HW 7 STAT 5014

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Problem 2

Part a

I wasn't able to find the issue with the posters code.

Part b

Here is my code for the bootstrapping problem. The first thing I am doing is reading in the file and then setting up the data so that I can take linear model(s) with a repose of Value and input Observer. After that I set up a matrix (3692 by 100) that contains the indices of the 100 bootstrapped samples. To construct this matrix I make sure that each observer has 284 values in each sample. Finally, after this I will compute the 100 beta values for each of the samples and time how long all of this takes.

```r
HW6_data <- readRDS("./HW4_data.rds")
HW6_dataC1 <- cbind(HW6_data$Observer, HW6_data$dev1)
HW6_dataC2 <- cbind(HW6_data$Observer, HW6_data$dev2)
HW_7 <- rbind(HW6_dataC1, HW6_dataC2)
df <- data.frame(Observer = HW_7[,1], Value = HW_7[,2])


set.seed(1657654)

sampleindexs <- matrix(data = NA, nrow = length(df[,1]), ncol = 100)

timeBoot <- system.time({
  for(k in 1:100){
    samples <- sample(1:284, 284, replace = T)
    for(i in 1:12){
      sam <- sample(1:284, 284, replace = T)
      samples <- c(samples, sam + i*284)
    }
    sampleindexs[ , k] = samples
  }

  coefficientsB0B1 <- function(x, y){
    mod <- lm(y~x)
    return(c(mod$coefficients[1], mod$coefficients[2]))
  }

  betas <- matrix(data = NA, nrow = 100, ncol = 2)

  foreach(j = 1:100) %do% {
    dfnew <- df[sampleindexs[,j],]
    betas[j,] = coefficientsB0B1(dfnew$Observer, dfnew$Value)

  }
```

```
})
```

The total time turns out to be 0.31, 0.02, 0.33, NA, NA seconds.

Part c

Now run essentially the same code but parallelize this process of computing the 100 beta values.

```
set.seed(1657654)

sampleindexs <- matrix(data = NA, nrow = length(df[,1]), ncol = 100)

timeBootPar <- system.time({
for(k in 1:100){
  samples <- sample(1:284, 284, replace = T)
  for(i in 1:12){
    sam <- sample(1:284, 284, replace = T)
    samples <- c(samples, sam + i*284)
  }
  sampleindexs[ , k] = samples
}

coefficientsB0B1 <- function(x, y){
  mod <- lm(y~x)
  return(c(mod$coefficients[1], mod$coefficients[2]))
}

betas <- matrix(data = NA, nrow = 100, ncol = 2)

cores <- 8

cl <- makeCluster(cores)

foreach(j = 1:100) %dopar% {
  dfnew <- df[sampleindexs[,j],]
  betas[j,] = coefficientsB0B1(dfnew$Observer, dfnew$Value)

}

stopCluster(cl)

})
```

```
## Warning: executing %dopar% sequentially: no parallel backend registered
```

Here is the table summarizing the time for both methods.

```
dfBoot <- as.data.frame(rbind(timeBoot[1:3], timeBootPar[1:3]))
kable(dfBoot)
```

user.self	sys.self	elapsed
0.31	0.02	0.33
0.32	0.03	1.92

Problem 3

Below is my code for Newton's method. The problem asks us how many roots there are to the function given in the problem, and there are infinity many roots. As $x \to -\infty$ we have that $3^x \approx 0$, which means we are left with the sin and cos terms which are periodic between values of -1 and 1. The problem also asks for us to set up a grid of possible

```r
Newton <- function(InitialValue){
  y <- fOfX(InitialValue)
  xNew <- InitialValue
  i <- 1
  error = 1e-10
  while (abs(y) > error) {
    xOld <- xNew
    xNew <- xOld - fOfX(xOld)/fPrimeOfX(xOld)
    i <- i + 1
    y <- fOfX(xNew)
    if(i > 200){
      return(NA)
    }
  }
  return (xNew)
}

fOfX <- function(x){
  return (3^x - sin(x) + cos(5*x))
}

fPrimeOfX <- function(x){
  return (3^x*log(3) - 5*sin(5*x) - cos(x))
}

x <- seq(from = 0, to = -500, length.out = 1000)

timeNewton <- system.time({
zeros <- sapply(x, Newton)
})
```

The total time is 0.03 seconds. Here is my table for the zeros.

```r
dfNewton <- data.frame("Input" = x, "Found Zero" = zeros)
kable(dfNewton, "latex", longtable = T,
      booktabs = T, caption = "Zeros")
```

Table 1: Zeros

Input	Found.Zero
0.0000000	-20.682152
-0.5005005	-2.887058
-1.0010010	-8.115868
-1.5015015	-2.887058
-2.0020020	-7.068484
-2.5025025	-5.107437
-3.0030030	-2.887058
-3.5035035	-3.528723

3

-4.0040040	-3.930114
-4.5045045	-5.107437
-5.0050050	-4.971508
-5.5055055	-4.971508
-6.0060060	-6.021155
-6.5065065	-6.676061
-7.0070070	-7.068484
-7.5075075	-6.021155
-8.0080080	-8.115868
-8.5085085	-8.246605
-9.0090090	-9.162986
-9.5095095	-10.210179
-10.0100100	-8.246605
-10.5105105	-10.210179
-11.0110110	-11.257371
-11.5115115	-11.388276
-12.0120120	-11.388276
-12.5125125	-12.304571
-13.0130130	-12.959070
-13.5135135	-13.351769
-14.0140140	-14.398966
-14.5145145	-14.529866
-15.0150150	-12.959070
-15.5155155	-15.446164
-16.0160160	-16.100662
-16.5165165	-16.493361
-17.0170170	-14.529866
-17.5175175	-17.540559
-18.0180180	-17.671459
-18.5185185	-18.587757
-19.0190190	-19.242255
-19.5195195	-19.634954
-20.0200200	-19.242255
-20.5205205	-20.682152
-21.0210210	-20.813051
-21.5215215	-21.729349
-22.0220220	-24.870942
-22.5225225	-22.383848
-23.0230230	-22.776547
-23.5235235	-23.823744
-24.0240240	-23.954644
-24.5245245	-24.870942
-25.0250250	-24.870942
-25.5255255	-25.525440
-26.0260260	-25.918139
-26.5265265	-27.096237
-27.0270270	-29.059732
-27.5275275	-26.965337
-28.0280280	-28.012535
-28.5285285	-28.667033

-29.0290290	-29.059732
-29.5295295	-23.954644
-30.0300300	-30.106930
-30.5305305	-30.237829
-31.0310310	-31.154127
-31.5315315	-32.201325
-32.0320320	-33.248522
-32.5325325	-32.201325
-33.0330330	-33.248522
-33.5335335	-33.379422
-34.0340340	-34.295720
-34.5345345	-32.201325
-35.0350350	-34.950218
-35.5355355	-35.342917
-36.0360360	-36.390115
-36.5365365	-36.521015
-37.0370370	-6.021155
-37.5375375	-37.437312
-38.0380380	-38.091811
-38.5385385	-38.484510
-39.0390390	-39.531708
-39.5395395	-39.531708
-40.0400400	-41.233404
-40.5405405	-40.578905
-41.0410410	-41.233404
-41.5415415	-41.626103
-42.0420420	-41.626103
-42.5425425	-42.673300
-43.0430430	-42.804200
-43.5435435	-43.720498
-44.0440440	-45.945793
-44.5445445	-39.662607
-45.0450450	-44.767695
-45.5455455	-45.814893
-46.0460460	-45.945793
-46.5465465	-47.516589
-47.0470470	-46.862090
-47.5475475	-47.516589
-48.0480480	-47.909288
-48.5485485	-48.956485
-49.0490490	-49.087385
-49.5495495	-53.799774
-50.0500501	-50.003683
-50.5505506	-50.658181
-51.0510511	-51.050881
-51.5515516	-53.799774
-52.0520521	-52.098078
-52.5525526	-52.228978
-53.0530531	-53.145276
-53.5535536	-53.799774

-54.0540541	-54.192473
-54.5545546	-55.239671
-55.0550551	-55.239671
-55.5555556	-55.370570
-56.0560561	-56.286868
-56.5565566	-52.098078
-57.0570571	-56.941367
-57.5575576	-57.334066
-58.0580581	-58.381264
-58.5585586	-58.512163
-59.0590591	-61.522856
-59.5595596	-59.428461
-60.0600601	-60.082960
-60.5605606	-60.475659
-61.0610611	-61.653756
-61.5615616	-61.522856
-62.0620621	-61.522856
-62.5625626	-62.570054
-63.0630631	-63.224552
-63.5635636	-63.617251
-64.0640641	-61.653756
-64.5645646	-64.664449
-65.0650651	-64.795349
-65.5655656	-65.711646
-66.0660661	-66.758844
-66.5665666	-57.334066
-67.0670671	-66.758844
-67.5675676	-67.806041
-68.0680681	-67.936941
-68.5685686	-68.853239
-69.0690691	-68.853239
-69.5695696	-69.507738
-70.0700701	-69.900436
-70.5705706	-70.947634
-71.0710711	-71.078534
-71.5715716	-68.853239
-72.0720721	-71.994832
-72.5725726	-72.649330
-73.0730731	-73.042029
-73.5735736	-75.136424
-74.0740741	-74.089227
-74.5745746	-74.220126
-75.0750751	-75.136424
-75.5755756	-75.790923
-76.0760761	-76.183622
-76.5765766	-75.790923
-77.0770771	-77.230819
-77.5775776	-77.361719
-78.0780781	-78.278017
-78.5785786	-50.658181

-79.0790791	-78.932515
-79.5795796	-79.325215
-80.0800801	-80.372412
-80.5805806	-80.503312
-81.0810811	-82.074108
-81.5815816	-81.419610
-82.0820821	-82.074108
-82.5825826	-82.466807
-83.0830831	-83.644904
-83.5835836	-83.514005
-84.0840841	-83.514005
-84.5845846	-84.561202
-85.0850851	-85.215701
-85.5855856	-85.608400
-86.0860861	-75.790923
-86.5865866	-86.655597
-87.0870871	-86.786497
-87.5875876	-87.702795
-88.0880881	-89.928090
-88.5885886	-87.702795
-89.0890891	-88.749993
-89.5895896	-89.797190
-90.0900901	-89.928090
-90.5905906	-90.844388
-91.0910911	-89.797190
-91.5915916	-91.498886
-92.0920921	-91.891585
-92.5925926	-92.938783
-93.0930931	-93.069682
-93.5935936	-104.457956
-94.0940941	-93.985980
-94.5945946	-94.640479
-95.0950951	-95.033178
-95.5955956	-96.211275
-96.0960961	-96.080375
-96.5965966	-96.080375
-97.0970971	-97.127573
-97.5975976	-97.782071
-98.0980981	-98.174770
-98.5985986	-97.127573
-99.0990991	-99.221968
-99.5995996	-99.352868
-100.1001001	-100.269165
-100.6006006	-102.363561
-101.1011011	-100.269165
-101.6016016	-101.316363
-102.1021021	-102.363561
-102.6026026	-102.494460
-103.1031031	-104.457956
-103.6036036	-103.410758

-104.1041041	-104.065257
-104.6046046	-104.457956
-105.1051051	-105.505153
-105.6056056	-105.636053
-106.1061061	-104.457956
-106.6066066	-106.552351
-107.1071071	-107.206849
-107.6076076	-107.599548
-108.1081081	-110.741141
-108.6086086	-108.646746
-109.1091091	-108.777646
-109.6096096	-109.693944
-110.1101101	-110.348442
-110.6106106	-110.741141
-111.1111111	-110.348442
-111.6116116	-111.788339
-112.1121121	-111.919238
-112.6126126	-112.835536
-113.1131131	-111.788339
-113.6136136	-113.490035
-114.1141141	-113.882734
-114.6146146	-114.929931
-115.1151151	-115.060831
-115.6156156	-117.024326
-116.1161161	-115.977129
-116.6166166	-116.631627
-117.1171171	-117.024326
-117.6176176	-118.202424
-118.1181181	-118.071524
-118.6186186	-118.071524
-119.1191191	-119.118721
-119.6196196	-119.773220
-120.1201201	-120.165919
-120.6206206	-118.071524
-121.1211211	-121.213117
-121.6216216	-121.344016
-122.1221221	-122.260314
-122.6226226	-123.307512
-123.1231231	-126.056405
-123.6236236	-123.307512
-124.1241241	-124.354709
-124.6246246	-124.485609
-125.1251251	-125.401907
-125.6256256	-125.401907
-126.1261261	-126.056405
-126.6266266	-126.449104
-127.1271271	-127.496302
-127.6276276	-127.627202
-128.1281281	-124.354709
-128.6286286	-128.543499

-129.1291291	-129.197998
-129.6296296	-129.590697
-130.1301301	-131.685092
-130.6306306	-130.637894
-131.1311311	-130.768794
-131.6316316	-131.685092
-132.1321321	-132.339591
-132.6326326	-132.732290
-133.1331331	-132.339591
-133.6336336	-133.779487
-134.1341341	-133.910387
-134.6346346	-134.826685
-135.1351351	-141.764368
-135.6356356	-135.481183
-136.1361361	-135.873882
-136.6366366	-136.921080
-137.1371371	-137.051979
-137.6376376	-138.622776
-138.1381381	-137.968277
-138.6386386	-138.622776
-139.1391391	-139.015475
-139.6396396	-140.193572
-140.1401401	-140.193572
-140.6406406	-140.062672
-141.1411411	-141.109870
-141.6416416	-141.764368
-142.1421421	-142.157068
-142.6426426	-173.572994
-143.1431431	-143.204265
-143.6436436	-143.335165
-144.1441441	-144.251463
-144.6446446	-144.251463
-145.1451451	-145.298660
-145.6456456	-146.476757
-146.1461461	-146.345858
-146.6466466	-146.476757
-147.1471471	-147.393055
-147.6476476	-146.476757
-148.1481481	-148.047554
-148.6486486	-148.440253
-149.1491491	-149.487450
-149.6496496	-149.618350
-150.1501502	-154.723438
-150.6506507	-150.534648
-151.1511512	-151.189146
-151.6516517	-151.581845
-152.1521522	-152.759943
-152.6526527	-152.629043
-153.1531532	-152.629043
-153.6536537	-153.676241

-154.1541542	-154.330739
-154.6546547	-154.723438
-155.1551552	-153.676241
-155.6556557	-155.770636
-156.1561562	-155.901535
-156.6566567	-156.817833
-157.1571572	-157.865031
-157.6576577	-156.817833
-158.1581582	-157.865031
-158.6586587	-158.912228
-159.1591592	-159.043128
-159.6596597	-154.330739
-160.1601602	-159.959426
-160.6606607	-160.613924
-161.1611612	-161.006623
-161.6616617	-162.053821
-162.1621622	-162.184721
-162.6626627	-161.006623
-163.1631632	-163.101019
-163.6636637	-163.755517
-164.1641642	-164.148216
-164.6646647	-166.897110
-165.1651652	-165.195414
-165.6656657	-165.326313
-166.1661662	-166.242611
-166.6666667	-166.897110
-167.1671672	-167.289809
-167.6676677	-166.897110
-168.1681682	-168.337006
-168.6686687	-168.467906
-169.1691692	-169.384204
-169.6696697	-167.289809
-170.1701702	-170.038702
-170.6706707	-170.431401
-171.1711712	-171.478599
-171.6716717	-171.609499
-172.1721722	-173.572994
-172.6726727	-172.525797
-173.1731732	-173.180295
-173.6736737	-173.572994
-174.1741742	-174.751091
-174.6746747	-174.620192
-175.1751752	-174.620192
-175.6756757	-175.667389
-176.1761762	-176.321888
-176.6766767	-176.714587
-177.1771772	-173.572994
-177.6776777	-177.761784
-178.1781782	-177.892684
-178.6786787	-178.808982

-179.1791792	-179.856179
-179.6796797	-180.903377
-180.1801802	-179.856179
-180.6806807	-180.903377
-181.1811812	-181.034277
-181.6816817	-181.950574
-182.1821822	-182.605073
-182.6826827	-182.605073
-183.1831832	-182.997772
-183.6836837	-184.044970
-184.1841842	-184.175869
-184.6846847	-177.761784
-185.1851852	-185.092167
-185.6856857	-185.746666
-186.1861862	-186.139365
-186.6866867	-190.459055
-187.1871872	-187.186562
-187.6876877	-187.317462
-188.1881882	-188.233760
-188.6886887	-188.888258
-189.1891892	-189.280957
-189.6896897	-188.888258
-190.1901902	-190.328155
-190.6906907	-190.459055
-191.1911912	-191.375352
-191.6916917	-194.516945
-192.1921922	-190.459055
-192.6926927	-192.422550
-193.1931932	-193.469748
-193.6936937	-193.600647
-194.1941942	-195.171444
-194.6946947	-194.516945
-195.1951952	-195.171444
-195.6956957	-195.564143
-196.1961962	-196.742240
-196.6966967	-196.742240
-197.1971972	-196.742240
-197.6976977	-197.658538
-198.1981982	-198.313036
-198.6986987	-198.705735
-199.1991992	-206.167018
-199.6996997	-199.752933
-200.2002002	-199.883833
-200.7007007	-200.800130
-201.2012012	-201.454629
-201.7017017	-201.847328
-202.2022022	-198.705735
-202.7027027	-202.894525
-203.2032032	-203.025425
-203.7037037	-203.941723

-204.2042042	-203.025425
-204.7047047	-204.596222
-205.2052052	-204.988921
-205.7057057	-206.036118
-206.2062062	-206.167018
-206.7067067	-209.308610
-207.2072072	-207.083316
-207.7077077	-207.737814
-208.2082082	-208.130513
-208.7087087	-209.308610
-209.2092092	-209.177711
-209.7097097	-209.177711
-210.2102102	-210.224908
-210.7107107	-210.879407
-211.2112112	-211.272106
-211.7117117	-210.224908
-212.2122122	-212.319303
-212.7127127	-212.450203
-213.2132132	-213.366501
-213.7137137	-214.413699
-214.2142142	-212.319303
-214.7147147	-214.413699
-215.2152152	-215.460896
-215.7157157	-215.591796
-216.2162162	-215.591796
-216.7167167	-216.508094
-217.2172172	-217.162592
-217.7177177	-217.555291
-218.2182182	-218.602489
-218.7187187	-218.733388
-219.2192192	-217.162592
-219.7197197	-219.649686
-220.2202202	-220.304185
-220.7207207	-220.696884
-221.2212212	-221.874981
-221.7217217	-221.744081
-222.2222222	-221.874981
-222.7227227	-222.791279
-223.2232232	-223.445777
-223.7237237	-223.838477
-224.2242242	-223.445777
-224.7247247	-224.885674
-225.2252252	-225.016574
-225.7257257	-225.932872
-226.2262262	-221.744081
-226.7267267	-226.587370
-227.2272272	-226.980069
-227.7277277	-228.027267
-228.2282282	-228.158166
-228.7287287	-235.357650

-229.2292292	-229.074464
-229.7297297	-229.728963
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-266.7667668	-266.773576
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-284.7847848	-284.706834
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-285.7857858	-285.623132
-286.2862863	-286.277631
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-287.7877878	-287.848427
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-288.7887888	-288.764725
-289.2892893	-289.419223
-289.7897898	-289.811922
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-292.2922923	-294.000713
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-293.7937938	-294.000713
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-297.2972973	-297.273205
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-305.8058058	-305.519886
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-435.4354354	-434.325184
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-455.4554555	-455.269135
-455.9559560	-455.923634
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-457.4574575	-457.494430
-457.9579580	-451.080345
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-458.9589590	-459.065226
-459.4594595	-459.457926
-459.9599600	-463.777616
-460.4604605	-460.505123
-460.9609610	-460.636023
-461.4614615	-461.552321
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-475.4754755	-475.165889
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-476.4764765	-476.343986
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-477.4774775	-477.260284
-477.9779780	-477.914782
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-478.9789790	-479.354679

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-481.9819820	-483.543469
-482.4824825	-482.496272
-482.9829830	-482.627171
-483.4834835	-483.543469
-483.9839840	-484.197968
-484.4844845	-484.590667
-484.9849850	-484.197968
-485.4854855	-485.637864
-485.9859860	-485.768764
-486.4864865	-486.685062
-486.9869870	-118.071524
-487.4874875	-487.339560
-487.9879880	-487.732259
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-488.9889890	-488.910357
-489.4894895	-490.481153
-489.9899900	-489.826655
-490.4904905	-490.481153
-490.9909910	-490.873852
-491.4914915	-492.051949
-491.9919920	-492.051949
-492.4924925	-491.921050
-492.9929930	-492.968247
-493.4934935	-493.622746
-493.9939940	-494.015445
-494.4944945	-476.213086
-494.9949950	-495.062642
-495.4954955	-495.193542
-495.9959960	-496.109840
-496.4964965	-498.204235
-496.9969970	-496.764338
-497.4974975	-497.157037
-497.9979980	-498.204235
-498.4984985	-498.335135
-498.9989990	-499.251433
-499.4994995	-498.204235
-500.0000000	-499.905931

Below is my code for the same problem but this time I parallelize the problem.

```
cores <- 8
cl <- makeCluster(cores)

timeNewtonPar <- system.time({
  zeros <- sapply(x, Newton)
```

```
})

stopCluster(cl)
```

This instance the total time is 0.02, 0, 0.02, NA, NA seconds. The table of zeros is given below.

```
dfNewtonPar <- data.frame("Input" = x, "Found Zero" = zeros)
kable(dfNewtonPar, "latex", longtable = T,
      booktabs = T, caption = "Zeros")
```

Table 2: Zeros

Input	Found.Zero
0.0000000	-20.682152
-0.5005005	-2.887058
-1.0010010	-8.115868
-1.5015015	-2.887058
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-282.2822823	-282.481539
-282.7827828	-229.074464
-283.2832833	-283.136038
-283.7837838	-283.528737
-284.2842843	-284.575935
-284.7847848	-284.706834
-285.2852853	-286.277631
-285.7857858	-285.623132
-286.2862863	-286.277631
-286.7867868	-286.670330
-287.2872873	-287.848427
-287.7877878	-287.848427
-288.2882883	-287.717527
-288.7887888	-288.764725
-289.2892893	-289.419223
-289.7897898	-289.811922
-290.2902903	-270.962366
-290.7907908	-290.859120
-291.2912913	-290.990020
-291.7917918	-291.906317
-292.2922923	-294.000713
-292.7927928	-292.953515
-293.2932933	-292.953515
-293.7937938	-294.000713

-294.2942943	-294.131612
-294.7947948	-295.047910
-295.2952953	-294.000713
-295.7957958	-295.702408
-296.2962963	-296.095108
-296.7967968	-297.142305
-297.2972973	-297.273205
-297.7977978	-307.614281
-298.2982983	-298.189503
-298.7987988	-298.844001
-299.2992993	-299.236700
-299.7997998	-300.414798
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-301.3013013	-301.331095
-301.8018018	-301.985594
-302.3023023	-302.378293
-302.8028028	-301.331095
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-303.8038038	-303.556390
-304.3043043	-304.472688
-304.8048048	-306.567083
-305.3053053	-304.472688
-305.8058058	-305.519886
-306.3063063	-306.567083
-306.8068068	-306.697983
-307.3073073	-308.268779
-307.8078078	-307.614281
-308.3083083	-308.268779
-308.8088088	-308.661478
-309.3093093	-309.708676
-309.8098098	-309.839576
-310.3103103	-308.661478
-310.8108108	-310.755873
-311.3113113	-311.410372
-311.8118118	-311.803071
-312.3123123	-314.944663
-312.8128128	-312.850268
-313.3133133	-312.981168
-313.8138138	-313.897466
-314.3143143	-314.551964
-314.8148148	-314.944663
-315.3153153	-314.551964
-315.8158158	-315.991861
-316.3163163	-316.122761
-316.8168168	-317.039059
-317.3173173	-315.991861
-317.8178178	-317.693557
-318.3183183	-318.086256
-318.8188188	-319.133454

-319.3193193	-319.264353
-319.8198198	-321.227849
-320.3203203	-320.180651
-320.8208208	-320.835150
-321.3213213	-321.227849
-321.8218218	-322.405946
-322.3223223	-322.275046
-322.8228228	-322.275046
-323.3233233	-323.322244
-323.8238238	-323.976742
-324.3243243	-324.369441
-324.8248248	-322.275046
-325.3253253	-325.416639
-325.8258258	-325.547539
-326.3263263	-326.463837
-326.8268268	-327.511034
-327.3273273	-330.652627
-327.8278278	-327.511034
-328.3283283	-328.558232
-328.8288288	-328.689131
-329.3293293	-329.605429
-329.8298298	-329.605429
-330.3303303	-330.259928
-330.8308308	-330.652627
-331.3313313	-331.699824
-331.8318318	-331.830724
-332.3323323	-328.558232
-332.8328328	-332.747022
-333.3333333	-333.401520
-333.8338338	-333.794219
-334.3343343	-335.888615
-334.8348348	-334.841417
-335.3353353	-334.972317
-335.8358358	-335.888615
-336.3363363	-336.543113
-336.8368368	-336.935812
-337.3373373	-336.543113
-337.8378378	-337.983010
-338.3383383	-338.113909
-338.8388388	-339.030207
-339.3393393	-345.313393
-339.8398398	-339.684706
-340.3403403	-340.077405
-340.8408408	-341.124602
-341.3413413	-341.255502
-341.8418418	-342.826298
-342.3423423	-342.171800
-342.8428428	-342.826298
-343.3433433	-343.218997
-343.8438438	-344.397095

-344.3443443	-344.397095
-344.8448448	-344.266195
-345.3453453	-345.313393
-345.8458458	-345.967891
-346.3463463	-346.360590
-346.8468468	-371.100632
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-347.8478478	-347.538687
-348.3483483	-348.454985
-348.8488488	-348.454985
-349.3493493	-349.502183
-349.8498498	-350.549380
-350.3503504	-350.549380
-350.8508509	-350.680280
-351.3513514	-351.596578
-351.8518519	-350.680280
-352.3523524	-352.251076
-352.8528529	-352.643775
-353.3533534	-353.690973
-353.8538539	-353.821873
-354.3543544	-357.879763
-354.8548549	-354.738171
-355.3553554	-355.392669
-355.8558559	-355.785368
-356.3563564	-356.963465
-356.8568569	-356.832566
-357.3573574	-356.832566
-357.8578579	-357.879763
-358.3583584	-358.534262
-358.8588589	-358.926961
-359.3593594	-357.879763
-359.8598599	-359.974158
-360.3603604	-360.105058
-360.8608609	-361.021356
-361.3613614	-361.675854
-361.8618619	-361.021356
-362.3623624	-362.068553
-362.8628629	-363.115751
-363.3633634	-363.246651
-363.8638639	-359.974158
-364.3643644	-364.162948
-364.8648649	-364.817447
-365.3653654	-365.210146
-365.8658659	-366.257343
-366.3663664	-366.388243
-366.8668669	-365.210146
-367.3673674	-367.304541
-367.8678679	-367.959040
-368.3683684	-368.351739
-368.8688689	-371.100632

-369.3693694	-369.398936
-369.8698699	-369.529836
-370.3703704	-370.446134
-370.8708709	-371.100632
-371.3713714	-371.493331
-371.8718719	-371.100632
-372.3723724	-372.540529
-372.8728729	-372.671428
-373.3733734	-373.587726
-373.8738739	-370.446134
-374.3743744	-374.242225
-374.8748749	-374.634924
-375.3753754	-375.682121
-375.8758759	-375.813021
-376.3763764	-377.776517
-376.8768769	-376.729319
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-377.8778779	-377.776517
-378.3783784	-378.954614
-378.8788789	-378.823714
-379.3793794	-378.823714
-379.8798799	-379.870912
-380.3803804	-380.525410
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-382.3823824	-382.096206
-382.8828829	-383.012504
-383.3833834	-384.059702
-383.8838839	-385.106899
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-384.8848849	-385.106899
-385.3853854	-385.237799
-385.8858859	-386.154097
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-386.8868869	-386.808596
-387.3873874	-387.201295
-387.8878879	-388.248492
-388.3883884	-388.379392
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-389.3893894	-389.295690
-389.8898899	-389.950188
-390.3903904	-390.342887
-390.8908909	-397.673270
-391.3913914	-391.390085
-391.8918919	-391.520984
-392.3923924	-392.437282
-392.8928929	-393.091781
-393.3933934	-393.484480
-393.8938939	-393.091781

-394.3943944	-394.531677
-394.8948949	-394.662577
-395.3953954	-395.578875
-395.8958959	-398.720468
-396.3963964	-396.626073
-396.8968969	-396.626073
-397.3973974	-397.673270
-397.8978979	-397.804170
-398.3983984	-399.374966
-398.8988989	-398.720468
-399.3993994	-399.374966
-399.8998999	-399.767665
-400.4004004	-400.945762
-400.9009009	-400.945762
-401.4014014	-400.945762
-401.9019019	-401.862060
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-402.9029029	-402.909258
-403.4034034	-410.239641
-403.9039039	-403.956455
-404.4044044	-404.087355
-404.9049049	-405.003653
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-405.9059059	-406.050851
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-406.9069069	-407.098048
-407.4074074	-407.228948
-407.9079079	-408.145246
-408.4084084	-407.228948
-408.9089089	-408.799744
-409.4094094	-409.192443
-409.9099099	-410.239641
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-413.4134134	-413.381233
-413.9139139	-413.381233
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-415.4154154	-415.475628
-415.9159159	-414.428431
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-416.9169169	-416.653726
-417.4174174	-417.570023
-417.9179179	-418.617221
-418.4184184	-416.522826
-418.9189189	-418.617221

-419.4194194	-419.664419
-419.9199199	-419.795318
-420.4204204	-419.664419
-420.9209209	-420.711616
-421.4214214	-421.366115
-421.9219219	-421.758814
-422.4224224	-422.806011
-422.9229229	-422.936911
-423.4234234	-421.366115
-423.9239239	-423.853209
-424.4244244	-424.507707
-424.9249249	-424.900406
-425.4254254	-427.649300
-425.9259259	-425.947604
-426.4264264	-426.078504
-426.9269269	-426.994801
-427.4274274	-427.649300
-427.9279279	-428.041999
-428.4284284	-427.649300
-428.9289289	-429.089197
-429.4294294	-429.220096
-429.9299299	-430.136394
-430.4304304	-424.507707
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-431.4314314	-431.183592
-431.9319319	-432.230789
-432.4324324	-432.361689
-432.9329329	-433.932485
-433.4334334	-433.277987
-433.9339339	-433.932485
-434.4344344	-434.325184
-434.9349349	-435.503282
-435.4354354	-434.325184
-435.9359359	-435.372382
-436.4364364	-436.419579
-436.9369369	-437.074078
-437.4374374	-437.466777
-437.9379379	-377.776517
-438.4384384	-438.513975
-438.9389389	-438.644874
-439.4394394	-439.561172
-439.9399399	-440.608370
-440.4404404	-441.786467
-440.9409409	-440.608370
-441.4414414	-441.655567
-441.9419419	-441.786467
-442.4424424	-442.702765
-442.9429429	-452.127543
-443.4434434	-443.357263
-443.9439439	-443.749962

-444.4444444	-444.797160
-444.9449449	-444.928060
-445.4454454	-349.502183
-445.9459459	-445.844357
-446.4464464	-446.498856
-446.9469469	-446.891555
-447.4474474	-447.938753
-447.9479479	-447.938753
-448.4484484	-446.891555
-448.9489489	-448.985950
-449.4494494	-449.640448
-449.9499499	-450.033148
-450.4504505	-450.033148
-450.9509510	-451.080345
-451.4514515	-451.211245
-451.9519520	-452.127543
-452.4524525	-454.352838
-452.9529530	-451.211245
-453.4534535	-453.174740
-453.9539540	-454.221938
-454.4544545	-454.352838
-454.9549550	-455.269135
-455.4554555	-455.269135
-455.9559560	-455.923634
-456.4564565	-456.316333
-456.9569570	-457.363531
-457.4574575	-457.494430
-457.9579580	-451.080345
-458.4584585	-458.410728
-458.9589590	-459.065226
-459.4594595	-459.457926
-459.9599600	-463.777616
-460.4604605	-460.505123
-460.9609610	-460.636023
-461.4614615	-461.552321
-461.9619620	-462.206819
-462.4624625	-462.599518
-462.9629630	-460.636023
-463.4634635	-463.646716
-463.9639640	-463.777616
-464.4644645	-464.693913
-464.9649650	-463.646716
-465.4654655	-465.348412
-465.9659660	-465.741111
-466.4664665	-466.788308
-466.9669670	-466.919208
-467.4674675	-469.929901
-467.9679680	-467.835506
-468.4684685	-468.490004
-468.9689690	-468.882703

-469.4694695	-470.060801
-469.9699700	-469.929901
-470.4704705	-469.929901
-470.9709710	-470.977099
-471.4714715	-471.631597
-471.9719720	-472.024296
-472.4724725	-470.060801
-472.9729730	-473.071494
-473.4734735	-473.202393
-473.9739740	-474.118691
-474.4744745	-475.165889
-474.9749750	-443.357263
-475.4754755	-475.165889
-475.9759760	-476.213086
-476.4764765	-476.343986
-476.9769770	-477.260284
-477.4774775	-477.260284
-477.9779780	-477.914782
-478.4784785	-478.307481
-478.9789790	-479.354679
-479.4794795	-479.485579
-479.9799800	-477.260284
-480.4804805	-480.401877
-480.9809810	-481.056375
-481.4814815	-481.449074
-481.9819820	-483.543469
-482.4824825	-482.496272
-482.9829830	-482.627171
-483.4834835	-483.543469
-483.9839840	-484.197968
-484.4844845	-484.590667
-484.9849850	-484.197968
-485.4854855	-485.637864
-485.9859860	-485.768764
-486.4864865	-486.685062
-486.9869870	-118.071524
-487.4874875	-487.339560
-487.9879880	-487.732259
-488.4884885	-488.779457
-488.9889890	-488.910357
-489.4894895	-490.481153
-489.9899900	-489.826655
-490.4904905	-490.481153
-490.9909910	-490.873852
-491.4914915	-492.051949
-491.9919920	-492.051949
-492.4924925	-491.921050
-492.9929930	-492.968247
-493.4934935	-493.622746
-493.9939940	-494.015445

-494.4944945	-476.213086
-494.9949950	-495.062642
-495.4954955	-495.193542
-495.9959960	-496.109840
-496.4964965	-498.204235
-496.9969970	-496.764338
-497.4974975	-497.157037
-497.9979980	-498.204235
-498.4984985	-498.335135
-498.9989990	-499.251433
-499.4994995	-498.204235
-500.0000000	-499.905931

Both methods are essentially taking the same amount of time

Problem 4

The below code is my for setting up a 100 by 100 grid of possible starting values (10,000 in total). To parallelize the code I created a function called GradientDecent that will take in the initial theta values and execute the algorithm for the given step size and tolerance.

```r
GradientDecent <- function(betas){
  #Set up the simulated data
  set.seed(1256)
  theta <- as.matrix(c(1,2),nrow=2)
  X <- cbind(1,rep(1:10,10))
  h <- X%*%theta+rnorm(100,0,0.2)



  alpha <- 0.0000001 # this is the step size
  m <- 100 # this is the size of h
  tolerance <- 0.000000001 # stopping tolerance
  theta0 <- c(betas[1],rep(0,999)) # I want to try a guess at 1, setting up container for max 1000 iter
  theta1 <- c(betas[2],rep(0,999))
  i <- 2 #iterator, list index 1 is my inital guess
  #current theta is last guess
  current_theta <- as.matrix(c(theta0[i-1],theta1[i-1]),nrow=2)
  #update guess using gradient
  rs_X <- rowSums(X) # can precalc to save some time
  #set up the first iteration
  theta0[i] <-theta0[i-1] - (alpha/m) * sum(X %*% current_theta - h)
  theta1[i] <-theta1[i-1] - (alpha/m) * sum((X %*% current_theta - h)*rs_X)
  z <- 0

  #loop untill the change in the thetas is less than the tolerance or we are run 5e6 loops
  while(abs(theta0[i]-theta0[i-1])>tolerance && abs(theta1[i]-theta1[i-1])>tolerance && z<5000000){
    if(i==1000){theta0[1]=theta0[i]; theta1[1]=theta1[i]; i=1; } ##cat("z=",z,"\n",sep="")}
    z <- z + 1
    i <- i + 1
    current_theta <- as.matrix(c(theta0[i-1],theta1[i-1]),nrow=2)
    theta0[i] <-theta0[i-1] - (alpha/m) * sum(X %*% current_theta - h)
    theta1[i] <-theta1[i-1] - (alpha/m) * sum((X %*% current_theta - h)*rs_X)
    # if(i %% 1000 == 0){
```

```
  #    print(abs(theta1[i]-theta1[i-1]))
  # }
  }
  theta0 <- theta0[i]
  theta1 <- theta1[i]
  #return the last theta values and the number of iteration completed.
  return(c(theta0, theta1, z))
}


#set up the grid of theta0 and theta1
theta0Values <- seq(0, 2, length.out = 100)
theta1Values <- seq(1, 3, length.out = 100)

thetaPairs <- matrix(NA, nrow = 10000, ncol = 2)

#combine the two grids to get a martix of test values
for(i in 1:100){
  for(j in 1:100){
    rownum <- (i-1)*100 + j
    thetaPairs[rownum, 1] <- theta0Values[i]
    thetaPairs[rownum, 2] <- theta1Values[j]
  }
}

#create cluster
cores <- 10
cl <- makeCluster(cores)

#timing
time <- system.time({
  Thetas <- parApply(cl, thetaPairs, MARGIN = 1, GradientDecent)
})

stopCluster(cl)
```

The above code need about 3.8 hours to complete. Thus, I am not running it again when I knit, but I did save the output to an .RData file that I will load now.

```
load("./workspaceHW7.RData")
time
```

```
##      user    system    elapsed
##    40.021    29.426 13816.707
```

Part a

While we could include the true values in the stopping condition for this instance, in general we won't know the true values. In fact, if we did know the true values we wouldn't need the above algorithm, as the whole point is to estimate the true values.

Part b

First I will compute the proportion of pairs that ran for 5,000,000 iterations of the while loop.

45

```
df <- as.data.frame(cbind(thetaPairs, t(Thetas)))
colnames(df) <- c("Initial Theta0", "Initial Theta1", "Final Theta0"
                  , "Final Theta1", "Number of Iterations")
prop <- sum(df[,5] == 5000000)
```

Thus the proportion is 0.0068.

Below is my table for the 10,000 input pairs, their output values and the number of iterations needed.

```
kable(df, "latex", longtable = T, booktabs = T, caption = "Theta Values")
```

Table 3: Theta Values

Initial Theta0	Initial Theta1	Final Theta0	Final Theta1	Number of Iterations
0.0000000	1.000000	0.1657398	2.120083	1643045
0.0000000	1.020202	0.1632584	2.120450	1638602
0.0000000	1.040404	0.1607754	2.120817	1634087
0.0000000	1.060606	0.1582910	2.121184	1629499
0.0000000	1.080808	0.1558050	2.121551	1624833
0.0000000	1.101010	0.1533174	2.121919	1620088
0.0000000	1.121212	0.1508281	2.122286	1615261
0.0000000	1.141414	0.1483370	2.122654	1610347
0.0000000	1.161616	0.1458442	2.123023	1605343
0.0000000	1.181818	0.1433495	2.123391	1600246
0.0000000	1.202020	0.1408528	2.123760	1595051
0.0000000	1.222222	0.1383541	2.124129	1589755
0.0000000	1.242424	0.1358533	2.124499	1584352
0.0000000	1.262626	0.1333503	2.124868	1578839
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0.0606061	1.242424	0.1937714	2.115943	1593159
0.0606061	1.262626	0.1912736	2.116312	1587571
0.0606061	1.282828	0.1887736	2.116681	1581865
0.0606061	1.303030	0.1862713	2.117050	1576034
0.0606061	1.323232	0.1837666	2.117421	1570072
0.0606061	1.343434	0.1812593	2.117791	1563974
0.0606061	1.363636	0.1787494	2.118162	1557731
0.0606061	1.383838	0.1762367	2.118533	1551336
0.0606061	1.404040	0.1737211	2.118904	1544781
0.0606061	1.424242	0.1712024	2.119276	1538056
0.0606061	1.444444	0.1686804	2.119649	1531152
0.0606061	1.464646	0.1661550	2.120022	1524058
0.0606061	1.484849	0.1636259	2.120396	1516763
0.0606061	1.505051	0.1610930	2.120770	1509253
0.0606061	1.525252	0.1585561	2.121145	1501516
0.0606061	1.545454	0.1560147	2.121520	1493534
0.0606061	1.565657	0.1534687	2.121896	1485291
0.0606061	1.585859	0.1509178	2.122273	1476769
0.0606061	1.606061	0.1483615	2.122651	1467947
0.0606061	1.626263	0.1457995	2.123029	1458800
0.0606061	1.646465	0.1432313	2.123409	1449303
0.0606061	1.666667	0.1406565	2.123789	1439426
0.0606061	1.686869	0.1380744	2.124170	1429136
0.0606061	1.707071	0.1354844	2.124553	1418394
0.0606061	1.727273	0.1328859	2.124937	1407157
0.0606061	1.747475	0.1302778	2.125322	1395374

0.0606061	1.767677	0.1276593	2.125709	1382988
0.0606061	1.787879	0.1250292	2.126098	1369930
0.0606061	1.808081	0.1223862	2.126488	1356120
0.0606061	1.828283	0.1197286	2.126881	1341461
0.0606061	1.848485	0.1170545	2.127276	1325840
0.0606061	1.868687	0.1143616	2.127674	1309115
0.0606061	1.888889	0.1116469	2.128074	1291112
0.0606061	1.909091	0.1089068	2.128479	1271615
0.0606061	1.929293	0.1061367	2.128888	1250344
0.0606061	1.949495	0.1033305	2.129303	1226935
0.0606061	1.969697	0.1004799	2.129724	1200897
0.0606061	1.989899	0.0975737	2.130154	1171549
0.0606061	2.010101	0.0945954	2.130593	1137905
0.0606061	2.030303	0.0915201	2.131048	1098463
0.0606061	2.050505	0.0883067	2.131522	1050758
0.0606061	2.070707	0.0848810	2.132029	990321
0.0606061	2.090909	0.0810853	2.132589	907657
0.0606061	2.111111	0.0764725	2.133271	775849
0.0606061	2.131313	0.0680784	2.134511	416737
0.0606061	2.151515	0.1388370	2.124801	5000000
0.0606061	2.171717	0.0605689	2.168654	20285
0.0606061	2.191919	0.0597802	2.168798	121053
0.0606061	2.212121	0.0584639	2.169037	190000
0.0606061	2.232323	0.0568744	2.169326	242406
0.0606061	2.252525	0.0551177	2.169645	284649
0.0606061	2.272727	0.0532482	2.169985	320009
0.0606061	2.292929	0.0512974	2.170340	350396
0.0606061	2.313131	0.0492854	2.170706	377022
0.0606061	2.333333	0.0472255	2.171080	400702
0.0606061	2.353535	0.0451273	2.171461	422015
0.0606061	2.373737	0.0429976	2.171849	441381
0.0606061	2.393939	0.0408418	2.172241	459119
0.0606061	2.414141	0.0386638	2.172637	475476
0.0606061	2.434343	0.0364668	2.173036	490647
0.0606061	2.454546	0.0342534	2.173439	504786
0.0606061	2.474747	0.0320256	2.173844	518022
0.0606061	2.494950	0.0297850	2.174251	530459
0.0606061	2.515151	0.0275333	2.174660	542185
0.0606061	2.535353	0.0252715	2.175072	553274
0.0606061	2.555556	0.0230006	2.175485	563790
0.0606061	2.575758	0.0207216	2.175899	573786
0.0606061	2.595960	0.0184351	2.176315	583309
0.0606061	2.616162	0.0161420	2.176732	592400
0.0606061	2.636364	0.0138426	2.177150	601095
0.0606061	2.656566	0.0115376	2.177569	609425
0.0606061	2.676768	0.0092273	2.177989	617419
0.0606061	2.696970	0.0069122	2.178410	625100
0.0606061	2.717172	0.0045926	2.178831	632492
0.0606061	2.737374	0.0022689	2.179254	639613
0.0606061	2.757576	-0.0000587	2.179677	646483

0.0606061	2.777778	-0.0023899	2.180101	653117
0.0606061	2.797980	-0.0047245	2.180526	659530
0.0606061	2.818182	-0.0070623	2.180951	665735
0.0606061	2.838384	-0.0094030	2.181376	671745
0.0606061	2.858586	-0.0117466	2.181802	677570
0.0606061	2.878788	-0.0140927	2.182229	683222
0.0606061	2.898990	-0.0164414	2.182656	688708
0.0606061	2.919192	-0.0187924	2.183083	694039
0.0606061	2.939394	-0.0211457	2.183511	699221
0.0606061	2.959596	-0.0235011	2.183940	704263
0.0606061	2.979798	-0.0258585	2.184368	709171
0.0606061	3.000000	-0.0282177	2.184797	713952
0.0808081	1.000000	0.2428852	2.108687	1655917
0.0808081	1.020202	0.2404096	2.109053	1651400
0.0808081	1.040404	0.2379327	2.109419	1646809
0.0808081	1.060606	0.2354543	2.109785	1642143
0.0808081	1.080808	0.2329744	2.110151	1637399
0.0808081	1.101010	0.2304929	2.110518	1632573
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0.0808081	1.161616	0.2230389	2.111619	1617574
0.0808081	1.181818	0.2205508	2.111986	1612388
0.0808081	1.202020	0.2180608	2.112354	1607103
0.0808081	1.222222	0.2155688	2.112722	1601712
0.0808081	1.242424	0.2130749	2.113091	1596213
0.0808081	1.262626	0.2105789	2.113459	1590600
0.0808081	1.282828	0.2080807	2.113829	1584868
0.0808081	1.303030	0.2055802	2.114198	1579010
0.0808081	1.323232	0.2030773	2.114568	1573021
0.0808081	1.343434	0.2005720	2.114938	1566893
0.0808081	1.363636	0.1980640	2.115308	1560620
0.0808081	1.383838	0.1955532	2.115679	1554194
0.0808081	1.404040	0.1930396	2.116051	1547607
0.0808081	1.424242	0.1905229	2.116422	1540848
0.0808081	1.444444	0.1880030	2.116795	1533909
0.0808081	1.464646	0.1854797	2.117167	1526778
0.0808081	1.484849	0.1829528	2.117541	1519444
0.0808081	1.505051	0.1804222	2.117914	1511894
0.0808081	1.525252	0.1778874	2.118289	1504113
0.0808081	1.545454	0.1753484	2.118664	1496086
0.0808081	1.565657	0.1728047	2.119040	1487796
0.0808081	1.585859	0.1702562	2.119416	1479223
0.0808081	1.606061	0.1677023	2.119794	1470347
0.0808081	1.626263	0.1651428	2.120172	1461142
0.0808081	1.646465	0.1625772	2.120551	1451583
0.0808081	1.666667	0.1600050	2.120931	1441640
0.0808081	1.686869	0.1574256	2.121312	1431278
0.0808081	1.707071	0.1548384	2.121694	1420458
0.0808081	1.727273	0.1522427	2.122077	1409136
0.0808081	1.747475	0.1496375	2.122462	1397261

