020 0.5271517260 0.9391737980
##
## 0.4306924654 0.0439028059 -0.2500614489 -0.3743528854 -0.1020482260
##
## -0.3062749565 -0.4762358147 0.7587438718 1.1988848216 1.9486020958
##
## 0.4262411706 1.5596404504 1.2956286045 0.8080804015 0.4841241939
##
## 0.2711097409 0.2064473438 0.2696513683 0.3069552294 0.4979820608
##
## 1.0631510326 0.7028319834 0.5025202813 0.1104478169 -0.5236286025
##
## -0.9357446075 0.2130528134 1.6553596533 2.6758547315 -0.1965130294
##
## 0.0078657128 0.3303904351 0.4443369898 0.6547197951 0.3688936781
##
## 0.6388285107 0.6260794648 0.7492065082 0.6565108996 0.5008305993
##
## 0.6491894422 0.2595511331 1.7944309308 1.0037181285 0.7470446976
##
## 0.7279359680 0.9080434266 0.6580426245 1.0422900551 -0.1337572914
##
## 0.1936791454 0.6454473804 0.2467882903 -0.0939278798 0.5117746084
##
## -0.1201338172 1.8846537141 0.6953382562 0.6442594176 0.4390984953
##
## 0.0177757030 0.6890821610 -0.2738568715 0.8814744527 0.2694020983
##
## 0.3977029285 1.4142208469 1.8671149032 1.2494608459 0.3786718781

```

```

##
## -0.4459406514  0.4879973463  0.1564517352  0.7401346708  1.1596001226
##
##  0.4963424453  0.8861628502  1.6677724860  1.9017823963  1.3789397559
##
##  1.1512517666  0.2761822506  0.7094103967  0.1512325812  1.0436033635
##
##  0.2208622104 -0.3476167563  1.1711510543  1.5173059400  0.0204919618
##
## -0.8522485696  0.0636962275  0.8539877820 -0.5751801880 -0.1566932214
##
## -0.8540539614  2.8741192100  2.8106495514  2.5291595941  2.9656662428
##
##  0.6310669039  2.1914525877  4.1541615577  3.5313087771  3.2014303072
##
##  2.8103690783  1.1632085911  2.0118054712  2.8682563907  2.5169427445
##
##  2.8959324915  2.5828738196  2.6493278990  2.8772753571  1.7093450110
##
##  2.1064246625  2.3699854547  2.5062427894  2.6967332202  2.4507163438
##
##  1.1199480448  1.9995389283  2.0869686919  1.7855989483  1.4477547933
##
##  1.1593965545  2.5909660422  4.1174315119  3.1510472180  0.9771649925
##
## -2.3714030808  4.4402293545  4.0905038441  1.6586565270  0.3184845211
##
##  0.9131340345  1.1637891857  1.3407831110  1.4154295091  1.6341496964
##
##  2.6484267443  0.7889479861  1.0887572801  2.6496517397  3.8340112056
##
##  4.8005039020  5.4724941548  7.1386602432  3.6433378797  2.4406580263
##
##  0.3780524028  0.3942833871  9.8984346204  6.5606688130  1.2762644956
##
## -0.7111716735  0.7525563366  0.6944425328  0.8161745246  0.6474270149
##
##  1.0371477477  2.5618354825  0.6002703299  0.9034150385 -0.4461149032
##
##  1.3726152599  2.6479934938  3.7164287660  6.0585297993  6.8628510750
##
##  2.8089309010  2.8052375958  4.1450049377  2.0035069665  1.3174415510
##
##  3.9365565459  8.8331718619  0.7818262927 -1.2794976390 -0.0991521391
##
## -0.7255527217  0.6777042012  0.8735712240  1.2526200620  2.0078765663
##
##  0.8039378982  0.4791692578  0.8573423088  1.0950547085  0.6909368123
##
##  1.3141258784  0.3437616148  2.4185240789  5.4978766259  6.4206546519
##
##  1.2053485254  2.6054150907  1.2171119901  1.5401260561  3.0391475161
##
##  1.0675700444  0.8870216613  1.1614929064  3.9128373167  11.9983367590

```

```

##
## 8.0699673018 0.7545310364 -0.6265240373 0.2404064520 0.2927125976
##
## 0.0684637341 0.2402518556 0.7639983482 1.0968482684 0.2293121874
##
## 0.3153853972 0.6323213603 0.3515454999 0.0880640958 0.8785860620
##
## -0.3868906348 2.1530135232 4.3021829596 1.8992783646 -1.1650475421
##
## 7.0402257440 4.5680969756 1.4576098003 2.5128628720 0.5650926363
##
## 1.6969845612 1.2520045769 0.5615911104 0.9716843038 2.3288238103
##
## 4.1304161441 3.8629606093 1.5794915047 0.3970833735 0.3347869687
##
## 0.4687673161 -0.1354342211 -0.0526938636 0.2591420535 0.2253899110
##
## -0.3878889439 -0.0572329327 0.8395172707 0.5949172943 0.2732508617
##
## 0.6032094764 0.0238130109 1.6645796065 2.6056469075 1.1565982794
##
## 0.6227015115 3.4857806513 2.7395874270 0.3035631955 1.9422460556
##
## 3.7482054361 0.5759697592 1.8278103587 1.4454556401 0.9356483902
##
## 1.3231385882 1.7037752448 1.7444455592 1.7948134821 1.7113042073
##
## 0.5191102821 0.0742951677 0.0301640693 -0.3180721367 -0.0933318231
##
## -0.0622941359 -0.0192155731 -0.0979378319 -0.2421621317 0.5234207131
##
## 0.7924853540 0.5923750848 0.4929660334 0.6765508272 0.6720960364
##
## 1.6303515742 1.1563041893 1.1357886903 1.8591041779 1.4154283003
##
## 0.3451138197 1.3807749686 2.3547134913 5.2091611392 0.4185067853
##
## 0.7683091712 1.1570391406 0.8934752371 1.3216245508 1.9158869479
##
## 1.8915630492 1.4776951298 1.3790025040 1.3603364894 0.2710695481
##
## 0.0851935227 -0.1501722359 -0.8286840353 -0.5541167572 -0.3470543471
##
## -0.1722695469 -0.0175137663 0.0599175185 0.3033019075 0.5757771647
##
## 0.4578735188 0.5384623986 1.1539818476 1.8334234344 2.0207505511
##
## 0.8655680661 1.2016865483 1.7686839679 1.4093543920 1.0388459575
##
## 1.5371267735 1.1537159482 1.3037489085 -0.3165701374 1.1609854021
##
## 1.6876476128 1.1741973526 0.6233535151 -0.1271815929 1.3271479159
##
## 1.4591096305 1.4052652444 1.6400456169 1.6127377784 0.3056731960

```

```

##
## 0.0909164874 0.3307085244 0.1510638693 -0.4634119388 -0.7357294559
##
## -0.5805602891 -0.2913417278 -0.0273006132 0.2710316531 0.2779564742
##
## -0.3067936887 -0.4877586535 0.0095091469 0.6883498347 1.1921309558
##
## 1.8942127562 0.6883451719 0.8388966099 2.2218017701 1.7331447293
##
## 0.1184834384 0.5011781861 1.1332975238 0.4678261308 0.4037192141
##
## -0.1230471057 0.4322278653 1.3246518005 1.3314719532 1.0591245316
##
## 1.0427683925 0.6984354931 1.2869012988 1.2946083076 0.6887194884
##
## 0.2869267834 0.3673457114 0.2265480957 -0.2009908343 0.1209648278
##
## 0.1468574974 -0.0983495775 -0.3249577438 -0.0548210129 -0.0563095242
##
## -0.2286805192 -0.2154503669 0.1593681916 0.0202756795 0.2435543598
##
## 0.2539553091 0.5940002707 1.2243270519 1.8496129301 1.0169729460
##
## 0.3518702769 1.5537269104 1.7908919353 1.2479353914 1.1131303856
##
## 1.1351151384 0.3264369173 0.9435509386 1.3741786343 2.6237518702
##
## 0.4654854139 1.1365469675 0.9598590506 0.7199282093 0.7799388461
##
## 0.8261087372 1.1616574555 1.0212506286 0.5697553872 0.1036482956
##
## 0.2141366369 0.7555493537 0.0919382804 -0.0972052838 0.0510554878
##
## 0.3131132857 0.6587040234 1.2825266288 0.3558595602 -0.1314434883
##
## -0.0900919414 0.0906107338 -0.0942190013 0.4849841582 0.5010561722
##
## 0.7661032974 1.5902054942 2.1816023105 1.1246835632 0.9714794473
##
## 1.5441647245 1.0998855161 1.3259024908 1.4077913667 0.8255097321
##
## 0.0728070526 1.2459401513 1.5768734173 1.5862734761 1.7618998960
##
## 0.4713930307 0.7510948173 0.9507328599 0.9118902841 0.9438613715
##
## 1.2641682435 0.8310070941 0.9467882412 1.1751555342 0.6668896931
##
## 0.4670639318 1.0151983167 0.8978479498 -0.0443114735 -0.0752297460
##
## 0.2732311248 0.5961559225 0.5869936575 -0.3443149533 0.0316141350
##
## 0.0205693033 -0.2272626376 -0.3340024220 0.5067777140 0.6298916461
##
## 0.7609900822 0.7735768610 1.0989417633 1.5355316403 1.6686178995

```

```

##
## 0.9635364521 0.2579243914 1.2723692526 1.2784533796 0.5320723574
##
## -0.1125607004 0.4373461596 1.4814979213 1.5512750595 1.3155595371
##
## 1.2392103767 0.7114203923 1.0648123823 1.3300832614 1.4733854440
##
## 1.4383606591 0.8328628922 1.3536365550 2.0901431363 1.6907488729
##
## 1.2901004964 1.2853275528 0.9606565291 -0.3897215648 -0.3884034994
##
## -0.1871051523 -0.0389686042 -0.0568012109 -0.3267892794 0.3994781957
##
## 0.2250472450 -0.3092968070 -0.4204271800 0.4538893083 0.8982407918
##
## 1.1799929733 0.8821575409 1.1047001920 1.5086747795 1.3648626018
##
## 0.4558730257 0.0482805346 1.3053436831 0.7583339113 0.2521179434
##
## 0.5450180644 1.4854838045 1.5849171967 1.5580581250 1.7305579405
##
## 2.0363680463 1.6100572175 1.2249846482 0.7087373868 0.6620346198
##
## 0.9770102171 1.1469927866 1.6273724828 1.7849165707 1.0139184247
##
## 0.0354457894 -0.1527892664 -0.1154229775 -0.3382615402 -0.5727919437
##
## -0.1831551402 0.6461257893 0.5035456751 -0.1613347285 -0.5070332287
##
## -0.1344610600 0.2506845836 0.8292280948 1.0232368576 1.2587795068
##
## 1.2859930273 0.9322015422 0.5455339448 0.7118084032 1.8925256107
##
## 1.1371415035 0.6644488133 -0.0106009639 -0.2140291800 0.7109115237
##
## 0.5746550664 1.3822007139 0.9529205339 0.0972877689 0.2109654906
##
## 0.2216893221 0.8984447950 0.7097514936 1.0301036697 1.4698962338
##
## 1.2825862211 0.7652100485 0.3897014592 -0.0882574303 -0.5686841289
##
## -0.6760249481 -0.3460036368 -0.0922894146 0.5055003416 0.4031362275
##
## 0.3019418708 0.4874857238 0.4970256229 -0.3600746787 -0.2253390988
##
## 0.3557963079 0.6957270535 0.7353491468 0.3716378441 0.2025654289
##
## 1.5856521052 0.6096672835 0.5225477167 0.3275897652 0.1102648250
##
## 0.4262083873 0.7629500782 0.6573486624 0.0354399082 -0.2995322851
##
## 0.6606560723 0.9490099488 0.3626988490 0.4732368967 0.8620941350
##
## 0.9864878870 0.9862655045 1.0019252172 -0.4114297808 -0.5882674324

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```

##
## 0.0197889872 0.2738926419 -0.6923170500 -0.2106281475 -0.0575711223
##
## 0.1248964865 0.3648074674 0.1868916843 -0.8374002653 -0.7456034374
##
## -0.1753853538 0.0385606968 0.6270817654 0.7303860106 -0.0240050145
##
## -0.0712556181 0.5472109721 0.2468347220 0.6213559054 0.9587042683
##
## 0.3817385169 0.4135802250 0.4714513488 0.0432038515 -0.5840212989
##
## 0.8033096338 0.6905092777 0.6986872685 0.6419592227 0.3740444454
##
## 0.0283284421 -0.0406278351 0.5276247082 -1.5241436804 -0.9069719534
##
## 0.2568387603 0.7196944521 0.2645996775 0.1833812592 0.0406460395
##
## -0.0398675511 -0.1322544373 -0.2189353808 -0.1160651707 0.5923511051
##
## 1.0119741268 -0.0512702109 -0.2814793849 0.2766554938 0.6450699497
##
## 0.7219228507 1.3861391534 -0.2415803843 -0.0820287450 0.2309176633
##
## 0.0541165683 -1.0036968050 -0.9541793385 -0.7022142407 0.1751748640
##
## 0.2931507379 0.2014389279 -0.1559247436 -0.4991704585 -0.1361058817
##
## -0.0387808784 0.5294960528 0.6656242272 0.8715967462 0.6595452888
##
## -0.0060137788 -0.1369783439 0.5037202577 0.4097558876 0.3768571523
##
## -0.1332533544 -0.2629217799 -0.0126421207 0.3611290082 0.8752000637
##
## -0.2724760242 -0.2709725005 -0.1604543674 -0.0040895241 0.3008441854
##
## 0.7660649344 -0.1214780964 0.3165214854 0.1540993112 0.2782263941
##
## 0.4573561387 -0.2042835045 1.0507729912 -0.4554202407 0.3175090472
##
## 0.4144797187 1.1976464183 -0.0490571377 -0.0695546509 -0.3424491779
##
## -0.5646881410 -0.5444414543 -0.5522103209 -0.3958820396 -0.0550784798
##
## -0.0997727391 -0.0136423418 0.2602555697 0.5257465464 0.4914143249
##
## 0.5394733834 0.3606163859 0.6095554545 0.1939172186 -0.0973156249
##
## -0.0163107526 0.1960935317 0.4991585644 0.0731750699 0.1238336199
##
## 0.3495290332 0.5135244438 0.5436292687 0.9575512949 0.9369342945
##
## 1.0833392709 1.0321792593 0.3743881934 -0.4685198974 0.0684225268
##
## -0.0045750266 -0.1512858270 0.5260210604 -0.1301653486 -0.0446308298

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```

##
## -0.2275987469 -0.0359710840 0.7381185933 0.3062952062 0.0111336631
##
## 0.0261195915 0.0507014152 -0.1617634797 -0.3220630919 -0.0759921482
##
## 0.6864703449 0.5434463167 0.2110029174 0.4238634280 0.3882144064
##
## 0.1605541106 0.1964296955 0.2338671803 0.4184275654 1.0418574372
##
## 0.9493487635 1.7315588815 2.0428770757 1.4617130958 1.1165861110
##
## 0.1754265021 -0.0663334841 0.2156947483 0.2890992864 -0.3716430509
##
## -0.7035059581 0.5723632659 0.2679291554 0.0475880474 0.2288624518
##
## 0.3299796632 -0.5610269365 -0.1153064524 -0.3762167451 0.4467204832
##
## 0.7869012237 0.6511321267 0.5999426890 0.5256195108 0.5334611738
##
## -0.2632940609 0.3780470581 1.1649929960 0.7656895978 0.8746832776
##
## 0.7754420282 0.4688033923 0.5282451473 -0.3866180279 -0.2361297427
##
## 0.0041755775 0.2525881581 0.1274124620 0.0928614897 0.6979504655
##
## 0.3764979815 0.4755653664 0.0385893895 0.1050186337 -0.4534470521
##
## -0.7011398146 0.7953972914 -0.0789914380 1.7523422631 1.0491412656
##
## 1.1376037794 -0.4052514658 -0.6601056325 -0.3140151922 0.0313819672
##
## 0.2379908711 0.2951856633 0.4321589108 0.5302351016 0.3230213645
##
## -0.3871820001 0.2665504809 0.1298994343 -0.0184432616 0.3765988219
##
## 0.7412185345 0.6517399820 0.2175271661 -0.6393574453 0.8208292293
##
## 0.7720478809 0.4119913720 -0.3142585286 1.2589612674 1.9539782549
##
## 1.7377294281 1.3748239466 1.6139441186 -0.0502934622 -0.6469774884
##
## 0.3612115783 0.6712669753 0.6008954592 0.4198846425 -0.0059633243
##
## 0.4649921723 0.1512687328 0.0380855079 0.6741240686 0.6898812336
##
## 0.6261215473 0.3924905708 -0.9213946958 1.2353275005 1.2442117247
##
## 0.1801719781 -0.1964352482 -0.0343159211 -0.0377471161 0.2506750788
##
## 0.7498655671 0.6746865538 0.5379583614 0.3754916979 0.3057669605
##
## 0.8851531481 0.8942004430 0.1294668719 0.0387298480 0.4230386552
##
## 1.2812252075 1.0373039826 0.7566608607 0.0834910996 0.7647981738

```

```

##
## 0.9941282779 0.4052190224 0.9508696250 0.2812020772 -0.2386115477
##
## -0.0601818634 -0.4365597703 -0.1637584731 -0.2824617391 -0.3509051508
##
## -0.1670084160 0.2760181681 0.5466581315 0.3171242008 0.1219552364
##
## 0.6547486863 0.6452475650 0.6234415586 0.2614045682 0.9980906278
##
## 0.8337980595 1.5749886621 0.7830038520 0.1502155187 0.4914205187
##
## 0.2946406621 -0.7172997256 -0.2017345556 -0.2065380824 0.1886307885
##
## 0.6859481156 0.5442446299 -0.1859196743 -0.4779485002 -0.4960869635
##
## -0.3250819910 -0.1563523231 -0.0617562894 0.1147714827 0.2571727951
##
## 0.8761085279 0.4649991009 0.2145228546 0.5921522401 -0.4859534616
##
## 0.4950514345 0.5787691803 -0.0985636394 -1.2814418371 -1.4710994593
##
## -0.2644265401 -0.1779388290 -0.0831316732 0.2614294161 0.7577568242
##
## 0.9097484788 0.8984431955 1.5711002130 0.6886624199 -0.2556438046
##
## -0.3236864201 -0.2173321931 -0.1115603035 -0.0951618601 0.1614678862
##
## 0.5511703374 0.6085671049 0.9411157971 0.5750305895 0.8329996457
##
## 0.5691104816 0.4567427652 -0.5204970957 -1.5627800663 -1.3954944010
##
## -0.8023438886 0.1902412493 -0.0565943126 0.1544665961 0.2616338091
##
## 0.6094541701 0.8018947908 0.9002699513 -0.1305080321 -0.1858810786
##
## -0.1843936527 0.0203228010 -0.0626609218 0.0335131033 -0.2552314760
##
## 0.0202859028 0.9999194849 1.4435547545 0.6364875059 -0.2533744701
##
## -1.1300431349 -0.9050832554 -0.6808676747 -0.3653244391 0.3526942453
##
## -0.0671342259 0.0795403028 0.3696727194 0.8520166748 -0.8143461451
##
## -0.4090627591 -0.7445331862 -0.4218752933 -0.2132075559 -0.0183628681
##
## 0.2315543385 -0.6623318665 -0.4811273945 0.0390121354 -0.4189952298
##
## 0.2144677671 -0.5812606880 -1.4192625865 -0.2473137400 -0.0617840289
##
## -0.1949329329 -0.0292729618 0.9380502595 0.2571117475 -0.1709111463
##
## 0.1291901627 -0.0320745788 -0.1862307314 -1.5419597697 0.1169111951
##
## 0.4729496540 0.1617826052 0.2944857450 0.2954154541 -0.7563229068

```



```

##
## -0.1592250722 -1.2581624726 -0.4068639694 0.2905160917 -0.5546253587
##
## -0.6953977967 0.9509227779 0.4261490563 -0.1094470316 -1.2140057311
##
## -0.5840523391 0.3864529643 0.7733119196 0.4320646230 -0.3865845801
##
## 0.1033015336 0.1905695211 0.8413242112 0.4078421393 -0.4840301371
##
## -1.1225693371 0.7115182985 0.3552226866 0.7215951783 0.4926530632
##
## -0.8679183918 -0.2302209544 -0.3223716913 0.3832044873 0.8872720052
##
## 0.3165067582 -0.5975099109 0.0974420507 -0.0094816625 -0.0786683937
##
## -0.2031386757 -1.0595448275 0.5867501055 0.3057755520 0.3540461133
##
## 0.6902451241 -1.5191549844 -0.2414646957 0.3374371127 0.9882665643
##
## 1.0136715149 0.4779096784 0.3996237664 0.9595023170 0.3295708898
##
## -1.1178205684 -0.8788261467 0.3642079278 0.2943110368 0.1248878005
##
## 0.3107164334 0.9685960402 0.2742795533 1.1365309020 0.5518101359
##
## -0.2840007819 -0.1201446281 1.6512723043 2.3993922109 1.8584213566
##
## 1.0969209373 1.6707259835 1.3019437632 0.0912614146 -0.0354702114
##
## -0.0407415996 0.0941831359 0.3461878300 0.1110953825 -0.2117063087
##
## 0.2954244279 0.2656619991 -0.5179561277 -0.2690397075 0.9352137951
##
## 0.8722943191 1.5278095610 1.1627322473 1.9378808551 2.2176464316
##
## 1.5343779002 0.6072351208 0.2789231360 0.2914626435 0.0575398689
##
## -0.2062667974 0.2803071863 0.2304306104 0.0270512489 0.2426714880
##
## -0.3656045867 0.3760612280 0.7586684296 0.5517431566 1.6978475770
##
## 2.2424568189 2.4482523125 1.7004961465 1.0633514952 0.7586540015
##
## 0.4319995526 -0.0480534318 -0.1414303722 1.1841660148 0.3102099071
##
## -0.1553789774 0.2954887905 -0.3173654390 0.1181390885 0.1950272810
##
## 0.2252014015 0.4081767525 0.2943552723 -0.0511076067 -0.0275503315
##
## 0.9413883544 -0.7335771915 1.0140481411 0.0032336175 0.4550082027
##
## 1.1929469765 1.0555826975 0.4264482171 -0.2356623763 -0.5198462990
##
## 0.5625429893 0.1582231738 0.2851037778 0.7500694479 0.0227878049

```

```

##
## 0.2387857354 0.6712768356 1.0635020417 0.8514368961 0.2078537443
##
## 0.4441470062 0.7729824610 0.5321611649 0.4641216800 -0.4399967778
##
## -0.5539710446 -0.3390470050 0.5754448650 0.4375212424 0.4610981248
##
## 0.4545217838 0.0522389330 -0.3746547484 0.1473906989 0.1181908708
##
## 1.0351125388 0.9198263928 0.3323048827 0.8804880576 0.7819583393
##
## 1.1187237995 1.6520246519 1.8057074620 2.2924493191 0.2644352027
##
## -0.7591044783 -0.7364260725 -0.5363740480 -0.1927552269 0.1915935375
##
## 0.6037459054 0.7738824004 0.7505326731 0.9979241097 0.7244987792
##
## 0.1977881674 0.6381047431 -0.4555955791 0.9058964742 0.2385743925
##
## 0.2771311447 0.5975810458 0.9807905495 1.6255381840 1.8749477912
##
## 1.5890312727 1.7415485813 0.0271800564 -1.1138149288 -1.6295420228
##
## -0.1981950607 0.2420136942 0.9521372842 0.8588832791 1.7654228760
##
## 1.5636895717 1.2902983510 0.8330928956 0.6146945105 1.0071139170
##
## -0.1582194980 -0.1104728049 -0.6140984604 1.0361302423 0.4841871019
##
## 0.5618149567 0.8288423964 1.2859614737 1.1368264883 0.3354548254
##
## 0.6358264511 0.3684989383 -1.0143416897 0.3014881661 0.1870528206
##
## 0.5144980473 0.2561443336 1.3345282227 1.6360881224 1.0777107555
##
## 0.4018680869 0.2317910329 0.6273389315 0.8526019933 0.2108818796
##
## -0.3694320572 0.5621830716 -0.0999151365 -0.3356879715 -0.0944169885
##
## 0.3563510149 0.5437902006 0.0492314030 1.0757953931 1.8278188514
##
## 0.8957944015 -0.4926920437 0.6377094368 0.7960604087 0.6563215334
##
## 0.4107006730 0.2825777241 0.3556378579 0.5856471360 -0.1714051553
##
## 0.1512647398 -0.0884290959 -0.0995152430 -0.2000288830 0.0494671986
##
## -0.0579387983 0.0914372193 0.8609986478 0.6980753268 1.3540130850
##
## -0.9746460239 -1.4413281327 0.3819062334 0.9098011478 0.6187384796
##
## 0.1605353288 -0.4660130409 0.0052928949 0.1943264258 0.0874409884
##
## 0.8481522781 1.1934458531 0.4801108753 -0.1791709385 0.2069238959

```

```

##
## 0.0824843279 0.6824522727 -0.0244373187 0.4830922015 0.0703802430
##
## -0.4407795731 -0.0153703151 -0.1710008629 0.1698923570 0.8154941363
##
## 0.2755339755 1.0140498822 1.5478149282 0.5723584032 0.3594978817
##
## -0.0960274784 -1.1523387611 -1.0808047802 -0.0768671248 -0.4004697027
##
## 0.1778017135 0.3889040401 0.7067422202 1.0185090062 1.5780459865
##
## 0.1160537441 1.4681214424 0.3595731207 2.8007085161 3.3642506948
##
## 2.6186174138 2.6956171813 1.3256092212 2.1739516408 1.1498715288
##
## 2.3350263967 3.5395839762 0.3580916813 0.7089292507 1.2185144785
##
## 1.6122627954 2.0719975605 2.9385258182 1.7169546653 1.4392454032
##
## 2.5902268842 2.1312238161 1.4272726792 3.4551728615 4.0287396211
##
## 3.5874131131 2.4640907625 2.2994426725 2.6833422998 3.4521509682
##
## 1.2197106259 2.0179226418 2.7292027250 0.8471433117 1.7425096283
##
## 2.1675725760 2.2436542545 2.5093695126 3.4125394973 3.7139185491
##
## 3.6676230354 3.9974520594 4.6308539928 3.2640102999 3.4520943012
##
## 3.8695603378 4.3706794605 3.8575018545 1.0270557331 1.3024159029
##
## 1.6711457157 1.3359230333 1.1463047509 1.0604782217 0.6272460743
##
## 1.4101902856 1.8759190971 1.9018237381 1.8995712330 0.8809735570
##
## 1.5448900792 2.0892069688 2.5482561653 2.7282821716 2.6926627086
##
## 1.6947875852 2.3207134233 3.0969040818 3.6407131766 3.5325683208
##
## 0.4118034963 0.8637719459 0.3354607425 1.5775828979 1.5470056745
##
## 0.7196754336 0.6229008946 0.5558247321 0.1375374325 0.4572918192
##
## 0.7427170739 0.9642469111 1.4555534752 0.4653684244 0.5226717902
##
## 0.0429334657 0.2222639344 0.9120871767 0.6264818995 -0.1268024737
##
## -0.0060214223 -0.2162088050 0.4119699045 0.9948890551 2.5380777771
##
## 0.6369625094 -0.1247996805 -0.6884804717 0.9068259133 1.8003139013
##
## 1.1408149225 0.9715131096 2.9573960794 1.3711449053 0.7066951881
##
## 1.1618911624 1.6437658722 2.0344050346 1.5874991022 1.7127814799

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```

##
## 1.9645452294 1.7589461122 2.5094888904 1.5811684836 0.5220023940
##
## 0.3954992897 1.2645318648 0.1757414715 0.4369570417 0.3651516356
##
## 0.8401996124 0.1656434874 -0.0179822392 -0.3768278970 1.0827015399
##
## 1.7339798127 1.3155627975 1.6280481539 3.4980605072 2.7090062750
##
## 1.1034988461 1.6053183772 1.9168127680 2.6106240325 1.9585272036
##
## 1.6560456302 1.3400614679 1.3092110587 2.0298192672 4.2239663659
##
## 2.7293162345 0.5234386157 0.0130562133 0.8226398642 0.2585507730
##
## 0.6411285718 0.7619364160 1.2000051631 0.7237212236 0.3527062126
##
## 0.3680950866 1.7244255796 1.0200663046 1.9027038840 2.4689116850
##
## 1.9960870304 0.8379981151 2.1050936416 1.8294003547 1.5108085758
##
## 2.7869111127 1.0456250570 1.5268614387 0.9913350354 0.4229274836
##
## 0.7884224951 2.1714749452 4.2176133133 3.1973874852 0.9159431599
##
## 0.1038249635 0.4510487649 0.5754559606 -0.0814880363 0.2838336165
##
## 0.8338586256 1.0322130172 0.2055430657 0.8744884491 1.0627970555
##
## 0.5687534843 0.4850872808 1.6502788245 0.9632807077 2.6154756794
##
## 2.6316925528 0.8895197148 -0.1220637900 2.9684546020 2.4187245387
##
## 1.5300585781 2.4456150356 3.9950680888 1.3486072972 1.0160422013
##
## 0.4860130334 0.0638697693 0.5191981731 1.5512007100 2.4204493150
##
## 2.6469960629 2.0734685327 1.1325178603 0.6351718522 0.6337644438
##
## -0.0528873838 -0.1099257255 0.0419821827 0.1567197295 -0.0771333368
##
## 0.3839409208 1.1354410377 0.9999275904 0.7457320397 1.1335654963
##
## 0.8724775144 1.7552414086 2.1304845442 0.8044365197 0.0402711710
##
## 0.8609836997 0.7370748317 1.0864909907 1.8676238168 2.4409139633
##
## 1.4830745184 -0.1666755041 2.1075727958 1.7012829381 1.3556060529
##
## 0.2170134780 0.2162742414 0.1824850568 0.2258088317 0.8346054268
##
## 2.0468311308 2.4169412303 1.4007575465 0.5937296251 0.3087033948
##
## -0.3252330859 -0.7380704997 -0.4647599428 0.0895346600 0.3828890586

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```

##
## -0.0560314086  0.0690730922  1.1189655361  1.4484746350  1.1804676791
##
##  0.6872675548  0.5312641570  1.4790427274  0.7058771444 -0.3461750375
##
## -0.5988625229  0.2637689870  1.0553637400  1.8515454888  1.5830543775
##
##  0.3386163136 -0.0554721525  0.8137650983  0.4617253746  1.4796946996
##
##  2.0916558942  1.2569433556 -0.5872168682 -0.2915018984  0.2386282128
##
##  1.0592817005  2.7428811491  4.9249247393  2.7916491162  0.9631154328
##
##  0.3807682804  0.2956323632 -0.1121897649 -0.7036984635 -0.6481060370
##
##  0.0918432272  0.5504957327  0.1762717387 -0.1075227706  0.3103191598
##
##  0.3981657031  0.3394970688  0.2278986202  0.4274343356  1.2985624861
##
##  0.5178154308  0.2818810674  0.6766230297  1.1528118324  1.4540382923
##
##  1.5539842577  0.2121646166 -0.2084472006  0.2472559130  0.7906816145
##
##  0.0188038290  0.3897614352  0.7204790974  0.7411050633  0.3426377502
##
## -0.3373735425 -0.2444337792  0.0762503323  1.4465963683  3.1673150491
##
##  3.8746027888  1.5154375020  0.3943907033  0.3507675216  0.6260684426
##
##  0.6618138044  0.5015177208 -0.2514104075  0.1915066537  0.4368277302
##
##  0.2353976517 -0.0165579360 -0.1270437822 -0.2193915461 -0.0684383293
##
## -0.0894619819 -0.2635692408  0.9815596133  1.4387109157 -0.1036386182
##
##  1.1873479343  1.8689142683  1.3717909535  0.6799452889 -0.3002242938
##
## -0.1904461588  0.0072031954 -0.1775294018  0.7998509045  0.8163949157
##
##  0.8477288702  0.8654662099  0.4398524871  0.0408805551  0.1742468431
##
##  0.4815232402  0.2190333545  0.1698225612  1.5822071695  2.3803933089
##
##  1.4708546461  0.4234788791  0.2254002638  0.3015256607  0.5799404557
##
##  0.6297170427  0.3817076015  0.4125905287  0.1930840421 -0.0761205361
##
## -0.2179592321 -0.0916903404  0.0630820592  0.5590684687  0.6711288520
##
##  0.4659129818  0.5533919036  1.4718938652  2.0092213061  0.3403828877
##
##  1.2256584721  1.6969008296  1.2347165068  0.6303298576  0.5149550504
##
##  0.3660631463  0.9930637979  0.5831823794  1.0451112475  1.5398122167

```

```

##
## 0.9486276179 1.2692626180 1.1980046960 0.4529363999 -0.0080785305
##
## 0.4089228208 1.1208553054 0.8679485917 0.7041405419 1.9403162498
##
## 1.9296457699 0.7636141198 0.7286146968 0.7689071602 -0.0414915846
##
## -0.2061753533 0.1000007163 0.4225577736 0.6005031246 -0.0872218259
##
## -0.3186463955 -0.4555310893 -0.3006057776 0.1155234833 0.9512313624
##
## 0.9392617628 0.8712012528 1.1256539039 1.6126081204 1.7070693900
##
## 1.1353574669 0.5460209760 0.6848650510 0.9272234134 0.9498038437
##
## 0.5984530805 -0.0249513723 0.4085117206 0.8632310607 0.6625457730
##
## 0.8222071993 1.0290483667 1.1451619923 1.1286255901 0.6266729097
##
## 0.4056693382 0.8692937893 1.6507050437 0.8345486271 0.9042703863
##
## 1.7047754034 1.2997274411 0.8323146069 1.6470378013 1.3306317824
##
## 0.0029970151 -0.1829393275 -0.0585845136 0.0672168646 -0.0687453261
##
## -0.7877601980 -0.1911383260 -0.3999007880 -0.7869893380 -0.4903282373
##
## 0.1625384111 0.7167564881 1.0880126392 1.1130296798 1.2942949212
##
## 1.5080864009 1.1563314438 -0.4409500042 -0.0344825953 1.2846891307
##
## 1.2696528180 0.6449684877 0.1686446768 0.5348191211 1.2825140835
##
## 0.7387579222 0.5811156273 1.0130125334 1.2587840256 1.0933777401
##
## 0.9397584245 1.0448329215 1.3972973139 1.6685012777 0.8918469367
##
## 0.6559816448 1.2833537773 1.3123029686 1.5427282515 2.1685955068
##
## 1.2801454923 0.2465020736 0.0092697718 -0.3878863726 -0.5741069191
##
## -0.3516377532 -1.0771732000 -0.6707031755 -0.6197196576 -0.6710073022
##
## -0.4113689578 0.2663200617 0.9811323705 1.5661171284 1.1919868450
##
## 1.0845469489 1.1727311952 0.7068120728 -0.4097942173 0.4301269939
##
## 1.8716912925 1.0399885875 0.1992288506 -0.0045755252 0.4089471893
##
## 0.9267539203 1.0346420739 0.2382964748 0.7426964579 1.0035135111
##
## 1.2228989492 0.4443700470 0.5585611821 1.1915624421 1.4937626688
##
## 0.9590255273 0.5223131889 0.0307631361 1.1560543046 2.0195530624

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```

##
## 2.4133612854 2.1776096948 0.7833087685 0.7911459979 0.2849565710
##
## 0.1064416508 -0.1318163970 -0.4739185827 -0.8461479742 -0.3645961352
##
## -0.4793104707 -0.3339453348 0.0631321343 0.6582269766 1.1966773301
##
## 1.7544708669 1.5939513661 1.5607463000 1.2381950044 0.7285987774
##
## 0.1798910342 0.3938153425 1.3010429118 0.5473587905 -0.0102950128
##
## -0.2134044888 -0.1681238888 0.1697141155 1.2626236235 1.1698740990
##
## 1.6424794091 0.2223117102 0.6847054155 0.2298533930 -0.6002072400
##
## -0.1134436625 0.6993039280 -0.3938148803 -0.5003651427 1.5188142236
##
## 2.5684192165 2.0303459453 0.9547865044 0.5514197914 1.0422493722
##
## -0.0883763079 -0.5790803586 -0.5713283970 -0.3651533907 -0.1180094112
##
## 0.2117543187 -0.3383975377 -0.0395803544 0.4916541333 0.9895359887
##
## 1.3719867623 0.8283904440 0.1694701360 0.7451568781 1.0108318023
##
## 0.6907866278 0.0664737493 -0.2499490494 0.3701910010 0.2522024320
##
## 0.0580421147 0.3666143331 0.8113725990 1.2502048811 1.6993731908
##
## 0.0879946542 1.9286109944 0.8649080182 0.7798187085 0.4134906912
##
## -0.8437673442 -0.8065014625 -0.2831801722 1.2163103692 0.5867051791
##
## 0.1407987266 0.1680302736 0.5455476074 0.9006953464 -0.3330766463
##
## -0.6097169971 0.0014847989 0.6640059505 0.5195421124 -0.2103125375
##
## -0.0485047049 0.4889011019 0.6739217884 0.3590948681 0.1052910869
##
## -0.0067508929 0.2455431151 0.3623615771 0.2602888965 -0.0312484583
##
## -0.3076766319 -0.0629611560 0.5875247837 1.7116076756 2.2174642085
##
## 1.1081855686 0.4380115914 2.0322144177 1.3425810216 0.9902117417
##
## 0.3221885967 0.2709716114 -0.4934393603 -0.3948448769 0.2644616792
##
## 0.1178507095 -0.0009259440 -0.0007745944 0.0498670382 1.3321280231
##
## 0.4041744774 -0.2316622531 0.4121299679 1.1125231741 0.8442761946
##
## 0.6119706830 0.4939887627 0.0515073389 -0.4399971129 -0.3808428749
##
## 0.0060560803 0.0907419170 0.1215596010 0.0451588601 -0.2073227688

```

```

##
## -0.0273603656  0.2142758629  0.6197343371  0.3632641519  0.6648114931
##
##  1.1167801108  0.5219895137  1.6292383882  2.2481676660 -0.5959013353
##
## -0.1479500029  0.4830138213  0.2937318384  0.2324914634  0.5346082765
##
##  0.4279102397 -0.1060352177 -0.0605567553  0.2925333665  0.4079815052
##
##  1.3732499722  2.4871471850  0.8824753974  1.2217983812  0.5276225868
##
##  0.1441698359 -0.0443895999 -0.3146172311 -0.2032166622  0.0158878933
##
## -0.1421850312 -0.0465133388  0.5229863974  0.5544804542  0.6357354721
##
##  0.2775533357  0.7239725407  0.3943944331 -0.3242136707  0.0178079355
##
##  0.4753914304  0.3870815416  0.3452057583  0.1548858434  0.3506700009
##
## -0.2116818649  0.0582026992 -0.3733880486 -0.3927970831  0.4980655823
##
##  1.8360578140  2.7992367755  1.9479440549  0.3414333350  1.8868621092
##
##  1.3769953198  0.3906856209 -0.4845725825 -0.6068159681  0.2440944086
##
##  0.9629503072  0.6349000749  0.3483142501  0.6573853292  1.0971245055
##
##  0.9234370031  0.9518418611  0.8898975469  0.9652927607 -0.0843519824
##
##  0.5439590864  0.2337018800  0.2659418285  0.1106481577 -0.3507504875
##
## -0.1026715798  0.6966769746  0.1441760642 -0.3050050647 -0.1132714873
##
##  0.1070572436  1.2117129552  2.0348498367  2.1546920966  1.5132979185
##
##  0.1157612514 -0.2639051244  0.1029849908  0.4032087842  1.4961855221
##
##  1.7557025660  1.8108836228  1.6700336847  1.7694013129  0.4597053029
##
##  0.2812457436  0.2035861555 -0.1763616104 -0.8260575282 -0.0010369832
##
##  1.3250686564  0.7533708610  0.2279142929 -0.0850709027 -0.5437632697
##
## -0.4099585510  0.1062512719  0.4693062370  0.4617443605  1.2899011983
##
##  1.0802964853  0.7590040001  0.8644748082  0.1862626290  0.1581256203
##
## -0.0141901245  0.2261779412  1.0949569059  1.0522163985  1.1693281974
##
##  0.9450693691  0.4909496145 -0.2021521730 -0.0597015810 -0.0659224787
##
##  0.4224660519  1.2075246338  1.1522359282  0.4054105805  0.2992741192
##
## -0.4500844994  0.1913087918 -0.1762282043 -0.4130495601 -0.3432942896

```



```

##
## 1.0919732737 1.0377595735 0.7184455653 1.0613544716 -0.3020374761
##
## -0.5425835731 0.1346555496 0.7342296120 0.0089258238 0.0353139823
##
## 0.0704938219 -0.4486328176 -0.5808495717 -0.0357143098 -0.0527100012
##
## 0.1939192339 0.8037556679 0.5668543347 0.2160336619 -0.0709160861
##
## -0.1257887723 0.2935287008 0.0148381291 0.2703779082 0.4763454546
##
## 0.7934691020 0.9552871878 -0.4101348340 -0.2343715562 0.8078800764
##
## 0.6979637378 0.1990417174 -0.2195942228 -0.0253043871 0.2428308232
##
## 0.0949327068 0.0297383224 0.2643631624 0.0933613816 0.2150739550
##
## 0.3236314185 0.3246700162 -0.0578705076 0.6336452743 0.6386910752
##
## 0.1572219978 -0.1482083720 -0.0765754577 0.3439809280 0.5473837869
##
## 0.0269065447 -0.6935541171 0.0527576607 0.6580452652 0.4136136616
##
## -0.8176230404 -0.4848782562 0.6268791942 0.2974511906 0.1110177784
##
## 0.5637260573 0.1225171006 -0.1185582655 -0.3819736274 -0.6414094852
##
## 0.6184995648 0.2591031333 0.6550901492 0.7243563394 0.4561839072
##
## -0.5071569172 -0.3250181938 -0.3884966957 -0.1751045828 -0.0697725676
##
## -0.2083370996 0.4596716284 0.2217825131 0.2437299550 0.1555180694
##
## 0.8992737727 0.2608624509 0.0746627356 0.5055311481 0.0058540146
##
## -0.9640083554 -1.0078470915 -0.7394485968 -0.5560382905 -0.0099313863
##
## 0.1590316179 0.1304056248 0.2843979393 -1.3611227546 -0.8970831808
##
## -0.3599453958 -0.8986902020 -0.5561240834 0.2524049729 0.6955394081
##
## 0.2214893382 0.4786461750 -0.1657604705 -0.1269470816 -0.7146800741
##
## -0.5024007489 -1.5622862362 -1.5373490796 -1.0528018918 -0.2371766738
##
## 0.6620068896 -0.4867637510 -0.1411636592 -0.3214454245 -0.3672062011
##
## 0.0501782084 0.2603946653 -1.1207615403 -1.2791013054 -0.5320603637
##
## 0.2471511633 -0.6598420088 0.2966972857 0.0060935599 -0.4961104149
##
## -0.0060942766 0.2347156884 -0.2193304333 0.2325364765 0.2781075264
##
## 0.1249155831 0.2702652641 -0.4664256961 -0.6344559036 -0.0474845026

```

```

##
## -0.0282511094 -0.4547950838 -0.2007856377 -0.5976541758 -0.6607348925
##
## -0.0985629104 0.4015079294 -0.9870481907 -0.2437017090 -0.1898350768
##
## -0.4749127869 -0.0313576510 -1.0111530891 -0.1585213633 0.2822980665
##
## -0.3701451934 -0.8254840439 -0.0802409965 -0.3935898509 0.4913785553
##
## -0.1692067586 -0.1065362661 0.3440157859 -0.0755638035 0.3771521617
##
## 0.2606246440 -0.2936661386 0.0104954572 0.0631986739 0.2139331543
##
## -0.2287261821 0.1897925016 0.0910904609 -0.8993371510 -0.4770625372
##
## 0.2288454597 -0.1551212713 -0.7653137751 -0.2946531230 0.1160419141
##
## -0.9011024635 -1.2518416265 -0.8451951252 -0.5557572972 0.1153149467
##
## 0.3809121911 0.2257726020 -0.4949212560 -0.1164074272 0.0808869142
##
## -0.0009630608 -0.1666259274 -0.4142006078 -0.4100696274 -0.8005756431
##
## -0.6694965807 -0.2198034580 -0.0446204610 0.0688999826 0.1917986089
##
## 0.2609253162 0.3896791303 0.0512543177 -0.8469282085 -0.4685020642
##
## 0.3558221168 0.6421467810 0.2551608624 -0.0731139192 0.2775114423
##
## 0.3394909025 0.3375815136 0.2444015489 -0.0173072706 -0.1018453003
##
## 0.2080623110 0.5828321072 -0.0455569311 -0.7234722085 1.1425048241
##
## 1.0373248274 -0.0670537149 1.0014798403 1.4333128526 0.6973257058
##
## 0.5700316763 1.2921630610 1.1314226105 0.1780362369 0.0807242184
##
## 0.1030044042 0.1898380080 0.0168491228 0.0237547339 0.8207109775
##
## 0.6851349297 0.7494710785 1.0602004458 1.2011692482 0.6242397880
##
## 1.5730768123 1.0729071982 2.2732889571 1.5948083854 0.0959846420
##
## -0.4901085377 0.6938488439 0.7516859303 0.4247018289 0.4628663381
##
## 0.5710460263 0.7983877342 1.6890780050 2.4837947860 0.3699491272
##
## 0.7384185089 0.2706065345 0.8648087832 1.1819049042 0.8184128968
##
## 0.5894411763 0.6343655661 -0.2878572906 1.1644240988 1.5100258906
##
## -0.1574233681 0.7693479844 1.2092642890 1.1809015447 1.2792065072
##
## 1.1551808656 1.0826319648 0.7589484495 0.5071089319 0.5646564154

```