0.0808081	1.767677	0.1470220	2.122849	1384772
0.0808081	1.787879	0.1443949	2.123237	1371601
0.0808081	1.808081	0.1417549	2.123627	1357664
0.0808081	1.828283	0.1391005	2.124019	1342864
0.0808081	1.848485	0.1364295	2.124413	1327081
0.0808081	1.868687	0.1337398	2.124811	1310171
0.0808081	1.888889	0.1310283	2.125211	1291955
0.0808081	1.909091	0.1282914	2.125616	1272208
0.0808081	1.929293	0.1255242	2.126024	1250638
0.0808081	1.949495	0.1227207	2.126439	1226867
0.0808081	1.969697	0.1198724	2.126859	1200380
0.0808081	1.989899	0.1169677	2.127289	1170459
0.0808081	2.010101	0.1139895	2.127728	1136061
0.0808081	2.030303	0.1109116	2.128183	1095575
0.0808081	2.050505	0.1076907	2.128659	1046329
0.0808081	2.070707	0.1042464	2.129168	983385
0.0808081	2.090909	0.1004030	2.129735	895915
0.0808081	2.111111	0.0956279	2.130441	751130
0.0808081	2.131313	0.0845871	2.132072	221557
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0.0808081	2.171717	0.0806874	2.164996	43171
0.0808081	2.191919	0.0797563	2.165166	137457
0.0808081	2.212121	0.0783646	2.165418	203310
0.0808081	2.232323	0.0767267	2.165716	253900
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0.0808081	2.272727	0.0730394	2.166387	329458
0.0808081	2.292929	0.0710675	2.166745	359211
0.0808081	2.313131	0.0690380	2.167114	385343
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0.0808081	2.353535	0.0648523	2.167875	429616
0.0808081	2.373737	0.0627115	2.168264	448711
0.0808081	2.393939	0.0605457	2.168658	466219
0.0808081	2.414141	0.0583587	2.169056	482377
0.0808081	2.434343	0.0561536	2.169457	497373
0.0808081	2.454546	0.0539328	2.169861	511360
0.0808081	2.474747	0.0516982	2.170267	524460
0.0808081	2.494950	0.0494514	2.170675	536775
0.0808081	2.515151	0.0471938	2.171086	548391
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0.0808081	2.555556	0.0426506	2.171912	569804
0.0808081	2.575758	0.0403668	2.172327	579716
0.0808081	2.595960	0.0380758	2.172744	589161
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0.0808081	2.636364	0.0334750	2.173580	606808
0.0808081	2.656566	0.0311661	2.174000	615076
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0.0808081	2.717172	0.0242107	2.175265	637977
0.0808081	2.737374	0.0218838	2.175688	645049
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0.0808081	2.797980	0.0148816	2.176961	664833
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0.0808081	2.838384	0.0101978	2.177812	676969
0.0808081	2.858586	0.0078517	2.178239	682757
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0.0808081	2.979798	-0.0062737	2.180807	714165
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0.1010101	1.181818	0.2398478	2.109136	1615579
0.1010101	1.202020	0.2373595	2.109503	1610270
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0.1010101	1.262626	0.2298829	2.110608	1593693
0.1010101	1.282828	0.2273865	2.110977	1587933
0.1010101	1.303030	0.2248878	2.111346	1582048
0.1010101	1.323232	0.2223869	2.111715	1576031
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0.1010101	1.363636	0.2173773	2.112455	1563570
0.1010101	1.383838	0.2148686	2.112826	1557113
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0.1010101	1.626263	0.1844853	2.117314	1463537
0.1010101	1.646465	0.1819223	2.117693	1453916
0.1010101	1.666667	0.1793527	2.118072	1443905
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0.1010101	1.767677	0.1663840	2.119988	1386601
0.1010101	1.787879	0.1637600	2.120376	1373314
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0.1010101	1.828283	0.1584719	2.121157	1344303
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0.1010101	1.868687	0.1531177	2.121948	1311257
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0.1010101	1.909091	0.1476757	2.122752	1272818
0.1010101	1.929293	0.1449116	2.123160	1250941
0.1010101	1.949495	0.1421109	2.123574	1226796
0.1010101	1.969697	0.1392650	2.123995	1199845
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0.1010101	2.010101	0.1333836	2.124863	1134141
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0.1010101	2.191919	0.0997125	2.161537	153370
0.1010101	2.212121	0.0982519	2.161803	216391
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0.1212121	1.141414	0.2641113	2.105551	1629205
0.1212121	1.161616	0.2616282	2.105918	1624069
0.1212121	1.181818	0.2591434	2.106285	1618837
0.1212121	1.202020	0.2566568	2.106653	1613503
0.1212121	1.222222	0.2541684	2.107020	1608064
0.1212121	1.242424	0.2516780	2.107388	1602515
0.1212121	1.262626	0.2491855	2.107756	1596850
0.1212121	1.282828	0.2466910	2.108125	1591064
0.1212121	1.303030	0.2441942	2.108494	1585151
0.1212121	1.323232	0.2416951	2.108863	1579104
0.1212121	1.343434	0.2391935	2.109232	1572917
0.1212121	1.363636	0.2366895	2.109602	1566583
0.1212121	1.383838	0.2341827	2.109973	1560094
0.1212121	1.404040	0.2316731	2.110343	1553440
0.1212121	1.424242	0.2291605	2.110714	1546612
0.1212121	1.444444	0.2266449	2.111086	1539601
0.1212121	1.464646	0.2241259	2.111458	1532395
0.1212121	1.484849	0.2216034	2.111831	1524982
0.1212121	1.505051	0.2190771	2.112204	1517349
0.1212121	1.525252	0.2165470	2.112578	1509481
0.1212121	1.545454	0.2140126	2.112952	1501361
0.1212121	1.565657	0.2114737	2.113327	1492974
0.1212121	1.585859	0.2089300	2.113703	1484297
0.1212121	1.606061	0.2063812	2.114080	1475310
0.1212121	1.626263	0.2038268	2.114457	1465988
0.1212121	1.646465	0.2012665	2.114835	1456302
0.1212121	1.666667	0.1986996	2.115214	1446223
0.1212121	1.686869	0.1961257	2.115595	1435714
0.1212121	1.707071	0.1935441	2.115976	1424735
0.1212121	1.727273	0.1909541	2.116359	1413239
0.1212121	1.747475	0.1883549	2.116743	1401173

0.1212121	1.767677	0.1857454	2.117128	1388475
0.1212121	1.787879	0.1831245	2.117515	1375071
0.1212121	1.808081	0.1804909	2.117904	1360874
0.1212121	1.828283	0.1778428	2.118296	1345780
0.1212121	1.848485	0.1751784	2.118689	1329665
0.1212121	1.868687	0.1724953	2.119086	1312374
0.1212121	1.888889	0.1697903	2.119485	1293715
0.1212121	1.909091	0.1670599	2.119889	1273446
0.1212121	1.929293	0.1642990	2.120296	1251254
0.1212121	1.949495	0.1615012	2.120710	1226724
0.1212121	1.969697	0.1586577	2.121130	1199291
0.1212121	1.989899	0.1557561	2.121558	1168157
0.1212121	2.010101	0.1527780	2.121998	1132141
0.1212121	2.030303	0.1496947	2.122454	1089390
0.1212121	2.050505	0.1464571	2.122932	1036741
0.1212121	2.070707	0.1429706	2.123447	968094
0.1212121	2.090909	0.1390124	2.124032	869078
0.1212121	2.111111	0.1337847	2.124804	688245
0.1212121	2.131313	0.1953738	2.116414	5000000
0.1212121	2.151515	0.1931032	2.116750	5000000
0.1212121	2.171717	0.1208174	2.157700	85309
0.1212121	2.191919	0.1196504	2.157912	168852
0.1212121	2.212121	0.1181266	2.158189	229272
0.1212121	2.232323	0.1164012	2.158503	276575
0.1212121	2.252525	0.1145463	2.158840	315416
0.1212121	2.272727	0.1126010	2.159194	348340
0.1212121	2.292929	0.1105894	2.159559	376894
0.1212121	2.313131	0.1085268	2.159934	402087
0.1212121	2.333333	0.1064239	2.160317	424616
0.1212121	2.353535	0.1042884	2.160705	444980
0.1212121	2.373737	0.1021261	2.161098	463550
0.1212121	2.393939	0.0999411	2.161495	480611
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0.1212121	2.434343	0.0955161	2.162300	511040
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0.1212121	2.474747	0.0910330	2.163115	537559
0.1212121	2.494950	0.0887740	2.163526	549635
0.1212121	2.515151	0.0865051	2.163938	561034
0.1212121	2.535353	0.0842272	2.164353	571825
0.1212121	2.555556	0.0819413	2.164768	582068
0.1212121	2.575758	0.0796482	2.165185	591813
0.1212121	2.595960	0.0773484	2.165603	601105
0.1212121	2.616162	0.0750427	2.166022	609981
0.1212121	2.636364	0.0727313	2.166443	618476
0.1212121	2.656566	0.0704150	2.166864	626619
0.1212121	2.676768	0.0680939	2.167286	634437
0.1212121	2.696970	0.0657685	2.167709	641953
0.1212121	2.717172	0.0634391	2.168132	649189
0.1212121	2.737374	0.0611059	2.168556	656163
0.1212121	2.757576	0.0587693	2.168981	662892

0.1212121	2.777778	0.0564294	2.169407	669393
0.1212121	2.797980	0.0540864	2.169833	675679
0.1212121	2.818182	0.0517406	2.170259	681763
0.1212121	2.838384	0.0493921	2.170686	687657
0.1212121	2.858586	0.0470411	2.171114	693371
0.1212121	2.878788	0.0446877	2.171542	698916
0.1212121	2.898990	0.0423321	2.171970	704300
0.1212121	2.919192	0.0399743	2.172399	709531
0.1212121	2.939394	0.0376145	2.172827	714619
0.1212121	2.959596	0.0352528	2.173257	719569
0.1212121	2.979798	0.0328892	2.173687	724388
0.1212121	3.000000	0.0305240	2.174117	729083
0.1414141	1.000000	0.3007289	2.100142	1666275
0.1414141	1.020202	0.2982579	2.100507	1661697
0.1414141	1.040404	0.2957855	2.100872	1657046
0.1414141	1.060606	0.2933118	2.101238	1652318
0.1414141	1.080808	0.2908366	2.101603	1647511
0.1414141	1.101010	0.2883600	2.101969	1642621
0.1414141	1.121212	0.2858818	2.102335	1637645
0.1414141	1.141414	0.2834021	2.102702	1632579
0.1414141	1.161616	0.2809207	2.103068	1627420
0.1414141	1.181818	0.2784376	2.103435	1622164
0.1414141	1.202020	0.2759528	2.103802	1616806
0.1414141	1.222222	0.2734661	2.104169	1611341
0.1414141	1.242424	0.2709774	2.104537	1605766
0.1414141	1.262626	0.2684868	2.104905	1600074
0.1414141	1.282828	0.2659941	2.105273	1594261
0.1414141	1.303030	0.2634992	2.105642	1588320
0.1414141	1.323232	0.2610020	2.106011	1582244
0.1414141	1.343434	0.2585024	2.106380	1576027
0.1414141	1.363636	0.2560003	2.106750	1569661
0.1414141	1.383838	0.2534955	2.107120	1563139
0.1414141	1.404040	0.2509880	2.107490	1556451
0.1414141	1.424242	0.2484776	2.107861	1549589
0.1414141	1.444444	0.2459640	2.108232	1542541
0.1414141	1.464646	0.2434472	2.108604	1535296
0.1414141	1.484849	0.2409269	2.108976	1527843
0.1414141	1.505051	0.2384030	2.109349	1520167
0.1414141	1.525252	0.2358751	2.109723	1512254
0.1414141	1.545454	0.2333431	2.110097	1504088
0.1414141	1.565657	0.2308067	2.110471	1495650
0.1414141	1.585859	0.2282655	2.110847	1486921
0.1414141	1.606061	0.2257192	2.111223	1477877
0.1414141	1.626263	0.2231674	2.111600	1468495
0.1414141	1.646465	0.2206097	2.111978	1458745
0.1414141	1.666667	0.2180456	2.112357	1448596
0.1414141	1.686869	0.2154745	2.112736	1438012
0.1414141	1.707071	0.2128958	2.113117	1426951
0.1414141	1.727273	0.2103087	2.113500	1415366
0.1414141	1.747475	0.2077125	2.113883	1403203

0.1414141	1.767677	0.2051061	2.114268	1390397
0.1414141	1.787879	0.2024884	2.114655	1376873
0.1414141	1.808081	0.1998580	2.115043	1362542
0.1414141	1.828283	0.1972133	2.115434	1347298
0.1414141	1.848485	0.1945522	2.115827	1331011
0.1414141	1.868687	0.1918725	2.116223	1313522
0.1414141	1.888889	0.1891710	2.116622	1294634
0.1414141	1.909091	0.1864439	2.117025	1274094
0.1414141	1.929293	0.1836862	2.117432	1251576
0.1414141	1.949495	0.1808914	2.117845	1226648
0.1414141	1.969697	0.1780504	2.118265	1198717
0.1414141	1.989899	0.1751505	2.118693	1166938
0.1414141	2.010101	0.1721725	2.119133	1130055
0.1414141	2.030303	0.1690863	2.119589	1086074
0.1414141	2.050505	0.1658394	2.120069	1031539
0.1414141	2.070707	0.1623287	2.120587	959630
0.1414141	2.090909	0.1583006	2.121183	853590
0.1414141	2.111111	0.1527413	2.122004	646471
0.1414141	2.131313	0.2134625	2.113730	5000000
0.1414141	2.151515	0.1414141	2.151515	0
0.1414141	2.171717	0.1408369	2.154060	104917
0.1414141	2.191919	0.1395712	2.154290	183957
0.1414141	2.212121	0.1379893	2.154578	241978
0.1414141	2.232323	0.1362243	2.154899	287788
0.1414141	2.252525	0.1343399	2.155241	325608
0.1414141	2.272727	0.1323717	2.155599	357789
0.1414141	2.292929	0.1303413	2.155968	385777
0.1414141	2.313131	0.1282630	2.156346	410523
0.1414141	2.333333	0.1261467	2.156731	432689
0.1414141	2.353535	0.1239996	2.157121	452753
0.1414141	2.373737	0.1218268	2.157516	471070
0.1414141	2.393939	0.1196326	2.157915	487913
0.1414141	2.414141	0.1174201	2.158317	503495
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0.1414141	2.454546	0.1129495	2.159130	531528
0.1414141	2.474747	0.1106953	2.159540	544230
0.1414141	2.494950	0.1084303	2.159952	556187
0.1414141	2.515151	0.1061559	2.160366	567479
0.1414141	2.535353	0.1038728	2.160781	578173
0.1414141	2.555556	0.1015821	2.161197	588326
0.1414141	2.575758	0.0992844	2.161615	597989
0.1414141	2.595960	0.0969803	2.162034	607204
0.1414141	2.616162	0.0946705	2.162454	616009
0.1414141	2.636364	0.0923553	2.162875	624438
0.1414141	2.656566	0.0900352	2.163296	632519
0.1414141	2.676768	0.0877107	2.163719	640278
0.1414141	2.696970	0.0853819	2.164143	647739
0.1414141	2.717172	0.0830493	2.164567	654923
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0.1414141	2.777778	0.0760308	2.165843	674986
0.1414141	2.797980	0.0736851	2.166269	681229
0.1414141	2.818182	0.0713367	2.166696	687273
0.1414141	2.838384	0.0689857	2.167124	693127
0.1414141	2.858586	0.0666322	2.167552	698804
0.1414141	2.878788	0.0642764	2.167980	704313
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0.1414141	2.919192	0.0595585	2.168838	714860
0.1414141	2.939394	0.0571966	2.169267	719915
0.1414141	2.959596	0.0548328	2.169697	724834
0.1414141	2.979798	0.0524672	2.170127	729623
0.1414141	3.000000	0.0501000	2.170558	734289
0.1616162	1.000000	0.3200071	2.097294	1669874
0.1616162	1.020202	0.3175375	2.097659	1665276
0.1616162	1.040404	0.3150667	2.098024	1660604
0.1616162	1.060606	0.3125946	2.098389	1655855
0.1616162	1.080808	0.3101210	2.098755	1651026
0.1616162	1.101010	0.3076460	2.099120	1646113
0.1616162	1.121212	0.3051695	2.099486	1641115
0.1616162	1.141414	0.3026914	2.099852	1636026
0.1616162	1.161616	0.3002117	2.100218	1630843
0.1616162	1.181818	0.2977303	2.100585	1625562
0.1616162	1.202020	0.2952472	2.100952	1620179
0.1616162	1.222222	0.2927623	2.101319	1614689
0.1616162	1.242424	0.2902755	2.101686	1609088
0.1616162	1.262626	0.2877867	2.102054	1603369
0.1616162	1.282828	0.2852958	2.102422	1597528
0.1616162	1.303030	0.2828028	2.102790	1591558
0.1616162	1.323232	0.2803075	2.103159	1585452
0.1616162	1.343434	0.2778099	2.103528	1579205
0.1616162	1.363636	0.2753098	2.103897	1572807
0.1616162	1.383838	0.2728071	2.104267	1566252
0.1616162	1.404040	0.2703016	2.104637	1559530
0.1616162	1.424242	0.2677933	2.105007	1552631
0.1616162	1.444444	0.2652819	2.105378	1545546
0.1616162	1.464646	0.2627673	2.105750	1538262
0.1616162	1.484849	0.2602492	2.106122	1530768
0.1616162	1.505051	0.2577276	2.106494	1523049
0.1616162	1.525252	0.2552021	2.106867	1515091
0.1616162	1.545454	0.2526725	2.107241	1506877
0.1616162	1.565657	0.2501385	2.107616	1498389
0.1616162	1.585859	0.2475998	2.107991	1489606
0.1616162	1.606061	0.2450561	2.108366	1480505
0.1616162	1.626263	0.2425070	2.108743	1471061
0.1616162	1.646465	0.2399520	2.109120	1461246
0.1616162	1.666667	0.2373906	2.109499	1451026
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0.1616162	1.707071	0.2322466	2.110259	1429222
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0.1616162	1.808081	0.2192246	2.112182	1364255
0.1616162	1.828283	0.2165832	2.112573	1348857
0.1616162	1.848485	0.2139256	2.112965	1332395
0.1616162	1.868687	0.2112494	2.113361	1314704
0.1616162	1.888889	0.2085513	2.113759	1295580
0.1616162	1.909091	0.2058277	2.114161	1274762
0.1616162	1.929293	0.2030734	2.114568	1251910
0.1616162	1.949495	0.2002817	2.114981	1226571
0.1616162	1.969697	0.1974433	2.115400	1198122
0.1616162	1.989899	0.1945451	2.115828	1165671
0.1616162	2.010101	0.1915672	2.116268	1127878
0.1616162	2.030303	0.1884778	2.116725	1082593
0.1616162	2.050505	0.1852210	2.117206	1026030
0.1616162	2.070707	0.1816836	2.117728	950530
0.1616162	2.090909	0.1775745	2.118335	836367
0.1616162	2.111111	0.1715575	2.119224	593113
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0.1616162	2.151515	0.1616037	2.150284	9333
0.1616162	2.171717	0.1608303	2.150425	123736
0.1616162	2.191919	0.1594761	2.150671	198730
0.1616162	2.212121	0.1578404	2.150968	254532
0.1616162	2.232323	0.1560382	2.151296	298938
0.1616162	2.252525	0.1541260	2.151644	335787
0.1616162	2.272727	0.1521358	2.152006	367256
0.1616162	2.292929	0.1500874	2.152378	394696
0.1616162	2.313131	0.1479940	2.152759	419009
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0.1616162	2.353535	0.1437061	2.153538	460593
0.1616162	2.373737	0.1415233	2.153935	478662
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0.1616162	2.474747	0.1303541	2.155966	550987
0.1616162	2.494950	0.1280833	2.156379	562827
0.1616162	2.515151	0.1258034	2.156793	574013
0.1616162	2.535353	0.1235153	2.157209	584610
0.1616162	2.555556	0.1212198	2.157627	594674
0.1616162	2.575758	0.1189175	2.158045	604255
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0.1616162	2.616162	0.1142954	2.158886	622128
0.1616162	2.636364	0.1119764	2.159307	630490
0.1616162	2.656566	0.1096527	2.159730	638509
0.1616162	2.676768	0.1073247	2.160153	646210
0.1616162	2.696970	0.1049926	2.160577	653616
0.1616162	2.717172	0.1026568	2.161002	660747
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0.1616162	2.777778	0.0956296	2.162279	680669
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0.1616162	2.818182	0.0909302	2.163134	692872
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0.1616162	2.878788	0.0838627	2.164419	709799
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0.1616162	2.919192	0.0791404	2.165277	720278
0.1616162	2.939394	0.0767763	2.165707	725300
0.1616162	2.959596	0.0744105	2.166137	730188
0.1616162	2.979798	0.0720429	2.166568	734946
0.1616162	3.000000	0.0696738	2.166999	739582
0.1818182	1.000000	0.3392835	2.094446	1673552
0.1818182	1.020202	0.3368156	2.094811	1668933
0.1818182	1.040404	0.3343463	2.095176	1664240
0.1818182	1.060606	0.3318757	2.095541	1659468
0.1818182	1.080808	0.3294038	2.095906	1654617
0.1818182	1.101010	0.3269304	2.096271	1649682
0.1818182	1.121212	0.3244555	2.096637	1644660
0.1818182	1.141414	0.3219792	2.097003	1639548
0.1818182	1.161616	0.3195012	2.097369	1634341
0.1818182	1.181818	0.3170215	2.097735	1629035
0.1818182	1.202020	0.3145402	2.098102	1623627
0.1818182	1.222222	0.3120571	2.098469	1618111
0.1818182	1.242424	0.3095721	2.098836	1612483
0.1818182	1.262626	0.3070851	2.099203	1606736
0.1818182	1.282828	0.3045961	2.099571	1600867
0.1818182	1.303030	0.3021050	2.099939	1594867
0.1818182	1.323232	0.2996117	2.100307	1588732
0.1818182	1.343434	0.2971160	2.100676	1582453
0.1818182	1.363636	0.2946180	2.101045	1576023
0.1818182	1.383838	0.2921173	2.101414	1569434
0.1818182	1.404040	0.2896139	2.101784	1562677
0.1818182	1.424242	0.2871077	2.102154	1555742
0.1818182	1.444444	0.2845985	2.102525	1548619
0.1818182	1.464646	0.2820861	2.102896	1541296
0.1818182	1.484849	0.2795704	2.103268	1533760
0.1818182	1.505051	0.2770510	2.103640	1525998
0.1818182	1.525252	0.2745279	2.104013	1517994
0.1818182	1.545454	0.2720007	2.104386	1509731
0.1818182	1.565657	0.2694692	2.104760	1501191
0.1818182	1.585859	0.2669331	2.105135	1492354
0.1818182	1.606061	0.2643920	2.105510	1483195
0.1818182	1.626263	0.2618455	2.105886	1473689
0.1818182	1.646465	0.2592933	2.106263	1463807
0.1818182	1.666667	0.2567347	2.106641	1453515
0.1818182	1.686869	0.2541694	2.107020	1442777
0.1818182	1.707071	0.2515966	2.107400	1431549
0.1818182	1.727273	0.2490156	2.107781	1419782
0.1818182	1.747475	0.2464255	2.108164	1407418

0.1818182	1.767677	0.2438255	2.108548	1394391
0.1818182	1.787879	0.2412143	2.108934	1380621
0.1818182	1.808081	0.2385906	2.109322	1366015
0.1818182	1.828283	0.2359527	2.109711	1350460
0.1818182	1.848485	0.2332986	2.110103	1333818
0.1818182	1.868687	0.2306259	2.110498	1315921
0.1818182	1.888889	0.2279314	2.110896	1296555
0.1818182	1.909091	0.2252113	2.111298	1275451
0.1818182	1.929293	0.2224605	2.111704	1252254
0.1818182	1.949495	0.2196720	2.112116	1226490
0.1818182	1.969697	0.2168363	2.112535	1197504
0.1818182	1.989899	0.2139399	2.112963	1164352
0.1818182	2.010101	0.2109621	2.113403	1125604
0.1818182	2.030303	0.2078694	2.113860	1078935
0.1818182	2.050505	0.2046018	2.114342	1020186
0.1818182	2.070707	0.2010349	2.114869	940712
0.1818182	2.090909	0.1968308	2.115490	817039
0.1818182	2.111111	0.1901290	2.116481	520068
0.1818182	2.131313	0.2496400	2.108363	5000000
0.1818182	2.151515	0.1817354	2.146624	35787
0.1818182	2.171717	0.1808001	2.146794	141874
0.1818182	2.191919	0.1793660	2.147055	213213
0.1818182	2.212121	0.1776805	2.147361	266957
0.1818182	2.232323	0.1758433	2.147695	310039
0.1818182	2.252525	0.1739046	2.148048	345963
0.1818182	2.272727	0.1718934	2.148413	376747
0.1818182	2.292929	0.1698277	2.148789	403660
0.1818182	2.313131	0.1677196	2.149172	427553
0.1818182	2.333333	0.1655777	2.149562	449023
0.1818182	2.353535	0.1634081	2.149956	468507
0.1818182	2.373737	0.1612155	2.150355	486333
0.1818182	2.393939	0.1590034	2.150757	502753
0.1818182	2.414141	0.1567747	2.151162	517968
0.1818182	2.434343	0.1545317	2.151570	532137
0.1818182	2.454546	0.1522760	2.151980	545390
0.1818182	2.474747	0.1500093	2.152392	557834
0.1818182	2.494950	0.1477328	2.152806	569559
0.1818182	2.515151	0.1454476	2.153221	580640
0.1818182	2.535353	0.1431545	2.153639	591140
0.1818182	2.555556	0.1408543	2.154057	601116
0.1818182	2.575758	0.1385476	2.154476	610615
0.1818182	2.595960	0.1362352	2.154897	619678
0.1818182	2.616162	0.1339173	2.155318	628342
0.1818182	2.636364	0.1315946	2.155740	636638
0.1818182	2.656566	0.1292673	2.156163	644595
0.1818182	2.676768	0.1269359	2.156587	652237
0.1818182	2.696970	0.1246005	2.157012	659588
0.1818182	2.717172	0.1222616	2.157437	666667
0.1818182	2.737374	0.1199194	2.157863	673492
0.1818182	2.757576	0.1175740	2.158289	680081

0.1818182	2.777778	0.1152258	2.158716	686447
0.1818182	2.797980	0.1128747	2.159144	692604
0.1818182	2.818182	0.1105212	2.159572	698565
0.1818182	2.838384	0.1081652	2.160000	704341
0.1818182	2.858586	0.1058069	2.160429	709942
0.1818182	2.878788	0.1034465	2.160858	715378
0.1818182	2.898990	0.1010841	2.161288	720657
0.1818182	2.919192	0.0987198	2.161718	725787
0.1818182	2.939394	0.0963537	2.162148	730777
0.1818182	2.959596	0.0939858	2.162578	735632
0.1818182	2.979798	0.0916163	2.163009	740360
0.1818182	3.000000	0.0892452	2.163440	744966
0.2020202	1.000000	0.3585583	2.091599	1677312
0.2020202	1.020202	0.3560919	2.091963	1672671
0.2020202	1.040404	0.3536242	2.092328	1667956
0.2020202	1.060606	0.3511553	2.092693	1663162
0.2020202	1.080808	0.3486849	2.093058	1658288
0.2020202	1.101010	0.3462132	2.093423	1653330
0.2020202	1.121212	0.3437400	2.093788	1648285
0.2020202	1.141414	0.3412653	2.094154	1643148
0.2020202	1.161616	0.3387891	2.094519	1637916
0.2020202	1.181818	0.3363112	2.094886	1632586
0.2020202	1.202020	0.3338316	2.095252	1627152
0.2020202	1.222222	0.3313503	2.095618	1621609
0.2020202	1.242424	0.3288671	2.095985	1615953
0.2020202	1.262626	0.3263820	2.096352	1610179
0.2020202	1.282828	0.3238950	2.096720	1604281
0.2020202	1.303030	0.3214058	2.097087	1598252
0.2020202	1.323232	0.3189144	2.097455	1592085
0.2020202	1.343434	0.3164208	2.097824	1585775
0.2020202	1.363636	0.3139247	2.098193	1579312
0.2020202	1.383838	0.3114261	2.098562	1572689
0.2020202	1.404040	0.3089249	2.098931	1565897
0.2020202	1.424242	0.3064208	2.099301	1558925
0.2020202	1.444444	0.3039138	2.099671	1551763
0.2020202	1.464646	0.3014037	2.100042	1544399
0.2020202	1.484849	0.2988902	2.100414	1536821
0.2020202	1.505051	0.2963732	2.100785	1529015
0.2020202	1.525252	0.2938525	2.101158	1520964
0.2020202	1.545454	0.2913278	2.101531	1512652
0.2020202	1.565657	0.2887988	2.101904	1504060
0.2020202	1.585859	0.2862652	2.102279	1495167
0.2020202	1.606061	0.2837268	2.102654	1485949
0.2020202	1.626263	0.2811830	2.103029	1476380
0.2020202	1.646465	0.2786335	2.103406	1466431
0.2020202	1.666667	0.2760779	2.103784	1456067
0.2020202	1.686869	0.2735154	2.104162	1445250
0.2020202	1.707071	0.2709456	2.104542	1433936
0.2020202	1.727273	0.2683677	2.104923	1422075
0.2020202	1.747475	0.2657809	2.105305	1409609

0.2020202	1.767677	0.2631841	2.105688	1396468
0.2020202	1.787879	0.2605762	2.106074	1382571
0.2020202	1.808081	0.2579559	2.106461	1367823
0.2020202	1.828283	0.2553216	2.106850	1352108
0.2020202	1.848485	0.2526711	2.107241	1335283
0.2020202	1.868687	0.2500020	2.107636	1317174
0.2020202	1.888889	0.2473112	2.108033	1297561
0.2020202	1.909091	0.2445948	2.108434	1276162
0.2020202	1.929293	0.2418475	2.108840	1252610
0.2020202	1.949495	0.2390623	2.109252	1226407
0.2020202	1.969697	0.2362294	2.109670	1196863
0.2020202	1.989899	0.2333349	2.110098	1162979
0.2020202	2.010101	0.2303572	2.110538	1123224
0.2020202	2.030303	0.2272609	2.110995	1075084
0.2020202	2.050505	0.2239818	2.111480	1013973
0.2020202	2.070707	0.2203820	2.112011	930075
0.2020202	2.090909	0.2160648	2.112649	795108
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0.2020202	2.131313	0.2677287	2.105680	5000000
0.2020202	2.151515	0.2018234	2.142971	60520
0.2020202	2.171717	0.2007483	2.143167	159425
0.2020202	2.191919	0.1992418	2.143441	227446
0.2020202	2.212121	0.1975100	2.143756	279273
0.2020202	2.232323	0.1956398	2.144096	321105
0.2020202	2.252525	0.1936760	2.144453	356147
0.2020202	2.272727	0.1916446	2.144822	386273
0.2020202	2.292929	0.1895622	2.145201	412676
0.2020202	2.313131	0.1874400	2.145587	436161
0.2020202	2.333333	0.1852858	2.145978	457297
0.2020202	2.353535	0.1831055	2.146375	476500
0.2020202	2.373737	0.1809033	2.146775	494088
0.2020202	2.393939	0.1786827	2.147179	510303
0.2020202	2.414141	0.1764462	2.147585	525339
0.2020202	2.434343	0.1741960	2.147995	539349
0.2020202	2.454546	0.1719338	2.148406	552461
0.2020202	2.474747	0.1696611	2.148819	564778
0.2020202	2.494950	0.1673789	2.149234	576388
0.2020202	2.515151	0.1650884	2.149651	587364
0.2020202	2.535353	0.1627904	2.150068	597770
0.2020202	2.555556	0.1604856	2.150487	607658
0.2020202	2.575758	0.1581746	2.150908	617075
0.2020202	2.595960	0.1558580	2.151329	626062
0.2020202	2.616162	0.1535363	2.151751	634655
0.2020202	2.636364	0.1512098	2.152174	642885
0.2020202	2.656566	0.1488790	2.152598	650780
0.2020202	2.676768	0.1465442	2.153022	658364
0.2020202	2.696970	0.1442057	2.153447	665659
0.2020202	2.717172	0.1418637	2.153873	672685
0.2020202	2.737374	0.1395185	2.154300	679461
0.2020202	2.757576	0.1371703	2.154727	686002

0.2020202	2.777778	0.1348193	2.155154	692323
0.2020202	2.797980	0.1324657	2.155582	698437
0.2020202	2.818182	0.1301096	2.156010	704356
0.2020202	2.838384	0.1277511	2.156439	710092
0.2020202	2.858586	0.1253905	2.156868	715655
0.2020202	2.878788	0.1230279	2.157298	721054
0.2020202	2.898990	0.1206632	2.157728	726297
0.2020202	2.919192	0.1182968	2.158158	731393
0.2020202	2.939394	0.1159286	2.158589	736350
0.2020202	2.959596	0.1135587	2.159019	741173
0.2020202	2.979798	0.1111873	2.159451	745869
0.2020202	3.000000	0.1088143	2.159882	750445
0.2222222	1.000000	0.3778313	2.088752	1681157
0.2222222	1.020202	0.3753665	2.089116	1676494
0.2222222	1.040404	0.3729005	2.089480	1671756
0.2222222	1.060606	0.3704331	2.089845	1666940
0.2222222	1.080808	0.3679644	2.090209	1662042
0.2222222	1.101010	0.3654943	2.090574	1657061
0.2222222	1.121212	0.3630228	2.090939	1651991
0.2222222	1.141414	0.3605499	2.091305	1646830
0.2222222	1.161616	0.3580753	2.091670	1641573
0.2222222	1.181818	0.3555992	2.092036	1636217
0.2222222	1.202020	0.3531214	2.092402	1630756
0.2222222	1.222222	0.3506419	2.092768	1625187
0.2222222	1.242424	0.3481606	2.093135	1619503
0.2222222	1.262626	0.3456774	2.093502	1613700
0.2222222	1.282828	0.3431922	2.093869	1607773
0.2222222	1.303030	0.3407050	2.094236	1601713
0.2222222	1.323232	0.3382156	2.094604	1595516
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0.2222222	1.383838	0.3307335	2.095709	1576019
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0.2222222	1.484849	0.3182087	2.097560	1539955
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0.2222222	1.585859	0.3055962	2.099423	1498049
0.2222222	1.606061	0.3030604	2.099798	1488771
0.2222222	1.626263	0.3005194	2.100173	1479139
0.2222222	1.646465	0.2979727	2.100549	1469120
0.2222222	1.666667	0.2954200	2.100926	1458682
0.2222222	1.686869	0.2928605	2.101304	1447785
0.2222222	1.707071	0.2902937	2.101684	1436384
0.2222222	1.727273	0.2877190	2.102064	1424428
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0.2222222	1.767677	0.2825419	2.102829	1398600
0.2222222	1.787879	0.2799375	2.103213	1384575
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0.2222222	1.828283	0.2746899	2.103989	1353803
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0.2222222	2.171717	0.2206768	2.139543	176468
0.2222222	2.191919	0.2191042	2.139829	241461
0.2222222	2.212121	0.2173294	2.140152	291500
0.2222222	2.232323	0.2154281	2.140498	332149
0.2222222	2.252525	0.2134402	2.140859	366348
0.2222222	2.272727	0.2113895	2.141232	395842
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0.2222222	2.313131	0.2071551	2.142002	444840
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0.2222222	2.353535	0.2027983	2.142794	484580
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0.2222222	2.616162	0.1731522	2.148184	641073
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0.2222222	2.717172	0.1614630	2.150310	678808
0.2222222	2.737374	0.1591149	2.150737	685534
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0.2222222	2.797980	0.1520539	2.152020	704372
0.2222222	2.818182	0.1496953	2.152449	710250
0.2222222	2.838384	0.1473345	2.152878	715946
0.2222222	2.858586	0.1449716	2.153308	721469
0.2222222	2.878788	0.1426066	2.153738	726831
0.2222222	2.898990	0.1402398	2.154168	732038
0.2222222	2.919192	0.1378713	2.154599	737100
0.2222222	2.939394	0.1355010	2.155030	742022
0.2222222	2.959596	0.1331292	2.155461	746813
0.2222222	2.979798	0.1307558	2.155893	751478
0.2222222	3.000000	0.1283810	2.156325	756022
0.2424242	1.000000	0.3971026	2.085905	1685089
0.2424242	1.020202	0.3946394	2.086269	1680404
0.2424242	1.040404	0.3921749	2.086633	1675643
0.2424242	1.060606	0.3897092	2.086997	1670804
0.2424242	1.080808	0.3872421	2.087362	1665883
0.2424242	1.101010	0.3847738	2.087726	1660877
0.2424242	1.121212	0.3823040	2.088091	1655783
0.2424242	1.141414	0.3798327	2.088456	1650596
0.2424242	1.161616	0.3773599	2.088821	1645314
0.2424242	1.181818	0.3748856	2.089187	1639931
0.2424242	1.202020	0.3724096	2.089553	1634444
0.2424242	1.222222	0.3699320	2.089919	1628847
0.2424242	1.242424	0.3674525	2.090285	1623135
0.2424242	1.262626	0.3649712	2.090652	1617303
0.2424242	1.282828	0.3624880	2.091018	1611346
0.2424242	1.303030	0.3600027	2.091386	1605255
0.2424242	1.323232	0.3575153	2.091753	1599026
0.2424242	1.343434	0.3550257	2.092121	1592650
0.2424242	1.363636	0.3525338	2.092489	1586120
0.2424242	1.383838	0.3500394	2.092857	1579427
0.2424242	1.404040	0.3475425	2.093226	1572562
0.2424242	1.424242	0.3450428	2.093596	1565515
0.2424242	1.444444	0.3425403	2.093965	1558274
0.2424242	1.464646	0.3400347	2.094335	1550828
0.2424242	1.484849	0.3375259	2.094706	1543164
0.2424242	1.505051	0.3350137	2.095077	1535266
0.2424242	1.525252	0.3324979	2.095449	1527120
0.2424242	1.545454	0.3299782	2.095821	1518707
0.2424242	1.565657	0.3274543	2.096194	1510009
0.2424242	1.585859	0.3249260	2.096567	1501002
0.2424242	1.606061	0.3223929	2.096942	1491664
0.2424242	1.626263	0.3198547	2.097316	1481966
0.2424242	1.646465	0.3173109	2.097692	1471877
0.2424242	1.666667	0.3147610	2.098069	1461364
0.2424242	1.686869	0.3122046	2.098447	1450386
0.2424242	1.707071	0.3096409	2.098825	1438896
0.2424242	1.727273	0.3070693	2.099205	1426844
0.2424242	1.747475	0.3044890	2.099587	1414166

0.2424242	1.767677	0.3018989	2.099969	1400791
0.2424242	1.787879	0.2992980	2.100353	1386635
0.2424242	1.808081	0.2966847	2.100739	1371594
0.2424242	1.828283	0.2940576	2.101128	1355548
0.2424242	1.848485	0.2914145	2.101518	1338344
0.2424242	1.868687	0.2887530	2.101911	1319796
0.2424242	1.888889	0.2860699	2.102308	1299668
0.2424242	1.909091	0.2833611	2.102708	1277656
0.2424242	1.929293	0.2806212	2.103112	1253359
0.2424242	1.949495	0.2778429	2.103523	1226231
0.2424242	1.969697	0.2750161	2.103940	1195505
0.2424242	1.989899	0.2721256	2.104367	1160055
0.2424242	2.010101	0.2691481	2.104807	1118122
0.2424242	2.030303	0.2660440	2.105266	1066738
0.2424242	2.050505	0.2627384	2.105754	1000276
0.2424242	2.070707	0.2590601	2.106298	905840
0.2424242	2.090909	0.2544362	2.106981	740339
0.2424242	2.111111	0.3061768	2.099976	5000000
0.2424242	2.131313	0.3039062	2.100313	5000000
0.2424242	2.151515	0.2418909	2.135686	105956
0.2424242	2.171717	0.2405869	2.135924	193072
0.2424242	2.191919	0.2389540	2.136220	255292
0.2424242	2.212121	0.2371389	2.136550	303658
0.2424242	2.232323	0.2352082	2.136902	343185
0.2424242	2.252525	0.2331974	2.137267	376578
0.2424242	2.272727	0.2311282	2.137643	405463
0.2424242	2.292929	0.2290142	2.138028	430895
0.2424242	2.313131	0.2268651	2.138419	453598
0.2424242	2.333333	0.2246875	2.138814	474090
0.2424242	2.353535	0.2224866	2.139215	492752
0.2424242	2.373737	0.2202660	2.139618	509877
0.2424242	2.393939	0.2180288	2.140025	525691
0.2424242	2.414141	0.2157772	2.140434	540376
0.2424242	2.434343	0.2135133	2.140846	554075
0.2424242	2.454546	0.2112384	2.141260	566910
0.2424242	2.474747	0.2089539	2.141675	578977
0.2424242	2.494950	0.2066608	2.142092	590360
0.2424242	2.515151	0.2043601	2.142510	601130
0.2424242	2.535353	0.2020525	2.142930	611345
0.2424242	2.555556	0.1997387	2.143350	621058
0.2424242	2.575758	0.1974192	2.143772	630313
0.2424242	2.595960	0.1950945	2.144195	639150
0.2424242	2.616162	0.1927651	2.144618	647601
0.2424242	2.636364	0.1904314	2.145043	655699
0.2424242	2.656566	0.1880937	2.145468	663469
0.2424242	2.676768	0.1857523	2.145893	670935
0.2424242	2.696970	0.1834075	2.146320	678119
0.2424242	2.717172	0.1810594	2.146747	685040
0.2424242	2.737374	0.1787084	2.147174	691715
0.2424242	2.757576	0.1763547	2.147602	698160

0.2424242	2.777778	0.1739983	2.148030	704389
0.2424242	2.797980	0.1716395	2.148459	710415
0.2424242	2.818182	0.1692785	2.148889	716251
0.2424242	2.838384	0.1669152	2.149318	721906
0.2424242	2.858586	0.1645500	2.149748	727391
0.2424242	2.878788	0.1621829	2.150179	732714
0.2424242	2.898990	0.1598139	2.150609	737885
0.2424242	2.919192	0.1574432	2.151041	742911
0.2424242	2.939394	0.1550709	2.151472	747800
0.2424242	2.959596	0.1526971	2.151903	752557
0.2424242	2.979798	0.1503218	2.152335	757190
0.2424242	3.000000	0.1479452	2.152767	761704
0.2626263	1.000000	0.4163720	2.083058	1689114
0.2626263	1.020202	0.4139104	2.083422	1684406
0.2626263	1.040404	0.4114475	2.083786	1679622
0.2626263	1.060606	0.4089834	2.084150	1674758
0.2626263	1.080808	0.4065181	2.084514	1669813
0.2626263	1.101010	0.4040514	2.084878	1664783
0.2626263	1.121212	0.4015833	2.085243	1659663
0.2626263	1.141414	0.3991138	2.085608	1654451
0.2626263	1.161616	0.3966428	2.085973	1649143
0.2626263	1.181818	0.3941703	2.086338	1643733
0.2626263	1.202020	0.3916961	2.086704	1638218
0.2626263	1.222222	0.3892203	2.087069	1632593
0.2626263	1.242424	0.3867427	2.087435	1626853
0.2626263	1.262626	0.3842634	2.087802	1620991
0.2626263	1.282828	0.3817821	2.088168	1615003
0.2626263	1.303030	0.3792988	2.088535	1608881
0.2626263	1.323232	0.3768134	2.088902	1602620
0.2626263	1.343434	0.3743259	2.089270	1596211
0.2626263	1.363636	0.3718361	2.089637	1589646
0.2626263	1.383838	0.3693438	2.090006	1582917
0.2626263	1.404040	0.3668491	2.090374	1576015
0.2626263	1.424242	0.3643516	2.090743	1568929
0.2626263	1.444444	0.3618514	2.091112	1561647
0.2626263	1.464646	0.3593481	2.091482	1554159
0.2626263	1.484849	0.3568417	2.091852	1546450
0.2626263	1.505051	0.3543319	2.092223	1538507
0.2626263	1.525252	0.3518186	2.092595	1530311
0.2626263	1.545454	0.3493014	2.092966	1521847
0.2626263	1.565657	0.3467801	2.093339	1513094
0.2626263	1.585859	0.3442545	2.093712	1504029
0.2626263	1.606061	0.3417242	2.094086	1494629
0.2626263	1.626263	0.3391888	2.094460	1484865
0.2626263	1.646465	0.3366478	2.094836	1474706
0.2626263	1.666667	0.3341010	2.095212	1464116
0.2626263	1.686869	0.3315476	2.095589	1453055
0.2626263	1.707071	0.3289871	2.095967	1441475
0.2626263	1.727273	0.3264187	2.096347	1429324
0.2626263	1.747475	0.3238417	2.096728	1416538

0.2626263	1.767677	0.3212551	2.097110	1403043
0.2626263	1.787879	0.3186577	2.097493	1388753
0.2626263	1.808081	0.3160481	2.097879	1373562
0.2626263	1.828283	0.3134247	2.098266	1357344
0.2626263	1.848485	0.3107855	2.098656	1339944
0.2626263	1.868687	0.3081279	2.099049	1321169
0.2626263	1.888889	0.3054487	2.099445	1300773
0.2626263	1.909091	0.3027439	2.099844	1278441
0.2626263	1.929293	0.3000079	2.100248	1253753
0.2626263	1.949495	0.2972333	2.100658	1226138
0.2626263	1.969697	0.2944096	2.101075	1194785
0.2626263	1.989899	0.2915213	2.101502	1158496
0.2626263	2.010101	0.2885438	2.101942	1115381
0.2626263	2.030303	0.2854354	2.102401	1062205
0.2626263	2.050505	0.2821149	2.102892	992695
0.2626263	2.070707	0.2783891	2.103442	891910
0.2626263	2.090909	0.2735486	2.104157	704940
0.2626263	2.111111	0.3242655	2.097293	5000000
0.2626263	2.131313	0.2626263	2.131313	0
0.2626263	2.151515	0.2618791	2.132052	127084
0.2626263	2.171717	0.2604799	2.132307	209299
0.2626263	2.191919	0.2587916	2.132614	268967
0.2626263	2.212121	0.2569389	2.132950	315765
0.2626263	2.232323	0.2549803	2.133307	354227
0.2626263	2.252525	0.2529478	2.133676	386847
0.2626263	2.272727	0.2508607	2.134056	415145
0.2626263	2.292929	0.2487318	2.134443	440115
0.2626263	2.313131	0.2465699	2.134836	462443
0.2626263	2.333333	0.2443811	2.135234	482624
0.2626263	2.353535	0.2421703	2.135636	501024
0.2626263	2.373737	0.2399409	2.136041	517923
0.2626263	2.393939	0.2376956	2.136449	533542
0.2626263	2.414141	0.2354368	2.136860	548055
0.2626263	2.434343	0.2331661	2.137273	561602
0.2626263	2.454546	0.2308851	2.137688	574300
0.2626263	2.474747	0.2285949	2.138104	586244
0.2626263	2.494950	0.2262965	2.138522	597515
0.2626263	2.515151	0.2239908	2.138941	608182
0.2626263	2.535353	0.2216785	2.139361	618303
0.2626263	2.555556	0.2193603	2.139783	627929
0.2626263	2.575758	0.2170367	2.140205	637103
0.2626263	2.595960	0.2147081	2.140629	645864
0.2626263	2.616162	0.2123750	2.141053	654245
0.2626263	2.636364	0.2100377	2.141478	662276
0.2626263	2.656566	0.2076966	2.141904	669983
0.2626263	2.676768	0.2053519	2.142330	677390
0.2626263	2.696970	0.2030040	2.142757	684518
0.2626263	2.717172	0.2006530	2.143184	691386
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0.2626263	2.777778	0.1935837	2.144470	710590
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0.2626263	2.818182	0.1888589	2.145329	722364
0.2626263	2.838384	0.1864933	2.145759	727978
0.2626263	2.858586	0.1841258	2.146189	733423
0.2626263	2.878788	0.1817564	2.146620	738709
0.2626263	2.898990	0.1793853	2.147051	743843
0.2626263	2.919192	0.1770126	2.147483	748833
0.2626263	2.939394	0.1746383	2.147914	753687
0.2626263	2.959596	0.1722626	2.148346	758411
0.2626263	2.979798	0.1698854	2.148778	763011
0.2626263	3.000000	0.1675069	2.149211	767493
0.2828283	1.000000	0.4356395	2.080212	1693235
0.2828283	1.020202	0.4331795	2.080575	1688503
0.2828283	1.040404	0.4307183	2.080939	1683695
0.2828283	1.060606	0.4282559	2.081303	1678807
0.2828283	1.080808	0.4257922	2.081667	1673837
0.2828283	1.101010	0.4233272	2.082031	1668781
0.2828283	1.121212	0.4208609	2.082395	1663636
0.2828283	1.141414	0.4183931	2.082760	1658398
0.2828283	1.161616	0.4159239	2.083124	1653063
0.2828283	1.181818	0.4134532	2.083490	1647626
0.2828283	1.202020	0.4109809	2.083855	1642083
0.2828283	1.222222	0.4085069	2.084220	1636429
0.2828283	1.242424	0.4060313	2.084586	1630659
0.2828283	1.262626	0.4035538	2.084952	1624768
0.2828283	1.282828	0.4010745	2.085318	1618748
0.2828283	1.303030	0.3985932	2.085685	1612595
0.2828283	1.323232	0.3961099	2.086052	1606300
0.2828283	1.343434	0.3936245	2.086419	1599857
0.2828283	1.363636	0.3911367	2.086786	1593257
0.2828283	1.383838	0.3886467	2.087154	1586492
0.2828283	1.404040	0.3861541	2.087522	1579551
0.2828283	1.424242	0.3836589	2.087891	1572426
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0.2828283	1.464646	0.3786600	2.088629	1557572
0.2828283	1.484849	0.3761560	2.088999	1549819
0.2828283	1.505051	0.3736487	2.089370	1541827
0.2828283	1.525252	0.3711379	2.089741	1533583
0.2828283	1.545454	0.3686233	2.090112	1525066
0.2828283	1.565657	0.3661047	2.090484	1516257
0.2828283	1.585859	0.3635817	2.090857	1507134
0.2828283	1.606061	0.3610542	2.091230	1497670
0.2828283	1.626263	0.3585216	2.091604	1487839
0.2828283	1.646465	0.3559836	2.091979	1477608
0.2828283	1.666667	0.3534398	2.092355	1466940
0.2828283	1.686869	0.3508895	2.092732	1455795
0.2828283	1.707071	0.3483322	2.093110	1444124
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0.2828283	1.767677	0.3406104	2.094250	1405359
0.2828283	1.787879	0.3380166	2.094634	1390931
0.2828283	1.808081	0.3354107	2.095019	1375587
0.2828283	1.828283	0.3327912	2.095406	1359194
0.2828283	1.848485	0.3301559	2.095795	1341594
0.2828283	1.868687	0.3275023	2.096187	1322585
0.2828283	1.888889	0.3248272	2.096582	1301915
0.2828283	1.909091	0.3221264	2.096981	1279253
0.2828283	1.929293	0.3193945	2.097384	1254162
0.2828283	1.949495	0.3166237	2.097794	1226041
0.2828283	1.969697	0.3138033	2.098210	1194035
0.2828283	1.989899	0.3109172	2.098637	1156866
0.2828283	2.010101	0.3079399	2.099077	1112501
0.2828283	2.030303	0.3048268	2.099537	1057402
0.2828283	2.050505	0.3014897	2.100030	984548
0.2828283	2.070707	0.2977095	2.100588	876477
0.2828283	2.090909	0.2925813	2.101346	661126
0.2828283	2.111111	0.3423543	2.094609	5000000
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0.2828283	2.171717	0.2803571	2.128693	225201
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0.2828283	2.212121	0.2767298	2.129352	327838
0.2828283	2.232323	0.2747447	2.129713	365287
0.2828283	2.252525	0.2726913	2.130086	397167
0.2828283	2.272727	0.2705871	2.130469	424899
0.2828283	2.292929	0.2684438	2.130859	449420
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0.2828283	2.333333	0.2640699	2.131654	491260
0.2828283	2.353535	0.2618494	2.132058	509403
0.2828283	2.373737	0.2596113	2.132465	526081
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0.2828283	2.454546	0.2505281	2.134116	581809
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0.2828283	2.515151	0.2436181	2.135372	615355
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0.2828283	2.555556	0.2389786	2.136216	634921
0.2828283	2.575758	0.2366509	2.136639	644015
0.2828283	2.595960	0.2343184	2.137063	652700
0.2828283	2.616162	0.2319816	2.137488	661010
0.2828283	2.636364	0.2296409	2.137914	668975
0.2828283	2.656566	0.2272964	2.138340	676619
0.2828283	2.676768	0.2249486	2.138767	683967
0.2828283	2.696970	0.2225976	2.139194	691038
0.2828283	2.717172	0.2202437	2.139622	697852
0.2828283	2.737374	0.2178871	2.140051	704425
0.2828283	2.757576	0.2155279	2.140480	710773