```

##
## 0.2139281534 0.6532793109 0.3857300030 0.9994332494 1.3071670279
##
## 1.4883316711 -0.2644359739 0.2420713112 1.4224484517 1.0357290730
##
## 1.1941368989 1.4429119914 1.2694770958 0.4936360999 -0.3725670519
##
## -0.2958432993 0.2312007962 0.3784183846 0.5113965893 0.2024585644
##
## 0.2851664074 -0.1529225035 1.2083323934 1.7579484473 2.1093944859
##
## 0.0619116240 0.1211361345 0.7707371525 -0.2413685861 1.0272256979
##
## 1.6316364569 1.0052461026 -0.0214640093 -0.6565088631 -0.5095172037
##
## 0.0954379483 -0.1017632108 0.1199894324 0.4324029616 0.5606226667
##
## 1.1842275910 1.2935274985 1.0382628841 0.5084421681 0.6468669253
##
## 0.0395192220 0.1862645495 -0.1006767932 1.5905109625 0.2169185878
##
## -0.5839396689 -0.9467877542 -0.5317824393 0.0207940823 0.2297756222
##
## -0.3886906633 -0.1490122993 0.6278193075 1.3015559862 2.1325719174
##
## 1.4435816187 0.6076106977 0.2634408233 0.3623316709 0.2246769663
##
## 0.6790569905 0.4448918894 0.0342493719 -0.0210365607 -0.6553843775
##
## -0.3192650070 0.0735030723 0.1862579738 0.0565945930 -0.1317021812
##
## -0.3905848311 -0.1023747609 0.1200739070 0.0168953863 0.2545132900
##
## 0.1992494416 0.2096642536 -0.2225726267 -0.2429976006 -0.2247033218
##
## 0.5964316082 1.0173644655 1.0047628452 -0.2153538462 0.2700712431
##
## 0.4407817341 0.4211573024 0.1429995579 0.1809427988 -0.4759376522
##
## -0.4285088909 -0.2194056071 0.3215944109 0.6204097824 0.3568477951
##
## 0.7895604328 0.7110985929 0.0182551616 0.0962142572 0.7051208361
##
## 0.3577107148 0.4530616687 0.5540113232 0.2183401656 0.4959305196
##
## 0.8346628451 0.4662030286 0.1316815365 0.1062641955 0.3978056267
##
## -0.1809725223 -0.4519838353 -0.3039635692 0.1147372091 0.4916699178
##
## 0.5441719060 1.3719544212 1.3490081811 0.6919232084 1.1076849517
##
## 0.0083069235 -0.2820642788 -0.2873657334 -0.1536235369 0.1458109899
##
## 0.5422265980 0.2696216177 0.2012917808 -0.0595543976 -0.4609180902

```

```

##
## -0.0177502728  0.2222967516  0.5365397000  0.3568338980  0.1830925256
##
##  0.7356110908  1.4031149156  1.2767745900  0.8122775432 -0.4031217865
##
## -0.9100902854 -0.7012325818 -0.4199765463  0.2375905973  0.3588100914
##
## -0.3279121836  0.0279988481  0.0114101060  0.1438236835 -0.3174400278
##
## -0.0725134079  0.1033201120  0.5353912307  0.7080659640  0.5517960120
##
##  0.7117185043  0.8178333901  0.5149864159  1.5296209476 -0.9351498305
##
## -0.6596821762 -0.2279875067  0.4927645571  0.6472438000 -0.1751896864
##
##  0.4440929911  0.1496844304 -0.1817913598  0.1493966671  0.1125520393
##
##  0.1305442174  0.3073584651  0.0224853159 -0.2198626039  0.0256732188
##
##  0.5750249258  0.8416529449  0.5949308460  0.8335046475  1.2976782267
##
## -0.2306682401 -0.3153311303  0.1835255773 -0.1776849147 -0.2956974676
##
##  0.0772824460 -0.1829786525 -0.1102217170  0.3513091421  0.1762120580
##
##  0.4925827864  0.8287039103  0.5020777778 -0.0037990879  0.5442620385
##
##  0.4011943054  0.0679545664  0.0341448917  0.1259733672  0.5737606093
##
##  0.2784270863  0.0686816769  0.3892018142 -0.0136380824  0.1278106261
##
##  0.5398533916  0.8182489170  0.5134427110 -0.3610150521  0.1784445276
##
##  0.6762173104  0.7729525412  0.2742371831  0.1450694158  0.8312216680
##
##  0.2185476851 -0.0666251165  0.1758061884  0.5284516551  0.4693845154
##
## -0.1231123939 -0.5972687990 -0.1768313488  0.6916800812  1.4761313180
##
##  1.3281708158 -0.0581331930  0.6981792937  0.3011009346  0.0749342071
##
## -0.4714155650 -0.0950468665  0.1308438508 -0.0190441231 -0.0380122393
##
##  0.1141311455  0.3278985532  1.1222455739  1.6488761064  0.4032986311
##
##  0.1779004469 -0.0777293814  0.0166811053 -0.0869822574  2.5924455328
##
##  2.1139039288  1.0748309238  1.7183049194  1.0789073823  0.6558964865
##
##  1.3168470442  1.5210715379  1.2425541511  2.1049473892  2.4128231901
##
##  1.4415811148  1.7389684445  1.9874127507  0.7801512347  1.1013981142
##
##  0.7953868963  1.8062493555  1.7304068010  1.0193343917 -0.0716274817

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```

##
## 0.1994995332 0.4356055565 1.0657300351 2.7186066305 3.3293324039
##
## 1.9126676998 2.1257287928 1.0520371264 1.0880112473 2.0869686774
##
## 1.6788192734 1.3117836347 1.9423796514 1.4298436112 0.9766564736
##
## 1.2651216981 0.9521361277 1.3724203444 1.3186991177 0.7679975382
##
## -0.0453509845 0.3857583073 0.4952379148 1.1212089969 2.7165528259
##
## 5.5375515071 5.3403060320 3.0655282052 1.6018050857 0.8186212377
##
## 1.5903599651 1.3884883943 1.8593731159 2.3977127225 1.1546470277
##
## 1.1275070376 1.4455033474 2.6073450828 3.1586169697 2.2972232038
##
## 0.7716719780 0.6876145938 0.7967733303 0.8550873261 0.7408244133
##
## 0.6321488448 0.7538189638 2.0486261330 2.2710409556 1.6384756787
##
## 1.6347446631 3.7507964465 3.9722398285 2.3884631605 1.1322037924
##
## 0.1703529249 1.5151023498 1.6374393036 1.3381734989 1.5764772371
##
## 1.9748014245 0.8044425963 1.3130301795 2.6337737336 3.6037728855
##
## 2.8908871080 1.0958406846 0.1938411763 -0.1699829309 0.0545382821
##
## 0.6673408491 0.9140484161 1.0660866223 1.3506636642 2.0108703537
##
## 1.7664050543 1.0022020539 1.0745217844 2.9099419508 2.0163849945
##
## 1.0765954440 0.4715405071 0.3631722871 0.6669637532 1.3450992406
##
## 1.2756607357 0.6157812075 0.5122005324 0.9283337443 1.1417033669
##
## 1.6008367651 3.0851159776 3.3083945326 1.9980024245 -0.1152218266
##
## -0.0312929958 0.2391463956 0.5619919352 0.9080226597 0.5683640457
##
## 0.4486863659 0.6281532257 1.0779163733 0.6997365355 0.3297052831
##
## 0.8674278438 3.1118293266 2.0000069797 0.9571938583 0.4545553431
##
## 0.1792455826 -0.0283458024 -0.1201689697 0.3842351701 0.1035919100
##
## 0.1323589339 1.2213594960 1.3633801938 0.9030989651 2.6369971571
##
## 3.5051157676 2.6293773604 0.9551204796 0.6427211294 0.5425489227
##
## 0.4787553761 0.5720851793 0.7077074021 0.4235947699 0.0703121322
##
## 0.2626409940 0.8335144205 0.7208066918 1.2565843587 1.4429602096

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```

##
## 2.2575532682 2.0618406084 0.9829872841 0.2319318056 -0.0008242276
##
## 0.4377399431 1.0319162472 0.9683544825 0.6345566231 0.4394521945
##
## 1.1431794681 1.8293125758 0.7021637136 1.5450912154 1.9623104523
##
## 2.1149928791 2.3561323317 0.9535001409 0.9760693263 0.9012054780
##
## 0.4633173508 0.4087461255 0.8304918430 0.5331873633 -0.0214732523
##
## -0.2709430726 -0.0937397023 0.3580371911 0.5685048153 0.6945291042
##
## 0.9984711468 1.5680418403 1.7649902462 0.8225522951 0.1769343590
##
## 0.6742031066 2.1329760760 1.8730319812 1.2468711039 0.4418815494
##
## 0.4577320390 1.3105206997 0.0785073765 0.2210951839 1.2972935468
##
## 2.1807455783 2.8767227849 1.2379173586 1.4613921531 0.5221447551
##
## -0.4207408097 -0.1132520702 1.2245718818 1.6658610859 -0.2682988533
##
## -0.0522526107 0.1103576554 -0.4872195861 0.2133592369 0.7490447050
##
## 1.0476528058 1.4616347776 1.4668099761 0.8056725256 0.6181869085
##
## 1.4961140273 1.8797288769 1.3508409102 0.2221498644 -0.3034479686
##
## -0.0436996157 0.5625664753 1.9011704168 2.1413647489 2.1018339090
##
## 1.9530475027 2.3904676627 1.0685228962 0.5200138652 -0.1593984689
##
## -0.2877164627 -0.0422363211 0.5687788380 1.1498896529 -0.0066540954
##
## 0.2502729474 -0.0052306440 -0.9042291792 -0.2914450546 0.0788577428
##
## -0.3606382105 0.8780159652 1.0060903237 1.2991727521 0.5806372416
##
## 0.0133270566 0.0831041323 0.4761179386 0.8999682376 1.2102594585
##
## 0.4496232945 1.2937906734 1.7912290428 1.1115818760 0.4349036257
##
## 0.5544851625 1.3150893592 1.7473637577 0.9026747768 0.4688248751
##
## -0.1665338586 -0.1308675667 -0.1880449119 0.9555799008 0.4870074914
##
## 0.5035266084 0.1489851279 -0.6329389568 -0.9815609745 -0.6163324336
##
## 0.2135287765 0.8420133175 0.7452996121 0.6009495305 0.1993909522
##
## -0.0528383787 0.1923518219 0.7111594802 0.2783361483 0.8909150993
##
## 0.1272032637 1.2745019654 0.8792151807 0.4531725094 0.2975945924

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```

##
## 0.1897501317 0.5763801534 1.5126142789 1.2503152080 0.8238824768
##
## 0.3228753709 0.3230986035 -0.3926088618 -0.3345817508 -0.4259138928
##
## 2.6771641612 0.7743714820 0.1878540931 0.5077769597 0.5869141280
##
## 0.0352157487 -0.1030750816 0.5278371599 0.8478730356 0.5766064833
##
## 0.0989127714 0.0369424037 0.0419228104 0.0773863784 -0.0169446730
##
## -0.4072418706 0.1657126664 0.1142616394 1.4778595785 0.7511505596
##
## 0.1819837047 -0.6137454435 -0.2977899986 0.5169685667 1.1759997440
##
## 1.3152844155 1.7826302521 1.0222073832 -0.0584208793 -0.8715662864
##
## -0.3961345251 -0.5775093546 -0.6049668941 2.1941505436 0.2670145761
##
## 0.3125115437 0.4436065383 0.6716292184 0.7314552479 0.4763965940
##
## 0.2423672257 0.5860718710 0.7006173902 0.5037751584 0.3691973597
##
## 0.1646985990 0.1006084219 0.4179477678 0.0919478122 -0.7311882277
##
## -0.1422256935 1.1961107281 0.9257159192 -0.0490034595 -0.2082633396
##
## 0.3863253051 0.9252980973 0.5205379913 0.7643281980 1.7522090297
##
## 1.4188117287 1.1585848995 0.9085255585 0.1220407143 -0.5383493935
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## -0.0072767382 0.5368346918 1.4452330590 -0.1318620688 0.5630396515
##
## 0.4678228241 0.4506020912 0.5849307708 0.3324532998 0.2647053090
##
## 0.0893855278 -0.2363736396 -0.4726050018 -0.3033528696 0.6274674206
##
## 0.9945718920 0.9925452426 0.4620906469 -0.2921417072 0.2998500082
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## 2.4536601488 0.8798123106 0.8500515373 0.1432116379 0.2859651617
##
## 0.9717906631 1.0082840924 0.2154418850 0.2904066310 0.9476605196
##
## 1.2737613650 1.5558357038 1.5276501527 0.6943259686 -0.1516563013
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## 0.2805921835 0.8461319607 0.0648366496 0.8093813851 0.3338899501
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## -0.4466735292 -0.6089307127 0.1794211607 0.3298681233 -0.3694514944
##
## -0.3291535655 -0.5324309769 -0.4681896321 1.0382774547 1.4428152611
##
## 0.6129528103 0.7918206407 0.8418927092 0.6060907111 1.1650976439
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## 1.5040923085 0.4461790038 0.4232265642 0.6811919265 0.9482142429

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##
## 0.3214139606 0.4289356448 -0.1893099858 0.2673241291 0.7482313312
##
## -1.0972418335 0.8872841090 1.3806216460 1.6332451324 0.8935425206
##
## -0.1749219430 -0.2767901620 1.1028101730 0.5176834050 1.2030607244
##
## 1.2044232665 0.8705224328 0.9555799166 0.6654353303 0.2967668009
##
## 0.1799453598 -0.3737270790 -0.0435278801 -0.1525168980 -0.0751157281
##
## 0.8213337493 0.6080392148 -0.1624293847 0.9018843822 1.1140842598
##
## 0.7635830245 0.6020532611 0.6537424788 0.0509633913 0.0634493531
##
## 0.7242563176 1.0305266783 0.5010546213 -0.5463273460 0.7581881447
##
## 0.3632582505 0.9188887962 1.5980403348 -0.2217239774 -0.7850630487
##
## 0.8225060703 0.7372121458 0.7969452966 0.6649357311 -0.1458558890
##
## 0.5935523603 0.8365427897 0.9590604973 0.5711156161 0.7660864290
##
## 0.8662869150 0.4171580596 -0.1380863465 -0.2841414712 -0.5004756730
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## -0.2157152408 -0.1063292395 0.7427702115 1.7640558700 1.2949786475
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## 0.4621239401 1.2545175877 1.1751823340 0.6852249820 0.2948069336
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##
## 0.5980317666 1.5919061470 1.7494113206 1.0961031877 0.3032534775
##
## 0.6162845838 0.3119256488 -0.0303244858 -0.3675167423 -0.5946740582
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## -0.6935620788 -0.4932439493 -0.7345316578 0.1862723428 1.3052616899
##
## 1.3669004056 1.0883369541 1.3192246670 1.0030635994 0.5990837862
##
## 0.3644359651 0.3281540426 0.3187591800 0.0500541845 0.0311231710
##
## 0.0918018632 0.2338648574 0.4097788830 0.8959550288 -0.1221215869
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## -0.2912342981 0.1506059857 -0.3667278188 -0.7375751735 -0.5599584771
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## -0.1408094555 0.7927803309 1.4439665695 1.2235167077 0.4964914888
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## 0.1760887036 0.4713609799 -0.1437858929 -0.5201787951 -0.5222317862
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## -0.3679939638 -0.2336663518 0.4406565939 -0.2585847805 0.0032622027

```



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##
## 0.7350718099 1.0914266215 0.9857634590 0.8733995204 0.3154023465
##
## 0.3924740951 0.6402995644 0.5217636550 -0.0741909612 0.3143004747
##
## 0.9368551610 1.1885203934 0.6417163402 0.0197848524 0.7609391915
##
## 0.5033955830 0.6006989124 0.2243943944 -0.1422178705 -0.0413186068
##
## 0.2600596523 0.3234753224 -0.1404007035 -0.3056500282 0.1000036410
##
## 0.2351619701 1.3558973359 1.0230011289 0.1650705502 0.2139910768
##
## 0.7536169809 0.5718114215 0.5188672388 0.6661672219 0.7481505710
##
## 0.6737630152 0.3945740436 0.2988665745 -0.0427228031 0.0087990754
##
## 0.4501219823 0.3506637688 -0.1771408145 0.7644543742 1.2056315639
##
## 1.4865116457 1.0682681544 0.2012360752 0.8982781703 2.0752732795
##
## 0.5290400150 0.6682407954 0.5584116425 0.5605953409 0.5006908208
##
## 0.7697915100 0.8095168142 -0.5022363870 -0.3137047999 -0.2552382816
##
## -0.2821548494 -0.1264719557 1.7602630077 1.8436720945 0.2827983783
##
## 0.3118083484 0.9981379124 0.6044822041 0.8430329268 1.6478613257
##
## 0.6854743496 0.1921352332 0.1235501376 -0.0482571725 -0.0107982024
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## -0.0458630969 1.1759764954 1.1794221468 0.5752047595 0.8121312833
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## 0.4898147848 0.7292356829 1.2804626519 0.8955772649 1.2041591986
##
## 1.7357372313 -0.2519077101 0.2501575545 0.7791380358 0.4557881422
##
## 0.0716214651 1.2079374880 1.3276479526 0.5182377858 0.4654294067
##
## 0.1143556012 -0.1959897536 -0.0553046260 1.6953633245 2.1105642992
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## 0.6717984444 1.7097582322 1.2903050164 1.7875075334 0.9361326231
##
## 0.3056889958 0.1946602649 -0.0995859290 -0.0434381803 0.5359167623
##
## 0.6013778831 -0.3077568388 -0.3859855953 -0.7826921663 0.0583171194
##
## 0.9177953984 0.1790920240 -0.7762640556 -0.4352396696 0.4603965598
##
## 0.5510431411 0.8212691905 0.3621139571 0.2074773598 0.5557083814
##
## 1.0429933291 1.4440940301 1.3422445852 0.3521360406 1.8380961525
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```

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##
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## -0.1213645682 -0.0690652742 0.0301628435 -0.1412216357 -0.3787270731
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##
## -0.0869147185 0.6999456306 -0.1231767475 0.1755573209 0.1983246868
##
## 0.5040106554 0.7820300031 0.7617667030 0.7260938212 0.4550963086
##
## 0.9220811456 -0.2252734550 -0.2862554419 0.5182340112 0.6869558310
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## 1.0218980678 1.0574868922 1.0504708713 1.2291097873 1.5523163059
##
## 0.0936386028 -0.3427240395 0.0221062885 0.2045766869 0.4728584410
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## 0.6759048381 0.5527362378 1.0157447883 0.0424844516 0.1992539491
##
## 0.6576653417 0.7497629186 0.7888212599 0.0471113962 -0.1176034615
##
## 0.3777018345 0.7914042676 0.4583073975 0.0878992902 0.0074664214
##
## -0.0379132750 0.9860986372 0.0460579357 -0.0673060380 0.0411301108
##
## -0.0372125580 -0.0347700042 -0.0789333424 0.0035656932 0.3139866432
##
## 0.4210446322 -0.3083693522 -0.1939914789 0.2070000065 0.2157525008
##
## 0.1702443821 -0.4172743605 0.4231262561 0.3938201739 -0.2318736600
##
## -0.6653933451 -0.1243226904 -0.0321071842 0.1743981193 0.1649367793
##
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##
## -0.5151573762 -0.9553136994 -0.0650794685 -0.2967186245 0.7944367206
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## -1.3218021186 -0.7388963484 0.1991047569 0.1416659446 -0.2308672255
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## -0.6441094039 -0.7319240668 -0.5579797656 -1.1856986190 -1.1115032126
##
## -1.2484764403 -0.8371979032 0.1188853978 -0.6539785482 0.4082325878
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## 0.3654335185 0.7129055315 0.7340345001 1.0606657142 -0.1355409231
##
## -0.4917051694 0.0672488371 -0.3184156052 -0.5159469078 0.0286116388
##
## -0.4000162593 -0.0498587398 -1.0419682584 -1.3749572071 -0.6981944519
##
## -0.5404049693 -1.5667761298 -1.1138735013 -0.7592157267 -0.2361225756
##
## 0.4515865810 -0.5898400809 -0.4141014896 -0.1811961767 -0.2271051621

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##
## 0.2446457302 0.3656884092 0.3011368312 -0.4567530313 -0.4615933352
##
## -0.1352107738 0.2368294821 0.2257806438 -0.6074758941 -0.2804222699
##
## -0.6845708005 -0.2936111801 -0.8688016734 -0.7031239381 -0.7977691934
##
## -1.2509821958 -0.8444797216 -0.5180922242 -0.2660589853 -0.0022347494
##
## -0.1492196793 -1.2089949583 -0.8065110441 -0.4048958463 -0.2578129391
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## -0.4328792553 -0.3762498307 -0.3563218624 -0.1697958616 0.0712010215
##
## -0.8179035665 -0.5664175400 -0.8453703789 -0.5734214978 0.1070247301
##
## -1.1786444527 -0.1365864940 -0.4137131471 -0.5302733033 -0.5011095272
##
## -0.2727954755 -0.4394602165 -0.2631030686 -0.3663161366 -0.6514995966
##
## 0.1202356388 -0.8695981331 -0.8920518684 -0.6983913629 0.0275290765
##
## 0.4190521232 0.2093249841 -0.1421350480 -0.6423599573 -0.3876698048
##
## 0.1660224635 -0.0133067226 -0.3349780435 -0.9682796389 -0.5016151549
##
## -0.4570688966 -0.4547227767 -0.3585071728 -0.6268593287 -0.2278178216
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## 0.3097915705 -0.1897592739 0.2593037165 0.3768092373 0.0394150658
##
## 0.2881866585 -0.5226822367 0.0618274290 0.5812956854 0.7048708599
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## 0.9406867294 0.7611183066 0.4113739336 0.0045776445 -0.0905633800
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##
## -0.1121811900 -0.1428126715 -0.9234620556 -0.9073306665 0.1327247793
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## -0.7815216691 -1.4333669693 -1.0145130003 -1.6408000331 -1.0733876731
##
## 0.2233209134 0.8063636006 0.4843032068 -0.0512232898 0.2825182018
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## 0.7887010465 0.5798872118 0.3082111086 0.8681969592 0.9367298911
##
## 0.5153144351 0.5677723605 -0.2193539626 -0.2516858663 -0.2651386424
##
## -0.7830768384 -0.1909165765 0.4926340955 -0.2829586672 -0.2930303381
##
## -0.4795248046 -0.4097843664 -0.8886607570 -0.4783141694 -0.7737195659
##
## -0.5575155019 -0.2681429130 0.0362785084 -0.2454144199 0.3850092277
##
## 0.5425719351 0.4821180074 0.5153948833 -0.0100890176 0.6454280027
##
## 0.6462660104 0.3368994810 0.3789884383 0.4161700623 0.5560582875

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##
## 1.2081804721 1.4652095268 0.6439481437 -0.1365798909 -0.8072491132
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## -0.3160762085 0.0898354610 0.4105495813 0.3264560161 -0.3178005323
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## -0.2728193425 0.0194909760 -0.4651659902 -0.1293873038 0.1542620481
##
## -0.2776717602 0.9773111157 0.6607516079 0.8409837774 0.4067528666
##
## 0.8204241453 0.6216809667 0.4513506625 0.7624737466 1.1330468785
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## 1.0745986914 1.0719326366 1.5703628090 1.5870960715 0.9721462594
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## 1.0201903528 0.6361507488 0.2112862388 -0.1262559902 0.9847555049
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## 0.9156741411 2.0828666782 0.8485461420 0.5333548744 0.7793128558
##
## -0.2041769207 0.0775009721 0.7830667201 0.4452745946 0.1386284647
##
## 1.2836002003 0.8262125383 0.9717704642 1.3171229493 0.9415000378
##
## 1.0022307107 1.2727354046 1.1110747171 0.4849988466 0.4048988160
##
## 0.8549305009 1.4970525500 1.3402096193 1.3394895863 0.8192953495
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## 0.4246253856 0.3601163431 0.8805003494 1.4098373574 0.0479755198
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## -0.1102409079 1.2009903742 1.1829844576 0.6079522575 0.6389721965
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## 0.9016780569 0.4878275756 0.7448717125 1.3741623360 0.4012064511
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## 0.3374399901 0.6304677419 0.6452426988 0.3449329748 0.6125082946
##
## 0.9892430276 1.1532475605 1.0210051205 1.0130877831 0.5236277438
##
## 0.5590032105 1.2427903016 1.4443186248 -0.2990771051 0.4751316962
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## -0.0322633299 0.4615261352 1.0704575162 1.0130741679 0.7290790861
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## 0.6728303086 0.7919248399 0.3326616963 0.2093237262 0.5131065135
##
## 1.0264945561 1.0039721198 0.0560708786 0.6965716822 0.7475537306
##
## 0.6855079875 0.1634321175 0.8043838460 0.5644733063 0.9213417095
##
## 1.1811674525 0.6464353032 -0.9944678158 1.1036186313 0.7920479827
##
## -0.4852819914 0.3969799153 1.5146459752 1.8145630749 1.1335620762
##
## 0.8936399930 0.8510893328 0.3918091514 0.3073379724 0.1230729798
##
## -0.0383626973 -0.0521478206 0.9279684631 0.9723967055 1.3593227786
##
## 1.1032571629 -0.3139258799 -0.4408697992 0.7470994823 0.6091298287

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##
## 0.8347466432 1.5238677774 1.4902934108 0.6849666855 -0.4029977363
##
## -0.5045685462 0.5938330367 0.0992426533 0.6128846206 1.2443790877
##
## 1.0479559513 -0.4796804582 1.0265404709 1.4526433176 1.4834719951
##
## 2.1050732713 0.0128406484 -0.3338312091 -0.4642558417 0.2687708449
##
## 0.2685507866 1.0310875543 1.0784947351 0.7289732079 0.2956634910
##
## 0.4777885335 -0.1348071004 -0.3005375015 0.5707901839 0.3282415358
##
## 0.6928343578 1.1900271859 0.7124197739 0.1110061186 -0.1200167197
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## 0.9414420736 1.1185575845 1.3630165276 1.6432691552 -0.1352003954
##
## -0.2312603379 -0.0599305083 -0.0021809152 -0.2489006239 0.8089989680
##
## 0.2530694188 -0.1507620314 -0.1407813077 0.1283450875 -0.1425100963
##
## 0.0279331854 0.6657686524 0.1732971121 -0.1779559013 -0.0890604655
##
## 0.5799099568 0.5975614515 0.3644985112 0.1590746819 0.3449012651
##
## 0.2944879740 0.0368062990 0.7622746074 -0.0819452784 -0.0658499267
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## 0.4889216818 0.4243735539 -0.1926256446 -0.5159457201 -0.5832835675
##
## -0.7487463276 -0.5964198266 0.3146897520 -0.2884378698 -0.8402964696
##
## -0.7807973879 -0.4419284797 -0.3022555586 -0.3802564339 -0.3535489165
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## -0.2534445555 -0.2485616131 -0.3531697862 0.4013511831 0.7950028553
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## -0.5535452876 -0.2181084335 0.7653036726 1.3776300577 0.7329528759
##
## -1.0761501229 -0.9743902610 -0.5045919219 0.0630029115 0.6176941715
##
## 0.5145903741 0.0309306618 -0.2919517815 0.1245504981 -0.2205267171
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## -0.4039866778 0.3876846572 1.0443832028 1.2562615529 0.4738777643
##
## 0.4803702644 0.6461545737 0.4337275531 0.4580220708 0.4064061559
##
## 0.2978998572 -0.1133742129 -1.3549853353 -0.0858343227 -0.6050901620
##
## 0.0961093714 0.8111494433 -0.1440779582 -1.9220298417 0.7842461883
##
## 1.2819992537 1.6102910163 0.8812988657 0.2736869663 -0.0071632658
##
## 0.5470339325 0.5056042508 0.2497116951 -0.1221757717 -0.4660647809
##
## -0.9190695685 -0.1233451871 -0.1852804165 0.6456046976 1.5914173695

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##
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## -0.0405727151 -0.1723999231 -0.0188157635 0.0808363086 0.2300754199
##
## 0.2468610967 0.4497083129 1.0243250808 1.0119405549 1.1222256887
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## -0.1648977716 -0.0825729958 -0.0408639538 0.0916538715 0.3709521710
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## 0.1359567491 -0.0934586385 0.3468573496 -0.4567180728 -0.3740452179
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## 0.0262957514 0.4930282218 0.7016017071 0.5356525580 0.6226321134
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## 0.9821107291 0.6786449109 0.2544371056 -0.1970080816 -0.0823924764
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## 0.2374876597 0.0258662718 -0.2008531044 0.3574052674 0.7117858711
##
## 0.8488196553 0.2761540330 0.7148790578 0.2092673565 0.2029698665
##
## 0.3923669060 0.2914055579 0.1902342211 0.2042642049 0.1910298894
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## 1.1895704302 0.5868453955 0.4208378898 0.5885841777 0.4882281691
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## -0.3401428434 0.2963152704 1.1934864634 1.1087253790 0.2954483949
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## -0.5506496809 0.4726592501 0.7152793625 0.6136503492 0.7883107371
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## 0.8399297996 0.1279401437 -0.3606199330 0.0786016551 0.6225742416
##
## -0.0224481144 -0.6376392392 -1.0596216202 -1.1553293067 -0.8230549926
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## 0.0841273782 0.0780172299 0.2007582312 -0.3220718133 0.1716213272
##
## 0.5610286022 -0.1209255102 -0.2136637207 0.2498056907 -0.3221943218
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## 0.7622006109 0.5284318163 0.5398716660 0.5377617031 0.2554027825
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## -0.0076396827 -0.0474780394 0.0479685046 0.0911575781 -0.6789163953
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## 0.8645366280 0.2657851461 -0.6297069939 0.5887782158 1.4850397164
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## 1.7507724495 1.2493510251 0.1589351032 0.1281674277 0.0264248803
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## 0.4267173441 0.8179125209 0.5208839197 0.6957478328 1.8658243671
##
## 1.3363372916 0.9400105569 -0.0454865066 1.6723775674 1.7289210981
##
## 1.8932763573 0.2217613172 0.4817300822 1.1679041547 1.4849088867
##
## 1.6288127360 1.6478769125 1.5294884371 4.3067840033 0.4746085171
##
## 1.6754395862 0.9770466481 0.7274478850 0.4713824202 -0.2709804116

```

```

##
## 0.9804051739 1.2974142270 1.2273114571 0.7670751542 0.9767335759
##
## 0.8280265740 0.4927817716 0.8942659296 1.2615813310 1.1175566729
##
## 0.9961569062 1.2799201279 1.5936610404 1.1903258746 0.6140862174
##
## 0.5626260375 1.3563863020 2.0957978321 0.8155162878 0.3148979010
##
## 0.8412146925 1.0911829465 0.3685684182 1.6123841665 1.4640508562
##
## 1.1200804309 1.2208957132 0.7795083701 1.5473575675 1.1969330263
##
## 1.0367084259 1.0069097293 1.0442130526 1.3003849057 1.1171833043
##
## 0.7681064555 0.8574704915 2.1735384102 1.7192265236 0.6780009689
##
## 0.3385277960 0.7427127413 0.6833645651 0.5739081440 0.3996382065
##
## 1.1771438526 2.0916198094 1.8748947403 1.5444356516 1.4957356770
##
## 1.6394945213 1.6533901574 1.5121934572 1.4001391862 1.1018591897
##
## 1.2343311466 0.9785475594 0.8722183429 0.9510539859 1.1822039675
##
## 0.5580902042 1.7902081603 2.6257341997 1.9172048251 1.2267284163
##
## 0.7677344861 -0.0617556721 0.8925533659 1.1854999099 1.1690035633
##
## 1.5956875019 1.9364054823 0.9288043543 1.3485913618 2.2789376991
##
## 2.7769157943 2.2974334681 1.5717232073 -0.1596325105 0.3959919568
##
## 0.9385646360 0.7752630294 0.7486644937 0.6889223392 0.7735748922
##
## 1.1140142566 0.9812159975 2.7189951382 3.1660731723 2.2367752462
##
## 1.9240597696 1.5852380489 0.9706274120 0.7718060902 0.5635416390
##
## 0.3989091140 0.4489229596 0.6696067948 0.6410700730 1.3437329204
##
## 1.5238513074 2.8802074371 3.1466682267 2.1224595106 -0.4722996655
##
## -0.4579593352 -0.1107955097 0.3678800457 0.3331943573 0.3480776411
##
## 0.2490811921 0.0938921148 1.7678403143 3.2894529477 3.7972206076
##
## 1.8366560909 1.5373100989 1.1358574791 0.7613486852 1.0536167042
##
## 0.1274602017 -0.4341185314 0.9648793385 0.7870145828 1.8906078439
##
## 2.7688639780 2.3273714549 1.3203874127 0.5800597173 0.2182820021
##
## -0.0182360071 -0.1333623355 -0.4492645383 -1.5372102714 -0.8507632733

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```

##
## -0.6440634175  1.1359496731  1.7820068077  2.7977872460  3.7034189368
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##  1.8631576196  0.6730053403  0.0987855587  0.1919070396  1.0715173419
##
##  0.7785372400 -0.3897503822  0.5864867625  0.7461376509  1.6100777256
##
##  1.5518713867  1.3574180294  2.8569742959  0.4342183235 -0.0949071991
##
##  0.0573301798 -0.0207621123 -0.1382676908 -0.0815414394 -0.5006637607
##
## -0.2849532309  0.3246324933  0.4727206828  0.8997150776  1.6890863724
##
##  1.5480668839  1.0711517306  0.3399462055  0.0015939629  0.5644608456
##
##  2.1394793645  0.7799379663 -0.2831331926  0.0547773289  0.6610222932
##
##  0.4234234827  0.6366106811  1.6083225036  0.8221238128  0.0842068424
##
## -0.0076907591  0.4284059898  0.5865890151  0.2773592569 -0.0512434937
##
## -0.7885789158 -0.0447080649  0.5722119009  0.9104733982  1.3004180237
##
##  1.6009818896  1.2439402201  1.0379348466  0.5070558859  0.2035928992
##
##  0.5511550435  0.4065635198  0.2495201150 -0.0207236814  1.4061838216
##
##  1.2776890817  1.0063964764  0.7052706206  0.4232057627  1.8451170793
##
##  1.4661262351  0.7931827538  0.1284248027  0.6337386304  0.7589013776
##
##  0.0332630370 -0.4235340914 -0.0584294429 -0.5776058512 -0.1286510732
##
##  0.2579828575  0.6727872780  1.2443407995  1.7348590806  0.8880404214
##
##  1.1608673776  0.6694579966  0.0273887479 -0.0139291909  0.5674781972
##
##  0.6541288922  0.4859866812 -0.1174367803  0.5202677147  0.4574108050
##
##  0.7899258410  0.5275148552  0.3181376174  0.8052696546  2.6349543527
##
##  2.3684871871  1.9638682155  1.9299276967  0.7262039149  0.1670658170
##
## -0.2518711640  0.1743677303  0.0459407409 -0.2714060829 -0.1619543142
##
##  0.5735126368  1.3895577761  1.2651541054  0.6576603551  0.2529311811
##
##  0.0524280582  0.1682760035  0.6433201085  0.2998245558  0.2307300248
##
## -0.2764116179 -0.1687705779  0.2995229917  0.4101747073  0.6518507352
##
##  1.1859725217  1.4597141317  0.7029278926 -0.1356808594  0.0491074824
##
## -0.4068545729 -0.3122070758 -0.6723503696  0.5196753387  0.6840883310

```



```

##
## -0.0163754886 -0.3989604227 0.6761727225 1.4256077731 0.9338574076
##
## 0.8396763505 0.3758373060 0.2922948465 0.3900788477 0.0991468972
##
## -0.4527951150 -0.9278261175 -0.7639787450 -0.4323752768 -0.3048290451
##
## 0.1083758431 0.9852288508 1.5627342842 1.5481078214 1.0595827360
##
## 0.6679264318 0.0620425273 -0.7865961402 -0.1849810131 -0.4683189981
##
## -0.4337802630 -0.7797071139 0.2072171074 0.1557649174 0.3903985292
##
## 0.0629736930 0.2008509568 1.1866156838 1.2406207001 0.6902525833
##
## 0.8270809883 0.5421573744 0.0749053806 0.7160788573 0.6875707342
##
## -0.7267533934 -1.4067755804 -0.3685837042 -0.3515719459 0.2987536227
##
## 1.7114622924 2.0869826789 0.9908222026 0.4757302681 1.7181503954
##
## 0.8527002859 0.4103162858 0.2023300484 -0.0864746225 0.2141522764
##
## 0.0554545603 -0.1830675871 1.0195635297 0.7694067062 0.5700386119
##
## 0.5047472139 0.6006005687 0.9019170792 0.8005909180 0.3432890405
##
## 0.0286379257 0.5833217119 1.2020670466 1.6478156238 1.2482778058
##
## 0.1679219192 -0.3999512090 0.2271005014 0.2513603937 1.7447178194
##
## 1.3972398250 0.3578450268 0.2623683724 1.0241597819 1.7795986369
##
## 1.2834382868 0.7190763016 0.7674834601 1.1292273653 0.6901181007
##
## 0.0669477198 1.7749515413 1.4558906213 0.8736001107 0.7116879851
##
## 0.8668595049 0.4339132589 0.2554135048 0.2590443872 0.5474746021
##
## 1.3428718384 1.0695406592 0.7036368990 0.9506928596 0.7643338476
##
## 1.2098897974 0.7478472891 -0.2354285194 0.1127962989 0.8945678656
##
## -0.4453190725 0.9634469042 1.1504739653 0.9380637617 0.6903587416
##
## 0.4502105373 0.0196740601 -0.2747024854 1.5218756181 1.6082518333
##
## 1.2591978413 0.6846637285 0.3040375616 0.2250304637 0.2805035405
##
## 0.5192322357 1.1021929325 1.5974850943 0.5838100496 0.1233210797
##
## 0.6577514520 0.7312034077 0.2472695747 -0.2453365964 -0.3908084828
##
## 0.1933211402 1.2177165791 2.3330297850 -0.0923627085 0.7435020012

```

```

##
## 0.4489301614 0.1857326317 0.1661438644 0.0368987759 0.5705673494
##
## 0.4839593509 0.4525141026 0.1627207067 -0.2465569260 -0.3410784560
##
## -0.0632918177 0.0187324963 0.0319780764 0.9810124999 1.9843919819
##
## 1.0961023923 0.4439592906 0.5139352316 0.2539829202 -0.4657785694
##
## 0.1612982731 0.3166002596 1.0688129176 1.9460585554 -0.2534918711
##
## -0.2932506721 0.8082558656 0.7015166501 0.1379699669 -0.1295765485
##
## -0.1961351665 -0.0999962133 0.0938914882 0.1690416700 -0.1218451036
##
## -0.5077594166 -0.6787105348 -0.5744750401 -0.3003042550 0.5450680456
##
## 1.7230810125 1.5601061450 0.6655223914 0.2988133500 0.1687721469
##
## 0.3977731467 0.5169360474 -0.3577006145 0.4768829480 1.0323409213
##
## -0.3776007578 -0.0985161357 0.3651405485 0.7117243495 0.3721307130
##
## 0.0660923675 0.0003858497 -0.3587589029 -0.2983575762 0.3294772808
##
## 0.9283251012 0.5944166664 -0.1574745282 -0.0862435227 0.7171161527
##
## 0.1207114650 -0.4744323888 -0.2275487032 -0.0589396222 -0.5380802388
##
## -0.8032115932 0.4185037175 0.7915222672 0.8491411353 0.1592284664
##
## -0.3287570797 -0.5203560659 -0.0003930967 0.4012353273 -0.1031337218
##
## -0.2185455296 1.0319331966 2.4429645740 2.4533736066 -0.4812453131
##
## -0.3727403394 0.0291135538 0.2805950416 0.7971449178 1.7862212613
##
## 2.2797402711 2.0991902441 2.4028513293 0.9322712649 -0.2034705198
##
## -0.4394105155 -0.2398636839 -0.3251066756 0.0753994255 0.4639314956
##
## 0.3458622717 0.5413621504 0.5175703212 0.0937277860 -0.6537977362
##
## -0.4627591453 -0.1854284079 0.1386192717 0.1251638370 -0.0349060282
##
## 0.5763494000 1.7987907811 1.6257684132 1.6088558240 -0.2154453731
##
## -0.1065288430 0.0089199629 -0.1352538313 -0.6626419360 0.2344780549
##
## 1.2420067586 1.5329019576 1.2383086003 1.4777861322 0.4549940936
##
## 0.1040448342 0.2398885589 0.3570752757 0.5535280133 0.5610738385
##
## 0.2331181941 0.0164148815 0.4970362708 0.6080813548 0.2079101540

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```

##
## -0.2361410077  0.1483082229  0.0277355753 -0.5258124991  0.1762437392
##
##  0.9504193667  0.8803081794  1.2651613045  0.6919786546  0.6506639188
##
##  0.2148193049 -0.0998280300 -0.3555436378  0.0685233897  0.7082951602
##
##  0.5756478028  0.0036488664  0.1627809972  1.1899856289  0.3686622249
##
## -0.0173874987  0.1633020794 -0.4904661230 -0.0755569564  0.1258510539
##
## -0.0007923158 -0.2498150694 -0.6836495364  0.0186269298  0.1892680413
##
##  0.7740917303  0.5887558904  0.3354368261  0.1992093291  0.2666498043
##
##  0.7289742154  0.9371510866  0.6679562697  0.5270205836  0.4246169319
##
##  0.3566321688 -0.0258638018 -0.4305894541 -0.5784588279 -0.5377878596
##
## -0.3331505426 -0.3600532787 -1.0911601582  0.8485904355  0.1062311970
##
## -0.0130056216  0.1826475887 -0.0130801196  0.5262584297  0.7567607576
##
##  1.0658930928  0.9059049519  1.1189827817  0.5505610406 -0.2576016608
##
##  0.5225268856 -1.5145255554 -0.4282319277  1.1623740398  0.7866638223
##
##  0.1240755239 -0.0219334622 -0.2305181335  0.0902625587 -0.1039563359
##
## -0.2412150225 -0.0034768210  0.4531847486  0.9009595772  1.6997997634
##
##  0.2971878200 -0.1835629662  0.2460522650  0.5825962684  0.5121245756
##
##  0.2411404997 -0.1067223782 -0.1870874776  0.8116970659  1.0777405756
##
##  1.0439764663  0.0656650011 -0.2858666726  0.4131405565  0.8898284069
##
##  0.1351225489  0.0401320636  0.4787121450  0.3607536362  0.1665972768
##
## -0.0469310326 -0.2135394637 -0.5149674631  0.3603170458  0.9099947694
##
## -0.5527456217 -0.4362285267  0.4067325915  0.7410655291  1.1076864468
##
##  0.3221504769  0.1879594259  0.6104894389  0.3199688263 -0.7136096623
##
## -0.4582350542 -0.0322455162  0.1394501860  0.2959854184  0.4947808328
##
##  0.2237117268 -0.2045131845 -0.3222029247 -0.3947637304  0.4636740204
##
## -0.3696107206 -0.1013675255  0.3683324659  0.3499756776 -0.0468308379
##
## -0.4428853542  0.0698668692 -0.6297310906 -0.5591239314  0.3951686043
##
##  0.1017085242  0.1877979361  0.4507281325  0.3190614399 -0.2105548628

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```

##
## -0.4942476180 -0.2976999415 0.3324771346 0.5195628709 0.0533513077
##
## 0.6033139326 0.5851295150 0.3033728230 -0.0285934156 -0.2668013056
##
## -0.4678684308 -0.3464149059 0.0557470291 0.3508362400 -0.0008484836
##
## -0.2963784535 0.6466453789 0.1499377241 0.0831143061 0.3468237735
##
## 0.1459646234 -0.2266481712 -0.0387013436 -0.4990154605 -0.2537381470
##
## 0.0429032872 -0.3487910837 -0.2323570181 0.4060410892 0.6022845437
##
## -0.1019790702 -0.5135477906 0.0338014572 0.8767674109 -1.0672341149
##
## -0.3931866539 -0.3289142386 -0.2812032082 0.2792910810 0.5937132602
##
## 1.1714163539 0.3342249071 -0.3021481585 -0.4026585003 -0.2792642476
##
## -0.0603022430 -0.8056417979 -0.2576700546 -0.1987091639 -0.1775600752
##
## -0.2802336419 0.5728568120 -0.1451190740 0.2831002234 0.5740088759
##
## -0.2090245660 -0.7040987363 -0.0608209852 -0.1156175924 -0.2960377033
##
## 0.3288622718 -0.6526200907 -0.7183744702 -0.4752536340 -0.1202356700
##
## -0.2937228195 -0.5293435673 -0.6938534127 -0.0648877567 0.1799515881
##
## -0.1648395110 -0.7372145838 -0.3715864448 -0.1053256535 -0.0457038075
##
## -0.6666360030 -0.8677144022 -0.3238450027 0.5051663639 0.7102817804
##
## 0.7470401679 -0.3177239997 -0.0170807121 0.0498891256 0.2063142075
##
## -0.0217091707 0.0554335422 -0.1783392482 0.2811399711 0.2475873318
##
## -0.3601815720 -0.3680685063 -0.2245575143 0.4476849571 0.5082937461
##
## -0.8656708571 -0.7840635699 -0.3056190140 -0.2706422140 -0.4536910420
##
## 0.0325294235 -0.1430443036 0.5786403084 -0.1782633827 -1.1138162210
##
## -1.0952564678 -0.7471170919 -1.3021646212 -0.6169519169 0.2742568579
##
## 0.5302929476 -0.3653294917 -0.5619801519 -0.0136346098 0.0147337436
##
## -0.0823543835 -0.1328180946 -0.0671682418 0.3632618615 0.3269219915
##
## -0.1585079332 -0.2840257497 -0.4887579248 -0.1731724770 0.5452187281
##
## -0.3748231058 0.2780002813 0.3716173879 0.2587205970 0.1582423785
##
## -0.6927079364 -0.3383472218 -0.0343832045 -0.2280548862 -0.1154308276

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##
## -0.3191444900  0.2903348649 -0.6828716743 -1.2348330044 -1.3121718373
##
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##
## -0.0192527469 -1.2625380982 -0.7047248491 -0.0447255824  0.1404942102
##
## -0.0550038396  0.1042914099  0.2368610770 -0.5026420696 -0.4322574246
##
## -0.2878635163  0.2105459709 -0.1746168091 -0.5835469512 -0.5923589228
##
## -0.2097717812 -0.7110260219 -0.6569907376 -0.3924589994  0.0296064015
##
## -1.1509955731 -0.8106906153 -0.3724707928 -1.0614954918 -1.1230332729
##
## -1.0001335089 -0.1326695352 -0.6116136135 -0.7267429586 -0.4369481460
##
## -0.1982591393  0.3939324657 -1.5302914117 -0.7989848689 -0.1673515368
##
##  0.4021808566  0.4751811346  1.1592275325  0.6246129044 -0.5273537098
##
## -0.9479050933 -0.8513041995 -0.2060084715 -0.2315713448 -0.7534642425
##
## -0.7641808756 -0.3941285277 -0.3983940922 -1.4858290132 -1.2992781443
##
## -0.6245174116 -0.7659666323 -0.4403792964 -0.2349635602 -0.3504719955
##
## -0.0492401193  0.4382078320  0.4967031858 -1.2415273512 -0.1055271634
##
##  0.0378123646  0.4363677947  0.2770037143  0.2286658693  0.5467620164
##
## -0.2105330913  0.6229375683  0.4431582893 -0.4480148982 -0.4622199917
##
## -0.3525097113 -0.0376020712 -0.1204923342 -1.5552480602 -2.0953963389
##
##  0.0346919698 -0.7085419707 -0.4404662861 -0.5268545918 -0.7008149106
##
## -0.1252982147 -0.2495355110 -0.2573063664  0.1783680223 -0.1041928724
##
##  0.8332071786  0.5228837260  0.6307607145  0.6284699258  0.8537433572
##
##  1.3134416542 -0.5120262459 -0.1130913087 -0.0213030050 -0.2999952370
##
## -0.3646005817 -0.3213081242 -0.2407936693 -0.1169401860 -0.2707938105
##
## -0.3341627527 -0.3575969302 -0.3763039371 -0.6100911756 -0.5271983160
##
## -0.2128562322 -0.0425886063 -0.3380238438 -0.8713377337 -1.0261519797
##
## -0.7757112281 -0.2230877668  0.2160755337  0.4589337816  0.0575266729
##
##  0.3091549691  0.7134005271  0.0602063652  0.0754401464 -0.1684984082
##
## -0.1631276906 -0.5496614450 -0.8107959658 -0.6814262669  0.4986188532

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##
## -0.0273008384  0.6694146124  1.7733794321  2.0186163168 -0.3176690946
##
## -0.4328055317 -0.0288091986 -0.1268013073 -0.0877482591 -0.0827128644
##
## -0.5523800393 -0.5658941360  0.5526223795  0.1900406434  0.2002676125
##
##  0.1632656668  0.7983973335  1.1772945138  1.4096832718  1.4107419470
##
##  1.1987404461  0.3045724989 -0.0582769692 -0.0788997041 -0.0487744818
##
##  0.3021065079  0.5223792566  1.2076868216  2.7086975261  0.0588674372
##
##  0.2063409766  0.1487196425  0.3604531621  0.8707032659  0.4626258184
##
##  1.0790448210  0.4007176716  0.3014125169  0.6116249688  0.7358365491
##
##  1.2042130050  1.1217782204  0.6176384347  0.4768870310  0.8839782755
##
##  1.4270813004  1.0161597975  0.6617150228  0.7419865706  0.5621920230
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##  0.3145876088  0.0587458692  0.7578530858  1.6544441372  2.4832125472
##
##  0.3617696178  0.1829458536  0.9075659097  0.7032229290  0.4197847302
##
##  0.5303738752  0.5212387317  0.6289711682  1.0003151257  0.4650762346
##
##  0.9006814772  0.8649667750  0.7185150932  1.3799295883  0.9717547911
##
##  0.7711155500  0.7717627012  1.1986218188  0.2351604448  0.7270297093
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##  0.5304645562  1.6096885251  0.7517424291  1.3719471798  1.8760214182
##
##  2.8645523270  1.3527177602  0.9635000916 -0.9458327374 -0.4136578047
##
##  0.1587990910  0.2508560881  0.6011093330  0.4211791877  1.0693219233
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## -0.0377458519  0.5961600383  1.0103366309  0.6963944169  0.1580225868
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##  0.0901496917  0.5499503511  2.1517544012  2.3315311785  2.2585041326
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##  0.2553623555  0.4362281308  1.7974538555  0.8270149150 -1.1908234261
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## -0.1054641703  0.7521962807 -0.3906421382  0.0794646429  0.8747930681
##
##  0.7494744761  0.6654278208  0.8241474557  1.3562877649  0.9890800052
##
##  0.9549284174  0.7694969108  0.2220238037  0.0019205550  0.0839149016
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## -0.2787728285  0.6754778655  0.5776353798  0.8082885755  0.5079561354
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##  1.0029277746  0.8374485396 -0.0686085133 -0.2301863835  0.5455346504

```

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##
## 0.3236738264 0.2122386348 0.8016748516 0.8161511064 0.1519837814
##
## 0.4800137090 0.6956951859 0.1735793052 0.1255857005 0.1121786795
##
## -0.4258525341 0.8386662194 1.0735029902 1.1038922580 1.1908084527
##
## -0.2352338832 -0.4034176342 -0.3994018859 -0.5090188269 -0.1251598217
##
## -0.0853775536 0.4115617313 0.4992919269 0.3373963548 0.3197252527
##
## -0.3733595775 -0.2346622363 -0.4705671669 0.3807192795 0.8796458698
##
## 0.8217399194 1.1919303703 0.7150845590 -0.3446580723 -0.5240110574
##
## -0.3194920052 -0.2681884602 -0.1739422756 0.5211164918 0.4094538332
##
## -0.3358754846 -0.3226155791 -0.8247313968 -0.0229728718 -0.1771977218
##
## -0.0133365974 -0.2475634639 -0.3896037085 -0.2433570353 0.4622233184
##
## 0.4737290376 1.3248300445 0.1273721943 -0.3240124460 -0.0813560606
##
## 0.1347822978 -0.0044958382 0.3619685565 0.6634906159 -0.6011747546
##
## -0.1401446557 -0.7370222116 -1.2072562982 -0.5917066931 -0.4649459715
##
## -0.5733837461 0.1235656414 0.2068110884 -0.7736512155 0.8560618153
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## 1.9027738259 2.8463194275 -0.0469762676 -0.3486172508 -0.0821988078
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## 0.2229828305 0.2145707493 0.3374713623 0.3116016318 -0.0836315373
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## -0.2304914206 0.8709969483 1.2662184700 -0.1428982413 -0.6510651577
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## -0.9708156902 0.9782205268 1.8789294661 0.5673964942 1.3526720973
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## 3.2136194991 -0.1345259902 -0.2057734533 -0.4314730920 -0.5412984814
##
## -0.4050444361 -0.0233297278 0.3990524699 -0.2278628587 -0.0836997667
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##
## -0.4341185195 -0.5185278385 0.3900534203 0.8965086412 1.1456287794
##
## 0.8051341181 0.6887568809 0.3152125544 0.2241851912 -0.1093704922
##
## -0.4176284194 -0.5236684467 -0.4927196516 -0.4361875705 0.0523110396
##
## -0.0222473783 -0.1028475695 -0.2477082866 -0.4627323631 -0.5081000325
##
## -0.3103896838 0.0871867209 0.0945752509 0.0111297700 0.0558758807
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## 0.1308923606 0.4265836315 1.3457494215 1.2175197800 0.3267235191

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##
## 0.2674202804 0.2416520766 0.6347199566 0.6751935459 0.4125011415
##
## 0.0773865478 -0.2035680598 0.1491604925 0.6531174739 0.0434076671
##
## -0.2823722661 -0.4118278248 -0.4522153486 -0.4673328696 -0.6164039358
##
## -0.1395172440 -0.0518042994 -0.2925388561 0.5843376656 0.8212975820
##
## 1.0723248824 1.0986413271 0.6279603476 0.4990174747 0.2130586951
##
## 0.1094078893 0.0568067527 -0.1921951829 -0.5872783003 -0.3710941014
##
## -0.1637554347 0.4260439430 0.9618618831 0.8072249938 0.3600868502
##
## -0.3600668048 -0.4073131081 -0.2139894513 -0.2231968705 -0.5225644253
##
## 0.0082043128 -0.3072586520 -0.6272842053 -0.9639093067 -0.9110550638
##
## -0.5140106954 -0.1411096098 0.2140511820 0.5094950526 0.5755873401
##
## 0.4191427254 0.8040676414 0.1908206677 0.2231778421 -0.0966379084
##
## -0.1235404263 -0.4775540050 -0.8462588898 -0.3136858654 -0.3082556485
##
## 0.2514150415 0.5576387449 0.5582251173 0.4520579595 0.4378372543
##
## -0.1598993728 -0.3116246795 -0.2217544321 -0.2587168261 -0.7398297442
##
## -0.0576059974 -0.3259158763 -0.3657411297 0.2088061559 0.8083519314
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## 0.0941403219 -0.1131321935 -0.2577299328 -0.2516653190 0.2637134642
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## 0.5508053852 -0.1253893174 0.7052420102 0.1933475027 0.2309035366
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## 0.1268192445 -0.0260763456 0.0344029157 0.0227811762 0.0170246707
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## -0.0936676934 -0.1137547416 -0.1255486178 -0.3503997752 -0.2318635529
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## -0.2568099695 -0.6924135067 -1.0840560489 -1.0010519957 -0.5453276181
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## -0.5345074493 0.0136386503 0.2230929345 0.1042586528 0.5661139722
##
## 0.4488398588 0.3360006265 -0.0768532571 0.1823712938 0.6965572346
##
## 0.1605779714 0.1304355808 -0.0268033266 -0.2247238032 0.1094387682
##
## -0.0995438909 0.0753158914 0.1540936864 -0.2030137657 -0.8736230210
##
## -0.1892224539 0.1056927178 -0.6481817637 -1.2375770008 -0.6846610176
##
## -1.0169387592 -0.5373933084 -0.0797806282 0.0254807975 -0.2323280172
##
## -0.1467227093 -0.1574570597 0.5133317382 0.3456660395 0.3936250248

```



```

##
## 0.9343647653 0.3862803302 0.0283611961 0.6059622217 -0.0281129833
##
## 0.1087627427 0.2385350987 0.0189976448 -0.3395142734 0.3260248141
##
## 0.0662228549 -0.9292835853 -1.4225945611 -0.6242682499 0.6317989562
##
## 0.5419840720 0.2990210119 0.0559641574 -0.1330698801 -0.3127931749
##
## -0.7311427894 0.4037172818 -0.2769292372 0.9614037922 0.5694878516
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## 1.4391500262 1.3719444061 0.5707074015 0.2723273872 0.7520050654
##
## 0.7298679172 -0.4641799720 -0.4795331141 0.0096999878 0.3964258376
##
## 0.6500858712 0.4979546845 0.7812793219 0.5307895165 0.4747923801
##
## 0.5257763978 0.0505594376 -0.1310650307 -0.1332224540 0.7919281712
##
## 0.2152521565 -0.2624856337 -0.1448978602 0.2432200570 0.5656032521
##
## 1.3026725022 0.7360128148 0.5561856735 0.9687226436 0.8327193923
##
## 0.9690567035 1.4826915945 0.6676586194 0.9597536201 0.7758154437
##
## 0.9018665521 0.9821996278 0.9184686509 0.8509690789 1.3182638444
##
## 2.4097695277 2.4483377778 0.5505607673 1.3840132838 0.8036021916
##
## 0.6407608451 0.7680473294 1.3478161907 2.5603268431 1.2155983036
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## 1.7211479046 2.1013539743 3.7727096358 4.7033654345 3.2675765675
##
## 2.6284214568 1.9925809626 1.7130290261 1.0953196837 1.3767820435
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## 0.6979493004 0.8463185918 0.8116900856 0.9413965892 1.3941144080
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## 1.1380997131 1.4669569641 1.3732728578 1.2022668885 1.9829043558
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## 1.1867095224 1.9170394724 1.5038160022 3.2479369654 1.7944042283
##
## 1.3096336103 1.4405977262 1.0075890958 1.2600774777 0.9415601167
##
## 0.6773137493 0.8020085251 1.3307981847 1.8538531613 1.4457463976
##
## 0.6462316156 0.3434031322 0.7997653382 0.4987973696 0.4135587332
##
## 1.6476273024 3.1479874185 2.3858603323 0.9166117212 0.9580786370
##
## 1.2301551936 1.4087296531 1.7405295980 2.4963816715 1.9469343250
##
## 1.1348736413 0.9631231113 0.9741470800 0.9154035067 1.1419433730

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```

##
## 0.7537712490 0.8441372879 1.1288832598 1.4799370337 2.3305046413
##
## 3.0478437017 3.0094822748 2.2950472629 0.8548445964 0.6705423365
##
## 0.7745314529 0.8091547846 1.2422561056 1.6510726994 1.0617165801
##
## 1.0480581292 1.4496625120 1.5916914535 1.5765425111 0.7456635615
##
## 3.3304419459 1.4032437227 0.0127513631 0.4040110796 0.7014515712
##
## 0.4224660210 0.5272385334 0.1929252716 0.6322834698 1.1679179903
##
## 1.4368583876 1.7455956716 2.3578043846 3.2894298927 3.0396905397
##
## 1.4506077287 0.6358947240 0.4796543369 0.2678880075 0.4546707108
##
## 0.7923952945 0.6831696705 1.0241275698 1.0446511798 0.8035784918
##
## 1.0620342805 1.3289747306 0.6578104326 0.7168335160 1.5174271534
##
## 2.3765229997 0.7021226422 -0.7570205592 -0.0789677171 -0.1388309221
##
## 0.6554998493 1.2611921321 1.4084826025 1.2886321055 1.2053948303
##
## 1.9637938314 1.9745393161 1.0905295577 0.6734152173 1.0080168354
##
## 0.0327456457 -0.2703831026 0.4278048770 -0.1111120456 -1.0791445670
##
## 0.1674274804 2.8685214516 5.1826692127 0.6074518918 0.9211836120
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## 1.2756011463 1.2627125489 0.1311278001 -1.2150434159 0.2757835687
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## 0.9188015570 1.3565413957 1.5030903870 1.3568867409 0.7800829283
##
## 0.6764273323 0.1145228591 -0.3671524713 -0.3320321969 0.7282694263
##
## 0.0858003310 -0.0055625670 1.7155197581 0.3245039518 0.5087450825
##
## 2.7484434323 4.3257343434 3.4618373932 0.0051734660 0.1545304486
##
## 0.5170638049 0.8458211507 0.7675305040 0.1481503211 0.3360220190
##
## -0.0131559678 0.8007551239 1.1279988595 1.2300308764 1.2159802773
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## 0.9955165830 1.3735574743 1.2293570026 0.5508292811 0.0859514212
##
## 0.6022245004 0.4319606008 -0.8012768266 0.8992534880 0.9502264408
##
## 1.6142035933 1.6837883509 0.9939203888 0.5441827262 0.6430939107
##
## 0.1996010149 0.0856875779 1.0601894269 1.6475788230 0.1919509009
##
## -0.0296724161 -0.1230570689 0.5650399778 0.9486441797 1.3023817849

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##
## 1.5537446892 1.6188436269 0.6487861550 0.7678497320 0.8395713842
##
## 0.4771140678 0.1998446388 0.3366596448 0.1187349512 -0.0924363114
##
## 0.8425107432 0.7460110138 0.2604770891 -0.5270010063 -0.7164145845
##
## 1.6786553090 2.0796523275 2.6520812205 1.3079148914 0.9272847421
##
## 0.9282595431 0.1296389555 0.0563499440 -0.0950536204 0.1398994544
##
## 0.6745314970 0.6365400126 1.5179561839 2.5324519412 2.5143870847
##
## 0.8168276682 0.6429566666 0.9602002066 0.6358704489 0.1250572043
##
## 0.6706715734 0.6609534055 0.0604109231 -0.3106792613 0.0026214920
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## 1.2400699014 1.1259242048 0.5447157462 0.5707344302 1.5239076427
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## 1.8521013753 2.3405660678 2.1879455887 1.1338728637 0.4857401663
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## 0.0280765095 0.0007008772 -0.1775299823 -0.1608731246 0.2049022803
##
## 0.6650868184 0.2439510727 1.2767631162 2.9876159796 3.4497974224
##
## 1.8781588391 0.8423372950 0.2168010565 0.3702848098 0.3698395951
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## 0.5940113553 1.2969658927 0.5822536727 -0.2033874809 0.1937063551
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## 0.0555782408 0.6046017182 0.6685733953 0.7540553839 0.8766230285
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## 0.0824984149 0.8856470684 1.2527473750 -0.1132522386 -0.0743599641
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## 0.2588793713 -0.0811333732 0.9166357152 1.1292547977 0.8828919398
##
## 0.6062189812 0.5570498965 -0.2252685781 0.7022534612 2.4802483242
##
## 3.0494903100 1.8743760558 1.4183301644 0.3547365412 -0.1202239782
##
## 0.1842811270 0.9353435598 1.8133049165 0.9684278927 -0.7698244678
##
## 0.8015558836 0.6151932695 0.5205835104 1.0392193823 1.3056366778
##
## 0.9689333074 -1.1622381198 -0.7091524041 0.0652865633 0.1993520015
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## 0.2332704192 0.0246237069 0.3177466545 0.3998152548 1.1909532548
##
## 1.0637797731 0.7147282328 0.6718148791 0.8363720512 -0.0036134524
##
## 0.3268730975 2.0976580970 2.6861439569 1.6646144444 1.0871307834
##
## 0.3784393153 0.0369491110 0.4276766055 1.2135215486 1.5992084030
##
## 0.5736391776 -0.6320884345 0.4991922590 0.6564263236 0.7038369489

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##
## 1.4975659995 1.5833390469 0.4243144290 -0.3023199286 0.2134537578
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## 0.7606468108 0.7121506485 0.6126487351 0.7094047761 0.8271983999
##
## 0.1514939492 0.0087376729 1.0117973777 0.8219339928 0.8048305749
##
## 1.0453926848 1.3338015744 1.1429482210 1.0629563115 2.1232071662
##
## 1.2615999558 0.6150921728 0.6416162760 0.6559950198 0.8637194418
##
## 0.9363379011 0.7301343129 0.3264438383 -0.3469929087 0.7544912869
##
## 0.7556151694 1.0865504036 0.7735917998 -0.1923700139 -0.2083153145
##
## -0.0055374577 0.4300780611 0.8678945803 0.8164912229 0.6201730003
##
## 0.7622237763 0.7854543774 0.1946988385 0.8043784254 0.8775045564
##
## 1.7441361723 1.9067028038 1.6242960325 1.3690785960 0.9314452079
##
## 1.4131849440 1.1855350907 0.8942472724 0.8678313212 1.1750350917
##
## 0.6609917239 0.2559894079 0.4994602111 0.4186812371 -0.0135985720
##
## -0.1852097177 0.7255671790 0.3766186707 0.3102361837 -0.6900257868
##
## 0.0192336280 0.8989174209 0.2522981992 0.4208729078 0.4002868737
##
## 0.2682379456 0.2653960862 0.4096215661 0.1129123000 0.8072577607
##
## 1.1530520420 0.7491564544 0.3251565250 0.4040054904 0.7759745979
##
## 0.6621883187 0.9355344587 0.7696554953 0.8711808325 1.0101669231
##
## 0.3384437547 -0.9458735090 0.4047755196 0.0692415814 -0.3641582949
##
## -0.3171487716 -0.0054624973 -0.5510748317 -0.4501355264 0.0906654091
##
## 0.6163785616 1.5300739131 0.1779011387 0.4224501434 -0.0520298712
##
## -0.3137310610 -0.2646164542 -0.0089002250 0.1424182339 -0.2589368273
##
## 0.3191654627 1.0638065166 -0.2842551089 -0.5655464668 -0.3924601688
##
## 0.2455488115 0.9613443959 1.0386954457 0.4109468048 -0.3436623586
##
## -0.5338902259 -0.2993179254 0.7476383095 -0.4440487968 -0.9964462350
##
## -0.6185726457 -0.0893004381 -0.6339479356 0.2459234625 1.3516182954
##
## 0.8205568347 1.4706604682 2.6731687462 -0.5663073392 1.9092933261
##
## 2.9522970928 2.1008179161 0.9571116297 0.3277072513 0.2481052080

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##
## -0.5505432931 -0.3580866795 -0.2590931501 0.0842528564 0.7172180356
##
## -0.3307093092 -0.3850335917 0.2437509046 0.3318053867 -0.4664928123
##
## -0.5212743046 -0.3124360971 0.2069839592 0.8358651418 1.2336558028
##
## 0.8453388577 0.6819235085 1.5359093761 1.6917540587 2.3150002794
##
## 3.2425871986 2.4525683711 1.4374235970 0.5980539052 -0.5214973618
##
## -0.3187454147 0.8624363013 2.4183661925 1.5537273256 0.2094466328
##
## -0.3262098494 -0.2038923578 -0.2513058912 -0.2736903853 0.2762486876
##
## 0.4716516021 0.3866571581 0.2464338840 0.4361021184 -0.9157584116
##
## -0.5150288076 0.7004462216 2.3799871859 1.9920893186 0.9638414001
##
## 1.6954745260 1.8022368838 1.6498815589 1.1381110303 0.4911915171
##
## -0.0450839618 0.8112115006 -0.1925941769 -0.8308955819 -0.0008164584
##
## 1.4962042422 3.1443236771 2.1589849839 0.6575277826 -0.1237470639
##
## -0.4014611078 -0.3453622477 0.4694409222 0.4235601384 0.6182353723
##
## 0.3064117088 -0.0181228251 0.0803434346 0.3666655861 0.3322029164
##
## -0.2686627801 0.1590582721 1.6998952076 1.2043210255 0.3044886499
##
## 0.7598315350 1.4246096290 1.0998324682 0.9641884977 0.8554529739
##
## 0.1355841329 0.1472491368 -0.0372024592 -0.4948589175 -0.1274835227
##
## -0.0071882449 0.5245990447 0.6154018539 0.1971251551 0.0532042705
##
## 0.0705436165 0.3728159092 0.2519643854 0.6198329206 -0.0450678270
##
## -0.0439379136 0.5262344130 0.4840944521 0.0874259492 0.0915620944
##
## 0.0855206160 0.1904392868 0.5543655111 0.9174235553 0.5946435091
##
## 1.4764296274 0.7219584439 0.1084096628 0.2861548554 0.6462919450
##
## 0.4681903533 -0.2624635224 0.1864115843 0.3178909382 -0.0189876503
##
## -0.3159425150 0.7778606246 0.2642414221 -0.5986601991 -0.9137041116
##
## -0.6171020901 -0.3873712840 -0.2627026140 -0.2810840609 -0.9415459354
##
## 0.8871555755 0.2600095313 0.6261649216 0.6476140464 0.3151772967
##
## 0.6049465447 0.5789933387 0.4638332160 0.4623236081 0.1781228571

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##
## 0.5080145004 0.3524768962 -0.0183902002 0.3147081666 -0.0725073629
##
## 0.1820248633 0.6537752947 0.6024014426 0.2492530130 -0.1649027543
##
## -0.8613267991 -0.4298046339 -0.9542642981 -1.3641544602 -1.2544170930
##
## -1.1345933020 -1.4709818365 -0.2792930799 0.0494334047 0.4767259061
##
## 0.5350866912 0.2887690940 0.4418479449 0.3689353781 0.0933187405
##
## -0.0192723182 -0.0061381874 -1.3440520403 -0.4693086576 0.6860244031
##
## 0.7211208373 -0.1800801444 0.5330098157 0.5454037801 -0.1766032030
##
## 0.6901744806 1.1643690309 -0.1131098457 -0.0576767431 0.1060850081
##
## 0.7879243944 0.5115038149 -0.1548437760 0.1119109263 -0.3321803580
##
## -0.5466313823 -1.0661430137 -1.2639440487 -0.9262546270 -0.6467134513
##
## -0.4433748855 0.0267676082 0.2834259115 0.4065764072 0.6618223072
##
## 0.3628965012 -0.1089989882 -0.4673761566 -0.5178147754 -0.3819345869
##
## -0.7194237675 -0.7501493561 0.0901664532 0.4232196366 -0.0610132789
##
## -0.1867071558 -0.2242886542 -0.1060646127 0.2391960347 0.8201820967
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## 0.0936718108 -0.0025475046 -0.0942206023 -0.2550992376 -0.0183279554
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## -0.1344781319 -0.4410184553 0.2173187607 -0.3043902479 -0.5484457763
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## -0.3339778891 0.2382285361 0.1341695908 0.0783682913 0.1555626541
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## 0.2323986043 0.5269731105 0.6589610048 0.7573094930 0.2066303371
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## 0.1473843327 0.0462293088 -0.0882784520 -0.1694448925 -0.1848328030
##
## 0.0084271123 -0.7996422421 0.0389500126 -0.3357634570 -0.2713232939
##
## -0.2192199446 -0.1521024072 -0.1487111300 -0.1525126923 0.5344209878
##
## 0.1896939704 -0.2609545774 -0.2974176847 -0.4507599213 -0.0413624883
##
## -0.0926513865 -0.1805887382 0.0869937489 -0.6814482744 -0.9658850265
##
## -0.4133038711 0.7286706746 1.0230412559 0.7461746967 0.4952109499
##
## -0.0175997268 0.4412214122 0.7020891887 1.4179847800 1.7935066674
##
## -0.2136029433 0.1368002918 0.8550829405 0.3506907133 -0.0926502999
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## -0.0078507991 -0.0432675661 -0.4820999885 -0.4853451996 -0.0180009133

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##
## -0.6711596535 -0.9236294444 -0.5294545297 -0.2291319550 -0.1778424319
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## -0.0654313743 0.2238897945 0.0072638197 -0.0042430936 0.1748944395
##
## 0.1502577563 -0.1559941543 -0.4155079714 -0.0573505054 -0.2193153307
##
## -0.5888461558 -0.7960182807 -0.9064102718 -0.4481993125 0.2859457053
##
## 0.5762937713 0.5043862777 -0.2085234844 0.3181693427 -0.0597689535
##
## 0.5660876811 0.7629105759 0.5365447021 0.0275939164 0.4589037177
##
## -0.0317027638 -0.4688473283 -0.3256382367 -0.0763910189 -0.1782729755
##
## -0.5052447386 0.0966327846 -0.9801811789 -0.5435365115 -0.4838157119
##
## -0.3317213174 -0.0863364333 -0.2497033706 -0.8112616243 -0.7930304696
##
## -0.2641682868 0.0712188893 -0.1256120572 -0.5172152712 -0.0725689488
##
## -0.6783327040 -0.6263262170 -1.2319339452 -0.8592847141 -0.4251885340
##
## -0.3361428559 -0.5933149680 -0.1087681234 -0.0351945732 0.1182825140
##
## 0.4797832497 0.2025941280 -0.4161654968 -0.4547580551 -0.4162602339
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## -0.3323611037 -0.3628175457 -0.1050794810 0.1881576552 0.0013340120
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## 0.4126432927 0.0199722775 0.2152798520 0.0445916943 -0.4498517624
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## -0.4234997969 -1.3989068972 -0.6201979802 0.0212186245 0.0857153387
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## 0.1109532039 0.1157275673 -0.2600214595 0.0314753465 -0.1811936789
##
## 0.0632497377 -1.1249616121 -0.3951489285 -0.0955202363 -0.0811605010
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## 0.5282657108 0.3461037783 0.5140036811 -0.3577076967 -1.4364533703
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## -0.8823871019 -0.6663418765 -0.6264882029 0.3455825757 0.8928656467
##
## -0.1914181844 -0.0982324257 0.8090413436 0.4303499243 0.2433514592
##
## 0.0226072405 -0.0082964143 0.2512566390 -0.5903393067 0.2893936783
##
## 0.0031592550 0.2163075161 0.5148983320 0.1464221878 0.1547248116
##
## -0.2042115734 0.1235504451 0.3980614509 -0.8773920291 -0.5185582825
##
## 0.3188716464 0.1204703748 0.4305685348 0.3221808662 0.4856971689
##
## 0.0294332874 -1.3133719320 -1.1627673924 -0.0964700166 -0.9103521262
##
## -0.6358650762 0.2010795325 -0.1416341674 -0.5333110738 0.1507196828

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##
## 0.6046669805 -0.1832434582 0.0685805493 0.3951868412 0.4103827503
##
## 0.4707964287 -0.6597546269 -0.4886268966 -0.2835600772 -0.1092783933
##
## -0.0854654006 -0.1237799772 0.3410181307 0.6301716163 0.4860596190
##
## 0.3439919411 0.2816530790 0.0439474858 -0.1407390976 -1.0441312535
##
## 0.1002919416 -0.2598116717 -0.5614932023 -0.0564278104 0.2906264168
##
## -0.8781804400 -0.0911400038 0.5413486674 0.0924449223 0.7380823985
##
## -0.0362680786 -0.3709625331 -0.3615189122 0.1103045098 -0.4143974432
##
## 0.2617970253 0.2014349732 0.1582546621 0.7259709458 1.2446836473
##
## 0.6734011464 0.0979621971 -0.0877819957 0.3791187366 -0.4894251359
##
## -0.5022579156 -0.2237061071 -0.2329718092 0.0228438019 0.4340710452
##
## 0.3981096414 -0.6603179212 0.0607156689 0.5795249186 0.3445412574
##
## -0.0464612470 0.1290847786 0.4539261712 -0.0609785736 -0.2574613416
##
## -0.2149400062 0.1316844928 0.2247289802 0.2190063913 -0.5381330105
##
## -0.6146347860 0.5598123082 -0.1021955086 0.0273285616 -0.1616327638
##
## -0.0420521680 -0.0375401441 -0.1530764251 -0.5152160291 -0.5622522022
##
## -0.1041786820 0.3760791910 -0.2784598940 0.3331205598 0.6158336379
##
## 0.6179036462 0.5230492198 1.8220420550 0.9642741013 -0.2830090495
##
## -0.2525118067 -0.2110051862 -0.2875077214 -0.3957928250 0.6452706669
##
## -0.1812347052 -0.4640546908 -0.1990490104 -0.3979770407 -0.9342796349
##
## -0.3338022515 -0.2721686231 -0.3971053661 -0.0301011137 0.1503495084
##
## -0.4658942770 -0.8832714096 -0.7462662032 -0.3105240381 -0.3607730987
##
## 0.0320877965 0.2310680087 0.0907607307 0.1150767681 1.7783921470
##
## 1.8636681668 0.8017565109 0.3781388900 -0.5994418749 -0.3057201552
##
## -0.3619494017 -0.8119398379 1.0185637580 0.0658887494 1.1346006313
##
## 2.4542859617 3.1766334152 -0.3826798163 -0.4508144773 0.0976604332
##
## -0.3172596414 -0.4352615595 0.6357492516 0.1785297642 -0.3792569104
##
## -0.8360157258 -0.8495782807 -0.3537783833 -0.3101111927 -0.6893311005

```



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##
## -1.1237985146 -0.3945782635 0.8180948739 1.3602799672 1.3158511122
##
## 1.2172797345 1.3457838514 0.6664047526 0.5202051841 0.2690355174
##
## -0.2649797783 -0.5020016932 -0.2366606323 -0.3310149975 -1.1009432333
##
## -1.0001994308 -0.1318931857 0.6934551080 1.3869592330 1.7239623110
##
## 0.9148200841 0.5425368179 1.0345144107 0.1525941957 -0.8250859134
##
## 0.2909234205 0.4031564396 0.1123319458 -0.2175153053 -0.1785733845
##
## 0.1633203104 0.1462094018 -0.5222839916 -0.4006533910 0.7219877365
##
## 0.6787716801 0.6486536746 0.7028241605 0.1999435928 0.6990690955
##
## 0.6478186026 0.2168153761 0.1687485144 0.7435474146 0.1505712542
##
## -0.3680132072 -0.2487958790 -0.0247147380 0.8539323744 0.7157228561
##
## 0.4483274024 1.0731429085 0.9769646707 0.6771111372 -0.1193854991
##
## -0.4387633581 0.5609939476 0.3976432963 -0.0248893140 0.1961141130
##
## 0.4162732877 0.2775804676 0.2742217992 0.2613355573 0.5127365328
##
## 0.6101592668 0.5476466843 0.3666609120 0.3258445823 0.7362121350
##
## 0.6753715108 0.1644304010 -0.0537525414 0.4610529523 -0.0115501542
##
## 0.7097416371 0.6313006783 0.9073811180 1.4491385936 1.3997241392
##
## 0.4339634192 0.4205866349 -0.2119280454 0.2658282440 0.4938647507
##
## -0.3496816128 -0.0780363492 0.2336825924 0.2124751880 -0.1639889737
##
## 0.2667643976 0.3824722891 -0.0437876811 0.2590740982 0.4577785235
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## 0.9731035742 1.0622267006 0.5018099622 0.5160380338 0.7871315522
##
## 0.7663538288 0.5910103496 0.5206980611 0.6626369921 0.1790736366
##
## 0.0527529480 0.4627672534 0.8623350428 0.8843673662 2.0374593322
##
## 1.9593506489 0.3466680317 0.0332730980 1.1895409118 1.1492522960
##
## 0.8615927908 -0.0947290949 0.0847726873 0.2454701992 -0.2137012546
##
## -0.1653256573 0.3435243165 0.3617825510 -0.2102111184 0.3885545713
##
## 0.9450929641 1.5817001548 1.4249810421 0.7904404407 0.5364223029
##
## 0.5527768519 0.9091162302 0.4880978543 -0.0196821930 0.3207702646

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```

##
## 1.2039810934 0.8237539908 0.9085827495 0.8927036853 0.4115400518
##
## 0.1160304430 0.0332835294 0.1652220813 -0.2585460430 -0.1439392725
##
## 0.3099481332 0.3915443950 0.0430859700 0.4082711823 -0.7441806437
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## -0.4325684749 0.8103900858 0.8513514291 0.6918660525 0.5619471993
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## 0.3709596842 0.0205848474 -0.0369680331 -0.4372987235 -0.2400146467
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## -0.0171197792 -0.1516392027 0.0300877122 -0.4067898366 -0.0505265819
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## 0.0985689262 -0.4601506663 -0.3726822710 0.9096084347 0.7287867444
##
## 0.7613463645 0.9546775164 0.5401599173 0.4120753996 -0.3539261931
##
## -0.4438895454 0.9160658462 1.4538370500 -0.6638668538 -0.8938951885
##
## 0.1090842299 0.1226892132 0.0683516952 -0.1836900082 0.5594965334
##
## 0.2024662355 0.8780378110 1.4074896473 0.6411284963 0.8586172661
##
## 0.3286692970 0.2462216047 1.0689380338 1.3479919104 0.0095854781
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## -0.2305729616 0.0857501205 0.4297343855 0.0863967660 -0.1080969267
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## -0.4033116251 0.1631257753 0.4347311074 0.1016676188 0.9395198183
##
## 0.8527343693 -0.0982668853 -0.3012798233 0.4877899767 0.6123113566
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##
## -0.1358974509 -0.133668273 0.4294344893 0.7174133052 0.0353661660
##
## -0.2802609284 -0.7536199190 -0.0545242362 0.5144483153 1.0565961169
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##
## 0.1614413299 -0.3413877813 -0.4842483940 0.1575749146 0.9455755547
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## 0.2932995905 -0.1648115932 -0.0754925301 -0.0607537823 -0.3610760636
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## -0.2372720447 -0.0692624324 -0.3979806941 -0.5993228150 0.4859416428
##
## 0.4324940339 0.8604934505 1.3561303219 0.6714332306 0.5468161310
##
## 0.1963835919 0.0328284442 -0.3019876379 -0.2734524609 0.0981277487
##
## 0.1857945871 -0.4947565192 -0.4167575413 0.8129868491 0.4118377606
##
## 0.3731599258 0.3519741513 -0.0715358410 -0.1736072872 0.1308445403
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## -0.0260159114 0.0328857982 0.4470678533 0.2797301041 0.7328282885

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##
## 0.9054315431 0.8237536556 1.2822791716 1.1045588346 -0.1139677024
##
## 0.5739936106 0.9674875931 1.0041709257 1.5942915487 1.0944045901
##
## 0.0179856009 -0.7005269492 -0.7907862309 0.7638222682 0.1976650399
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## 0.4097265254 0.3522193675 -0.0440495088 -0.5788586349 -0.8159987788
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## -0.5567231201 -0.1757867322 0.2570056685 0.6388718915 0.1512089357
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## 0.4198554905 0.2520275888 0.3398568384 1.1285368668 1.7820419049
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## 1.3777658795 1.3170461790 1.7990282374 0.3882755684 0.4195634947
##
## 0.0446348507 -0.0161767146 0.0176313822 -0.6120320644 -0.3811930575
##
## 0.0425805751 0.1889906248 0.8019361708 0.5911654006 0.1486631567
##
## -0.3660688407 -0.7917922222 -1.1481453497 -0.9530978886 -0.3467995120
##
## -0.1041011268 -0.0194303046 -0.2160200587 -0.4166133829 -0.3783297053
##
## -0.0321733253 0.0661937719 0.1501624869 0.9680864157 1.2903525979
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## 0.3092277769 -0.0877534887 -0.2604504184 -0.4109522048 -0.4765001306
##
## -0.1788822406 -0.2998542154 -0.2149862533 -0.1970974397 -0.1783242199
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## -1.3700626069 -0.6279103039 -0.2685318826 -0.2030603028 -0.0210123111
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## -0.1810113808 0.0527316765 0.6506649565 0.8878746570 0.3521366275
##
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## -0.6509645603 -0.5266108688 -0.6762168250 -0.9908743360 -1.1576567964
##
## -0.9249639714 -0.5049132404 0.0408567053 0.1423041849 -0.1504272467
##
## 0.2400971008 0.2672775250 0.4311458130 0.3661093337 0.7975047664
##
## 1.2899898606 0.6619395505 0.4881188902 0.3349861291 0.1690132180
##
## -0.6319188247 -0.3973023313 0.0000232756 -0.3727472636 -1.4911161432
##
## -0.9517178835 -0.8264780289 -0.9738807690 -1.0685922073 -0.8753843598
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## -1.2077685278 -0.4451965268 0.2092331910 0.3756493926 -0.1963502709

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##
## -0.7787123679 -0.2523229586 0.2805402062 0.1941392025 0.8992951483
##
## 0.2322697403 0.5617646127 0.1451987117 0.2671902736 -0.2373546365
##
## -0.1150772394 -0.4372194238 -1.2378306335 -0.7150984141 -0.7218574961
##
## -0.8469715738 -0.7807906231 -0.2854809962 1.0042696530 0.8304988756
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## 0.2271649472 -0.3024001301 -0.5280600050 -0.6674025454 -0.4617707569
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## -0.9753906716 -1.1304256171 0.4919854086 0.2425098435 1.0547436890
##
## 0.0504637801 -0.1335807859 -0.0895230819 -0.1582695575 -0.4877531227
##
## -0.5307242409 0.0752430155 0.3621723516 0.1634774008 -0.3686816976
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## -0.2719205050 0.2079455369 0.0958797919 0.1605435475 0.3721161521
##
## -0.2494169893 -1.9724053858 -1.0237885591 -0.6293637363 -0.1332119463
##
## -0.4439963131 -0.3656107653 -0.3429287426 -0.9441225333 -1.2357290486
##
## 1.4039968990 0.4873642578 -0.3127479601 0.4578479847 0.2259815276
##
## 0.4621239302 0.7174499642 0.8610737694 0.0249701067 -0.2945812476
##
## -0.3887753575 0.8863480414 0.6140518395 0.7326590542 1.4906520117
##
## 2.8858862789 0.4961736348 0.3257339284 0.6296710872 1.3941694883
##
## 2.7848460082 0.9691931479 1.0831503120 1.5240182226 3.9763780219
##
## 5.6703847468 3.3655513689 1.1085859218 1.3064270026 1.8963660471
##
## 0.1673914371 0.8841090435 0.8621967072 1.1109832924 1.8639881248
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## 1.2111630674 2.2830189409 2.4166184055 1.6445559814 2.0471119743
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## 0.7548245547 0.3874262026 2.7830471766 4.6828363294 2.3301522392
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## 0.3288552370 1.4610367224 1.7619587810 4.2852033444 2.4959537576
##
## 1.8329217476 1.7241276747 0.1818740168 0.9571984190 0.8826137143
##
## 1.0078293515 1.2146025366 1.4861510887 1.8460146843 2.5961512681
##
## 2.2333856029 1.1453681836 1.7227274006 0.6422571417 0.5550344148
##
## 1.5114723571 2.2435367495 1.0877806687 0.6714754753 -0.1611216547
##
## 0.3362931358 1.8368821052 1.2467456768 0.9172174584 1.0876594498
##
## 0.8899997931 -0.0486962862 0.4552595582 0.6898092643 2.0876102064

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```

##
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##
## 3.2462473737 1.3543417707 -0.0525246988 0.0238114204 0.3215651520
##
## 0.2657228596 0.4995503924 1.8153631103 0.9576518825 0.2806390023
##
## 1.2732113800 2.0298574091 1.0440007863 2.0778898355 0.5451903420
##
## -0.1550739443 0.1730934029 0.0859769129 -0.6734659723 -0.0615751232
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## 0.3979557189 1.2188717457 1.7077508917 1.4527946599 1.4077855872
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## 1.7821756911 2.4169724192 1.1301440058 -0.3196101037 -0.1646830114
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## 0.8539374886 0.9491786698 1.7597343141 1.1230169714 0.8350775239
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## 0.6736091584 0.1716282309 -0.2447369808 0.1245370901 -0.1431897754
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## 0.1203270799 0.1078364491 0.0306452725 0.2492262452 0.4969326307
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## 1.3574170814 1.9262003736 2.2060924043 0.2386798610 0.9303877572
##
## 1.5332643743 1.5563087922 0.5384747413 -0.4467313048 -0.1967667326
##
## 0.0670107028 0.2462153924 0.0905381498 0.7368197509 1.1460507722
##
## 1.4639195490 1.5905514688 0.9356776454 1.0111298722 0.8933526019
##
## 0.1472484251 -0.5514839490 0.2528219612 0.0220039520 -0.5113317932
##
## -0.0149401286 1.3035780861 1.2912096758 1.3518613052 2.0729372666
##
## 2.0121739888 0.0745040803 0.3006831597 0.5952016295 1.0965743612
##
## 1.3906044559 0.9678824551 -0.1514634908 -0.4878037131 0.2453499344
##
## 1.4433582139 1.5447426301 1.3614976084 1.1979105163 0.8984050263
##
## 0.9575566602 1.6076739589 1.4473522809 0.3139634050 -0.0395123355
##
## 0.5153261172 -0.4660429543 0.8353021667 2.2323918553 1.7618826628
##
## 1.3196107826 0.4600370827 -0.3486481764 0.1002368577 1.1199461775
##
## 0.8739546792 1.1019101298 1.8389769225 2.0458962436 0.1801866283