0.2828283	2.777778	0.2131663	2.140909	716909
0.2828283	2.797980	0.2108025	2.141339	722846
0.2828283	2.818182	0.2084366	2.141769	728595
0.2828283	2.838384	0.2060687	2.142199	734168
0.2828283	2.858586	0.2036989	2.142630	739573
0.2828283	2.878788	0.2013274	2.143062	744820
0.2828283	2.898990	0.1989542	2.143493	749916
0.2828283	2.919192	0.1965794	2.143925	754870
0.2828283	2.939394	0.1942031	2.144357	759689
0.2828283	2.959596	0.1918255	2.144789	764378
0.2828283	2.979798	0.1894464	2.145222	768945
0.2828283	3.000000	0.1870661	2.145655	773395
0.3030303	1.000000	0.4549050	2.077366	1697456
0.3030303	1.020202	0.4524466	2.077729	1692700
0.3030303	1.040404	0.4499871	2.078092	1687867
0.3030303	1.060606	0.4475263	2.078456	1682954
0.3030303	1.080808	0.4450644	2.078820	1677959
0.3030303	1.101010	0.4426011	2.079184	1672877
0.3030303	1.121212	0.4401365	2.079548	1667706
0.3030303	1.141414	0.4376706	2.079912	1662441
0.3030303	1.161616	0.4352032	2.080276	1657078
0.3030303	1.181818	0.4327343	2.080641	1651613
0.3030303	1.202020	0.4302638	2.081006	1646042
0.3030303	1.222222	0.4277918	2.081371	1640359
0.3030303	1.242424	0.4253180	2.081737	1634559
0.3030303	1.262626	0.4228425	2.082102	1628636
0.3030303	1.282828	0.4203652	2.082468	1622585
0.3030303	1.303030	0.4178859	2.082835	1616399
0.3030303	1.323232	0.4154047	2.083201	1610071
0.3030303	1.343434	0.4129213	2.083568	1603593
0.3030303	1.363636	0.4104358	2.083935	1596957
0.3030303	1.383838	0.4079479	2.084303	1590155
0.3030303	1.404040	0.4054575	2.084671	1583176
0.3030303	1.424242	0.4029646	2.085039	1576010
0.3030303	1.444444	0.4004690	2.085408	1568646
0.3030303	1.464646	0.3979705	2.085777	1561071
0.3030303	1.484849	0.3954689	2.086146	1553271
0.3030303	1.505051	0.3929640	2.086516	1545232
0.3030303	1.525252	0.3904557	2.086887	1536937
0.3030303	1.545454	0.3879438	2.087258	1528367
0.3030303	1.565657	0.3854278	2.087630	1519502
0.3030303	1.585859	0.3829076	2.088002	1510318
0.3030303	1.606061	0.3803829	2.088375	1500791
0.3030303	1.626263	0.3778532	2.088749	1490892
0.3030303	1.646465	0.3753182	2.089123	1480587
0.3030303	1.666667	0.3727774	2.089498	1469840
0.3030303	1.686869	0.3702303	2.089875	1458609
0.3030303	1.707071	0.3676762	2.090252	1446845
0.3030303	1.727273	0.3651145	2.090630	1434491
0.3030303	1.747475	0.3625444	2.091010	1421482

0.3030303	1.767677	0.3599648	2.091391	1407741
0.3030303	1.787879	0.3573747	2.091774	1393174
0.3030303	1.808081	0.3547726	2.092158	1377672
0.3030303	1.828283	0.3521570	2.092545	1361101
0.3030303	1.848485	0.3495257	2.092933	1343295
0.3030303	1.868687	0.3468762	2.093325	1324047
0.3030303	1.888889	0.3442053	2.093719	1303095
0.3030303	1.909091	0.3415088	2.094118	1280094
0.3030303	1.929293	0.3387809	2.094521	1254586
0.3030303	1.949495	0.3360141	2.094929	1225941
0.3030303	1.969697	0.3331972	2.095346	1193253
0.3030303	1.989899	0.3303135	2.095772	1155161
0.3030303	2.010101	0.3273362	2.096211	1109470
0.3030303	2.030303	0.3242181	2.096672	1052303
0.3030303	2.050505	0.3208628	2.097168	975763
0.3030303	2.070707	0.3170193	2.097735	859241
0.3030303	2.090909	0.3114865	2.098553	604215
0.3030303	2.111111	0.3604430	2.091926	5000000
0.3030303	2.131313	0.3028777	2.124598	54943
0.3030303	2.151515	0.3017796	2.124798	166940
0.3030303	2.171717	0.3002193	2.125081	240828
0.3030303	2.191919	0.2984327	2.125406	295960
0.3030303	2.212121	0.2965116	2.125755	339895
0.3030303	2.232323	0.2945015	2.126121	376380
0.3030303	2.252525	0.2924281	2.126498	407549
0.3030303	2.272727	0.2903075	2.126883	434734
0.3030303	2.292929	0.2881503	2.127276	458819
0.3030303	2.313131	0.2859639	2.127673	480427
0.3030303	2.333333	0.2837538	2.128075	500007
0.3030303	2.353535	0.2815239	2.128481	517897
0.3030303	2.373737	0.2792775	2.128889	534359
0.3030303	2.393939	0.2770168	2.129300	549595
0.3030303	2.414141	0.2747439	2.129713	563771
0.3030303	2.434343	0.2724603	2.130128	577017
0.3030303	2.454546	0.2701672	2.130545	589445
0.3030303	2.474747	0.2678659	2.130964	601145
0.3030303	2.494950	0.2655572	2.131384	612194
0.3030303	2.515151	0.2632418	2.131804	622657
0.3030303	2.535353	0.2609204	2.132226	632591
0.3030303	2.555556	0.2585936	2.132650	642042
0.3030303	2.575758	0.2562618	2.133074	651055
0.3030303	2.595960	0.2539256	2.133498	659664
0.3030303	2.616162	0.2515851	2.133924	667904
0.3030303	2.636364	0.2492409	2.134350	675801
0.3030303	2.656566	0.2468932	2.134777	683383
0.3030303	2.676768	0.2445422	2.135204	690671
0.3030303	2.696970	0.2421882	2.135632	697685
0.3030303	2.717172	0.2398314	2.136061	704445
0.3030303	2.737374	0.2374720	2.136490	710967
0.3030303	2.757576	0.2351102	2.136919	717265

0.3030303	2.777778	0.2327460	2.137349	723354
0.3030303	2.797980	0.2303797	2.137779	729245
0.3030303	2.818182	0.2280114	2.138210	734951
0.3030303	2.838384	0.2256412	2.138641	740481
0.3030303	2.858586	0.2232693	2.139072	745845
0.3030303	2.878788	0.2208956	2.139504	751053
0.3030303	2.898990	0.2185203	2.139936	756111
0.3030303	2.919192	0.2161435	2.140368	761028
0.3030303	2.939394	0.2137653	2.140800	765811
0.3030303	2.959596	0.2113857	2.141233	770466
0.3030303	2.979798	0.2090048	2.141666	774999
0.3030303	3.000000	0.2066227	2.142099	779416
0.3232323	1.000000	0.4741685	2.074520	1701781
0.3232323	1.020202	0.4717117	2.074883	1697000
0.3232323	1.040404	0.4692539	2.075246	1692142
0.3232323	1.060606	0.4667948	2.075610	1687204
0.3232323	1.080808	0.4643346	2.075973	1682183
0.3232323	1.101010	0.4618731	2.076337	1677074
0.3232323	1.121212	0.4594103	2.076700	1671876
0.3232323	1.141414	0.4569461	2.077064	1666584
0.3232323	1.161616	0.4544805	2.077429	1661193
0.3232323	1.181818	0.4520134	2.077793	1655699
0.3232323	1.202020	0.4495449	2.078158	1650099
0.3232323	1.222222	0.4470747	2.078523	1644386
0.3232323	1.242424	0.4446029	2.078888	1638555
0.3232323	1.262626	0.4421294	2.079253	1632601
0.3232323	1.282828	0.4396541	2.079619	1626518
0.3232323	1.303030	0.4371769	2.079985	1620299
0.3232323	1.323232	0.4346977	2.080351	1613936
0.3232323	1.343434	0.4322165	2.080718	1607423
0.3232323	1.363636	0.4297331	2.081084	1600751
0.3232323	1.383838	0.4272474	2.081452	1593910
0.3232323	1.404040	0.4247593	2.081819	1586892
0.3232323	1.424242	0.4222687	2.082187	1579685
0.3232323	1.444444	0.4197754	2.082555	1572278
0.3232323	1.464646	0.4172793	2.082924	1564659
0.3232323	1.484849	0.4147802	2.083293	1556813
0.3232323	1.505051	0.4122778	2.083663	1548725
0.3232323	1.525252	0.4097721	2.084033	1540378
0.3232323	1.545454	0.4072628	2.084404	1531754
0.3232323	1.565657	0.4047495	2.084775	1522831
0.3232323	1.585859	0.4022321	2.085147	1513587
0.3232323	1.606061	0.3997103	2.085520	1503995
0.3232323	1.626263	0.3971835	2.085893	1494026
0.3232323	1.646465	0.3946515	2.086267	1483647
0.3232323	1.666667	0.3921138	2.086642	1472819
0.3232323	1.686869	0.3895699	2.087018	1461501
0.3232323	1.707071	0.3870191	2.087394	1449642
0.3232323	1.727273	0.3844609	2.087772	1437184
0.3232323	1.747475	0.3818942	2.088152	1424061

0.3232323	1.767677	0.3793183	2.088532	1410192
0.3232323	1.787879	0.3767319	2.088914	1395483
0.3232323	1.808081	0.3741337	2.089298	1379821
0.3232323	1.828283	0.3715220	2.089684	1363067
0.3232323	1.848485	0.3688949	2.090072	1345051
0.3232323	1.868687	0.3662496	2.090463	1325558
0.3232323	1.888889	0.3635830	2.090857	1304315
0.3232323	1.909091	0.3608908	2.091254	1280964
0.3232323	1.929293	0.3581673	2.091657	1255026
0.3232323	1.949495	0.3554045	2.092065	1225837
0.3232323	1.969697	0.3525912	2.092481	1192438
0.3232323	1.989899	0.3497100	2.092906	1153375
0.3232323	2.010101	0.3467328	2.093346	1106276
0.3232323	2.030303	0.3436093	2.093807	1046879
0.3232323	2.050505	0.3402338	2.094306	966253
0.3232323	2.070707	0.3363157	2.094885	839804
0.3232323	2.090909	0.3301593	2.095794	524113
0.3232323	2.111111	0.3785317	2.089242	5000000
0.3232323	2.131313	0.3229302	2.120952	81911
0.3232323	2.151515	0.3216965	2.121176	185905
0.3232323	2.171717	0.3200673	2.121472	256224
0.3232323	2.191919	0.3182370	2.121805	309329
0.3232323	2.212121	0.3162847	2.122160	351953
0.3232323	2.232323	0.3142508	2.122530	387519
0.3232323	2.252525	0.3121583	2.122911	418005
0.3232323	2.272727	0.3100219	2.123299	444660
0.3232323	2.292929	0.3078512	2.123694	468323
0.3232323	2.313131	0.3056532	2.124093	489583
0.3232323	2.333333	0.3034328	2.124497	508873
0.3232323	2.353535	0.3011938	2.124904	526516
0.3232323	2.373737	0.2989392	2.125314	542763
0.3232323	2.393939	0.2966710	2.125726	557813
0.3232323	2.414141	0.2943913	2.126141	571822
0.3232323	2.434343	0.2921014	2.126557	584921
0.3232323	2.454546	0.2898026	2.126975	597216
0.3232323	2.474747	0.2874959	2.127395	608795
0.3232323	2.494950	0.2851821	2.127815	619733
0.3232323	2.515151	0.2828620	2.128237	630095
0.3232323	2.535353	0.2805362	2.128660	639935
0.3232323	2.555556	0.2782052	2.129084	649300
0.3232323	2.575758	0.2758694	2.129509	658231
0.3232323	2.595960	0.2735294	2.129934	666765
0.3232323	2.616162	0.2711854	2.130360	674933
0.3232323	2.636364	0.2688378	2.130787	682763
0.3232323	2.656566	0.2664868	2.131215	690281
0.3232323	2.676768	0.2641328	2.131642	697509
0.3232323	2.696970	0.2617758	2.132071	704466
0.3232323	2.717172	0.2594162	2.132500	711171
0.3232323	2.737374	0.2570540	2.132929	717641
0.3232323	2.757576	0.2546895	2.133359	723889

0.3232323	2.777778	0.2523229	2.133790	729930
0.3232323	2.797980	0.2499541	2.134220	735775
0.3232323	2.818182	0.2475835	2.134651	741436
0.3232323	2.838384	0.2452110	2.135083	746924
0.3232323	2.858586	0.2428368	2.135514	752247
0.3232323	2.878788	0.2404610	2.135947	757414
0.3232323	2.898990	0.2380837	2.136379	762434
0.3232323	2.919192	0.2357049	2.136811	767314
0.3232323	2.939394	0.2333248	2.137244	772060
0.3232323	2.959596	0.2309433	2.137677	776680
0.3232323	2.979798	0.2285606	2.138110	781179
0.3232323	3.000000	0.2261768	2.138544	785562
0.3434343	1.000000	0.4934298	2.071675	1706216
0.3434343	1.020202	0.4909748	2.072037	1701409
0.3434343	1.040404	0.4885186	2.072400	1696525
0.3434343	1.060606	0.4860613	2.072763	1691561
0.3434343	1.080808	0.4836028	2.073126	1686513
0.3434343	1.101010	0.4811430	2.073490	1681378
0.3434343	1.121212	0.4786820	2.073853	1676152
0.3434343	1.141414	0.4762196	2.074217	1670831
0.3434343	1.161616	0.4737559	2.074581	1665412
0.3434343	1.181818	0.4712907	2.074945	1659889
0.3434343	1.202020	0.4688240	2.075310	1654259
0.3434343	1.222222	0.4663558	2.075674	1648515
0.3434343	1.242424	0.4638860	2.076039	1642653
0.3434343	1.262626	0.4614144	2.076404	1636667
0.3434343	1.282828	0.4589412	2.076770	1630551
0.3434343	1.303030	0.4564660	2.077135	1624297
0.3434343	1.323232	0.4539890	2.077501	1617900
0.3434343	1.343434	0.4515099	2.077867	1611350
0.3434343	1.363636	0.4490287	2.078234	1604641
0.3434343	1.383838	0.4465452	2.078601	1597762
0.3434343	1.404040	0.4440594	2.078968	1590703
0.3434343	1.424242	0.4415711	2.079336	1583455
0.3434343	1.444444	0.4390802	2.079704	1576005
0.3434343	1.464646	0.4365865	2.080072	1568340
0.3434343	1.484849	0.4340899	2.080441	1560447
0.3434343	1.505051	0.4315901	2.080810	1552309
0.3434343	1.525252	0.4290870	2.081180	1543910
0.3434343	1.545454	0.4265803	2.081550	1535230
0.3434343	1.565657	0.4240698	2.081921	1526249
0.3434343	1.585859	0.4215552	2.082293	1516943
0.3434343	1.606061	0.4190362	2.082665	1507285
0.3434343	1.626263	0.4165124	2.083038	1497245
0.3434343	1.646465	0.4139835	2.083411	1486790
0.3434343	1.666667	0.4114490	2.083786	1475881
0.3434343	1.686869	0.4089083	2.084161	1464474
0.3434343	1.707071	0.4063609	2.084537	1452518
0.3434343	1.727273	0.4038061	2.084915	1439955
0.3434343	1.747475	0.4012430	2.085293	1426715

0.3434343	1.767677	0.3986708	2.085673	1412716
0.3434343	1.787879	0.3960882	2.086055	1397862
0.3434343	1.808081	0.3934939	2.086438	1382036
0.3434343	1.828283	0.3908864	2.086823	1365096
0.3434343	1.848485	0.3882634	2.087211	1346864
0.3434343	1.868687	0.3856225	2.087601	1327119
0.3434343	1.888889	0.3829603	2.087994	1305578
0.3434343	1.909091	0.3802726	2.088391	1281866
0.3434343	1.929293	0.3775535	2.088793	1255483
0.3434343	1.949495	0.3747950	2.089200	1225728
0.3434343	1.969697	0.3719854	2.089615	1191586
0.3434343	1.989899	0.3691068	2.090041	1151502
0.3434343	2.010101	0.3661298	2.090480	1102905
0.3434343	2.030303	0.3630004	2.090943	1041094
0.3434343	2.050505	0.3596023	2.091445	955916
0.3434343	2.070707	0.3555951	2.092037	817625
0.3434343	2.090909	0.3482861	2.093116	391313
0.3434343	2.111111	0.3966205	2.086559	5000000
0.3434343	2.131313	0.3429446	2.117313	107295
0.3434343	2.151515	0.3415937	2.117559	204356
0.3434343	2.171717	0.3399019	2.117866	271429
0.3434343	2.191919	0.3380309	2.118206	322646
0.3434343	2.212121	0.3360493	2.118567	364031
0.3434343	2.232323	0.3339927	2.118941	398718
0.3434343	2.252525	0.3318820	2.119324	428547
0.3434343	2.272727	0.3297303	2.119716	454690
0.3434343	2.292929	0.3275466	2.120113	477941
0.3434343	2.313131	0.3253373	2.120514	498863
0.3434343	2.333333	0.3231070	2.120920	517868
0.3434343	2.353535	0.3208591	2.121329	535268
0.3434343	2.373737	0.3185964	2.121740	551304
0.3434343	2.393939	0.3163210	2.122154	566169
0.3434343	2.414141	0.3140346	2.122569	580015
0.3434343	2.434343	0.3117386	2.122987	592967
0.3434343	2.454546	0.3094341	2.123406	605129
0.3434343	2.474747	0.3071221	2.123826	616588
0.3434343	2.494950	0.3048034	2.124248	627416
0.3434343	2.515151	0.3024786	2.124671	637677
0.3434343	2.535353	0.3001484	2.125094	647423
0.3434343	2.555556	0.2978133	2.125519	656700
0.3434343	2.575758	0.2954737	2.125944	665551
0.3434343	2.595960	0.2931299	2.126370	674008
0.3434343	2.616162	0.2907824	2.126797	682105
0.3434343	2.636364	0.2884315	2.127225	689867
0.3434343	2.656566	0.2860773	2.127653	697321
0.3434343	2.676768	0.2837202	2.128081	704488
0.3434343	2.696970	0.2813603	2.128510	711388
0.3434343	2.717172	0.2789978	2.128940	718038
0.3434343	2.737374	0.2766330	2.129370	724454
0.3434343	2.757576	0.2742659	2.129800	730652

0.3434343	2.777778	0.2718968	2.130231	736644
0.3434343	2.797980	0.2695256	2.130662	742443
0.3434343	2.818182	0.2671526	2.131093	748059
0.3434343	2.838384	0.2647779	2.131525	753503
0.3434343	2.858586	0.2624016	2.131957	758784
0.3434343	2.878788	0.2600237	2.132390	763911
0.3434343	2.898990	0.2576443	2.132822	768892
0.3434343	2.919192	0.2552636	2.133255	773733
0.3434343	2.939394	0.2528815	2.133688	778442
0.3434343	2.959596	0.2504982	2.134122	783026
0.3434343	2.979798	0.2481137	2.134555	787490
0.3434343	3.000000	0.2457281	2.134989	791839
0.3636364	1.000000	0.5126890	2.068830	1710765
0.3636364	1.020202	0.5102356	2.069192	1705932
0.3636364	1.040404	0.5077812	2.069555	1701022
0.3636364	1.060606	0.5053256	2.069917	1696030
0.3636364	1.080808	0.5028688	2.070280	1690955
0.3636364	1.101010	0.5004109	2.070644	1685792
0.3636364	1.121212	0.4979516	2.071007	1680538
0.3636364	1.141414	0.4954911	2.071370	1675188
0.3636364	1.161616	0.4930292	2.071734	1669739
0.3636364	1.181818	0.4905659	2.072098	1664187
0.3636364	1.202020	0.4881012	2.072462	1658526
0.3636364	1.222222	0.4856349	2.072826	1652751
0.3636364	1.242424	0.4831670	2.073191	1646857
0.3636364	1.262626	0.4806975	2.073556	1640838
0.3636364	1.282828	0.4782263	2.073921	1634688
0.3636364	1.303030	0.4757533	2.074286	1628400
0.3636364	1.323232	0.4732783	2.074652	1621967
0.3636364	1.343434	0.4708014	2.075018	1615380
0.3636364	1.363636	0.4683224	2.075384	1608633
0.3636364	1.383838	0.4658412	2.075750	1601714
0.3636364	1.404040	0.4633577	2.076117	1594615
0.3636364	1.424242	0.4608718	2.076484	1587324
0.3636364	1.444444	0.4583832	2.076852	1579830
0.3636364	1.464646	0.4558920	2.077220	1572119
0.3636364	1.484849	0.4533979	2.077589	1564177
0.3636364	1.505051	0.4509007	2.077958	1555989
0.3636364	1.525252	0.4484002	2.078327	1547536
0.3636364	1.545454	0.4458962	2.078697	1538801
0.3636364	1.565657	0.4433885	2.079067	1529760
0.3636364	1.585859	0.4408768	2.079438	1520391
0.3636364	1.606061	0.4383607	2.079810	1510665
0.3636364	1.626263	0.4358400	2.080182	1500554
0.3636364	1.646465	0.4333142	2.080556	1490022
0.3636364	1.666667	0.4307828	2.080929	1479029
0.3636364	1.686869	0.4282454	2.081304	1467532
0.3636364	1.707071	0.4257014	2.081680	1455478
0.3636364	1.727273	0.4231501	2.082057	1442806
0.3636364	1.747475	0.4205907	2.082435	1429447

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0.3636364	1.787879	0.4154435	2.083195	1400314
0.3636364	1.808081	0.4128533	2.083578	1384321
0.3636364	1.828283	0.4102499	2.083963	1367189
0.3636364	1.848485	0.4076313	2.084350	1348737
0.3636364	1.868687	0.4049948	2.084739	1328734
0.3636364	1.888889	0.4023372	2.085132	1306885
0.3636364	1.909091	0.3996541	2.085528	1282802
0.3636364	1.929293	0.3969396	2.085929	1255957
0.3636364	1.949495	0.3941855	2.086336	1225615
0.3636364	1.969697	0.3913798	2.086750	1190697
0.3636364	1.989899	0.3885040	2.087175	1149535
0.3636364	2.010101	0.3855271	2.087615	1099342
0.3636364	2.030303	0.3823913	2.088078	1034911
0.3636364	2.050505	0.3789678	2.088584	944626
0.3636364	2.070707	0.3748519	2.089192	791943
0.3636364	2.090909	0.3636364	2.090909	0
0.3636364	2.111111	0.3636364	2.111111	0
0.3636364	2.131313	0.3629260	2.113680	131381
0.3636364	2.151515	0.3614726	2.113944	222375
0.3636364	2.171717	0.3597238	2.114262	286482
0.3636364	2.191919	0.3578149	2.114609	335934
0.3636364	2.212121	0.3558056	2.114975	376145
0.3636364	2.232323	0.3537274	2.115353	409992
0.3636364	2.252525	0.3515991	2.115740	439188
0.3636364	2.272727	0.3494328	2.116133	464835
0.3636364	2.292929	0.3472365	2.116533	487686
0.3636364	2.313131	0.3450163	2.116936	508276
0.3636364	2.333333	0.3427763	2.117344	527002
0.3636364	2.353535	0.3405198	2.117754	544163
0.3636364	2.373737	0.3382493	2.118167	559992
0.3636364	2.393939	0.3359667	2.118582	574674
0.3636364	2.414141	0.3336738	2.118999	588357
0.3636364	2.434343	0.3313718	2.119417	601163
0.3636364	2.454546	0.3290617	2.119837	613194
0.3636364	2.474747	0.3267445	2.120258	624533
0.3636364	2.494950	0.3244209	2.120681	635252
0.3636364	2.515151	0.3220916	2.121104	645411
0.3636364	2.535353	0.3197571	2.121529	655063
0.3636364	2.555556	0.3174179	2.121954	664254
0.3636364	2.575758	0.3150745	2.122380	673022
0.3636364	2.595960	0.3127271	2.122807	681403
0.3636364	2.616162	0.3103761	2.123235	689427
0.3636364	2.636364	0.3080219	2.123663	697122
0.3636364	2.656566	0.3056645	2.124091	704511
0.3636364	2.676768	0.3033044	2.124520	711617
0.3636364	2.696970	0.3009416	2.124950	718458
0.3636364	2.717172	0.2985764	2.125380	725052
0.3636364	2.737374	0.2962089	2.125811	731415
0.3636364	2.757576	0.2938393	2.126241	737562

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0.3636364	2.818182	0.2867189	2.127536	754826
0.3636364	2.838384	0.2843419	2.127968	760226
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0.3636364	2.878788	0.2795835	2.128833	770550
0.3636364	2.898990	0.2772021	2.129266	775490
0.3636364	2.919192	0.2748194	2.129699	780293
0.3636364	2.939394	0.2724355	2.130133	784964
0.3636364	2.959596	0.2700503	2.130567	789511
0.3636364	2.979798	0.2676641	2.131000	793939
0.3636364	3.000000	0.2652767	2.131435	798253
0.3838384	1.000000	0.5319459	2.065985	1715434
0.3838384	1.020202	0.5294943	2.066347	1710574
0.3838384	1.040404	0.5270415	2.066709	1705637
0.3838384	1.060606	0.5245877	2.067072	1700617
0.3838384	1.080808	0.5221327	2.067435	1695514
0.3838384	1.101010	0.5196765	2.067797	1690322
0.3838384	1.121212	0.5172191	2.068160	1685039
0.3838384	1.141414	0.5147604	2.068524	1679660
0.3838384	1.161616	0.5123004	2.068887	1674181
0.3838384	1.181818	0.5098391	2.069251	1668598
0.3838384	1.202020	0.5073762	2.069615	1662905
0.3838384	1.222222	0.5049119	2.069978	1657098
0.3838384	1.242424	0.5024461	2.070343	1651171
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0.3838384	1.303030	0.4950385	2.071437	1632611
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0.3838384	1.363636	0.4876142	2.072534	1612730
0.3838384	1.383838	0.4851353	2.072900	1605772
0.3838384	1.404040	0.4826541	2.073267	1598631
0.3838384	1.424242	0.4801706	2.073634	1591297
0.3838384	1.444444	0.4776845	2.074001	1583757
0.3838384	1.464646	0.4751958	2.074368	1575999
0.3838384	1.484849	0.4727042	2.074737	1568008
0.3838384	1.505051	0.4702096	2.075105	1559769
0.3838384	1.525252	0.4677118	2.075474	1551262
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0.3838384	1.565657	0.4627056	2.076214	1533368
0.3838384	1.585859	0.4601968	2.076584	1523934
0.3838384	1.606061	0.4576837	2.076955	1514141
0.3838384	1.626263	0.4551660	2.077327	1503956
0.3838384	1.646465	0.4526434	2.077700	1493345
0.3838384	1.666667	0.4501153	2.078073	1482268
0.3838384	1.686869	0.4475812	2.078448	1470679
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0.3838384	1.808081	0.4322118	2.080718	1386679
0.3838384	1.828283	0.4296127	2.081102	1369352
0.3838384	1.848485	0.4269985	2.081488	1350673
0.3838384	1.868687	0.4243665	2.081877	1330405
0.3838384	1.888889	0.4217136	2.082269	1308240
0.3838384	1.909091	0.4190352	2.082665	1283773
0.3838384	1.929293	0.4163255	2.083065	1256451
0.3838384	1.949495	0.4135760	2.083471	1225497
0.3838384	1.969697	0.4107745	2.083885	1189766
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0.3838384	2.010101	0.4049247	2.084749	1095569
0.3838384	2.030303	0.4017819	2.085214	1028283
0.3838384	2.050505	0.3983298	2.085724	932228
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0.3838384	2.131313	0.3828783	2.110053	154395
0.3838384	2.151515	0.3813344	2.110333	240032
0.3838384	2.171717	0.3795335	2.110661	301418
0.3838384	2.191919	0.3775893	2.111014	349218
0.3838384	2.212121	0.3755537	2.111384	388315
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0.3838384	2.292929	0.3669209	2.112954	497568
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0.3838384	2.333333	0.3624407	2.113768	536287
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0.3838384	2.454546	0.3486853	2.116269	621421
0.3838384	2.474747	0.3463630	2.116692	632640
0.3838384	2.494950	0.3440346	2.117115	643249
0.3838384	2.515151	0.3417008	2.117539	653307
0.3838384	2.535353	0.3393621	2.117964	662865
0.3838384	2.555556	0.3370190	2.118390	671968
0.3838384	2.575758	0.3346717	2.118817	680655
0.3838384	2.595960	0.3323208	2.119245	688959
0.3838384	2.616162	0.3299664	2.119673	696910
0.3838384	2.636364	0.3276089	2.120101	704536
0.3838384	2.656566	0.3252485	2.120531	711860
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0.3838384	2.818182	0.3062821	2.123979	761746
0.3838384	2.838384	0.3039030	2.124411	767101
0.3838384	2.858586	0.3015224	2.124844	772296
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0.3838384	2.898990	0.2967570	2.125711	782238
0.3838384	2.919192	0.2943724	2.126144	787001
0.3838384	2.939394	0.2919866	2.126578	791634
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0.4040404	1.101010	0.5389400	2.064952	1694974
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0.4040404	1.181818	0.5291100	2.066404	1673127
0.4040404	1.202020	0.5266492	2.066767	1667402
0.4040404	1.222222	0.5241869	2.067131	1661562
0.4040404	1.242424	0.5217230	2.067495	1655602
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0.4040404	1.282828	0.5167906	2.068224	1643295
0.4040404	1.303030	0.5143218	2.068588	1636935
0.4040404	1.323232	0.5118511	2.068953	1630428
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0.4040404	1.363636	0.5069041	2.069684	1616939
0.4040404	1.383838	0.5044275	2.070050	1609940
0.4040404	1.404040	0.5019487	2.070416	1602756
0.4040404	1.424242	0.4994675	2.070783	1595378
0.4040404	1.444444	0.4969839	2.071150	1587792
0.4040404	1.464646	0.4944977	2.071517	1579987
0.4040404	1.484849	0.4920087	2.071885	1571946
0.4040404	1.505051	0.4895167	2.072253	1563653
0.4040404	1.525252	0.4870216	2.072621	1555091
0.4040404	1.545454	0.4845232	2.072990	1546240
0.4040404	1.565657	0.4820211	2.073360	1537077
0.4040404	1.585859	0.4795152	2.073730	1527578
0.4040404	1.606061	0.4770051	2.074101	1517715
0.4040404	1.626263	0.4744905	2.074473	1507455
0.4040404	1.646465	0.4719711	2.074845	1496765
0.4040404	1.666667	0.4694463	2.075218	1485601
0.4040404	1.686869	0.4669157	2.075592	1473918
0.4040404	1.707071	0.4643787	2.075966	1461662
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0.4040404	1.808081	0.4515694	2.077859	1389113
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0.4040404	1.868687	0.4437376	2.079016	1332135
0.4040404	1.888889	0.4410895	2.079407	1309645
0.4040404	1.909091	0.4384161	2.079802	1284781
0.4040404	1.929293	0.4357113	2.080201	1256964
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0.4040404	1.969697	0.4301693	2.081020	1188791
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0.4040404	2.010101	0.4243228	2.081884	1091566
0.4040404	2.030303	0.4211723	2.082349	1021158
0.4040404	2.050505	0.4176874	2.082864	918529
0.4040404	2.070707	0.4132607	2.083518	724960
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0.4040404	2.111111	0.4039315	2.106225	47326
0.4040404	2.131313	0.4028045	2.106429	176524
0.4040404	2.151515	0.4011804	2.106725	257393
0.4040404	2.171717	0.3993314	2.107061	316272
0.4040404	2.191919	0.3973541	2.107420	362519
0.4040404	2.212121	0.3952937	2.107795	400557
0.4040404	2.232323	0.3931753	2.108180	432826
0.4040404	2.252525	0.3910141	2.108573	460821
0.4040404	2.272727	0.3888199	2.108972	485520
0.4040404	2.292929	0.3865998	2.109376	507600
0.4040404	2.313131	0.3843586	2.109783	527550
0.4040404	2.333333	0.3821001	2.110194	545733
0.4040404	2.353535	0.3798269	2.110607	562427
0.4040404	2.373737	0.3775413	2.111023	577848
0.4040404	2.393939	0.3752451	2.111440	592170
0.4040404	2.414141	0.3729395	2.111859	605533
0.4040404	2.434343	0.3706258	2.112280	618051
0.4040404	2.454546	0.3683049	2.112702	629820
0.4040404	2.474747	0.3659776	2.113125	640920
0.4040404	2.494950	0.3636445	2.113549	651419
0.4040404	2.515151	0.3613064	2.113975	661375
0.4040404	2.535353	0.3589635	2.114401	670839
0.4040404	2.555556	0.3566164	2.114827	679854
0.4040404	2.575758	0.3542655	2.115255	688458
0.4040404	2.595960	0.3519110	2.115683	696684
0.4040404	2.616162	0.3495533	2.116112	704563
0.4040404	2.636364	0.3471926	2.116541	712119
0.4040404	2.656566	0.3448291	2.116970	719377
0.4040404	2.676768	0.3424630	2.117401	726358
0.4040404	2.696970	0.3400946	2.117831	733080
0.4040404	2.717172	0.3377240	2.118262	739560
0.4040404	2.737374	0.3353513	2.118694	745814
0.4040404	2.757576	0.3329766	2.119125	751855

0.4040404	2.777778	0.3306002	2.119557	757697
0.4040404	2.797980	0.3282220	2.119990	763351
0.4040404	2.818182	0.3258422	2.120423	768827
0.4040404	2.838384	0.3234610	2.120856	774136
0.4040404	2.858586	0.3210783	2.121289	779286
0.4040404	2.878788	0.3186943	2.121722	784287
0.4040404	2.898990	0.3163089	2.122156	789144
0.4040404	2.919192	0.3139224	2.122590	793866
0.4040404	2.939394	0.3115348	2.123024	798459
0.4040404	2.959596	0.3091461	2.123458	802929
0.4040404	2.979798	0.3067563	2.123893	807283
0.4040404	3.000000	0.3043655	2.124328	811524
0.4242424	1.000000	0.5704527	2.060296	1725156
0.4242424	1.020202	0.5680045	2.060658	1720240
0.4242424	1.040404	0.5655553	2.061020	1715245
0.4242424	1.060606	0.5631050	2.061382	1710168
0.4242424	1.080808	0.5606536	2.061744	1705005
0.4242424	1.101010	0.5582011	2.062106	1699754
0.4242424	1.121212	0.5557474	2.062469	1694410
0.4242424	1.141414	0.5532924	2.062831	1688969
0.4242424	1.161616	0.5508363	2.063194	1683428
0.4242424	1.181818	0.5483787	2.063557	1677780
0.4242424	1.202020	0.5459199	2.063921	1672023
0.4242424	1.222222	0.5434596	2.064284	1666149
0.4242424	1.242424	0.5409978	2.064648	1660154
0.4242424	1.262626	0.5385345	2.065012	1654032
0.4242424	1.282828	0.5360695	2.065376	1647776
0.4242424	1.303030	0.5336029	2.065740	1641379
0.4242424	1.323232	0.5311345	2.066105	1634834
0.4242424	1.343434	0.5286642	2.066470	1628132
0.4242424	1.363636	0.5261920	2.066835	1621265
0.4242424	1.383838	0.5237177	2.067200	1614223
0.4242424	1.404040	0.5212413	2.067566	1606996
0.4242424	1.424242	0.5187625	2.067932	1599573
0.4242424	1.444444	0.5162814	2.068299	1591940
0.4242424	1.464646	0.5137977	2.068666	1584086
0.4242424	1.484849	0.5113113	2.069033	1575993
0.4242424	1.505051	0.5088220	2.069401	1567647
0.4242424	1.525252	0.5063297	2.069769	1559029
0.4242424	1.545454	0.5038340	2.070138	1550118
0.4242424	1.565657	0.5013349	2.070507	1540893
0.4242424	1.585859	0.4988319	2.070877	1531327
0.4242424	1.606061	0.4963249	2.071247	1521393
0.4242424	1.626263	0.4938135	2.071618	1511058
0.4242424	1.646465	0.4912973	2.071990	1500285
0.4242424	1.666667	0.4887758	2.072362	1489034
0.4242424	1.686869	0.4862487	2.072736	1477255
0.4242424	1.707071	0.4837152	2.073110	1464895
0.4242424	1.727273	0.4811748	2.073485	1451887
0.4242424	1.747475	0.4786267	2.073862	1438156

0.4242424	1.767677	0.4760700	2.074239	1423612
0.4242424	1.787879	0.4735035	2.074618	1408147
0.4242424	1.808081	0.4709259	2.074999	1391628
0.4242424	1.828283	0.4683356	2.075382	1373896
0.4242424	1.848485	0.4657305	2.075767	1354748
0.4242424	1.868687	0.4631081	2.076154	1333927
0.4242424	1.888889	0.4604649	2.076545	1311102
0.4242424	1.909091	0.4577966	2.076939	1285829
0.4242424	1.929293	0.4550969	2.077338	1257499
0.4242424	1.949495	0.4523572	2.077742	1225245
0.4242424	1.969697	0.4495644	2.078155	1187769
0.4242424	1.989899	0.4466978	2.078578	1142998
0.4242424	2.010101	0.4437212	2.079018	1087311
0.4242424	2.030303	0.4405623	2.079485	1013474
0.4242424	2.050505	0.4370396	2.080005	903280
0.4242424	2.070707	0.4323773	2.080694	678957
0.4242424	2.090909	0.4712460	2.075489	5000000
0.4242424	2.111111	0.4239871	2.102578	79318
0.4242424	2.131313	0.4227071	2.102811	197918
0.4242424	2.151515	0.4210112	2.103119	274515
0.4242424	2.171717	0.4191181	2.103463	331076
0.4242424	2.191919	0.4171098	2.103829	375863
0.4242424	2.212121	0.4150259	2.104207	412891
0.4242424	2.232323	0.4128887	2.104596	444419
0.4242424	2.252525	0.4107119	2.104992	471843
0.4242424	2.272727	0.4085046	2.105393	496088
0.4242424	2.292929	0.4062732	2.105799	517797
0.4242424	2.313131	0.4040220	2.106208	537437
0.4242424	2.333333	0.4017545	2.106620	555355
0.4242424	2.353535	0.3994733	2.107035	571820
0.4242424	2.373737	0.3971805	2.107452	587041
0.4242424	2.393939	0.3948776	2.107871	601185
0.4242424	2.414141	0.3925659	2.108291	614389
0.4242424	2.434343	0.3902465	2.108713	626764
0.4242424	2.454546	0.3879204	2.109136	638402
0.4242424	2.474747	0.3855882	2.109560	649383
0.4242424	2.494950	0.3832505	2.109985	659772
0.4242424	2.515151	0.3809080	2.110411	669627
0.4242424	2.535353	0.3785611	2.110837	678996
0.4242424	2.555556	0.3762102	2.111265	687922
0.4242424	2.575758	0.3738556	2.111693	696443
0.4242424	2.595960	0.3714976	2.112122	704591
0.4242424	2.616162	0.3691366	2.112551	712395
0.4242424	2.636364	0.3667727	2.112981	719881
0.4242424	2.656566	0.3644062	2.113411	727073
0.4242424	2.676768	0.3620373	2.113842	733989
0.4242424	2.696970	0.3596661	2.114273	740650
0.4242424	2.717172	0.3572928	2.114704	747072
0.4242424	2.737374	0.3549176	2.115136	753270
0.4242424	2.757576	0.3525405	2.115568	759257

0.4242424	2.777778	0.3501617	2.116001	765047
0.4242424	2.797980	0.3477812	2.116434	770651
0.4242424	2.818182	0.3453993	2.116867	776079
0.4242424	2.838384	0.3430159	2.117300	781341
0.4242424	2.858586	0.3406311	2.117734	786445
0.4242424	2.878788	0.3382451	2.118168	791401
0.4242424	2.898990	0.3358579	2.118602	796216
0.4242424	2.919192	0.3334695	2.119036	800896
0.4242424	2.939394	0.3310800	2.119470	805449
0.4242424	2.959596	0.3286895	2.119905	809879
0.4242424	2.979798	0.3262981	2.120340	814194
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0.4444444	1.040404	0.5848085	2.058176	1720251
0.4444444	1.060606	0.5823600	2.058537	1715143
0.4444444	1.080808	0.5799104	2.058899	1709950
0.4444444	1.101010	0.5774598	2.059261	1704668
0.4444444	1.121212	0.5750079	2.059623	1699292
0.4444444	1.141414	0.5725549	2.059986	1693819
0.4444444	1.161616	0.5701007	2.060348	1688245
0.4444444	1.181818	0.5676451	2.060711	1682565
0.4444444	1.202020	0.5651883	2.061074	1676773
0.4444444	1.222222	0.5627300	2.061437	1670865
0.4444444	1.242424	0.5602703	2.061801	1664834
0.4444444	1.262626	0.5578091	2.062164	1658676
0.4444444	1.282828	0.5553463	2.062528	1652383
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0.4444444	1.323232	0.5504156	2.063256	1639363
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0.4444444	1.363636	0.5454777	2.063986	1625713
0.4444444	1.383838	0.5430058	2.064351	1618628
0.4444444	1.404040	0.5405318	2.064716	1611357
0.4444444	1.424242	0.5380555	2.065082	1603887
0.4444444	1.444444	0.5355769	2.065449	1596207
0.4444444	1.464646	0.5330958	2.065815	1588302
0.4444444	1.484849	0.5306120	2.066182	1580157
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0.4444444	1.525252	0.5256359	2.066917	1563081
0.4444444	1.545454	0.5231431	2.067285	1554110
0.4444444	1.565657	0.5206469	2.067654	1544820
0.4444444	1.585859	0.5181469	2.068023	1535187
0.4444444	1.606061	0.5156430	2.068393	1525180
0.4444444	1.626263	0.5131348	2.068764	1514767
0.4444444	1.646465	0.5106218	2.069135	1503912
0.4444444	1.666667	0.5081038	2.069507	1492570
0.4444444	1.686869	0.5055802	2.069880	1480695
0.4444444	1.707071	0.5030504	2.070254	1468228
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0.4444444	1.828283	0.4876957	2.072522	1376286
0.4444444	1.848485	0.4850954	2.072906	1356894
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0.4444444	1.909091	0.4771767	2.074076	1286918
0.4444444	1.929293	0.4744823	2.074474	1258056
0.4444444	1.949495	0.4717478	2.074878	1225111
0.4444444	1.969697	0.4689598	2.075290	1186697
0.4444444	1.989899	0.4660966	2.075713	1140576
0.4444444	2.010101	0.4631201	2.076152	1082779
0.4444444	2.030303	0.4599519	2.076620	1005156
0.4444444	2.050505	0.4563850	2.077147	886163
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0.4444444	2.111111	0.4439977	2.098940	109088
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0.4444444	2.171717	0.4388939	2.099868	345863
0.4444444	2.191919	0.4368564	2.100238	389273
0.4444444	2.212121	0.4347502	2.100621	425338
0.4444444	2.232323	0.4325950	2.101013	456153
0.4444444	2.252525	0.4304034	2.101412	483025
0.4444444	2.272727	0.4281834	2.101815	506827
0.4444444	2.292929	0.4259409	2.102223	528173
0.4444444	2.313131	0.4236800	2.102634	547508
0.4444444	2.333333	0.4214039	2.103048	565166
0.4444444	2.353535	0.4191149	2.103464	581405
0.4444444	2.373737	0.4168150	2.103882	596428
0.4444444	2.393939	0.4145056	2.104302	610396
0.4444444	2.414141	0.4121879	2.104723	623441
0.4444444	2.434343	0.4098630	2.105146	635673
0.4444444	2.454546	0.4075317	2.105570	647181
0.4444444	2.474747	0.4051947	2.105995	658043
0.4444444	2.494950	0.4028526	2.106421	668322
0.4444444	2.515151	0.4005058	2.106847	678074
0.4444444	2.535353	0.3981549	2.107275	687348
0.4444444	2.555556	0.3958002	2.107703	696185
0.4444444	2.575758	0.3934420	2.108132	704621
0.4444444	2.595960	0.3910806	2.108561	712690
0.4444444	2.616162	0.3887164	2.108991	720419
0.4444444	2.636364	0.3863494	2.109421	727834
0.4444444	2.656566	0.3839799	2.109852	734957
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0.4444444	2.777778	0.3697199	2.112445	772580
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0.4444444	2.818182	0.3649531	2.113312	783511
0.4444444	2.838384	0.3625676	2.113745	788725
0.4444444	2.858586	0.3601808	2.114179	793783
0.4444444	2.878788	0.3577928	2.114613	798694
0.4444444	2.898990	0.3554037	2.115048	803464
0.4444444	2.919192	0.3530135	2.115482	808101
0.4444444	2.939394	0.3506222	2.115917	812612
0.4444444	2.959596	0.3482300	2.116352	817002
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0.4646465	1.040404	0.6040591	2.055332	1725401
0.4646465	1.060606	0.6016124	2.055693	1720262
0.4646465	1.080808	0.5991647	2.056055	1715037
0.4646465	1.101010	0.5967159	2.056417	1709723
0.4646465	1.121212	0.5942660	2.056779	1704315
0.4646465	1.141414	0.5918149	2.057141	1698809
0.4646465	1.161616	0.5893626	2.057503	1693201
0.4646465	1.181818	0.5869091	2.057865	1687486
0.4646465	1.202020	0.5844543	2.058228	1681659
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0.4646465	1.242424	0.5795404	2.058954	1669649
0.4646465	1.262626	0.5770813	2.059317	1663453
0.4646465	1.282828	0.5746207	2.059681	1657122
0.4646465	1.303030	0.5721585	2.060044	1650648
0.4646465	1.323232	0.5696945	2.060408	1644023
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0.4646465	1.404040	0.5598201	2.061867	1615843
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0.4646465	1.444444	0.5548703	2.062598	1600597
0.4646465	1.464646	0.5523918	2.062965	1592641
0.4646465	1.484849	0.5499107	2.063331	1584444
0.4646465	1.505051	0.5474269	2.063698	1575987
0.4646465	1.525252	0.5449401	2.064065	1567253
0.4646465	1.545454	0.5424502	2.064433	1558220
0.4646465	1.565657	0.5399570	2.064801	1548865
0.4646465	1.585859	0.5374601	2.065170	1539162
0.4646465	1.606061	0.5349593	2.065540	1529081
0.4646465	1.626263	0.5324543	2.065910	1518590
0.4646465	1.646465	0.5299447	2.066280	1507649
0.4646465	1.666667	0.5274301	2.066652	1496217
0.4646465	1.686869	0.5249101	2.067024	1484242
0.4646465	1.707071	0.5223840	2.067397	1471667
0.4646465	1.727273	0.5198512	2.067772	1458424
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0.4646465	1.767677	0.5147625	2.068523	1429598
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0.4646465	1.808081	0.5096358	2.069281	1396918
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0.4646465	1.848485	0.5044593	2.070045	1359118
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0.4646465	1.909091	0.4965565	2.071213	1288053
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0.4646465	1.969697	0.4883554	2.072424	1185569
0.4646465	1.989899	0.4854959	2.072847	1138016
0.4646465	2.010101	0.4825196	2.073287	1077940
0.4646465	2.030303	0.4793410	2.073756	996116
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0.4646465	2.151515	0.4606309	2.095915	308256
0.4646465	2.171717	0.4586591	2.096274	360666
0.4646465	2.191919	0.4565942	2.096649	402773
0.4646465	2.212121	0.4544667	2.097036	437919
0.4646465	2.232323	0.4522944	2.097431	468046
0.4646465	2.252525	0.4500884	2.097832	494382
0.4646465	2.272727	0.4478562	2.098238	517754
0.4646465	2.292929	0.4456031	2.098648	538745
0.4646465	2.313131	0.4433328	2.099061	557780
0.4646465	2.333333	0.4410482	2.099476	575181
0.4646465	2.353535	0.4387516	2.099894	591197
0.4646465	2.373737	0.4364448	2.100313	606023
0.4646465	2.393939	0.4341290	2.100734	619816
0.4646465	2.414141	0.4318055	2.101157	632704
0.4646465	2.434343	0.4294752	2.101580	644793
0.4646465	2.454546	0.4271389	2.102005	656171
0.4646465	2.474747	0.4247971	2.102431	666912
0.4646465	2.494950	0.4224506	2.102857	677080
0.4646465	2.515151	0.4200997	2.103285	686730
0.4646465	2.535353	0.4177448	2.103713	695907
0.4646465	2.555556	0.4153864	2.104142	704654
0.4646465	2.575758	0.4130246	2.104571	713005
0.4646465	2.595960	0.4106599	2.105001	720994
0.4646465	2.616162	0.4082924	2.105432	728647
0.4646465	2.636364	0.4059224	2.105863	735989
0.4646465	2.656566	0.4035500	2.106294	743044
0.4646465	2.676768	0.4011755	2.106726	749830
0.4646465	2.696970	0.3987989	2.107158	756365
0.4646465	2.717172	0.3964204	2.107590	762667
0.4646465	2.737374	0.3940402	2.108023	768749
0.4646465	2.757576	0.3916583	2.108456	774625

0.4646465	2.777778	0.3892748	2.108889	780308
0.4646465	2.797980	0.3868899	2.109323	785807
0.4646465	2.818182	0.3845037	2.109757	791135
0.4646465	2.838384	0.3821161	2.110191	796299
0.4646465	2.858586	0.3797273	2.110625	801310
0.4646465	2.878788	0.3773374	2.111060	806174
0.4646465	2.898990	0.3749464	2.111495	810899
0.4646465	2.919192	0.3725543	2.111930	815492
0.4646465	2.939394	0.3701613	2.112365	819960
0.4646465	2.959596	0.3677674	2.112800	824308
0.4646465	2.979798	0.3653725	2.113235	828542
0.4646465	3.000000	0.3629769	2.113671	832667
0.4848485	1.000000	0.6281937	2.051766	1740799
0.4848485	1.020202	0.6257509	2.052127	1735791
0.4848485	1.040404	0.6233070	2.052488	1730703
0.4848485	1.060606	0.6208622	2.052850	1725532
0.4848485	1.080808	0.6184164	2.053211	1720274
0.4848485	1.101010	0.6159695	2.053572	1714926
0.4848485	1.121212	0.6135215	2.053934	1709485
0.4848485	1.141414	0.6110724	2.054296	1703944
0.4848485	1.161616	0.6086221	2.054658	1698302
0.4848485	1.181818	0.6061706	2.055020	1692552
0.4848485	1.202020	0.6037178	2.055382	1686689
0.4848485	1.222222	0.6012636	2.055745	1680709
0.4848485	1.242424	0.5988081	2.056107	1674605
0.4848485	1.262626	0.5963512	2.056471	1668371
0.4848485	1.282828	0.5938928	2.056834	1662000
0.4848485	1.303030	0.5914327	2.057197	1655486
0.4848485	1.323232	0.5889711	2.057561	1648820
0.4848485	1.343434	0.5865077	2.057925	1641995
0.4848485	1.363636	0.5840425	2.058289	1635000
0.4848485	1.383838	0.5815754	2.058653	1627826
0.4848485	1.404040	0.5791063	2.059018	1620463
0.4848485	1.424242	0.5766350	2.059383	1612898
0.4848485	1.444444	0.5741616	2.059748	1605118
0.4848485	1.464646	0.5716857	2.060114	1597110
0.4848485	1.484849	0.5692073	2.060480	1588858
0.4848485	1.505051	0.5667263	2.060847	1580344
0.4848485	1.525252	0.5642424	2.061214	1571550
0.4848485	1.545454	0.5617554	2.061581	1562454
0.4848485	1.565657	0.5592651	2.061949	1553032
0.4848485	1.585859	0.5567713	2.062317	1543259
0.4848485	1.606061	0.5542738	2.062686	1533103
0.4848485	1.626263	0.5517720	2.063056	1522531
0.4848485	1.646465	0.5492659	2.063426	1511504
0.4848485	1.666667	0.5467548	2.063797	1499978
0.4848485	1.686869	0.5442384	2.064169	1487902
0.4848485	1.707071	0.5417161	2.064542	1475217
0.4848485	1.727273	0.5391872	2.064915	1461852
0.4848485	1.747475	0.5366511	2.065290	1447727

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0.4848485	1.787879	0.5315532	2.066043	1416782
0.4848485	1.808081	0.5289891	2.066422	1399702
0.4848485	1.828283	0.5264128	2.066802	1381324
0.4848485	1.848485	0.5238224	2.067185	1361424
0.4848485	1.868687	0.5212152	2.067570	1339716
0.4848485	1.888889	0.5185878	2.067958	1315822
0.4848485	1.909091	0.5159358	2.068350	1289234
0.4848485	1.929293	0.5132526	2.068746	1259245
0.4848485	1.949495	0.5105292	2.069149	1224823
0.4848485	1.969697	0.5077514	2.069559	1184383
0.4848485	1.989899	0.5048958	2.069981	1135305
0.4848485	2.010101	0.5019195	2.070421	1072761
0.4848485	2.030303	0.4987293	2.070892	986249
0.4848485	2.050505	0.4950474	2.071436	844450
0.4848485	2.070707	0.4884141	2.072416	370209
0.4848485	2.090909	0.4848485	2.090909	0
0.4848485	2.111111	0.4839097	2.091683	163701
0.4848485	2.131313	0.4822930	2.091977	258902
0.4848485	2.151515	0.4804211	2.092317	324974
0.4848485	2.171717	0.4784140	2.092682	375517
0.4848485	2.191919	0.4763232	2.093062	416389
0.4848485	2.212121	0.4741756	2.093453	450654
0.4848485	2.232323	0.4719869	2.093851	480118
0.4848485	2.252525	0.4697671	2.094254	505935
0.4848485	2.272727	0.4675231	2.094663	528887
0.4848485	2.292929	0.4652596	2.095074	549529
0.4848485	2.313131	0.4629801	2.095488	568270
0.4848485	2.333333	0.4606874	2.095905	585418
0.4848485	2.353535	0.4583834	2.096324	601212
0.4848485	2.373737	0.4560698	2.096745	615843
0.4848485	2.393939	0.4537478	2.097167	629461
0.4848485	2.414141	0.4514186	2.097591	642192
0.4848485	2.434343	0.4490830	2.098015	654138
0.4848485	2.454546	0.4467417	2.098441	665385
0.4848485	2.474747	0.4443953	2.098867	676006
0.4848485	2.494950	0.4420444	2.099295	686063
0.4848485	2.515151	0.4396894	2.099723	695608
0.4848485	2.535353	0.4373307	2.100152	704689
0.4848485	2.555556	0.4349686	2.100581	713344
0.4848485	2.575758	0.4326034	2.101011	721610
0.4848485	2.595960	0.4302354	2.101442	729516
0.4848485	2.616162	0.4278648	2.101873	737092
0.4848485	2.636364	0.4254918	2.102304	744361
0.4848485	2.656566	0.4231165	2.102736	751345
0.4848485	2.676768	0.4207392	2.103169	758063
0.4848485	2.696970	0.4183600	2.103601	764534
0.4848485	2.717172	0.4159789	2.104034	770774
0.4848485	2.737374	0.4135963	2.104467	776796
0.4848485	2.757576	0.4112120	2.104901	782615

0.4848485	2.777778	0.4088263	2.105335	788242
0.4848485	2.797980	0.4064392	2.105769	793687
0.4848485	2.818182	0.4040509	2.106203	798963
0.4848485	2.838384	0.4016613	2.106637	804076
0.4848485	2.858586	0.3992705	2.107072	809038
0.4848485	2.878788	0.3968787	2.107507	813854
0.4848485	2.898990	0.3944858	2.107942	818532
0.4848485	2.919192	0.3920920	2.108377	823080
0.4848485	2.939394	0.3896972	2.108813	827503
0.4848485	2.959596	0.3873016	2.109248	831808
0.4848485	2.979798	0.3849051	2.109684	835999
0.4848485	3.000000	0.3825079	2.110120	840083
0.5050505	1.000000	0.6474352	2.048924	1746327
0.5050505	1.020202	0.6449942	2.049285	1741286
0.5050505	1.040404	0.6425522	2.049645	1736165
0.5050505	1.060606	0.6401092	2.050006	1730960
0.5050505	1.080808	0.6376653	2.050367	1725669
0.5050505	1.101010	0.6352203	2.050728	1720287
0.5050505	1.121212	0.6327743	2.051090	1714810
0.5050505	1.141414	0.6303271	2.051451	1709235
0.5050505	1.161616	0.6278789	2.051813	1703556
0.5050505	1.181818	0.6254294	2.052175	1697770
0.5050505	1.202020	0.6229787	2.052537	1691870
0.5050505	1.222222	0.6205266	2.052899	1685852
0.5050505	1.242424	0.6180733	2.053262	1679709
0.5050505	1.262626	0.6156185	2.053624	1673436
0.5050505	1.282828	0.6131623	2.053987	1667025
0.5050505	1.303030	0.6107046	2.054350	1660470
0.5050505	1.323232	0.6082452	2.054713	1653762
0.5050505	1.343434	0.6057842	2.055077	1646893
0.5050505	1.363636	0.6033214	2.055441	1639853
0.5050505	1.383838	0.6008567	2.055805	1632633
0.5050505	1.404040	0.5983901	2.056169	1625222
0.5050505	1.424242	0.5959214	2.056534	1617608
0.5050505	1.444444	0.5934505	2.056899	1609777
0.5050505	1.464646	0.5909774	2.057264	1601715
0.5050505	1.484849	0.5885017	2.057630	1593407
0.5050505	1.505051	0.5860235	2.057996	1584835
0.5050505	1.525252	0.5835425	2.058363	1575980
0.5050505	1.545454	0.5810585	2.058730	1566819
0.5050505	1.565657	0.5785713	2.059097	1557330
0.5050505	1.585859	0.5760806	2.059465	1547484
0.5050505	1.606061	0.5735863	2.059833	1537251
0.5050505	1.626263	0.5710879	2.060202	1526597
0.5050505	1.646465	0.5685852	2.060572	1515482
0.5050505	1.666667	0.5660777	2.060943	1503861
0.5050505	1.686869	0.5635650	2.061314	1491682
0.5050505	1.707071	0.5610465	2.061686	1478883
0.5050505	1.727273	0.5585216	2.062059	1465395
0.5050505	1.747475	0.5559896	2.062433	1451132

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0.5050505	1.787879	0.5509005	2.063185	1419862
0.5050505	1.808081	0.5483411	2.063563	1402585
0.5050505	1.828283	0.5457698	2.063943	1383981
0.5050505	1.848485	0.5431845	2.064325	1363817
0.5050505	1.868687	0.5405827	2.064709	1341796
0.5050505	1.888889	0.5379609	2.065096	1317523
0.5050505	1.909091	0.5353147	2.065487	1290467
0.5050505	1.929293	0.5326375	2.065883	1259880
0.5050505	1.949495	0.5299200	2.066284	1224668
0.5050505	1.969697	0.5271477	2.066694	1183134
0.5050505	1.989899	0.5242962	2.067115	1132428
0.5050505	2.010101	0.5213200	2.067555	1067204
0.5050505	2.030303	0.5181167	2.068028	975423
0.5050505	2.050505	0.5143578	2.068583	818434
0.5050505	2.070707	0.5458715	2.064418	5000000
0.5050505	2.090909	0.5049844	2.087851	36292
0.5050505	2.111111	0.5038201	2.088063	189178
0.5050505	2.131313	0.5021190	2.088372	278495
0.5050505	2.151515	0.5001987	2.088722	341653
0.5050505	2.171717	0.4981588	2.089092	390448
0.5050505	2.191919	0.4960436	2.089477	430149
0.5050505	2.212121	0.4938768	2.089871	463570
0.5050505	2.232323	0.4916724	2.090272	492393
0.5050505	2.252525	0.4894393	2.090678	517705
0.5050505	2.272727	0.4871839	2.091088	540246
0.5050505	2.292929	0.4849104	2.091501	560546
0.5050505	2.313131	0.4826220	2.091917	578997
0.5050505	2.333333	0.4803213	2.092335	595894
0.5050505	2.353535	0.4780101	2.092756	611469
0.5050505	2.373737	0.4756899	2.093178	625905
0.5050505	2.393939	0.4733619	2.093601	639350
0.5050505	2.414141	0.4710271	2.094025	651923
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0.5050505	2.474747	0.4639893	2.095305	685342
0.5050505	2.494950	0.4616341	2.095733	695286
0.5050505	2.515151	0.4592751	2.096162	704726
0.5050505	2.535353	0.4569126	2.096592	713708
0.5050505	2.555556	0.4545469	2.097022	722271
0.5050505	2.575758	0.4521783	2.097452	730449
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0.5050505	2.616162	0.4474333	2.098315	745770
0.5050505	2.636364	0.4450573	2.098747	752963
0.5050505	2.656566	0.4426792	2.099180	759875
0.5050505	2.676768	0.4402992	2.099612	766525
0.5050505	2.696970	0.4379174	2.100045	772930
0.5050505	2.717172	0.4355339	2.100479	779106
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0.5050505	2.797980	0.4259851	2.102215	801786
0.5050505	2.818182	0.4235946	2.102649	807008
0.5050505	2.838384	0.4212030	2.103084	812069
0.5050505	2.858586	0.4188103	2.103519	816979
0.5050505	2.878788	0.4164166	2.103954	821746
0.5050505	2.898990	0.4140219	2.104390	826376
0.5050505	2.919192	0.4116263	2.104826	830877
0.5050505	2.939394	0.4092299	2.105261	835254
0.5050505	2.959596	0.4068326	2.105697	839514
0.5050505	2.979798	0.4044345	2.106133	843662
0.5050505	3.000000	0.4020356	2.106569	847703
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0.5252525	1.040404	0.6617944	2.046803	1741796
0.5252525	1.060606	0.6593534	2.047163	1736557
0.5252525	1.080808	0.6569113	2.047524	1731230
0.5252525	1.101010	0.6544683	2.047885	1725813
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0.5252525	1.161616	0.6471329	2.048969	1708972
0.5252525	1.181818	0.6446855	2.049330	1703148
0.5252525	1.202020	0.6422368	2.049692	1697210
0.5252525	1.222222	0.6397870	2.050054	1691153
0.5252525	1.242424	0.6373358	2.050416	1684971
0.5252525	1.262626	0.6348832	2.050778	1678657
0.5252525	1.282828	0.6324293	2.051141	1672205
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0.5252525	1.464646	0.6102667	2.054415	1606464
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0.5252525	1.505051	0.6053185	2.055146	1589467
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0.5252525	1.545454	0.6003594	2.055878	1571323
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0.5252525	1.606061	0.5928968	2.056981	1541533
0.5252525	1.626263	0.5904018	2.057349	1530795
0.5252525	1.646465	0.5879026	2.057719	1519590
0.5252525	1.666667	0.5853987	2.058088	1507872
0.5252525	1.686869	0.5828897	2.058459	1495587
0.5252525	1.707071	0.5803751	2.058831	1482673
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0.5252525	1.929293	0.5520221	2.063019	1260544
0.5252525	1.949495	0.5493108	2.063420	1224506
0.5252525	1.969697	0.5465443	2.063828	1181815
0.5252525	1.989899	0.5436973	2.064249	1129370
0.5252525	2.010101	0.5407212	2.064688	1061222
0.5252525	2.030303	0.5375030	2.065164	963476
0.5252525	2.050505	0.5336468	2.065734	787451
0.5252525	2.070707	0.5639602	2.061735	5000000
0.5252525	2.090909	0.5250446	2.084204	75624
0.5252525	2.111111	0.5237045	2.084448	213754
0.5252525	2.131313	0.5219290	2.084770	297861
0.5252525	2.151515	0.5199643	2.085128	358341
0.5252525	2.171717	0.5178938	2.085504	405495
0.5252525	2.191919	0.5157556	2.085893	444081
0.5252525	2.212121	0.5135704	2.086290	476690
0.5252525	2.232323	0.5113509	2.086694	504894
0.5252525	2.252525	0.5091051	2.087102	529713
0.5252525	2.272727	0.5068386	2.087514	551853
0.5252525	2.292929	0.5045554	2.087929	571817
0.5252525	2.313131	0.5022584	2.088347	589981
0.5252525	2.333333	0.4999499	2.088767	606630
0.5252525	2.353535	0.4976317	2.089188	621987
0.5252525	2.373737	0.4953051	2.089611	636230
0.5252525	2.393939	0.4929712	2.090036	649500
0.5252525	2.414141	0.4906309	2.090461	661916
0.5252525	2.434343	0.4882850	2.090888	673575
0.5252525	2.454546	0.4859341	2.091315	684559
0.5252525	2.474747	0.4835788	2.091743	694936
0.5252525	2.494950	0.4812194	2.092172	704767
0.5252525	2.515151	0.4788565	2.092602	714101
0.5252525	2.535353	0.4764902	2.093032	722983
0.5252525	2.555556	0.4741210	2.093463	731451
0.5252525	2.575758	0.4717491	2.093894	739541
0.5252525	2.595960	0.4693746	2.094326	747280
0.5252525	2.616162	0.4669978	2.094758	754696
0.5252525	2.636364	0.4646190	2.095191	761813
0.5252525	2.656566	0.4622381	2.095623	768652
0.5252525	2.676768	0.4598554	2.096057	775231
0.5252525	2.696970	0.4574711	2.096490	781568
0.5252525	2.717172	0.4550851	2.096924	787678
0.5252525	2.737374	0.4526977	2.097358	793576
0.5252525	2.757576	0.4503088	2.097792	799275

0.5252525	2.777778	0.4479187	2.098227	804785
0.5252525	2.797980	0.4455274	2.098662	810118
0.5252525	2.818182	0.4431349	2.099097	815284
0.5252525	2.838384	0.4407413	2.099532	820292
0.5252525	2.858586	0.4383467	2.099967	825150
0.5252525	2.878788	0.4359511	2.100403	829865
0.5252525	2.898990	0.4335547	2.100839	834445
0.5252525	2.919192	0.4311573	2.101275	838897
0.5252525	2.939394	0.4287592	2.101710	843227
0.5252525	2.959596	0.4263602	2.102147	847441
0.5252525	2.979798	0.4239605	2.102583	851543
0.5252525	3.000000	0.4215602	2.103019	855539
0.5454545	1.000000	0.6859092	2.043240	1757909
0.5454545	1.020202	0.6834718	2.043600	1752798
0.5454545	1.040404	0.6810336	2.043960	1747607
0.5454545	1.060606	0.6785945	2.044321	1742331
0.5454545	1.080808	0.6761544	2.044681	1736968
0.5454545	1.101010	0.6737134	2.045042	1731513
0.5454545	1.121212	0.6712713	2.045403	1725963
0.5454545	1.141414	0.6688282	2.045764	1720314
0.5454545	1.161616	0.6663840	2.046125	1714560
0.5454545	1.181818	0.6639387	2.046486	1708697
0.5454545	1.202020	0.6614922	2.046847	1702719
0.5454545	1.222222	0.6590445	2.047209	1696622
0.5454545	1.242424	0.6565955	2.047571	1690399
0.5454545	1.262626	0.6541452	2.047933	1684043
0.5454545	1.282828	0.6516935	2.048295	1677548
0.5454545	1.303030	0.6492403	2.048657	1670906
0.5454545	1.323232	0.6467857	2.049020	1664110
0.5454545	1.343434	0.6443294	2.049383	1657150
0.5454545	1.363636	0.6418715	2.049746	1650018
0.5454545	1.383838	0.6394119	2.050109	1642702
0.5454545	1.404040	0.6369503	2.050473	1635191
0.5454545	1.424242	0.6344869	2.050837	1627474
0.5454545	1.444444	0.6320214	2.051201	1619536
0.5454545	1.464646	0.6295537	2.051566	1611364
0.5454545	1.484849	0.6270836	2.051930	1602941
0.5454545	1.505051	0.6246111	2.052296	1594248
0.5454545	1.525252	0.6221360	2.052661	1585266
0.5454545	1.545454	0.6196581	2.053027	1575972
0.5454545	1.565657	0.6171771	2.053394	1566341
0.5454545	1.585859	0.6146929	2.053761	1556346
0.5454545	1.606061	0.6122052	2.054128	1545955
0.5454545	1.626263	0.6097136	2.054496	1535132
0.5454545	1.646465	0.6072180	2.054865	1523835
0.5454545	1.666667	0.6047178	2.055235	1512017
0.5454545	1.686869	0.6022126	2.055605	1499625
0.5454545	1.707071	0.5997020	2.055975	1486593
0.5454545	1.727273	0.5971853	2.056347	1472849
0.5454545	1.747475	0.5946619	2.056720	1458303

0.5454545	1.767677	0.5921308	2.057094	1442849
0.5454545	1.787879	0.5895910	2.057469	1426359
0.5454545	1.808081	0.5870413	2.057846	1408675
0.5454545	1.828283	0.5844802	2.058224	1389600
0.5454545	1.848485	0.5819056	2.058604	1368886
0.5454545	1.868687	0.5793150	2.058987	1346210
0.5454545	1.888889	0.5767050	2.059373	1321141
0.5454545	1.909091	0.5740710	2.059762	1293096
0.5454545	1.929293	0.5714065	2.060156	1261240
0.5454545	1.949495	0.5687017	2.060555	1224336
0.5454545	1.969697	0.5659413	2.060963	1180422
0.5454545	1.989899	0.5630990	2.061383	1126113
0.5454545	2.010101	0.5601230	2.061822	1054765
0.5454545	2.030303	0.5568877	2.062300	950206
0.5454545	2.050505	0.5529048	2.062889	749520
0.5454545	2.070707	0.5820490	2.059051	5000000
0.5454545	2.090909	0.5450498	2.080567	111612
0.5454545	2.111111	0.5435655	2.080837	237617
0.5454545	2.131313	0.5417236	2.081171	317076
0.5454545	2.151515	0.5397183	2.081536	375082
0.5454545	2.171717	0.5376191	2.081918	420692
0.5454545	2.191919	0.5354590	2.082311	458215
0.5454545	2.212121	0.5332564	2.082711	490044
0.5454545	2.232323	0.5310224	2.083117	517647
0.5454545	2.252525	0.5287643	2.083528	541986
0.5454545	2.272727	0.5264871	2.083942	563732
0.5454545	2.292929	0.5241945	2.084359	583365
0.5454545	2.313131	0.5218892	2.084778	601246
0.5454545	2.333333	0.5195732	2.085199	617649
0.5454545	2.353535	0.5172481	2.085622	632789
0.5454545	2.373737	0.5149152	2.086046	646838
0.5454545	2.393939	0.5125755	2.086471	659935
0.5454545	2.414141	0.5102299	2.086898	672192
0.5454545	2.434343	0.5078790	2.087325	683707
0.5454545	2.454546	0.5055235	2.087753	694557
0.5454545	2.474747	0.5031638	2.088182	704811
0.5454545	2.494950	0.5008003	2.088612	714526
0.5454545	2.515151	0.4984335	2.089042	723752
0.5454545	2.535353	0.4960636	2.089473	732532
0.5454545	2.555556	0.4936909	2.089905	740905
0.5454545	2.575758	0.4913157	2.090336	748903
0.5454545	2.595960	0.4889381	2.090769	756556
0.5454545	2.616162	0.4865584	2.091201	763890
0.5454545	2.636364	0.4841766	2.091635	770928
0.5454545	2.656566	0.4817931	2.092068	777691
0.5454545	2.676768	0.4794078	2.092502	784198
0.5454545	2.696970	0.4770209	2.092936	790465
0.5454545	2.717172	0.4746325	2.093370	796508
0.5454545	2.737374	0.4722427	2.093804	802341
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0.5454545	2.777778	0.4674594	2.094674	813426
0.5454545	2.797980	0.4650660	2.095109	818700
0.5454545	2.818182	0.4626715	2.095544	823809
0.5454545	2.838384	0.4602760	2.095980	828760
0.5454545	2.858586	0.4578795	2.096416	833564
0.5454545	2.878788	0.4554821	2.096852	838226
0.5454545	2.898990	0.4530839	2.097288	842755
0.5454545	2.919192	0.4506848	2.097724	847156
0.5454545	2.939394	0.4482850	2.098160	851437
0.5454545	2.959596	0.4458844	2.098597	855602
0.5454545	2.979798	0.4434832	2.099033	859657
0.5454545	3.000000	0.4410813	2.099470	863606
0.5656566	1.000000	0.7051414	2.040399	1763983
0.5656566	1.020202	0.7027059	2.040759	1758836
0.5656566	1.040404	0.7002697	2.041119	1753607
0.5656566	1.060606	0.6978325	2.041479	1748294
0.5656566	1.080808	0.6953944	2.041839	1742893
0.5656566	1.101010	0.6929553	2.042199	1737400
0.5656566	1.121212	0.6905153	2.042560	1731811
0.5656566	1.141414	0.6880742	2.042921	1726122
0.5656566	1.161616	0.6856321	2.043281	1720328
0.5656566	1.181818	0.6831889	2.043642	1714425
0.5656566	1.202020	0.6807446	2.044003	1708407
0.5656566	1.222222	0.6782991	2.044364	1702267
0.5656566	1.242424	0.6758523	2.044726	1696002
0.5656566	1.262626	0.6734043	2.045088	1689603
0.5656566	1.282828	0.6709549	2.045450	1683064
0.5656566	1.303030	0.6685041	2.045812	1676377
0.5656566	1.323232	0.6660518	2.046174	1669535
0.5656566	1.343434	0.6635980	2.046536	1662528
0.5656566	1.363636	0.6611426	2.046899	1655346
0.5656566	1.383838	0.6586855	2.047262	1647980
0.5656566	1.404040	0.6562266	2.047625	1640418
0.5656566	1.424242	0.6537658	2.047989	1632647
0.5656566	1.444444	0.6513030	2.048353	1624654
0.5656566	1.464646	0.6488380	2.048717	1616424
0.5656566	1.484849	0.6463709	2.049081	1607941
0.5656566	1.505051	0.6439013	2.049446	1599185
0.5656566	1.525252	0.6414292	2.049811	1590138
0.5656566	1.545454	0.6389544	2.050177	1580775
0.5656566	1.565657	0.6364766	2.050543	1571072
0.5656566	1.585859	0.6339957	2.050909	1561000
0.5656566	1.606061	0.6315113	2.051276	1550526
0.5656566	1.626263	0.6290233	2.051644	1539615
0.5656566	1.646465	0.6265313	2.052012	1528224
0.5656566	1.666667	0.6240348	2.052381	1516305
0.5656566	1.686869	0.6215336	2.052750	1503803
0.5656566	1.707071	0.6190270	2.053121	1490651
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0.5656566	1.747475	0.6139955	2.053864	1462082

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0.5656566	1.808081	0.6063894	2.054988	1411893
0.5656566	1.828283	0.6038335	2.055365	1392574
0.5656566	1.848485	0.6012645	2.055745	1371574
0.5656566	1.868687	0.5986797	2.056126	1348554
0.5656566	1.888889	0.5960759	2.056511	1323068
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0.5656566	1.929293	0.5907906	2.057292	1261969
0.5656566	1.949495	0.5880926	2.057691	1224156
0.5656566	1.969697	0.5853388	2.058097	1178947
0.5656566	1.989899	0.5825015	2.058516	1122636
0.5656566	2.010101	0.5795256	2.058956	1047768
0.5656566	2.030303	0.5762705	2.059437	935351
0.5656566	2.050505	0.5721139	2.060051	701204
0.5656566	2.070707	0.6001377	2.056368	5000000
0.5656566	2.090909	0.5650100	2.076938	145080
0.5656566	2.111111	0.5634049	2.077229	260928
0.5656566	2.131313	0.5615038	2.077575	336210
0.5656566	2.151515	0.5594609	2.077947	391925
0.5656566	2.171717	0.5573348	2.078333	436078
0.5656566	2.191919	0.5551541	2.078730	472586
0.5656566	2.212121	0.5529348	2.079133	503662
0.5656566	2.232323	0.5506869	2.079542	530681
0.5656566	2.252525	0.5484170	2.079954	554552
0.5656566	2.272727	0.5461295	2.080370	575910
0.5656566	2.292929	0.5438278	2.080789	595217
0.5656566	2.313131	0.5415143	2.081209	612818
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0.5656566	2.353535	0.5368591	2.082056	643899
0.5656566	2.373737	0.5345201	2.082481	657755
0.5656566	2.393939	0.5321748	2.082908	670676
0.5656566	2.414141	0.5298239	2.083335	682775
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0.5656566	2.454546	0.5251081	2.084192	704858
0.5656566	2.474747	0.5227442	2.084622	714987
0.5656566	2.494950	0.5203767	2.085053	724585
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0.5656566	2.575758	0.5108781	2.086780	758558
0.5656566	2.595960	0.5084974	2.087213	766122
0.5656566	2.616162	0.5061148	2.087646	773371
0.5656566	2.636364	0.5037302	2.088079	780329
0.5656566	2.656566	0.5013440	2.088513	787014
0.5656566	2.676768	0.4989561	2.088947	793446
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0.5656566	2.717172	0.4941760	2.089816	805615
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0.5656566	2.818182	0.4822043	2.091993	832598
0.5656566	2.838384	0.4798069	2.092429	837492
0.5656566	2.858586	0.4774086	2.092865	842239
0.5656566	2.878788	0.4750094	2.093301	846846
0.5656566	2.898990	0.4726095	2.093738	851321
0.5656566	2.919192	0.4702087	2.094174	855670
0.5656566	2.939394	0.4678073	2.094611	859899
0.5656566	2.959596	0.4654051	2.095048	864013
0.5656566	2.979798	0.4630024	2.095484	868019
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0.5858586	1.040404	0.7195024	2.038278	1759808
0.5858586	1.060606	0.7170672	2.038637	1754456
0.5858586	1.080808	0.7146311	2.038997	1749016
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0.5858586	1.121212	0.7097561	2.039718	1737854
0.5858586	1.141414	0.7073171	2.040078	1732124
0.5858586	1.161616	0.7048771	2.040438	1726289
0.5858586	1.181818	0.7024361	2.040799	1720344
0.5858586	1.202020	0.6999939	2.041160	1714283
0.5858586	1.222222	0.6975506	2.041520	1708101
0.5858586	1.242424	0.6951061	2.041882	1701791
0.5858586	1.262626	0.6926604	2.042243	1695348
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0.5858586	1.343434	0.6828637	2.043690	1668083
0.5858586	1.363636	0.6804109	2.044052	1660852
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0.5858586	1.424242	0.6730419	2.045141	1637993
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0.5858586	1.464646	0.6681198	2.045868	1621654
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0.5858586	1.525252	0.6607199	2.046961	1595174
0.5858586	1.545454	0.6582482	2.047327	1585741
0.5858586	1.565657	0.6557736	2.047692	1575963
0.5858586	1.585859	0.6532961	2.048058	1565812
0.5858586	1.606061	0.6508152	2.048425	1555255
0.5858586	1.626263	0.6483307	2.048792	1544254
0.5858586	1.646465	0.6458423	2.049159	1532767
0.5858586	1.666667	0.6433497	2.049527	1520744
0.5858586	1.686869	0.6408524	2.049896	1508129
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0.5858586	1.727273	0.6358418	2.050637	1480843
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0.5858586	1.787879	0.6282754	2.051754	1433349
0.5858586	1.808081	0.6257359	2.052129	1415237
0.5858586	1.828283	0.6231855	2.052506	1395667
0.5858586	1.848485	0.6206222	2.052885	1374371
0.5858586	1.868687	0.6180435	2.053266	1350999
0.5858586	1.888889	0.6154460	2.053650	1325081
0.5858586	1.909091	0.6128252	2.054037	1295970
0.5858586	1.929293	0.6101744	2.054428	1262735
0.5858586	1.949495	0.6074836	2.054826	1223967
0.5858586	1.969697	0.6047367	2.055232	1177384
0.5858586	1.989899	0.6019049	2.055650	1118916
0.5858586	2.010101	0.5989290	2.056090	1040159
0.5858586	2.030303	0.5956506	2.056574	918570
0.5858586	2.050505	0.5912380	2.057226	635722
0.5858586	2.070707	0.5858586	2.070707	0
0.5858586	2.090909	0.5849321	2.073315	176625
0.5858586	2.111111	0.5832245	2.073626	283828
0.5858586	2.131313	0.5812699	2.073981	355335
0.5858586	2.151515	0.5791923	2.074359	408919
0.5858586	2.171717	0.5770410	2.074750	451692
0.5858586	2.191919	0.5748407	2.075150	487228
0.5858586	2.212121	0.5726055	2.075557	517578
0.5858586	2.232323	0.5703443	2.075968	544028
0.5858586	2.252525	0.5680629	2.076382	567440
0.5858586	2.272727	0.5657655	2.076800	588418
0.5858586	2.292929	0.5634549	2.077220	607403
0.5858586	2.313131	0.5611335	2.077642	624724
0.5858586	2.333333	0.5588030	2.078066	640638
0.5858586	2.353535	0.5564647	2.078491	655346
0.5858586	2.373737	0.5541197	2.078918	669007
0.5858586	2.393939	0.5517689	2.079345	681752
0.5858586	2.414141	0.5494129	2.079773	693690
0.5858586	2.434343	0.5470524	2.080203	704911
0.5858586	2.454546	0.5446879	2.080633	715489
0.5858586	2.474747	0.5423198	2.081063	725490
0.5858586	2.494950	0.5399484	2.081494	734968
0.5858586	2.515151	0.5375741	2.081926	743972
0.5858586	2.535353	0.5351971	2.082358	752543
0.5858586	2.555556	0.5328177	2.082791	760718
0.5858586	2.575758	0.5304361	2.083224	768527
0.5858586	2.595960	0.5280524	2.083657	776001
0.5858586	2.616162	0.5256669	2.084091	783163
0.5858586	2.636364	0.5232796	2.084525	790036
0.5858586	2.656566	0.5208907	2.084959	796642
0.5858586	2.676768	0.5185003	2.085394	802996
0.5858586	2.696970	0.5161085	2.085829	809117
0.5858586	2.717172	0.5137154	2.086264	815019
0.5858586	2.737374	0.5113212	2.086699	820715
0.5858586	2.757576	0.5089257	2.087135	826217

0.5858586	2.777778	0.5065293	2.087570	831538
0.5858586	2.797980	0.5041318	2.088006	836687
0.5858586	2.818182	0.5017334	2.088442	841674
0.5858586	2.838384	0.4993341	2.088879	846507
0.5858586	2.858586	0.4969339	2.089315	851194
0.5858586	2.878788	0.4945330	2.089752	855744
0.5858586	2.898990	0.4921313	2.090188	860163
0.5858586	2.919192	0.4897290	2.090625	864457
0.5858586	2.939394	0.4873259	2.091062	868632
0.5858586	2.959596	0.4849222	2.091499	872694
0.5858586	2.979798	0.4825179	2.091936	876648
0.5858586	3.000000	0.4801130	2.092373	880499
0.6060606	1.000000	0.7435955	2.034718	1776759
0.6060606	1.020202	0.7411640	2.035078	1771532
0.6060606	1.040404	0.7387316	2.035437	1766224
0.6060606	1.060606	0.7362984	2.035796	1760831
0.6060606	1.080808	0.7338643	2.036156	1755349
0.6060606	1.101010	0.7314294	2.036516	1749775
0.6060606	1.121212	0.7289935	2.036876	1744104
0.6060606	1.141414	0.7265566	2.037236	1738332
0.6060606	1.161616	0.7241188	2.037596	1732454
0.6060606	1.181818	0.7216799	2.037956	1726465
0.6060606	1.202020	0.7192400	2.038316	1720360
0.6060606	1.222222	0.7167989	2.038677	1714133
0.6060606	1.242424	0.7143567	2.039038	1707778
0.6060606	1.262626	0.7119133	2.039399	1701288
0.6060606	1.282828	0.7094686	2.039760	1694656
0.6060606	1.303030	0.7070226	2.040121	1687875
0.6060606	1.323232	0.7045753	2.040483	1680935
0.6060606	1.343434	0.7021265	2.040845	1673829
0.6060606	1.363636	0.6996761	2.041206	1666545
0.6060606	1.383838	0.6972242	2.041569	1659074
0.6060606	1.404040	0.6947706	2.041931	1651404
0.6060606	1.424242	0.6923152	2.042294	1643522
0.6060606	1.444444	0.6898580	2.042657	1635413
0.6060606	1.464646	0.6873988	2.043020	1627063
0.6060606	1.484849	0.6849374	2.043384	1618455
0.6060606	1.505051	0.6824739	2.043748	1609569
0.6060606	1.525252	0.6800079	2.044112	1600385
0.6060606	1.545454	0.6775394	2.044477	1590879
0.6060606	1.565657	0.6750682	2.044842	1581025
0.6060606	1.585859	0.6725940	2.045207	1570793
0.6060606	1.606061	0.6701166	2.045573	1560150
0.6060606	1.626263	0.6676357	2.045940	1549058
0.6060606	1.646465	0.6651511	2.046307	1537472
0.6060606	1.666667	0.6626624	2.046674	1525343
0.6060606	1.686869	0.6601691	2.047043	1512613
0.6060606	1.707071	0.6576709	2.047412	1499213
0.6060606	1.727273	0.6551671	2.047782	1485062
0.6060606	1.747475	0.6526571	2.048153	1470066

0.6060606	1.767677	0.6501400	2.048524	1454108
0.6060606	1.787879	0.6476150	2.048897	1437049
0.6060606	1.808081	0.6450808	2.049272	1418714
0.6060606	1.828283	0.6425360	2.049648	1398887
0.6060606	1.848485	0.6399786	2.050025	1377287
0.6060606	1.868687	0.6374061	2.050406	1353550
0.6060606	1.888889	0.6348152	2.050788	1327185
0.6060606	1.909091	0.6322014	2.051174	1297511
0.6060606	1.929293	0.6295579	2.051565	1263540
0.6060606	1.949495	0.6268747	2.051961	1223767
0.6060606	1.969697	0.6241351	2.052366	1175723
0.6060606	1.989899	0.6213092	2.052783	1114927
0.6060606	2.010101	0.6183333	2.053223	1031846
0.6060606	2.030303	0.6150272	2.053711	899403
0.6060606	2.050505	0.6101851	2.054427	536416
0.6060606	2.070707	0.6060355	2.069478	18842
0.6060606	2.090909	0.6048214	2.069699	206698
0.6060606	2.111111	0.6030256	2.070026	306445
0.6060606	2.131313	0.6010227	2.070390	374521
0.6060606	2.151515	0.5989129	2.070774	426115
0.6060606	2.171717	0.5967378	2.071169	467580
0.6060606	2.191919	0.5945189	2.071572	502183
0.6060606	2.212121	0.5922685	2.071982	531829
0.6060606	2.232323	0.5899945	2.072395	557725
0.6060606	2.252525	0.5877021	2.072812	580687
0.6060606	2.272727	0.5853950	2.073231	601290
0.6060606	2.292929	0.5830759	2.073653	619954
0.6060606	2.313131	0.5807469	2.074076	636998
0.6060606	2.333333	0.5784094	2.074501	652669
0.6060606	2.353535	0.5760648	2.074928	667159
0.6060606	2.373737	0.5737139	2.075355	680624
0.6060606	2.393939	0.5713577	2.075784	693192
0.6060606	2.414141	0.5689968	2.076213	704968
0.6060606	2.434343	0.5666316	2.076643	716038
0.6060606	2.454546	0.5642628	2.077074	726477
0.6060606	2.474747	0.5618905	2.077505	736348
0.6060606	2.494950	0.5595153	2.077937	745704
0.6060606	2.515151	0.5571374	2.078369	754593
0.6060606	2.535353	0.5547570	2.078802	763056
0.6060606	2.555556	0.5523743	2.079235	771127
0.6060606	2.575758	0.5499895	2.079669	778838
0.6060606	2.595960	0.5476029	2.080103	786218
0.6060606	2.616162	0.5452145	2.080537	793290
0.6060606	2.636364	0.5428246	2.080971	800077
0.6060606	2.656566	0.5404331	2.081406	806599
0.6060606	2.676768	0.5380402	2.081841	812873
0.6060606	2.696970	0.5356461	2.082276	818917
0.6060606	2.717172	0.5332507	2.082712	824743
0.6060606	2.737374	0.5308542	2.083148	830367
0.6060606	2.757576	0.5284567	2.083584	835799

0.6060606	2.777778	0.5260582	2.084020	841051
0.6060606	2.797980	0.5236587	2.084456	846134
0.6060606	2.818182	0.5212584	2.084892	851056
0.6060606	2.838384	0.5188573	2.085329	855826
0.6060606	2.858586	0.5164554	2.085766	860452
0.6060606	2.878788	0.5140527	2.086203	864941
0.6060606	2.898990	0.5116494	2.086639	869301
0.6060606	2.919192	0.5092454	2.087077	873538
0.6060606	2.939394	0.5068407	2.087514	877656
0.6060606	2.959596	0.5044355	2.087951	881663
0.6060606	2.979798	0.5020297	2.088389	885563
0.6060606	3.000000	0.4996234	2.088826	889361
0.6262626	1.000000	0.7628171	2.031879	1783487
0.6262626	1.020202	0.7603876	2.032238	1778219
0.6262626	1.040404	0.7579572	2.032597	1772868
0.6262626	1.060606	0.7555260	2.032956	1767432
0.6262626	1.080808	0.7530940	2.033315	1761907
0.6262626	1.101010	0.7506612	2.033675	1756290
0.6262626	1.121212	0.7482274	2.034034	1750575
0.6262626	1.141414	0.7457927	2.034394	1744758
0.6262626	1.161616	0.7433570	2.034754	1738836
0.6262626	1.181818	0.7409204	2.035114	1732801
0.6262626	1.202020	0.7384827	2.035474	1726650
0.6262626	1.222222	0.7360439	2.035834	1720377
0.6262626	1.242424	0.7336040	2.036195	1713975
0.6262626	1.262626	0.7311630	2.036555	1707437
0.6262626	1.282828	0.7287207	2.036916	1700756
0.6262626	1.303030	0.7262772	2.037277	1693924
0.6262626	1.323232	0.7238323	2.037638	1686934
0.6262626	1.343434	0.7213860	2.037999	1679775
0.6262626	1.363636	0.7189383	2.038361	1672438
0.6262626	1.383838	0.7164890	2.038723	1664912
0.6262626	1.404040	0.7140381	2.039085	1657185
0.6262626	1.424242	0.7115855	2.039447	1649245
0.6262626	1.444444	0.7091311	2.039810	1641076
0.6262626	1.464646	0.7066748	2.040173	1632663
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0.6262626	1.505051	0.7017560	2.040899	1615036
0.6262626	1.525252	0.6992932	2.041263	1605781
0.6262626	1.545454	0.6968279	2.041627	1596201
0.6262626	1.565657	0.6943600	2.041992	1586268
0.6262626	1.585859	0.6918892	2.042357	1575953
0.6262626	1.606061	0.6894154	2.042722	1565222
0.6262626	1.626263	0.6869382	2.043088	1554036
0.6262626	1.646465	0.6844574	2.043455	1542349
0.6262626	1.666667	0.6819727	2.043822	1530112
0.6262626	1.686869	0.6794835	2.044189	1517263
0.6262626	1.707071	0.6769895	2.044558	1503734
0.6262626	1.727273	0.6744902	2.044927	1489442
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0.6262626	1.767677	0.6694727	2.045668	1458155
0.6262626	1.787879	0.6669528	2.046041	1440896
0.6262626	1.808081	0.6644241	2.046414	1422333
0.6262626	1.828283	0.6618849	2.046789	1402241
0.6262626	1.848485	0.6593336	2.047166	1380328
0.6262626	1.868687	0.6567676	2.047545	1356215
0.6262626	1.888889	0.6541835	2.047927	1329387
0.6262626	1.909091	0.6515770	2.048312	1299127
0.6262626	1.929293	0.6489411	2.048701	1264387
0.6262626	1.949495	0.6462658	2.049097	1223556
0.6262626	1.969697	0.6435341	2.049500	1173956
0.6262626	1.989899	0.6407145	2.049917	1110635
0.6262626	2.010101	0.6377387	2.050356	1022723
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0.6262626	2.070707	0.6261033	2.065830	69935
0.6262626	2.090909	0.6246816	2.066088	235655
0.6262626	2.111111	0.6228092	2.066429	328898
0.6262626	2.131313	0.6207623	2.066801	393837
0.6262626	2.151515	0.6186226	2.067190	443569
0.6262626	2.171717	0.6164252	2.067589	483790
0.6262626	2.191919	0.6141887	2.067996	517495
0.6262626	2.212121	0.6119237	2.068408	546458
0.6262626	2.232323	0.6096374	2.068824	571813
0.6262626	2.252525	0.6073344	2.069242	594331
0.6262626	2.272727	0.6050180	2.069663	614562
0.6262626	2.292929	0.6026906	2.070087	632909
0.6262626	2.313131	0.6003541	2.070511	649677
0.6262626	2.333333	0.5980099	2.070938	665103
0.6262626	2.353535	0.5956591	2.071365	679374
0.6262626	2.373737	0.5933026	2.071794	692643
0.6262626	2.393939	0.5909411	2.072223	705031
0.6262626	2.414141	0.5885753	2.072653	716641
0.6262626	2.434343	0.5862056	2.073084	727558
0.6262626	2.454546	0.5838325	2.073515	737855
0.6262626	2.474747	0.5814563	2.073947	747593
0.6262626	2.494950	0.5790773	2.074380	756824
0.6262626	2.515151	0.5766958	2.074813	765595
0.6262626	2.535353	0.5743120	2.075246	773945
0.6262626	2.555556	0.5719261	2.075680	781910
0.6262626	2.575758	0.5695383	2.076114	789519
0.6262626	2.595960	0.5671488	2.076549	796802
0.6262626	2.616162	0.5647577	2.076983	803780
0.6262626	2.636364	0.5623650	2.077418	810478
0.6262626	2.656566	0.5599710	2.077854	816913
0.6262626	2.676768	0.5575758	2.078289	823104
0.6262626	2.696970	0.5551793	2.078725	829067
0.6262626	2.717172	0.5527817	2.079161	834816
0.6262626	2.737374	0.5503830	2.079597	840363
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0.6262626	2.797980	0.5431815	2.080906	855915
0.6262626	2.818182	0.5407794	2.081343	860769
0.6262626	2.838384	0.5383764	2.081780	865473
0.6262626	2.858586	0.5359727	2.082217	870035
0.6262626	2.878788	0.5335684	2.082654	874461
0.6262626	2.898990	0.5311634	2.083092	878759
0.6262626	2.919192	0.5287578	2.083529	882935
0.6262626	2.939394	0.5263517	2.083966	886995
0.6262626	2.959596	0.5239450	2.084404	890943
0.6262626	2.979798	0.5215377	2.084842	894786
0.6262626	3.000000	0.5191300	2.085279	898529
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0.6464646	1.020202	0.7796073	2.029399	1785151
0.6464646	1.040404	0.7771790	2.029757	1779756
0.6464646	1.060606	0.7747499	2.030116	1774275
0.6464646	1.080808	0.7723199	2.030475	1768705
0.6464646	1.101010	0.7698892	2.030834	1763042
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0.6464646	1.141414	0.7650251	2.031553	1751418
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0.6464646	1.181818	0.7601572	2.032272	1739367
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0.6464646	1.222222	0.7552854	2.032992	1726847
0.6464646	1.242424	0.7528478	2.033352	1720395
0.6464646	1.262626	0.7504092	2.033712	1713807
0.6464646	1.282828	0.7479693	2.034072	1707075
0.6464646	1.303030	0.7455283	2.034433	1700192
0.6464646	1.323232	0.7430859	2.034794	1693149
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0.6464646	1.363636	0.7381972	2.035516	1678543
0.6464646	1.383838	0.7357506	2.035877	1670960
0.6464646	1.404040	0.7333025	2.036239	1663175
0.6464646	1.424242	0.7308527	2.036601	1655174
0.6464646	1.444444	0.7284012	2.036963	1646943
0.6464646	1.464646	0.7259478	2.037326	1638466
0.6464646	1.484849	0.7234925	2.037688	1629725
0.6464646	1.505051	0.7210351	2.038051	1620702
0.6464646	1.525252	0.7185755	2.038415	1611374
0.6464646	1.545454	0.7161135	2.038778	1601717
0.6464646	1.565657	0.7136490	2.039142	1591704
0.6464646	1.585859	0.7111818	2.039507	1581304
0.6464646	1.606061	0.7087115	2.039872	1570482
0.6464646	1.626263	0.7062381	2.040237	1559199
0.6464646	1.646465	0.7037612	2.040603	1547410
0.6464646	1.666667	0.7012804	2.040970	1535061
0.6464646	1.686869	0.6987955	2.041337	1522092
0.6464646	1.707071	0.6963059	2.041704	1508431
0.6464646	1.727273	0.6938111	2.042073	1493993
0.6464646	1.747475	0.6913105	2.042442	1478678