```

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##
## -0.1534183903  0.2728587806  0.8107325846  1.1929898027  1.2036931126
##
##  1.0730745315  0.8342333970 -0.4738758768 -0.5774953065  0.5778903697
##
##  0.7215905718  0.1366680999  0.3563476251 -0.1678755453  0.6827909419
##
##  0.6163550533  0.2497211243 -0.1669706026 -0.3289441846 -0.0755510322
##
##  0.0435967780  2.7200513160  1.9494007111  1.3623037423  1.7544854656
##
##  0.3217042827  0.1326176247  0.6440757088  0.8020328619  0.5617090072
##
##  1.0625199263  1.5162036439  1.1732402154 -1.0105757118 -1.0123493677
##
##  0.3061662557  0.4230486754 -0.0062146878  0.1463900916  0.2819891670
##
##  0.0654538009 -0.3626060238 -0.3173736854  0.2672141613  0.5995977033
##
##  0.7905560161  1.0015196597  1.0043929150 -0.8298782875 -0.7685286063
##
## -1.0507028733  0.2919018917  0.7823468405  0.8094155257  0.5726037653
##
##  0.3778643403  0.3114314322  0.3204996495  0.6700360871  1.0467475903
##
##  0.0368076281  0.5844759367  1.3201927367  1.3538267842  0.5472191001
##
##  0.1671104302  0.0723046457  0.0831715528  0.1685876026  0.4711088149
##
##  0.4377395868 -0.0507074477 -0.5855178784 -0.3814795195 -0.3270655770
##
##  0.4724494675  0.1293967351 -0.3486237857 -0.2496849672 -0.1140135022
##
## -0.4683569532 -0.4066728366 -0.9421419756 -0.2860699553  0.0112114153
##
##  0.2116861603  0.3652018120  0.6355568969  0.7203742200  0.5611462215
##
##  0.5180185149  1.0278583252  0.4603477200  0.8124885123  1.6051900495
##
##  1.7658626576  1.2540009188  1.0420991022 -0.1924533888 -0.1013960604
##
##  0.5749454440  1.2547682835  1.5367545100  0.7691391890 -0.3964483869
##
##  0.5701036477 -0.2759314289 -0.2590296276 -0.2716934792 -0.3208048074
##
## -0.5848928758 -0.6954474772 -0.2200536085 -0.0970458340 -0.5100255428
##
##  0.0445199748  0.0545519153  0.0336834456  1.2363864506  0.7097752087
##
##  0.1793399376  0.3516851613  1.0572352396  0.8077645227  0.8086537369
##
##  2.2556894245  2.5201610336  1.5393682884  0.9336043901 -0.2697085030
##
## -0.3104628493  0.0515382271  0.7484011724  1.3716201158  1.0736093799

```

```

##
## -0.2680746857  0.3767248201  0.2564481205  0.2468436308  0.3617808206
##
##  0.0506169045 -0.3372619409  0.1476255619  0.5227545015  0.3839135550
##
##  0.1411176041  0.7177510702  0.4809275704 -0.3252041435  0.4179156673
##
##  0.0231147504 -0.1158454926  0.3867489775  1.3610488135  1.6804675054
##
##  1.0312146177  3.2522721352  3.7129542676  1.7232537978  0.0460687673
##
##  0.0701171659  0.1712459013  0.0392801013  0.1061384043  0.3577069353
##
##  0.3842575313 -0.4691753802  0.3469791517  0.8713916038  0.6558585040
##
## -0.1622105602  0.0786510857 -0.1433579497 -0.0340680141 -0.2412047791
##
## -0.8868659854 -0.2569441577  0.1978937758  0.1584399807  0.1449668145
##
##  0.5273477861  0.6872817717  0.0290904640  0.3240445700 -0.2354465782
##
## -0.3956100818  0.0274505238  1.0172664577  1.9906216033  1.2971475235
##
##  0.8975366915 -0.1145703711  0.1794088582  0.1437216744  0.3651910185
##
## -0.0923461961 -0.4656250612 -0.6041079882 -0.5471429961 -0.4400325894
##
## -0.3685121394  0.2991681797  0.3498623743 -0.6238068226 -0.3296643419
##
## -0.1073565396  0.6416569614  1.2150691999 -0.1061662181 -0.6507289641
##
## -0.4605852263 -0.2780505806 -0.3885778361  0.0311963332  0.6467127330
##
##  0.3315681567  0.4171826308  0.1599487294 -0.4570507576 -0.6241243824
##
## -0.2929376339  0.3387767236  0.0714495448  1.0102328361 -0.0830543306
##
##  0.1218600219 -0.1741197133  0.7622898738 -0.3748128823 -0.6893053267
##
##  0.0887009234  0.6221956377 -0.3408382074 -0.3050622756 -0.0548036957
##
##  0.0058148442 -0.2537112505  0.3153352581  1.3691113408  2.1908371506
##
##  2.1028765083  0.1768268141  0.7142238788  0.3194189379  0.2603441299
##
##  0.1112366962 -0.2126954422  0.0180567775  0.5566836911  0.4181746041
##
##  0.2791817892 -0.7325199732 -0.2611128094  0.3084887260  0.5053833478
##
##  0.3310417333  0.8293821983 -0.3159051337 -0.1243611559  0.3054228302
##
##  0.5136034724 -0.2661596164 -0.4025584079  0.0036032886  0.2812134737
##
##  0.6511528248  0.4563485095  0.4558246951  0.7079117121  0.9267709728

```

```

##
## 0.9424473366 0.1040605614 0.7239320140 0.7558205035 0.9278572892
##
## 2.1432251281 1.9470244086 1.5491887755 0.9275591468 0.3133481662
##
## 0.2166484974 0.6929936700 0.0970537239 0.3398873227 0.8838097851
##
## 1.6963750505 0.3563977813 -0.2203876286 -0.1095210866 0.4168292464
##
## 0.3930422634 0.5077204809 0.0234813718 1.4527837779 1.4923048735
##
## 1.1615135402 0.8685298437 0.8159202784 0.5319701655 0.4270864558
##
## 2.8886343567 3.1978705209 2.5380510377 1.8545344516 1.2115283625
##
## 0.4697855585 -0.1542052482 0.2363480456 -0.4796472838 0.1629915331
##
## 1.6932661705 2.1130522076 0.3256995205 -0.0681538197 -0.0992367976
##
## -0.2055434458 0.3266173719 0.5495632797 0.3682369611 0.3862217511
##
## 0.6381514697 0.9471190866 0.2199073266 0.2512111251 2.8303167527
##
## 0.9368796745 0.7910343566 1.0060064941 1.2546724491 1.0889816198
##
## 0.5008488174 -0.0527388821 0.0075985779 -0.9158169780 0.0692301057
##
## 0.9367948883 0.1381464678 -0.5031390880 -0.0470989977 -0.0113727552
##
## 0.2973853058 0.2518939435 0.1534575273 0.2370049478 0.5443818755
##
## 0.7104649122 0.4979853406 0.7346362531 1.7145456379 0.5892125588
##
## 0.2937005069 1.0905862628 1.0080659126 0.6364574306 0.4097861392
##
## 0.2298477819 0.0895331598 0.4234863967 -0.6585430488 -0.3194165511
##
## -0.4914619039 -0.5323660546 -0.4702558611 -0.5760172818 -0.3558113986
##
## -0.1005234285 -0.0191004658 -0.0771303322 -0.0290501774 0.1002904123
##
## 0.2727253041 0.4908059902 0.6570892132 0.5748126931 0.5315427438
##
## 0.3547259304 0.9630765868 0.5513052119 0.1404317031 0.2667814456
##
## 0.7701800613 0.6177821771 -0.1018667446 0.4298823234 0.0491289735
##
## -0.2547618583 0.0372406571 -0.2897289783 -0.4604309765 -0.4297014475
##
## -0.4369092530 -0.5974322534 -0.2731296558 -0.0824207483 0.3294736135
##
## 0.4534614189 -0.3086722355 -0.2117760937 0.5274440164 0.7727659076
##
## 0.2364219557 -0.1548187357 -0.9803137239 -0.5964968803 -0.1419604101

```



```

##
## -0.1749235726 -0.0364011453 0.4564617968 1.5908822560 1.3876849840
##
## -0.3359746563 -2.3255154638 -3.0814588620 -2.1072359480 -0.1649659018
##
## -0.1220751090 -0.2956952392 -1.0879640727 -0.9865188519 -0.1387687027
##
## 0.5057828811 0.3664146693 -0.3612353900 -0.9856818841 0.3261499084
##
## 0.2972564520 0.2479105500 0.6645415736 0.9596170946 0.6949909822
##
## -0.3418627715 -0.2013071773 -0.1823724159 -0.2937997652 -0.2556812964
##
## 0.0937185400 0.0336642074 -0.0463340232 -0.0308577628 0.2316835500
##
## 0.9804491080 0.2959475660 -0.0471975463 -1.1139711697 -1.7562173774
##
## -1.5058897715 -0.1115827067 -0.6391155792 -1.0561383400 -0.3104941924
##
## -0.7894869133 -0.4345920745 0.0641876302 0.0225853174 -0.5383247018
##
## -0.6288059874 -0.1699807762 -0.0204365410 -0.3196111246 -0.0690527459
##
## 0.2139296789 0.3858747453 0.5351752463 0.6859208500 0.3382668745
##
## -0.0923959468 -0.5092540305 -0.2810596590 -0.1280788033 -0.0251686966
##
## 0.1459146388 -0.6388334763 -0.8549431883 -0.4304306719 0.0901648184
##
## 0.4194565915 0.7321616320 0.0630631577 -0.1702568886 -0.1010124175
##
## 0.8696424758 0.6576638662 0.4869129440 -0.1472682707 -0.2191510909
##
## 0.0051498902 -0.0240592131 -0.3072980962 -0.4624827402 -0.1444784368
##
## -0.6318598519 -0.4944557127 -0.5131971828 -0.3242242982 -0.0533648324
##
## -0.0965138425 0.1690945807 1.5985967746 -0.5275095030 -0.5013268721
##
## -0.7837701501 -0.3165116899 -0.0028419092 0.3131148102 -0.6422681057
##
## -0.7763348052 -1.0412595846 -0.9097400983 -0.2686907396 0.6232976521
##
## 0.9113438529 0.7595069738 0.5083068296 0.3822704811 1.1927730131
##
## 1.6270623080 -0.0891082666 -0.2674814837 0.0051332405 -0.1308173489
##
## -0.4082772304 -0.2677919749 -0.0221279466 -0.4325751300 -0.9254670425
##
## -1.1760716576 -0.5103562592 0.4238001729 0.4192276811 2.2763815235
##
## -0.7010206623 -0.8903641286 -0.3987539219 -0.4720677968 0.0948419768
##
## -0.1268822271 -0.0985171330 -0.7363632995 -0.8785720914 -0.4833261824

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```

##
## 0.1905922209 0.3629019431 0.9641056550 0.4252310205 0.4367769373
##
## 0.3988076719 0.9066304019 0.4930265453 -0.4498116123 -0.5908770710
##
## -0.3774632916 -0.4442148244 -0.8148463710 -0.7359323843 -0.3118782805
##
## -0.3976983283 -0.3538817770 -0.6624831602 -0.3423983144 0.7090931520
##
## 0.1306808708 1.6373777873 -0.4038633583 -0.4415899360 -0.0037968956
##
## -0.1051204402 0.6047645785 -0.1052890653 -0.6611468785 -0.6218859955
##
## -0.0411656061 0.1669237136 -0.3219562548 0.4244655373 0.6539364713
##
## 0.0368616491 -0.5367034671 -0.9084993019 -0.1918759266 -0.4483741391
##
## -0.7440035618 -0.5644810183 -0.2974695799 -0.2681147420 -0.4271346042
##
## -0.5005877943 -0.1417391178 -0.0272452700 0.1136671859 0.2736953952
##
## -0.3337770130 1.1519730523 0.7242851924 0.4385211917 0.5379300148
##
## 0.1979454352 -0.0040270628 -0.1720171860 -0.2689858729 -0.8222845373
##
## 0.4290981191 0.9575641729 -0.0629862414 -0.4984851602 0.1155160040
##
## 0.3322620040 0.3823410429 -0.4361953622 -1.0137381142 -0.5332179033
##
## -0.6689891706 -1.0337502691 -0.5198947449 0.1105547071 -0.2184213936
##
## -0.7523337365 0.0737738048 0.2392686321 0.4134211461 -0.0893930018
##
## -0.1716041133 2.1297955802 0.3515352601 -0.2323479681 0.3598216209
##
## 0.5534137687 -0.1173965458 0.0664051422 -0.1497914315 -0.1608183890
##
## 0.2944807945 0.7331808529 0.8213014982 0.9723265906 -0.0420380879
##
## 0.4352526279 0.0014014306 -0.4409994982 -0.2505644345 -0.0474557983
##
## -0.7356571506 -0.6675777250 -0.1342431054 -0.2040313422 -0.7107315812
##
## 0.3203828351 -0.0193499818 0.0287932960 -0.2432387301 -0.2217546519
##
## -0.1855702605 0.1660290893 -0.1157472046 -0.6506821305 -0.2000396567
##
## -0.2764214562 -0.0275380078 0.6787228158 1.1232816641 0.9116155409
##
## 0.2230786945 0.3544677652 -0.0963460205 0.1753018618 -0.2199463703
##
## 0.0025506251 -0.4548060614 -0.6035172839 -0.2874781145 0.0077230350
##
## -0.2285597318 0.2235320318 -0.3461419084 -0.2212369740 0.3446020942

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```

##
## 0.3324349080 -0.3211758475 -0.3945745635 0.6769864292 0.2974400380
##
## -0.4074595581 -0.4210362054 0.0760983544 0.2600731591 0.5742093682
##
## 0.9073215307 0.8718503345 0.5113339196 0.0062780045 0.1678830202
##
## -0.1225266702 -0.3771601416 -0.4960312089 -0.4438619272 -0.0420510828
##
## 0.3845687366 0.3644232832 0.1465958258 -0.0901247581 -0.1290557861
##
## 0.6296422982 1.4043689472 1.3567185321 0.5765961515 -0.3115651750
##
## 0.2756929085 -0.2706343876 -0.0620807377 -0.1427433021 0.2893471856
##
## 0.4447009230 0.1111197809 -0.2143327211 -0.0477572314 0.2878151524
##
## 0.3088758820 0.3442849776 -0.0189119002 -0.0544979492 -0.2164722516
##
## -0.0269401494 -0.3191142192 -0.3986966050 -0.0686036916 0.2597794632
##
## 0.1474490798 0.3502934758 0.2057066067 0.6515527551 1.5571518304
##
## 1.7331076791 0.2139189937 1.1575708524 1.1108737700 1.2210861551
##
## -0.4186862998 -0.4666942711 -0.3886628847 1.0269811333 1.2970210911
##
## 0.3306837861 -0.5447620253 -0.6116316776 -0.2968281716 -0.2366582615
##
## 1.0062955298 0.6641943888 -1.0518019619 -0.3095993472 0.5442852714
##
## 0.3089463419 -0.1704690178 -0.4240467687 -0.1539877368 0.5031492812
##
## 0.2740103005 0.1311014631 0.4835178697 1.6573021860 1.3054844487
##
## -0.4029260907 0.7898397361 0.4983760066 0.3184038857 -0.1004872640
##
## 0.0130010341 -0.1896920548 -0.6831158168 0.8265496500 1.7845253079
##
## 1.3537803870 1.5450324250 1.0289904276 0.3027108105 -0.7928967374
##
## 0.1640034680 0.2179874353 -0.2135406197 0.0601256199 1.0928107821
##
## 0.8625694487 0.1059895634 -0.5300694733 -0.4438290713 0.2379673133
##
## -0.1128681865 -0.5208567441 0.9395381286 1.3507138153 0.6763173005
##
## -0.2396762818 0.7635532757 0.3151981298 0.1308020293 0.1140431616
##
## 0.1628984709 -0.0716895309 -0.1098370070 -0.0934824981 -0.3476353007
##
## 0.4363238892 1.2755653245 1.8121527878 2.0882967400 0.8624185944
##
## 0.4984599611 0.4008247651 0.2908741890 0.0876046734 1.1504175870

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```

##
## 0.7195498763 0.0514997386 -0.1967729874 -0.1268656272 0.1070319946
##
## -0.0294633407 -0.1872751432 -0.1230215771 0.3458909113 0.6938185569
##
## 0.7056019168 0.3525379299 0.6889571368 0.5370195204 0.1892933418
##
## 0.1336365377 0.2461833815 -0.2212644913 0.3518008720 0.0917782751
##
## -0.0447713731 0.3844248534 0.4970498719 0.4194691766 0.3062297257
##
## 0.4634344828 0.4018671296 0.3267051192 0.4669288554 0.7042187235
##
## 0.4165967349 0.7084344413 0.2486258872 -0.0443714638 0.0543185679
##
## 0.3222563050 0.3834755160 0.3418641121 -0.0053387737 0.3462855043
##
## 0.7064523044 0.6442756451 0.4260996553 0.7316679131 0.3297222597
##
## -0.2246078483 -0.0382680746 0.2168676666 0.4530495620 0.3406428917
##
## 0.6997297010 1.6449695371 1.2733983273 0.5093190183 0.1248430552
##
## -0.0569740988 0.0288518089 0.7936713364 0.8162920536 0.4040885094
##
## -0.3452281622 0.4013339474 -0.3724043770 -0.3005059740 0.0555453845
##
## -0.1070562973 0.0372989624 0.6201924391 1.0554103774 1.0611685687
##
## 0.0390779581 0.6062433123 0.9865283697 1.0301253006 1.4634983792
##
## 0.2148935322 0.6466137961 0.7388813708 -0.1440233157 1.3574887130
##
## 1.8516237175 0.9327903766 0.5639574847 0.6653999764 0.5490061060
##
## 1.0080451287 0.6398500406 0.3260955164 -0.2533989892 -0.2108890975
##
## 0.1117149506 0.0441249477 0.0462933820 -0.1729816572 -0.2716114998
##
## 0.7707338251 1.0455376110 1.6514262357 1.9562983787 0.0865679547
##
## 0.2794118204 0.6215705345 -0.1203213330 0.4454934717 1.5929414149
##
## 0.9289951520 1.1462868617 2.1269384906 0.5713134335 -0.0444023956
##
## 0.2357133995 0.4103043672 0.2701701026 0.2106168334 0.5524953871
##
## 0.3048850591 0.0047801704 0.1156294212 0.2744443952 -0.0226158623
##
## -0.4115744116 -0.2056035953 0.9675654632 1.1057459856 0.5343702979
##
## -0.1813078932 -0.1758734053 -0.0746886365 0.0062523907 0.2839568942
##
## 0.2638183614 0.4902501874 0.8892416330 0.7670960936 0.2904623349

```

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##
## -0.1981655747  0.2322157311  0.0543923982  0.1040098364 -0.1140650748
##
##  0.0280804584  2.7147589495  2.3322592578  2.1015293248  0.8572407510
##
##  0.5889376987  0.6214357281  0.3932437692  0.6330420813  1.4155219678
##
##  1.2959490947 -0.1745937877  0.1310415584 -0.7686940060 -0.6205942492
##
##  0.2380744801  0.2150075343 -0.2232895611  0.1197010681  0.5353528955
##
## -0.0719541522  0.8056856651  1.3272070040  2.7587832407  1.7873727336
##
##  0.7701715083  1.3199775180  1.0691421155  1.1153789515  1.7311274796
##
##  1.7007848411  0.3826384282  0.0966181963  0.0318561226 -0.1882214301
##
##  0.4015588640  0.5498194201  0.3137850985 -0.0275446325  0.1458682106
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##  0.4579247409  0.4431283166  0.9181917795  1.2258646593  0.7613557436
##
##  0.1408960935  1.5336398343  1.7212454551  0.7632934338  0.4161668080
##
##  0.7332574086  0.7282868970  0.0467755441  0.0553278165 -0.0121832716
##
## -0.1232761898  0.0807847402 -0.0384286261 -0.0057306601 -0.2955840827
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## -0.2808986476 -0.3789516515  0.0348864847  0.6994939553  0.9302273781
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##  0.9801027214  0.9247489402  0.5176808653 -0.0648817945  0.4825564818
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##  0.6916981324 -0.3177430424 -0.4821684538  0.5571881033  1.4628490874
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##  0.6060513657  1.0900171719  1.1750709883  1.2107312345  0.5788404772
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## -0.2330579391 -0.2847100773 -0.7135591415 -0.1137894415  0.8372097115
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##  0.2252421941  0.1503630908 -0.1177102764 -0.1011422052 -0.1921803860
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##  0.9071226577 -0.4713511602 -0.0426628072 -0.0456886256  1.1115626087
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##  0.8822659575  0.3171953994  0.0232888180 -0.1483644979 -0.1416717774
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##  0.2815672531 -0.1278333215 -0.0946732365  0.1071416495  0.1354935120

```

```

##
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## -0.2907538344 -0.1355773633 0.2602029046 1.2963273702 2.2360976798
##
## 0.9753113761 -0.5024862515 0.8400365136 0.3865282328 1.2699978712
##
## 0.4462734900 0.1588971568 0.3850104336 0.2573620448 -0.5417728806
##
## -0.3201774654 -0.2951534661 -0.0544915207 0.7272452307 0.4386255401
##
## -0.1700705584 -1.0349746702 -1.4672751112 -1.1760765448 -1.2026988109
##
## -0.6343315258 -0.1482304993 0.1659886540 0.0228652661 -0.3712714084
##
## -0.3787308346 -0.1058106527 0.3647513480 0.9413655922 1.5383854517
##
## 2.0633629275 0.9700046055 0.3762742240 -0.0839477249 -0.3618772566
##
## -0.4214238582 -0.2043157852 -0.2551312145 -0.1732569010 -0.3429914598
##
## -0.5744889947 -0.4105492873 -0.5793596679 -0.4387031045 -0.9294254365
##
## -1.5254548767 -1.4288869949 -0.5190188048 -0.0443638743 -0.0475769639
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## -0.0697276265 0.1803357027 -0.0269844908 -0.0228880221 0.1600212617
##
## -0.1673098898 -0.2627948295 0.4360382044 1.3504428940 0.5564985068
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## 0.5084582568 0.6326406141 0.4499228936 -0.2903970508 -0.0420737809
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## -0.1846491839 0.3540369614 0.3575455637 0.1668830360 -0.2799530890
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## -0.3292039924 0.3300628059 1.0100522044 1.7998427108 1.0699037494
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## 0.2449466836 -0.0794640918 0.3925709476 -0.4298769362 0.1813109615
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## 0.9014961527 0.7202959396 -0.2876963563 -0.8313264999 -0.8687402125
##
## -0.1328676760 0.3106066621 -0.2433700893 -1.4684761372 -0.8794661874
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## 0.3011182393 0.5008459426 -0.1823934728 -0.6935108107 -0.1006223409
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## 0.2342820898 0.8571475671 2.0790264407 0.2818758308 -0.3224499438
##
## -0.1740742927 0.4554891473 1.4843632352 0.5620153979 0.6251040515
##
## 0.6941157010 0.3941508668 -0.0346338796 -0.4892158558 -0.6558306568
##
## -0.7102283476 -0.7123508286 -0.6140875012 -0.4863848440 -0.1032792889

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##
## -0.0862694940 -0.3218732914 -0.3188791568 0.3765995628 -0.0176136212
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##
## -0.0149196508 0.4371918069 0.4194108490 -0.4760001820 -0.7084997230
##
## -0.1901654576 -0.2856857790 -0.5492581120 -0.4339720284 0.0705981784
##
## -0.0247086537 -0.0726851336 -0.0554935271 0.2209008160 0.7067988402
##
## -0.7954045339 -0.9554662409 -0.8111297650 -0.8490272042 -1.3370474262
##
## -1.2169812304 -0.0056540262 -0.1353241285 0.5242377494 -0.3292622574
##
## 0.3066625276 1.2224578658 0.9932412692 0.8681916729 1.4055042142
##
## 3.2149776022 0.4779873757 0.5498877008 1.0227976078 1.4960257599
##
## -0.3778866150 1.4983268568 1.3597928900 0.9251542275 1.5891015427
##
## 3.3126721302 0.8087219942 1.6045303232 0.6076646524 0.4606841706
##
## 1.0956508184 1.2954968280 0.8257995028 0.7098215660 1.4984136571
##
## 1.4909171338 0.9930530871 -0.5185798388 0.5869607746 1.0382145320
##
## 0.9910298417 1.2400925142 3.2320292549 2.7465216805 1.8152034685
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## 1.6395556476 1.5375689231 1.3808288606 0.4881610172 0.0959160173
##
## 0.5007397538 0.5992168879 0.2607368609 0.6975714652 0.7898235531
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## 1.2278089763 0.2791352717 0.0285622844 0.3318710373 0.2118094695
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## -0.7626472616 -0.1831531691 0.5928442558 1.3132152211 1.8018082460
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## 2.0534841446 1.3677549246 1.6454366778 1.6117388602 1.3834906852
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## 0.7796722138 0.0092039511 0.0121122231 0.7017515681 0.8539520718
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## 0.7313788055 1.1277892100 1.7033832786 0.3593705721 1.1566811716
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## 1.7930359427 1.0180928692 0.3189667619 0.2357596789 -0.1131576977
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## -0.8069596570 -0.2694826077 0.3363386787 0.7709789181 0.4520814767
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## 0.2901358063 2.0711631741 2.4199731768 1.3199999150 0.5287680066
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## 1.1023357396 1.0937592041 0.9524997482 0.3579438718 1.7540391486
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```

```

##
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## -0.0465786488 -0.0908263840 0.1068141155 0.7280270249 2.7658386733
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## 0.0755761854 -0.2790683823 0.4476308392 0.8590433849 0.3308034035
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## -0.2572336149 0.2567250612 1.4704532426 1.9738239981 0.3526311952
##
## -1.4846901876 0.0419811081 0.6100581402 1.5317667409 1.7174305123
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## 2.3959765615 1.9882289426 1.7852521337 1.4937265120 0.7049739078
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## -0.1315797443 0.0757593036 -0.2632488458 0.0304376494 0.9420511114
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## 0.7889414125 0.3636543441 1.0990891244 2.1661690929 2.2258202925
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## 0.7326050595 -0.6424297884 0.2450927640 0.3254635284 0.7681643939
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## 0.8817196888 0.4905881715 1.2580025864 1.0702790938 0.7825617571
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## 0.7585563007 1.2748730252 1.8889781781 1.6028883173 0.7544212953
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## 1.1786917444 0.7651850469 -0.2379865113 -0.6372930997 0.4419297402
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## 0.4008632317 0.1021769073 0.2621076045 0.5169193020 1.2409683828
##
## 2.2404081486 1.5552219298 1.1870534428 0.8058097150 0.3437355121
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## 0.2112576432 0.6371130439 0.4981058868 0.5465726808 0.8204612543
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## 0.4040996616 0.2434796290 0.0565051265 0.4576371446 -0.7069014239
##
## -1.0006559884 0.0374654356 -0.0060068957 -0.7680092333 -0.1998744479
##
## 0.8176272544 0.5094019584 0.5214427027 0.8796892708 1.2097259360
##
## 0.8022312695 1.4041080395 0.2330385881 0.6735869036 1.2007481924
##
## 0.8540314307 -0.4955165448 -0.2760371810 0.5848866755 0.5507221305
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## 0.1240961930 -0.0920618072 -0.4733750251 0.4475091569 -0.0878365796

```



```

##
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##
## 0.4622317176 1.3275728736 0.7645191395 1.0282304816 1.1330247602
##
## 0.8614276843 0.4727949302 0.5473135857 0.0336755230 0.2102778897
##
## 0.4139419467 0.3072862847 0.2013367134 -0.5552931746 -0.6934347979
##
## -0.5277535807 -0.5095947475 0.0796209408 -0.3045452345 -1.4583058062
##
## -0.5329129094 -0.3375305033 -0.3558305067 0.4370830398 0.0278875040
##
## 0.0687551456 0.7425221434 1.4360921603 1.4852703823 0.9825767601
##
## 0.4271749363 0.1943456825 0.2160596902 -0.9696729243 -0.3392192137
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## 0.5364687349 0.8020388599 -0.0586055167 -0.0278093464 -0.7713724444
##
## -1.0389505808 -1.1820367810 -0.7300363859 -0.3438499854 -0.9235339669
##
## -0.7489180096 -1.6577238613 -0.8444710208 0.4352761601 0.0515785498
##
## 0.1634804384 -0.1027714598 -0.3149186077 0.4316981191 1.0074935849
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## 1.0702509542 0.6877960564 0.4155652403 0.3401284765 -0.8943422962
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## -0.7355544930 -0.1065728016 0.5081108647 1.0266726445 0.1395097487
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## -0.3959552078 -0.6783951613 -0.6539799434 0.1121029307 0.6802555097
##
## 0.5345241416 -0.9679305705 -0.9988162748 -0.7190368821 -0.5748305009
##
## 0.1664309042 0.6890270798 0.2772699235 0.5282150828 0.7566551972
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## 0.6364811759 0.5097561286 0.2864460133 0.0166952559 -0.3292223655
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## -0.6713390198 -0.3499165389 0.0631978304 -0.0098387604 -0.5399165816
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## -1.0399002844 0.1581552051 0.4129440744 0.6648294444 0.1341827499
##
## -0.5332588615 -0.5795230586 -0.2903347241 0.2156608798 0.7476303905
##
## 0.4329534832 0.2479613181 0.4327106327 0.8043701156 1.0575684152
##
## 0.6040007131 0.6675898883 0.6615093147 0.5381437486 0.4826380619
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## 0.4946050746 0.0001754608 0.1663499747 -0.5847901804 -0.5434489250

```

```

##
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## -0.6047564279  0.2727470873  0.6644922335  0.4537406574  0.1002619319
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## -0.0981148727  0.4832418108 -0.0171285185 -0.0775408737 -0.2086030049
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## -0.0457413090 -0.0211633301  0.0765692291  0.3506432423 -0.2225121736
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## -0.0653745802 -0.1670511391  0.1530364962 -0.0773996837  0.0069155695
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##  0.0945831116  0.1164898504  0.4336502610  0.8624962516  0.9124632262
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##  0.8954075322 -0.0732199083  0.0866698769  0.0951319828  0.0255249816
##
##  0.2974356295  0.4509447292  0.5997127122  0.6514479180  0.7895002085
##
##  0.7894192756  0.7912850970  0.8395964053  0.6925543414  0.1018456809
##
## -0.4965718656 -0.3946810789  0.1634341618  1.6624935059  2.2581544019
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##  1.3257202878  0.7349825777  0.4539961918  0.2718681727  0.2491188444
##
##  0.4065734442 -0.1059217853  0.0120505277  0.5727766316  0.1667883365
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##
##  1.2274641327  1.1851431899  1.0507726345  0.5935107540  0.2252912432
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##
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##  1.1101113057  1.0144897113  0.8667350267  2.4314186946  1.4762139142
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##
## -0.5376568847  0.0867544014  0.5237371976  0.6591818715  1.1572036615
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##
##  0.4702617429  0.6108168342  0.5706866035  0.2714663928  0.0759165061

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```

##
## 0.2228540377 0.5144709299 0.8781562135 0.1463176039 0.1360652764
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## 0.3076642468 0.7384686417 1.1816069821 1.0982257590 2.0630825646
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## 0.3417539204 1.4080055704 1.2536272207 0.7641078675 0.0698114723
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## -0.2567500883 -0.0899149298 0.2399398924 0.1974373359 0.0710781887
##
## -0.0360051676 -0.0611693365 0.0481701778 -0.3361062891 -0.0534916651
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## 0.4541520994 -0.0243497552 -0.5654771547 -0.3582417409 0.5739282482
##
## 0.1796164673 0.4640042827 0.7087772104 -0.2386230428 -0.6644756136
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## -0.3117507566 0.1274444766 0.1097447260 -0.3026833057 -0.6068326091
##
## 0.1137311169 0.0138994037 -0.1254991391 -0.1230311821 0.0048018754
##
## 0.0310577916 0.7308897926 0.9202886793 -0.3264898875 -1.7710015412
##
## -2.0727668407 -1.1896643658 -0.2191293118 -0.7450911077 -0.8032071242
##
## -0.8694953930 -1.1719175805 -0.4780659803 0.2286387139 0.1877410331
##
## -0.5240795525 -0.7157570557 0.9187084979 0.4711746605 -0.5610723735
##
## -0.4293097495 0.2031805022 0.9115418864 0.2906813618 0.2407960579
##
## -0.6097673317 -1.3810440427 -1.5514397538 -0.0472450075 -1.0642179462
##
## -1.6428043862 -0.5245636163 -1.0785432133 -0.7059945837 -0.0299694789
##
## 0.0177336079 -0.7277502468 -0.8436998243 -0.3431649473 -0.1114385159
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## 0.7440530779 0.7920509617 0.4168656872 0.3932225640 -0.6892755922
##
## -1.2632509245 -0.9171895320 -0.0147917096 0.2549424778 0.0124573825
##
## 0.7236364514 0.1135208237 0.1288690025 0.5293642431 0.4085750566
##
## -0.3833420527 -0.9968399535 0.0472387489 0.3428888909 0.1254705540
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## -0.0495745344 -0.5378211574 -1.1529341912 -0.4677200958 -0.5551881586
##
## -0.2982144454 0.0529054956 -0.1628743745 -0.2279481239 -0.0572275300
##
## 0.1343418040 -0.0593499652 -0.6376941406 -0.9464658871 -0.4079433236
##
## 0.1881594814 0.5271030924 0.9549082782 0.5068639452 0.4256742329
##
## 0.4441495323 0.6943132989 0.3870295504 0.1765396333 -0.0784732665
##
## -1.5299382101 -0.5044440772 -0.5102673217 -0.5534032211 -0.5861383180

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##
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##
## -0.6041790624 -0.0309672675 0.4102467062 -0.6103975183 0.2147960982
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## 0.5426239859 -0.2762499743 -0.8563627083 -0.7621339084 -0.4607240657
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## -0.6079239292 -0.4034209895 0.6232194803 1.4088592088 1.3153896668
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## 0.5783319796 0.1453976592 0.2945676267 0.1412649049 0.0319774072
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## -0.5791181748 -0.5034445608 -0.5340403156 -0.5063040028 -0.4665691648
##
## -0.5182085460 -0.6578703534 -0.6055438337 -0.3703252501 -0.1375006731
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##
## -0.0391783221 -0.0136578146 -0.3239233873 -0.5184326006 -0.4845153029
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## -0.4010333965 -0.3822415092 -0.4272636571 -0.7195287508 0.6227546737
##
## 0.1510063950 -0.1859815489 2.2506596692 0.0344625431 0.8989010846
##
## 1.1418384489 0.2091537645 -0.2791805806 -0.6711475565 -0.2675051452
##
## 0.4314366235 0.4775814684 -0.2650918452 -0.5306380185 -0.0129171273
##
## -0.0116212155 0.2321165165 0.3564153479 -0.1048439119 -0.2369402515
##
## -0.0996894473 -0.4408210902 -0.6912316883 -0.4197734122 0.0069449827
##
## -0.0852489138 -0.5708060929 0.3585310733 -0.3500429669 3.1493103495
##
## -0.3585713660 0.1275421411 0.4997980169 0.0512137636 0.2313960304
##
## -0.3529539151 -0.4616063130 -0.2460701262 0.1184095810 0.3846563674
##
## 0.5645666806 0.7347121470 -0.7376489121 0.4306628002 0.3095494139
##
## -0.2626195313 -0.3374232814 0.4334771774 0.4616353827 -0.0907853214
##
## -0.3306513077 -0.2775883594 -0.2576788444 0.1634307968 0.5646464463
##
## 0.6793682820 1.1696351951 0.9527871139 0.1209706000 -0.3702288002
##
## -0.7127273802 0.3869037779 0.4887753109 0.1862767766 -0.4899772968
##
## -0.8506862274 -0.1268460061 0.7312500614 0.7068633734 0.3734949488

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##
## -0.2044682960 -0.1939247772 -0.7244202970 0.1414899404 0.1681598534
##
## -0.1730434509 -0.6454860765 -0.7045078866 -0.3622589945 -0.0671270670
##
## 0.0990315297 0.7757543529 0.6517963834 1.0805340746 0.4212544914
##
## 0.0919448163 -0.3376082025 0.2872096289 0.4361762067 0.2656965843
##
## -0.6021259426 -0.5702902680 -0.1505616136 0.3480072807 0.2377551996
##
## -0.5626723687 0.2597967879 -0.7832596859 -0.6270252934 -0.3535738184
##
## -1.4064537893 -0.8211344430 -0.8156925416 -0.7124130896 -0.2672052857
##
## -0.1051483502 0.1911037395 0.3338728137 0.6064553057 -0.0431100738
##
## 0.3928820802 0.4757030796 0.3254338489 -0.6590485077 -0.2747005807
##
## -0.3230171743 -0.6943515479 0.0874293009 0.3533359778 -0.7141247035
##
## -0.1380382788 -0.1344862171 -0.4509003661 -0.5071051739 0.3597310804
##
## 0.7252207395 1.1306825554 0.3098754394 0.4028012921 0.5393258187
##
## 0.6425558744 0.1180464284 0.1027898387 0.2980821431 0.0692587568
##
## -0.4460780014 0.0672561359 0.4192277173 0.2405661986 0.1291430381
##
## 0.5154328005 0.6588823579 0.4593640209 -0.2150572164 0.3870506570
##
## 0.6059994830 1.0251065331 0.6481240875 0.1099206673 -0.2899198362
##
## -0.0010475857 1.4490865749 1.5079606860 1.2272237411 0.6551916362
##
## 0.0217612526 -0.0201065780 0.0331131329 -0.2717346888 0.2170033954
##
## 1.0200957927 0.8669948683 0.5019822494 0.0333624449 0.3371959386
##
## 0.4148889954 0.7371127933 0.6868974524 0.1654130296 0.1216193732
##
## 0.1385408276 -0.0533109178 1.4773673126 1.7274452147 1.1176142538
##
## 0.9866907371 0.7416219578 0.0880807617 -0.1383868074 -0.1916945057
##
## 0.2740216904 1.3040447690 0.2274119691 -0.0994440049 0.2725071741
##
## 0.3016114676 0.2655756481 0.6090460757 0.9105309040 0.3596689147
##
## 0.1760599104 0.1633147589 0.8286983423 0.3369654940 0.1101795245
##
## 0.0026458941 0.1218652945 0.7867772194 0.7621896540 1.0391272392
##
## 1.2205283685 1.0320425517 1.0233395172 -0.2472039996 -0.0933237919

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```

##
## 0.4132370954 0.4043215150 0.3056001222 0.1694492413 0.7953800573
##
## 1.0713717706 1.4353044770 0.7170991475 0.3291521193 1.3841654694
##
## 0.6144766394 0.6904724450 1.2104399759 1.0316085069 0.5125810987
##
## -0.1541215858 0.3825436256 0.1829072119 0.2287328970 0.8671771969
##
## 0.9397213572 0.7746498000 0.2801026354 0.1118729526 0.7532902727
##
## 0.9296783317 0.6667628224 0.4309263407 0.5514786579 1.1840283417
##
## 0.6021054053 0.3921134579 1.1185600827 0.7447429876 0.6490083263
##
## 0.2907869156 0.9758090640 -0.0472512269 0.6320077011 1.1545804163
##
## 1.1040026286 0.9710317143 0.9293980379 1.2083479148 -0.1621180427
##
## -0.7961614941 -0.9307770122 0.3399840309 0.3551104749 0.4477281416
##
## 1.8430989829 1.6459227551 1.7523073691 0.7805453097 0.6634267176
##
## 1.4155368320 -0.1328484788 0.7483783458 0.8300669887 0.6346968454
##
## 0.7893466502 0.7525451256 0.3138642932 0.1040483451 0.0251274641
##
## -0.0211794427 -1.1105503290 -1.6810185825 -0.0302677660 0.2121671765
##
## 0.1293731186 1.0604683613 0.8268723770 2.2612512450 1.9042050656
##
## 2.6864846276 1.4005796047 0.8869771481 0.6375995117 0.8469293419
##
## 1.1816731987 1.2210964248 0.8351780187 0.2468147028 0.0385050263
##
## 0.6206039044 0.1437135009 -1.1509597106 -1.2011322847 0.1563978379
##
## 0.3037357215 -0.1389588653 -0.0968783769 0.5614178943 0.4243026599
##
## 0.8093562861 0.2682901512 0.7378346149 2.0549238396 4.2356408594
##
## 1.7930303509 1.3752062288 1.4307738837 1.5661322049 1.6981264432
##
## 1.6016758494 0.6323167788 0.2397158756 -0.4862145898 0.1015955520
##
## -0.3262855857 -1.0737956021 -0.1120796192 0.3208550098 0.2462414018
##
## -0.0209627094 0.1293516235 0.9854009275 1.4760158269 0.8532811769
##
## 2.3445071730 1.5992088236 0.6004455442 1.7349863951 0.9017246052
##
## 0.3552393742 0.3678456233 0.6457620188 0.7719596273 0.7087395635
##
## 0.4295864695 -0.5598098012 -0.0566670229 -0.1833430704 -0.6361474787

```

```

##
## -0.7421746068  0.1082689450  0.3877608313  0.2815469010 -0.0398620084
##
##  0.0001406978 -0.6794830007 -0.0567545751  0.8049152474  0.8901303354
##
##  0.0928253057  0.8674199135  0.4383379330 -0.3195630495 -0.6571481807
##
## -0.1706271733  0.5661488452  0.7589774969 -0.1589111617 -0.6334524431
##
## -0.0029561239 -0.4826924963  0.0343807520  0.1016158094  0.0660337992
##
##  0.0066026645  0.0133543029 -0.0732979466 -0.1011263021 -0.2346268422
##
## -0.2610681518  0.5104750994  0.3513994612  0.3315900465  0.9061625195
##
##  1.2854067164  0.2237304502  0.2830418400 -0.2959004603 -0.5599527939
##
##  0.4628040166  0.9937759283  0.7384880950 -0.1107042485 -0.6227577048
##
##  0.2214017833  0.4636400545  0.0258143565 -0.0710810732 -0.0544836711
##
##  0.2463501080  0.3179977367  0.0493421561 -0.2526892949 -0.7698728779
##
## -0.3907742190  0.1882006870 -0.4468001930  0.2375391234  0.6081782715
##
##  1.0182083661  1.3292017032  0.7905204683  0.0244006271 -0.0065669577
##
## -0.2035413985  1.0609704490  0.7892011438  0.2624239288  0.1530081076
##
##  0.3503876362 -0.1151127316  0.1181312070  0.0949009350 -0.2066134809
##
## -0.5263947055 -0.2578925140 -0.1687622577 -0.3344858487 -0.2352846323
##
## -1.0270263085 -1.2131650626 -0.0195157908 -0.3813961047 -0.7796277872
##
## -0.2215644903  0.2682860095  1.1079421743  1.6892027923  0.7066953776
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## -0.4622188081 -0.2003852871  0.7803912288  1.8651095176  0.9607337086
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##  0.1674575899  0.3374618042  0.7385187656 -0.8679517091 -0.0749588817
##
## -0.0058763185 -0.1346308834 -0.1302927738  0.0018275425 -0.3447881245
##
## -0.6654505314 -1.2576601603 -1.5567165856 -0.5884061232 -0.5358438542
##
## -0.9508254542 -0.2399361812  0.2422652637 -0.1962816991  0.4683992979
##
## -0.3467171063 -0.1458169633 -0.0648921170  0.7489606601  1.8066399706
##
##  1.9475347177  1.7416072481  1.4141609639  0.4666392044  0.2122337719
##
##  0.1700391936 -0.6800643377  0.3563598265 -0.0481618467 -0.0551250141
##
##  0.1016818600 -0.2710712751 -0.4716340413 -0.6073876583 -0.7317547790