0.6464646	1.767677	0.6888034	2.042813	1462364
0.6464646	1.787879	0.6862888	2.043184	1444901
0.6464646	1.808081	0.6837655	2.043557	1426103
0.6464646	1.828283	0.6812323	2.043931	1405738
0.6464646	1.848485	0.6786872	2.044307	1383503
0.6464646	1.868687	0.6761278	2.044685	1359001
0.6464646	1.888889	0.6735508	2.045066	1331694
0.6464646	1.909091	0.6709518	2.045450	1300824
0.6464646	1.929293	0.6683240	2.045838	1265280
0.6464646	1.949495	0.6656571	2.046232	1223333
0.6464646	1.969697	0.6629336	2.046634	1172072
0.6464646	1.989899	0.6601210	2.047050	1106006
0.6464646	2.010101	0.6571451	2.047490	1012654
0.6464646	2.030303	0.6537635	2.047989	851085
0.6464646	2.050505	0.6509989	2.048852	788013
0.6464646	2.070707	0.6461003	2.062194	115432
0.6464646	2.090909	0.6445159	2.062482	263787
0.6464646	2.111111	0.6425762	2.062835	351301
0.6464646	2.131313	0.6404893	2.063214	413359
0.6464646	2.151515	0.6383217	2.063608	461340
0.6464646	2.171717	0.6361033	2.064012	500374
0.6464646	2.191919	0.6338499	2.064421	533214
0.6464646	2.212121	0.6315710	2.064836	561512
0.6464646	2.232323	0.6292729	2.065253	586336
0.6464646	2.252525	0.6269596	2.065674	608418
0.6464646	2.272727	0.6246342	2.066097	628281
0.6464646	2.292929	0.6222988	2.066521	646310
0.6464646	2.313131	0.6199550	2.066948	662801
0.6464646	2.333333	0.6176043	2.067375	677981
0.6464646	2.353535	0.6152474	2.067804	692032
0.6464646	2.373737	0.6128854	2.068233	705101
0.6464646	2.393939	0.6105189	2.068663	717306
0.6464646	2.414141	0.6081483	2.069094	728748
0.6464646	2.434343	0.6057742	2.069526	739509
0.6464646	2.454546	0.6033969	2.069958	749660
0.6464646	2.474747	0.6010168	2.070391	759261
0.6464646	2.494950	0.5986341	2.070824	768363
0.6464646	2.515151	0.5962491	2.071258	777012
0.6464646	2.535353	0.5938620	2.071692	785246
0.6464646	2.555556	0.5914730	2.072126	793100
0.6464646	2.575758	0.5890823	2.072561	800604
0.6464646	2.595960	0.5866899	2.072996	807785
0.6464646	2.616162	0.5842961	2.073431	814667
0.6464646	2.636364	0.5819009	2.073866	821271
0.6464646	2.656566	0.5795044	2.074302	827616
0.6464646	2.676768	0.5771067	2.074738	833720
0.6464646	2.696970	0.5747080	2.075174	839598
0.6464646	2.717172	0.5723082	2.075611	845265
0.6464646	2.737374	0.5699074	2.076047	850733
0.6464646	2.757576	0.5675058	2.076484	856015

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0.6464646	2.818182	0.5602960	2.077795	870842
0.6464646	2.838384	0.5578913	2.078232	875476
0.6464646	2.858586	0.5554860	2.078669	879970
0.6464646	2.878788	0.5530800	2.079107	884330
0.6464646	2.898990	0.5506734	2.079544	888562
0.6464646	2.919192	0.5482662	2.079982	892675
0.6464646	2.939394	0.5458586	2.080420	896672
0.6464646	2.959596	0.5434504	2.080858	900559
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0.6666667	1.161616	0.7818224	2.029071	1752310
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0.6666667	1.202020	0.7769572	2.029790	1739930
0.6666667	1.222222	0.7745231	2.030150	1733557
0.6666667	1.242424	0.7720879	2.030509	1727054
0.6666667	1.262626	0.7696517	2.030869	1720414
0.6666667	1.282828	0.7672144	2.031229	1713629
0.6666667	1.303030	0.7647758	2.031589	1706692
0.6666667	1.323232	0.7623361	2.031950	1699594
0.6666667	1.343434	0.7598950	2.032311	1692325
0.6666667	1.363636	0.7574526	2.032671	1684875
0.6666667	1.383838	0.7550088	2.033032	1677233
0.6666667	1.404040	0.7525634	2.033394	1669387
0.6666667	1.424242	0.7501165	2.033755	1661324
0.6666667	1.444444	0.7476679	2.034117	1653028
0.6666667	1.464646	0.7452176	2.034479	1644484
0.6666667	1.484849	0.7427654	2.034841	1635675
0.6666667	1.505051	0.7403111	2.035204	1626579
0.6666667	1.525252	0.7378548	2.035566	1617176
0.6666667	1.545454	0.7353962	2.035930	1607440
0.6666667	1.565657	0.7329351	2.036293	1597344
0.6666667	1.585859	0.7304714	2.036657	1586857
0.6666667	1.606061	0.7280048	2.037022	1575942
0.6666667	1.626263	0.7255352	2.037386	1564561
0.6666667	1.646465	0.7230622	2.037752	1552665
0.6666667	1.666667	0.7205856	2.038118	1540202
0.6666667	1.686869	0.7181049	2.038484	1527109
0.6666667	1.707071	0.7156197	2.038851	1513313
0.6666667	1.727273	0.7131296	2.039219	1498726
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0.6666667	1.808081	0.7031051	2.040700	1430035
0.6666667	1.828283	0.7005779	2.041073	1409389
0.6666667	1.848485	0.6980392	2.041448	1386822
0.6666667	1.868687	0.6954867	2.041825	1361919
0.6666667	1.888889	0.6929171	2.042205	1334114
0.6666667	1.909091	0.6903259	2.042588	1302609
0.6666667	1.929293	0.6877065	2.042975	1266222
0.6666667	1.949495	0.6850484	2.043368	1223095
0.6666667	1.969697	0.6823338	2.043769	1170059
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0.6666667	2.010101	0.6765527	2.044623	1001473
0.6666667	2.030303	0.6731178	2.045130	819624
0.6666667	2.050505	0.6717926	2.045780	1014663
0.6666667	2.070707	0.6660423	2.058568	157021
0.6666667	2.090909	0.6643264	2.058880	291344
0.6666667	2.111111	0.6623273	2.059244	373766
0.6666667	2.131313	0.6602037	2.059630	433165
0.6666667	2.151515	0.6580101	2.060029	479496
0.6666667	2.171717	0.6557718	2.060435	517394
0.6666667	2.191919	0.6535024	2.060848	549396
0.6666667	2.212121	0.6512103	2.061265	577045
0.6666667	2.232323	0.6489008	2.061685	601348
0.6666667	2.252525	0.6465776	2.062107	622998
0.6666667	2.272727	0.6442435	2.062531	642494
0.6666667	2.292929	0.6419003	2.062958	660206
0.6666667	2.313131	0.6395495	2.063385	676418
0.6666667	2.333333	0.6371924	2.063814	691350
0.6666667	2.353535	0.6348297	2.064243	705178
0.6666667	2.373737	0.6324623	2.064674	718043
0.6666667	2.393939	0.6300908	2.065105	730062
0.6666667	2.414141	0.6277156	2.065537	741331
0.6666667	2.434343	0.6253371	2.065969	751932
0.6666667	2.454546	0.6229558	2.066402	761933
0.6666667	2.474747	0.6205719	2.066835	771392
0.6666667	2.494950	0.6181856	2.067269	780361
0.6666667	2.515151	0.6157972	2.067703	788884
0.6666667	2.535353	0.6134069	2.068138	796997
0.6666667	2.555556	0.6110149	2.068573	804737
0.6666667	2.575758	0.6086212	2.069008	812131
0.6666667	2.595960	0.6062261	2.069444	819206
0.6666667	2.616162	0.6038296	2.069879	825986
0.6666667	2.636364	0.6014318	2.070315	832492
0.6666667	2.656566	0.5990329	2.070752	838743
0.6666667	2.676768	0.5966330	2.071188	844755
0.6666667	2.696970	0.5942320	2.071624	850544
0.6666667	2.717172	0.5918300	2.072061	856125
0.6666667	2.737374	0.5894272	2.072498	861510
0.6666667	2.757576	0.5870236	2.072935	866710

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0.6666667	2.797980	0.5822141	2.073810	876598
0.6666667	2.818182	0.5798083	2.074247	881305
0.6666667	2.838384	0.5774019	2.074685	885866
0.6666667	2.858586	0.5749948	2.075122	890287
0.6666667	2.878788	0.5725872	2.075560	894577
0.6666667	2.898990	0.5701791	2.075998	898741
0.6666667	2.919192	0.5677704	2.076436	902785
0.6666667	2.939394	0.5653612	2.076874	906716
0.6666667	2.959596	0.5629516	2.077312	910539
0.6666667	2.979798	0.5605416	2.077750	914258
0.6666667	3.000000	0.5581311	2.078188	917879
0.6868687	1.000000	0.8204576	2.023364	1805233
0.6868687	1.020202	0.8180342	2.023722	1799824
0.6868687	1.040404	0.8156101	2.024080	1794332
0.6868687	1.060606	0.8131853	2.024438	1788755
0.6868687	1.080808	0.8107597	2.024796	1783087
0.6868687	1.101010	0.8083333	2.025155	1777326
0.6868687	1.121212	0.8059061	2.025514	1771467
0.6868687	1.141414	0.8034780	2.025872	1765505
0.6868687	1.161616	0.8010491	2.026231	1759435
0.6868687	1.181818	0.7986193	2.026590	1753252
0.6868687	1.202020	0.7961886	2.026949	1746951
0.6868687	1.222222	0.7937569	2.027308	1740526
0.6868687	1.242424	0.7913242	2.027668	1733969
0.6868687	1.262626	0.7888904	2.028027	1727274
0.6868687	1.282828	0.7864556	2.028387	1720434
0.6868687	1.303030	0.7840197	2.028747	1713441
0.6868687	1.323232	0.7815825	2.029107	1706285
0.6868687	1.343434	0.7791441	2.029467	1698958
0.6868687	1.363636	0.7767044	2.029827	1691448
0.6868687	1.383838	0.7742634	2.030188	1683745
0.6868687	1.404040	0.7718209	2.030549	1675836
0.6868687	1.424242	0.7693769	2.030910	1667708
0.6868687	1.444444	0.7669313	2.031271	1659346
0.6868687	1.464646	0.7644840	2.031633	1650733
0.6868687	1.484849	0.7620349	2.031995	1641852
0.6868687	1.505051	0.7595839	2.032357	1632683
0.6868687	1.525252	0.7571308	2.032719	1623202
0.6868687	1.545454	0.7546756	2.033082	1613385
0.6868687	1.565657	0.7522180	2.033445	1603204
0.6868687	1.585859	0.7497579	2.033808	1592626
0.6868687	1.606061	0.7472951	2.034172	1581616
0.6868687	1.626263	0.7448294	2.034536	1570133
0.6868687	1.646465	0.7423604	2.034901	1558128
0.6868687	1.666667	0.7398880	2.035266	1545548
0.6868687	1.686869	0.7374116	2.035632	1532328
0.6868687	1.707071	0.7349310	2.035998	1518393
0.6868687	1.727273	0.7324456	2.036366	1503654
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0.6868687	1.828283	0.7199217	2.038216	1413204
0.6868687	1.848485	0.7173896	2.038590	1390294
0.6868687	1.868687	0.7148441	2.038966	1364976
0.6868687	1.888889	0.7122821	2.039344	1336655
0.6868687	1.909091	0.7096991	2.039726	1304489
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0.6868687	1.949495	0.7044398	2.040503	1222844
0.6868687	1.969697	0.7017348	2.040902	1167903
0.6868687	1.989899	0.6989379	2.041316	1095557
0.6868687	2.010101	0.6959616	2.041755	988968
0.6868687	2.030303	0.6924559	2.042273	780573
0.6868687	2.050505	0.6916072	2.042853	1082508
0.6868687	2.070707	0.6859394	2.054950	195828
0.6868687	2.090909	0.6841151	2.055282	318546
0.6868687	2.111111	0.6820630	2.055655	396408
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0.6868687	2.151515	0.6776879	2.056451	498110
0.6868687	2.171717	0.6754308	2.056861	534917
0.6868687	2.191919	0.6731462	2.057276	566107
0.6868687	2.212121	0.6708413	2.057696	593121
0.6868687	2.232323	0.6685209	2.058117	616909
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0.6868687	2.272727	0.6638457	2.058968	657259
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0.6868687	2.313131	0.6591374	2.059824	690584
0.6868687	2.333333	0.6567740	2.060253	705265
0.6868687	2.353535	0.6544057	2.060684	718865
0.6868687	2.373737	0.6520331	2.061115	731522
0.6868687	2.393939	0.6496567	2.061547	743350
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0.6868687	2.474747	0.6401213	2.063281	784035
0.6868687	2.494950	0.6377316	2.063715	792865
0.6868687	2.515151	0.6353399	2.064150	801256
0.6868687	2.535353	0.6329464	2.064586	809244
0.6868687	2.555556	0.6305514	2.065021	816863
0.6868687	2.575758	0.6281549	2.065457	824141
0.6868687	2.595960	0.6257571	2.065893	831106
0.6868687	2.616162	0.6233580	2.066329	837779
0.6868687	2.636364	0.6209578	2.066765	844182
0.6868687	2.656566	0.6185565	2.067202	850333
0.6868687	2.676768	0.6161543	2.067639	856249
0.6868687	2.696970	0.6137511	2.068076	861944
0.6868687	2.717172	0.6113471	2.068513	867434
0.6868687	2.737374	0.6089422	2.068950	872730
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0.6868687	2.797980	0.6017235	2.070262	887567
0.6868687	2.818182	0.5993159	2.070700	892194
0.6868687	2.838384	0.5969078	2.071138	896676
0.6868687	2.858586	0.5944992	2.071576	901021
0.6868687	2.878788	0.5920900	2.072014	905236
0.6868687	2.898990	0.5896803	2.072452	909326
0.6868687	2.919192	0.5872701	2.072890	913299
0.6868687	2.939394	0.5848596	2.073329	917160
0.6868687	2.959596	0.5824486	2.073767	920914
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0.6868687	3.000000	0.5776254	2.074644	928119
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0.7070707	1.020202	0.8372410	2.020885	1807605
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0.7070707	1.060606	0.8323964	2.021600	1796431
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0.7070707	1.101010	0.8275488	2.022316	1784897
0.7070707	1.121212	0.8251239	2.022674	1778984
0.7070707	1.141414	0.8226982	2.023033	1772969
0.7070707	1.161616	0.8202716	2.023391	1766845
0.7070707	1.181818	0.8178441	2.023750	1760608
0.7070707	1.202020	0.8154158	2.024109	1754252
0.7070707	1.222222	0.8129866	2.024468	1747770
0.7070707	1.242424	0.8105563	2.024827	1741158
0.7070707	1.262626	0.8081251	2.025186	1734406
0.7070707	1.282828	0.8056929	2.025545	1727508
0.7070707	1.303030	0.8032595	2.025904	1720456
0.7070707	1.323232	0.8008250	2.026264	1713240
0.7070707	1.343434	0.7983893	2.026624	1705852
0.7070707	1.363636	0.7959524	2.026984	1698280
0.7070707	1.383838	0.7935142	2.027344	1690513
0.7070707	1.404040	0.7910746	2.027705	1682539
0.7070707	1.424242	0.7886335	2.028065	1674344
0.7070707	1.444444	0.7861910	2.028426	1665913
0.7070707	1.464646	0.7837468	2.028787	1657229
0.7070707	1.484849	0.7813008	2.029148	1648274
0.7070707	1.505051	0.7788531	2.029510	1639027
0.7070707	1.525252	0.7764034	2.029872	1629466
0.7070707	1.545454	0.7739516	2.030234	1619566
0.7070707	1.565657	0.7714976	2.030597	1609296
0.7070707	1.585859	0.7690412	2.030959	1598626
0.7070707	1.606061	0.7665823	2.031323	1587518
0.7070707	1.626263	0.7641205	2.031686	1575930
0.7070707	1.646465	0.7616556	2.032050	1563814
0.7070707	1.666667	0.7591874	2.032415	1551113
0.7070707	1.686869	0.7567155	2.032780	1537762
0.7070707	1.707071	0.7542395	2.033146	1523685
0.7070707	1.727273	0.7517589	2.033513	1508789
0.7070707	1.747475	0.7492733	2.033880	1492965

0.7070707	1.767677	0.7467818	2.034248	1476080
0.7070707	1.787879	0.7442838	2.034617	1457969
0.7070707	1.808081	0.7417781	2.034987	1438428
0.7070707	1.828283	0.7392635	2.035358	1417196
0.7070707	1.848485	0.7367382	2.035731	1393932
0.7070707	1.868687	0.7342001	2.036106	1368184
0.7070707	1.888889	0.7316460	2.036484	1339328
0.7070707	1.909091	0.7290715	2.036864	1306471
0.7070707	1.929293	0.7264701	2.037248	1268272
0.7070707	1.949495	0.7238313	2.037638	1222576
0.7070707	1.969697	0.7211365	2.038036	1165588
0.7070707	1.989899	0.7183487	2.038448	1089626
0.7070707	2.010101	0.7153720	2.038888	974865
0.7070707	2.030303	0.7117668	2.039420	729901
0.7070707	2.050505	0.7070707	2.050505	0
0.7070707	2.070707	0.7057986	2.051340	232659
0.7070707	2.090909	0.7038833	2.051688	345598
0.7070707	2.111111	0.7017838	2.052070	419345
0.7070707	2.131313	0.6995955	2.052468	473981
0.7070707	2.151515	0.6973550	2.052875	517266
0.7070707	2.171717	0.6950801	2.053288	553024
0.7070707	2.191919	0.6927810	2.053707	583422
0.7070707	2.212121	0.6904639	2.054128	609812
0.7070707	2.232323	0.6881330	2.054552	633090
0.7070707	2.252525	0.6857912	2.054977	653882
0.7070707	2.272727	0.6834405	2.055405	672644
0.7070707	2.292929	0.6810825	2.055833	689717
0.7070707	2.313131	0.6787183	2.056263	705363
0.7070707	2.333333	0.6763490	2.056694	719787
0.7070707	2.353535	0.6739751	2.057126	733154
0.7070707	2.373737	0.6715974	2.057558	745598
0.7070707	2.393939	0.6692163	2.057991	757228
0.7070707	2.414141	0.6668322	2.058425	768136
0.7070707	2.434343	0.6644454	2.058858	778399
0.7070707	2.454546	0.6620562	2.059293	788083
0.7070707	2.474747	0.6596650	2.059728	797243
0.7070707	2.494950	0.6572718	2.060163	805928
0.7070707	2.515151	0.6548769	2.060598	814180
0.7070707	2.535353	0.6524804	2.061034	822036
0.7070707	2.555556	0.6500824	2.061470	829529
0.7070707	2.575758	0.6476832	2.061906	836686
0.7070707	2.595960	0.6452827	2.062343	843534
0.7070707	2.616162	0.6428811	2.062779	850094
0.7070707	2.636364	0.6404785	2.063216	856388
0.7070707	2.656566	0.6380749	2.063653	862433
0.7070707	2.676768	0.6356704	2.064090	868246
0.7070707	2.696970	0.6332651	2.064528	873843
0.7070707	2.717172	0.6308591	2.064965	879236
0.7070707	2.737374	0.6284523	2.065403	884438
0.7070707	2.757576	0.6260448	2.065840	889460

0.7070707	2.777778	0.6236367	2.066278	894313
0.7070707	2.797980	0.6212280	2.066716	899006
0.7070707	2.818182	0.6188188	2.067154	903548
0.7070707	2.838384	0.6164090	2.067592	907947
0.7070707	2.858586	0.6139988	2.068031	912210
0.7070707	2.878788	0.6115881	2.068469	916345
0.7070707	2.898990	0.6091769	2.068907	920358
0.7070707	2.919192	0.6067653	2.069346	924254
0.7070707	2.939394	0.6043533	2.069784	928039
0.7070707	2.959596	0.6019410	2.070223	931719
0.7070707	2.979798	0.5995282	2.070661	935299
0.7070707	3.000000	0.5971152	2.071100	938782
0.7272727	1.000000	0.8588621	2.017690	1821230
0.7272727	1.020202	0.8564430	2.018048	1815713
0.7272727	1.040404	0.8540232	2.018405	1810114
0.7272727	1.060606	0.8516028	2.018763	1804428
0.7272727	1.080808	0.8491816	2.019121	1798653
0.7272727	1.101010	0.8467598	2.019478	1792782
0.7272727	1.121212	0.8443371	2.019836	1786814
0.7272727	1.141414	0.8419137	2.020194	1780741
0.7272727	1.161616	0.8394895	2.020552	1774561
0.7272727	1.181818	0.8370645	2.020910	1768266
0.7272727	1.202020	0.8346386	2.021269	1761852
0.7272727	1.222222	0.8322119	2.021627	1755312
0.7272727	1.242424	0.8297842	2.021986	1748640
0.7272727	1.262626	0.8273555	2.022345	1741829
0.7272727	1.282828	0.8249259	2.022704	1734871
0.7272727	1.303030	0.8224952	2.023063	1727757
0.7272727	1.323232	0.8200634	2.023422	1720479
0.7272727	1.343434	0.8176305	2.023782	1713027
0.7272727	1.363636	0.8151964	2.024141	1705390
0.7272727	1.383838	0.8127610	2.024501	1697557
0.7272727	1.404040	0.8103243	2.024861	1689515
0.7272727	1.424242	0.8078863	2.025221	1681250
0.7272727	1.444444	0.8054468	2.025581	1672747
0.7272727	1.464646	0.8030058	2.025942	1663989
0.7272727	1.484849	0.8005631	2.026303	1654957
0.7272727	1.505051	0.7981187	2.026664	1645631
0.7272727	1.525252	0.7956724	2.027025	1635987
0.7272727	1.545454	0.7932241	2.027387	1626000
0.7272727	1.565657	0.7907738	2.027749	1615640
0.7272727	1.585859	0.7883211	2.028111	1604874
0.7272727	1.606061	0.7858660	2.028474	1593665
0.7272727	1.626263	0.7834082	2.028837	1581969
0.7272727	1.646465	0.7809475	2.029200	1569737
0.7272727	1.666667	0.7784837	2.029565	1556913
0.7272727	1.686869	0.7760163	2.029929	1543428
0.7272727	1.707071	0.7735450	2.030294	1529204
0.7272727	1.727273	0.7710694	2.030660	1514147
0.7272727	1.747475	0.7685890	2.031026	1498144

0.7272727	1.767677	0.7661030	2.031394	1481058
0.7272727	1.787879	0.7636108	2.031762	1462719
0.7272727	1.808081	0.7611113	2.032131	1442916
0.7272727	1.828283	0.7586032	2.032501	1421377
0.7272727	1.848485	0.7560850	2.032873	1397748
0.7272727	1.868687	0.7535544	2.033247	1371555
0.7272727	1.888889	0.7510085	2.033623	1342142
0.7272727	1.909091	0.7484429	2.034002	1308564
0.7272727	1.929293	0.7458512	2.034385	1269389
0.7272727	1.949495	0.7432229	2.034774	1222290
0.7272727	1.969697	0.7405392	2.035170	1163096
0.7272727	1.989899	0.7377613	2.035580	1083133
0.7272727	2.010101	0.7347841	2.036020	958803
0.7272727	2.030303	0.7310265	2.036575	659285
0.7272727	2.050505	0.7271643	2.047455	60034
0.7272727	2.070707	0.7256249	2.047735	268129
0.7272727	2.090909	0.7236321	2.048097	372700
0.7272727	2.111111	0.7214900	2.048487	442707
0.7272727	2.131313	0.7192730	2.048890	495194
0.7272727	2.151515	0.7170112	2.049301	537063
0.7272727	2.171717	0.7147195	2.049718	571805
0.7272727	2.191919	0.7124065	2.050138	601430
0.7272727	2.212121	0.7100778	2.050562	627203
0.7272727	2.232323	0.7077369	2.050987	649973
0.7272727	2.252525	0.7053862	2.051415	670336
0.7272727	2.272727	0.7030277	2.051843	688727
0.7272727	2.292929	0.7006626	2.052274	705474
0.7272727	2.313131	0.6982921	2.052704	720828
0.7272727	2.333333	0.6959169	2.053136	734990
0.7272727	2.353535	0.6935377	2.053569	748117
0.7272727	2.373737	0.6911550	2.054002	760340
0.7272727	2.393939	0.6887693	2.054436	771765
0.7272727	2.414141	0.6863809	2.054870	782482
0.7272727	2.434343	0.6839902	2.055305	792566
0.7272727	2.454546	0.6815973	2.055740	802080
0.7272727	2.474747	0.6792025	2.056175	811080
0.7272727	2.494950	0.6768060	2.056611	819612
0.7272727	2.515151	0.6744079	2.057047	827719
0.7272727	2.535353	0.6720084	2.057483	835435
0.7272727	2.555556	0.6696077	2.057920	842794
0.7272727	2.575758	0.6672057	2.058357	849822
0.7272727	2.595960	0.6648027	2.058794	856545
0.7272727	2.616162	0.6623986	2.059231	862986
0.7272727	2.636364	0.6599936	2.059668	869164
0.7272727	2.656566	0.6575878	2.060105	875096
0.7272727	2.676768	0.6551812	2.060543	880801
0.7272727	2.696970	0.6527738	2.060980	886291
0.7272727	2.717172	0.6503658	2.061418	891581
0.7272727	2.737374	0.6479571	2.061856	896682
0.7272727	2.757576	0.6455478	2.062294	901606

0.7272727	2.777778	0.6431379	2.062733	906363
0.7272727	2.797980	0.6407275	2.063171	910963
0.7272727	2.818182	0.6383167	2.063609	915414
0.7272727	2.838384	0.6359053	2.064048	919723
0.7272727	2.858586	0.6334935	2.064486	923899
0.7272727	2.878788	0.6310813	2.064925	927948
0.7272727	2.898990	0.6286687	2.065363	931877
0.7272727	2.919192	0.6262557	2.065802	935691
0.7272727	2.939394	0.6238423	2.066241	939396
0.7272727	2.959596	0.6214287	2.066680	942997
0.7272727	2.979798	0.6190147	2.067119	946498
0.7272727	3.000000	0.6166003	2.067557	949905
0.7474747	1.000000	0.8780567	2.014855	1829751
0.7474747	1.020202	0.8756399	2.015212	1824176
0.7474747	1.040404	0.8732223	2.015569	1818517
0.7474747	1.060606	0.8708042	2.015926	1812773
0.7474747	1.080808	0.8683853	2.016284	1806937
0.7474747	1.101010	0.8659658	2.016641	1801008
0.7474747	1.121212	0.8635455	2.016999	1794979
0.7474747	1.141414	0.8611245	2.017356	1788847
0.7474747	1.161616	0.8587027	2.017714	1782606
0.7474747	1.181818	0.8562802	2.018072	1776251
0.7474747	1.202020	0.8538568	2.018430	1769776
0.7474747	1.222222	0.8514325	2.018788	1763175
0.7474747	1.242424	0.8490074	2.019146	1756441
0.7474747	1.262626	0.8465814	2.019505	1749566
0.7474747	1.282828	0.8441544	2.019863	1742544
0.7474747	1.303030	0.8417264	2.020222	1735366
0.7474747	1.323232	0.8392974	2.020581	1728022
0.7474747	1.343434	0.8368673	2.020940	1720503
0.7474747	1.363636	0.8344360	2.021299	1712799
0.7474747	1.383838	0.8320036	2.021658	1704896
0.7474747	1.404040	0.8295699	2.022018	1696783
0.7474747	1.424242	0.8271349	2.022377	1688445
0.7474747	1.444444	0.8246986	2.022737	1679867
0.7474747	1.464646	0.8222607	2.023097	1671032
0.7474747	1.484849	0.8198213	2.023458	1661921
0.7474747	1.505051	0.8173803	2.023818	1652512
0.7474747	1.525252	0.8149375	2.024179	1642783
0.7474747	1.545454	0.8124929	2.024540	1632706
0.7474747	1.565657	0.8100462	2.024902	1622252
0.7474747	1.585859	0.8075974	2.025264	1611387
0.7474747	1.606061	0.8051462	2.025626	1600073
0.7474747	1.626263	0.8026925	2.025988	1588267
0.7474747	1.646465	0.8002361	2.026351	1575916
0.7474747	1.666667	0.7977766	2.026714	1562964
0.7474747	1.686869	0.7953139	2.027078	1549341
0.7474747	1.707071	0.7928474	2.027443	1534966
0.7474747	1.727273	0.7903769	2.027808	1519743
0.7474747	1.747475	0.7879018	2.028173	1503556

0.7474747	1.767677	0.7854214	2.028540	1486264
0.7474747	1.787879	0.7829351	2.028907	1467691
0.7474747	1.808081	0.7804419	2.029275	1447617
0.7474747	1.828283	0.7779407	2.029645	1425762
0.7474747	1.848485	0.7754297	2.030016	1401755
0.7474747	1.868687	0.7729070	2.030388	1375101
0.7474747	1.888889	0.7703696	2.030763	1345110
0.7474747	1.909091	0.7678133	2.031141	1310779
0.7474747	1.929293	0.7652318	2.031522	1270577
0.7474747	1.949495	0.7626147	2.031909	1221984
0.7474747	1.969697	0.7599429	2.032303	1160405
0.7474747	1.989899	0.7571761	2.032712	1075990
0.7474747	2.010101	0.7541979	2.033152	940290
0.7474747	2.030303	0.7501662	2.033748	546453
0.7474747	2.050505	0.7471474	2.043822	121887
0.7474747	2.070707	0.7454219	2.044135	302738
0.7474747	2.090909	0.7433624	2.044510	400049
0.7474747	2.111111	0.7411817	2.044906	466637
0.7474747	2.131313	0.7389382	2.045314	517102
0.7474747	2.151515	0.7366563	2.045729	557615
0.7474747	2.171717	0.7343487	2.046149	591369
0.7474747	2.191919	0.7320226	2.046572	620233
0.7474747	2.212121	0.7296828	2.046997	645394
0.7474747	2.232323	0.7273321	2.047424	667656
0.7474747	2.252525	0.7249730	2.047853	687586
0.7474747	2.272727	0.7226069	2.048284	705601
0.7474747	2.292929	0.7202350	2.048715	722014
0.7474747	2.313131	0.7178583	2.049147	737070
0.7474747	2.333333	0.7154775	2.049580	750960
0.7474747	2.353535	0.7130931	2.050013	763839
0.7474747	2.373737	0.7107056	2.050448	775832
0.7474747	2.393939	0.7083155	2.050882	787043
0.7474747	2.414141	0.7059230	2.051317	797559
0.7474747	2.434343	0.7035283	2.051753	807454
0.7474747	2.454546	0.7011318	2.052188	816790
0.7474747	2.474747	0.6987336	2.052624	825620
0.7474747	2.494950	0.6963338	2.053061	833990
0.7474747	2.515151	0.6939327	2.053497	841942
0.7474747	2.535353	0.6915303	2.053934	849510
0.7474747	2.555556	0.6891268	2.054371	856726
0.7474747	2.575758	0.6867223	2.054808	863617
0.7474747	2.595960	0.6843167	2.055245	870207
0.7474747	2.616162	0.6819103	2.055683	876520
0.7474747	2.636364	0.6795030	2.056121	882573
0.7474747	2.656566	0.6770950	2.056558	888385
0.7474747	2.676768	0.6746863	2.056996	893972
0.7474747	2.696970	0.6722770	2.057434	899348
0.7474747	2.717172	0.6698670	2.057873	904527
0.7474747	2.737374	0.6674564	2.058311	909520
0.7474747	2.757576	0.6650454	2.058749	914339

0.7474747	2.777778	0.6626338	2.059188	918993
0.7474747	2.797980	0.6602217	2.059626	923492
0.7474747	2.818182	0.6578093	2.060065	927844
0.7474747	2.838384	0.6553963	2.060504	932058
0.7474747	2.858586	0.6529830	2.060942	936139
0.7474747	2.878788	0.6505694	2.061381	940096
0.7474747	2.898990	0.6481554	2.061820	943934
0.7474747	2.919192	0.6457410	2.062259	947659
0.7474747	2.939394	0.6433264	2.062698	951277
0.7474747	2.959596	0.6409114	2.063137	954793
0.7474747	2.979798	0.6384962	2.063576	958210
0.7474747	3.000000	0.6360807	2.064016	961534
0.7676768	1.000000	0.8972458	2.012020	1838661
0.7676768	1.020202	0.8948313	2.012377	1833022
0.7676768	1.040404	0.8924161	2.012734	1827301
0.7676768	1.060606	0.8900002	2.013091	1821493
0.7676768	1.080808	0.8875837	2.013447	1815595
0.7676768	1.101010	0.8851665	2.013804	1809602
0.7676768	1.121212	0.8827487	2.014162	1803510
0.7676768	1.141414	0.8803301	2.014519	1797314
0.7676768	1.161616	0.8779108	2.014876	1791009
0.7676768	1.181818	0.8754908	2.015234	1784590
0.7676768	1.202020	0.8730699	2.015592	1778050
0.7676768	1.222222	0.8706483	2.015949	1771383
0.7676768	1.242424	0.8682258	2.016307	1764584
0.7676768	1.262626	0.8658024	2.016665	1757643
0.7676768	1.282828	0.8633781	2.017023	1750554
0.7676768	1.303030	0.8609529	2.017382	1743307
0.7676768	1.323232	0.8585267	2.017740	1735895
0.7676768	1.343434	0.8560994	2.018099	1728306
0.7676768	1.363636	0.8536711	2.018457	1720530
0.7676768	1.383838	0.8512417	2.018816	1712554
0.7676768	1.404040	0.8488110	2.019175	1704367
0.7676768	1.424242	0.8463792	2.019534	1695953
0.7676768	1.444444	0.8439460	2.019894	1687297
0.7676768	1.464646	0.8415114	2.020254	1678382
0.7676768	1.484849	0.8390754	2.020614	1669188
0.7676768	1.505051	0.8366378	2.020974	1659693
0.7676768	1.525252	0.8341986	2.021334	1649874
0.7676768	1.545454	0.8317576	2.021695	1639704
0.7676768	1.565657	0.8293147	2.022055	1629153
0.7676768	1.585859	0.8268697	2.022417	1618186
0.7676768	1.606061	0.8244226	2.022778	1606764
0.7676768	1.626263	0.8219731	2.023140	1594843
0.7676768	1.646465	0.8195210	2.023502	1582370
0.7676768	1.666667	0.8170661	2.023865	1569286
0.7676768	1.686869	0.8146080	2.024228	1555521
0.7676768	1.707071	0.8121465	2.024592	1540991
0.7676768	1.727273	0.8096811	2.024956	1525597
0.7676768	1.747475	0.8072115	2.025321	1509221

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0.7676768	1.828283	0.7972757	2.026788	1430367
0.7676768	1.848485	0.7947722	2.027158	1405970
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0.7676768	1.929293	0.7846118	2.028659	1271840
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0.7676768	2.010101	0.7736137	2.030284	918637
0.7676768	2.030303	0.7688039	2.030994	275690
0.7676768	2.050505	0.7670597	2.040201	176871
0.7676768	2.070707	0.7651921	2.040541	336920
0.7676768	2.090909	0.7630745	2.040926	427859
0.7676768	2.111111	0.7608589	2.041329	491298
0.7676768	2.131313	0.7585908	2.041741	539850
0.7676768	2.151515	0.7562901	2.042159	579057
0.7676768	2.171717	0.7539675	2.042582	611846
0.7676768	2.191919	0.7516289	2.043007	639957
0.7676768	2.212121	0.7492783	2.043434	664508
0.7676768	2.232323	0.7469184	2.043863	686257
0.7676768	2.252525	0.7445511	2.044294	705748
0.7676768	2.272727	0.7421777	2.044725	723377
0.7676768	2.292929	0.7397993	2.045158	739447
0.7676768	2.313131	0.7374166	2.045591	754194
0.7676768	2.333333	0.7350303	2.046025	767801
0.7676768	2.353535	0.7326410	2.046459	780420
0.7676768	2.373737	0.7302489	2.046894	792171
0.7676768	2.393939	0.7278544	2.047330	803157
0.7676768	2.414141	0.7254579	2.047765	813462
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0.7676768	2.454546	0.7206594	2.048638	832302
0.7676768	2.474747	0.7182579	2.049074	840951
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0.7676768	2.575758	0.7062325	2.051261	878149
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0.7676768	2.656566	0.6965962	2.053013	902371
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0.7878788	1.060606	0.9091905	2.010255	1830622
0.7878788	1.080808	0.9067765	2.010612	1824656
0.7878788	1.101010	0.9043617	2.010969	1818596
0.7878788	1.121212	0.9019463	2.011326	1812436
0.7878788	1.141414	0.8995303	2.011683	1806173
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0.7878788	1.929293	0.8039912	2.025796	1273188
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0.8080808	2.979798	0.6969088	2.052956	996997
0.8080808	3.000000	0.6944899	2.053396	1000027
0.8282828	1.000000	0.9545389	2.002478	1485216
0.8282828	1.020202	0.9521295	2.002916	1494883
0.8282828	1.040404	0.9497213	2.003354	1505407
0.8282828	1.060606	0.9473145	2.003791	1516919
0.8282828	1.080808	0.9449092	2.004229	1529581
0.8282828	1.101010	0.9425057	2.004666	1543599
0.8282828	1.121212	0.9401043	2.005102	1559231
0.8282828	1.141414	0.9377054	2.005539	1576819
0.8282828	1.161616	0.9353096	2.005974	1596817
0.8282828	1.181818	0.9329176	2.006409	1619849
0.8282828	1.202020	0.9305304	2.006843	1646808
0.8282828	1.222222	0.9281496	2.007276	1679034
0.8282828	1.242424	0.9257776	2.007707	1718663
0.8282828	1.262626	0.9234184	2.008136	1769412
0.8282828	1.282828	0.9210174	2.008508	1776895
0.8282828	1.303030	0.9186008	2.008865	1769420
0.8282828	1.323232	0.9161834	2.009222	1761775
0.8282828	1.343434	0.9137651	2.009580	1753952
0.8282828	1.363636	0.9113459	2.009937	1745938
0.8282828	1.383838	0.9089258	2.010295	1737720
0.8282828	1.404040	0.9065047	2.010652	1729286
0.8282828	1.424242	0.9040826	2.011010	1720621
0.8282828	1.444444	0.9016594	2.011368	1711707
0.8282828	1.464646	0.8992350	2.011726	1702527
0.8282828	1.484849	0.8968095	2.012085	1693060
0.8282828	1.505051	0.8943827	2.012443	1683284
0.8282828	1.525252	0.8919545	2.012802	1673174
0.8282828	1.545454	0.8895249	2.013161	1662702
0.8282828	1.565657	0.8870938	2.013520	1651835
0.8282828	1.585859	0.8846610	2.013879	1640537
0.8282828	1.606061	0.8822264	2.014239	1628766
0.8282828	1.626263	0.8797900	2.014599	1616475
0.8282828	1.646465	0.8773514	2.014959	1603609
0.8282828	1.666667	0.8749106	2.015320	1590103
0.8282828	1.686869	0.8724674	2.015681	1575882
0.8282828	1.707071	0.8700213	2.016042	1560856
0.8282828	1.727273	0.8675722	2.016404	1544918
0.8282828	1.747475	0.8651197	2.016766	1527937

0.8282828	1.767677	0.8626633	2.017129	1509753
0.8282828	1.787879	0.8602024	2.017492	1490167
0.8282828	1.808081	0.8577364	2.017857	1468924
0.8282828	1.828283	0.8552643	2.018222	1445695
0.8282828	1.848485	0.8527848	2.018588	1420042
0.8282828	1.868687	0.8502964	2.018956	1391363
0.8282828	1.888889	0.8477968	2.019325	1358804
0.8282828	1.909091	0.8452823	2.019696	1321085
0.8282828	1.929293	0.8427477	2.020071	1276170
0.8282828	1.949495	0.8401833	2.020450	1220517
0.8282828	1.969697	0.8375706	2.020836	1147084
0.8282828	1.989899	0.8348636	2.021236	1038333
0.8282828	2.010101	0.8318728	2.021678	821548
0.8282828	2.030303	0.8282317	2.029079	38447
0.8282828	2.050505	0.8265043	2.029393	322094
0.8282828	2.070707	0.8243583	2.029783	440946
0.8282828	2.090909	0.8221048	2.030193	516569
0.8282828	2.111111	0.8198015	2.030612	571789
0.8282828	2.131313	0.8174697	2.031036	615091
0.8282828	2.151515	0.8151194	2.031463	650572
0.8282828	2.171717	0.8127562	2.031893	680526
0.8282828	2.191919	0.8103837	2.032324	706368
0.8282828	2.212121	0.8080039	2.032757	729035
0.8282828	2.232323	0.8056186	2.033191	749175
0.8282828	2.252525	0.8032287	2.033625	767259
0.8282828	2.272727	0.8008352	2.034060	783637
0.8282828	2.292929	0.7984385	2.034496	798578
0.8282828	2.313131	0.7960393	2.034932	812293
0.8282828	2.333333	0.7936379	2.035369	824950
0.8282828	2.353535	0.7912345	2.035806	836684
0.8282828	2.373737	0.7888296	2.036243	847608
0.8282828	2.393939	0.7864231	2.036681	857815
0.8282828	2.414141	0.7840154	2.037119	867382
0.8282828	2.434343	0.7816066	2.037556	876376
0.8282828	2.454546	0.7791967	2.037995	884854
0.8282828	2.474747	0.7767859	2.038433	892863
0.8282828	2.494950	0.7743744	2.038871	900448
0.8282828	2.515151	0.7719621	2.039310	907645
0.8282828	2.535353	0.7695491	2.039749	914485
0.8282828	2.555556	0.7671355	2.040188	920999
0.8282828	2.575758	0.7647213	2.040627	927212
0.8282828	2.595960	0.7623067	2.041066	933145
0.8282828	2.616162	0.7598916	2.041505	938820
0.8282828	2.636364	0.7574760	2.041944	944255
0.8282828	2.656566	0.7550601	2.042383	949466
0.8282828	2.676768	0.7526437	2.042822	954468
0.8282828	2.696970	0.7502271	2.043262	959274
0.8282828	2.717172	0.7478101	2.043701	963898
0.8282828	2.737374	0.7453928	2.044141	968349
0.8282828	2.757576	0.7429752	2.044580	972639

0.8282828	2.777778	0.7405574	2.045020	976777
0.8282828	2.797980	0.7381393	2.045460	980771
0.8282828	2.818182	0.7357211	2.045899	984629
0.8282828	2.838384	0.7333026	2.046339	988359
0.8282828	2.858586	0.7308838	2.046779	991967
0.8282828	2.878788	0.7284649	2.047219	995460
0.8282828	2.898990	0.7260459	2.047658	998844
0.8282828	2.919192	0.7236266	2.048098	1002123
0.8282828	2.939394	0.7212072	2.048538	1005304
0.8282828	2.959596	0.7187877	2.048978	1008391
0.8282828	2.979798	0.7163680	2.049418	1011387
0.8282828	3.000000	0.7139481	2.049858	1014298
0.8484848	1.000000	0.9737647	1.998982	1395681
0.8484848	1.020202	0.9713481	1.999422	1400626
0.8484848	1.040404	0.9689320	1.999861	1405892
0.8484848	1.060606	0.9665163	2.000300	1411513
0.8484848	1.080808	0.9641012	2.000739	1417529
0.8484848	1.101010	0.9616867	2.001178	1423985
0.8484848	1.121212	0.9592729	2.001617	1430933
0.8484848	1.141414	0.9568598	2.002056	1438436
0.8484848	1.161616	0.9544475	2.002495	1446568
0.8484848	1.181818	0.9520362	2.002933	1455417
0.8484848	1.202020	0.9496260	2.003371	1465090
0.8484848	1.222222	0.9472170	2.003809	1475718
0.8484848	1.242424	0.9448095	2.004247	1487462
0.8484848	1.262626	0.9424037	2.004684	1500526
0.8484848	1.282828	0.9399999	2.005121	1515171
0.8484848	1.303030	0.9375985	2.005558	1531738
0.8484848	1.323232	0.9352000	2.005994	1550686
0.8484848	1.343434	0.9328053	2.006429	1572647
0.8484848	1.363636	0.9304153	2.006864	1598529
0.8484848	1.383838	0.9280316	2.007297	1629700
0.8484848	1.404040	0.9256567	2.007729	1668354
0.8484848	1.424242	0.9232948	2.008159	1718337
0.8484848	1.444444	0.9208864	2.008528	1720656
0.8484848	1.464646	0.9184656	2.008885	1711378
0.8484848	1.484849	0.9160437	2.009243	1701811
0.8484848	1.505051	0.9136206	2.009601	1691932
0.8484848	1.525252	0.9111963	2.009959	1681716
0.8484848	1.545454	0.9087707	2.010318	1671133
0.8484848	1.565657	0.9063436	2.010676	1660151
0.8484848	1.585859	0.9039151	2.011035	1648733
0.8484848	1.606061	0.9014849	2.011394	1636837
0.8484848	1.626263	0.8990530	2.011753	1624413
0.8484848	1.646465	0.8966192	2.012113	1611405
0.8484848	1.666667	0.8941833	2.012472	1597748
0.8484848	1.686869	0.8917452	2.012833	1583364
0.8484848	1.707071	0.8893046	2.013193	1568162
0.8484848	1.727273	0.8868612	2.013554	1552029
0.8484848	1.747475	0.8844146	2.013916	1534833

0.8484848	1.767677	0.8819646	2.014278	1516408
0.8484848	1.787879	0.8795105	2.014640	1496547
0.8484848	1.808081	0.8770518	2.015003	1474987
0.8484848	1.828283	0.8745876	2.015367	1451384
0.8484848	1.848485	0.8721167	2.015732	1425281
0.8484848	1.868687	0.8696377	2.016099	1396045
0.8484848	1.888889	0.8671485	2.016466	1362772
0.8484848	1.909091	0.8646458	2.016836	1324098
0.8484848	1.929293	0.8621246	2.017209	1277827
0.8484848	1.949495	0.8595760	2.017585	1220074
0.8484848	1.969697	0.8569818	2.017968	1142920
0.8484848	1.989899	0.8542954	2.018365	1025661
0.8484848	2.010101	0.8512943	2.018808	768711
0.8484848	2.030303	0.8481857	2.025451	135155
0.8484848	2.050505	0.8462440	2.025804	368307
0.8484848	2.070707	0.8440347	2.026206	477576
0.8484848	2.090909	0.8417455	2.026622	548988
0.8484848	2.111111	0.8394179	2.027045	601762
0.8484848	2.131313	0.8370677	2.027473	643414
0.8484848	2.151515	0.8347029	2.027903	677675
0.8484848	2.171717	0.8323277	2.028334	706669
0.8484848	2.191919	0.8299450	2.028768	731723
0.8484848	2.212121	0.8275565	2.029202	753718
0.8484848	2.232323	0.8251635	2.029637	773272
0.8484848	2.252525	0.8227668	2.030073	790834
0.8484848	2.272727	0.8203671	2.030509	806741
0.8484848	2.292929	0.8179649	2.030946	821252
0.8484848	2.313131	0.8155607	2.031383	834568
0.8484848	2.333333	0.8131546	2.031820	846854
0.8484848	2.353535	0.8107470	2.032258	858241
0.8484848	2.373737	0.8083381	2.032696	868837
0.8484848	2.393939	0.8059280	2.033134	878732
0.8484848	2.414141	0.8035169	2.033573	888003
0.8484848	2.434343	0.8011049	2.034011	896715
0.8484848	2.454546	0.7986920	2.034450	904922
0.8484848	2.474747	0.7962785	2.034889	912672
0.8484848	2.494950	0.7938643	2.035328	920007
0.8484848	2.515151	0.7914495	2.035767	926962
0.8484848	2.535353	0.7890341	2.036206	933570
0.8484848	2.555556	0.7866183	2.036645	939859
0.8484848	2.575758	0.7842020	2.037085	945853
0.8484848	2.595960	0.7817853	2.037524	951575
0.8484848	2.616162	0.7793683	2.037963	957044
0.8484848	2.636364	0.7769509	2.038403	962279
0.8484848	2.656566	0.7745332	2.038842	967296
0.8484848	2.676768	0.7721152	2.039282	972109
0.8484848	2.696970	0.7696969	2.039722	976731
0.8484848	2.717172	0.7672784	2.040162	981175
0.8484848	2.737374	0.7648596	2.040601	985452
0.8484848	2.757576	0.7624406	2.041041	989570

0.8484848	2.777778	0.7600214	2.041481	993541
0.8484848	2.797980	0.7576020	2.041921	997371
0.8484848	2.818182	0.7551825	2.042361	1001070
0.8484848	2.838384	0.7527628	2.042801	1004644
0.8484848	2.858586	0.7503429	2.043241	1008099
0.8484848	2.878788	0.7479228	2.043681	1011442
0.8484848	2.898990	0.7455027	2.044121	1014679
0.8484848	2.919192	0.7430823	2.044561	1017816
0.8484848	2.939394	0.7406619	2.045001	1020856
0.8484848	2.959596	0.7382414	2.045441	1023804
0.8484848	2.979798	0.7358207	2.045881	1026666
0.8484848	3.000000	0.7333999	2.046321	1029444
0.8686869	1.000000	0.9930429	1.995477	1331483
0.8686869	1.020202	0.9906227	1.995917	1334056
0.8686869	1.040404	0.9882026	1.996357	1336767
0.8686869	1.060606	0.9857827	1.996797	1339628
0.8686869	1.080808	0.9833630	1.997237	1342650
0.8686869	1.101010	0.9809436	1.997677	1345850
0.8686869	1.121212	0.9785244	1.998117	1349243
0.8686869	1.141414	0.9761055	1.998557	1352848
0.8686869	1.161616	0.9736869	1.998996	1356685
0.8686869	1.181818	0.9712687	1.999436	1360779
0.8686869	1.202020	0.9688508	1.999876	1365157
0.8686869	1.222222	0.9664333	2.000315	1369851
0.8686869	1.242424	0.9640162	2.000755	1374896
0.8686869	1.262626	0.9615997	2.001194	1380335
0.8686869	1.282828	0.9591837	2.001633	1386219
0.8686869	1.303030	0.9567684	2.002073	1392606
0.8686869	1.323232	0.9543538	2.002512	1399566
0.8686869	1.343434	0.9519400	2.002950	1407184
0.8686869	1.363636	0.9495272	2.003389	1415562
0.8686869	1.383838	0.9471155	2.003828	1424827
0.8686869	1.404040	0.9447050	2.004266	1435136
0.8686869	1.424242	0.9422962	2.004704	1446689
0.8686869	1.444444	0.9398891	2.005142	1459743
0.8686869	1.464646	0.9374843	2.005579	1474635
0.8686869	1.484849	0.9350823	2.006016	1491821
0.8686869	1.505051	0.9326837	2.006452	1511938
0.8686869	1.525252	0.9302897	2.006887	1535902
0.8686869	1.545454	0.9279019	2.007321	1565106
0.8686869	1.565657	0.9255226	2.007754	1601803
0.8686869	1.585859	0.9231564	2.008184	1649983
0.8686869	1.606061	0.9207380	2.008550	1645332
0.8686869	1.626263	0.9183108	2.008908	1632769
0.8686869	1.646465	0.9158818	2.009267	1619615
0.8686869	1.666667	0.9134510	2.009626	1605800
0.8686869	1.686869	0.9110181	2.009986	1591247
0.8686869	1.707071	0.9085830	2.010345	1575861
0.8686869	1.727273	0.9061455	2.010705	1559527
0.8686869	1.747475	0.9037051	2.011066	1542108

0.8686869	1.767677	0.9012617	2.011427	1523433
0.8686869	1.787879	0.8988146	2.011788	1503288
0.8686869	1.808081	0.8963634	2.012151	1481399
0.8686869	1.828283	0.8939073	2.012513	1457409
0.8686869	1.848485	0.8914453	2.012877	1430838
0.8686869	1.868687	0.8889761	2.013242	1401022
0.8686869	1.888889	0.8864978	2.013608	1367003
0.8686869	1.909091	0.8840075	2.013976	1327323
0.8686869	1.929293	0.8815006	2.014346	1279610
0.8686869	1.949495	0.8789689	2.014720	1219592
0.8686869	1.969697	0.8763952	2.015100	1138315
0.8686869	1.989899	0.8737329	2.015494	1011060
0.8686869	2.010101	0.8707112	2.015940	692445
0.8686869	2.030303	0.8680406	2.021841	216659
0.8686869	2.050505	0.8659513	2.022221	415149
0.8686869	2.070707	0.8636883	2.022632	516094
0.8686869	2.090909	0.8613673	2.023055	583598
0.8686869	2.111111	0.8590173	2.023482	634010
0.8686869	2.131313	0.8566502	2.023912	674024
0.8686869	2.151515	0.8542717	2.024345	707048
0.8686869	2.171717	0.8518853	2.024779	735050
0.8686869	2.191919	0.8494930	2.025213	759274
0.8686869	2.212121	0.8470962	2.025649	780554
0.8686869	2.232323	0.8446959	2.026086	799478
0.8686869	2.252525	0.8422928	2.026523	816474
0.8686869	2.272727	0.8398873	2.026960	831865
0.8686869	2.292929	0.8374799	2.027398	845900
0.8686869	2.313131	0.8350708	2.027836	858775
0.8686869	2.333333	0.8326604	2.028274	870647
0.8686869	2.353535	0.8302488	2.028712	881645
0.8686869	2.373737	0.8278362	2.029151	891872
0.8686869	2.393939	0.8254226	2.029590	901418
0.8686869	2.414141	0.8230083	2.030029	910355
0.8686869	2.434343	0.8205933	2.030468	918747
0.8686869	2.454546	0.8181776	2.030907	926647
0.8686869	2.474747	0.8157614	2.031347	934103
0.8686869	2.494950	0.8133447	2.031786	941154
0.8686869	2.515151	0.8109276	2.032225	947835
0.8686869	2.535353	0.8085100	2.032665	954179
0.8686869	2.555556	0.8060921	2.033104	960211
0.8686869	2.575758	0.8036738	2.033544	965957
0.8686869	2.595960	0.8012553	2.033984	971439
0.8686869	2.616162	0.7988364	2.034424	976675
0.8686869	2.636364	0.7964173	2.034864	981683
0.8686869	2.656566	0.7939979	2.035303	986478
0.8686869	2.676768	0.7915783	2.035743	991076
0.8686869	2.696970	0.7891586	2.036183	995489
0.8686869	2.717172	0.7867386	2.036623	999729
0.8686869	2.737374	0.7843185	2.037063	1003806
0.8686869	2.757576	0.7818981	2.037503	1007731

0.8686869	2.777778	0.7794777	2.037943	1011512
0.8686869	2.797980	0.7770571	2.038384	1015157
0.8686869	2.818182	0.7746363	2.038824	1018675
0.8686869	2.838384	0.7722155	2.039264	1022071
0.8686869	2.858586	0.7697945	2.039704	1025354
0.8686869	2.878788	0.7673734	2.040144	1028528
0.8686869	2.898990	0.7649522	2.040585	1031599
0.8686869	2.919192	0.7625309	2.041025	1034573
0.8686869	2.939394	0.7601095	2.041465	1037454
0.8686869	2.959596	0.7576880	2.041905	1040247
0.8686869	2.979798	0.7552665	2.042346	1042956
0.8686869	3.000000	0.7528449	2.042786	1045584
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0.8888889	1.060606	1.0050888	1.993287	1284943
0.8888889	1.080808	1.0026667	1.993727	1286260
0.8888889	1.101010	1.0002446	1.994168	1287644
0.8888889	1.121212	0.9978227	1.994608	1289099
0.8888889	1.141414	0.9954008	1.995049	1290631
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0.8888889	1.181818	0.9905573	1.995929	1293955
0.8888889	1.202020	0.9881358	1.996369	1295761
0.8888889	1.222222	0.9857144	1.996810	1297674
0.8888889	1.242424	0.9832931	1.997250	1299706
0.8888889	1.262626	0.9808720	1.997690	1301866
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0.8888889	1.343434	0.9711894	1.999451	1312081
0.8888889	1.363636	0.9687693	1.999891	1315119
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0.8888889	1.404040	0.9639300	2.000770	1321943
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0.8888889	1.565657	0.9445928	2.004286	1366144
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0.8888889	1.606061	0.9397677	2.005164	1385131
0.8888889	1.626263	0.9373578	2.005602	1396870
0.8888889	1.646465	0.9349502	2.006039	1410642
0.8888889	1.666667	0.9325456	2.006477	1427055
0.8888889	1.686869	0.9301450	2.006913	1447004
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0.8888889	1.808081	0.9156707	2.009298	1488195
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0.8888889	1.868687	0.9083113	2.010385	1406324
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0.8888889	1.929293	0.9008755	2.011484	1281536
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0.8888889	1.969697	0.8958112	2.012232	1133195
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0.8888889	2.151515	0.8738245	2.020790	739276
0.8888889	2.171717	0.8714276	2.021225	766228
0.8888889	2.191919	0.8690263	2.021662	789560
0.8888889	2.212121	0.8666218	2.022099	810060
0.8888889	2.232323	0.8642146	2.022537	828288
0.8888889	2.252525	0.8618054	2.022975	844653
0.8888889	2.272727	0.8593945	2.023413	859465
0.8888889	2.292929	0.8569821	2.023852	872964
0.8888889	2.313131	0.8545686	2.024291	885338
0.8888889	2.333333	0.8521541	2.024730	896739
0.8888889	2.353535	0.8497388	2.025169	907291
0.8888889	2.373737	0.8473227	2.025608	917095
0.8888889	2.393939	0.8449059	2.026047	926238
0.8888889	2.414141	0.8424886	2.026487	934791
0.8888889	2.434343	0.8400708	2.026927	942814
0.8888889	2.454546	0.8376525	2.027366	950361
0.8888889	2.474747	0.8352339	2.027806	957476
0.8888889	2.494950	0.8328148	2.028246	964198
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0.8888889	2.535353	0.8279759	2.029126	976601
0.8888889	2.555556	0.8255560	2.029566	982337
0.8888889	2.575758	0.8231359	2.030006	987796
0.8888889	2.595960	0.8207156	2.030446	992999
0.8888889	2.616162	0.8182951	2.030886	997965
0.8888889	2.636364	0.8158744	2.031326	1002711
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0.8888889	2.676768	0.8110325	2.032206	1011601
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0.8888889	2.717172	0.8061901	2.033087	1019777
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0.8888889	2.818182	0.7940820	2.035288	1037631
0.8888889	2.838384	0.7916601	2.035728	1040825
0.8888889	2.858586	0.7892381	2.036169	1043909
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0.8888889	2.898990	0.7843939	2.037050	1049771
0.8888889	2.919192	0.7819717	2.037490	1052560
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0.8888889	2.979798	0.7747048	2.038811	1060409
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0.9090909	1.101010	1.0195761	1.990653	1241182
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0.9090909	1.141414	1.0147292	1.991534	1241658
0.9090909	1.161616	1.0123057	1.991975	1241914
0.9090909	1.181818	1.0098823	1.992415	1242182
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0.9090909	1.222222	1.0050355	1.993297	1242760
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0.9090909	1.262626	1.0001887	1.994178	1243402
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0.9090909	1.404040	0.9832257	1.997262	1246345
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0.9090909	1.444444	0.9783794	1.998143	1247465
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0.9090909	1.626263	0.9565744	2.002108	1255569
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0.9292929	2.373737	0.8862550	2.018530	976359
0.9292929	2.393939	0.8838327	2.018970	984448
0.9292929	2.414141	0.8814102	2.019410	991993
0.9292929	2.434343	0.8789876	2.019851	999051
0.9292929	2.454546	0.8765649	2.020291	1005670
0.9292929	2.474747	0.8741420	2.020732	1011894
0.9292929	2.494950	0.8717191	2.021172	1017758
0.9292929	2.515151	0.8692961	2.021613	1023295
0.9292929	2.535353	0.8668730	2.022054	1028533
0.9292929	2.555556	0.8644499	2.022494	1033497
0.9292929	2.575758	0.8620266	2.022935	1038209
0.9292929	2.595960	0.8596034	2.023375	1042688
0.9292929	2.616162	0.8571801	2.023816	1046953
0.9292929	2.636364	0.8547568	2.024256	1051019
0.9292929	2.656566	0.8523334	2.024697	1054901
0.9292929	2.676768	0.8499100	2.025138	1058610
0.9292929	2.696970	0.8474865	2.025578	1062160
0.9292929	2.717172	0.8450631	2.026019	1065560
0.9292929	2.737374	0.8426396	2.026460	1068820
0.9292929	2.757576	0.8402161	2.026900	1071948

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0.9292929	2.797980	0.8353690	2.027782	1077844
0.9292929	2.818182	0.8329454	2.028222	1080625
0.9292929	2.838384	0.8305218	2.028663	1083303
0.9292929	2.858586	0.8280982	2.029103	1085885
0.9292929	2.878788	0.8256746	2.029544	1088374
0.9292929	2.898990	0.8232510	2.029985	1090777
0.9292929	2.919192	0.8208274	2.030425	1093099
0.9292929	2.939394	0.8184038	2.030866	1095342
0.9292929	2.959596	0.8159801	2.031307	1097511
0.9292929	2.979798	0.8135565	2.031747	1099610
0.9292929	3.000000	0.8111328	2.032188	1101643
0.9494949	1.000000	1.0704262	1.981407	1174762
0.9494949	1.020202	1.0680018	1.981848	1173742
0.9494949	1.040404	1.0655774	1.982289	1172685
0.9494949	1.060606	1.0631529	1.982730	1171588
0.9494949	1.080808	1.0607285	1.983171	1170449
0.9494949	1.101010	1.0583040	1.983612	1169264
0.9494949	1.121212	1.0558794	1.984052	1168033
0.9494949	1.141414	1.0534549	1.984493	1166751
0.9494949	1.161616	1.0510303	1.984934	1165416
0.9494949	1.181818	1.0486057	1.985375	1164023
0.9494949	1.202020	1.0461810	1.985816	1162570
0.9494949	1.222222	1.0437563	1.986257	1161052
0.9494949	1.242424	1.0413316	1.986697	1159465
0.9494949	1.262626	1.0389068	1.987138	1157803
0.9494949	1.282828	1.0364819	1.987579	1156062
0.9494949	1.303030	1.0340570	1.988020	1154235
0.9494949	1.323232	1.0316321	1.988461	1152317
0.9494949	1.343434	1.0292071	1.988902	1150299
0.9494949	1.363636	1.0267820	1.989343	1148173
0.9494949	1.383838	1.0243568	1.989784	1145932
0.9494949	1.404040	1.0219316	1.990225	1143564
0.9494949	1.424242	1.0195063	1.990666	1141060
0.9494949	1.444444	1.0170809	1.991107	1138406
0.9494949	1.464646	1.0146554	1.991548	1135588
0.9494949	1.484849	1.0122297	1.991989	1132590
0.9494949	1.505051	1.0098040	1.992430	1129396
0.9494949	1.525252	1.0073781	1.992871	1125983
0.9494949	1.545454	1.0049521	1.993312	1122328
0.9494949	1.565657	1.0025259	1.993753	1118405
0.9494949	1.585859	1.0000995	1.994194	1114181
0.9494949	1.606061	0.9976730	1.994635	1109620
0.9494949	1.626263	0.9952462	1.995077	1104679
0.9494949	1.646465	0.9928191	1.995518	1099307
0.9494949	1.666667	0.9903918	1.995959	1093443
0.9494949	1.686869	0.9879641	1.996401	1087014
0.9494949	1.707071	0.9855361	1.996842	1079930
0.9494949	1.727273	0.9831076	1.997284	1072083
0.9494949	1.747475	0.9806786	1.997725	1063336

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0.9494949	1.808081	0.9733874	1.999051	1029704
0.9494949	1.828283	0.9709551	1.999493	1015028
0.9494949	1.848485	0.9685215	1.999936	997832
0.9494949	1.868687	0.9660861	2.000378	977339
0.9494949	1.888889	0.9636484	2.000822	952380
0.9494949	1.909091	0.9612075	2.001265	921089
0.9494949	1.929293	0.9587620	2.001710	880225
0.9494949	1.949495	0.9563089	2.002156	823417
0.9494949	1.969697	0.9538418	2.002605	735207
0.9494949	1.989899	0.9513368	2.003060	556729
0.9494949	2.010101	0.9491860	2.007087	178304
0.9494949	2.030303	0.9468568	2.007511	513593
0.9494949	2.050505	0.9444580	2.007947	635937
0.9494949	2.070707	0.9420457	2.008386	710552
0.9494949	2.090909	0.9396281	2.008825	763511
0.9494949	2.111111	0.9372078	2.009265	804092
0.9494949	2.131313	0.9347859	2.009706	836677
0.9494949	2.151515	0.9323632	2.010146	863685
0.9494949	2.171717	0.9299398	2.010587	886592
0.9494949	2.191919	0.9275160	2.011027	906364
0.9494949	2.212121	0.9250920	2.011468	923668
0.9494949	2.232323	0.9226678	2.011909	938982
0.9494949	2.252525	0.9202435	2.012350	952662
0.9494949	2.272727	0.9178191	2.012791	964978
0.9494949	2.292929	0.9153947	2.013231	976141
0.9494949	2.313131	0.9129702	2.013672	986317
0.9494949	2.333333	0.9105457	2.014113	995642
0.9494949	2.353535	0.9081212	2.014554	1004225
0.9494949	2.373737	0.9056967	2.014995	1012156
0.9494949	2.393939	0.9032722	2.015435	1019513
0.9494949	2.414141	0.9008477	2.015876	1026358
0.9494949	2.434343	0.8984232	2.016317	1032747
0.9494949	2.454546	0.8959988	2.016758	1038726
0.9494949	2.474747	0.8935743	2.017199	1044334
0.9494949	2.494950	0.8911499	2.017640	1049608
0.9494949	2.515151	0.8887255	2.018080	1054577
0.9494949	2.535353	0.8863011	2.018521	1059268
0.9494949	2.555556	0.8838767	2.018962	1063705
0.9494949	2.575758	0.8814523	2.019403	1067909
0.9494949	2.595960	0.8790280	2.019843	1071898
0.9494949	2.616162	0.8766036	2.020284	1075690
0.9494949	2.636364	0.8741793	2.020725	1079298
0.9494949	2.656566	0.8717550	2.021166	1082737
0.9494949	2.676768	0.8693307	2.021607	1086018
0.9494949	2.696970	0.8669065	2.022047	1089152
0.9494949	2.717172	0.8644822	2.022488	1092150
0.9494949	2.737374	0.8620580	2.022929	1095019
0.9494949	2.757576	0.8596337	2.023370	1097770

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0.9494949	2.797980	0.8547853	2.024251	1102941
0.9494949	2.818182	0.8523612	2.024692	1105375
0.9494949	2.838384	0.8499370	2.025133	1107716
0.9494949	2.858586	0.8475128	2.025574	1109970
0.9494949	2.878788	0.8450887	2.026014	1112141
0.9494949	2.898990	0.8426645	2.026455	1114233
0.9494949	2.919192	0.8402404	2.026896	1116252
0.9494949	2.939394	0.8378163	2.027337	1118201
0.9494949	2.959596	0.8353922	2.027777	1120083
0.9494949	2.979798	0.8329681	2.028218	1121903
0.9494949	3.000000	0.8305440	2.028659	1123662
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0.9696970	1.020202	1.0873902	1.978323	1146399
0.9696970	1.040404	1.0849659	1.978764	1144922
0.9696970	1.060606	1.0825415	1.979205	1143393
0.9696970	1.080808	1.0801171	1.979645	1141807
0.9696970	1.101010	1.0776926	1.980086	1140162
0.9696970	1.121212	1.0752682	1.980527	1138455
0.9696970	1.141414	1.0728437	1.980968	1136681
0.9696970	1.161616	1.0704192	1.981409	1134838
0.9696970	1.181818	1.0679947	1.981850	1132919
0.9696970	1.202020	1.0655701	1.982290	1130921
0.9696970	1.222222	1.0631455	1.982731	1128839
0.9696970	1.242424	1.0607209	1.983172	1126667
0.9696970	1.262626	1.0582962	1.983613	1124399
0.9696970	1.282828	1.0558715	1.984054	1122028
0.9696970	1.303030	1.0534467	1.984495	1119547
0.9696970	1.323232	1.0510219	1.984936	1116949
0.9696970	1.343434	1.0485971	1.985376	1114223
0.9696970	1.363636	1.0461722	1.985817	1111361
0.9696970	1.383838	1.0437472	1.986258	1108352
0.9696970	1.404040	1.0413222	1.986699	1105184
0.9696970	1.424242	1.0388972	1.987140	1101843
0.9696970	1.444444	1.0364720	1.987581	1098314
0.9696970	1.464646	1.0340468	1.988022	1094582
0.9696970	1.484849	1.0316215	1.988463	1090626
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0.9696970	1.525252	1.0267707	1.989345	1081958
0.9696970	1.545454	1.0243451	1.989786	1077194
0.9696970	1.565657	1.0219195	1.990227	1072102
0.9696970	1.585859	1.0194937	1.990668	1066646
0.9696970	1.606061	1.0170677	1.991109	1060784
0.9696970	1.626263	1.0146417	1.991550	1054465
0.9696970	1.646465	1.0122155	1.991991	1047632
0.9696970	1.666667	1.0097891	1.992432	1040216
0.9696970	1.686869	1.0073625	1.992874	1032134
0.9696970	1.707071	1.0049356	1.993315	1023286
0.9696970	1.727273	1.0025086	1.993756	1013549
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0.9696970	1.787879	0.9952255	1.995080	977278
0.9696970	1.808081	0.9927970	1.995522	961996
0.9696970	1.828283	0.9903680	1.995964	944488
0.9696970	1.848485	0.9879384	1.996405	924161
0.9696970	1.868687	0.9855081	1.996847	900164
0.9696970	1.888889	0.9830769	1.997289	871218
0.9696970	1.909091	0.9806445	1.997731	835269
0.9696970	1.929293	0.9782107	1.998174	788717
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0.9696970	2.010101	0.9688753	2.003508	342771
0.9696970	2.030303	0.9664278	2.003953	603548
0.9696970	2.050505	0.9639876	2.004396	712994
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0.9696970	2.090909	0.9591167	2.005282	829812
0.9696970	2.111111	0.9566840	2.005724	867062
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0.9696970	2.171717	0.9493922	2.007050	942321
0.9696970	2.191919	0.9469631	2.007492	960193
0.9696970	2.212121	0.9445345	2.007933	975762
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0.9696970	2.272727	0.9372512	2.009257	1012609
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0.9696970	2.515151	0.9081377	2.014551	1090477
0.9696970	2.535353	0.9057124	2.014992	1094458
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0.9696970	2.636364	0.8935870	2.017196	1111334
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0.9696970	2.696970	0.8863124	2.018519	1119558
0.9696970	2.717172	0.8838876	2.018960	1122050
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0.9696970	2.818182	0.8717644	2.021164	1132981
0.9696970	2.838384	0.8693398	2.021605	1134906
0.9696970	2.858586	0.8669153	2.022046	1136755
0.9696970	2.878788	0.8644908	2.022487	1138534
0.9696970	2.898990	0.8620664	2.022927	1140246
0.9696970	2.919192	0.8596419	2.023368	1141895
0.9696970	2.939394	0.8572175	2.023809	1143484
0.9696970	2.959596	0.8547931	2.024250	1145018
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0.9898990	1.161616	1.0898222	1.977881	1107750
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0.9898990	1.202020	1.0849738	1.978762	1102994
0.9898990	1.222222	1.0825496	1.979203	1100472
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0.9898990	1.282828	1.0752770	1.980525	1092251
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0.9898990	1.323232	1.0704285	1.981407	1086150
0.9898990	1.343434	1.0680042	1.981848	1082887
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0.9898990	1.424242	1.0583070	1.983611	1068146
0.9898990	1.444444	1.0558826	1.984052	1063970
0.9898990	1.464646	1.0534583	1.984493	1059563
0.9898990	1.484849	1.0510339	1.984933	1054904
0.9898990	1.505051	1.0486095	1.985374	1049972
0.9898990	1.525252	1.0461851	1.985815	1044739
0.9898990	1.545454	1.0437606	1.986256	1039176
0.9898990	1.565657	1.0413362	1.986697	1033248
0.9898990	1.585859	1.0389117	1.987137	1026917
0.9898990	1.606061	1.0364873	1.987578	1020135
0.9898990	1.626263	1.0340628	1.988019	1012851
0.9898990	1.646465	1.0316383	1.988460	1005002
0.9898990	1.666667	1.0292138	1.988901	996514
0.9898990	1.686869	1.0267894	1.989342	987299
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0.9898990	1.828283	1.0098200	1.992427	889212
0.9898990	1.848485	1.0073966	1.992867	866823
0.9898990	1.868687	1.0049739	1.993308	840504
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0.9898990	2.010101	0.9884455	1.999949	507865
0.9898990	2.030303	0.9859267	2.000407	718153
0.9898990	2.050505	0.9834559	2.000857	813946
0.9898990	2.070707	0.9810011	2.001303	874085
0.9898990	2.090909	0.9785545	2.001748	916783
0.9898990	2.111111	0.9761129	2.002192	949217
0.9898990	2.131313	0.9736748	2.002635	974944
0.9898990	2.151515	0.9712390	2.003078	995980
0.9898990	2.171717	0.9688051	2.003520	1013576
0.9898990	2.191919	0.9663726	2.003963	1028556
0.9898990	2.212121	0.9639412	2.004405	1041490
0.9898990	2.232323	0.9615107	2.004847	1052789
0.9898990	2.252525	0.9590810	2.005288	1062758
0.9898990	2.272727	0.9566519	2.005730	1071626
0.9898990	2.292929	0.9542233	2.006172	1079573
0.9898990	2.313131	0.9517952	2.006613	1086738
0.9898990	2.333333	0.9493675	2.007055	1093237
0.9898990	2.353535	0.9469401	2.007496	1099159
0.9898990	2.373737	0.9445130	2.007937	1104580
0.9898990	2.393939	0.9420862	2.008378	1109563
0.9898990	2.414141	0.9396596	2.008820	1114159
0.9898990	2.434343	0.9372332	2.009261	1118414
0.9898990	2.454546	0.9348070	2.009702	1122364
0.9898990	2.474747	0.9323809	2.010143	1126041
0.9898990	2.494950	0.9299550	2.010584	1129474
0.9898990	2.515151	0.9275293	2.011025	1132686
0.9898990	2.535353	0.9251036	2.011466	1135698
0.9898990	2.555556	0.9226781	2.011907	1138529
0.9898990	2.575758	0.9202527	2.012348	1141195
0.9898990	2.595960	0.9178274	2.012789	1143709
0.9898990	2.616162	0.9154021	2.013230	1146086
0.9898990	2.636364	0.9129769	2.013671	1148334
0.9898990	2.656566	0.9105518	2.014112	1150466
0.9898990	2.676768	0.9081268	2.014553	1152490
0.9898990	2.696970	0.9057019	2.014994	1154414
0.9898990	2.717172	0.9032770	2.015435	1156245
0.9898990	2.737374	0.9008521	2.015875	1157989
0.9898990	2.757576	0.8984273	2.016316	1159654

0.9898990	2.777778	0.8960026	2.016757	1161244
0.9898990	2.797980	0.8935778	2.017198	1162764
0.9898990	2.818182	0.8911532	2.017639	1164220
0.9898990	2.838384	0.8887286	2.018080	1165614
0.9898990	2.858586	0.8863040	2.018521	1166950
0.9898990	2.878788	0.8838794	2.018961	1168233
0.9898990	2.898990	0.8814549	2.019402	1169466
0.9898990	2.919192	0.8790304	2.019843	1170650
0.9898990	2.939394	0.8766059	2.020284	1171790
0.9898990	2.959596	0.8741815	2.020725	1172888
0.9898990	2.979798	0.8717571	2.021165	1173945
0.9898990	3.000000	0.8693327	2.021606	1174965
1.0101010	1.000000	1.1286263	1.970826	1101689
1.0101010	1.020202	1.1262027	1.971266	1099663
1.0101010	1.040404	1.1237790	1.971707	1097572
1.0101010	1.060606	1.1213554	1.972148	1095410
1.0101010	1.080808	1.1189318	1.972588	1093175
1.0101010	1.101010	1.1165081	1.973029	1090863
1.0101010	1.121212	1.1140845	1.973470	1088469
1.0101010	1.141414	1.1116609	1.973910	1085990
1.0101010	1.161616	1.1092374	1.974351	1083419
1.0101010	1.181818	1.1068138	1.974792	1080753
1.0101010	1.202020	1.1043902	1.975232	1077984
1.0101010	1.222222	1.1019667	1.975673	1075107
1.0101010	1.242424	1.0995432	1.976114	1072116
1.0101010	1.262626	1.0971197	1.976554	1069003
1.0101010	1.282828	1.0946962	1.976995	1065759
1.0101010	1.303030	1.0922727	1.977435	1062377
1.0101010	1.323232	1.0898493	1.977876	1058847
1.0101010	1.343434	1.0874259	1.978317	1055158
1.0101010	1.363636	1.0850025	1.978757	1051299
1.0101010	1.383838	1.0825792	1.979198	1047257
1.0101010	1.404040	1.0801559	1.979639	1043019
1.0101010	1.424242	1.0777326	1.980079	1038568
1.0101010	1.444444	1.0753094	1.980520	1033888
1.0101010	1.464646	1.0728863	1.980960	1028958
1.0101010	1.484849	1.0704632	1.981401	1023758
1.0101010	1.505051	1.0680402	1.981841	1018263
1.0101010	1.525252	1.0656173	1.982282	1012445
1.0101010	1.545454	1.0631944	1.982722	1006273
1.0101010	1.565657	1.0607717	1.983163	999710
1.0101010	1.585859	1.0583491	1.983603	992716
1.0101010	1.606061	1.0559266	1.984044	985242
1.0101010	1.626263	1.0535043	1.984484	977233
1.0101010	1.646465	1.0510822	1.984925	968624
1.0101010	1.666667	1.0486603	1.985365	959336
1.0101010	1.686869	1.0462387	1.985805	949278
1.0101010	1.707071	1.0438173	1.986246	938339
1.0101010	1.727273	1.0413964	1.986686	926380
1.0101010	1.747475	1.0389759	1.987126	913234

1.0101010	1.767677	1.0365559	1.987566	898688
1.0101010	1.787879	1.0341366	1.988006	882469
1.0101010	1.808081	1.0317183	1.988445	864219
1.0101010	1.828283	1.0293010	1.988885	843456
1.0101010	1.848485	1.0268853	1.989324	819512
1.0101010	1.868687	1.0244717	1.989763	791418
1.0101010	1.888889	1.0220609	1.990201	757695
1.0101010	1.909091	1.0196547	1.990639	715924
1.0101010	1.929293	1.0172556	1.991075	661729
1.0101010	1.949495	1.0148699	1.991509	585855
1.0101010	1.969697	1.0125153	1.991937	462354
1.0101010	1.989899	1.0103082	1.992338	128192
1.0101010	2.010101	1.0078526	1.996421	736260
1.0101010	2.030303	1.0053011	1.996885	897588
1.0101010	2.050505	1.0028173	1.997336	971860
1.0101010	2.070707	1.0003565	1.997784	1017075
1.0101010	2.090909	0.9979071	1.998229	1048106
1.0101010	2.111111	0.9954645	1.998673	1070935
1.0101010	2.131313	0.9930261	1.999117	1088523
1.0101010	2.151515	0.9905906	1.999559	1102530
1.0101010	2.171717	0.9881573	2.000002	1113973
1.0101010	2.191919	0.9857255	2.000444	1123507
1.0101010	2.212121	0.9832950	2.000886	1131582
1.0101010	2.232323	0.9808654	2.001328	1138513
1.0101010	2.252525	0.9784366	2.001769	1144530
1.0101010	2.272727	0.9760084	2.002211	1149804
1.0101010	2.292929	0.9735807	2.002652	1154467
1.0101010	2.313131	0.9711535	2.003093	1158619
1.0101010	2.333333	0.9687266	2.003535	1162341
1.0101010	2.353535	0.9663000	2.003976	1165697
1.0101010	2.373737	0.9638737	2.004417	1168739
1.0101010	2.393939	0.9614476	2.004858	1171509
1.0101010	2.414141	0.9590217	2.005299	1174042
1.0101010	2.434343	0.9565960	2.005740	1176368
1.0101010	2.454546	0.9541705	2.006181	1178511
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1.0101010	2.494950	0.9493198	2.007063	1182328
1.0101010	2.515151	0.9468946	2.007504	1184036
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1.0101010	2.575758	0.9396196	2.008827	1188508
1.0101010	2.595960	0.9371948	2.009268	1189815
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1.0101010	2.636364	0.9323453	2.010149	1192203
1.0101010	2.656566	0.9299206	2.010590	1193296
1.0101010	2.676768	0.9274960	2.011031	1194329
1.0101010	2.696970	0.9250715	2.011472	1195307
1.0101010	2.717172	0.9226470	2.011913	1196235
1.0101010	2.737374	0.9202225	2.012354	1197115
1.0101010	2.757576	0.9177980	2.012794	1197953

1.0101010	2.777778	0.9153736	2.013235	1198750
1.0101010	2.797980	0.9129493	2.013676	1199509
1.0101010	2.818182	0.9105249	2.014117	1200234
1.0101010	2.838384	0.9081006	2.014558	1200926
1.0101010	2.858586	0.9056763	2.014998	1201588
1.0101010	2.878788	0.9032521	2.015439	1202221
1.0101010	2.898990	0.9008278	2.015880	1202828
1.0101010	2.919192	0.8984036	2.016321	1203410
1.0101010	2.939394	0.8959794	2.016761	1203968
1.0101010	2.959596	0.8935552	2.017202	1204505
1.0101010	2.979798	0.8911311	2.017643	1205020
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1.0303030	1.000000	1.1480472	1.967295	1081579
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1.0303030	1.040404	1.1432010	1.968176	1077000
1.0303030	1.060606	1.1407780	1.968616	1074599
1.0303030	1.080808	1.1383550	1.969057	1072119
1.0303030	1.101010	1.1359320	1.969497	1069556
1.0303030	1.121212	1.1335091	1.969938	1066905
1.0303030	1.141414	1.1310862	1.970378	1064162
1.0303030	1.161616	1.1286634	1.970819	1061321
1.0303030	1.181818	1.1262406	1.971259	1058376
1.0303030	1.202020	1.1238178	1.971700	1055323
1.0303030	1.222222	1.1213951	1.972141	1052154
1.0303030	1.242424	1.1189724	1.972581	1048862
1.0303030	1.262626	1.1165499	1.973021	1045439
1.0303030	1.282828	1.1141273	1.973462	1041878
1.0303030	1.303030	1.1117049	1.973902	1038169
1.0303030	1.323232	1.1092825	1.974343	1034302
1.0303030	1.343434	1.1068602	1.974783	1030267
1.0303030	1.363636	1.1044380	1.975224	1026051
1.0303030	1.383838	1.1020158	1.975664	1021641
1.0303030	1.404040	1.0995938	1.976104	1017022
1.0303030	1.424242	1.0971719	1.976545	1012179
1.0303030	1.444444	1.0947502	1.976985	1007093
1.0303030	1.464646	1.0923285	1.977425	1001744
1.0303030	1.484849	1.0899071	1.977866	996110
1.0303030	1.505051	1.0874858	1.978306	990165
1.0303030	1.525252	1.0850647	1.978746	983880
1.0303030	1.545454	1.0826438	1.979186	977222
1.0303030	1.565657	1.0802231	1.979626	970156
1.0303030	1.585859	1.0778027	1.980066	962636
1.0303030	1.606061	1.0753826	1.980506	954614
1.0303030	1.626263	1.0729629	1.980946	946033
1.0303030	1.646465	1.0705436	1.981386	936823
1.0303030	1.666667	1.0681248	1.981826	926905
1.0303030	1.686869	1.0657064	1.982266	916184
1.0303030	1.707071	1.0632888	1.982705	904542
1.0303030	1.727273	1.0608718	1.983145	891839
1.0303030	1.747475	1.0584558	1.983584	877897

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1.0303030	1.808081	1.0512152	1.984900	826087
1.0303030	1.828283	1.0488054	1.985339	804196
1.0303030	1.848485	1.0463983	1.985776	778974
1.0303030	1.868687	1.0439950	1.986213	749388
1.0303030	1.888889	1.0415969	1.986649	713856
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1.0303030	1.949495	1.0344753	1.987944	530755
1.0303030	1.969697	1.0321784	1.988362	393779
1.0303030	1.989899	1.0303030	1.989899	0
1.0303030	2.010101	1.0271712	1.993281	937261
1.0303030	2.030303	1.0245495	1.993668	1109580
1.0303030	2.050505	1.0220164	1.994043	1206569
1.0303030	2.070707	1.0195189	1.994412	1274637
1.0303030	2.090909	1.0170409	1.994778	1327271
1.0303030	2.111111	1.0146187	1.995191	1326591
1.0303030	2.131313	1.0122120	1.995628	1310220
1.0303030	2.151515	1.0098003	1.996067	1298667
1.0303030	2.171717	1.0073855	1.996506	1290072
1.0303030	2.191919	1.0049687	1.996945	1283425
1.0303030	2.212121	1.0025506	1.997385	1278129
1.0303030	2.232323	1.0001313	1.997825	1273810
1.0303030	2.252525	0.9977114	1.998265	1270219
1.0303030	2.272727	0.9952908	1.998705	1267187
1.0303030	2.292929	0.9928698	1.999145	1264593
1.0303030	2.313131	0.9904484	1.999585	1262347
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1.0303030	2.353535	0.9856048	2.000466	1258655
1.0303030	2.373737	0.9831827	2.000906	1257118
1.0303030	2.393939	0.9807604	2.001347	1255745
1.0303030	2.414141	0.9783380	2.001787	1254509
1.0303030	2.434343	0.9759155	2.002228	1253392
1.0303030	2.454546	0.9734928	2.002668	1252377
1.0303030	2.474747	0.9710701	2.003109	1251450
1.0303030	2.494950	0.9686472	2.003549	1250602
1.0303030	2.515151	0.9662243	2.003990	1249821
1.0303030	2.535353	0.9638014	2.004430	1249101
1.0303030	2.555556	0.9613783	2.004871	1248434
1.0303030	2.575758	0.9589553	2.005311	1247815
1.0303030	2.595960	0.9565321	2.005752	1247239
1.0303030	2.616162	0.9541090	2.006192	1246701
1.0303030	2.636364	0.9516858	2.006633	1246198
1.0303030	2.656566	0.9492626	2.007074	1245727
1.0303030	2.676768	0.9468393	2.007514	1245285
1.0303030	2.696970	0.9444160	2.007955	1244868
1.0303030	2.717172	0.9419927	2.008395	1244476
1.0303030	2.737374	0.9395694	2.008836	1244105
1.0303030	2.757576	0.9371460	2.009277	1243754

1.0303030	2.777778	0.9347227	2.009717	1243422
1.0303030	2.797980	0.9322993	2.010158	1243107
1.0303030	2.818182	0.9298759	2.010598	1242808
1.0303030	2.838384	0.9274524	2.011039	1242523
1.0303030	2.858586	0.9250290	2.011480	1242252
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1.0303030	2.939394	0.9153351	2.013242	1241286
1.0303030	2.959596	0.9129116	2.013683	1241070
1.0303030	2.979798	0.9104881	2.014124	1240863
1.0303030	3.000000	0.9080646	2.014564	1240665
1.0505051	1.000000	1.1674768	1.963762	1063018
1.0505051	1.020202	1.1650543	1.964202	1060569
1.0505051	1.040404	1.1626320	1.964643	1058044
1.0505051	1.060606	1.1602097	1.965083	1055439
1.0505051	1.080808	1.1577874	1.965524	1052750
1.0505051	1.101010	1.1553653	1.965964	1049973
1.0505051	1.121212	1.1529431	1.966405	1047104
1.0505051	1.141414	1.1505211	1.966845	1044136
1.0505051	1.161616	1.1480991	1.967285	1041066
1.0505051	1.181818	1.1456772	1.967726	1037887
1.0505051	1.202020	1.1432554	1.968166	1034593
1.0505051	1.222222	1.1408337	1.968606	1031177
1.0505051	1.242424	1.1384120	1.969046	1027632
1.0505051	1.262626	1.1359905	1.969487	1023950
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1.0505051	1.323232	1.1287267	1.970807	1011991
1.0505051	1.343434	1.1263056	1.971248	1007666
1.0505051	1.363636	1.1238848	1.971688	1003153
1.0505051	1.383838	1.1214641	1.972128	998436
1.0505051	1.404040	1.1190435	1.972568	993502
1.0505051	1.424242	1.1166232	1.973008	988333
1.0505051	1.444444	1.1142031	1.973448	982911
1.0505051	1.464646	1.1117832	1.973888	977215
1.0505051	1.484849	1.1093636	1.974328	971222
1.0505051	1.505051	1.1069442	1.974768	964905
1.0505051	1.525252	1.1045252	1.975208	958235
1.0505051	1.545454	1.1021065	1.975648	951179
1.0505051	1.565657	1.0996882	1.976087	943697
1.0505051	1.585859	1.0972703	1.976527	935746
1.0505051	1.606061	1.0948530	1.976966	927274
1.0505051	1.626263	1.0924362	1.977406	918221
1.0505051	1.646465	1.0900200	1.977845	908519
1.0505051	1.666667	1.0876046	1.978284	898083
1.0505051	1.686869	1.0851900	1.978723	886814
1.0505051	1.707071	1.0827763	1.979162	874593
1.0505051	1.727273	1.0803639	1.979601	861273
1.0505051	1.747475	1.0779528	1.980039	846671

1.0505051	1.767677	1.0755434	1.980477	830556
1.0505051	1.787879	1.0731359	1.980915	812631
1.0505051	1.808081	1.0707310	1.981352	792504
1.0505051	1.828283	1.0683293	1.981789	769644
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1.0505051	1.868687	1.0635397	1.982660	712387
1.0505051	1.888889	1.0611556	1.983093	675195
1.0505051	1.909091	1.0587832	1.983524	628872
1.0505051	1.929293	1.0564299	1.983952	568052
1.0505051	1.949495	1.0541127	1.984374	480637
1.0505051	1.969697	1.0518874	1.984778	327661
1.0505051	1.989899	1.0504272	1.989846	46936
1.0505051	2.010101	1.0466304	1.990406	962426
1.0505051	2.030303	1.0439731	1.990799	1116566
1.0505051	2.050505	1.0414135	1.991177	1207713
1.0505051	2.070707	1.0388953	1.991549	1272878
1.0505051	2.090909	1.0364007	1.991918	1323763
1.0505051	2.111111	1.0339214	1.992284	1365600
1.0505051	2.131313	1.0314530	1.992649	1401190
1.0505051	2.151515	1.0289927	1.993012	1432204
1.0505051	2.171717	1.0265390	1.993375	1459723
1.0505051	2.191919	1.0240905	1.993736	1484486
1.0505051	2.212121	1.0216463	1.994097	1507019
1.0505051	2.232323	1.0192058	1.994458	1527711
1.0505051	2.252525	1.0167685	1.994818	1546859
1.0505051	2.272727	1.0143826	1.995234	1515254
1.0505051	2.292929	1.0119983	1.995667	1480715
1.0505051	2.313131	1.0096051	1.996102	1454195
1.0505051	2.333333	1.0072059	1.996538	1433072
1.0505051	2.353535	1.0048023	1.996976	1415788
1.0505051	2.373737	1.0023955	1.997413	1401347
1.0505051	2.393939	0.9999861	1.997851	1389079
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1.0505051	2.474747	0.9903327	1.999606	1354047
1.0505051	2.494950	0.9879165	2.000046	1347637
1.0505051	2.515151	0.9854997	2.000485	1341875
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1.0505051	2.555556	0.9806641	2.001364	1331931
1.0505051	2.575758	0.9782456	2.001804	1327609
1.0505051	2.595960	0.9758266	2.002244	1323648
1.0505051	2.616162	0.9734072	2.002684	1320003
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1.0505051	2.676768	0.9661473	2.004004	1310624
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1.0505051	2.717172	0.9613061	2.004884	1305408
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1.0505051	2.818182	0.9492001	2.007085	1294958
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1.0505051	2.919192	0.9370910	2.009287	1287099
1.0505051	2.939394	0.9346689	2.009727	1285755
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1.0707071	1.060606	1.1796496	1.961549	1037677
1.0707071	1.080808	1.1772282	1.961989	1034808
1.0707071	1.101010	1.1748069	1.962429	1031847
1.0707071	1.121212	1.1723857	1.962869	1028789
1.0707071	1.141414	1.1699647	1.963310	1025629
1.0707071	1.161616	1.1675437	1.963750	1022361
1.0707071	1.181818	1.1651228	1.964190	1018980
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1.0707071	1.282828	1.1530205	1.966390	1000130
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1.0707071	1.323232	1.1481807	1.967270	991525
1.0707071	1.343434	1.1457611	1.967710	986954
1.0707071	1.363636	1.1433418	1.968150	982187
1.0707071	1.383838	1.1409226	1.968590	977209
1.0707071	1.404040	1.1385037	1.969030	972007
1.0707071	1.424242	1.1360851	1.969469	966561
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1.0707071	1.484849	1.1288313	1.970788	948567
1.0707071	1.505051	1.1264141	1.971228	941936
1.0707071	1.525252	1.1239974	1.971667	934941
1.0707071	1.545454	1.1215811	1.972107	927546
1.0707071	1.565657	1.1191654	1.972546	919714
1.0707071	1.585859	1.1167503	1.972985	911397
1.0707071	1.606061	1.1143359	1.973424	902543
1.0707071	1.626263	1.1119223	1.973863	893092
1.0707071	1.646465	1.1095096	1.974301	882970
1.0707071	1.666667	1.1070978	1.974740	872094
1.0707071	1.686869	1.1046873	1.975178	860359
1.0707071	1.707071	1.1022781	1.975616	847642
1.0707071	1.727273	1.0998705	1.976054	833792
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1.0707071	2.030303	1.0633931	1.987930	1122778
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1.0707071	2.434343	1.0142212	1.995263	1613754
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1.0707071	2.474747	1.0094589	1.996129	1543692
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1.0909091	1.525252	1.1434801	1.968125	913576
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1.0909091	1.565657	1.1386535	1.969003	897753
1.0909091	1.585859	1.1362414	1.969441	889119
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1.0909091	1.626263	1.1314200	1.970318	870136
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1.1717172	1.525252	1.2214992	1.953940	842051
1.1717172	1.545454	1.2190975	1.954376	833472
1.1717172	1.565657	1.2166973	1.954813	824404
1.1717172	1.585859	1.2142987	1.955249	814796
1.1717172	1.606061	1.2119019	1.955685	804588
1.1717172	1.626263	1.2095071	1.956120	793710
1.1717172	1.646465	1.2071147	1.956555	782080
1.1717172	1.666667	1.2047250	1.956990	769599
1.1717172	1.686869	1.2023382	1.957423	756150
1.1717172	1.707071	1.1999550	1.957857	741587
1.1717172	1.727273	1.1975760	1.958289	725731
1.1717172	1.747475	1.1952018	1.958721	708356