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##
## -0.7252355973 -0.4642149315 -0.5339232833 -0.3931795276 -0.0666033328
##
## -0.0177650983 -0.1100591450 0.6841702012 -0.5174947136 0.1238865080
##
## -0.1835808670 0.0227623458 1.4795002051 0.5616869837 0.8305213345
##
## 0.4323012831 0.0976077562 -0.1557658921 -0.3344854295 -0.1060885933
##
## 0.1595907657 0.8506089330 1.0275810828 0.2051652463 -0.6560387161
##
## -1.1744014130 -0.8644660404 -0.4119969498 -0.5303897726 -1.6965823353
##
## -0.4233827182 0.8202785728 0.8099394074 0.2994573711 0.1819993957
##
## -0.9249662840 -0.0437412962 0.3315928965 0.4648788437 0.2191584786
##
## -0.8045209845 -0.8519521029 -0.0586834148 -0.4568726141 0.7109981791
##
## 0.9481884758 0.7156226366 0.2624252338 -0.3750157501 -1.2061046952
##
## -0.7500213048 -0.3523067728 -0.5060617916 -1.2131347069 -0.5156057364
##
## 0.2056831423 0.5223314589 0.3044782732 0.1071901063 0.2663926973
##
## 0.6790487049 1.2238668691 -0.5573600323 0.2263639163 0.9705848469
##
## 0.7586492929 0.5545926373 0.7935741359 0.8539117218 0.0101443904
##
## -1.2912038129 -0.9591150013 -0.5805318856 -0.6486800436 -0.8770749263
##
## -0.2120286577 -0.4335337954 -0.2814244029 -0.0376175243 0.3744300516
##
## 1.6537038120 2.2358373697 0.2043516761 -0.0236882881 0.1464375497
##
## 0.8226735036 0.8889596379 -0.1443832896 0.0452315022 0.2662526797
##
## -0.3983662576 -0.4917336481 0.1873619493 0.2945884493 -0.3990124934
##
## -0.2195138726 0.1484865360 0.7045573754 2.7784301460 -0.9007733717
##
## -0.7052523596 -0.3081613877 0.1054700880 0.0535915394 1.4871709223
##
## 1.9978033569 0.4277578795 0.8272080541 -0.0689583251 2.3606465357
##
## 3.5287800551 4.0011015585 3.7133014546 0.3839403738 0.4563266046
##
## 0.5766681155 0.3553608896 0.2382327944 -0.8029346846 0.4662456669
##
## 1.2618892864 1.3042201320 1.4879490830 2.5390184533 2.1871110190
##
## 1.0726269076 0.8288742545 0.3013379939 0.4790679801 0.4133695800
##
## 0.0044801587 -0.0706688437 1.0042492821 0.2670759112 0.0036011210

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##
## -0.2010187577 -0.8406992788 -0.8320764873 0.0729411616 0.2346858118
##
## 0.0467963618 0.7571399543 1.2587222940 0.2482708027 0.3668696749
##
## 0.4891073739 0.2796283577 0.3588294819 0.2740111138 0.9012034434
##
## 1.2103276656 1.0691713533 1.2399447887 2.2446600865 1.0468912945
##
## 1.1745326878 1.4323237019 1.0182457071 0.9476971717 0.4210411341
##
## -0.5551670984 -0.1881471272 -0.0191191947 0.2098882708 -0.5876883013
##
## -1.2463538466 1.9985474323 3.4949708911 0.6977887816 -0.0155531395
##
## 0.0522920176 -0.1616128641 -0.1306741180 -0.5340405548 0.6996199982
##
## 1.3181861853 1.0782453813 0.8152471176 1.0806944560 2.2769733969
##
## 0.0326675241 0.3737734160 1.2905882328 0.5841165853 1.2256257953
##
## 1.4736849589 0.6614842864 -0.2721656818 0.4555037208 0.2164741613
##
## 0.5330914489 0.4539952506 0.8782310440 3.1880273063 3.4666315287
##
## 0.1866233793 -0.0248177648 0.2671984388 0.1235957157 0.4152635033
##
## 0.1347934898 -0.3073317944 0.6367017001 0.7276876980 0.0306959481
##
## 0.7013850981 1.1952928397 0.0507746999 -1.2487799198 -0.5268851838
##
## 0.4187536053 1.2329049232 0.2836484668 0.9064567117 1.3872425392
##
## 0.6212344193 -0.2408219831 0.0356616256 0.3830835633 1.2429894766
##
## 0.6189587532 0.7510906555 2.1653009454 1.9697288435 -0.0308687092
##
## 0.6192853037 0.5687306378 -0.2451610376 -0.3850266743 0.3777560978
##
## -0.2899607814 0.3049305127 0.6958145446 0.4515732898 0.0739405999
##
## 0.4043780901 0.1273908079 -0.5597957236 -0.6983004135 -0.7103215994
##
## -0.6262189529 0.2733169647 0.9068181124 0.2551076309 0.7748379939
##
## 1.0445248407 0.0186347072 -0.5852186319 -0.0156341509 0.9598096894
##
## 0.8415679178 0.1593389190 0.5661309255 1.4234216706 1.0095683487
##
## -0.2100805983 1.1116284326 0.8665888909 0.0462507440 -0.2725553714
##
## 0.3169107836 0.2628035202 0.4072563724 0.2473857554 0.0639126409
##
## 0.3205648818 1.3212970890 0.2526110599 -0.6023064432 -0.3261341666

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```

##
## -0.1349693410 -0.4192217220 0.0260418597 0.5804789415 0.7273328011
##
## 2.0716025287 1.4303681247 0.1426176418 -0.4494360798 -0.0384723570
##
## 0.7632953741 0.8536290363 -0.0990190605 0.4197629467 1.1968455972
##
## 0.8898079860 -0.1796355935 0.8649351416 0.8813668600 0.6348123596
##
## 0.3520065297 0.1771997028 -0.0961960116 1.5038657414 1.0456816516
##
## -0.0389367434 -0.2552745410 0.4840065962 -0.2273779043 -1.0851262545
##
## -0.3629206412 -0.3589560809 0.7308063859 0.8511464048 -0.4253119014
##
## -0.1499279861 0.6263192737 0.9035876594 1.8208277822 1.3228795533
##
## -0.0410701248 -0.4646535615 -0.1399388330 0.4294187721 1.6226432978
##
## 0.4636461887 0.9214886173 1.7531375491 1.3786092743 0.0435080332
##
## 0.5790479225 0.8243925144 0.8143696752 0.4419033242 -0.6114291421
##
## -0.9300637391 1.4541815606 1.3502771745 0.4030394827 -0.2578925585
##
## -0.0177177404 0.2837608525 -0.7231441196 -0.7740232321 -0.1707690363
##
## 0.1642824539 0.5554747015 0.4661209206 1.1225741813 0.8003356005
##
## -0.0048991965 0.2624742198 1.0170135007 1.3258913676 -0.4343161550
##
## -0.4503121035 0.0266420552 0.5614395992 1.0519052301 1.1505298039
##
## 2.2088321101 2.3516159672 1.5141984570 0.2513515659 0.2108021290
##
## 0.3698974964 -0.0950456537 -0.1094359122 -0.1820466238 -0.3301090101
##
## 1.4181077274 1.7987833330 0.9195272799 0.1975863360 0.1799458203
##
## 0.7409197780 0.4973516780 -0.5973683078 -0.2428577236 -0.1861714386
##
## -0.0811982945 0.1873537899 0.0833465136 0.2346559554 -0.0090892614
##
## -0.1707608278 0.0601976799 0.8186309968 1.2867816737 -0.5432542711
##
## 0.5919214424 1.0608859679 0.6643472905 0.0914007700 1.0048697654
##
## 1.5239551901 1.2857504918 0.8046675261 0.1539705295 -0.5533402295
##
## -0.9354802792 -0.3905699675 -0.0846411816 -0.1540486348 0.1884541092
##
## 1.8097105212 2.2109683759 -0.4712189513 -0.7981833063 -0.5636435461
##
## -0.0309858733 0.0812984340 -0.4040676342 -0.1005595294 -0.4152850658

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##
## -0.4747728453 -0.4311635367 -0.5867630847 -0.5594036753 -0.5510477681
##
## -0.2411742942 0.3815988535 0.8489204774 0.8800739457 0.4305423322
##
## 0.4921315147 0.5594340645 0.4124763477 0.6050145909 0.7793520964
##
## 0.3167438684 -0.1204374606 0.0265383878 0.0762641319 -0.0783190013
##
## 0.4160991964 1.7841654197 0.0439030428 -0.7553143390 -0.1353971269
##
## -0.2618839520 -0.2927878488 0.0651775243 -0.2214669265 -0.0295960717
##
## 0.1691405386 0.3049489090 -0.0115712473 0.2923906328 0.5054507780
##
## 0.7641601699 1.1520314885 0.9429253366 0.1958281614 0.2629626702
##
## 0.4236296609 0.1085861672 0.4364676496 0.9140641247 0.5952734775
##
## 0.1118514336 0.0857070962 -0.1588747306 -0.0167534491 0.6260413698
##
## 0.2874994775 -0.3575490916 -0.2735542807 -0.6629317992 -0.2180477299
##
## 0.1528388042 0.6709464113 -0.3042031906 0.0828354966 0.2349638222
##
## 0.3074263291 0.6453035110 0.0011390522 0.1113366396 0.3558680491
##
## 0.4897371161 0.9207552092 1.2320112713 1.0835622247 0.2140448854
##
## -0.6557462448 -0.1300987024 0.8607006176 1.1784566586 0.4901530370
##
## -0.0653935831 0.1877596294 -0.0565657858 -0.0134780879 0.1035478647
##
## 0.1722186346 0.0060544961 -0.0437582160 0.1260830362 0.1493723400
##
## 0.0707970598 -0.3990893273 -0.4082930797 -0.5034781784 -0.5288694593
##
## -0.6041505235 -0.3724370633 -0.1067157536 0.2079856796 0.6187356483
##
## 0.3077272493 -0.2735611226 0.1647647464 0.0849828301 0.7921977625
##
## 0.9445351537 -0.2499257632 -0.8228936528 -0.1281274420 0.8830771881
##
## 0.8906260042 -0.1167874113 -0.3707098432 0.5504656934 0.7951235630
##
## 0.5862247253 0.3205339010 -0.3965090598 -0.2674707697 -0.4402199079
##
## -0.5330674389 -0.1622369664 -0.1850626291 -1.1500096091 -0.7946690199
##
## -0.9473032335 -0.2036917928 -0.3965613562 -0.5600786096 -0.4820187567
##
## 0.0657563858 0.7925555196 0.6370531231 0.7091008399 0.2057073342
##
## -0.6472785866 -0.1102145258 0.3675407732 -0.0771550358 -0.1452242791

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```

##
## 0.2969411055 0.6552262198 0.5797608007 0.2064148170 0.4949765742
##
## 0.4333625408 0.3395145780 0.3575161237 -0.0563173010 -0.5272479202
##
## -0.9697259622 0.6181015057 0.7783884420 0.3349952394 -0.0417045595
##
## 0.0581435271 0.3919958544 -0.0043991701 -0.3088846083 -0.7170482704
##
## 0.1657063820 1.3312595536 0.6359222098 0.3617572721 0.1199275404
##
## 0.0093055583 0.7249612308 0.9752655380 1.0374000997 1.0675929355
##
## 0.9193572426 0.1049202549 -0.3838625472 -0.4821031003 0.4532670416
##
## 0.6013302772 0.6684932500 0.8014676928 0.8714478925 0.5552399141
##
## -0.2244544273 -0.3860582491 -0.7887531889 -0.5210186176 1.0497615943
##
## 0.3430427084 -0.0757996331 -0.3106499528 -0.4412101555 0.7693734573
##
## 0.9507757739 1.0326104971 1.1966512358 0.6907091709 0.0230765747
##
## 0.3601439035 -0.0036532154 0.4584993523 0.6005155974 0.4729576350
##
## 0.1830234142 -0.1132199714 -0.1679990170 -0.0804825539 0.0400419949
##
## 0.0359416575 -0.3289594796 -0.0684010616 0.3907596998 0.4591596906
##
## 0.8971902261 1.6347912397 1.7992422419 0.9398526679 1.0502141377
##
## 0.6896454345 0.6538779749 0.3400997201 -0.1732729523 -0.2955789994
##
## 0.0766527953 0.2915194963 0.3332570121 0.6621321021 0.4866536230
##
## 0.4400407569 0.6527372591 0.8595031136 0.6698322899 1.3000640725
##
## 0.2805873234 1.2002053977 1.3460156651 0.7830240645 0.1312647467
##
## -0.4571320361 -0.4608119411 0.0187109264 0.4880960408 -0.7172690579
##
## -0.3714395091 0.1139592439 -0.5164711031 -0.8532499912 -0.0690781697
##
## 0.6563798286 0.0920861959 0.1317296611 0.7926875723 0.0232640018
##
## -0.4555124193 -0.3305018477 -0.3275044015 -0.4878209227 0.0910206992
##
## 0.0492353058 -0.1398994780 -0.0015766441 -0.6905491482 -0.8947302466
##
## -0.3953657333 -0.1478063945 -0.9487417531 -0.6839716274 -1.5779180137
##
## -0.8958487582 -0.7131271596 -0.6589291281 -0.2745117121 -0.2845761826
##
## -0.5798596600 0.3123735719 -0.0474013644 -0.2587076436 0.0888097880

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##
## 0.1587245490 -0.0526249952 -0.3439897563 -0.3123856596 -0.4067234275
##
## -1.5091809063 -1.4117825750 -0.7973371009 -0.6172905271 -0.4610427524
##
## 0.1488179758 -0.3076218090 0.6407140691 0.5795213582 0.4611052772
##
## 0.4254702476 0.0317023917 -0.1044704356 -0.8746741435 -1.2642352441
##
## -0.8388344092 -0.3766719309 -0.4131111044 -0.0791691717 0.1921179972
##
## 0.5701128657 0.6610833757 0.4178682421 -0.0509482888 -0.2767264008
##
## -0.5405494955 -0.8484076825 -0.4500402371 -0.3162325982 0.7448759893
##
## 0.1424431253 1.5058445093 0.7915838562 0.4661953146 0.1934452378
##
## 0.0455969681 0.0839369694 0.1506273945 0.0755323668 -0.4662779973
##
## 0.0011322637 0.3684027968 -0.1387693697 -0.3921179862 0.3208641901
##
## 0.4690148292 0.1016804509 0.2186002013 0.2646545901 0.1691188244
##
## 0.1299142395 0.1985143141 0.2663811061 -0.3852778640 -0.4492423425
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## 0.1572607989 0.2737120056 -0.2313991414 -0.2143899546 -0.5679270022
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## -0.7123875108 -0.3119445648 -0.4162285306 0.3139689138 0.3580439903
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## 0.9951507362 1.0065445344 0.2656235625 0.0380438172 0.0565012450
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## -0.4982232278 -0.1105052420 0.3331903871 0.2084817721 0.1904665030
##
## 0.2578440100 0.2737585008 0.6391992957 0.3029303903 0.7221275580
##
## 0.4974184202 -0.5717006169 0.6518555925 0.3994088705 1.0430882016
##
## 0.2791813956 0.5999744754 0.7973725658 0.1948995180 -0.3924756303
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## -0.1467663089 0.0832450519 0.4531987875 0.4909212988 0.6878210699
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## -0.2980041760 -0.5666392762 -0.0339596892 0.5504059109 -0.2007671435
##
## 0.4422497557 0.5794846640 0.3661773425 -0.2044402589 -1.1776051999
##
## -0.6849524640 -0.5324998725 -0.1165376988 0.5902504715 0.1369033884
##
## 0.2799994916 0.4474924220 0.3683651847 -0.7299802030 -1.2953149145
##
## -1.1312934105 -0.5786676586 -0.6333218933 0.3711337960 0.4035366261
##
## 0.0105594802 0.1312555837 -0.3284692775 -0.4816310334 0.1642933937

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##
## 0.8646642238 1.1285305352 -0.0466074144 0.2555117056 0.1169034571
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## 0.5090888260 1.8647403561 1.3351666630 0.6069669519 -0.2837402154
##
## 0.0077289102 0.3655991647 0.2747093311 -0.1428982593 -0.2868565641
##
## -0.2191315863 0.0019406135 0.0250560112 0.2002605277 0.2135820504
##
## 0.4928072630 0.9291646848 1.0219531393 0.5960212175 0.2098433823
##
## -0.2170953719 -0.2096344885 0.1001643850 1.4094828773 2.2880751407
##
## 2.0310604992 1.3414682548 1.8885944534 2.0538993597 0.7108714012
##
## -0.3268775712 0.3694993237 -0.0818607470 -0.2517079950 -0.8555519139
##
## 0.2075911261 0.3959699760 0.2149118385 0.5450543764 0.7693457613
##
## 0.8326555017 0.4077416434 -0.0905014110 0.3998487747 1.2205880740
##
## -0.2859052574 0.2152226891 1.1671107472 1.5148677843 1.1130637273
##
## 1.6800261450 2.0737375803 0.5025425624 -0.6027978350 -0.4639541293
##
## -0.2759358106 -0.2910319272 -0.7593893478 0.3584531023 0.1774797032
##
## -0.3424799614 0.4375184669 0.8277009684 1.1604226503 0.0838637619
##
## 0.3428610976 0.3627490301 0.2651756046 0.1141266371 0.2914192854
##
## 0.4758249170 0.5824193739 0.8192072357 1.0157973059 0.5118089638
##
## 0.2312869461 -0.1140792161 0.2945003715 0.6104839969 1.0806590185
##
## 0.4009355344 -0.1230916946 1.0845090334 1.9238946616 0.0743649914
##
## 0.2100019548 -0.5050718601 -0.6116292123 0.0332137056 0.5003152706
##
## 0.8429557860 0.5027464905 0.1060657869 0.2115146108 0.4167155584
##
## 0.8855516989 0.9730691233 1.0005428527 1.1260259490 0.1716601850
##
## 0.2276288931 0.3155015563 0.4266527969 0.5695326007 -0.0705145991
##
## 1.0450214974 2.1102025153 0.1821424793 0.2597026741 0.7793023676
##
## 0.2644268932 0.1773525658 0.0497348196 0.7143158330 1.3234482380
##
## 1.1030291245 0.6135112737 0.8311069192 0.8855556772 1.1020502583
##
## 1.2491077892 0.6133906530 0.4640469664 0.2318856983 0.6100276567
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## 1.1140035255 1.1938850402 1.1755745038 1.2534168313 1.6158568648

```

```

##
## 1.9355687838 1.5031460666 0.0726790500 -0.0466811941 0.7906910400
##
## 0.8846387703 0.3478006692 0.7008204826 0.5605310635 0.2624663472
##
## 0.9868144011 2.6000876091 3.5540291980 2.5993042866 1.8401952119
##
## 0.9475249012 -0.0542365495 -0.1653517414 0.8283889611 0.1599368602
##
## 1.5904657522 2.0977716955 1.8309138795 1.8950322062 1.6571615679
##
## 1.1492958933 0.6781393996 -0.1202930857 -0.0478256981 0.1229248844
##
## 0.4778774956 0.4764383726 0.7605586187 0.7762413771 0.6365892203
##
## 0.9629064476 1.6358167513 2.5853857697 2.8859985622 2.3584943650
##
## 1.6158167739 -0.0390699565 0.7287060124 0.5644144499 1.8133806976
##
## 1.7122009101 1.1802296932 0.8609129232 -0.1763022652 -1.2538768874
##
## -0.7181085205 -0.8242585866 0.0931023658 0.3712535004 0.0058081049
##
## -0.4626270442 0.2810465829 0.4236195592 0.6416541493 0.5153041279
##
## 0.5555300823 1.3178308253 1.1075030668 1.0834829037 1.8534573716
##
## 1.3676665091 1.1408587864 0.9192992783 2.5185429569 0.8653509860
##
## 0.0489496185 -0.3088368194 -0.3747968458 -0.3981816517 -0.1208479011
##
## -0.0776581375 -0.1037380300 -0.2653107103 -0.0110042463 0.0813537401
##
## 0.4996818759 0.4851567283 0.0056306433 -0.3165677964 -0.4135008249
##
## 0.3928358124 -0.0175158050 -0.3078509667 0.5516709695 1.5160899620
##
## 1.3709028538 0.8014187058 1.1299085392 0.6306160429 1.0666725009
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## 1.7423927624 0.1315520141 0.2031146334 0.5272613091 0.6668309661
##
## 0.4450741345 -0.0241114026 0.3305751310 0.6039790877 -0.1584562322
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##
## 0.1686680873 0.4627518449 0.4706058474 0.2695559659 0.4679634229
##
## 1.2349917771 1.6404564868 1.4042155072 1.1587146153 0.9219152498
##
## 1.6726246819 1.2675580842 0.4697474715 0.3103037344 0.2620442149
##
## 0.4100712700 0.3763122168 0.1856815938 0.3952276135 0.6171495070
##
## 0.3691450119 0.2921520812 0.2079845728 0.1237585596 0.3730514668

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##
## 0.0509198020 -0.2475343754 -0.2440956851 0.1645892095 0.5455203259
##
## 0.3652421097 0.2339216081 -0.1182530759 0.2455009496 0.3248404547
##
## 0.5009741301 0.9276240226 1.2496363898 0.9239938797 -0.1996878433
##
## 0.7827985145 0.0541325531 -0.4235989220 0.1390663406 0.6209353460
##
## 0.4422368219 -0.3470323019 -0.5898665360 0.1495111438 0.3286929096
##
## 0.0577426785 0.2166225572 0.6044828550 0.3075743617 0.6788575930
##
## 0.8067382686 0.2642660917 -0.1090285494 -0.0792398104 -0.1221561804
##
## 0.2636495290 0.2593790572 -0.2211443558 0.0550363067 0.6347213888
##
## 0.2137855817 0.1554665528 0.9402899440 1.0493228424 -0.0697280524
##
## 0.3593452288 -0.3220116841 0.5874255653 0.9764365613 0.5184627294
##
## -0.2810780180 -0.4813983353 0.7088287878 0.7680603301 0.0113905193
##
## -0.2083925569 0.5405154352 0.4787737439 -0.0103821143 0.4124835926
##
## 0.4365219708 -0.1735394684 -0.2493613798 -0.1670747653 0.0052969379
##
## 0.3751315438 0.3318227166 -0.1714124453 -0.3715490444 -0.7577827173
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## 0.2891047755 0.6553058180 0.6567307810 0.5689041882 0.4237596648
##
## -0.0433656034 -0.0521293884 -0.0090814490 -0.0933543781 -0.1830811922
##
## -0.1403774700 -0.0889699449 1.2228170107 1.0511760143 0.2299499073
##
## -0.3262763079 -0.9302630044 -1.1167465736 -0.5498968471 -0.4491226513
##
## -0.4917758857 0.3220297872 -0.0324426922 -0.3022485748 0.8055331121
##
## 1.2612529982 0.1879472536 -0.6928289615 -1.1930101422 0.1840464261
##
## 0.3167315203 -0.2368697343 -0.4967076090 -0.1266893768 0.6618807496
##
## -0.1297310807 -0.5382507549 -0.3252851059 -0.0852445065 -0.7538848724
##
## 0.2188127790 0.1718373836 -0.3605631043 -0.8757108210 -1.0639940259
##
## -0.9890106894 -0.6984645091 -0.5906529493 -0.4282113463 0.2633097266
##
## -0.1961691506 -0.7510584242 0.2772207546 0.8164832890 0.1260860345
##
## 0.2859241756 0.0160642696 0.1911531641 0.2068625099 0.2275945277
##
## 0.4093014940 0.6589854846 -0.0323781309 -0.0672809680 0.0425004409

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##
## -0.0866428394 -0.5580008221 0.1141375283 -0.4487676688 -0.4459162907
##
## -0.0251732972 0.0584432666 -0.6256742650 -0.7341868626 -0.4141512064
##
## -0.2048769393 -0.4289371892 -0.8850522881 -0.2912395790 -0.0027746616
##
## -0.0258397546 -0.2371606374 -0.3406250866 -0.5598866380 0.4985903534
##
## 0.5973984311 0.7558116485 1.3935596074 0.3521833550 -0.2389187492
##
## -0.4150207105 -0.4585606648 -0.5286366385 -0.4366625547 -0.0118689602
##
## 0.3232862000 0.5090397174 0.3962837232 -0.2285831357 -0.9768055012
##
## -0.7658141600 -0.4034869838 -0.4973325100 -1.2475061614 0.1215813706
##
## 0.8644078987 0.5699388487 0.0768128686 -0.2162070875 -0.6499752626
##
## 0.4902884059 0.7771287887 -0.7387670763 -0.3604834360 -0.6580233009
##
## 0.4448881628 0.3420579893 0.2205797041 0.2252584667 -0.2772895118
##
## -1.7831366793 -0.6843724892 0.0646791830 -0.0202745081 -0.4829969793
##
## 0.1467964844 -0.3727095945 -0.1345522676 0.1719977881 0.3857976929
##
## 0.9927149779 -0.5605469868 0.3404561130 0.5566773492 0.9540333362
##
## 0.2614103078 0.4615775737 0.5138163140 -0.8370895932 -2.1380258555
##
## 0.1527454663 1.3020181992 0.8169379369 -1.1635000496 -0.2481344702
##
## -1.4416869233 -0.7850137185 0.2735319768 1.4297822562 1.6034640414
##
## 0.2490842566 0.3202761416 0.1563002522 -0.9805898684 -0.7125959504
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## 0.9509481956 1.5105557798 0.5063542714 -0.3783350659 -0.3133046398
##
## -0.8813030903 -0.8447947653 -0.6864784548 1.8329986934 0.3999222438
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## -0.2448345348 -0.5814221123 0.8443176336 1.0205234937 1.5982236536
##
## 2.9364445472 0.4422056996 0.5074502456 0.5079582748 3.8559503348
##
## 1.9210976917 0.0754484656 -0.8485968734 -0.5829983568 -0.3378573805
##
## -0.3128615603 0.4387926927 1.9199403481 1.2287838365 -0.3331988937
##
## 0.8028721843 0.7434419801 0.8878803876 0.7055498674 1.3877415487
##
## 2.0913634541 2.0522013680 1.3368850107 3.1500271818 3.1032943662
##
## 2.0115804894 0.4306751492 -0.7477409820 -0.4032907562 0.2848681390

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```

##
## 0.2393512576 0.0921092981 1.1266355361 4.3523493353 5.7072597087
##
## 0.8676162514 -0.0768094694 0.0755689260 0.8322733093 0.7420241207
##
## 0.6395828869 1.6512772049 1.2840940396 0.2748454177 0.8452997819
##
## 1.3086137737 -0.2299514179 0.5276426792 0.2469078665 0.5548871552
##
## 1.2580548819 0.6597980194 -0.5429732147 -0.2823315073 0.5899363412
##
## 0.9634837503 0.5432406330 1.2712271187 4.3207016789 2.1386528805
##
## -0.5273520767 -0.2399448317 -0.2344547783 -0.2846264945 0.5862965590
##
## 0.5809193962 -0.7054496549 0.8303045119 1.2900122395 0.5335526399
##
## 0.1529286050 0.3669444088 -0.4346194513 -0.4593178274 0.7660904942
##
## 0.2429449133 0.1191686215 0.6555330786 0.3452469167 -0.3295972542
##
## -0.1616610075 0.4986063576 1.3280478859 0.5570954224 0.2606315135
##
## 1.0167523664 0.3868445305 -0.9560107266 0.2371873523 0.1490205326
##
## -0.3806805189 -0.1420951005 0.5273347271 -0.6105702422 1.3153383041
##
## 1.6278396611 0.5495749695 -0.4652213411 0.1345584017 -0.1511526656
##
## -1.4689082842 -1.1571308564 -1.1186851411 -0.0004699386 1.3655379392
##
## 0.8591457696 0.1664481288 0.6733557943 0.3639992272 -0.1501804561
##
## -0.2580772211 0.2178970724 0.3519343584 -0.2284372237 0.3683330689
##
## 1.2527282560 0.7235822020 -0.6079085084 1.1848038666 1.0082061981
##
## 0.2986369042 -0.1770027730 -0.1969603841 0.0855323730 2.2294246088
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## 1.5428517933 0.1863028644 -0.1454602792 1.3165657752 0.3126303960
##
## -1.0109270632 -0.7637193561 -0.0981339408 -0.6104190432 0.2822554110
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## 1.3993291634 0.9793688077 0.9185201680 1.6883114952 0.8251581360
##
## -0.2058450143 -0.3703958204 0.0939930984 -0.0634529774 -0.0884719402
##
## 0.6847692363 1.3213742791 0.8484565509 -0.6498388485 0.6344918726
##
## 0.9091505469 1.1101099110 0.8722906251 0.2323055098 0.4615738952
##
## 3.5635163346 1.7324156229 0.1766685172 -0.0489865174 0.3529027875
##
## -0.5994745891 -0.2292817448 -0.0932344522 -0.0756643586 0.2444731220

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##
## 0.8584805388 -0.1817303734 0.2799939884 0.9459212371 0.6219124006
##
## 1.0901495038 1.2472862648 0.5992672371 -0.1150956879 -0.0101635296
##
## 0.5433483003 0.2643379742 -0.3775546963 0.4566477890 0.3992145049
##
## -0.4466559637 -1.1585696581 -0.5048036929 0.3586802841 0.4611675676
##
## 0.4979530771 0.2129848908 0.1950515906 3.1556398462 1.6850548589
##
## 0.8193693557 0.6008962820 0.4027374339 -0.2323955249 0.3251237067
##
## 0.0033249673 0.1111742160 0.7987521286 1.1219550293 0.6682994597
##
## 0.3879282388 0.6229514559 0.8818309673 0.9682090120 1.2688174320
##
## 0.9478284195 -0.1621817345 0.0600384889 0.6677423315 0.9427073002
##
## 0.2526148874 -0.8183882165 0.3920285371 0.2219648797 -0.2714282054
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## -0.4235106191 -0.2529732999 -0.1317808751 -0.0414077651 -0.1968792736
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## -0.2762458527 -0.0991329428 0.7109617551 1.4757652396 1.6778613503
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## 1.3603836469 0.6350036033 0.1263145130 0.3057397953 -0.2184968435
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## -0.0664716226 0.0546257171 0.1903300552 0.2203395984 -0.0233329028
##
## 0.1018845179 -0.3386107158 -0.2913192433 0.1230101883 0.4055777193
##
## 0.6542612929 0.9822444669 1.0530257424 -0.0431173052 0.5120059411
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## 1.2330110229 1.0582236486 -0.0836613436 -0.1745262516 0.2165383337
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## -0.0262274990 0.0162223361 0.0498892481 -0.2349622382 -0.5054306127
##
## 0.1111399195 -0.1402488802 -0.6834557597 -0.0363956243 1.3602837604
##
## 1.8344597013 1.3284593623 1.3978438402 0.5720041321 -0.1949904905
##
## -0.0245077870 0.4279450101 0.3180881868 0.2452044342 -0.3263281436
##
## 0.3044626016 0.2405070178 0.2439873259 -0.2187617396 -0.3365175424
##
## 0.1577634617 0.3650481468 0.5461218560 0.6676730630 1.0162427618
##
## 0.7884386608 0.3209257018 0.0804486909 -0.3906084564 -0.0729490147
##
## 0.3808948705 0.2867104584 0.0982967044 0.2396213535 0.4823523232
##
## 0.3985272821 0.4949505574 1.1634347905 1.0814106963 0.2531458508
##
## 0.2151450153 1.0388045096 -0.0723650879 -0.1151728247 -0.1050379793

```

```

##
## -0.3015931049  0.4997223407  0.4978837013  0.2568326831  0.2996896856
##
## -0.1087657518  0.6470044850  0.9256780138  0.8627225470  1.0103118107
##
##  0.6856051708 -0.2099692245 -0.4221537741 -0.5638249650 -0.2482171232
##
##  0.4773536614  1.1764814183  0.8166400902 -0.1811922225  0.3450632318
##
##  0.6966480981  0.5561940611  1.7109207517  0.7186103520 -0.1181759883
##
## -0.0369870163 -0.5796735629 -0.5985871817  0.0085786823 -0.0742268438
##
##  0.4292376167  0.1462651300 -0.0733588338  0.9201316697 -0.6413647025
##
## -0.0188834131  0.2539243832  0.6263218385  0.1419939547 -0.7937612260
##
## -0.9071080446 -0.4819670302  0.7818166646  1.2163926567  1.0901564043
##
##  0.8269026586  0.6803507260  0.5030922595  1.0396887882  0.2898960788
##
## -0.2518431893 -0.0400443534  0.1881177909 -0.5246196543 -0.4560903135
##
## -0.5082830293 -0.0527079314 -0.2437668482 -0.5374793495 -0.4873572820
##
##  0.1417496856 -0.0035539002 -0.4684994279 -0.1556867290 -0.5437053732
##
## -0.8572841819 -0.4049361460  0.7209853656  1.0339466388  0.8293419379
##
##  0.7030367081  1.0263865392  0.4387173010  0.0909913796 -0.0284395076
##
##  0.4534340643  0.9880083689 -0.2650251928 -1.7674922965 -0.6472258729
##
## -0.0205228598  0.0555990285 -0.0706541930 -0.1690000566 -0.1588118856
##
##  0.0358886133  0.2259505715 -0.1213457155  0.5682682604 -0.5179223590
##
## -0.8564805912 -0.2323899431  0.3077232279  0.4313974994  0.5602798483
##
##  0.7015007656  1.0058179465  0.0126267459  0.5045452131  0.7583183621
##
##  0.8656006100  0.6447723405 -0.0669043396  0.2053191044 -0.4429232275
##
##  0.4961602472  0.5271738994  0.4219535652  0.3913792969  0.4029491434
##
##  0.3035108627 -0.0629808510 -0.4939914487 -0.9645382479 -0.3987748009
##
##  0.2352261956  0.1336140554  0.4195601943  0.4844153801  0.3651967488
##
##  0.9860365143  0.8536954219  0.7515580870  1.0175725863  0.8702304214
##
##  0.4206186737 -0.2320898274  0.3726572374  0.3879931000  0.6844996670
##
##  0.6710014233  0.4722973277  0.2822215603  0.2405768081 -0.1318735737

```

```

##
## -0.7711036917 -0.5343323995 0.1193735581 -0.0720691741 -0.3623683044
##
## -0.4440171144 -0.3616057616 1.0240037723 0.4394240255 0.4485264025
##
## 0.9190339284 1.1307432220 0.6296014803 0.5888919356 -0.3282748908
##
## 0.2351820153 -0.2430321290 0.4254129863 0.1438031331 -0.3900101219
##
## -0.3178306431 -0.1960206619 -0.0252443842 -0.0898743801 0.1657028009
##
## 0.2097020819 -0.2861664937 -0.1814333963 0.5110475041 0.5660256583
##
## 0.7764167439 0.7620867477 1.0544027910 -0.0403696146 1.1640162229
##
## 1.0656921764 0.8438053101 0.7069861889 0.0775348353 0.3712296549
##
## 0.9810928351 1.4981832665 0.7974590344 0.2402035675 -0.0851432494
##
## -0.0102814509 1.3367461968 0.9386857758 0.2452090416 0.0969432671
##
## 0.2986128041 -0.0163261683 0.6358852670 0.7937814083 1.1152046769
##
## 0.6806408315 0.6600625659 0.4654254894 0.7591479951 0.9567361175
##
## 1.0711425726 0.2485015744 -0.0717445919 0.0986113145 -0.2239827918
##
## 1.0475854325 -0.1579104103 -1.1361795673 -0.7336993649 0.1702313114
##
## -0.9128794568 -0.0744804775 -0.0355123759 -0.7237762080 -0.4555967964
##
## 0.0927897772 -0.0155347269 0.1480450948 -0.1355017486 -0.2202638794
##
## 0.3106593743 1.0577816839 0.3874356055 -0.8648683273 -1.2546361382
##
## -0.7756117384 -0.6349656394 -0.0047323809 -0.6921443436 -1.0989916692
##
## -1.7407235645 -1.1841306887 -0.4219594153 -0.0876288243 0.2658844099
##
## -0.0879925710 -0.3574031129 -0.0920818381 -0.4155567480 -0.3306047349
##
## 0.0751787022 -0.1024148076 -0.9030585168 -1.3566843706 -1.5337543819
##
## -0.7912584127 -0.1164993425 0.2918723989 0.1903509114 0.4697677803
##
## 0.1760944110 -0.2964385799 0.0103549787 0.0984917867 -0.6355089822
##
## -0.1047517316 -0.0564226833 0.1043065499 0.3484329359 -0.5163721359
##
## -1.2391804598 -1.3788927260 -0.7311884360 -0.3259775426 0.0219048185
##
## 0.1716964369 -0.0989939171 0.4533887497 0.2783192554 -0.0256113966
##
## 0.0462356495 -0.2347576173 -0.6701495150 0.0119372419 0.1737112911

```

```

##
## 0.3330859926 0.1751942316 -0.6470238675 -0.6314455382 -0.3539319157
##
## 0.0222966856 -0.5007536959 0.0806582121 0.2235444494 -0.1271003450
##
## 0.5717323078 0.4521607719 0.4240605262 -0.3953355949 -0.3244828629
##
## 0.7298560800 0.1917126293 0.2720205973 0.5510529390 0.1891489503
##
## -0.0371209017 -0.2382030992 -0.4552550024 -0.9389920835 -0.0429477115
##
## 0.2229051095 0.0279216880 0.8473649143 0.6809239953 0.4577680491
##
## -0.1696382079 0.0691548349 0.8939162318 0.8438328169 0.6639781488
##
## 0.0816421713 -0.3849784251 -0.7010816671 -0.9505926920 -0.5651981411
##
## -0.0798630102 1.0860202485 1.0728871359 -0.1040456615 0.4042056201
##
## -0.1575779008 -0.1866633200 -0.1609353688 0.3718877912 0.1792771043
##
## -0.1267491427 -0.1348727017 -0.3202756242 -0.5452725157 0.1352583920
##
## 0.6643620270 0.5784150273 -0.4226172249 0.4735781166 0.9404976161
##
## 0.7789378644 -0.2115882898 -0.1580541282 0.4275945457 0.6119744928
##
## -0.1294189143 0.2974546980 0.1790457299 0.4562932860 0.3041114647
##
## -0.0270686019 -0.1730950739 0.4801354597 -0.0891821979 -0.0310140646
##
## 0.3838031180 0.4491839482 -0.0644378907 -0.1855327755 0.3863723377
##
## 0.3296385124 0.4157867508 0.3391094814 0.0296325035 0.0475081724
##
## -0.0590244846 -0.0017708960 0.0055613384 0.3858881460 -0.0039946309
##
## -0.5359353144 -0.3062816262 0.1789989783 -0.1542235791 0.2599950546
##
## 0.4292157406 -0.0839652564 -0.3354875456 -0.3579782401 -0.5936219120
##
## -0.2257875033 0.4499267398 0.9411458131 0.8040812684 0.3653683944
##
## 0.2897826877 0.4301800283 0.0583429279 0.4280555596 0.0218423428
##
## -0.7023459326 -0.7158005017 -0.1191725521 -0.1051160181 0.0490888570
##
## -0.6081406370 -0.5888552475 -0.1208620087 -0.7251581450 0.2125709970
##
## 1.7623438518 2.4791017767 1.8521528886 1.2119228521 1.0023609504
##
## 0.6453859968 0.4827803585 0.7685876615 1.0187647401 0.6535546222
##
## 1.6179482991 1.4142570922 0.3074106536 0.1703758164 0.4094461793

```

```

##
## 0.0427382783 0.3888968370 0.2411654362 0.1236872165 -0.2952542945
##
## -0.1861241925 -0.4683863961 0.3119292176 0.8552842257 0.3420772638
##
## 0.3395114420 0.9116238849 1.9217095118 2.4128135196 1.6092966812
##
## 0.8868682145 0.7127312210 1.6912910413 0.5057449494 0.0338649774
##
## 0.9898314628 2.1943143429 1.9273974616 0.6312533901 0.3519415896
##
## 0.8434988975 1.3442967553 1.6260956412 0.4043768895 -0.4814757383
##
## 0.0406874397 -0.2870600593 -0.3311289273 0.8672615043 0.3892313691
##
## -0.0093628172 0.5072934408 1.1371838314 1.3944891761 0.9388336968
##
## 0.3382266278 -0.1246052710 0.4106815338 0.4452392251 -0.0030099700
##
## 1.3662710534 1.8241828973 1.3263107888 0.9657657921 0.7592553230
##
## -0.3731815295 -0.6849411228 0.3822981643 0.7542800571 0.4105207179
##
## -0.5521185061 -0.6343920533 -0.1961551794 0.9649895298 0.3943051329
##
## 0.0170185053 0.6597542203 0.9343655962 0.8183024836 0.5220665486
##
## 0.2427452416 0.2579756933 -0.2885553279 0.1474569285 0.1964339449
##
## 0.7548817076 1.4866055001 1.2849540815 0.9027871690 1.0334856281
##
## 1.0962303589 0.7323634344 1.5327261330 1.6795670579 1.0489041822
##
## -0.5956586357 -0.0693832260 0.4014267036 0.8715562651 0.6363929793
##
## 0.2945510426 1.0074887219 1.6218162724 1.7199879857 0.9979387293
##
## -0.1431522796 0.2933732008 0.3991554097 -0.5217120169 -0.3297415904
##
## 0.2645219226 -0.2527204230 -0.4155391586 0.8155123926 1.5343267576
##
## 1.2463639578 0.8603083936 1.2063575032 1.7276226714 2.1184318548
##
## 2.2432278563 1.5931896930 1.1262243408 -0.1645805763 0.4632140982
##
## 0.7609598201 0.5893732394 0.8810170553 0.3204830815 0.7320135384
##
## 2.0047093443 2.4238224271 1.1222104385 0.0115533456 0.2258178640
##
## 0.2183195006 0.1429283503 -0.1569182544 0.2236218598 0.1957615267
##
## 0.3501589206 0.8067817043 1.0876399068 1.1618020751 1.1415601751
##
## 1.3276903323 1.7015205877 1.7988577984 1.4089311530 0.5668690441

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```

##
## 0.9667491508 1.6881167072 1.2813776543 1.4058683862 2.7604957731
##
## 2.9805353791 1.6845883473 1.8703663810 0.7347040475 0.1319612599
##
## -0.0961403755 -0.1040256615 0.7650751197 0.6477232115 0.2257309376
##
## 1.1657168416 1.0715053321 0.6027885336 0.7776168977 1.2377770901
##
## 1.6532444410 1.6321141604 1.8081636484 0.6166845101 -0.9590393072
##
## -0.5383206459 -0.1773662781 2.8725783810 5.3478073608 4.7535325381
##
## 4.0350089874 3.1499191365 1.3777585538 0.7026542839 -0.1642864332
##
## -0.5432697974 0.2717851358 -0.0190944979 -0.1436770737 0.0592677985
##
## 0.8477486579 0.5322658786 0.6367073171 0.7544390584 -0.0854983483
##
## 0.7576705261 1.3168702194 1.3821757054 1.4009614517 1.8650055108
##
## 2.6606578608 1.6351346871 -0.9593303683 -0.6274961532 1.3584988347
##
## 5.1438308810 4.8906547349 2.6025310665 1.5696681381 0.9816988790
##
## 0.4557568215 -0.6947699733 -0.9258273018 -0.9446502599 0.0976045350
##
## 0.3916763756 0.6235620669 0.3748300495 0.3161181723 0.8883820350
##
## 0.3316627518 0.2629761588 0.8653751096 0.5981019852 1.0985283159
##
## 1.1807989144 0.9983679681 1.2231251013 2.1991237806 2.2927686748
##
## 0.7332307134 1.9370140201 0.1615318437 -0.2804445187 -0.2699276518
##
## -0.0911852927 -0.2636971833 0.3200432143 -0.1140239436 -0.3611643442
##
## -0.0122430313 0.3472104978 -0.0032408350 0.3605292398 0.4614531610
##
## 0.1048969448 -0.0732843799 0.6510034111 0.3814558014 0.1310278150
##
## 0.4380986967 0.2472757797 0.4767625209 0.8280689856 1.2481795904
##
## 1.1555588553 0.8136132086 0.7715694348 1.4557979803 3.1468475088
##
## 1.8556100520 0.3171179264 0.1233486362 0.6819676907 0.7556563721
##
## 0.2036289491 -0.2925177471 0.2935540039 0.6300632256 0.1712331039
##
## 0.1831624713 0.6734437130 0.3178250520 0.1472870676 0.4307724543
##
## 0.2638836708 -0.2007571612 -0.2589904772 0.3989202085 0.1556403810
##
## 0.7455651266 -0.6968276717 -0.0239783935 0.7332590994 0.9625456946

```



```

##
## 1.5248430435 1.4692320624 1.1338719189 1.0282018124 1.1751075494
##
## 0.6578537751 0.2953085169 0.3579571811 0.4440387021 0.2151896680
##
## 0.2091975621 0.2703253204 0.2192560910 0.3444491932 0.5074614645
##
## 0.5924670105 0.8743759273 0.7181868688 0.6947295061 0.6952029905
##
## 0.4562830022 0.0836651993 0.1001654486 -0.3358804042 0.3917673226
##
## 0.2647403711 0.0356378951 0.5058818935 0.8359649976 0.7366342637
##
## 1.1276120087 1.2445194588 0.7954674736 0.5138176947 0.5354958060
##
## -0.1940988150 0.0789767874 0.3388822707 0.2931272751 0.2200560812
##
## -0.2609086046 0.2964374555 0.3695600749 0.2275028045 0.4582955626
##
## 1.2853353714 0.9226009729 0.7800898334 0.9810963497 0.8408208994
##
## 0.0652739615 -0.8360330393 -0.8393992009 -0.1854337774 0.7794773009
##
## 0.8193876927 0.2936521714 0.3484058600 0.4626615369 -0.1028541144
##
## 0.3205829559 0.6839507451 0.2759017671 -0.0012875616 0.0821632355
##
## 0.1637067720 0.1198700153 0.1152328751 -0.0684299129 0.3495837228
##
## 0.4528850882 0.4346151214 0.3391234149 0.1625075691 -0.3227587204
##
## 0.0635240729 -0.1211860143 -0.5906177141 -0.5074164310 0.9496661774
##
## 0.2598926399 0.8015042391 0.9154811712 0.6112394941 0.4002688520
##
## 0.4228222219 0.0011768391 0.0166275525 0.4169172891 0.5647558341
##
## 0.2861144311 0.5747476135 0.2197831185 0.3019305073 0.2366824493
##
## 0.0444413618 -0.0314675500 -0.0246585798 0.7964986472 0.8654034982
##
## 0.2100021222 -0.5245527470 -0.4001538555 -0.5255877815 -1.1919100365
##
## -0.9565091703 0.0697288285 1.2038769900 0.3158768317 0.0765091150
##
## 0.3323790952 0.5766834768 0.4586797759 0.2157335740 -0.4482030123
##
## -0.0414860880 0.9208708829 1.0730507913 0.4158275795 0.2967840073
##
## 0.1153218031 -0.1997722858 -0.5943608021 -0.5263504460 -0.3797524950
##
## -0.4416069825 -0.6042298788 -0.6214701955 -1.1057408126 -0.9201400115
##
## -0.1029771008 0.5385231914 0.4310338650 -0.3217641894 -0.3257310827