1.1717172	1.767677	1.1928336	1.959152	689172
1.1717172	1.787879	1.1904726	1.959581	667796
1.1717172	1.808081	1.1881205	1.960009	643715
1.1717172	1.828283	1.1857800	1.960434	616208
1.1717172	1.848485	1.1834547	1.960857	584224
1.1717172	1.868687	1.1811504	1.961276	546147
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1.1717172	1.909091	1.1766512	1.962094	438671
1.1717172	1.929293	1.1745138	1.962482	353358
1.1717172	1.949495	1.1725860	1.962833	210056
1.1717172	1.969697	1.1695381	1.971795	647467
1.1717172	1.989899	1.1662771	1.972731	883583
1.1717172	2.010101	1.1632313	1.973181	1050610
1.1717172	2.030303	1.1604546	1.973591	1145789
1.1717172	2.050505	1.1577845	1.973986	1212830
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1.1717172	2.131313	1.1475160	1.975503	1374306
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1.1717172	2.171717	1.1424942	1.976245	1426690
1.1717172	2.191919	1.1399984	1.976614	1449182
1.1717172	2.212121	1.1375106	1.976981	1469793
1.1717172	2.232323	1.1350294	1.977348	1488826
1.1717172	2.252525	1.1325539	1.977713	1506518
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1.1717172	2.292929	1.1276174	1.978443	1538591
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1.1717172	2.373737	1.1177886	1.979894	1592866
1.1717172	2.393939	1.1153386	1.980256	1604868
1.1717172	2.414141	1.1128911	1.980618	1616363
1.1717172	2.434343	1.1104458	1.980979	1627396
1.1717172	2.454546	1.1080025	1.981340	1638008
1.1717172	2.474747	1.1055612	1.981701	1648234
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1.1717172	2.595960	1.0909471	1.983860	1702984
1.1717172	2.616162	1.0885162	1.984219	1711204
1.1717172	2.636364	1.0860866	1.984578	1719210
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1.1717172	2.676768	1.0812306	1.985295	1734632
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1.1717172	2.838384	1.0618451	1.988159	1789916
1.1717172	2.858586	1.0594256	1.988516	1796237
1.1717172	2.878788	1.0570069	1.988874	1802449
1.1717172	2.898990	1.0545889	1.989231	1808556
1.1717172	2.919192	1.0521716	1.989588	1814563
1.1717172	2.939394	1.0497550	1.989945	1820475
1.1717172	2.959596	1.0473390	1.990302	1826295
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1.1919192	1.080808	1.2940175	1.940755	948073
1.1919192	1.101010	1.2916032	1.941194	944364
1.1919192	1.121212	1.2891891	1.941633	940542
1.1919192	1.141414	1.2867754	1.942071	936603
1.1919192	1.161616	1.2843621	1.942510	932540
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1.1919192	1.202020	1.2795366	1.943388	924015
1.1919192	1.222222	1.2771245	1.943826	919538
1.1919192	1.242424	1.2747129	1.944265	914907
1.1919192	1.262626	1.2723017	1.944703	910113
1.1919192	1.282828	1.2698911	1.945141	905146
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1.1919192	1.323232	1.2650716	1.946017	894649
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1.1919192	1.383838	1.2578474	1.947331	877299
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1.1919192	1.464646	1.2482269	1.949080	850469
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1.1919192	1.525252	1.2410232	1.950390	826758
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1.1919192	1.585859	1.2338331	1.951697	798936
1.1919192	1.606061	1.2314403	1.952132	788518
1.1919192	1.626263	1.2290498	1.952567	777417
1.1919192	1.646465	1.2266619	1.953001	765548
1.1919192	1.666667	1.2242771	1.953435	752811
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1.1919192	1.707071	1.2195185	1.954300	724216
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1.1919192	1.848485	1.2030862	1.957288	562962
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1.1919192	1.909091	1.1963572	1.958511	411487
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1.1919192	1.949495	1.1924628	1.959219	160905
1.1919192	1.969697	1.1908051	1.969108	250209
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1.1919192	2.010101	1.1826499	1.970313	1059717
1.1919192	2.030303	1.1798615	1.970725	1149254
1.1919192	2.050505	1.1771784	1.971121	1213473
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1.1919192	2.090909	1.1719678	1.971891	1304964
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1.1919192	2.151515	1.1643431	1.973017	1397768
1.1919192	2.171717	1.1618303	1.973388	1422143
1.1919192	2.191919	1.1593276	1.973758	1444300
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1.1919192	2.616162	1.1077548	1.981377	1703561
1.1919192	2.636364	1.1053222	1.981736	1711495
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1.1919192	2.919192	1.0713705	1.986752	1805920
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1.2121212	2.575758	1.1318731	1.977814	1679862
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1.2323232	1.020202	1.3402302	1.932352	935707
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1.2323232	1.282828	1.3088986	1.938049	879902
1.2323232	1.303030	1.3064924	1.938486	874538
1.2323232	1.323232	1.3040871	1.938924	868973
1.2323232	1.343434	1.3016825	1.939361	863193
1.2323232	1.363636	1.2992788	1.939798	857183
1.2323232	1.383838	1.2968760	1.940235	850928
1.2323232	1.404040	1.2944743	1.940672	844408
1.2323232	1.424242	1.2920737	1.941108	837605
1.2323232	1.444444	1.2896743	1.941544	830496
1.2323232	1.464646	1.2872761	1.941980	823056
1.2323232	1.484849	1.2848794	1.942416	815256
1.2323232	1.505051	1.2824843	1.942852	807066
1.2323232	1.525252	1.2800909	1.943287	798448
1.2323232	1.545454	1.2776993	1.943722	789363
1.2323232	1.565657	1.2753099	1.944156	779761
1.2323232	1.585859	1.2729228	1.944590	769590
1.2323232	1.606061	1.2705383	1.945024	758784
1.2323232	1.626263	1.2681568	1.945457	747269
1.2323232	1.646465	1.2657785	1.945889	734955
1.2323232	1.666667	1.2634041	1.946321	721736
1.2323232	1.686869	1.2610341	1.946752	707482
1.2323232	1.707071	1.2586692	1.947182	692034
1.2323232	1.727273	1.2563102	1.947610	675193
1.2323232	1.747475	1.2539584	1.948038	656708

1.2323232	1.767677	1.2516152	1.948464	636251
1.2323232	1.787879	1.2492826	1.948888	613387
1.2323232	1.808081	1.2469633	1.949310	587522
1.2323232	1.828283	1.2446612	1.949728	557808
1.2323232	1.848485	1.2423823	1.950143	522983
1.2323232	1.868687	1.2401357	1.950551	481039
1.2323232	1.888889	1.2379380	1.950951	428496
1.2323232	1.909091	1.2358215	1.951336	358476
1.2323232	1.929293	1.2338666	1.951691	254017
1.2323232	1.949495	1.2324007	1.951958	46749
1.2323232	1.969697	1.2283841	1.963556	649072
1.2323232	1.989899	1.2245047	1.964130	950697
1.2323232	2.010101	1.2214796	1.964576	1075326
1.2323232	2.030303	1.2186713	1.964991	1155395
1.2323232	2.050505	1.2159652	1.965391	1214633
1.2323232	2.070707	1.2133191	1.965782	1261750
1.2323232	2.090909	1.2107126	1.966167	1300928
1.2323232	2.111111	1.2081344	1.966548	1334500
1.2323232	2.131313	1.2055774	1.966926	1363901
1.2323232	2.151515	1.2030369	1.967301	1390078
1.2323232	2.171717	1.2005097	1.967674	1413688
1.2323232	2.191919	1.1979935	1.968046	1435207
1.2323232	2.212121	1.1954864	1.968416	1454987
1.2323232	2.232323	1.1929872	1.968786	1473302
1.2323232	2.252525	1.1904947	1.969154	1490362
1.2323232	2.272727	1.1880082	1.969521	1506339
1.2323232	2.292929	1.1855268	1.969888	1521368
1.2323232	2.313131	1.1830501	1.970254	1535564
1.2323232	2.333333	1.1805775	1.970619	1549021
1.2323232	2.353535	1.1781087	1.970983	1561816
1.2323232	2.373737	1.1756433	1.971348	1574017
1.2323232	2.393939	1.1731810	1.971712	1585683
1.2323232	2.414141	1.1707215	1.972075	1596861
1.2323232	2.434343	1.1682647	1.972438	1607595
1.2323232	2.454546	1.1658103	1.972800	1617923
1.2323232	2.474747	1.1633581	1.973163	1627878
1.2323232	2.494950	1.1609081	1.973524	1637488
1.2323232	2.515151	1.1584600	1.973886	1646781
1.2323232	2.535353	1.1560138	1.974248	1655779
1.2323232	2.555556	1.1535693	1.974609	1664502
1.2323232	2.575758	1.1511264	1.974970	1672971
1.2323232	2.595960	1.1486851	1.975330	1681201
1.2323232	2.616162	1.1462452	1.975691	1689207
1.2323232	2.636364	1.1438068	1.976051	1697004
1.2323232	2.656566	1.1413696	1.976411	1704605
1.2323232	2.676768	1.1389337	1.976771	1712020
1.2323232	2.696970	1.1364990	1.977130	1719261
1.2323232	2.717172	1.1340655	1.977490	1726337
1.2323232	2.737374	1.1316330	1.977849	1733258
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1.2323232	2.797980	1.1243418	1.978926	1753164
1.2323232	2.818182	1.1219133	1.979285	1759538
1.2323232	2.838384	1.1194856	1.979644	1765793
1.2323232	2.858586	1.1170589	1.980002	1771933
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1.2323232	2.898990	1.1122079	1.980719	1783892
1.2323232	2.919192	1.1097836	1.981077	1789720
1.2323232	2.939394	1.1073601	1.981435	1795454
1.2323232	2.959596	1.1049373	1.981793	1801097
1.2323232	2.979798	1.1025152	1.982151	1806653
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1.2525253	1.383838	1.3163988	1.936685	838637
1.2525253	1.404040	1.3139996	1.937121	832005
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1.2525253	1.444444	1.3092049	1.937993	817856
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1.2525253	1.565657	1.2948605	1.940601	766272
1.2525253	1.585859	1.2924774	1.941035	755930
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1.2525253	1.646465	1.2853472	1.942331	720708
1.2525253	1.666667	1.2829783	1.942762	707259
1.2525253	1.686869	1.2806142	1.943192	692753
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1.2525253	2.595960	1.1679393	1.972486	1674511
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1.2525253	2.696970	1.1557393	1.974288	1712259
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1.2525253	2.878788	1.1338513	1.977522	1770459
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1.2727273	1.202020	1.3575434	1.929204	877202
1.2727273	1.222222	1.3551382	1.929642	872364
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1.2727273	1.262626	1.3503300	1.930516	862189
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1.2727273	1.606061	1.3096625	1.937910	731690
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1.2727273	1.666667	1.3025591	1.939202	693389
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1.2727273	1.848485	1.2817211	1.942990	485604
1.2727273	1.868687	1.2795197	1.943391	440789
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1.2727273	1.929293	1.2735794	1.944471	183514
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1.2727273	2.030303	1.2574770	1.959259	1160672
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1.2727273	2.818182	1.1603680	1.973604	1745133
1.2727273	2.838384	1.1579357	1.973964	1751281
1.2727273	2.858586	1.1555043	1.974323	1757316
1.2727273	2.878788	1.1530739	1.974682	1763243
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1.2727273	2.959596	1.1433604	1.976117	1785964
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1.2929293	1.020202	1.3987162	1.921719	904797
1.2929293	1.040404	1.3963075	1.922156	901029
1.2929293	1.060606	1.3938993	1.922594	897157
1.2929293	1.080808	1.3914915	1.923032	893177
1.2929293	1.101010	1.3890843	1.923470	889082
1.2929293	1.121212	1.3866777	1.923907	884867
1.2929293	1.141414	1.3842716	1.924345	880527
1.2929293	1.161616	1.3818662	1.924782	876053
1.2929293	1.181818	1.3794614	1.925219	871441
1.2929293	1.202020	1.3770573	1.925657	866681
1.2929293	1.222222	1.3746539	1.926093	861765
1.2929293	1.242424	1.3722513	1.926530	856685
1.2929293	1.262626	1.3698496	1.926967	851430
1.2929293	1.282828	1.3674487	1.927404	845991
1.2929293	1.303030	1.3650488	1.927840	840355
1.2929293	1.323232	1.3626499	1.928276	834509
1.2929293	1.343434	1.3602521	1.928712	828440
1.2929293	1.363636	1.3578555	1.929148	822132
1.2929293	1.383838	1.3554601	1.929583	815568
1.2929293	1.404040	1.3530660	1.930019	808729
1.2929293	1.424242	1.3506735	1.930454	801595
1.2929293	1.444444	1.3482825	1.930888	794141
1.2929293	1.464646	1.3458933	1.931323	786342
1.2929293	1.484849	1.3435059	1.931757	778167
1.2929293	1.505051	1.3411206	1.932190	769583
1.2929293	1.525252	1.3387376	1.932624	760552
1.2929293	1.545454	1.3363572	1.933056	751030
1.2929293	1.565657	1.3339795	1.933489	740966
1.2929293	1.585859	1.3316049	1.933921	730302
1.2929293	1.606061	1.3292338	1.934352	718968
1.2929293	1.626263	1.3268666	1.934782	706885
1.2929293	1.646465	1.3245039	1.935212	693955
1.2929293	1.666667	1.3221464	1.935640	680062
1.2929293	1.686869	1.3197947	1.936068	665064
1.2929293	1.707071	1.3174498	1.936494	648786
1.2929293	1.727273	1.3151131	1.936919	631008
1.2929293	1.747475	1.3127861	1.937342	611447

1.2929293	1.767677	1.3104709	1.937763	589733
1.2929293	1.787879	1.3081704	1.938181	565369
1.2929293	1.808081	1.3058884	1.938596	537660
1.2929293	1.828283	1.3036307	1.939007	505602
1.2929293	1.848485	1.3014063	1.939411	467656
1.2929293	1.868687	1.2992297	1.939807	421291
1.2929293	1.888889	1.2971278	1.940189	361886
1.2929293	1.909091	1.2951586	1.940547	279523
1.2929293	1.929293	1.2934908	1.940850	145498
1.2929293	1.949495	1.2869670	1.954448	1095127
1.2929293	1.969697	1.2862310	1.955011	811654
1.2929293	1.989899	1.2827242	1.955529	994196
1.2929293	2.010101	1.2797099	1.955974	1093904
1.2929293	2.030303	1.2768785	1.956392	1163042
1.2929293	2.050505	1.2741439	1.956797	1216113
1.2929293	2.070707	1.2714695	1.957192	1259254
1.2929293	2.090909	1.2688363	1.957581	1295644
1.2929293	2.111111	1.2662333	1.957965	1327145
1.2929293	2.131313	1.2636532	1.958346	1354941
1.2929293	2.151515	1.2610912	1.958725	1379832
1.2929293	2.171717	1.2585440	1.959101	1402384
1.2929293	2.191919	1.2560089	1.959476	1423014
1.2929293	2.212121	1.2534842	1.959849	1442034
1.2929293	2.232323	1.2509683	1.960220	1459688
1.2929293	2.252525	1.2484600	1.960591	1476167
1.2929293	2.272727	1.2459584	1.960960	1491626
1.2929293	2.292929	1.2434627	1.961329	1506190
1.2929293	2.313131	1.2409722	1.961697	1519964
1.2929293	2.333333	1.2384865	1.962064	1533033
1.2929293	2.353535	1.2360051	1.962431	1545473
1.2929293	2.373737	1.2335276	1.962797	1557344
1.2929293	2.393939	1.2310536	1.963162	1568701
1.2929293	2.414141	1.2285828	1.963527	1579590
1.2929293	2.434343	1.2261151	1.963892	1590052
1.2929293	2.454546	1.2236501	1.964256	1600121
1.2929293	2.474747	1.2211877	1.964620	1609831
1.2929293	2.494950	1.2187277	1.964983	1619207
1.2929293	2.515151	1.2162700	1.965346	1628275
1.2929293	2.535353	1.2138143	1.965709	1637057
1.2929293	2.555556	1.2113606	1.966071	1645573
1.2929293	2.575758	1.2089088	1.966433	1653840
1.2929293	2.595960	1.2064587	1.966795	1661875
1.2929293	2.616162	1.2040103	1.967157	1669692
1.2929293	2.636364	1.2015634	1.967519	1677305
1.2929293	2.656566	1.1991181	1.967880	1684725
1.2929293	2.676768	1.1966742	1.968241	1691965
1.2929293	2.696970	1.1942316	1.968602	1699033
1.2929293	2.717172	1.1917903	1.968962	1705940
1.2929293	2.737374	1.1893503	1.969323	1712694
1.2929293	2.757576	1.1869114	1.969683	1719303

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1.2929293	2.797980	1.1820370	1.970403	1732116
1.2929293	2.818182	1.1796014	1.970763	1738333
1.2929293	2.838384	1.1771668	1.971123	1744431
1.2929293	2.858586	1.1747332	1.971482	1750417
1.2929293	2.878788	1.1723005	1.971842	1756295
1.2929293	2.898990	1.1698688	1.972201	1762071
1.2929293	2.919192	1.1674378	1.972560	1767748
1.2929293	2.939394	1.1650078	1.972919	1773332
1.2929293	2.959596	1.1625785	1.973278	1778826
1.2929293	2.979798	1.1601501	1.973637	1784233
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1.3131313	1.101010	1.4085941	1.919922	879293
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1.3131313	1.303030	1.3845772	1.924289	829841
1.3131313	1.323232	1.3821806	1.924725	823912
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1.3131313	1.363636	1.3773909	1.925596	811358
1.3131313	1.383838	1.3749981	1.926031	804701
1.3131313	1.404040	1.3726068	1.926466	797766
1.3131313	1.424242	1.3702170	1.926900	790531
1.3131313	1.444444	1.3678290	1.927334	782973
1.3131313	1.464646	1.3654429	1.927768	775064
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1.3131313	1.505051	1.3606770	1.928635	758069
1.3131313	1.525252	1.3582976	1.929067	748910
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1.3131313	1.565657	1.3535474	1.929931	729044
1.3131313	1.585859	1.3511773	1.930362	718225
1.3131313	1.606061	1.3488109	1.930792	706726
1.3131313	1.626263	1.3464488	1.931222	694462
1.3131313	1.646465	1.3440915	1.931650	681335
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1.3131313	1.686869	1.3393946	1.932504	651986
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1.3131313	1.727273	1.3347282	1.933353	617348
1.3131313	1.747475	1.3324100	1.933774	597428

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1.3131313	1.787879	1.3278158	1.934610	550410
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1.3131313	1.828283	1.3233060	1.935429	489174
1.3131313	1.848485	1.3211019	1.935830	450101
1.3131313	1.868687	1.3189519	1.936221	402097
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1.3131313	1.909091	1.3149797	1.936943	252619
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1.3131313	2.010101	1.2991171	1.953107	1099123
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1.3131313	2.131313	1.2830145	1.955486	1352223
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1.3131313	2.212121	1.2728210	1.956992	1438065
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1.3131313	2.515151	1.2355465	1.962498	1622553
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1.3131313	2.575758	1.2281764	1.963587	1647923
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1.3131313	2.636364	1.2208228	1.964673	1671211
1.3131313	2.656566	1.2183748	1.965035	1678576
1.3131313	2.676768	1.2159283	1.965397	1685761
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1.3131313	2.858586	1.1939660	1.968641	1743767
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1.3131313	2.898990	1.1890972	1.969360	1755329
1.3131313	2.919192	1.1866641	1.969720	1760961
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1.3333333	1.989899	1.3215326	1.949796	1015896
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1.3333333	2.676768	1.2351857	1.962552	1679773
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1.3333333	2.717172	1.2302919	1.963275	1693542
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1.3333333	2.838384	1.2156404	1.965439	1731456
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1.3333333	2.898990	1.2083293	1.966519	1748824
1.3333333	2.919192	1.2058942	1.966879	1754412
1.3333333	2.939394	1.2034600	1.967238	1759908
1.3333333	2.959596	1.2010266	1.967598	1765314
1.3333333	2.979798	1.1985941	1.967957	1770634
1.3333333	3.000000	1.1961624	1.968317	1775873
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1.3535354	1.040404	1.4548351	1.911515	873203
1.3535354	1.060606	1.4524314	1.911952	869157
1.3535354	1.080808	1.4500282	1.912389	864999
1.3535354	1.101010	1.4476258	1.912826	860723
1.3535354	1.121212	1.4452240	1.913263	856323
1.3535354	1.141414	1.4428230	1.913699	851794
1.3535354	1.161616	1.4404227	1.914135	847127
1.3535354	1.181818	1.4380233	1.914572	842316
1.3535354	1.202020	1.4356248	1.915008	837353
1.3535354	1.222222	1.4332272	1.915444	832229
1.3535354	1.242424	1.4308306	1.915880	826935
1.3535354	1.262626	1.4284350	1.916315	821460
1.3535354	1.282828	1.4260406	1.916750	815794
1.3535354	1.303030	1.4236474	1.917186	809924
1.3535354	1.323232	1.4212554	1.917620	803837
1.3535354	1.343434	1.4188648	1.918055	797519
1.3535354	1.363636	1.4164757	1.918489	790952
1.3535354	1.383838	1.4140882	1.918924	784121
1.3535354	1.404040	1.4117024	1.919357	777003
1.3535354	1.424242	1.4093185	1.919791	769579
1.3535354	1.444444	1.4069366	1.920224	761821
1.3535354	1.464646	1.4045568	1.920656	753704
1.3535354	1.484849	1.4021795	1.921089	745196
1.3535354	1.505051	1.3998048	1.921521	736260
1.3535354	1.525252	1.3974330	1.921952	726856
1.3535354	1.545454	1.3950644	1.922383	716938
1.3535354	1.565657	1.3926994	1.922812	706451
1.3535354	1.585859	1.3903383	1.923242	695333
1.3535354	1.606061	1.3879816	1.923670	683510
1.3535354	1.626263	1.3856300	1.924098	670893
1.3535354	1.646465	1.3832841	1.924524	657379
1.3535354	1.666667	1.3809448	1.924950	642841
1.3535354	1.686869	1.3786131	1.925374	627123
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1.3535354	1.727273	1.3739781	1.926216	591319
1.3535354	1.747475	1.3716785	1.926634	570670

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1.3535354	1.787879	1.3671301	1.927461	521725
1.3535354	1.808081	1.3648906	1.927869	492041
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1.3535354	1.929293	1.3535465	1.929931	9526
1.3535354	1.949495	1.3492946	1.945695	526106
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1.3535354	2.151515	1.3191592	1.950147	1370866
1.3535354	2.171717	1.3165936	1.950525	1392454
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1.3535354	2.272727	1.3039299	1.952396	1478551
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1.3535354	2.373737	1.2914368	1.954242	1542451
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1.3535354	2.454546	1.2815171	1.955707	1584188
1.3535354	2.474747	1.2790449	1.956073	1593672
1.3535354	2.494950	1.2765754	1.956437	1602834
1.3535354	2.515151	1.2741085	1.956802	1611697
1.3535354	2.535353	1.2716438	1.957166	1620283
1.3535354	2.555556	1.2691813	1.957530	1628609
1.3535354	2.575758	1.2667210	1.957893	1636694
1.3535354	2.595960	1.2642625	1.958256	1644553
1.3535354	2.616162	1.2618059	1.958619	1652200
1.3535354	2.636364	1.2593511	1.958982	1659646
1.3535354	2.656566	1.2568979	1.959344	1666906
1.3535354	2.676768	1.2544463	1.959706	1673988
1.3535354	2.696970	1.2519962	1.960068	1680902
1.3535354	2.717172	1.2495476	1.960430	1687659
1.3535354	2.737374	1.2471003	1.960792	1694265
1.3535354	2.757576	1.2446543	1.961153	1700729

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1.3535354	2.797980	1.2397661	1.961875	1713260
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1.3535354	2.858586	1.2324423	1.962957	1731152
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1.3535354	2.898990	1.2275650	1.963677	1742541
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1.3535354	2.979798	1.2178217	1.965117	1764187
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1.3737374	1.040404	1.4743520	1.907967	864534
1.3737374	1.060606	1.4719498	1.908403	860435
1.3737374	1.080808	1.4695483	1.908840	856224
1.3737374	1.101010	1.4671474	1.909276	851893
1.3737374	1.121212	1.4647474	1.909713	847438
1.3737374	1.141414	1.4623481	1.910149	842851
1.3737374	1.161616	1.4599497	1.910585	838125
1.3737374	1.181818	1.4575521	1.911021	833254
1.3737374	1.202020	1.4551555	1.911457	828229
1.3737374	1.222222	1.4527599	1.911892	823042
1.3737374	1.242424	1.4503654	1.912328	817682
1.3737374	1.262626	1.4479720	1.912763	812140
1.3737374	1.282828	1.4455798	1.913198	806405
1.3737374	1.303030	1.4431888	1.913633	800463
1.3737374	1.323232	1.4407993	1.914067	794302
1.3737374	1.343434	1.4384112	1.914501	787907
1.3737374	1.363636	1.4360247	1.914935	781261
1.3737374	1.383838	1.4336399	1.915369	774346
1.3737374	1.404040	1.4312570	1.915802	767143
1.3737374	1.424242	1.4288761	1.916235	759627
1.3737374	1.444444	1.4264973	1.916667	751776
1.3737374	1.464646	1.4241209	1.917099	743559
1.3737374	1.484849	1.4217470	1.917531	734945
1.3737374	1.505051	1.4193760	1.917962	725898
1.3737374	1.525252	1.4170081	1.918393	716376
1.3737374	1.545454	1.4146436	1.918823	706332
1.3737374	1.565657	1.4122830	1.919252	695710
1.3737374	1.585859	1.4099266	1.919680	684446
1.3737374	1.606061	1.4075750	1.920108	672464
1.3737374	1.626263	1.4052289	1.920534	659674
1.3737374	1.646465	1.4028889	1.920960	645969
1.3737374	1.666667	1.4005560	1.921384	631218
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1.3737374	1.707071	1.3959163	1.922227	597895
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1.3737374	1.787879	1.3867987	1.923885	507911
1.3737374	1.808081	1.3845746	1.924290	477528
1.3737374	1.828283	1.3823874	1.924687	441966
1.3737374	1.848485	1.3802517	1.925076	399177
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1.3737374	1.888889	1.3762650	1.925801	274143
1.3737374	1.909091	1.3745958	1.926104	167125
1.3737374	1.929293	1.3737374	1.929293	0
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1.3737374	1.989899	1.3603379	1.944063	1033723
1.3737374	2.010101	1.3573318	1.944507	1112590
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1.3737374	2.171717	1.3359464	1.947667	1389405
1.3737374	2.191919	1.3333886	1.948044	1408962
1.3737374	2.212121	1.3308423	1.948421	1427060
1.3737374	2.232323	1.3283059	1.948795	1443911
1.3737374	2.252525	1.3257781	1.949169	1459681
1.3737374	2.272727	1.3232578	1.949541	1474507
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1.3737374	2.353535	1.3132376	1.951021	1526360
1.3737374	2.373737	1.3107448	1.951390	1537828
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1.3737374	2.434343	1.3032897	1.952491	1569478
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1.3737374	2.515151	1.2933936	1.953953	1606541
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1.3737374	2.555556	1.2884607	1.954681	1623332
1.3737374	2.575758	1.2859976	1.955045	1631360
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1.3737374	2.838384	1.2541278	1.959753	1719349
1.3737374	2.858586	1.2516855	1.960114	1725159
1.3737374	2.878788	1.2492443	1.960475	1730863
1.3737374	2.898990	1.2468041	1.960835	1736467
1.3737374	2.919192	1.2443649	1.961196	1741974
1.3737374	2.939394	1.2419266	1.961556	1747388
1.3737374	2.959596	1.2394893	1.961916	1752714
1.3737374	2.979798	1.2370528	1.962276	1757955
1.3737374	3.000000	1.2346172	1.962636	1763115
1.3939394	1.000000	1.4986758	1.903544	864106
1.3939394	1.020202	1.4962738	1.903981	860172
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1.3939394	1.080808	1.4890720	1.905290	847722
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1.3939394	1.141414	1.4818770	1.906598	834187
1.3939394	1.161616	1.4794804	1.907034	829406
1.3939394	1.181818	1.4770847	1.907470	824477
1.3939394	1.202020	1.4746901	1.907905	819392
1.3939394	1.222222	1.4722965	1.908340	814144
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1.3939394	1.282828	1.4651229	1.909644	797312
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1.3939394	1.383838	1.4531959	1.911813	764881
1.3939394	1.404040	1.4508159	1.912246	757594
1.3939394	1.424242	1.4484380	1.912678	749991
1.3939394	1.444444	1.4460624	1.913110	742047
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1.3939394	1.585859	1.4295200	1.916118	673891
1.3939394	1.606061	1.4271735	1.916545	661752
1.3939394	1.626263	1.4248329	1.916970	648790
1.3939394	1.646465	1.4224990	1.917394	634894
1.3939394	1.666667	1.4201727	1.917817	619930
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1.3939394	2.636364	1.2978913	1.953288	1648832
1.3939394	2.656566	1.2954331	1.953652	1655992
1.3939394	2.676768	1.2929765	1.954014	1662977
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1.3939394	2.717172	1.2880682	1.954740	1676462
1.3939394	2.737374	1.2856163	1.955102	1682979
1.3939394	2.757576	1.2831657	1.955464	1689355

1.3939394	2.777778	1.2807165	1.955826	1695598
1.3939394	2.797980	1.2782686	1.956187	1701714
1.3939394	2.818182	1.2758219	1.956549	1707709
1.3939394	2.838384	1.2733763	1.956910	1713589
1.3939394	2.858586	1.2709319	1.957271	1719359
1.3939394	2.878788	1.2684886	1.957632	1725024
1.3939394	2.898990	1.2660464	1.957993	1730589
1.3939394	2.919192	1.2636052	1.958353	1736057
1.3939394	2.939394	1.2611649	1.958714	1741434
1.3939394	2.959596	1.2587256	1.959074	1746722
1.3939394	2.979798	1.2562873	1.959434	1751926
1.3939394	3.000000	1.2538498	1.959795	1757049
1.4141414	1.000000	1.5181968	1.899995	856049
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1.4141414	1.101010	1.5062018	1.902176	835040
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1.4141414	1.383838	1.4727561	1.908257	755703
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1.4141414	1.585859	1.4491182	1.912554	663641
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1.4141414	1.626263	1.4444422	1.913405	638213
1.4141414	1.646465	1.4421144	1.913828	624127
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1.4141414	1.727273	1.4329007	1.915503	554927
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1.4141414	1.787879	1.4261585	1.916729	481148
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1.4141414	1.828283	1.4218213	1.917518	411757
1.4141414	1.848485	1.4197388	1.917896	366146
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1.4141414	1.909091	1.4145015	1.918848	103071
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1.4141414	2.333333	1.3543721	1.944945	1505958
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1.4141414	2.515151	1.3319715	1.948254	1596722
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1.4141414	2.575758	1.3245588	1.949349	1621197
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1.4141414	2.636364	1.3171655	1.950441	1643680
1.4141414	2.656566	1.3147048	1.950805	1650793
1.4141414	2.676768	1.3122459	1.951168	1657732
1.4141414	2.696970	1.3097886	1.951531	1664507
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1.4343434	1.383838	1.4923202	1.904700	746792
1.4343434	1.404040	1.4899462	1.905131	739343
1.4343434	1.424242	1.4875746	1.905562	731570
1.4343434	1.444444	1.4852056	1.905993	723448
1.4343434	1.464646	1.4828395	1.906423	714945
1.4343434	1.484849	1.4804765	1.906853	706029
1.4343434	1.505051	1.4781170	1.907282	696662
1.4343434	1.525252	1.4757612	1.907710	686797
1.4343434	1.545454	1.4734097	1.908138	676386
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1.4343434	1.585859	1.4687212	1.908990	653675
1.4343434	1.606061	1.4663855	1.909415	641225
1.4343434	1.626263	1.4640565	1.909838	627920
1.4343434	1.646465	1.4617351	1.910260	613644
1.4343434	1.666667	1.4594225	1.910681	598253
1.4343434	1.686869	1.4571201	1.911100	581571
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1.4343434	1.727273	1.4525540	1.911930	543380
1.4343434	1.747475	1.4502956	1.912340	521211

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1.4343434	1.787879	1.4458497	1.913149	468137
1.4343434	1.808081	1.4436765	1.913544	435508
1.4343434	1.828283	1.4415524	1.913930	396912
1.4343434	1.848485	1.4394991	1.914303	349762
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1.4343434	1.888889	1.4358111	1.914974	205314
1.4343434	1.909091	1.4345194	1.915209	67542
1.4343434	1.929293	1.3938474	1.938622	5000000
1.4343434	1.949495	1.4257242	1.934404	780685
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1.4343434	1.989899	1.4185407	1.935465	1055289
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1.4343434	2.151515	1.3966004	1.938706	1360510
1.4343434	2.171717	1.3940127	1.939089	1380936
1.4343434	2.191919	1.3914392	1.939469	1399762
1.4343434	2.212121	1.3888780	1.939847	1417229
1.4343434	2.232323	1.3863274	1.940224	1433526
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1.4343434	2.575758	1.3438433	1.946500	1616351
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1.4545455	1.585859	1.4883289	1.905425	643970
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1.4545455	1.646465	1.4813608	1.906692	603422
1.4545455	1.666667	1.4790553	1.907111	587816
1.4545455	1.686869	1.4767608	1.907529	570889
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1.4545455	2.414141	1.3829977	1.940716	1541661
1.4545455	2.434343	1.3805033	1.941084	1551491
1.4545455	2.454546	1.3780125	1.941452	1560964
1.4545455	2.474747	1.3755250	1.941820	1570108
1.4545455	2.494950	1.3730405	1.942187	1578947
1.4545455	2.515151	1.3705590	1.942553	1587502
1.4545455	2.535353	1.3680802	1.942920	1595793
1.4545455	2.555556	1.3656039	1.943285	1603837
1.4545455	2.575758	1.3631301	1.943651	1611650
1.4545455	2.595960	1.3606585	1.944016	1619247
1.4545455	2.616162	1.3581890	1.944381	1626640
1.4545455	2.636364	1.3557216	1.944745	1633842
1.4545455	2.656566	1.3532560	1.945110	1640863
1.4545455	2.676768	1.3507923	1.945474	1647714
1.4545455	2.696970	1.3483304	1.945837	1654403
1.4545455	2.717172	1.3458701	1.946201	1660940
1.4545455	2.737374	1.3434114	1.946564	1667332
1.4545455	2.757576	1.3409542	1.946927	1673586

1.4545455	2.777778	1.3384985	1.947290	1679709
1.4545455	2.797980	1.3360441	1.947652	1685708
1.4545455	2.818182	1.3335911	1.948015	1691588
1.4545455	2.838384	1.3311393	1.948377	1697354
1.4545455	2.858586	1.3286888	1.948739	1703013
1.4545455	2.878788	1.3262395	1.949101	1708568
1.4545455	2.898990	1.3237913	1.949462	1714025
1.4545455	2.919192	1.3213442	1.949824	1719386
1.4545455	2.939394	1.3188982	1.950185	1724657
1.4545455	2.959596	1.3164532	1.950546	1729841
1.4545455	2.979798	1.3140092	1.950907	1734941
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1.4747475	1.060606	1.5695947	1.890650	820547
1.4747475	1.080808	1.5672015	1.891085	816098
1.4747475	1.101010	1.5648094	1.891520	811524
1.4747475	1.121212	1.5624182	1.891954	806819
1.4747475	1.141414	1.5600281	1.892389	801976
1.4747475	1.161616	1.5576392	1.892823	796989
1.4747475	1.181818	1.5552515	1.893258	791848
1.4747475	1.202020	1.5528650	1.893692	786546
1.4747475	1.222222	1.5504799	1.894125	781072
1.4747475	1.242424	1.5480963	1.894559	775418
1.4747475	1.262626	1.5457142	1.894992	769572
1.4747475	1.282828	1.5433337	1.895424	763522
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1.4747475	1.343434	1.5362033	1.896721	744008
1.4747475	1.363636	1.5338306	1.897152	736996
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1.4747475	1.404040	1.5290924	1.898014	722094
1.4747475	1.424242	1.5267273	1.898444	714159
1.4747475	1.444444	1.5243651	1.898873	705864
1.4747475	1.464646	1.5220062	1.899302	697180
1.4747475	1.484849	1.5196508	1.899730	688070
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1.4747475	1.585859	1.5079412	1.901860	634508
1.4747475	1.606061	1.5056167	1.902282	621748
1.4747475	1.626263	1.5032997	1.902703	608100
1.4747475	1.646465	1.5009915	1.903123	593441
1.4747475	1.666667	1.4986933	1.903541	577619
1.4747475	1.686869	1.4964069	1.903957	560443
1.4747475	1.707071	1.4941343	1.904370	541676
1.4747475	1.727273	1.4918784	1.904780	521009
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1.4747475	2.474747	1.3948277	1.938968	1565822
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1.4747475	2.555556	1.3848956	1.940435	1599326
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1.4747475	2.616162	1.3774731	1.941532	1621983
1.4747475	2.636364	1.3750032	1.941897	1629140
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1.4747475	2.676768	1.3700693	1.942626	1642925
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1.4747475	2.878788	1.3454953	1.946256	1703405
1.4747475	2.898990	1.3430452	1.946618	1708828
1.4747475	2.919192	1.3405962	1.946980	1714156
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1.5151515	1.585859	1.5471792	1.894725	616244
1.5151515	1.606061	1.5448664	1.895146	603173
1.5151515	1.626263	1.5425621	1.895565	589181
1.5151515	1.646465	1.5402677	1.895982	574134
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1.5151515	2.232323	1.4637097	1.928792	1421246
1.5151515	2.252525	1.4611515	1.929170	1435924
1.5151515	2.272727	1.4586021	1.929547	1449772
1.5151515	2.292929	1.4560605	1.929922	1462885
1.5151515	2.313131	1.4535260	1.930297	1475340
1.5151515	2.333333	1.4509979	1.930670	1487203
1.5151515	2.353535	1.4484755	1.931043	1498532
1.5151515	2.373737	1.4459585	1.931415	1509375
1.5151515	2.393939	1.4434463	1.931786	1519774
1.5151515	2.414141	1.4409386	1.932156	1529767
1.5151515	2.434343	1.4384350	1.932526	1539387
1.5151515	2.454546	1.4359352	1.932896	1548663
1.5151515	2.474747	1.4334390	1.933264	1557620
1.5151515	2.494950	1.4309461	1.933633	1566281
1.5151515	2.515151	1.4284564	1.934000	1574668
1.5151515	2.535353	1.4259695	1.934368	1582797
1.5151515	2.555556	1.4234854	1.934735	1590687
1.5151515	2.575758	1.4210038	1.935101	1598353
1.5151515	2.595960	1.4185247	1.935467	1605807
1.5151515	2.616162	1.4160479	1.935833	1613063
1.5151515	2.636364	1.4135733	1.936199	1620132
1.5151515	2.656566	1.4111007	1.936564	1627025
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1.5151515	2.696970	1.4061614	1.937294	1640320
1.5151515	2.717172	1.4036944	1.937658	1646739
1.5151515	2.737374	1.4012292	1.938023	1653016
1.5151515	2.757576	1.3987656	1.938387	1659158

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1.5151515	2.818182	1.3913839	1.939477	1676838
1.5151515	2.838384	1.3889262	1.939840	1682501
1.5151515	2.858586	1.3864698	1.940203	1688059
1.5151515	2.878788	1.3840146	1.940566	1693514
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1.5151515	2.919192	1.3791080	1.941291	1704138
1.5151515	2.939394	1.3766564	1.941653	1709313
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1.5353535	2.171717	1.4908116	1.924789	1368728
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1.5353535	2.212121	1.4856308	1.925554	1402962
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1.5353535	2.474747	1.4527475	1.930412	1553693
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1.5353535	2.575758	1.4402992	1.932251	1594166
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1.5353535	2.676768	1.4279138	1.934081	1629353
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1.5353535	2.717172	1.4229738	1.934810	1642265
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1.5353535	2.818182	1.4106530	1.936630	1672191
1.5353535	2.838384	1.4081933	1.936994	1677822
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1.5353535	2.919192	1.3983676	1.938445	1699334
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1.5555556	1.464646	1.6003866	1.885051	664204
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1.5757576	1.565657	1.6083720	1.883599	602970
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1.5757576	1.606061	1.6037744	1.884435	576746
1.5757576	1.626263	1.6014902	1.884850	562225
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1.5757576	1.707071	1.5924930	1.886486	490886
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1.5757576	2.030303	1.5484438	1.916275	1184802
1.5757576	2.050505	1.5456287	1.916691	1220547
1.5757576	2.070707	1.5428675	1.917099	1251508
1.5757576	2.090909	1.5401474	1.917501	1278833
1.5757576	2.111111	1.5374598	1.917898	1303300
1.5757576	2.131313	1.5347985	1.918291	1325462
1.5757576	2.151515	1.5321590	1.918681	1345726
1.5757576	2.171717	1.5295377	1.919068	1364399
1.5757576	2.191919	1.5269320	1.919453	1381720
1.5757576	2.212121	1.5243398	1.919836	1397877
1.5757576	2.232323	1.5217594	1.920217	1413022
1.5757576	2.252525	1.5191894	1.920597	1427279
1.5757576	2.272727	1.5166286	1.920975	1440750
1.5757576	2.292929	1.5140760	1.921352	1453522
1.5757576	2.313131	1.5115309	1.921728	1465666
1.5757576	2.333333	1.5089925	1.922103	1477245
1.5757576	2.353535	1.5064602	1.922477	1488311
1.5757576	2.373737	1.5039335	1.922850	1498911
1.5757576	2.393939	1.5014120	1.923223	1509084
1.5757576	2.414141	1.4988952	1.923595	1518866
1.5757576	2.434343	1.4963828	1.923966	1528288
1.5757576	2.454546	1.4938744	1.924336	1537377
1.5757576	2.474747	1.4913698	1.924706	1546158
1.5757576	2.494950	1.4888688	1.925076	1554652
1.5757576	2.515151	1.4863711	1.925445	1562879
1.5757576	2.535353	1.4838765	1.925813	1570858
1.5757576	2.555556	1.4813848	1.926181	1578603
1.5757576	2.575758	1.4788958	1.926549	1586129
1.5757576	2.595960	1.4764095	1.926916	1593450
1.5757576	2.616162	1.4739255	1.927283	1600578
1.5757576	2.636364	1.4714440	1.927650	1607523
1.5757576	2.656566	1.4689646	1.928016	1614296
1.5757576	2.676768	1.4664873	1.928382	1620906
1.5757576	2.696970	1.4640121	1.928748	1627362
1.5757576	2.717172	1.4615387	1.929113	1633672
1.5757576	2.737374	1.4590672	1.929478	1639842
1.5757576	2.757576	1.4565974	1.929843	1645881

1.5757576	2.777778	1.4541293	1.930208	1651793
1.5757576	2.797980	1.4516627	1.930572	1657586
1.5757576	2.818182	1.4491977	1.930936	1663264
1.5757576	2.838384	1.4467342	1.931300	1668832
1.5757576	2.858586	1.4442721	1.931664	1674297
1.5757576	2.878788	1.4418113	1.932028	1679661
1.5757576	2.898990	1.4393519	1.932391	1684929
1.5757576	2.919192	1.4368937	1.932754	1690106
1.5757576	2.939394	1.4344367	1.933117	1695194
1.5757576	2.959596	1.4319809	1.933480	1700198
1.5757576	2.979798	1.4295262	1.933842	1705120
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1.5959596	1.020202	1.6916412	1.868459	788090
1.5959596	1.040404	1.6892565	1.868893	783644
1.5959596	1.060606	1.6868730	1.869326	779079
1.5959596	1.080808	1.6844908	1.869760	774389
1.5959596	1.101010	1.6821099	1.870192	769568
1.5959596	1.121212	1.6797303	1.870625	764609
1.5959596	1.141414	1.6773522	1.871058	759505
1.5959596	1.161616	1.6749757	1.871490	754248
1.5959596	1.181818	1.6726007	1.871921	748829
1.5959596	1.202020	1.6702275	1.872353	743239
1.5959596	1.222222	1.6678561	1.872784	737469
1.5959596	1.242424	1.6654866	1.873215	731507
1.5959596	1.262626	1.6631193	1.873645	725341
1.5959596	1.282828	1.6607541	1.874075	718959
1.5959596	1.303030	1.6583913	1.874505	712345
1.5959596	1.323232	1.6560310	1.874934	705485
1.5959596	1.343434	1.6536735	1.875363	698360
1.5959596	1.363636	1.6513189	1.875791	690951
1.5959596	1.383838	1.6489675	1.876218	683236
1.5959596	1.404040	1.6466195	1.876645	675193
1.5959596	1.424242	1.6442752	1.877072	666792
1.5959596	1.444444	1.6419349	1.877497	658004
1.5959596	1.464646	1.6395991	1.877922	648793
1.5959596	1.484849	1.6372682	1.878346	639122
1.5959596	1.505051	1.6349426	1.878768	628943
1.5959596	1.525252	1.6326230	1.879190	618205
1.5959596	1.545454	1.6303100	1.879611	606846
1.5959596	1.565657	1.6280043	1.880030	594797
1.5959596	1.585859	1.6257070	1.880448	581971
1.5959596	1.606061	1.6234191	1.880863	568269
1.5959596	1.626263	1.6211420	1.881277	553570
1.5959596	1.646465	1.6188773	1.881689	537723
1.5959596	1.666667	1.6166271	1.882098	520546
1.5959596	1.686869	1.6143939	1.882504	501804
1.5959596	1.707071	1.6121812	1.882907	481199
1.5959596	1.727273	1.6099934	1.883304	458335
1.5959596	1.747475	1.6078364	1.883697	432678

1.5959596	1.767677	1.6057188	1.884082	403477
1.5959596	1.787879	1.6036530	1.884457	369630
1.5959596	1.808081	1.6016583	1.884820	329428
1.5959596	1.828283	1.5997674	1.885164	280002
1.5959596	1.848485	1.5980416	1.885478	215956
1.5959596	1.868687	1.5966203	1.885736	125109
1.5959596	1.888889	1.5959596	1.888889	0
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1.5959596	1.969697	1.5768872	1.912073	1029912
1.5959596	1.989899	1.5737265	1.912540	1094417
1.5959596	2.010101	1.5707303	1.912983	1144650
1.5959596	2.030303	1.5678388	1.913410	1185835
1.5959596	2.050505	1.5650198	1.913826	1220766
1.5959596	2.070707	1.5622543	1.914235	1251115
1.5959596	2.090909	1.5595296	1.914637	1277962
1.5959596	2.111111	1.5568374	1.915035	1302046
1.5959596	2.131313	1.5541716	1.915429	1323892
1.5959596	2.151515	1.5515275	1.915819	1343891
1.5959596	2.171717	1.5489019	1.916207	1362339
1.5959596	2.191919	1.5462920	1.916593	1379464
1.5959596	2.212121	1.5436958	1.916976	1395450
1.5959596	2.232323	1.5411115	1.917358	1410444
1.5959596	2.252525	1.5385377	1.917738	1424567
1.5959596	2.272727	1.5359732	1.918117	1437917
1.5959596	2.292929	1.5334171	1.918495	1450579
1.5959596	2.313131	1.5308686	1.918871	1462624
1.5959596	2.333333	1.5283268	1.919247	1474111
1.5959596	2.353535	1.5257913	1.919621	1485093
1.5959596	2.373737	1.5232615	1.919995	1495615
1.5959596	2.393939	1.5207370	1.920368	1505716
1.5959596	2.414141	1.5182172	1.920740	1515430
1.5959596	2.434343	1.5157019	1.921112	1524788
1.5959596	2.454546	1.5131908	1.921483	1533817
1.5959596	2.474747	1.5106835	1.921853	1542541
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1.5959596	2.515151	1.5056795	1.922592	1559158
1.5959596	2.535353	1.5031824	1.922961	1567088
1.5959596	2.555556	1.5006882	1.923330	1574786
1.5959596	2.575758	1.4981968	1.923698	1582268
1.5959596	2.595960	1.4957081	1.924065	1589546
1.5959596	2.616162	1.4932219	1.924433	1596633
1.5959596	2.636364	1.4907381	1.924800	1603538
1.5959596	2.656566	1.4882565	1.925166	1610273
1.5959596	2.676768	1.4857771	1.925533	1616846
1.5959596	2.696970	1.4832997	1.925898	1623266
1.5959596	2.717172	1.4808242	1.926264	1629541
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1.5959596	2.757576	1.4758788	1.926995	1641683