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```

##
## -0.0911281242  0.3733110272  0.4452896901 -0.1225389053 -0.4105323276
##
##  0.3386112865  0.9022914367  1.4940650680  0.3271447227  0.2984548766
##
## -0.1925051689 -0.3177355410 -0.3467468759 -0.7311283750 -0.4283378801
##
##  0.1860852693  0.2693729004 -0.9958935981 -0.9287054501  0.0330371484
##
##  0.3990892891 -0.2656196280 -0.6014597063  0.3546291893 -0.1312396040
##
## -0.2709210817 -0.2733110813 -0.5144899519  0.1990422881  1.2754936864
##
## -0.4073454862 -0.0566786484 -0.6309645250 -0.6140110636 -0.3595297621
##
## -0.2324021191 -0.0635280791  0.1848696901  0.2316948850 -0.4087081794
##
##  0.0521833610  0.6220067910  0.5079556367 -0.1312340241  0.3271885585
##
## -0.3146279449 -0.7326441058 -0.7796915886 -0.4486403540 -0.1589837306
##
##  0.4118539251 -0.5507225162 -1.0328225681 -0.6270548831 -0.0593402564
##
##  0.0086631277 -0.2459853896 -0.3998584354 -0.8798828233  1.0594065055
##
##  1.7273102594  0.9496336169 -0.3798970107 -0.6673441306 -0.6411557459
##
## -0.7768300370 -0.9840392152 -0.4130883958 -0.7969191226 -0.7282507484
##
## -0.5281849007 -0.4887491950 -0.1855748288  1.9367930917  0.7957981536
##
##  0.0481423509 -0.5951754715 -0.6915096161 -0.8462473265 -0.8255021629
##
## -0.2813236397 -0.3277685499 -0.4416522194  1.7813246828  0.4331584478
##
##  0.2287014780 -0.1995250082 -0.8078348350 -0.7312882311 -0.3030061100
##
## -0.8675095074  0.4696965078  4.2668226653  0.7754962659  2.2143411387
##
##  3.2162907671  3.1063737893  2.2707747329  1.2949242569  0.0504451404
##
## -1.0038253916 -0.8262695389  0.7761493775  0.1789635539  0.6562459656
##
##  3.2260373685  0.8419553790  1.2651933091  1.8242683762  2.2983637173
##
##  1.9859011717  3.2656418003  2.7476067925  0.8430644397  0.1956154530
##
## -0.4768383360  0.4399233755 -0.5440668802  0.1121517226  0.3268054106
##
## -0.7861986010 -1.3015459635  0.7732404800  0.6397930003  0.6081266210
##
##  1.8102470253  3.7599107592  0.6764388496 -0.3990684464 -0.5538927953
##
## -0.1496506393  0.9137067652  1.1965763526 -0.2542644416  1.6545539962

```

```

##
## 2.1850797221 1.3015271436 0.0313731795 0.3311979738 -0.5892152651
##
## 0.3635417879 0.6961250887 0.0915780976 -0.3623823303 -0.7429750070
##
## -0.9410916900 0.0768483700 0.1850696605 0.2670560181 0.4594515847
##
## 0.1870737549 -0.9207543701 0.1711329086 -0.2530434139 -0.4908775515
##
## 0.0584625207 0.2427261581 -1.1334233860 3.4163029363 3.4844587979
##
## 0.8929627985 -0.6859533521 0.2939217268 -0.2294515810 -0.3913736658
##
## 1.2517814257 2.4096224481 1.4331800638 0.4671672769 -0.1474392855
##
## -0.3844604928 -0.4019744259 -0.3635582179 -0.2078101053 -0.4169006098
##
## 0.1744126908 0.6734340333 0.3245987219 -0.1043697310 0.8230404919
##
## 0.3657954710 -0.2419185799 -0.5606466485 -0.4882929693 -0.1378620386
##
## 2.8135190606 2.7297307328 1.0849106021 -0.0814816534 0.2346424968
##
## -0.3473497772 -0.1554205290 0.1406171661 -0.2766534136 0.1058962126
##
## 1.1650328922 1.5716522783 1.0300007866 0.6295886457 0.0882931852
##
## -0.3080804912 -0.1372097475 0.3171360614 0.3965555421 -0.0836520895
##
## -0.0797810289 0.1605876552 0.2450745583 0.1028665568 0.6211001591
##
## 0.5134719314 0.3651323803 0.1498156820 -0.1718338445 -0.0255395997
##
## 1.8893404639 2.2697123244 1.6266371532 0.9743995719 0.3773887612
##
## -0.0850840494 0.9254226497 -0.1305697508 0.1464000138 0.7732962624
##
## -0.0246704137 0.2914570971 0.8997040704 0.8493201886 0.8421673182
##
## 0.6590211308 0.1085459069 -0.4314494101 0.2238103697 1.5751070443
##
## 1.4267436781 -0.3660118500 -0.2284464927 -0.1186322284 -0.1260862223
##
## -0.1052716362 -0.0069531019 0.3111150423 0.3687116442 0.4064785672
##
## 0.1270853841 0.0714798134 1.3766933124 2.0104776950 2.1462141765
##
## 2.0158851896 1.4091586244 0.8110047113 0.9136580173 0.8825619204
##
## 0.1403335202 0.3641821407 0.5215024220 0.2991411003 0.5005907200
##
## 0.6932324933 0.8225601736 1.2343793759 0.8738597969 -0.2978773670
##
## -0.2011429971 0.5960837165 1.1344521267 0.5464904598 -1.0257006510

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##
## -0.4084039055 -0.4165959238 -0.2705035296 0.1478379624 0.3415017348
##
## 0.0367379484 0.4896738744 0.2053181956 -0.1435432587 0.0181555395
##
## 0.8016796142 1.5196446049 2.5616640221 2.6601874656 1.4241485819
##
## 0.8889785372 1.6563524979 1.3211857932 0.4708117142 0.5049414035
##
## 0.2310880994 0.0076716990 -0.3285521946 0.4874800567 0.7400383211
##
## 0.4667452204 0.1800220313 0.7219832091 2.0489016986 1.2717360193
##
## 0.4287095302 0.6439665731 0.6614682676 -0.1453216825 -0.7447271856
##
## -0.3373678928 -0.6621755591 -0.5358902716 -0.2413084776 -0.0913369217
##
## -0.2550503365 0.2132426086 0.1412819130 -0.1166882187 0.1356464085
##
## 0.9235997243 1.4487617071 2.2642731117 2.1297185317 0.7430747062
##
## 0.5016405988 1.4313024088 1.3734577222 0.4004162719 0.3315699968
##
## -0.3903496659 0.5933057789 0.9995152392 0.5614005172 1.0648228466
##
## 1.5296134078 1.2756407755 0.8886850920 0.8461565612 1.2226621483
##
## 1.0408850030 0.2330101464 0.1740923387 -0.1504806290 -0.5750313809
##
## -0.0488889194 -0.0228647134 -1.2624251946 -0.5781349402 -0.0286634514
##
## 0.0211659310 0.0057752605 -0.3135107601 0.4379008603 0.8914265015
##
## 0.5476441575 0.7797172746 1.0262241561 1.3404242455 0.6705314670
##
## 0.4436690586 1.1417130491 1.5821968284 -0.0243414010 -0.0600596929
##
## -0.0491540217 0.6761159664 0.5997817948 0.5002348758 0.8070854059
##
## 0.6959939326 1.1187345560 0.9850289735 0.9164535890 0.8785883645
##
## 0.4068158735 0.0117333354 0.0108465020 0.0289778277 -0.6016417480
##
## -1.0997385761 -0.6771926874 -0.7499231613 -1.6486319445 -0.2446063941
##
## 0.4915906632 0.5167900132 0.2952386124 -0.4919480676 -0.1090286187
##
## 0.8216785108 0.3945045873 0.6991457286 0.6971992900 0.5473256542
##
## 0.3027005240 0.0761491035 -0.2287813750 -1.0067264107 -1.5322406408
##
## -0.3240298130 -1.0555592029 0.4957720022 0.1168402572 -0.1733584004
##
## 0.3526261961 0.2849526494 0.6034928127 0.4236618312 0.5348827979

```

```

##
## 0.9556241052 1.0483030974 -0.2994278163 -0.3055204746 -0.2057416835
##
## -0.3624687649 -0.6368179653 -0.9743512638 -1.1550335379 0.2780609825
##
## 0.8617633662 0.6694021325 0.1986721063 -0.0742966808 -0.5798972156
##
## -0.1078950525 -0.6010842087 -0.7587051133 -0.3888495069 0.1361228530
##
## 0.2671976721 -0.5856965054 -0.6728779916 -0.6177386631 0.3330001142
##
## -0.1550935926 -0.5229222510 -0.2519608518 0.1344767865 0.1519382872
##
## 0.0184436312 0.5827830314 1.3407951115 1.4431387966 0.2117224599
##
## -0.4357242437 -0.7512290791 -0.6248485576 0.2879829456 0.5991144381
##
## 0.7033551482 0.7376926939 0.6786093744 0.2772258742 -0.4904019092
##
## -0.2377067258 0.1094687879 0.4826589328 0.7504050842 0.4215527491
##
## -0.3123214850 0.1762441276 0.1601801403 0.3540115604 0.2347444799
##
## 0.0733939382 -0.0384917052 -0.4047757655 -0.4352843161 -0.0544972210
##
## 0.7374363801 0.4230218086 -0.3407570654 -0.6894754177 -0.6637518651
##
## -0.4486006569 0.0961956643 0.4744059731 0.6538349616 0.6575798716
##
## 0.5577318791 0.1418275515 0.4835838105 0.5608713229 0.6645381531
##
## 0.8625648871 0.7115071547 0.9274029466 0.3828134112 0.5744248288
##
## 0.7808754821 1.0341722037 0.6960703225 0.3031971391 0.4115078343
##
## 0.6920861483 0.2036991235 -0.4403554923 -1.1050329091 -0.7431743310
##
## -0.1353940535 -0.1394594396 0.1971142626 0.3298328024 0.2795957916
##
## 0.2442433237 0.8391546569 0.4357050966 0.3753289860 0.8222065899
##
## 1.1268249321 0.8230272570 -0.2440397337 0.5857923102 -0.0824768666
##
## 0.5083923862 0.3898280191 -0.0223363512 0.0558756796 0.6615316776
##
## 0.9851223548 0.2751564463 -0.3384156282 0.0011284433 0.1898907674
##
## 0.1354034495 0.1537296581 -0.2744079751 -0.2935045413 -0.2193748771
##
## 0.6649981651 0.2314085970 0.4517859285 1.2441547798 1.4975084428
##
## 0.1280825418 -0.0294277869 0.8968021959 0.6259732745 1.0085471777
##
## 0.3593538000 -0.0807988289 -0.0757843789 0.2332063304 0.2406833913

```

```

##
## 0.7404161755 0.3219166743 0.0240946187 0.1455613664 0.2600498446
##
## 0.8249489701 0.8078210711 -0.4921725288 -0.2475147094 0.1020142040
##
## -0.1290675133 0.0637687694 0.6593569615 0.8531346892 0.0253098879
##
## 0.2824994713 0.9315327037 1.0997007304 1.2037395559 0.3959268960
##
## 0.2292216905 0.0887192946 -0.1083296451 -0.1147486668 -0.9755125381
##
## 0.2256469498 0.1048472119 0.0576227321 0.1874831054 0.4159852386
##
## 0.7329079509 -0.0130599952 -0.4725528904 -0.4883058446 1.2541965734
##
## 0.2891869744 -0.0434094725 0.0652640113 0.1566884435 0.4421044977
##
## 0.6329132958 0.6580284407 -0.3089676100 0.0154594277 0.2950998109
##
## 0.1444873601 0.0141529465 -0.0860811507 -0.6826122900 0.0732064865
##
## 0.0681115339 0.3858741634 0.4721375082 -0.1845573934 -0.3872821104
##
## 0.2036678164 -0.1993058150 2.0563512084 0.8184303473 -0.3897237228
##
## -0.4939344799 -0.1460115991 -0.4561971310 -0.5585708192 -1.1199861759
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## -1.0101333474 -0.2459544034 0.4532291303 0.4967617934 0.0761780828
##
## -0.0549201672 -0.1800311932 0.0138435461 -0.1922547824 -0.1355982293
##
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##
## 1.9676057882 1.1598597004 -0.3241239251 -0.9514488359 -0.6094582311
##
## -0.5828451331 -0.5832954745 -1.0378910411 -1.8604317381 -0.9023864192
##
## 0.2188663796 0.4240144262 0.1828011745 -0.1486816207 -0.3518300982
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## -0.0625037741 -0.3082095436 -0.3926768065 -0.1080331925 0.1093069173
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## 0.0487044916 0.6292421589 0.2506469101 0.1964193531 -0.0090393950
##
## -0.1962258829 0.1408474425 0.6923619694 0.3346954430 0.0894757040
##
## -0.2848436926 -0.1641610402 0.6001528469 -1.3391146661 -1.3092419168
##
## -1.2755188397 -0.5142082936 0.4723289435 0.4145538469 -0.1323551772
##
## -0.4333497040 -0.3533492172 0.1895451131 -0.2880184593 -0.5151615860
##
## -0.2378699488 0.0094089912 -0.0167325263 0.0830591921 -0.0702956618
##
## -0.0697194726 -0.3987730270 -0.4550812732 -0.1070215340 -0.4658161037

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```

##
## -0.5829173371 -0.6012655020 -0.4638231826 -1.6790455778 -0.9870361991
##
## -0.4978802150 -0.4363060797 0.1329420996 0.3820810367 -0.0320112738
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## -0.4947895701 -0.1886892755 0.3525540497 -0.2150892921 -0.7326121964
##
## -0.4861544982 -0.3047194059 -0.6572742507 -0.7583037819 -0.3197733735
##
## 0.5648623082 0.5319498760 -0.1268828106 -0.5366419015 -0.9430233944
##
## -0.3353279921 0.3173018899 0.3009526643 -1.0291095495 -0.3531540861
##
## -0.7158845345 -1.0399463724 -0.6634586815 0.0952569848 0.1512321212
##
## -0.5236273357 -0.8100738905 0.3684664090 -0.1120344462 -0.8049028650
##
## -0.5964065272 0.0897341645 0.1593425572 -0.1000344923 -1.3890048605
##
## -0.9373547902 -0.2351627800 0.0133248021 -0.4273649448 -0.0162228237
##
## 0.2430322319 0.1981560927 -0.2330748274 -0.2106448468 -1.4028645019
##
## -1.6822311506 -0.8066161031 -0.3486803245 -0.3957444785 -0.6421907714
##
## 0.7175422992 0.0502787529 -0.5097158466 -0.1813959953 0.2415884117
##
## 0.2540411992 0.1678106954 -1.2103719660 -0.4795419268 0.0449600267
##
## 0.0286425502 -0.1799784169 0.3018698278 -0.1922395980 -0.1319847810
##
## -0.8513684598 -0.8596026815 -1.1418571386 -1.3162221278 -0.5519215134
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## -0.4406754501 -0.6837124845 -0.7735148394 -0.0817226227 0.1907546109
##
## -0.1153832532 0.1639443700 0.1483505731 -0.1445575761 -0.1535503552
##
## -0.1515598789 0.1437243166 0.2060196558 0.1993382894 0.4453770911
##
## -0.2541761807 -0.2375818397 -0.5825810716 -0.7473414830 -0.7880791091
##
## -0.7705922237 -0.1710315376 -0.0679884889 -0.4972029884 -0.7232234523
##
## -0.2009517942 0.0550850054 0.0406870963 0.3945478169 0.1320909589
##
## -0.2335018371 -0.3480543139 -0.1864070462 -0.0082224534 0.5148017523
##
## 0.9668891403 1.0247623930 0.5089662846 -1.2277498422 0.1140871597
##
## -0.3313044939 -0.5777789874 -0.2545943981 0.2906964453 0.3801241348
##
## -0.1431246206 -0.4660397988 -0.0825475659 0.2210254358 0.2238426271
##
## -0.0035368303 0.4374429315 0.6398637076 0.6703680563 0.1306775548

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##
## 0.0407891951 -0.2701253872 0.1980421338 0.5133502694 -0.0044363219
##
## -0.0491662351 -0.5686508713 -0.3018238979 0.1243497202 0.4113322650
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## -0.0057159671 -0.1774907792 -0.2870084247 -0.2755261691 0.5970365801
##
## 0.3463831274 0.1174126448 0.7030789930 0.7829737240 0.0627052801
##
## 0.3282694114 1.6361889210 0.6269878441 0.0157237950 0.5341371265
##
## 0.8818592573 -1.0464433809 -0.9189846274 -0.1731497308 0.3103354238
##
## -0.2201064131 0.1628032295 0.3836858389 -0.0679565248 -0.3021958071
##
## -0.5261920413 -0.1189457510 0.6827428128 0.0343389517 -0.4476434174
##
## -0.7056487229 -0.4901252510 0.9115028672 0.4887311089 -0.1545601081
##
## 1.2089863393 2.3146059266 1.7637707489 1.0138140079 0.8552700447
##
## 1.2140934688 -1.8353902904 -0.6900781751 0.0999388540 0.9876472992
##
## 0.5131289728 0.2828437281 0.7276164332 0.7243446709 0.0711294167
##
## 0.5915386704 -0.1502623039 -0.6905346680 -0.2594722670 0.7792073062
##
## 0.0420123222 -0.2912374404 -0.3121748595 -0.4152798753 0.2027190049
##
## 0.9198865858 1.1052567621 0.9759338942 1.4301035509 1.7135450601
##
## 1.9328106879 1.4660183025 0.4271298370 0.4648960373 -0.4655610922
##
## 0.1264854902 0.4474100180 1.0239996631 1.1762153129 0.3805831850
##
## 0.5082196478 1.3034966849 1.5074687301 0.6130264169 0.2160233288
##
## -0.3415322497 -0.3897757517 0.7048425380 0.2124709204 -0.1180218540
##
## 0.1964652052 -0.0785925119 0.5213967334 0.8349743883 1.0237335037
##
## 0.9955883116 0.8501008590 0.9166673639 1.3304583918 1.3628254380
##
## 0.3449651590 0.1570782137 0.1724420230 0.4366548085 0.4214441295
##
## 0.8030965218 1.2276618242 0.5451758388 0.5051674030 1.2509324715
##
## 1.5292032742 0.5846572450 0.2317279059 -0.0280760875 -0.3659156763
##
## 0.0614654769 0.0160995243 0.0542144393 0.6093147661 0.3461678833
##
## 0.6932877564 1.0042732777 0.9010023718 0.7249373735 0.4749752217
##
## 0.1607933690 -0.1400607261 0.8241371186 1.7500632634 -0.0759808588

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```

##
## 0.1309218523 0.3128931831 0.9109141285 0.8319968226 0.6512376285
##
## 0.7700493370 1.0134353975 0.8727501192 0.1956778492 -0.1329011603
##
## 0.3014689417 0.6261128739 0.0032727700 0.3614099385 0.2216031557
##
## 0.1104614842 0.1380438043 0.6021900325 1.4363400509 1.2862370707
##
## 0.9569103143 1.2546858927 1.6879260104 1.4820214975 2.2752016964
##
## 2.8716635328 0.7987047845 1.0072374748 0.9772263799 0.6748725495
##
## 0.3615820424 0.4221987056 0.3405347716 0.0150863841 -0.0502081053
##
## 0.5513004386 0.8393857550 0.2500742096 0.0662788457 0.1560958749
##
## -0.0195904371 -0.1599499441 0.1712477172 0.5679990073 1.7643068403
##
## 1.8019583652 1.4932411214 1.7868875188 2.5399138355 3.5114428157
##
## 3.1988871329 0.6509988455 0.3607967676 0.1541566002 0.4625110460
##
## -0.2788865142 -0.2801101636 -0.0335875304 -0.1706175237 -0.5710463063
##
## 0.7415501005 0.6162490788 0.5036807421 0.4801148106 -0.0252104245
##
## 0.3061666415 0.3452015336 -0.3269340084 -0.3618346710 0.5343152553
##
## 0.9885574038 1.4021065804 1.1939862616 0.8316598282 1.2435789708
##
## 1.5946150805 1.8756416886 0.4712470274 0.1786752280 0.0152193644
##
## 0.5288727893 0.2135988510 -0.7104745632 -0.3937406445 -0.2175838681
##
## -0.1249548278 0.0212822958 0.8065590457 0.4443773794 0.3054789732
##
## 0.7147463104 0.2588121534 0.4788545713 1.2010763046 0.7114474570
##
## -0.2620711095 -0.0196224621 0.1206506145 -0.4631397465 0.1539000098
##
## 0.5979715375 0.4627873222 0.2764855602 0.6201459691 0.6448065092
##
## 0.5598241769 1.6183436990 1.7448366407 1.6738442518 0.9132873573
##
## 0.7160688150 0.2428190749 -0.0868756961 0.0817812711 0.0095228886
##
## -0.4835673702 0.0125898944 0.3525721923 0.3320220208 0.4915779969
##
## 0.5638897383 0.2447819387 0.5119739027 0.6038791182 0.6852611192
##
## 0.2138263268 -0.1551105359 -0.0697027406 -0.1240105782 -0.3784255190
##
## -0.2089652515 0.2595754141 0.4497602263 0.3357551399 0.3987622349

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```

##
## 0.8314397448 1.0408479527 0.2863851944 2.3498173022 0.7073981112
##
## 0.5121034325 0.6741991421 0.7838480016 0.1138372275 -0.0094785261
##
## -0.1464194974 -0.2739279895 0.0076535857 0.8961982099 -0.1740903942
##
## 0.3580420206 0.8420429209 0.4491611356 0.1386111086 1.5065470065
##
## 0.3444072155 -0.1384861369 0.2313264462 0.6041736308 0.6015842077
##
## 0.1279924392 -0.1779748474 0.3606521586 0.3937149306 0.5543739638
##
## 0.5387122445 0.4792155378 1.0007579432 1.7430684116 1.4558212714
##
## 0.2535036429 0.3273266077 0.1891336039 0.1510976193 0.1198744320
##
## 0.3168260799 -0.0683620063 -0.1285311619 0.5477905713 1.1175047038
##
## 0.4941683927 0.5278745411 0.0005260734 0.2144705476 0.2535873880
##
## 0.0255215512 0.1695444393 1.3647419877 -0.0144316340 0.2223966707
##
## 0.8999797297 1.3052968622 0.9606355807 0.1651336446 0.1183707573
##
## 0.6825286594 0.4307999847 0.3432364308 0.3258145546 0.3616393195
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## 1.2817290668 0.5861451163 0.5944574424 0.5547020704 0.3703294721
##
## 0.1613019436 0.0918270266 0.4425353020 0.5419897280 1.1157192062
##
## 1.5655499926 0.9206377944 0.1641529962 0.1639176150 0.7506527577
##
## 0.3963573004 -0.4038768255 -0.5542323216 0.5004410457 -0.8312326024
##
## 0.3046143492 1.1078690270 0.9130819222 0.4542404568 0.4449769162
##
## 0.5573453181 0.7708610768 0.8092714278 0.3618230819 0.3473911930
##
## 1.2189323542 1.1332882759 0.9634515017 0.4005151577 -0.3955350721
##
## -0.1877463740 0.0007306188 0.2805582525 0.3572615050 0.2825588947
##
## 0.2820356013 0.6135439241 0.2768191907 0.7388633591 0.7353386596
##
## 0.0696727227 -0.5402119414 -0.0573309942 -0.7583481687 -0.0081245972
##
## 0.7977186912 0.6114597572 -0.0182653318 -0.0047601735 -0.1505336680
##
## 0.5119614773 -0.0417079258 0.6066754661 1.0762270674 1.5028082474
##
## 0.9267259752 -0.3429728920 -0.7454390528 0.8083381038 0.5713376813
##
## 0.2795970780 0.1778775812 0.1257992058 0.1824162854 0.4017559683

```

```

##
## 0.2179472347 0.9457528500 1.0118118990 0.3755263480 -0.3018037300
##
## -0.0771967930 -0.0709673267 0.1196001535 0.5981850593 0.5453140636
##
## -0.2301255070 -0.6265376329 -0.6823509748 0.6517738548 1.5269685895
##
## 1.7615354917 0.7420071792 0.0109097907 0.0872591163 -0.0377298278
##
## 0.2321362611 0.4765605060 0.5824125622 0.4674771092 0.2206770754
##
## 0.2811697260 0.9587495987 0.5598411640 -0.1022207568 -0.2883899158
##
## 0.5039241964 0.3958335658 0.8097525742 0.2499243081 -0.2443733548
##
## -0.1080957395 0.2600357442 0.3318935965 0.6196905614 2.6898805628
##
## 1.2771808593 0.5467932543 0.0714656612 -0.1088505268 -0.0591765017
##
## 0.2684866548 0.3195536812 0.1662992201 0.3849314999 -0.1086233994
##
## -0.4123060422 -0.0775296196 0.3938849585 0.4840667073 -0.2148826068
##
## -0.6645105130 -1.0859122852 -0.3090702869 0.3356867421 -0.0468726147
##
## -0.3395467488 0.8011644673 0.2037921072 0.1565516488 -0.6335269345
##
## -0.3225891724 0.1996036230 0.3672151018 -0.2528640299 -1.5437829196
##
## -0.9275392546 0.4015704124 1.0129761586 0.2942722721 -0.2381989369
##
## 0.1097809467 -0.3498356134 0.1216977634 0.6214742819 0.2073050134
##
## 0.0600455570 1.3105961291 -0.6205377331 -0.0947033776 0.2735822070
##
## 0.0450800273 -0.9592506424 -1.7094567487 -1.3348790248 -0.2695983007
##
## 0.3377857732 0.0781987163 0.1263826337 0.9467840092 -0.7346701246
##
## -0.8975453442 0.3598322988 1.3770496827 1.4114574232 0.4730431328
##
## -0.0263901412 -0.4613301260 -0.5049998323 -0.2292430600 -1.2211330513
##
## -1.3609078729 -0.5804113963 0.4851592718 0.6496521569 -0.4743390252
##
## -1.0882941636 0.0033475721 0.8426296359 1.1577914532 0.4305255224
##
## 0.1460391178 0.1063832980 -1.1893704135 -0.5508536445 -0.6534485243
##
## -0.3606030178 0.1225936538 -0.4159003918 -0.6058676001 -0.1441866887
##
## -0.9943037123 0.9545519197 -0.9556571893 -0.4904473648 0.6016166642
##
## -0.6486639872 1.2463297897 5.6089937545 2.5442486583 2.3813414845

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##
## 3.6521271530 1.6658475107 2.4826618383 0.9764927324 0.5869343166
##
## -0.2072159018 -0.8761196606 -0.7580880955 0.0634411078 0.0759201272
##
## 0.7151458780 2.9740581848 0.4369274820 0.5185288690 0.9533514634
##
## 1.6716126573 0.5733584592 1.3019214090 2.2996510801 1.5825823626
##
## 0.3631901684 0.7027582391 1.9443687516 0.9229655839 -0.5579821919
##
## -1.4717902476 -1.5324730217 -0.9169068445 -0.1540722890 -0.2333928576
##
## 1.0358570308 2.4349351111 0.2981186201 0.1709445822 0.5444103750
##
## 0.9397538044 0.4302195968 1.5973230776 1.6873721042 0.7053066108
##
## -0.1994845143 -0.2831506710 1.2499401344 2.4598476750 2.3337231135
##
## 1.2239716736 0.1355967592 -0.4263243357 -0.5637610358 -0.4854861248
##
## -0.0011941869 -0.2145242960 0.1099613277 1.3277207782 1.7420396865
##
## -0.1105162145 -0.1856142448 0.0341900663 0.3083423861 0.5336136450
##
## 0.6529057930 1.5756700272 1.4934369337 1.9249182823 2.0926880771
##
## 1.7321365173 0.7881333431 -0.2466537402 0.1692899860 0.9820354291
##
## 1.5101074331 0.9518488943 0.4388121154 0.0429352553 -0.2357536962
##
## -0.0125927540 0.6015884176 1.0893704554 0.5808169572 -0.3462868095
##
## 0.2710096470 1.6265115179 1.3737161181 0.2251414393 0.1924416420
##
## 0.2420780030 0.3113236114 0.2831856198 0.4410384353 1.3706864725
##
## 2.3107328579 3.1834372366 3.1856877650 2.3763400837 1.6948565993
##
## 2.0691248733 1.0802280077 -0.0576744410 0.2143965766 1.1085493087
##
## 1.4143406688 0.8300862742 0.6544177633 -0.1174408909 -0.6986181436
##
## 0.0614207249 1.7135348710 2.4737074953 1.1192336604 -0.1476179758
##
## 0.2934679211 1.2157712265 1.3788889084 0.7323990519 0.5735892476
##
## 0.5755986054 0.6676983226 0.4847184481 0.5693163365 1.3531446388
##
## 1.8889015789 2.6200017827 2.8409144628 2.1412179464 1.8977161879
##
## 2.6362428128 1.8659975622 0.8765487784 0.5682622925 0.1389181262
##
## 0.4416925168 0.9206880094 0.7136290545 1.0933162994 0.5368816126

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##
## -0.5277854801 -0.4553802882 0.3050007831 0.7558531213 -0.2621359054
##
## -0.3255498806 -0.1309905593 0.3797717893 0.8240673286 0.9002961495
##
## 0.5933301956 0.6662406748 0.7162945463 0.4106565413 0.4628658254
##
## 1.0187586906 1.4523847174 2.8114386504 2.7333944525 1.5389880487
##
## 1.7976597634 3.0698340221 2.1730088325 0.8368332467 0.1046512281
##
## 0.0943847220 1.0652162296 0.6607799651 0.1970993425 0.0998907493
##
## 0.3922456652 1.4425142029 2.3290531150 1.1955968071 0.5572667908
##
## 0.2423837986 -0.2548098371 -0.4368028141 -0.7216341321 -0.8989281526
##
## -0.1060840627 0.5783888793 0.8147809689 0.1803672156 0.4258429199
##
## 0.0644560046 0.0080437110 0.2808771543 0.6088323850 1.0216384199
##
## 3.5386327480 2.7388010845 0.8457805234 1.2032408817 1.6907564467
##
## 0.4014073596 -0.1892283275 0.5560934619 0.4089232530 1.0957616602
##
## 1.2788575985 0.7119162276 0.1256001728 0.0666176448 0.6228882630
##
## 1.3736330286 0.4036958811 0.2227527256 -0.1533724946 -0.5092559799
##
## -0.1367126591 -0.6735233846 -1.1669260228 0.7897758184 1.6395173388
##
## 1.2450069565 0.8101404521 0.6288319590 0.0694925351 0.0641289692
##
## 0.4153405942 0.3815258322 0.4310622594 1.8259320778 2.3033920597
##
## 0.9093381687 0.4435428814 0.6247497483 0.2226199231 -0.4095644150
##
## -0.4533149273 0.4986868679 1.1012715521 0.1925845232 0.5302552224
##
## 0.5886285641 0.7455894221 0.9985235730 0.9311451072 0.1992816837
##
## -0.2185424117 -0.0099296560 -0.2520728849 -0.4469556131 -0.0619325747
##
## -0.3039865415 -1.1738238667 0.7088336443 1.4396097154 1.1944832070
##
## 0.6654138573 0.0481542184 -0.4165743366 0.1786642422 0.5034114894
##
## 0.1964686662 1.0784086319 2.5285345508 0.6028390723 -0.2022393852
##
## 0.0675832705 0.3437051920 0.0129025547 -0.2254647805 -0.5635673590
##
## -0.0872799588 -0.1885571629 0.3335146116 0.4737259899 0.7815658212
##
## 0.5097974017 0.6139824354 1.4357435915 1.9910230977 0.3177895762

```

```

##
## -0.5676049628 0.1214501040 -0.1169088955 -0.3310905284 -0.6981634747
##
## 0.2723018320 0.7354076348 0.7456373310 0.3598795111 -0.3010165728
##
## -0.8990422466 1.2878760016 1.1616048312 -0.5197714759 -0.6832993580
##
## -0.0953079231 0.4446713095 0.7665599575 1.2439315445 0.9590157839
##
## 0.9652272082 0.2320623588 -0.3573106616 -0.1623028995 0.1097498986
##
## 0.1601123981 0.1855529284 0.2740752416 1.1579431378 2.1307143178
##
## 1.1350741878 0.4011860635 0.1401650103 -0.0416904030 -0.5084984358
##
## 0.0072554141 0.2267992232 0.3826329699 0.4513937719 0.1751322730
##
## -0.2614735498 1.3659877836 0.5993916959 -0.4125957390 -0.2769404630
##
## 0.1802265074 0.5293397690 0.8171871798 1.1279735898 1.0825476898
##
## 0.7243303069 0.6850048568 0.9104301892 0.5666572743 0.0690999412
##
## -0.3151332209 -0.4204736975 -0.0474641593 0.1125934969 0.1880868237
##
## 0.3089776950 0.4037390538 -0.0535608793 -0.6891625068 -1.0679595146
##
## -0.1793371950 0.0808376094 0.0955526643 0.1552825541 0.0405706621
##
## -0.3030455740 1.5751542830 1.0168249813 1.0925488121 0.5406685855
##
## 0.3119069001 0.3191624634 0.3424738411 0.5398468896 1.0361294197
##
## 1.4590762063 0.1914974070 1.3147204461 1.3394147485 0.5050103477
##
## -0.0651625401 0.3083492821 0.6410584483 0.3186019307 -0.0480936707
##
## -0.3421239833 0.4608916636 -0.2256276341 -1.0207886675 -1.0744972607
##
## 0.1418135863 0.0646600009 0.6661479337 0.5295185443 0.0503487583
##
## -0.1531451502 1.4427830523 2.3331218847 1.2419735874 0.0792029924
##
## 0.3699585403 0.5271966714 0.5947783818 1.0472667933 1.5005745920
##
## -0.1606415958 0.2749000250 0.3224018736 0.2890379727 0.4455812928
##
## 0.5062198320 0.1490525733 0.8754638029 1.1660293088 0.7872571197
##
## 0.1378827500 -0.0425646522 0.4887994994 0.5809709914 -0.5206616350
##
## 0.0034126879 0.3605053658 0.2572531433 -0.0076934111 1.0032604930
##
## 0.9176472458 0.0232328226 0.4751985237 0.7628350976 0.9059963890

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##
## 0.9634657549 0.3830853609 -0.2028184270 0.4969680844 0.4754275272
##
## 0.6496320356 1.0095444292 0.9640601318 0.2834992059 -0.1198837719
##
## 0.6451358844 1.1298965124 1.1284408613 0.9650013225 0.6928723462
##
## 0.6277039237 0.7574121223 0.2556762207 -0.2105284266 0.0994272903
##
## 0.1548369051 -0.3175149431 0.4803228505 0.2612167841 0.3062768348
##
## 0.4570406392 0.1906333434 0.8626627320 1.0293097132 0.9118013697
##
## 0.7770817110 0.4384597237 0.0682728530 1.1002969818 0.0541661033
##
## 0.3202559809 0.8616733079 0.7373449630 0.0108349365 -0.4080811212
##
## -0.2397820159 -0.0913155380 -0.0150656580 0.1079989210 0.0576577359
##
## 0.4581016459 1.0447528615 0.7154258375 -0.2898526849 -0.0335565579
##
## -0.4095508091 -0.7871485907 -0.7323059577 1.0374234792 1.0820582276
##
## 0.5004969404 0.5345660284 1.1817305028 1.2648293780 1.9161836852
##
## 1.7177195113 0.6322945826 0.0899803061 0.2103660578 0.0352580416
##
## -0.2496258055 0.0923736619 0.8358556529 -0.3242378455 0.1020413574
##
## 0.6356505286 0.4970821892 -0.1065970566 -0.3390170221 -0.8461871067
##
## -1.2440238669 -0.8639111820 -0.6157367768 -0.6070992767 -0.2324503650
##
## -0.1432397048 0.3621592058 0.8492483972 0.3419130572 -0.2121955503
##
## 0.2428251301 -0.4695802936 -1.1922884147 -0.8961919915 0.6314854525
##
## 1.4025220908 0.9916585113 1.2561742806 1.8587565266 1.7314040432
##
## 1.1941393085 2.3551060284 1.1367862573 -0.1385465491 -0.3964198761
##
## -0.0840118836 -0.9656461998 -0.3472152350 -0.2673580521 -0.3049461306
##
## 0.3301864969 0.4731588825 0.2764518593 -0.1193320458 -0.0405311058
##
## 0.1423466309 0.1013752481 0.0070935684 -0.2635389136 -0.4350928464
##
## -0.0533035411 0.0271776672 0.1688397856 0.1579008898 -0.3270346335
##
## -0.3940526763 0.8754785558 0.1958649163 -0.6669877450 -0.5343948617
##
## 1.0148969290 1.0831891533 1.4601488442 1.5385931249 1.0217821064
##
## 0.5119439540 1.6246309482 1.5279289814 0.4448777477 -0.0048743253

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```

##
## 0.1294124950 -1.6389932967 -1.0913884938 -1.1435916237 -0.1466883828
##
## 0.7622106029 -0.4233397944 -1.0043950518 -0.5495946955 -0.4514150796
##
## 0.4603339068 0.7341579917 0.1067350491 0.1281802548 0.1541258666
##
## -0.0386511520 -0.2693486908 -0.1972303880 -0.0482798490 0.1954223228
##
## 1.0570525218 0.5473357813 -0.1515863547 -0.0490342703 0.1775876049
##
## 0.5295868692 0.0923906339 -0.2955572733 -0.0283984989 0.4987781676
##
## 1.0886456891 0.3505060384 0.1434097623 0.2238785085 -1.6647223520
##
## -1.8496126850 -0.5034684118 -0.0227323321 -0.2494359519 -0.8293171408
##
## -0.8016373173 -0.2501644804 -0.2990574566 -0.1369715212 0.6314288312
##
## 0.5728091388 -0.2688523184 -0.1686082717 0.3698484824 0.2708312879
##
## -0.0361756987 0.3624178722 0.3379314214 0.1453757994 0.6687991528
##
## 0.3459348730 -0.4150158930 -0.2863659184 0.0415370914 -0.4275916724
##
## 0.2719890967 0.0980125071 0.2054038523 0.0093540435 -1.4095848609
##
## -0.6343960660 -0.5778303695 -0.2703476898 -0.3037877556 -0.4209433108
##
## -0.3176971390 -0.0176652764 -0.0098334119 -0.5267374240 0.3297181854
##
## 0.1916578553 0.2225952977 0.2749891570 0.3008766747 0.1305625629
##
## -0.4001521763 -0.5837102286 -0.2127233604 0.1825152212 0.3327974589
##
## -0.2163488224 0.0541268821 0.1065113226 -0.4438018446 0.0577138885
##
## 0.7624022230 1.5601265503 1.3909379178 -0.5801717148 0.0397444083
##
## -0.3815040082 -0.6251394035 -0.2792402578 -0.1067925741 -0.0715990735
##
## -0.0712302874 -0.0507401494 -0.1147802018 0.3536050530 0.0524110348
##
## -0.2331826753 0.2830960591 0.1484371962 -0.1428548411 0.0542889731
##
## -0.0868485374 -0.6038689738 -0.4743570099 0.4307868038 -0.7367899119
##
## -0.5465724256 -0.4328225401 -0.1780448145 0.1238565007 0.0749734609
##
## 0.4296258720 0.3265442049 0.0730730734 -0.4740318869 -0.7172285072
##
## -0.9515471956 -0.3354605285 -0.2019595408 -0.3690213712 -0.4210802784
##
## -0.1488377601 0.2227817904 -0.3184367425 -0.2580432537 -0.3274656371

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##
## 0.3175239959 -0.0975971703 -0.2815405791 -0.0984966316 0.0268878448
##
## 0.1301474110 0.3708244077 0.4376659947 -1.1635000217 -0.7074849128
##
## 0.0205590573 0.1954874399 -0.0052364491 -0.0321314799 0.4342000383
##
## -0.4173950710 0.0064763006 -1.1918773744 -1.0436901957 -0.9500971391
##
## -0.2713894027 -0.4304410537 -0.7889016019 -0.9414169134 -0.7000269370
##
## 0.0299705579 0.4272190216 -0.3685987389 -0.3071510485 0.5525491232
##
## 0.2670176547 0.1709204170 -0.2123161973 -0.2563840024 -0.0335027215
##
## 0.2828849257 -0.0576549504 -0.1164115135 -0.0641660117 0.1517308037
##
## 0.5856815882 0.3777149600 -1.3350514040 -0.6119140764 -1.1489683762
##
## -0.0499905988 -0.0976810782 -0.6842955339 -0.6512082671 -0.0155456894
##
## -0.0421044106 -0.2719146280 -0.2570914857 -0.3729601032 0.3109114738
##
## 0.8641881587 -0.1889546669 -0.6465892170 -0.2629889938 0.2140870823
##
## -0.5966573423 -0.0159825143 0.0659009438 0.2626596114 0.9358187019
##
## 1.6039688092 -0.9781776795 -1.6335072480 -0.2464483582 -0.2330954514
##
## -0.3470863363 -0.1680668726 0.3892779039 0.2878992401 -0.3586892400
##
## 0.1073572172 0.0418881952 -0.3011376370 0.1848762044 0.8888224010
##
## -0.0670550680 -0.6514113457 -0.2349525752 0.2855076349 -0.1200360494
##
## 0.5051420283 0.0601515739 0.3170552664 1.2941981910 2.0620971842
##
## -0.3819438668 -0.0663381094 0.2991051310 -0.1093873309 0.0985952029
##
## 0.0185057366 -0.1424784214 0.5168557391 0.1343408190 0.5424126432
##
## 0.1718617308 -0.0129494652 0.0451196652 0.2876515425 -0.0464132560
##
## -0.6347669295 -0.8880604607 -0.1587598657 0.4833969163 0.8781248099
##
## 0.9712986025 0.3735675612 0.5790595410 1.1433741297 1.2402481911
##
## -0.2140795663 0.8363768309 0.4656911484 0.2768492806 0.3675253847
##
## -0.1486374439 -0.9071850168 -0.5402530580 0.5524331070 0.3502444609
##
## -0.1485737827 -0.0295197627 -0.2187116696 -0.2932730598 -0.6157818788
##
## -0.6425485083 -0.6619516808 -0.3847910458 0.3090057659 0.7213980648

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```

##
## 1.4072579145 1.0723237976 0.9773475087 0.9562254308 0.5480478577
##
## -0.2862215867 0.5325411319 -0.1156085478 0.6724252064 0.5326845499
##
## 0.2813952982 -0.1027668504 -0.3913768011 0.0364666669 0.2437877624
##
## -0.2307008087 -0.2961274143 -0.5751567617 -0.3478986148 -0.2259695879
##
## -0.3586544492 -0.1871348218 -0.2889001609 1.0936586926 1.5440788438
##
## 1.8668201864 1.6800839432 1.9493297098 2.1637322570 1.0033245146
##
## 0.1957533980 0.6771499878 0.1884727407 0.9592578065 0.8003171319
##
## 0.5007149022 0.7435556684 0.8011200940 0.1186731417 0.3750209583
##
## 0.6527515039 0.0071654118 -0.5241714719 0.0065858783 -0.0987464555
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## -0.1863700820 0.2591699305 0.0176664951 0.9953782013 1.3634575815
##
## 1.2002576372 1.5851728092 2.3372422758 2.3345753593 1.5090899870
##
## 1.7054511811 1.3882124002 0.6788605959 1.1855307145 0.7731523909
##
## 0.7593212187 1.4926266199 1.7561668647 0.5317410148 -0.4900885053
##
## 0.8047827519 0.2615589708 -0.0428918867 0.6369510586 0.1713688115
##
## -0.0724348643 0.5227205453 0.4870639409 -0.1780084905 0.4289814383
##
## 0.5750400270 0.2251832574 0.7253565905 1.5521501743 1.5054280849
##
## 2.2553950119 1.0564639194 0.3523594885 0.6953201891 0.9273102174
##
## 0.5183077143 0.8044108968 1.4501463850 1.3587060662 0.2228403542
##
## -0.2070762228 0.5970707316 0.4892280410 0.4095198001 0.4702769300
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## 0.9645072109 0.4935254310 -0.0354682485 0.0233897760 0.3066280473
##
## 0.2559063880 0.4164702890 0.0145128329 -0.5853359664 -0.6181732461
##
## 0.4690220655 0.5416223766 0.4214093548 0.3347845612 -0.3442690663
##
## 0.0027480977 0.1428126193 0.0689990884 0.2745551413 0.9939997622
##
## 1.3602384464 0.2102581742 0.5337005156 0.7713509971 0.6331934553
##
## 0.5307415707 0.8920268704 0.3862233599 -0.5222696569 0.0133778936
##
## 0.3705522095 0.6654539883 0.6162803108 -0.2391613235 0.2690978209
##
## 0.7575864848 0.7828049561 0.1488609597 -0.5807520496 -0.6073263555

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##
## 0.1256934861 0.8414142575 -0.1957587595 0.1275691370 -0.2340242072
##
## -0.4018106789 -0.5858091854 -0.3034034827 0.2484834434 0.9136512164
##
## 1.1401402425 0.2900924688 -0.5386701147 -0.3566336299 1.1668576428
##
## 1.3847306694 0.8735164087 0.6077561683 0.6020174297 0.4463394879
##
## 0.5572225753 0.4017079661 0.1967381306 0.7026340415 0.4505334800
##
## -0.3721404984 0.0731922070 0.1411010720 0.1710323313 0.2232909840
##
## 0.1735159307 -0.2221009006 -1.1402874741 -0.2742920928 -0.1709497645
##
## 0.6368610583 0.2379394645 -0.2958809041 -0.3569926003 0.0157019221
##
## 0.1525636557 0.5106328601 0.7865129972 0.1122470094 -0.2310876069
##
## -0.3628482269 0.9101087372 1.1301135141 0.9392478937 1.0268493122
##
## 1.1833182775 0.6510688056 0.9628652209 0.2916647481 -0.0045812880
##
## 0.3864738138 0.4885460202 -0.0418806772 -0.7391427446 -1.0399132981
##
## -0.7329059662 -0.4323800168 0.1445537998 0.5368130181 0.4806961979
##
## 0.5880562532 0.5208593849 0.5955291745 0.4350826505 0.7209616083
##
## 0.7198782017 0.3049437651 0.3753801982 0.2757474115 -0.1012327527
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## 0.9101451695 0.1844874357 0.1902137980 0.2465159868 0.4484825350
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## 0.7727535265 0.9772170573 0.6248941610 0.8355480277 0.0134669825
##
## -0.1880511068 0.9161974167 0.4073992700 -0.4608271198 -0.9755833978
##
## -0.6078035047 -0.3592848865 -0.0399988623 0.2492515732 0.0962748075
##
## -0.1246318111 0.4437885294 0.5799474441 0.8165642246 1.0665298605
##
## 1.4378673258 0.9058977621 0.2521566522 -0.0611464024 0.1377167648
##
## 0.3635957842 0.4813892816 0.1996920922 0.1350379515 -0.0930869549
##
## 0.3112541383 0.6222851304 0.5786858338 0.6141710631 1.1826922212
##
## -0.0312491312 -0.7304437758 -0.2163741251 1.0030426601 1.1719990694
##
## -0.2597844934 -0.4191060073 -0.0012645343 -0.1925610825 -0.0707087789
##
## 0.2761906918 0.0166452131 -0.3352503167 0.8232851112 0.4417561446
##
## -0.3562616008 -0.6954303829 0.9954089376 0.0159799619 0.0010170607

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##
## 0.3034753040 0.2745410729 -0.0290089354 0.0113672835 0.3741787051
##
## -0.0453171436 0.0596503789 0.6027332055 0.9636238597 1.0678297295
##
## 1.4679078498 0.4367095772 0.5808167007 0.4233952671 0.6001381296
##
## 0.7943916257 -0.1627644457 -0.9734796441 -1.2133911712 -0.5887616608
##
## -0.4698470156 0.2394248779 0.2614456289 -0.2753909003 -0.0640199989
##
## 0.5939211560 0.3007841101 0.6504746674 -0.6353155672 0.1716653445
##
## 0.8852406117 0.5685172673 0.0629958170 0.2207116467 0.6490425204
##
## -0.1263775971 -0.0546897916 0.6082443475 0.8211033054 0.3712686956
##
## 0.6087585141 0.0012799760 0.2034716124 0.5373631439 0.2188065737
##
## -0.1950369828 -0.1473189628 -0.4910094548 -1.2550834491 -0.9402449215
##
## -0.5831534053 0.1159618151 0.4276569171 1.7903263285 1.5730992251
##
## 0.2595424309 -0.3564573605 0.2631221920 1.0578312448 0.5668279014
##
## -0.0448066611 0.0484609733 0.4407816334 -0.0547141584 0.6526112092
##
## 1.0102959279 0.6934198708 0.1170683519 0.2535627912 -0.0340197543
##
## -0.0503139145 0.4416815746 0.0723280607 -0.7099541334 -0.5428172954
##
## -0.0390929408 -0.2691574387 -0.8439847168 0.0063050508 0.0666367795
##
## 0.5466242587 0.4961359832 0.5438892018 0.0185191301 -0.0675130458
##
## -0.0499744387 -0.3534651277 0.6554192058 1.2777176601 1.0210371745
##
## 0.6698549094 0.3182316547 0.0120061034 -0.0115186276 -0.0086143555
##
## 0.2005328252 -0.0214775246 -0.6306027575 -0.8292501079 -0.1474456682
##
## 0.7607765499 -0.1682694132 0.2578556527 0.4373044293 0.8208155245
##
## 1.0202755560 0.8041987298 0.7581103998 1.1917969630 1.4093100232
##
## 0.9314472748 0.1864690809 -0.3852573032 -0.4805655115 -0.4048911837
##
## -0.5973342232 -0.5510689277 -0.3555026902 -0.0297934970 0.7602266147
##
## 1.3519530023 0.4479163974 -0.5035344749 -0.5283152245 0.3557440515
##
## 0.9293635717 0.7436586712 0.1909278606 -0.7269592543 0.9995349243
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## 1.3187083151 0.2739429759 -0.8024780715 -0.3105652071 -0.7327940633

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##
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##
## 2.3718780573 0.3348449897 0.1662908609 0.6250978432 -0.0632027104
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## -1.5143821857 1.1727110129 1.4047447565 0.1491543663 -0.7736977706
##
## 0.6128392328 -0.0639778286 -0.2540584408 0.1309170683 0.5219106645
##
## 0.7089214072 0.2843593143 -0.1884751649 -0.0351033705 0.0294039274
##
## -0.9155517216 0.4640967782 0.2788424660 -0.4729519643 -0.5713927352
##
## 0.4774395114 0.0786044651 -0.9726765093 -0.8351197321 -0.3112655721
##
## -0.2636272591 -0.2019776768 -0.1334837222 -0.7269824272 -0.3597955316
##
## 0.0165030492 -0.8148145279 -1.4917634090 -1.1361335645 -0.7884704016
##
## -0.8667593477 0.3654558613 2.3114528771 0.4972916388 0.3567557143
##
## 0.8442739207 0.1808340169 1.2625248257 -0.2509613958 -1.0721840413
##
## -1.3567328483 -1.2096347700 -0.6368111201 -0.4574572255 -0.1148830282
##
## 0.3564173080 0.1380635763 0.7862293364 1.3872977821 0.7965678713
##
## 1.4343486759 0.4979996165 1.0472510365 2.1290858497 2.1303677047
##
## 1.5557184064 0.4606323141 -0.1872710043 -0.3166320994 -0.4648537987
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## -0.3885546850 0.2411869152 -0.0182808694 1.7042272282 3.8960156445
##
## 1.9607457000 -0.5064784748 0.1473120802 0.5141808261 0.8166236770
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## 1.0035367611 0.8817184435 1.3426392069 1.6074153817 3.1757734273
##
## 3.1611997607 1.5315521988 1.8569743293 1.2985834240 0.9818865346
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## 1.8660917592 0.0161843347 1.0882145630 3.7387690406 3.1593713271
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## 0.2415395511 0.2800298817 0.0827638797 0.3271888289 0.7178254493
##
## 1.0805123385 1.6610207744 2.2216487370 4.4735117068 4.8882951287
##
## 3.7140307925 3.5586708394 1.4147208001 1.6358218662 1.4309043141
##
## 1.6678630355 1.5437697252 0.3217526797 0.1488353136 0.2321275477
##
## 0.2529848541 1.1348139470 1.8223752366 -0.3894560059 -0.0877826543
##
## 1.6025025961 2.4366042883 1.5093731781 1.1227226357 0.0491536927

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```

##
## 0.1105844587 0.6971370565 1.2580246479 1.5057095853 1.0155962868
##
## 1.1979251680 1.4221405009 1.6711587026 2.1597793776 2.6135326173
##
## 1.6707227905 1.2896608653 0.5507758210 0.4283043404 1.4581505727
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## 2.4843047344 0.9677244383 0.1066971959 0.3847364150 0.5647695090
##
## 0.1977581300 -0.2348469064 -0.6667649273 0.1451277766 1.0568501333
##
## 1.2068765979 0.9060267739 0.9953406006 0.4408998037 0.2055500605
##
## 0.3652765778 0.5833270415 0.7350451738 0.9950356383 1.0701112561
##
## 0.6361718867 0.8360849775 0.9760094445 0.6704232429 -0.0482587866
##
## 0.3798089180 1.2848792272 1.0826814579 0.4703765048 0.0026767166
##
## 0.4013543086 1.8274954171 1.7034157841 0.6184662639 0.6880155595
##
## 0.3715160115 -0.5541264337 0.1176391003 -0.2040022962 0.1106054286
##
## 1.1096589212 0.9664877358 0.4124636574 0.4412179331 0.6745748529
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## -0.0577500187 -0.2314209896 0.2800299979 0.4259567764 0.2735918809
##
## 0.9027766380 1.1162601681 0.5596546528 0.3946159798 0.4168665706
##
## 0.2785992211 1.2700769179 0.4999819652 0.5179020820 0.3954012123
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## 0.2558079787 0.3522350288 0.9624704860 1.4200375616 0.3439253381
##
## 0.1609878716 0.0244881017 -0.0428922609 0.4247759751 0.1498311920
##
## 0.0149161561 1.2052009645 1.1642706883 0.5617081853 0.2732242247
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## 0.2803350257 0.0525133939 0.1159297687 0.7095587313 0.5087038743
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## 0.0343573777 0.7822757858 1.9824697413 0.6135335413 -0.0383333024
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## 0.7309539332 1.3463412977 0.6617017407 0.5214435269 1.4199311354
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## -0.0295259086 0.0924857603 0.4174300300 0.9993489223 1.5456545876
##
## 1.3393655198 0.2158543607 0.2542367071 0.5423300577 0.3875896374
##
## 0.2567929283 0.4582628238 0.4039263180 -0.0329398801 0.8006288798
##
## 0.9970199838 0.8734682662 0.5816244383 0.0864322064 -0.3161826753
##
## 0.6638057159 0.6207033095 0.5636388634 1.1665261266 2.4974354064
##
## 0.9018261437 0.0149016480 0.4887572433 0.8889246020 0.7856779827

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##
## 0.7928694353 0.2744561786 0.6233639568 1.2697179919 0.5228453901
##
## 0.1983057080 0.2735557843 0.8420812029 2.1645969921 2.7183374827
##
## 0.4934041709 -0.2621049923 0.5886058431 0.2997033581 0.1801870223
##
## 0.4382732464 0.5686735898 0.1005725449 0.1581328587 0.4088144167
##
## 0.3900532725 0.0429492566 -0.4407714298 -0.7278574275 -0.0047061568
##
## 0.6883771865 1.4949660697 1.7170042695 0.6861711782 -0.4536274280
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## -0.5538870400 0.0836840276 0.5977954345 0.9331015126 1.5698266426
##
## 1.9112759084 0.9016828224 0.6016838841 0.6041421481 0.4072006957
##
## 0.1442625891 0.5502951580 0.2810319818 0.5587959668 1.1353606759
##
## 0.5922095954 0.1537778645 0.8186338345 -0.1257657083 0.3179119280
##
## 0.7021446104 0.8996487738 0.8660465927 0.2895811530 0.2098268367
##
## 0.1707665565 -0.1392781040 -0.4734055773 0.6387628844 1.3348180714
##
## 1.0339757118 0.2520783040 -0.1490526765 -0.1038048900 0.5042650486
##
## 0.6056180270 0.4814044388 0.5636930035 1.0534126016 0.3627591720
##
## 0.1805022088 0.1426393370 0.3174358683 0.7914522722 1.3074104851
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## 1.3188922888 0.5355976812 -0.0894096675 -0.1244470722 0.2320634069
##
## -0.1499356134 -0.3611816729 -0.5984647401 -0.4277989580 0.6786413038
##
## 0.2395595940 0.3887435377 0.6193897678 0.3542140211 0.2045488019
##
## 1.8701490626 1.7009424568 0.6410354311 0.1896854221 0.6013654714
##
## 1.2972877548 0.7027951254 -0.1844056554 -0.4796906601 0.0486632026
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## 0.3758635501 0.6740444835 0.4627563588 0.2849675687 0.5421140333
##
## 0.9809771357 1.2340487167 0.9394606120 0.2751185558 -0.1735288967
##
## -0.2328757029 -0.2997041332 0.0148204141 -0.4294633309 -0.5402056757
##
## -0.1284726001 0.4304834308 0.0955583339 0.5882148745 0.8106623963
##
## 0.2757604778 0.1015796051 1.2379474170 0.6470463300 0.5217347149
##
## 1.1153773049 1.7659554830 1.2548180634 0.8846214489 0.5602306413
##
## 0.1292236044 0.2493455892 0.7224860193 0.7755893933 0.8794227042

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##
## 0.8671966786 0.4371124048 0.6684427401 1.3314729712 1.3061762148
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## 0.9209285752 0.7521488729 0.4344312569 0.3813187167 0.6454863064
##
## 0.4659896563 -0.3024428070 0.1191892286 0.0462772347 -0.1869830635
##
## -0.1619590079 0.4365816545 0.2226881338 0.5378845752 1.2043332923
##
## 1.4223737715 0.5340294970 1.2622905555 1.7014694628 1.1156625126
##
## 0.5629581406 0.7653401078 1.1305249616 1.7786711313 1.5552107801
##
## 0.2397288471 0.4576550752 0.9408940943 0.9640125143 0.3696707658
##
## -0.2295207649 0.4301624745 0.7373059942 0.7883328891 0.8958260596
##
## 0.8141099602 -0.0179874803 -0.2371992812 0.0645589830 -0.3649293050
##
## -0.5352052201 -0.2781218575 0.6601391710 0.4150176411 0.8509300920
##
## 0.9649029166 1.0861907218 1.6782267637 1.5665865161 0.8287644701
##
## -0.2802843742 1.4791602933 0.7978317135 1.0122983930 1.5123109887
##
## 1.1160278769 -0.1441062078 -0.6025139550 -0.2385070959 -0.2373044705
##
## -0.2678162863 -0.4062519686 -0.7735095711 -0.2391463786 -0.1886518504
##
## 0.4132744237 1.3389976305 0.7767935286 -0.2834729658 -0.0633037481
##
## -0.6091111889 -0.8384323424 -0.3460550131 1.3497964561 0.9433678916
##
## 0.5260204253 1.0498690029 0.9563314560 1.3300694727 1.3953240995
##
## 0.7230351446 0.0944944127 -0.1545135080 1.9665473543 0.6512246539
##
## 0.7745062066 0.9033093724 0.7153623423 0.1852995773 -0.2243013245
##
## -0.2883486879 -0.2678980147 -0.3013701782 -1.5030152185 -1.1620310358
##
## -0.6401438309 0.1680503433 0.6134373046 0.0097424233 -0.5363432980
##
## -0.2735193683 -0.9469240653 -1.2653794745 -0.9870617916 -0.1636681112
##
## 0.3938154553 0.3489327888 0.1570990508 0.7602032337 1.1787152470
##
## 0.6436321513 0.4945279232 0.1344614596 -0.3637241061 -0.2499684123
##
## 0.0011894775 -0.1847600584 0.6226931214 0.7450109383 0.0910932918
##
## -0.2457375026 -0.0558412868 0.1572796252 0.1883367059 0.3268043655
##
## 0.0811123479 -0.9751597363 -0.8463306817 -0.5706154115 -0.0644444653

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##
## 0.0579722692 -0.6259689087 -0.9555970967 -0.3805269869 -0.9008510711
##
## -0.5113858541 0.3449085953 -0.2749976314 -0.4412792446 -0.4532308335
##
## -0.1180799092 0.8391963171 0.9907608850 0.0154616063 -1.0312026223
##
## -1.9250282990 -0.6796811075 0.8682741469 1.1536128761 -0.7140959241
##
## 0.5325195179 0.4072685493 -0.3607525114 -0.7141603557 -0.4033161650
##
## -0.0067429061 0.5383756950 0.8195961654 -0.0351944025 -0.6393363486
##
## -0.3377718456 -0.0427115063 0.1731068442 -0.0784383309 -0.5044863745
##
## 0.0714001255 0.0099878540 0.0398109980 0.8861332223 -0.4591253146
##
## -0.0411030665 0.4510067305 0.3405882740 -0.0984002606 -0.3768418069
##
## -1.2200790521 -0.4738304562 0.4843412021 0.4629935400 0.1768768367
##
## -0.1732405164 0.5217046267 0.0900503829 -0.2484239079 -0.2850489603
##
## -0.2052309709 -0.4558818051 -0.6280511284 -0.2662648467 0.5477778134
##
## -0.3261552122 -0.2501142538 0.2450543640 0.7779513089 1.2933687438
##
## 0.7299361694 -0.0979873373 -0.0055199509 0.1961633303 -0.0170814543
##
## 0.2952893896 0.1322110472 0.1313465119 0.2871340143 0.3091944718
##
## -0.1221711766 -0.2539316555 -0.4516170698 0.3596783975 0.3359708947
##
## 0.3728830074 0.4404403383 0.3801332158 0.0881964061 -0.1240519760
##
## -0.0875512031 -0.1976714276 0.0807517207 -0.0646834371 -0.2086589828
##
## 0.2422219112 -0.0866120831 -0.0533064634 -0.1009772381 -0.5209211131
##
## -0.3284139290 0.4374816254 -0.4424630165 -0.1287860500 0.0650135155
##
## 0.1885743578 0.2051141456 0.0246351720 -0.0054494294 0.0006932181
##
## 0.9710146427 0.5744425863 -0.1895548962 0.1258803811 0.1049700002
##
## 0.0005901758 0.1212816730 0.4355358926 0.3173118009 0.2080949259
##
## -0.2533948149 0.5673499547 0.2556337745 -0.3870061348 -0.4863040815
##
## -0.6051470937 -0.7262668367 -0.3752827118 0.1098778279 -0.3603387511
##
## -0.1150564977 -0.0155511935 -0.0193185035 0.0119281025 0.1476739214
##
## 0.5111970381 0.4833712242 0.0665624234 0.0291770863 -0.4245863123

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##
## 0.0491892667 0.1216726408 -0.1520343434 -0.1300439505 0.5698174197
##
## 0.0777782868 -0.5146469448 -0.3046565085 0.5857007126 0.2376221581
##
## -0.2580371950 -0.4242923286 -0.4462602330 -0.3227166907 -0.1283375742
##
## -0.1367116119 -0.7130790044 -0.2190751318 0.2557554245 0.0472803625
##
## -0.1653451377 0.0036754021 0.1767140667 0.1723754670 0.5494058943
##
## -0.2772651448 -0.0921970822 0.1115845201 -0.3331870867 -0.8212975261
##
## 0.5815817720 0.5970284367 -0.5079498334 0.1724162772 0.3909351897
##
## 0.5084614001 0.2622707742 -0.0293078754 -0.0465624430 0.0219586536
##
## -0.2795681671 0.0410914895 -0.1646473290 -0.3627682953 0.3230372520
##
## -0.2541142404 -0.8928909297 -0.5661303926 0.2559486473 -0.1329920107
##
## -0.1486992699 0.1530306860 0.0027513666 -0.5186323996 -0.3162820645
##
## 0.1127704697 0.2082846717 -0.1834752103 -0.7077727949 -0.5666777411
##
## -0.1976974331 0.4112554265 0.3077895212 0.9445155315 0.5468552140
##
## 0.4318551803 -0.7364262001 -0.8582833580 -0.2222122720 -0.1459913145
##
## 0.3623656930 0.3676906642 -0.8509560974 -0.3540528040 0.0474719787
##
## -0.3240731833 -0.2574368089 0.4333374962 -0.0339733821 -0.8325123661
##
## -0.1972275596 -0.7294443805 -0.4178599107 0.0237722535 -0.2480495734
##
## -0.6700832209 -0.5216943540 0.0733630710 0.3672376512 -0.4565193489
##
## 0.0607388715 0.1647921694 0.4433242818 0.3946160873 0.3636695423
##
## -0.2118344368 -0.2592848346 -0.2061018892 -0.2726999343 -0.0604131143
##
## 0.1655325376 0.0066209472 -0.5743578138 -0.5619983252 0.2532106262
##
## -0.0697301828 0.2150170200 0.9801208641 -0.1641297590 -0.1406351603
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## 0.1617162164 0.3073794017 0.0265070788 -0.5722496123 -0.8345041484
##
## -0.1099124628 0.3391989727 0.5252237765 -0.0675364826 -0.5717895084
##
## -0.7074468336 -0.3221276952 -0.5204212322 -0.6289648854 -0.6427807000
##
## -0.3775812180 -0.3085105509 0.1619452487 -0.2478992056 -0.2348249492
##
## -0.6441335297 -0.6094892534 -0.2384696668 -0.2235739911 -0.2649578504

```

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##
## -0.4274180879  0.3625067470  0.4622319907  0.4779987304 -0.1715956973
##
##  0.8958365879  0.8656588965  0.2398941006 -0.4818641444 -0.7613476107
##
##  0.1061442001  0.2974488017  0.0115140315 -0.3592214170  0.0528933781
##
## -0.4527206451 -0.2661008460 -0.4794235656 -0.4829686276 -0.4775577230
##
## -0.6935623370 -0.4873463249 -0.3612160788 -0.4073038703 -0.1578898236
##
## -0.0845978344 -0.0751198020  0.1374795697  0.4145477538  0.4451799323
##
##  0.6746265986  1.2120651805 -0.4499701832  1.0038002281  0.9456714751
##
##  0.9622904584  0.8955276227  0.4623375111 -0.1026140574 -0.5568906288
##
## -0.2932962865  0.2161435197 -0.0624992015 -0.6819683753  0.4333131430
##
##  0.3474289691  0.3408922411 -0.2818082350 -0.1556348720  0.0552858570
##
## -0.3807370650 -0.1895482317 -0.2407022553  0.4191802368  0.0155474087
##
##  0.4534235935  0.7054976636  0.8923623625  1.0584233834  1.4046129686
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##  1.9474216791  2.5436969503  2.8498496441  0.8057513049  1.5160745241
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##  0.2648706583 -0.1060153893  0.2526619775  0.1319846784 -0.2440978570
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##  0.5317223793  1.3265006900  0.8709815002  0.0762195894  0.5373779930
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##  1.6240495554 -0.1660432466 -0.5852068638 -0.2389630438  0.2296273170
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##  0.3344167261 -0.4351557310  0.6330203102  1.8957803632  1.1176137688
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##  0.5282978739  0.4828063378  0.9331723861  2.3622043677  1.8156672712
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##  1.8628811743  2.3984596229  1.4549816103 -0.0170169127 -0.5200551418

```

```

##
## 0.0766472543 0.8597600659 0.7733836350 0.6838349452 0.6171754703
##
## 0.6124365751 0.6547880133 0.9784812420 1.8075738937 1.3951096179
##
## 1.0180295077 -0.4539150461 -0.8822396811 -0.0018331640 0.2949541299
##
## 0.0510070228 0.1535263532 -0.0671143555 0.4095899845 1.3587704084
##
## 1.0837167453 0.7759611611 0.7429963136 0.9903102918 0.9054895810
##
## 1.4235870230 1.5284217289 1.0624775323 0.4509701844 0.2799376278
##
## 0.8337175161 1.3975103624 1.0602090051 -0.1037632513 0.3030466633
##
## 0.9248388500 1.4289350535 1.8030057939 1.6485924720 1.0528200960
##
## 1.1477861677 1.7392312718 0.0842376920 -0.4561326342 0.2822039821
##
## 0.7492297136 0.7654424619 0.8956575199 0.4401420253 0.3435477956
##
## 0.4099916248 0.5964455004 0.1958284335 -0.2277040219 0.6036923259
##
## 1.3413925959 0.5677788468 -0.2091856790 -0.1324550785 0.2309554883
##
## 0.6167099123 1.0827627437 0.5357716085 -0.1567557842 0.1597841013
##
## 1.2208575883 1.7742953532 1.9004675631 1.4864571419 0.6762370678
##
## 0.9065429137 1.4862846716 -0.0579908890 0.2150311554 0.8631161677
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## 1.1614733966 0.9823994508 0.2986726230 -0.1123384324 0.2155205297
##
## -0.3950512645 -0.0179485775 0.2113808562 0.7993876067 0.2423294646
##
## 0.0889088345 0.1937512282 0.3470260393 -0.1018420962 -0.1563979640
##
## 0.4419216340 0.6408483578 0.5827336145 0.3798990839 0.8371620809
##
## 1.4628796375 1.2994408614 1.1676354837 1.3434327055 1.3413689015
##
## 1.1063309644 -0.8974577327 -1.0080841499 0.3613401537 1.3074474012
##
## 1.2616623751 0.3999040647 -0.5985251361 -0.3499266050 -0.5933974132
##
## -0.1375786566 0.3675668242 0.8664544506 0.9691016866 0.4652822721
##
## -0.1744129690 -0.1937940965 0.4103997974 0.8276629830 0.9969227917
##
## 0.7487957265 -0.4664185001 0.8093661942 0.5061348671 0.5676036644
##
## 2.0348186607 2.3840381795 0.1412387242 -0.8424920210 -0.7247558313
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## 0.4022892944 1.0836633990 0.7821383003 0.1256382981 -0.3879880452

```

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##
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## 0.0904903970 -0.0394013351 0.6759814072 0.9004671398 0.2874666453
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## 0.9418168062 0.0291106267 0.5578463732 0.8426335108 0.5947212975
##
## 0.8113179208 1.3308581930 -0.0271367770 0.1008108848 0.5066597028
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## 0.7250666742 0.7898764309 0.3537835248 -0.4034908781 0.2704516340
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## 1.2715616583 -0.1482756311 0.1597707642 0.4534890762 0.3598366809
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##
## 0.3276170364 0.4951225224 1.0818007104 1.1628114276 0.9682611447
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## 1.0217642894 1.1607526515 1.0749014529 0.9177653643 0.6658871737
##
## 0.5661486147 0.3403268592 -0.1106807854 0.5939029552 0.8454584641
##
## 0.4027129042 -0.3766383220 -0.2518443709 0.7272853239 1.0164407295
##
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##
## 1.6639461521 1.5330611519 0.9668169555 1.2577306505 0.8302904074
##
## 0.1496376274 0.1933167475 0.2084018322 0.1661787676 0.2117898985
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## 0.1428128032 -0.1456438305 0.4523702971 0.7202831348 0.0090827480
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## -0.3053822195 0.1306378393 0.3181546262 0.3904294161 1.1004215143
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## 1.3369766437 1.1728224706 0.7473130218 0.5048343674 -0.0581649607
##
## -0.3124302063 0.0964359054 0.0029857844 -0.5767470991 -0.7181143575
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## 0.0900477305 0.1798885535 0.6003816384 0.0046658400 0.1804792334
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## 0.4811309341 0.0702683930 0.7515273043 0.6883133490 0.6740658758
##
## 1.0257870550 1.0262334453 0.1246092046 -0.6209300991 -0.3510738853
##
## 0.4294663113 0.4332341895 -0.1406022246 -0.4645269904 0.1306417541
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## -0.1021019417 0.5203391882 0.9481433243 1.0629959638 0.6027828511
##
## 0.0750404281 0.1470437098 1.1176961226 1.9047842797 1.5345051115
##
## 0.1565954083 -0.5254919096 -0.1881880437 0.5668107165 0.2831207746
##
## -0.2067871429 -0.2465912904 0.2850184692 0.3690459167 0.5365164616
##
## -0.0145235839 0.5903842795 2.0394780734 1.8482166679 0.9071320016

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##
## 0.3375676602 0.7872849886 0.6344680383 0.5916837354 0.2126159613
##
## -0.3149620339 -0.3436692866 0.1849829084 1.3325899113 0.6313382786
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## -0.2415314584 -0.1475840698 0.6158560492 0.1986139297 -0.1435478004
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## -0.9917965216 -1.3414534174 -0.1180670956 1.3214913132 0.5961859847
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## 0.9503394000 -0.5210486004 -0.0569669172 -0.0969955853 -1.0779149205
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## -0.3233549774 0.0896377221 1.1082093035 1.4392614826 0.6913432722
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## 0.8033099406 0.9023017946 0.5025140934 0.5577343669 0.5105348829
##
## 0.0499247646 0.1259362302 0.5156207161 0.8648402270 0.8045871840
##
## 2.3280516038 1.7221575869 2.2206816627 3.6412374268 3.4749249247
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## 1.6807959708 0.5808534497 -0.2199629698 0.1804320057 0.1131964725
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## 0.2617968496 1.4064015724 3.4702713365 4.4214977953 3.1555830520
##
## 2.0256465932 1.6856745689 0.7993004514 0.2262799216 0.4061162547
##
## 0.6378235440 0.8044735431 1.1069099728 0.7584285895 0.8159419105
##
## 1.4860825476 1.5121157111 1.4058121655 1.5238387055 1.6493842641
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## 0.3581205049 0.0974816129 0.1804204903 0.6891605831 1.4295133513
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## 0.0744834578 0.6481889279 1.1130449248 0.8701774091 0.0346070901
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## 0.5937572615 2.0018331686 1.6197480050 0.7031057304 0.6294999520
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## 1.4129130086 0.9890597955 -0.0052750817 -0.1320963543 0.5463467753
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## 0.9305332255 0.7217587079 0.2980144615 0.4922960720 -0.0453786769
##
## -0.3703583737 0.5025476937 0.3414609982 -0.1008687778 -0.1268711473
##
## 1.2947602220 1.0296118739 0.2823662593 0.4448586587 0.5251911670
##
## 0.3484673369 0.6609755015 1.1109316821 2.3080259991 1.8277423467
##
## 0.6830451913 0.0862900716 0.3011504012 0.3623655026 -0.0972293828
##
## -0.2249986464 0.4048241374 0.5198395180 0.0085560004 0.1665692935
##
## 1.3123563046 0.5673261512 -0.0659646476 0.2844433818 0.2496228815

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##
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##  0.7818560760  0.7604901278  1.6005568072  0.9306602729 -0.0094671624
##
## -0.4589818168 -0.2909696797 -0.0106203235  0.1990588978  0.2831444153
##
##  0.6178335730  0.2926314074 -0.1462252650  0.4632373048  1.8509928538
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##  1.0503900180  0.3575596306  0.8456561250  1.3549443636  0.7817190475
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##  0.0990394174  0.6331588816  0.9298927784  2.1375715127  2.8900247451
##
##  1.8372470490  0.4580222517  1.3679162949  0.3021869195  0.1212561074
##
##  0.4530190901  0.5647257717  0.2585846009  0.9544187477 -0.0026011525
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## -0.4258010138 -0.4944263132 -0.0823914634  0.5176087909  0.7090632163
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##  0.1670621546 -0.1717818911  0.1479415173  1.2680422483  2.0002693528
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##  1.8353546493  1.0759204225  0.7039252258  0.7708850106  0.8533252320
##
## -0.2161121806  1.4354927525  1.5925706238  0.6683790811  0.9897586528
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##  2.0385593788  2.5505181749  1.6985836285  0.2258838157  0.5557743090
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## -0.1161889089  0.1527194301  0.9376274379  1.0159274175  0.4229652279
##
##  0.5913601208  0.0561765684 -0.1309474883 -0.2071217042 -0.1145972655
##
## -0.0500713391  0.0023096787  0.0224314892 -0.3659525292  0.3153867853
##
##  2.2824974275  3.0234153013  1.6709603953  0.5498953465  0.3352648437
##
## -0.1998157862  0.2139916713  0.5258875120 -0.2185917763  1.1064724721
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##  1.7874552967  0.7745376339  1.0898088379  0.9792174595  0.6766990132
##
##  0.4383980648  0.3691554015 -0.1661634769  0.4327268957 -0.1073938153
##
##  0.2233354186  0.3961233603  0.3504920329  0.4006479853  0.2922337228
##
##  0.1567946342  0.5101996329  0.5676190336  0.0738086057 -0.0688808647
##
## -0.0835893790  0.5718686466  2.3226187313  2.6691205782  1.3175431524
##
##  0.2563534698  1.1881824436  1.2325002384  0.6021765410  0.3717719759
##
## -0.2437498908  0.2372570808  1.2376140479  1.8945484166  1.9337685316
##
##  0.7005455798 -0.1350674385 -0.2924027388 -0.1727260348 -0.3125936396

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```

##
## -0.5649277258 -0.4569639141 -0.0568214240 -0.2380726977 -0.4032360519
##
## 0.3375414290 0.3186945967 0.5462927473 0.5080369086 0.1408127606
##
## 0.0552828230 0.0744669348 0.5012172818 1.9899874546 2.0831629209
##
## 0.7683547559 -0.2660040287 0.4048568348 1.6213370134 1.5224940049
##
## 0.8944121578 0.4249761304 0.4077516283 -0.0610919789 0.3392522374
##
## 0.7783994169 1.4101892038 0.9572078895 0.2056489185 -0.0446531688
##
## -0.0337564594 -0.3857821344 -0.1601573558 -0.3061545537 -0.0083451456
##
## 0.4155495856 -0.0124857054 -0.1964980478 0.0612609936 0.0460463573
##
## -0.1336766700 0.0043600306 0.5464570583 0.6362510191 0.2906303251
##
## 0.1197520772 0.7843797926 2.3972781021 2.3991691824 1.9552942701
##
## 1.0962892548 1.3444714942 1.1839987050 1.0799701624 0.8079590375
##
## 0.2184713694 0.9429791521 0.6515592345 0.0514517828 -0.3680469325
##
## -0.3083432818 -0.2915382699 0.7538155202 0.9078824747 0.9762759286
##
## 0.9023200794 0.0387207218 -0.5644078472 -0.0592003753 -0.4161840685
##
## -0.6885808225 -0.3974068411 0.2172684113 0.3789923208 0.2040030930
##
## 0.4510646599 1.4686973919 2.7926909805 1.9092865886 2.5138077933
##
## 2.6775225712 1.3309341643 1.7200083174 1.3488358969 0.4739606449
##
## -0.3831959475 -0.0538941245 -0.2746349305 -0.6455830950 -1.2966830286
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## -1.2074924232 -0.5637708988 0.1096397879 0.3715863798 0.3574480520
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## -0.0359332172 -0.5108294664 -0.3223534662 -0.2528012049 -0.5680599719
##
## -0.3194524191 -0.0952448921 0.2315208005 0.1210827137 0.6554879399
##
## 2.1098342087 2.9883631916 1.6083448418 2.1172784542 1.7220589277
##
## 1.1117866059 1.4763729875 0.8276507476 -0.0074025729 -0.5608308033
##
## -0.8569999675 -0.6914247811 -0.9457349080 -1.1518559828 -0.7716966721
##
## -1.2538833981 -1.1052981065 -0.6045107146 -0.5088752773 -0.4939743512
##
## -0.5481487364 -1.1538185136 -0.1476696577 0.1106920996 -0.0023680283
##
## -0.6563085701 -0.2927484136 -0.1385968164 0.3427327142 1.6627597557

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```

##
## 2.9914510998 1.3302742203 0.3847244364 0.7980438206 1.1005325048
##
## 1.2338023946 0.2380974286 -0.3110574206 -0.0782656592 -0.5115614288
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## -0.0406461924 0.5667141088 0.0492169584 -1.1125433256 -1.4606006676
##
## -0.8898004072 -0.8682993448 -1.2157685493 -0.9844178109 -0.7767663917
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## -0.0162737076 0.1752730614 -0.7794212963 -0.6590418236 -0.1312112031
##
## -0.2526111308 -0.2001636451 0.2883400157 0.3383561504 -0.0166566769
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## 0.0086833252 1.2336188922 1.2589262028 0.1796821915 -0.5788074476
##
## -0.3184386281 0.0111639811 -0.0366138891 0.1394199149 -0.4715462835
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## -0.5964479636 -0.7948866998 -0.5813622699 -0.3918608363 -0.3608877048
##
## -0.2390709225 -0.1037702765 -0.3548860492 -0.0648438370 -0.1224542328
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## -0.3524383734 -0.1831008684 0.5144578231 0.5302148486 0.0182832825
##
## -0.3902928335 -0.5857343915 -0.1526998981 0.7252601152 0.5021385223
##
## 0.3894526309 0.2456061807 0.0035821091 -0.3060532608 -0.2983196745
##
## -0.1923010998 -0.7500045095 -0.6775936013 -0.0172387326 -0.1942171277
##
## -0.4981479102 0.0035363937 -0.0558686884 -0.1138183136 0.2870894534
##
## 0.4860173154 -0.1947899477 -0.2575900153 -0.1919968222 -0.1959204018
##
## -0.1667525025 0.5159358046 0.9735045580 0.5819726900 -0.1020352793
##
## -0.3146399530 0.0020755976 0.9461129983 0.6608224407 0.7118121618
##
## 0.6018991751 0.2547490225 -0.1026588890 -0.3002844753 -0.4029159699
##
## -0.1875704947 -0.4677962581 -0.5190911519 -0.7943703414 -0.3735771496
##
## -0.2083449488 -0.3495225201 0.3113757714 0.7786919471 0.0434771896
##
## -0.4022113740 -0.2370965660 -0.3072232325 0.0371916958 0.5133611832
##
## 0.5643018587 0.4098730900 0.5132234198 -0.4699956434 0.7410387247
##
## -0.0419640085 0.3986216982 0.4790154031 0.1539542239 -0.0365322600
##
## 0.2182887790 0.1570387993 0.2007986104 0.1481581271 -0.5257942793
##
## -0.2839104006 -0.0163989234 -0.6791719427 -0.5252544444 -0.0468075697
##
## -0.1540899370 -0.2105773542 -0.0589994095 0.0148137314 -0.0222477067

```

```

##
## -0.1982852100 -0.0917509680 0.0809479097 -0.0633845905 -0.4307882902
##
## 0.7462830513 -0.4238958712 -0.6193304253 -0.3715836384 -0.1890551035
##
## 0.3313440829 1.2656725296 1.0664357300 0.5413301804 -0.0591458487
##
## 0.3416949065 0.3457935689 -0.6295427203 -1.1754413319 -1.3065467483
##
## -0.9836776511 -0.3441334507 0.4854229295 0.7725459924 0.4295620556
##
## -0.2349255767 -0.8212311170 -0.7914185361 -0.4618962684 -0.2141508119
##
## 0.4936753442 -0.4612445609 -1.1472900931 -0.5952828325 -0.3334377998
##
## -0.1835410447 0.2771734398 0.5833183707 -0.0775679536 -0.3506887715
##
## -0.5392345308 0.1196112411 0.1615468196 -0.0071461776 -0.8601607338
##
## -1.1301800666 -0.9202193362 -0.7774506277 -0.6263296120 0.6251736075
##
## -0.3856947780 -1.6366170231 -0.4194910313 -0.0427710770 -0.2283831717
##
## -0.4116636758 -0.3900318708 -1.2423160587 -0.5434091296 0.4901369956
##
## 0.5425526380 0.0456968686 -0.1567180806 0.1982690934 -0.4553164167
##
## -0.3125312628 -0.5573817810 -0.7791560496 0.6306230639 -0.7539406180
##
## -0.7567006441 -0.5920466709 -1.0233035001 -0.9032652885 -0.8265835090
##
## -0.6961074470 0.9217807716 0.5318079964 -0.6867594471 -0.6796059215
##
## -0.1424939351 -0.5793213885 -0.6128323591 -0.8644281117 0.2826538651
##
## 0.2466212065 0.0208375011 -0.1405037187 -0.0987781456 -0.0700887592
##
## -0.7333347888 -0.3194852647 -0.2520081628 -0.5801466777 -0.1148996242
##
## 0.9725799263 0.2999137361 -0.7780715769 -0.7829182606 -1.1635888049
##
## -1.1670507982 -0.8648825456 -0.2469032409 -0.1045474061 0.7476460059
##
## 0.7719445370 0.0440715243 -0.5159827404 -0.2204683634 -0.6284561921
##
## -0.3523968756 0.4181284293 -0.0372167799 -0.0183170936 0.0245351545
##
## -0.0091366435 -0.1882221216 -0.4719048613 -0.6497972199 -0.3909922122
##
## 0.0837374546 -0.0323032973 -0.3034260940 0.1640451042 0.1661295201
##
## -0.4469234040 -0.8411333982 -0.9713911832 -0.8936070991 -0.3987918275
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## -0.1548863080 -0.5457544464 -0.0661825708 -0.2526266503 0.2581880330

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```

##
## 0.1083259219 -0.0381723124 -0.1564253187 -0.4251388393 -0.6768137425
##
## 0.1298175718 0.0944692846 0.7772509098 0.8311270037 0.4614058583
##
## -0.2540358070 -1.0591754043 -0.2875847562 0.1181128361 0.1801015792
##
## 0.1434497000 -0.2190482851 -0.4478711383 -0.4420864876 -0.3055532948
##
## -0.7320941983 -0.5145136181 -0.2126442483 -0.0502447701 -0.1168545148
##
## -0.3152182968 0.2508930398 -0.0559293747 -0.2395839063 -0.0805974556
##
## -0.5639381192 -0.4101028116 -0.1726084497 -0.8912481719 -1.7861852469
##
## 1.9511580129 2.2940752602 1.6120609901 0.8474018187 0.5681933378
##
## 0.2732074244 0.2952165941 0.0669946680 0.1209410412 -0.2553875634
##
## -0.2396836627 -0.3079105287 -0.2801870723 -0.2376344106 -0.0732750341
##
## 0.3050464798 -0.2901877998 -0.4221836974 -0.3471981839 -0.1439650490
##
## 0.2090213558 0.4150945570 0.2397370997 0.0145456005 -0.1452269000
##
## -0.3126002806 -0.4571136691 -0.5531404120 -0.3018553649 0.5635888674
##
## 2.0984143786 3.1206877501 0.9331577791 0.0839370874 0.1814560763
##
## 0.4013663173 0.5574846859 0.0078874485 0.2742186047 -0.3718520991
##
## -0.3480809075 0.2872703267 0.5144911930 0.5410251519 0.8215567768
##
## 0.3347441945 0.9140829086 0.7384576310 -0.0994684722 0.0408164092
##
## -0.2544848808 -0.2314151552 0.4490081177 0.9794057121 0.9684488749
##
## 0.4546732558 -0.2059563766 -0.1625574251 -0.2548856830 -0.0198274732
##
## 1.2893865677 3.1334569844 3.4182358345 3.7660173529 1.1277924152
##
## 0.2230122921 0.1303829389 0.3269007398 0.6841976820 0.0931196121
##
## 0.6225853248 0.5111952764 0.2750886613 -0.2017258489 -0.0469103541
##
## 0.7307941106 1.1510755029 0.9687355515 2.2876250986 1.4336116829
##
## 0.3204655033 0.7337366525 0.3001042959 -0.1790292229 0.4839583980
##
## 1.5626168736 1.3924038096 -0.1292174797 0.0453448836 -0.6649442770
##
## -0.2649392584 0.8488942882 2.5933475639 4.0937247581 4.1811613446
##
## 0.8506682891 0.6818070428 1.0209672153 0.9105609213 0.4790289087

```

```

##
## -0.0072727023  0.4826293245  0.5669848341  0.6576478615  0.0415461380
##
## -0.0231278142  0.5948909475  0.9422512329  1.2626369127  2.6536888440
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##  1.7677444411  0.3006396185  0.4673395493  0.5274331787  0.1121568843
##
## -0.4199717876 -0.1882760785  0.3664655965  0.1504463766  0.7630903207
##
## -0.1464703035 -0.0455157172  0.8602702265  2.4042058169  3.7605595114
##
##  0.8738435972  1.0814941136  1.6505975910  1.7271786319  0.9232027308
##
## -0.3991410780  0.1119464796  1.0384968658  1.1314667695  0.5388691719
##
##  0.1029178760  0.3301990876  0.9457303405  1.5657007375  1.8490490625
##
##  1.4770469538  1.1075853165  0.0113089981  0.1652363733  0.3414837203
##
##  0.2448873536  0.2321551425  0.4824384710  0.4544101889  0.5066725434
##
##  0.1308989244 -0.0670578883  0.2732954199  1.2884832154  1.1968591196
##
##  0.9563236618  0.9848421289  0.4930677846 -0.0696138942  0.6882614435
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##  1.2602009326  0.9080904070  0.5584883552  0.4002713036  0.9110736213
##
##  1.9801815465  2.3337183005  1.1606267133  0.7940293829  1.5021904684
##
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##
##  0.4233174144  0.5532279827 -0.3237195621 -0.1262318370  0.9954372637
##
##  1.4262861861  1.2290896982  1.0601903836  1.0047017036  0.3569267985
##
## -0.3348106363  0.3627277829  0.8887817048  0.5079520440 -0.1105620415
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## -0.7184278171 -0.7019571258  0.0284091673  0.6518403216 -0.0875931929
##
##  0.1408332444  1.3910514569  1.0412638514  0.9748759257  2.0596047368
##
##  2.2064091720  0.7213731128  0.2969071712 -0.5431753658  0.1914365186
##
##  1.5041789243  2.1003912496  1.5270610659  0.5796962435  0.2229692878
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##  0.4617098315  0.5588516047  0.0335380479 -0.1787645981  0.2325029734