1.5959596	2.777778	1.4734087	1.927360	1647564
1.5959596	2.797980	1.4709402	1.927724	1653325
1.5959596	2.818182	1.4684733	1.928089	1658972
1.5959596	2.838384	1.4660078	1.928453	1664511
1.5959596	2.858586	1.4635439	1.928817	1669945
1.5959596	2.878788	1.4610813	1.929181	1675281
1.5959596	2.898990	1.4586200	1.929544	1680521
1.5959596	2.919192	1.4561600	1.929908	1685669
1.5959596	2.939394	1.4537013	1.930271	1690730
1.5959596	2.959596	1.4512438	1.930634	1695707
1.5959596	2.979798	1.4487874	1.930997	1700603
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1.6161616	1.040404	1.7088112	1.865338	777305
1.6161616	1.060606	1.7064295	1.865771	772704
1.6161616	1.080808	1.7040492	1.866203	767978
1.6161616	1.101010	1.7016702	1.866636	763118
1.6161616	1.121212	1.6992927	1.867068	758120
1.6161616	1.141414	1.6969167	1.867500	752976
1.6161616	1.161616	1.6945423	1.867932	747677
1.6161616	1.181818	1.6921696	1.868363	742215
1.6161616	1.202020	1.6897986	1.868794	736580
1.6161616	1.222222	1.6874296	1.869225	730764
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1.6161616	1.262626	1.6826979	1.870086	718537
1.6161616	1.282828	1.6803354	1.870515	712102
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1.6161616	1.343434	1.6732635	1.871801	691331
1.6161616	1.363636	1.6709121	1.872228	683859
1.6161616	1.383838	1.6685640	1.872655	676077
1.6161616	1.404040	1.6662195	1.873082	667962
1.6161616	1.424242	1.6638789	1.873507	659486
1.6161616	1.444444	1.6615425	1.873932	650618
1.6161616	1.464646	1.6592108	1.874356	641321
1.6161616	1.484849	1.6568842	1.874779	631557
1.6161616	1.505051	1.6545632	1.875201	621278
1.6161616	1.525252	1.6522485	1.875622	610431
1.6161616	1.545454	1.6499407	1.876041	598954
1.6161616	1.565657	1.6476406	1.876459	586774
1.6161616	1.585859	1.6453494	1.876876	573805
1.6161616	1.606061	1.6430681	1.877291	559942
1.6161616	1.626263	1.6407981	1.877704	545060
1.6161616	1.646465	1.6385413	1.878114	529008
1.6161616	1.666667	1.6362998	1.878521	511592
1.6161616	1.686869	1.6340765	1.878926	492573
1.6161616	1.707071	1.6318749	1.879326	471639
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1.6161616	1.848485	1.6179271	1.881862	198147
1.6161616	1.868687	1.6166103	1.882102	101258
1.6161616	1.888889	1.5611871	1.913798	5000000
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1.6161616	1.929293	1.6037713	1.908102	812204
1.6161616	1.949495	1.5997078	1.908702	950887
1.6161616	1.969697	1.5962763	1.909209	1036204
1.6161616	1.989899	1.5931230	1.909675	1098082
1.6161616	2.010101	1.5901274	1.910117	1146715
1.6161616	2.030303	1.5872335	1.910545	1186822
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1.6161616	2.070707	1.5816412	1.911371	1250737
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1.6161616	2.111111	1.5762154	1.912172	1300835
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1.6161616	2.151515	1.5708968	1.912958	1342115
1.6161616	2.171717	1.5682669	1.913347	1360342
1.6161616	2.191919	1.5656529	1.913733	1377277
1.6161616	2.212121	1.5630527	1.914117	1393096
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1.6161616	2.595960	1.5150086	1.921214	1585742
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1.6161616	2.656566	1.5075502	1.922316	1606353
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1.6161616	2.757576	1.4951622	1.924146	1637592

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1.6161616	2.838384	1.4852835	1.925605	1660298
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1.6161616	2.919192	1.4754285	1.927061	1681344
1.6161616	2.939394	1.4729680	1.927425	1686379
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1.6363636	1.484849	1.6765037	1.871212	624136
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1.6363636	1.525252	1.6718777	1.872053	602801
1.6363636	1.545454	1.6695752	1.872471	591205
1.6363636	1.565657	1.6672809	1.872889	578894
1.6363636	1.585859	1.6649959	1.873304	565779
1.6363636	1.606061	1.6627213	1.873718	551753
1.6363636	1.626263	1.6604587	1.874129	536688
1.6363636	1.646465	1.6582100	1.874538	520426
1.6363636	1.666667	1.6559775	1.874944	502769
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1.6363636	1.727273	1.6494120	1.876138	438523
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1.6363636	2.232323	1.5798186	1.911640	1405513
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1.6969697	1.606061	1.7217060	1.862993	527936
1.6969697	1.626263	1.7194665	1.863400	512305
1.6969697	1.646465	1.7172433	1.863805	495394
1.6969697	1.666667	1.7150392	1.864205	476983
1.6969697	1.686869	1.7128579	1.864602	456794
1.6969697	1.707071	1.7107041	1.864993	434458
1.6969697	1.727273	1.7085844	1.865379	409483
1.6969697	1.747475	1.7065076	1.865757	381184

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1.6969697	1.787879	1.7025423	1.866478	310118
1.6969697	1.808081	1.7007066	1.866811	263347
1.6969697	1.828283	1.6990396	1.867114	203734
1.6969697	1.848485	1.6976695	1.867363	121640
1.6969697	1.868687	1.6969697	1.868687	0
1.6969697	1.888889	1.6335421	1.903064	5000000
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1.6969697	1.949495	1.6771832	1.897257	988101
1.6969697	1.969697	1.6738355	1.897751	1057701
1.6969697	1.989899	1.6707065	1.898213	1110924
1.6969697	2.010101	1.6677126	1.898656	1154068
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1.6969697	2.191919	1.6431043	1.902291	1369157
1.6969697	2.212121	1.6404890	1.902677	1384342
1.6969697	2.232323	1.6378862	1.903062	1398627
1.6969697	2.252525	1.6352945	1.903445	1412115
1.6969697	2.272727	1.6327127	1.903826	1424894
1.6969697	2.292929	1.6301397	1.904206	1437038
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1.6969697	2.333333	1.6250173	1.904963	1459663
1.6969697	2.353535	1.6224664	1.905340	1470245
1.6969697	2.373737	1.6199217	1.905716	1480395
1.6969697	2.393939	1.6173826	1.906091	1490151
1.6969697	2.414141	1.6148487	1.906465	1499542
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1.6969697	2.494950	1.6047582	1.907956	1533982
1.6969697	2.515151	1.6022455	1.908327	1541917
1.6969697	2.535353	1.5997361	1.908698	1549616
1.6969697	2.555556	1.5972300	1.909068	1557094
1.6969697	2.575758	1.5947270	1.909438	1564365
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1.6969697	2.656566	1.5847424	1.910913	1591606
1.6969697	2.676768	1.5822524	1.911280	1598005
1.6969697	2.696970	1.5797647	1.911648	1604256
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1.6969697	2.737374	1.5747955	1.912382	1616344
1.6969697	2.757576	1.5723139	1.912749	1622195

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1.6969697	2.818182	1.5648799	1.913847	1639042
1.6969697	2.838384	1.5624053	1.914213	1644440
1.6969697	2.858586	1.5599323	1.914578	1649738
1.6969697	2.878788	1.5574608	1.914943	1654938
1.6969697	2.898990	1.5549907	1.915308	1660046
1.6969697	2.919192	1.5525221	1.915672	1665065
1.6969697	2.939394	1.5500548	1.916037	1669999
1.6969697	2.959596	1.5475889	1.916401	1674850
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1.7171717	1.363636	1.7689254	1.854408	650390
1.7171717	1.383838	1.7665946	1.854832	642279
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1.7171717	1.424242	1.7619470	1.855677	624962
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1.7171717	1.484849	1.7550168	1.856937	595737
1.7171717	1.505051	1.7527200	1.857354	584954
1.7171717	1.525252	1.7504311	1.857770	573558
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1.7171717	1.585859	1.7436220	1.859008	534918
1.7171717	1.606061	1.7413758	1.859417	520222
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1.7171717	1.646465	1.7369301	1.860225	487261
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1.7171717	2.535353	1.6190513	1.905844	1546371
1.7171717	2.555556	1.6165429	1.906215	1553808
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1.7373737	1.161616	1.8120002	1.846576	710892
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1.7373737	1.282828	1.7978854	1.849142	673674
1.7373737	1.303030	1.7955429	1.849568	666687
1.7373737	1.323232	1.7932039	1.849994	659434
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1.7373737	1.363636	1.7885371	1.850842	644049
1.7373737	1.383838	1.7862100	1.851265	635872
1.7373737	1.404040	1.7838876	1.851687	627337
1.7373737	1.424242	1.7815702	1.852109	618412
1.7373737	1.444444	1.7792584	1.852529	609062
1.7373737	1.464646	1.7769526	1.852948	599249
1.7373737	1.484849	1.7746536	1.853366	588926
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1.7373737	1.525252	1.7700785	1.854198	566532
1.7373737	1.545454	1.7678043	1.854612	554328
1.7373737	1.565657	1.7655405	1.855023	541344
1.7373737	1.585859	1.7632884	1.855433	527478
1.7373737	1.606061	1.7610498	1.855840	512608
1.7373737	1.626263	1.7588266	1.856244	496584
1.7373737	1.646465	1.7566215	1.856645	479221
1.7373737	1.666667	1.7544377	1.857042	460282
1.7373737	1.686869	1.7522793	1.857434	439466
1.7373737	1.707071	1.7501518	1.857821	416372
1.7373737	1.727273	1.7480629	1.858201	390460
1.7373737	1.747475	1.7460229	1.858572	360968

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1.7373737	2.373737	1.6585942	1.900003	1474833
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1.7373737	2.535353	1.6383679	1.902991	1543202
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1.7373737	2.616162	1.6283435	1.904472	1571608
1.7373737	2.636364	1.6258445	1.904841	1578256
1.7373737	2.656566	1.6233480	1.905210	1584743
1.7373737	2.676768	1.6208540	1.905578	1591076
1.7373737	2.696970	1.6183623	1.905946	1597264
1.7373737	2.717172	1.6158727	1.906314	1603313
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1.7373737	2.818182	1.6034549	1.908148	1631707
1.7373737	2.838384	1.6009767	1.908514	1637053
1.7373737	2.858586	1.5985002	1.908880	1642299
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1.7373737	2.919192	1.5910799	1.909976	1657480
1.7373737	2.939394	1.5886093	1.910341	1662367
1.7373737	2.959596	1.5861401	1.910706	1667172
1.7373737	2.979798	1.5836722	1.911071	1671899
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1.7575758	1.060606	1.8433987	1.840867	731468
1.7575758	1.080808	1.8410324	1.841298	726499
1.7575758	1.101010	1.8386678	1.841727	721390
1.7575758	1.121212	1.8363051	1.842157	716134
1.7575758	1.141414	1.8339444	1.842586	710723
1.7575758	1.161616	1.8315858	1.843015	705148
1.7575758	1.181818	1.8292295	1.843443	699399
1.7575758	1.202020	1.8268756	1.843871	693467
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1.7575758	1.282828	1.8174870	1.845578	667664
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1.7575758	1.363636	1.8081519	1.847276	637813
1.7575758	1.383838	1.8058285	1.847698	629571
1.7575758	1.404040	1.8035099	1.848120	620965
1.7575758	1.424242	1.8011966	1.848540	611965
1.7575758	1.444444	1.7988891	1.848960	602535
1.7575758	1.464646	1.7965879	1.849378	592635
1.7575758	1.484849	1.7942937	1.849795	582218
1.7575758	1.505051	1.7920072	1.850211	571229
1.7575758	1.525252	1.7897294	1.850625	559608
1.7575758	1.545454	1.7874612	1.851038	547279
1.7575758	1.565657	1.7852038	1.851448	534156
1.7575758	1.585859	1.7829588	1.851856	520134
1.7575758	1.606061	1.7807278	1.852262	505089
1.7575758	1.626263	1.7785131	1.852665	488864
1.7575758	1.646465	1.7763174	1.853064	471268
1.7575758	1.666667	1.7741441	1.853459	452056
1.7575758	1.686869	1.7719977	1.853849	430915
1.7575758	1.707071	1.7698841	1.854234	407426
1.7575758	1.727273	1.7678114	1.854610	381022
1.7575758	1.747475	1.7657909	1.854978	350899

1.7575758	1.767677	1.7638398	1.855333	315867
1.7575758	1.787879	1.7619848	1.855670	274055
1.7575758	1.808081	1.7602716	1.855981	222268
1.7575758	1.828283	1.7587892	1.856251	154326
1.7575758	1.848485	1.7577484	1.856440	55608
1.7575758	1.868687	1.6900789	1.894677	5000000
1.7575758	1.888889	1.7514065	1.886292	397160
1.7575758	1.909091	1.7433155	1.887487	790275
1.7575758	1.929293	1.7389425	1.888133	925616
1.7575758	1.949495	1.7353095	1.888670	1009650
1.7575758	1.969697	1.7320065	1.889158	1070828
1.7575758	1.989899	1.7288917	1.889618	1119008
1.7575758	2.010101	1.7258987	1.890060	1158786
1.7575758	2.030303	1.7229913	1.890489	1192685
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1.7575758	2.070707	1.7173521	1.891323	1248445
1.7575758	2.090909	1.7145959	1.891730	1272001
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1.7575758	2.131313	1.7091732	1.892531	1313011
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1.7575758	2.171717	1.7038404	1.893319	1347940
1.7575758	2.191919	1.7012001	1.893709	1363651
1.7575758	2.212121	1.6985743	1.894097	1378395
1.7575758	2.232323	1.6959612	1.894483	1392286
1.7575758	2.252525	1.6933595	1.894867	1405421
1.7575758	2.272727	1.6907679	1.895250	1417881
1.7575758	2.292929	1.6881855	1.895631	1429736
1.7575758	2.313131	1.6856115	1.896011	1441043
1.7575758	2.333333	1.6830450	1.896391	1451853
1.7575758	2.353535	1.6804854	1.896769	1462210
1.7575758	2.373737	1.6779322	1.897146	1472152
1.7575758	2.393939	1.6753848	1.897522	1481713
1.7575758	2.414141	1.6728429	1.897898	1490923
1.7575758	2.434343	1.6703059	1.898273	1499808
1.7575758	2.454546	1.6677737	1.898647	1508392
1.7575758	2.474747	1.6652459	1.899020	1516696
1.7575758	2.494950	1.6627221	1.899393	1524738
1.7575758	2.515151	1.6602022	1.899765	1532536
1.7575758	2.535353	1.6576858	1.900137	1540106
1.7575758	2.555556	1.6551729	1.900508	1547460
1.7575758	2.575758	1.6526632	1.900879	1554613
1.7575758	2.595960	1.6501565	1.901249	1561576
1.7575758	2.616162	1.6476527	1.901619	1568360
1.7575758	2.636364	1.6451516	1.901989	1574974
1.7575758	2.656566	1.6426531	1.902358	1581427
1.7575758	2.676768	1.6401570	1.902726	1587728
1.7575758	2.696970	1.6376633	1.903095	1593885
1.7575758	2.717172	1.6351719	1.903463	1599905
1.7575758	2.737374	1.6326825	1.903831	1605794
1.7575758	2.757576	1.6301953	1.904198	1611558

1.7575758	2.777778	1.6277099	1.904565	1617204
1.7575758	2.797980	1.6252265	1.904932	1622737
1.7575758	2.818182	1.6227449	1.905299	1628161
1.7575758	2.838384	1.6202649	1.905665	1633482
1.7575758	2.858586	1.6177867	1.906031	1638704
1.7575758	2.878788	1.6153100	1.906397	1643830
1.7575758	2.898990	1.6128349	1.906763	1648866
1.7575758	2.919192	1.6103613	1.907128	1653814
1.7575758	2.939394	1.6078891	1.907493	1658677
1.7575758	2.959596	1.6054183	1.907858	1663460
1.7575758	2.979798	1.6029488	1.908223	1668166
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1.7777778	1.080808	1.8606115	1.837738	720996
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1.7777778	1.121212	1.8558886	1.838596	710562
1.7777778	1.141414	1.8535302	1.839025	705114
1.7777778	1.161616	1.8511740	1.839454	699501
1.7777778	1.181818	1.8488201	1.839881	693713
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1.7777778	1.222222	1.8441200	1.840736	681571
1.7777778	1.242424	1.8417741	1.841163	675192
1.7777778	1.262626	1.8394311	1.841589	668592
1.7777778	1.282828	1.8370914	1.842014	661754
1.7777778	1.303030	1.8347551	1.842439	654663
1.7777778	1.323232	1.8324225	1.842863	647300
1.7777778	1.343434	1.8300939	1.843286	639646
1.7777778	1.363636	1.8277695	1.843709	631677
1.7777778	1.383838	1.8254498	1.844131	623369
1.7777778	1.404040	1.8231352	1.844551	614693
1.7777778	1.424242	1.8208261	1.844971	605618
1.7777778	1.444444	1.8185229	1.845390	596108
1.7777778	1.464646	1.8162264	1.845808	586120
1.7777778	1.484849	1.8139372	1.846224	575607
1.7777778	1.505051	1.8116560	1.846639	564515
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1.7777778	1.565657	1.8048709	1.847872	527061
1.7777778	1.585859	1.8026330	1.848279	512882
1.7777778	1.606061	1.8004099	1.848683	497658
1.7777778	1.626263	1.7982039	1.849084	481228
1.7777778	1.646465	1.7960179	1.849482	463395
1.7777778	1.666667	1.7938554	1.849875	443905
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1.7777778	1.727273	1.7875661	1.851019	371621
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1.7777778	2.191919	1.7205667	1.890848	1361915
1.7777778	2.212121	1.7179374	1.891236	1376517
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1.7777778	2.373737	1.6972711	1.894289	1469535
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1.7777778	2.414141	1.6921765	1.895042	1488185
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1.7777778	2.555556	1.6744899	1.897655	1544394
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1.7777778	2.595960	1.6694691	1.898396	1558435
1.7777778	2.616162	1.6669632	1.898766	1565184
1.7777778	2.636364	1.6644601	1.899136	1571764
1.7777778	2.656566	1.6619595	1.899506	1578185
1.7777778	2.676768	1.6594615	1.899875	1584454
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1.7777778	2.838384	1.6395547	1.902815	1629989
1.7777778	2.858586	1.6370747	1.903182	1635186
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1.7777778	2.919192	1.6296444	1.904279	1650227
1.7777778	2.939394	1.6271706	1.904645	1655068
1.7777778	2.959596	1.6246981	1.905010	1659829
1.7777778	2.979798	1.6222271	1.905375	1664513
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1.7979798	1.121212	1.8754745	1.835035	705083
1.7979798	1.141414	1.8731185	1.835464	699599
1.7979798	1.161616	1.8707647	1.835892	693948
1.7979798	1.181818	1.8684133	1.836319	688121
1.7979798	1.202020	1.8660645	1.836746	682107
1.7979798	1.222222	1.8637184	1.837173	675895
1.7979798	1.242424	1.8613753	1.837599	669473
1.7979798	1.262626	1.8590352	1.838024	662825
1.7979798	1.282828	1.8566985	1.838449	655938
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1.7979798	1.323232	1.8520360	1.839297	641378
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1.7979798	1.363636	1.8473901	1.840142	625635
1.7979798	1.383838	1.8450742	1.840563	617262
1.7979798	1.404040	1.8427635	1.840983	608516
1.7979798	1.424242	1.8404586	1.841402	599366
1.7979798	1.444444	1.8381599	1.841820	589774
1.7979798	1.464646	1.8358681	1.842236	579698
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1.7979798	1.585859	1.8223112	1.844701	505716
1.7979798	1.606061	1.8200961	1.845104	490310
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1.7979798	2.414141	1.7115113	1.892185	1485510
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1.7979798	2.676768	1.6787674	1.897023	1581252
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1.7979798	2.919192	1.6489290	1.901431	1646716
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1.8181818	1.141414	1.8927092	1.831902	694172
1.8181818	1.161616	1.8903578	1.832329	688485
1.8181818	1.181818	1.8880090	1.832756	682619
1.8181818	1.202020	1.8856628	1.833183	676565
1.8181818	1.222222	1.8833194	1.833609	670310
1.8181818	1.242424	1.8809791	1.834035	663843
1.8181818	1.262626	1.8786419	1.834459	657149
1.8181818	1.282828	1.8763083	1.834884	650213
1.8181818	1.303030	1.8739783	1.835307	643019
1.8181818	1.323232	1.8716523	1.835730	635547
1.8181818	1.343434	1.8693306	1.836152	627776
1.8181818	1.363636	1.8670135	1.836574	619684
1.8181818	1.383838	1.8647014	1.836994	611245
1.8181818	1.404040	1.8623948	1.837413	602429
1.8181818	1.424242	1.8600941	1.837832	593203
1.8181818	1.444444	1.8578000	1.838249	583530
1.8181818	1.464646	1.8555130	1.838665	573366
1.8181818	1.484849	1.8532339	1.839079	562662
1.8181818	1.505051	1.8509636	1.839492	551360
1.8181818	1.525252	1.8487030	1.839903	539393
1.8181818	1.545454	1.8464535	1.840312	526681
1.8181818	1.565657	1.8442163	1.840719	513132
1.8181818	1.585859	1.8419932	1.841123	498631
1.8181818	1.606061	1.8397864	1.841524	483040
1.8181818	1.626263	1.8375983	1.841922	466190
1.8181818	1.646465	1.8354323	1.842316	447867
1.8181818	1.666667	1.8332925	1.842705	427798
1.8181818	1.686869	1.8311843	1.843088	405629
1.8181818	1.707071	1.8291151	1.843464	380882
1.8181818	1.727273	1.8270949	1.843832	352897
1.8181818	1.747475	1.8251384	1.844187	320724

1.8181818	1.767677	1.8232678	1.844527	282920
1.8181818	1.787879	1.8215192	1.844845	237139
1.8181818	1.808081	1.8199579	1.845129	179173
1.8181818	1.828283	1.8187200	1.845354	100249
1.8181818	1.848485	1.8181818	1.848485	0
1.8181818	1.868687	1.7443451	1.886627	5000000
1.8181818	1.888889	1.8067077	1.878122	641131
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1.8181818	1.929293	1.7969855	1.879559	955445
1.8181818	1.949495	1.7934464	1.880081	1027452
1.8181818	1.969697	1.7901783	1.880564	1082041
1.8181818	1.989899	1.7870751	1.881023	1126054
1.8181818	2.010101	1.7840830	1.881465	1162956
1.8181818	2.030303	1.7811710	1.881895	1194747
1.8181818	2.050505	1.7783194	1.882316	1222687
1.8181818	2.070707	1.7755151	1.882730	1247620
1.8181818	2.090909	1.7727489	1.883139	1270139
1.8181818	2.111111	1.7700141	1.883543	1290680
1.8181818	2.131313	1.7673054	1.883943	1309568
1.8181818	2.151515	1.7646191	1.884340	1327054
1.8181818	2.171717	1.7619519	1.884734	1343339
1.8181818	2.191919	1.7593014	1.885126	1358579
1.8181818	2.212121	1.7566656	1.885515	1372906
1.8181818	2.232323	1.7540428	1.885902	1386425
1.8181818	2.252525	1.7514316	1.886288	1399226
1.8181818	2.272727	1.7488308	1.886672	1411385
1.8181818	2.292929	1.7462394	1.887055	1422964
1.8181818	2.313131	1.7436565	1.887437	1434018
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1.8181818	2.373737	1.7359521	1.888575	1464482
1.8181818	2.393939	1.7333968	1.888952	1473858
1.8181818	2.414141	1.7308471	1.889329	1482895
1.8181818	2.434343	1.7283027	1.889705	1491617
1.8181818	2.454546	1.7257630	1.890080	1500048
1.8181818	2.474747	1.7232279	1.890455	1508207
1.8181818	2.494950	1.7206971	1.890828	1516112
1.8181818	2.515151	1.7181703	1.891202	1523780
1.8181818	2.535353	1.7156472	1.891574	1531226
1.8181818	2.555556	1.7131276	1.891947	1538463
1.8181818	2.575758	1.7106114	1.892318	1545503
1.8181818	2.595960	1.7080983	1.892690	1552358
1.8181818	2.616162	1.7055883	1.893060	1559037
1.8181818	2.636364	1.7030811	1.893431	1565551
1.8181818	2.656566	1.7005765	1.893801	1571909
1.8181818	2.676768	1.6980746	1.894170	1578117
1.8181818	2.696970	1.6955751	1.894540	1584185
1.8181818	2.717172	1.6930779	1.894909	1590118
1.8181818	2.737374	1.6905830	1.895277	1595923
1.8181818	2.757576	1.6880902	1.895645	1601606

1.8181818	2.777778	1.6855995	1.896013	1607172
1.8181818	2.797980	1.6831107	1.896381	1612628
1.8181818	2.818182	1.6806238	1.896748	1617977
1.8181818	2.838384	1.6781388	1.897115	1623225
1.8181818	2.858586	1.6756554	1.897482	1628375
1.8181818	2.878788	1.6731737	1.897849	1633432
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1.8181818	2.919192	1.6682152	1.898581	1643279
1.8181818	2.939394	1.6657382	1.898947	1648078
1.8181818	2.959596	1.6632627	1.899313	1652796
1.8181818	2.979798	1.6607885	1.899679	1657438
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1.8383838	1.020202	1.9264428	1.825768	719911
1.8383838	1.040404	1.9240811	1.826198	715082
1.8383838	1.060606	1.9217212	1.826627	710121
1.8383838	1.080808	1.9193633	1.827055	705023
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1.8383838	1.141414	1.9123024	1.828339	688831
1.8383838	1.161616	1.9099534	1.828766	683107
1.8383838	1.181818	1.9076071	1.829193	677202
1.8383838	1.202020	1.9052636	1.829619	671108
1.8383838	1.222222	1.9029229	1.830045	664811
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1.8383838	1.383838	1.8843315	1.833425	605315
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1.8383838	1.424242	1.8797327	1.834261	587127
1.8383838	1.444444	1.8774431	1.834677	577371
1.8383838	1.464646	1.8751610	1.835092	567118
1.8383838	1.484849	1.8728871	1.835506	556317
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1.8383838	1.565657	1.8638945	1.837141	506287
1.8383838	1.585859	1.8616791	1.837543	491621
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1.8383838	1.626263	1.8573020	1.838339	458776
1.8383838	1.646465	1.8551464	1.838731	440200
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1.8383838	1.686869	1.8509238	1.839499	397301
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1.8383838	1.787879	1.8413865	1.841233	224550
1.8383838	1.808081	1.8398842	1.841506	164193
1.8383838	1.828283	1.8387463	1.841713	80781
1.8383838	1.848485	1.7647044	1.883607	5000000
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1.8383838	1.929293	1.8163407	1.876699	963992
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1.8383838	1.969697	1.8095691	1.877700	1085426
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1.8383838	2.171717	1.7813234	1.881872	1341886
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1.8383838	2.212121	1.7760306	1.882654	1371169
1.8383838	2.232323	1.7734047	1.883042	1384569
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1.8383838	2.272727	1.7681866	1.883813	1409323
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1.8383838	2.393939	1.7527362	1.886095	1471358
1.8383838	2.414141	1.7501840	1.886472	1480339
1.8383838	2.434343	1.7476370	1.886849	1489009
1.8383838	2.454546	1.7450950	1.887224	1497390
1.8383838	2.474747	1.7425575	1.887599	1505502
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1.8383838	2.515151	1.7374953	1.888347	1520989
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1.8383838	2.555556	1.7324483	1.889093	1535593
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1.8383838	2.595960	1.7274148	1.889836	1549416
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1.8383838	2.636364	1.7223935	1.890578	1562544
1.8383838	2.656566	1.7198870	1.890948	1568870
1.8383838	2.676768	1.7173832	1.891318	1575049
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1.8383838	2.717172	1.7123827	1.892057	1586992
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1.8383838	2.898990	1.6899830	1.895366	1635054
1.8383838	2.919192	1.6875029	1.895732	1639914
1.8383838	2.939394	1.6850243	1.896098	1644691
1.8383838	2.959596	1.6825472	1.896464	1649389
1.8383838	2.979798	1.6800715	1.896830	1654010
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1.8585859	1.161616	1.9295515	1.825203	677811
1.8585859	1.181818	1.9272077	1.825629	671868
1.8585859	1.202020	1.9248668	1.826055	665733
1.8585859	1.222222	1.9225290	1.826480	659395
1.8585859	1.242424	1.9201943	1.826904	652839
1.8585859	1.262626	1.9178632	1.827328	646053
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1.8585859	1.444444	1.8970893	1.831105	571294
1.8585859	1.464646	1.8948122	1.831519	560952
1.8585859	1.484849	1.8925436	1.831932	550052
1.8585859	1.505051	1.8902845	1.832343	538537
1.8585859	1.525252	1.8880360	1.832751	526333
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1.8585859	1.606061	1.8791791	1.834362	468713
1.8585859	1.626263	1.8770099	1.834756	451426
1.8585859	1.646465	1.8748651	1.835146	432591
1.8585859	1.666667	1.8727492	1.835531	411916
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1.8585859	1.909091	1.8396334	1.873258	878918
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1.8585859	2.030303	1.8199568	1.876165	1196004
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1.8585859	2.232323	1.7927672	1.880182	1382758
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1.8585859	2.434343	1.7669724	1.883992	1486457
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1.8585859	2.535353	1.7542940	1.885865	1525623
1.8585859	2.555556	1.7517701	1.886238	1532784
1.8585859	2.575758	1.7492497	1.886610	1539751
1.8585859	2.595960	1.7467325	1.886982	1546537
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1.8585859	2.636364	1.7417072	1.887725	1559600
1.8585859	2.656566	1.7391988	1.888095	1565895
1.8585859	2.676768	1.7366930	1.888465	1572045
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1.8585859	2.818182	1.7192170	1.891047	1611538
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1.8585859	2.919192	1.7067920	1.892883	1636617
1.8585859	2.939394	1.7043119	1.893249	1641373
1.8585859	2.959596	1.7018332	1.893615	1646051
1.8585859	2.979798	1.6993561	1.893981	1650652
1.8585859	3.000000	1.6968802	1.894347	1655181
1.8787879	1.000000	1.9679692	1.818218	714620
1.8787879	1.020202	1.9656096	1.818647	709857
1.8787879	1.040404	1.9632520	1.819076	704969
1.8787879	1.060606	1.9608963	1.819504	699948
1.8787879	1.080808	1.9585428	1.819932	694787
1.8787879	1.101010	1.9561914	1.820360	689480
1.8787879	1.121212	1.9538424	1.820787	684017
1.8787879	1.141414	1.9514958	1.821213	678392
1.8787879	1.161616	1.9491519	1.821639	672593
1.8787879	1.181818	1.9468107	1.822065	666612
1.8787879	1.202020	1.9444725	1.822490	660438
1.8787879	1.222222	1.9421375	1.822915	654057
1.8787879	1.242424	1.9398058	1.823339	647458
1.8787879	1.262626	1.9374776	1.823762	640625
1.8787879	1.282828	1.9351533	1.824185	633543
1.8787879	1.303030	1.9328331	1.824607	626194
1.8787879	1.323232	1.9305174	1.825028	618558
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1.8787879	1.363636	1.9259005	1.825867	602336
1.8787879	1.383838	1.9236003	1.826285	593699
1.8787879	1.404040	1.9213062	1.826702	584670
1.8787879	1.424242	1.9190187	1.827118	575216
1.8787879	1.444444	1.9167386	1.827533	565295
1.8787879	1.464646	1.9144665	1.827946	554862
1.8787879	1.484849	1.9122033	1.828357	543864
1.8787879	1.505051	1.9099499	1.828767	532239
1.8787879	1.525252	1.9077077	1.829175	519916
1.8787879	1.545454	1.9054779	1.829580	506809
1.8787879	1.565657	1.9032622	1.829983	492815
1.8787879	1.585859	1.9010626	1.830383	477811
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1.8787879	1.626263	1.8967222	1.831172	444134
1.8787879	1.646465	1.8945883	1.831560	425035
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1.8787879	1.686869	1.8904189	1.832318	380759
1.8787879	1.707071	1.8883989	1.832685	354629
1.8787879	1.727273	1.8864378	1.833042	324883
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1.8787879	2.090909	1.8309034	1.874548	1268441
1.8787879	2.111111	1.8281590	1.874953	1288189
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1.8787879	2.151515	1.8227445	1.875753	1323313
1.8787879	2.171717	1.8200676	1.876149	1339093
1.8787879	2.191919	1.8174076	1.876542	1353891
1.8787879	2.212121	1.8147624	1.876932	1367824
1.8787879	2.232323	1.8121303	1.877321	1380991
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1.8787879	2.434343	1.7863088	1.881136	1483961
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1.8787879	2.555556	1.7710931	1.883384	1530033
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1.8787879	2.595960	1.7660514	1.884128	1543717
1.8787879	2.616162	1.7635353	1.884500	1550297
1.8787879	2.636364	1.7610221	1.884871	1556716
1.8787879	2.656566	1.7585117	1.885242	1562981
1.8787879	2.676768	1.7560040	1.885613	1569101
1.8787879	2.696970	1.7534989	1.885983	1575083
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1.8787879	2.737374	1.7484958	1.886722	1586658
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1.8787879	2.838384	1.7360256	1.888564	1613593
1.8787879	2.858586	1.7335373	1.888932	1618675
1.8787879	2.878788	1.7310507	1.889299	1623666
1.8787879	2.898990	1.7285659	1.889666	1628568
1.8787879	2.919192	1.7260826	1.890033	1633386
1.8787879	2.939394	1.7236009	1.890400	1638122
1.8787879	2.959596	1.7211207	1.890766	1642779
1.8787879	2.979798	1.7186420	1.891132	1647362
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1.8989899	1.121212	1.9734402	1.817223	678947
1.8989899	1.141414	1.9710961	1.817650	673287
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1.8989899	1.323232	1.9501444	1.821459	613051
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1.8989899	1.383838	1.9432389	1.822715	588006
1.8989899	1.404040	1.9409491	1.823131	578906
1.8989899	1.424242	1.9386662	1.823546	569374
1.8989899	1.444444	1.9363908	1.823960	559369
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1.8989899	1.505051	1.9296187	1.825191	526013
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1.8989899	1.545454	1.9251598	1.826002	500326
1.8989899	1.565657	1.9229515	1.826403	486179
1.8989899	1.585859	1.9207601	1.826802	471003
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1.8989899	1.626263	1.9164388	1.827587	436897
1.8989899	1.646465	1.9143162	1.827973	417528
1.8989899	1.666667	1.9122258	1.828353	396214
1.8989899	1.686869	1.9101746	1.828726	372534
1.8989899	1.707071	1.9081722	1.829090	345911
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1.8989899	1.747475	1.9043758	1.829780	280186

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1.8989899	1.787879	1.9010635	1.830383	185608
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1.8989899	1.828283	1.8990170	1.830755	16177
1.8989899	1.848485	1.8189706	1.875556	5000000
1.8989899	1.868687	1.8915033	1.865596	409115
1.8989899	1.888889	1.8829195	1.866864	771479
1.8989899	1.909091	1.8782515	1.867553	903644
1.8989899	1.929293	1.8744227	1.868119	986442
1.8989899	1.949495	1.8709733	1.868629	1046946
1.8989899	1.969697	1.8677414	1.869106	1094691
1.8989899	1.989899	1.8646508	1.869563	1134158
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1.8989899	2.111111	1.8475411	1.872090	1287405
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1.8989899	2.171717	1.8394404	1.873287	1337750
1.8989899	2.191919	1.8367773	1.873680	1352405
1.8989899	2.212121	1.8341291	1.874071	1366212
1.8989899	2.232323	1.8314940	1.874461	1379267
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1.8989899	2.272727	1.8262584	1.875234	1403427
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1.8989899	2.474747	1.8005527	1.879032	1497729
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1.8989899	2.939394	1.7428913	1.887550	1634934
1.8989899	2.959596	1.7404096	1.887916	1639573
1.8989899	2.979798	1.7379294	1.888283	1644136
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1.9191919	2.535353	1.8122725	1.877300	1517650
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1.9191919	2.595960	1.8046925	1.878420	1538248
1.9191919	2.616162	1.8021724	1.878792	1544764
1.9191919	2.636364	1.7996554	1.879164	1551122
1.9191919	2.656566	1.7971412	1.879536	1557328
1.9191919	2.676768	1.7946298	1.879907	1563391
1.9191919	2.696970	1.7921210	1.880277	1569318
1.9191919	2.717172	1.7896147	1.880647	1575115
1.9191919	2.737374	1.7871107	1.881017	1580789
1.9191919	2.757576	1.7846091	1.881387	1586344

1.9191919	2.777778	1.7821096	1.881756	1591787
1.9191919	2.797980	1.7796123	1.882125	1597123
1.9191919	2.818182	1.7771169	1.882494	1602355
1.9191919	2.838384	1.7746235	1.882862	1607488
1.9191919	2.858586	1.7721320	1.883230	1612527
1.9191919	2.878788	1.7696422	1.883598	1617475
1.9191919	2.898990	1.7671542	1.883965	1622336
1.9191919	2.919192	1.7646678	1.884333	1627113
1.9191919	2.939394	1.7621831	1.884700	1631809
1.9191919	2.959596	1.7596999	1.885067	1636428
1.9191919	2.979798	1.7572182	1.885433	1640972
1.9191919	3.000000	1.7547379	1.885800	1645445
1.9393939	1.000000	2.0267297	1.807534	700173
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1.9393939	1.161616	2.0079673	1.810946	657384
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1.9393939	1.242424	1.9986549	1.812639	631759
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1.9393939	1.282828	1.9940215	1.813481	617559
1.9393939	1.303030	1.9917114	1.813901	610055
1.9393939	1.323232	1.9894063	1.814320	602254
1.9393939	1.343434	1.9871065	1.814739	594135
1.9393939	1.363636	1.9848124	1.815156	585670
1.9393939	1.383838	1.9825245	1.815572	576832
1.9393939	1.404040	1.9802434	1.815986	567588
1.9393939	1.424242	1.9779698	1.816400	557900
1.9393939	1.444444	1.9757043	1.816812	547727
1.9393939	1.464646	1.9734478	1.817222	537018
1.9393939	1.484849	1.9712013	1.817630	525718
1.9393939	1.505051	1.9689659	1.818037	513761
1.9393939	1.525252	1.9667430	1.818441	501069
1.9393939	1.545454	1.9645341	1.818843	487549
1.9393939	1.565657	1.9623413	1.819241	473090
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1.9393939	1.606061	1.9580134	1.820028	440787
1.9393939	1.626263	1.9558850	1.820415	422569
1.9393939	1.646465	1.9537861	1.820797	402639
1.9393939	1.666667	1.9517226	1.821172	380651
1.9393939	1.686869	1.9497028	1.821539	356145
1.9393939	1.707071	1.9477378	1.821897	328485
1.9393939	1.727273	1.9458436	1.822241	296760
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1.9393939	1.787879	1.9409180	1.823136	158385
1.9393939	1.808081	1.9398024	1.823339	82403
1.9393939	1.828283	1.8574186	1.869853	5000000
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1.9393939	1.909091	1.9168992	1.861844	924647
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1.9393939	1.949495	1.9097401	1.862902	1055290
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1.9393939	2.171717	1.8781872	1.867563	1335163
1.9393939	2.191919	1.8755181	1.867957	1349542
1.9393939	2.212121	1.8728640	1.868349	1363104
1.9393939	2.232323	1.8702232	1.868739	1375937
1.9393939	2.252525	1.8675943	1.869128	1388120
1.9393939	2.272727	1.8649763	1.869514	1399717
1.9393939	2.292929	1.8623680	1.869900	1410784
1.9393939	2.313131	1.8597687	1.870284	1421369
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1.9393939	2.414141	1.8468824	1.872187	1468367
1.9393939	2.434343	1.8443235	1.872565	1476784
1.9393939	2.454546	1.8417699	1.872943	1484926
1.9393939	2.474747	1.8392210	1.873319	1492814
1.9393939	2.494950	1.8366768	1.873695	1500462
1.9393939	2.515151	1.8341367	1.874070	1507886
1.9393939	2.535353	1.8316007	1.874445	1515099
1.9393939	2.555556	1.8290685	1.874819	1522114
1.9393939	2.575758	1.8265399	1.875193	1528943
1.9393939	2.595960	1.8240146	1.875566	1535595
1.9393939	2.616162	1.8214926	1.875938	1542080
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1.9393939	2.656566	1.8164576	1.876682	1554585
1.9393939	2.676768	1.8139444	1.877053	1560620
1.9393939	2.696970	1.8114338	1.877424	1566520
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1.9393939	2.797980	1.7989164	1.879273	1594203
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1.9393939	2.838384	1.7939244	1.880011	1604524
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1.9393939	2.919192	1.7839624	1.881482	1624067
1.9393939	2.939394	1.7814762	1.881850	1628744
1.9393939	2.959596	1.7789915	1.882217	1633344
1.9393939	2.979798	1.7765083	1.882584	1637869
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1.9595960	1.424242	1.9976259	1.812826	552263
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1.9595960	1.707071	1.9675302	1.818298	319764
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1.9595960	1.787879	1.9608689	1.819509	144296
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1.9595960	1.969697	1.9259139	1.860512	1102818
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1.9797980	1.424242	2.0172849	1.809252	546687
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1.9797980	1.545454	2.0039226	1.811681	475001
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1.9797980	1.585859	1.9995889	1.812469	444320
1.9797980	1.606061	1.9974553	1.812857	427124
1.9797980	1.626263	1.9953488	1.813240	408409
1.9797980	1.646465	1.9932748	1.813617	387888
1.9797980	1.666667	1.9912401	1.813987	365188
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1.9797980	1.909091	1.9555689	1.856132	942785
1.9797980	1.929293	1.9518934	1.856674	1010685
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1.9797980	2.010101	1.9392340	1.858545	1172028
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1.9797980	2.151515	1.9196272	1.861441	1317693
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1.9797980	2.212121	1.9116008	1.862627	1360139
1.9797980	2.232323	1.9089544	1.863018	1372759
1.9797980	2.252525	1.9063201	1.863407	1384750
1.9797980	2.272727	1.9036966	1.863794	1396171
1.9797980	2.292929	1.9010831	1.864181	1407078
1.9797980	2.313131	1.8984786	1.864565	1417515
1.9797980	2.333333	1.8958823	1.864949	1427524
1.9797980	2.353535	1.8932937	1.865331	1437140
1.9797980	2.373737	1.8907120	1.865713	1446394
1.9797980	2.393939	1.8881369	1.866093	1455312
1.9797980	2.414141	1.8855679	1.866472	1463921
1.9797980	2.434343	1.8830045	1.866851	1472242
1.9797980	2.454546	1.8804463	1.867229	1480294
1.9797980	2.474747	1.8778931	1.867606	1488095
1.9797980	2.494950	1.8753445	1.867983	1495662
1.9797980	2.515151	1.8728003	1.868359	1503009
1.9797980	2.535353	1.8702601	1.868734	1510149
1.9797980	2.555556	1.8677239	1.869109	1517094
1.9797980	2.575758	1.8651913	1.869483	1523856
1.9797980	2.595960	1.8626621	1.869856	1530444
1.9797980	2.616162	1.8601363	1.870229	1536868
1.9797980	2.636364	1.8576136	1.870602	1543136
1.9797980	2.656566	1.8550938	1.870974	1549257
1.9797980	2.676768	1.8525769	1.871346	1555238
1.9797980	2.696970	1.8500627	1.871718	1561085
1.9797980	2.717172	1.8475511	1.872089	1566805
1.9797980	2.737374	1.8450419	1.872459	1572404
1.9797980	2.757576	1.8425351	1.872830	1577888

1.9797980	2.777778	1.8400306	1.873200	1583261
1.9797980	2.797980	1.8375283	1.873569	1588528
1.9797980	2.818182	1.8350280	1.873939	1593694
1.9797980	2.838384	1.8325298	1.874308	1598763
1.9797980	2.858586	1.8300335	1.874677	1603739
1.9797980	2.878788	1.8275390	1.875045	1608626
1.9797980	2.898990	1.8250464	1.875413	1613427
1.9797980	2.919192	1.8225554	1.875781	1618146
1.9797980	2.939394	1.8200662	1.876149	1622785
1.9797980	2.959596	1.8175785	1.876516	1627348
1.9797980	2.979798	1.8150925	1.876884	1631837
1.9797980	3.000000	1.8126079	1.877251	1636256
2.0000000	1.000000	2.0855091	1.796847	686323
2.0000000	1.020202	2.0831620	1.797274	681395
2.0000000	1.040404	2.0808172	1.797700	676335
2.0000000	1.060606	2.0784747	1.798126	671136
2.0000000	1.080808	2.0761348	1.798552	665791
2.0000000	1.101010	2.0737975	1.798977	660292
2.0000000	1.121212	2.0714630	1.799401	654630
2.0000000	1.141414	2.0691315	1.799825	648797
2.0000000	1.161616	2.0668032	1.800248	642781
2.0000000	1.181818	2.0644783	1.800671	636573
2.0000000	1.202020	2.0621569	1.801093	630160
2.0000000	1.222222	2.0598393	1.801514	623530
2.0000000	1.242424	2.0575257	1.801935	616667
2.0000000	1.262626	2.0552166	1.802355	609557
2.0000000	1.282828	2.0529121	1.802774	602182
2.0000000	1.303030	2.0506126	1.803192	594521
2.0000000	1.323232	2.0483185	1.803609	586555
2.0000000	1.343434	2.0460303	1.804025	578258
2.0000000	1.363636	2.0437484	1.804440	569604
2.0000000	1.383838	2.0414734	1.804854	560562
2.0000000	1.404040	2.0392060	1.805266	551098
2.0000000	1.424242	2.0369468	1.805677	541172
2.0000000	1.444444	2.0346967	1.806086	530739
2.0000000	1.464646	2.0324566	1.806493	519747
2.0000000	1.484849	2.0302277	1.806898	508135
2.0000000	1.505051	2.0280112	1.807301	495833
2.0000000	1.525252	2.0258088	1.807702	482756
2.0000000	1.545454	2.0236221	1.808099	468805
2.0000000	1.565657	2.0214536	1.808494	453859
2.0000000	1.585859	2.0193059	1.808884	437769
2.0000000	1.606061	2.0171824	1.809270	420354
2.0000000	1.626263	2.0150874	1.809651	401381
2.0000000	1.646465	2.0130264	1.810026	380555
2.0000000	1.666667	2.0110068	1.810393	357482
2.0000000	1.686869	2.0090383	1.810751	331635
2.0000000	1.707071	2.0071350	1.811097	302271
2.0000000	1.727273	2.0053171	1.811427	268303
2.0000000	1.747475	2.0036161	1.811737	228049

2.0000000	1.767677	2.0020852	1.812015	178691
2.0000000	1.787879	2.0008235	1.812245	114957
2.0000000	1.808081	2.0000542	1.812385	25038
2.0000000	1.828283	1.9116848	1.861802	5000000
2.0000000	1.848485	1.9094142	1.862139	5000000
2.0000000	1.868687	1.9844311	1.851868	702689
2.0000000	1.888889	1.9790565	1.852662	859427
2.0000000	1.909091	1.9749103	1.853274	950973
2.0000000	1.929293	1.9712648	1.853813	1015959
2.0000000	1.949495	1.9678935	1.854311	1066420
2.0000000	1.969697	1.9646956	1.854783	1107705
2.0000000	1.989899	1.9616176	1.855238	1142664
2.0000000	2.010101	1.9586273	1.855680	1172994
2.0000000	2.030303	1.9557043	1.856111	1199790
2.0000000	2.050505	1.9528343	1.856535	1223800
2.0000000	2.070707	1.9500073	1.856953	1245557
2.0000000	2.090909	1.9472159	1.857365	1265453
2.0000000	2.111111	1.9444545	1.857773	1283788
2.0000000	2.131313	1.9417186	1.858178	1300793
2.0000000	2.151515	1.9390047	1.858578	1316652
2.0000000	2.171717	1.9363101	1.858977	1331513
2.0000000	2.191919	1.9336325	1.859372	1345498
2.0000000	2.212121	1.9309699	1.859765	1358707
2.0000000	2.232323	1.9283208	1.860157	1371224
2.0000000	2.252525	1.9256838	1.860546	1383120
2.0000000	2.272727	1.9230577	1.860934	1394456
2.0000000	2.292929	1.9204415	1.861321	1405284
2.0000000	2.313131	1.9178345	1.861706	1415650
2.0000000	2.333333	1.9152357	1.862090	1425592
2.0000000	2.353535	1.9126446	1.862472	1435146
2.0000000	2.373737	1.9100606	1.862854	1444342
2.0000000	2.393939	1.9074832	1.863235	1453207
2.0000000	2.414141	1.9049119	1.863615	1461766
2.0000000	2.434343	1.9023462	1.863994	1470039
2.0000000	2.454546	1.8997858	1.864372	1478047
2.0000000	2.474747	1.8972305	1.864750	1485806
2.0000000	2.494950	1.8946798	1.865126	1493333
2.0000000	2.515151	1.8921334	1.865503	1500642
2.0000000	2.535353	1.8895913	1.865878	1507746
2.0000000	2.555556	1.8870530	1.866253	1514657
2.0000000	2.575758	1.8845184	1.866628	1521386
2.0000000	2.595960	1.8819874	1.867001	1527942
2.0000000	2.616162	1.8794596	1.867375	1534336
2.0000000	2.636364	1.8769350	1.867748	1540576
2.0000000	2.656566	1.8744135	1.868120	1546669
2.0000000	2.676768	1.8718948	1.868492	1552623
2.0000000	2.696970	1.8693788	1.868864	1558444
2.0000000	2.717172	1.8668654	1.869235	1564139
2.0000000	2.737374	1.8643546	1.869606	1569714
2.0000000	2.757576	1.8618461	1.869977	1575174

2.0000000	2.777778	1.8593399	1.870347	1580524
2.0000000	2.797980	1.8568360	1.870717	1585769
2.0000000	2.818182	1.8543341	1.871087	1590914
2.0000000	2.838384	1.8518343	1.871456	1595962
2.0000000	2.858586	1.8493364	1.871825	1600918
2.0000000	2.878788	1.8468404	1.872194	1605785
2.0000000	2.898990	1.8443462	1.872562	1610567
2.0000000	2.919192	1.8418538	1.872930	1615267
2.0000000	2.939394	1.8393630	1.873298	1619888
2.0000000	2.959596	1.8368739	1.873666	1624433
2.0000000	2.979798	1.8343864	1.874033	1628904
2.0000000	3.000000	1.8319004	1.874401	1633306