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```

##
## 0.6394052204 0.5375664466 -0.1650222674 -0.2682257359 0.0437479156
##
## 0.4503424282 0.2167489334 1.0067484655 3.1191029850 3.5880358856
##
## 1.5214159021 1.3699071653 -0.3572440836 -0.0692667496 0.7169619013
##
## 1.1960214634 1.4062967433 1.2910157328 -0.1174508668 0.8007615366
##
## 0.2162109797 -0.1281181171 0.0586430721 0.2984817510 -0.0146037038
##
## -0.6098723904 -0.4158665474 -0.2370216670 0.4801157852 1.0497795428
##
## 1.8288093356 2.1500262761 0.8774784984 0.9510910568 0.9519111541
##
## 0.9815324841 0.5864980909 0.1353337278 0.2728158410 1.1514562004
##
## -0.3892999687 -0.0159360284 0.6236991325 0.4159667372 -0.4312359757
##
## 0.3663254144 0.1606387132 1.1153077715 1.3974092519 1.0592102320
##
## 0.8791013626 1.0134305156 0.9377827176 0.7840982615 0.5265458826
##
## 0.4950430700 0.2420038963 0.0935265474 0.8676677846 0.2919375094
##
## 0.5644887053 0.5174691958 0.3067972737 1.0675426289 0.0311416229
##
## 1.0502724635 2.1728457528 1.8828192039 0.8736513152 0.8053518792
##
## 0.1855932448 -0.0086080030 0.2323160592 0.4620691161 0.3317052554
##
## 0.0426738978 -0.3542945364 0.2810501894 1.1384108280 0.4192877268
##
## 1.5643514056 1.1431584755 0.1524753806 -0.2078050399 0.1651766949
##
## -0.3909104493 -0.3249175405 0.2346352567 0.4391977898 -0.0227965811
##
## -0.6144009922 -0.3103828772 -0.4078545942 0.3326414738 0.9299120385
##
## 0.4524498131 1.0844087885 0.1935336156 -0.2111497049 0.4068502458
##
## 0.2071299670 -0.5919170032 -0.3509746271 -0.0217992258 1.4672662910
##
## 1.0551784176 -0.1316177002 -0.4635424601 0.3540445289 0.4470207109
##
## -0.0646719077 -0.4302393310 0.9266652419 -0.4951839149 -0.0281636853
##
## -0.7944961825 0.3985851692 0.0197466714 -0.0361789584 -0.0209543626
##
## 0.4768181247 1.8493291831 2.4201195131 0.3135062749 0.6822567924
##
## 0.8602957203 1.5553164964 1.1470360406 0.4689997563 1.0001725310
##
## -0.6355159508 0.2096240096 0.7269444261 -0.2761746888 0.2778818827

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```

##
## -0.0237098249  0.3204083665  1.2257681638  1.3302379235  1.5276734114
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## -0.1197456135 -0.4604439849  0.2679058981  0.4186150805  0.2314434717
##
##  0.7920865235  2.2729769310 -0.0062830621  0.2437020262  0.8881691671
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##  1.4842375810  1.0499148295 -0.0194305788  1.5751630347  0.6218178502
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## -0.0476016675  0.4507475215  1.2195895392  0.8981193888  1.7871544313
##
##  0.1527987295 -0.1248290246  0.0562236042 -0.0803271093 -0.1859888068
##
##  0.2157422743  0.7855064283  0.0502102989  0.1624228027  1.7144552841
##
##  3.7609382366  2.5076794642  2.9980566389  2.6780642827  1.8378208736
##
##  0.8784821525  0.5721387344  1.5862933740  0.5904166823  0.1897973882
##
##  0.3794332182  0.7725307661  1.0829342140  1.3666218364 -0.1524294901
##
##  0.0269721259  0.3164950964 -0.1133776672 -0.5095409279  0.4062863735
##
##  1.1088629527  0.1648252635  1.3122251519  3.2543209160  3.1864249330
##
##  2.1820530483  1.8731897374  2.2364008297  2.2216045682  1.4253587219
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##
##  0.6369076886  0.7480888610  0.7304557238  1.1187627881  0.2838486874
##
## -0.2047854680  0.1865985922  0.3560038507 -0.0902279987 -0.6441654202
##
## -0.1279061170  0.3378007203  0.4470951381  1.8274235733  2.3942256491
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##  1.4170274435  0.9296792646  4.0873408826  1.2027489919  0.9234118245
##
##  1.6259789332  1.1769823067  0.5157505317  0.0973824132  0.0600505536
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## -0.4931066192  0.2636470215  0.1256513142 -0.2989495127  0.3128159348
##
##  0.6620359674 -0.1532207760 -0.4984596827  0.0232539974  0.0595680438
##
##  0.2102947017  0.1460603260 -0.1602949873 -0.4943188622 -0.1715646836
##
##  0.2517036154  1.3641773485  1.6427563019  0.6901057180  0.1078261844
##
##  2.5535750411 -0.2089135180  0.3112330832  0.8682822516  1.1622573299
##
##  0.1515748117 -0.2881576966 -0.4308787509 -0.6165248141 -0.5228720383
##
##  0.5592167491 -0.3167167430 -0.2073539679  0.1806015318 -0.1441163438

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##
## -0.5235032800 -0.0600423897 -0.3730060077 -0.2293618918 -0.0497172582
##
## -0.2730470758 -0.6034331283 -0.3474722106 -0.0319644162 0.6201856259
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## 0.7866484099 0.2376206050 -0.4219803677 0.0961781040 2.7389595974
##
## 0.6918808122 0.1188372200 0.3352594432 0.6714410505 0.6573412348
##
## -0.0176445334 -0.2938831541 -0.3821090335 -0.4368866859 -0.3247979630
##
## 0.1634852010 0.1916966969 0.4350769493 0.4705137825 -0.1812827542
##
## -0.8106887368 -0.9259450042 -0.8135078429 -0.6303317045 -0.3348621430
##
## -0.0526222051 0.1626559356 0.0444670955 -0.1373014669 0.0474281625
##
## 0.0222807021 -0.0751272362 0.3209231871 2.9742235872 1.8441493265
##
## 1.3306017722 0.6092060150 -0.2695013062 0.2608862968 0.5804522486
##
## -0.0256995840 -0.4394848652 -0.6508994414 -0.7389755312 0.5282557704
##
## 0.5745709786 0.9056153616 0.6964442725 -0.8232497487 -0.4868349943
##
## -0.6446312838 -0.1864047396 -0.0938544756 0.0691003732 0.5390326705
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## 0.3338945896 -0.6973970463 0.1419870765 0.1341452435 -0.2220783381
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## -0.0421579162 1.5964646972 3.8569222672 3.3168223006 2.0191834354
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## 0.3703689143 -0.2150097693 -0.1179220251 0.5932187204 0.3233626218
##
## -0.2182210499 -0.7424458432 -0.0626014838 -0.2883401802 0.3676112705
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## 0.3584857847 0.4321709772 0.1850417457 -0.0645373309 0.9420682653
##
## 0.3528438302 -0.3406909832 -0.2294875606 -0.1980639037 -1.4149514010
##
## 0.4672653374 0.3648956487 0.0650334362 0.0292524937 0.1632070545
##
## 0.7251720362 0.6324443275 -0.5491592485 -0.1639632652 -0.4407198835
##
## -0.0976384207 -0.0856140744 -0.3012701369 -0.4297024195 -0.4786505883
##
## -1.3194594665 -0.6466526363 -0.2002808823 -0.0883757162 -0.1329558092
##
## 0.1469516036 1.3776811796 0.5358081513 -0.3756476146 -0.7485859020
##
## -0.8881416350 -0.9681798988 -0.0338131802 0.1063809120 0.0421989022
##
## 0.0660085643 0.0550468984 -0.0038821694 0.5456526469 1.6104024939
##
## 0.1052275605 -0.6328836377 -0.2825567067 -0.4284543634 -0.4193619716

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##
## -0.3270848220 -0.5718992893 -0.1844468109 0.3573692525 -0.2597378098
##
## -1.1268452109 -0.9512831234 -0.4633356115 -0.3860782385 -0.2882746842
##
## -0.2892914844 -0.0712463205 -0.3112880928 -0.1448724365 -0.1030824350
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## -0.3889799333 -0.6315085249 -0.2127897691 0.0647505436 -0.1013083654
##
## -0.1195757517 0.1335456422 0.3323361368 -0.0227776589 0.9359540017
##
## 0.5540321749 0.1007083152 -0.1480982934 -0.2723811323 -0.5794422929
##
## -0.7567072310 -1.2974751792 -1.0603615747 -0.2913245592 -0.5507463509
##
## -0.5669847622 -0.5390350304 -0.2813021983 0.2322622288 0.3376332889
##
## -0.7685404217 -0.8205902814 -0.4763646306 -0.4974048539 -0.4552064263
##
## -0.3479063374 -0.2645818504 -0.1761879639 -0.0803091587 0.1561833945
##
## 0.3571074675 0.1063706633 -0.1349878183 0.2720528617 0.6216071947
##
## 0.7729280191 0.4215695455 -0.2841611990 -0.6444505717 -0.7664489917
##
## -1.0471264278 -1.1178945830 -0.8396957248 -0.5187270386 -0.0188649821
##
## -0.0145349785 0.0741146503 0.3833336456 0.3260351192 -0.3534312288
##
## -0.8549723162 -0.5715123828 -0.3394545175 -0.2741777837 -0.4342107081
##
## 0.2375000748 1.2024783795 1.1452161294 0.6919903047 -0.3181600200
##
## -0.2203725690 -0.0794678998 0.4288920853 0.7149037003 -0.3723460744
##
## -0.3468004652 -0.5267828114 -0.5860238052 -0.5148931570 -0.4014208103
##
## -1.2340515483 -0.2610551979 -0.0520547080 -0.5103059648 -0.0947180651
##
## 0.4307805247 0.0981428861 -0.4740349497 -0.9115412156 -0.6524186851
##
## -0.2038132719 -0.2214154631 -0.1329628942 -0.2175962850 -0.2478625200
##
## -0.2212756754 0.2092598475 0.6213914357 0.8492796243 1.1708524053
##
## 1.2746472157 0.3022688035 0.5158588904 -0.0459623185 -0.3260410143
##
## -0.1881979862 -1.1897076986 -1.0127867910 0.0449325189 -0.6899657584
##
## -0.7311904191 -0.1840793146 -0.1182061572 -0.2832425813 -0.6597210444
##
## -0.1262317129 0.4052594838 0.3911260625 0.1440669443 -0.4135329070
##
## -0.6811576595 -0.5385167107 -0.0563642906 0.0710029635 0.8978855307

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##
## 1.4045311453 0.8073409484 0.2948461535 0.7116009299 -0.1876435867
##
## -0.8153495758 -0.7291161088 0.0717927247 -0.4436021002 0.2450609597
##
## -0.3301595214 -0.8029395208 -0.6521449870 -0.5381719958 -0.3428537093
##
## -0.2585681169 0.1249409926 0.5040502309 0.3859906079 -0.0968608490
##
## 0.0641196838 -0.4370173858 -0.3613062226 0.1061050361 0.7835390832
##
## 1.0375776089 -0.0049907846 -0.1227927413 -0.3516970283 -0.8242068169
##
## -1.0250565714 -0.7022395388 0.2737295142 0.1941944820 0.7308403147
##
## 0.4068167228 -0.2799198389 -0.4583140274 -0.4584914900 -0.0668150474
##
## -0.1210018444 0.4293402285 0.5168207299 0.2638288669 -0.0369211400
##
## 0.5265241663 -0.0430488640 -0.6074080124 0.5393582862 0.6049200087
##
## 0.3474569256 -0.2155388565 0.3006101741 -0.7090550648 -0.7735168751
##
## -0.5843451211 -0.2725436145 0.2817440057 0.3087833046 0.6935795195
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## 0.7853301559 -0.0406399418 -0.3077684788 -0.3909084765 -0.1903967355
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## 0.2316323088 0.1902790587 -0.4119861356 -0.2148936918 -0.0220449510
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## -0.9432954074 0.5706618066 -0.0512297331 -0.6012081844 -0.2833047093
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## -1.0306085746 -0.4525618648 -0.0322917307 0.0422990528 -0.0609465900
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## -0.1443933453 -0.1121018579 -0.3217867406 0.4867246146 0.7049694783
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## 0.3322219355 -0.0843138554 -0.1313733871 0.7148920269 1.0307329720
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## 0.3762672394 -0.2991982558 -0.2414289212 -0.2540758646 -0.0168237092
##
## -0.1012335590 0.1767422813 -0.5446199926 -0.2830207388 -0.1714354032
##
## -0.7416087907 -0.3929482102 0.0847492758 0.1395947200 -0.1145507329
##
## -0.2270694166 0.0076371659 0.1690645741 0.0408624729 0.3787458760
##
## 0.3818962434 0.5838884803 0.4228172341 -0.5370251097 2.0936201580
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## 1.8306877033 1.2803093453 0.7087089962 0.2844756944 0.1990128855

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##
## -0.0393829691 -0.0289261174 0.1387893230 -0.5209544456 -0.4355015893
##
## -0.1181172813 -0.3069682171 0.1075555645 0.1713831401 0.3041309450
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## 0.1159157393 0.05444445617 0.1699435563 0.2669011411 0.1911113243
##
## 0.2299136791 0.1369678879 -0.3464542640 0.2071683585 0.5945745341
##
## -0.2523852762 4.1831349301 1.7815168499 0.5843648316 0.7344475833
##
## 1.4096052278 0.8686370643 -0.1231761856 -0.2345647200 -0.2461406326
##
## -0.0026222735 -0.0906153447 -0.1650824983 0.2567802301 0.3251927263
##
## 0.1745855691 0.6582495102 -0.0972541756 -0.1018886786 -0.1390069060
##
## 0.3321808176 0.9708436762 0.9568225914 0.6478341143 0.9101576315
##
## 0.8265355377 0.3945980757 0.2958388911 1.0146886420 1.7346247516
##
## 1.2815573497 0.0206380929 0.3184925497 0.9047215757 0.2637511836
##
## -0.1900504307 0.0713165134 0.3050889033 0.1601778174 -0.1342360995
##
## -0.2968666233 -0.0337868060 0.5686185352 0.7666596492 1.3337274353
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## 0.6155974776 -0.8386447719 -0.2767883151 -0.7744092189 -0.7627077157
##
## 0.5347137392 1.4043212195 1.2890011034 1.1648267758 0.7943653404
##
## 0.3933497914 0.0246175169 1.7201238250 0.6943480358 0.6352853788
##
## 0.6975513009 0.8915429768 0.5884401767 0.3075073963 0.8364694588
##
## 0.4260576839 -0.2564844662 -0.4625598459 -0.0900198408 0.3351963837
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## 0.8307323981 2.0797626678 0.7810925836 -0.2756965962 0.2927850426
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## 0.1289589331 -0.2282255725 0.3573666486 1.1901902969 1.2775409662
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## 0.7803518572 0.2211697630 -0.4904028465 -0.2430218676 1.8634332658
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## 1.9652210545 1.9193181568 1.1888779505 -0.1587626521 -0.0193974126
##
## 0.9258313357 0.7127101176 -0.0801879530 -0.4854326829 -0.2275750958
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## 0.3986696204 0.9392181811 1.1228631565 1.0320565783 0.3259870559
##
## 0.1897737078 1.1121874922 0.7240172909 0.3679418631 0.5393164037
##
## 0.6791809170 0.3621488537 0.1474598265 -0.9162068857 -0.2578636102
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## 0.6258268638 2.2736490032 1.0872684699 -0.9799981365 -0.3669215013

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##
## 1.1304513626 1.4300253173 0.4205794455 -0.4903175974 -0.1771460449
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## 1.0337410644 2.0308723845 1.6135312521 0.8857185751 0.5742148152
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## -0.1118339353 0.9919587150 0.9230938434 0.5695246272 0.6042648209
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## 0.7331148950 0.5847670699 0.1023678515 -0.6015117561 0.4299495443
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## 1.3525339402 0.5271020368 -0.2561735541 0.9869751634 2.0578547688
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## 1.3196491282 0.1543449155 -0.1351389330 -0.1290352327 0.9102355643
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## 2.2037774331 1.7389833961 0.1665166377 0.2149708834 -0.2503908582
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## -0.1224467530 0.3583959351 0.4404219475 1.1245402113 1.7542219965
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## 1.2189657296 -0.1269826791 0.5869529050 0.5606353558 -0.7691653171
##
## -0.1456144459 1.0127608371 1.8573196877 1.4947030203 0.8106322978
##
## 0.5556499638 0.3514987643 0.1557990930 0.8439417520 1.9833960150
##
## 1.6464112473 -0.4228788590 -0.3550754825 0.2134595915 -0.7957958084
##
## 0.0114330230 0.3645301156 1.1173748693 1.7952099866 1.2186217963
##
## 0.0179718124 1.9132677259 0.1013453328 0.2398623811 0.6402192741
##
## 0.8461476237 0.3923729298 0.4664619188 0.7805139909 0.1324463070
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## 0.4258516721 0.9200235140 1.5554813662 1.9699503632 1.0584433722
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## 0.6065002319 1.0028988502 0.6961146842 0.3268559318 1.0013306419
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## 2.1660670102 2.7104618464 1.7126076199 0.2783780913 0.1008410081
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##
## -0.5196782486 0.6380382426 1.2848964489 1.9862153698 2.1586589979
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## 0.8098196105 0.4928836967 1.2370537425 0.6010741630 1.1094661160
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## 2.5414321343 3.2732636166 2.1660550516 0.0153479769 -0.4775142563
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## -1.1466061239 -0.8149046573 -1.0635405099 -0.2498782711 0.8227357189
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## 0.4636103531 -0.1953145532 0.1702330742 0.7762149091 0.7446180782
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##
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## -0.1571739259 -0.6114474453 -0.7686249793 0.0996665544 -0.4384935471
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## -1.0104507143 -0.8911512316 -0.8428912309 -0.5935253770 -0.0073355943
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## -0.1594180251 -0.4615338222 -0.3957613337 0.7930649823 0.2737729307
##
## -0.1811451788 -0.3707836263 -0.1851934052 -0.0744044085 -0.0864377931
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## 0.0628042107 0.1111695947 0.6146548204 0.9073801690 0.6094898952
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##
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## -0.4627627724 -0.5758128939 -0.8148680069 -0.9429974161 -0.5374810007
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## -0.2199118570 -0.5988399902 -0.8439247777 -0.2730345871 -0.4253221171
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## -0.6597939036 -0.2609664489  0.0099495403 -0.4746125448 -0.5065711907
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## -0.5468230042 -0.4156454133 -0.1799065077  0.0182593524 -0.2030009287
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## -0.8943207991 -0.4928312127  0.4029472812  0.2752467343  0.4347619484
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## -1.1375778340 -0.8739583162 -0.6530616497 -0.1138602025  0.3981599244
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## -1.1655090660 -0.9414679797 -0.7728511057 -0.5535610023 -0.4019176608
##
## -0.2229187028 -0.1862263887 -0.2258277792  0.3114779987  0.4883291128
##
##  1.4681005497  0.4038912014 -0.6265831756 -0.7015257091 -0.3192753962
##
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##
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## -1.1506106752 -0.7221142169 0.4712100834 0.5090205145 -0.3811798089
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## -0.5405391474 0.4118987265 -0.0636621067 -0.3675253224 -1.1474054008
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## 0.6826429104 0.6428840791 0.0258383984 -0.1600396476 0.2968909241
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## 0.6674930348 0.3012103858 0.6793088400 0.3385596074 -0.2391386610
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## 0.1300811721 0.1708550194 -0.4171857505 -0.5832543456 -0.0105903756
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## -0.3855355455 -0.4338702478 -0.9816091806 0.1111438477 -0.1737916866
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## -0.6901260335 -0.4510887573 0.2147648665 0.0095570642 -0.8053860217
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## -0.2562274513 0.2612514438 0.2012253855 0.0697387790 0.4442699643
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##
## 0.2622554775 -0.4344511651 -0.3758206260 -0.1258754805 -0.2734855740
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## -0.5082973942 -0.4282939085 -0.8793529529 -0.2330389431 -0.1215278219
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## 0.1678569732 -0.2507196577 -0.5205317272 -0.1434660897 0.3201534684
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## 0.1180021295 1.0959203763 -0.0819051702 -0.7182732373 0.2714691113
##
## -0.0404601686 -0.3997920724 -0.2945663438 0.0906379129 0.3724836186
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## 0.2533815421 -0.0836959798 -0.0394997242 0.4229581426 0.1405892434
##
## -0.2504867509 -0.5736065706 -0.3407698809 0.0788587224 0.2666597015
##
## 0.2230539578 -0.0334306304 -0.4887895063 -0.2562824675 0.2276161430
##
## 0.6607862398 0.8181758342 1.0097343189 0.3596277229 0.3110822227
##
## 0.2637907571 0.1991198887 0.3812495012 0.2697773411 0.1221122286
##
## 0.1028651839 0.1239229321 0.3319112132 -0.3482560889 -0.1892542504
##
## 0.4446192255 -0.5002944595 -0.8708011166 -0.1169883507 0.2257866403

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##
## 0.1703454487 0.0461212349 -0.0755071462 -0.0428545844 0.3167329728
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## 0.9018599997 1.1209223287 0.7848656631 3.3892971854 2.0606426990
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## 0.4132383335 0.5798630979 0.2097627950 0.4637396350 0.4357301951
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## 0.2495072726 0.2032643814 0.1384472442 -0.0881533868 -0.6319548477
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## -0.3104338659 0.6771696614 -0.3078347770 -0.5800324110 0.5304538090
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## 0.3213009390 -0.1448015634 -0.3358735182 -0.2174742959 0.3440216580
##
## 0.9611296665 0.8371881704 1.1714354127 0.9158813269 0.8781835408
##
## -0.4825220513 0.0877209345 0.5597633170 1.1395340742 1.2339719110
##
## 0.7433001649 0.0577962193 -0.2215404091 0.2883949714 -0.1140332486
##
## 0.1197252967 0.5360209831 -0.2324133655 0.8122392694 0.2222011499
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## 0.0844921868 0.0845577682 0.2586709907 0.9917763519 1.5588236764
##
## 0.4198824697 1.4288379174 -0.3960385747 0.3097250448 0.1901570718
##
## 1.2156878525 1.7713348445 1.0130019909 0.2511094900 0.7082430728
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## 1.2446852550 0.1154808539 -0.3635840595 1.4645881370 -0.2943255105
##
## 0.6175625007 1.0671409321 0.9755843835 0.7693959487 0.6490032962
##
## 1.2800990164 2.1700533489 1.0404938890 4.4211461399 0.6090432373
##
## -0.0653243772 1.0036679670 1.5874037968 0.7303673932 0.3336348540
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## 1.2590397745 1.8432572363 1.1633527037 0.7053809280 1.3587702945
##
## 0.1079329975 0.4475157106 1.6372385861 1.2737430211 0.9547764810
##
## 0.7092362041 0.8980407712 1.5343955439 1.1796268714 4.0329823187
##
## 0.8621244342 0.2465838905 1.3546909026 1.6665873317 0.9637413638
##
## 0.4125287446 0.7498101191 1.2323772762 1.1387897141 1.4178085589
##
## 1.2296499037 0.2005479796 0.4620988145 1.6976706696 1.0266651656
##
## 0.7834125314 0.7250214975 0.7039384895 1.1093404720 1.4069008972
##
## 0.7786009815 1.4690805718 1.2885663614 0.5387057213 -0.1700306452
##
## 0.0207374095 0.8478257638 1.2856277534 1.4945343915 1.5930253929
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## 0.1848866893 0.2569343335 1.8547789708 1.0487599395 0.8227632586

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##
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## 1.5503454826 0.9642819045 -0.1514289533 -0.7097486148 -0.1669370442
##
## 1.2100374594 2.3084160174 2.2325395705 2.3462450062 0.5457040805
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## -0.4067953343 0.5816980229 0.2102235270 0.2669687341 0.4624190562
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## 0.8561499092 1.3981116467 0.4688157450 1.4723490986 0.7198181740
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## -0.8255660586 -0.8350962242 -0.3297086751 0.5497580691 1.5444470916
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## 1.4879669484 0.4225875662 -0.8408016486 -1.4621400221 -1.2583486700
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## -1.0616491430 -0.3447116112 0.8470475512 1.6552894354 0.7825521246
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## 0.7640174400 0.9279209473 -0.4142255427 0.3702579140 -0.0761640657
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## -0.5751580194 -0.3536276381 0.3744298489 0.4058216185 -0.7409416543
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## 1.7893331895 0.8618021634 0.1719686702 0.1352492096 0.8420801356
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## 0.4334592993 -0.4030336803 0.1696479372 0.2405305947 -0.7699988640
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## -0.5227627285 -0.4787912001 -0.4756373439 -0.3176884294 -0.3799659558
##
## -0.9627996875 -0.1295395866 -0.2496153144 -0.7088040163 -0.4445784796
##
## 0.1108531270 -1.0108986587 -0.5897212925 -0.7876130640 -0.6137613715
##
## -0.0625976802 -0.0679024213 -0.4422942514 -0.9438171465 -0.6987158056
##
## 0.6129268388 -1.3277946989 -1.1826451681 -1.2404433247 -1.5166239092
##
## -1.5275898156 -1.0251666724 -0.3136339762 0.0229435778 -0.9638004054
##
## -1.1263288428 -0.8378923771 0.6921654489 0.2183821936 -0.3524227823
##
## -0.8301265088 -1.2164825702 -0.7180689916 -0.6412894005 -0.6609646701
##
## -0.1376747900 -0.1105065393 -0.5614665461 -1.8903983434 -1.4368361460
##
## -1.0543609666 -1.3002400279 -1.3251524483 -0.4414780311 -0.1174224791
##
## -1.0184695043 -0.5497991946 -0.2612495576 0.7931288570 0.3873768697

```



```

##
## -0.3003294684 -0.7275373561 -1.6289231777 -1.2264851340 -0.8444382615
##
## -0.5673950057 -0.0352360488 0.4143140584 -0.0526305230 0.2195438314
##
## -1.8923384297 -1.0971916866 -0.4443995007 -0.5741320106 -0.9487522139
##
## -0.6385957529 -0.0738790798 -0.2749411146 -0.5156274382 0.4701997660
##
## 0.0320265306 0.3410216463 0.2404747518 -0.4325530827 -1.1649157065
##
## -1.3054913224 -1.2532673373 -1.1935264336 -0.7897660850 -0.3393635779
##
## -0.3271033500 -0.8430491671 -0.7005695410 -0.1140232075 0.0451411314
##
## -0.0853588341 -0.0452977737 0.1488176115 0.6576723244 -0.0770194286
##
## -0.1200063298 -0.3439034106 0.2148880105 0.3609562894 -0.1065123641
##
## -0.4238819877 -1.0541641470 -1.4991068309 -1.0112554013 -0.8831393470
##
## -0.4100997825 0.1717110546 1.0073685499 0.4993370536 -0.3619974272
##
## -0.3401556074 -0.0267975478 -0.1923359711 -0.4512723076 -0.1079360264
##
## -0.1640909916 -0.2126474885 -0.8383029570 -0.0220091829 -0.0166958246
##
## -0.0206460122 -0.1750029628 -0.5357746207 -1.0106941375 -1.1441648140
##
## -0.7775265305 -0.2058272217 0.2284136262 0.3297972035 0.4921678990
##
## -0.4394854172 -1.1608161046 -0.7721682569 -0.1411891633 -0.0037752036
##
## -0.1936948137 -0.4383071691 -0.4245443414 -0.9142377402 0.4016445316
##
## -0.2657417953 -0.3474015662 -0.4278464985 -0.6313642158 -0.4494932873
##
## -0.2027104285 -0.4499138164 0.2715620367 0.1883406806 -0.2645872671
##
## -0.4329309227 -0.3774419134 0.1657609447 0.3795981277 -0.0201041826
##
## -0.0852851800 -0.3363438899 -0.5322958847 0.9789887595 -0.0093836216
##
## -0.8755557763 -0.4879739085 -0.3172248691 -0.4444484155 -0.2241300250
##
## 0.0630522850 -0.3899051459 1.2831373815 0.6519615971 0.2875520770
##
## 0.3628305384 0.2983680809 -0.1043968287 0.0162316335 -0.5069688230
##
## -0.3999885669 2.4663195782 0.4840321516 -1.0749299887 -0.2321713827
##
## -0.2052996195 -0.2424089332 -0.0263020261 -0.0856308502 -0.3561991996
##
## 2.4016166693 0.6586063646 -0.1126747293 0.1223586588 0.2704925863

```

```

##
## 0.0536289257 -0.5490195930 -0.6610875445 0.3662335720 1.2739991756
##
## 0.1336864754 -0.4340091725 0.7239395860 0.2045790471 -0.0622518263
##
## -0.0371311737 -0.2351259237 0.1470504797 2.1731529727 -0.0904045187
##
## -0.5779186798 0.7296300439 1.4051720124 0.6146642813 -0.2154557867
##
## 0.0666046425 0.5127164410 0.8928167203 0.1354555337 0.0106535350
##
## 0.9444864226 0.4549508473 0.1538669022 0.0242797624 0.3812509812
##
## 1.5707639884 1.5188789479 -0.1590681695 1.1770293401 3.5896684106
##
## 3.3798025116 1.4902594727 1.1617204485 1.9527573170 0.8641946702
##
## 1.4833285404 2.2674604855 -0.2740404326 0.3570581302 0.7065357762
##
## 0.5995370873 -0.0422897433 0.3672174188 0.1757833097 2.3549189086
##
## 4.6340183314 3.7376001251 1.8832739192 2.2892294706 3.4582004497
##
## 1.4722378696 2.6507394059 4.8572673974 -0.8872076612 0.7433269277
##
## 1.5620937886 1.2012302031 0.6299155514 2.8993339574 3.8428006044
##
## 2.9208402243 1.5370312987 1.9539381691 2.8464627338 1.1463102492
##
## 3.4959125233 5.7917602114 0.6960914010 1.3999282313 2.0229159890
##
## 1.0731248135 1.0342494469 -0.3077230742 0.6623553487 0.2549618343
##
## 1.1685107582 -0.4142978265 -0.6027498858 -1.8232714060 -1.0527333173
##
## -0.2615400703 -2.8329738888 -2.2748311573 -1.0959769672 -0.8966337284
##
## -1.1843443524 -0.5986007139 -1.6073084709 -0.5309950103 -0.5480324252
##
## -1.6451594033 -2.6225369844 -1.4596488894 -0.9177830376 -0.9723732478
##
## -0.5503719649 -1.9010371600 1.1208062408 -0.9045027927 -1.2103186591
##
## -0.0955014286 -0.5587270267 -1.3454530059 -1.5450773905 -1.6599664535
##
## 0.4921158773 2.3795785926 -0.3738497190 -1.8887260194 1.2697656685
##
## 0.6449900529 -0.6706682463 -1.4570922833 -0.8500849314

```

As indicated above, the dimensions are 360 X 21764 as expected.

```
fmri[172, 2014]
```

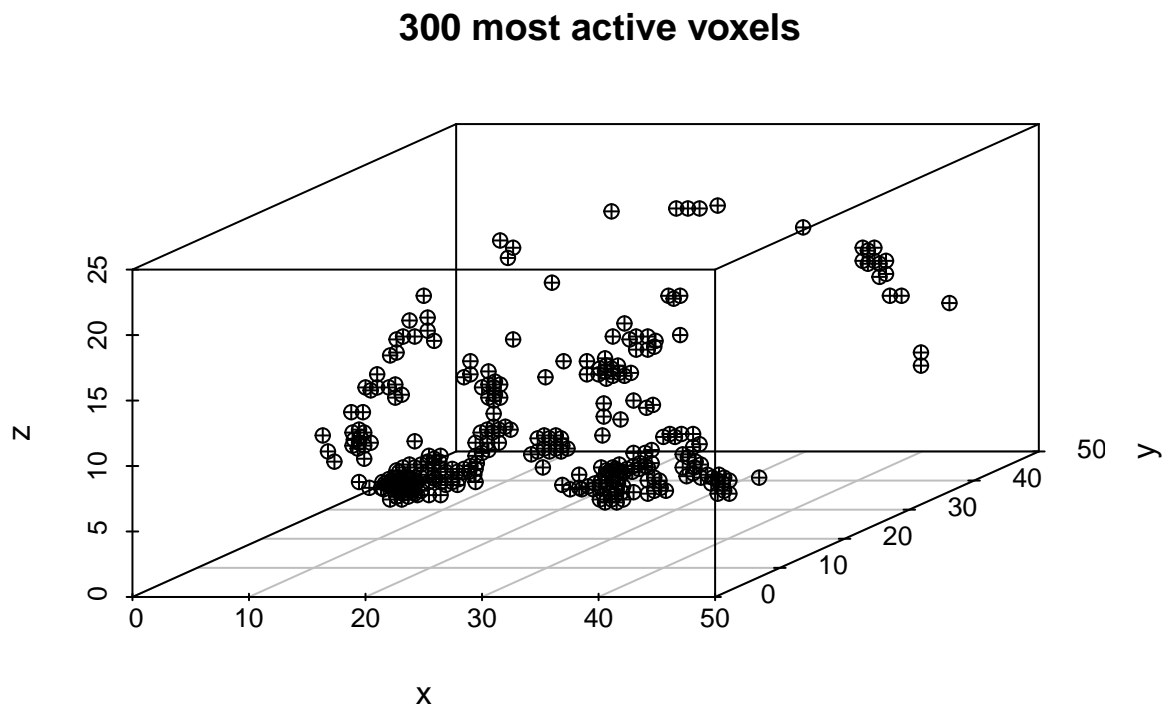
```
##
```

```
## -0.06624457
```

As indicated above, the value of `fmri[172,2014]` is  $\approx -0.07$ .

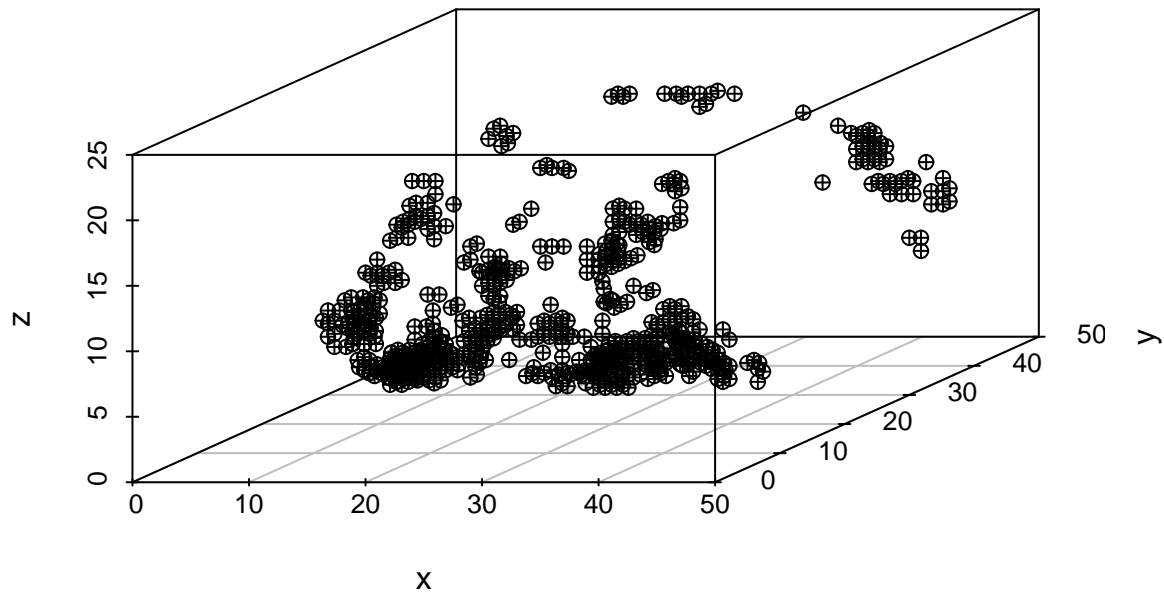
## Question 2

```
# load the scatterplot3d package
library(scatterplot3d)
# total number of features
p <- 21764
# store the coordinates needed for the scatterplot in col2coord
col2coord <- fmri.p1$meta[[8]]
# compute the means of each column in the fmri data
ave.colMeans <- colMeans(fmri)
# finds the rank of each voxel
rank.fmri <- rank(ave.colMeans)
# we go in reverse order due to the rank() function to get the 300 most active voxels
scatterplot3d(x=col2coord[rank.fmri>(p-300),],pch=10,
  xlab="x", ylab="y", zlab="z", main="300 most active voxels")
```



```
# repeat as above to plot the 650 most active voxels
scatterplot3d(x=col2coord[rank.fmri>(p-650),],pch=10,
  xlab="x", ylab="y", zlab="z", main="650 most active voxels")
```

### 650 most active voxels



### Question 3

```
# Doing the PCA
fmri.pca = prcomp(fmri)

# Obtaining the loading vectors for each PCA
fmri.latent.sem = fmri.pca$rotation

# To obtain the variances, we first find the standard deviations for all of the principal components. W
variances = fmri.pca$sdev^2

# To get the fraction of variance for PC1, we divide the variance for PC1 by the sum of variances across
variances[1]/sum(variances)
```

```
## [1] 0.1284251
```

### Question 4

The number of principal components is determined with  $\min(n-1, p)$ . In this case, we need the min of 360-1 and 21764, which is 359.

## Question 5

A biplot would be very bad because our data is very high dimensional, so we have a lot of principle components. The vectors representing the principal components would overlap each other and we wouldn't be able to tell what's going on around the source of the vectors.

## Question 6

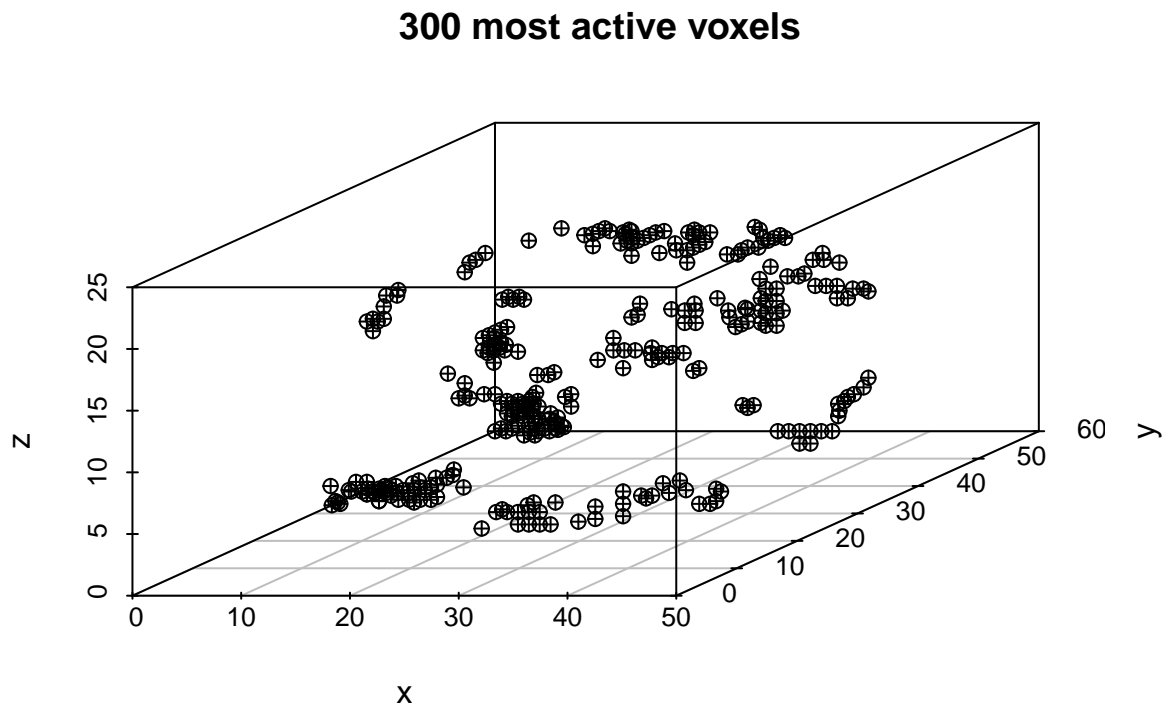
```
# This code is finding the number 300th highest loading value for the first PC. We sort the absolute va
```

```
sort(abs(fmri.latent.sem[,1]), decreasing = TRUE)[[300]]
```

```
## [1] 0.01972067
```

```
# We plot the 300 voxel coordinates which have indices matching the top 300 absolute values of the PC1
```

```
scatterplot3d(x=col2coord[(abs(fmri.latent.sem[,1]) >= 0.01972066),],pch=10,  
  xlab="x", ylab="y", zlab="z", main="300 most active voxels")
```



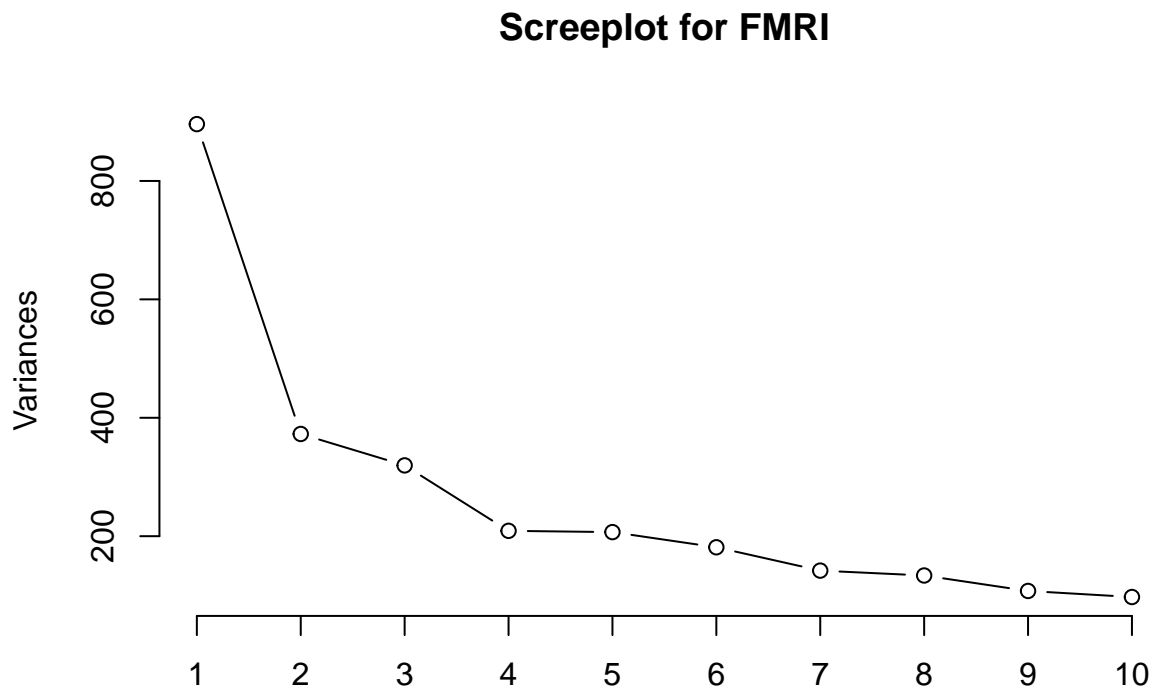
```
## Question 7
```

The plots from 2 and 6 are different. This is because they are graphing different things. The plot from 2 is simply graphing the voxels that have the 300 top average row values from fmri. The plot from 6 is graphing the voxels with the top 300 most extreme loadings, which relate to the top 300 most correlated coefficients to PC1.

## Question 8

The optimal number of principal components is two, since this is the smallest number of principle components at which an adequate amount of variability is explained.

```
screeplot(fmri.pca, type= "lines", main="Screeplot for FMRI") # create a screeplot for FMRI with lines
```



## Question 9

```
colors= c("red", "blue", "green", "orange", "purple", "pink", "blueviolet", "powderblue", "yellow", "cyan")
bins= cut(fmri.latent.sem[,1],10, labels=colors)
scatterplot3d(x=col2coord,pch=10,
  xlab="x", ylab="y", zlab="z", main="Voxels binned by PC1", color = bins)
```

### Voxels binned by PC1

