

Interpretable Gene Set Enrichment Analysis

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Table of contents

Preface

Gene set enrichment analysis is ubiquitous in genetics and genomics research, providing a powerful tool for interpreting the genes that come out of e.g. differential expression analysis. However, the challenge of interpreting a long list of genes is often replaced with the challenge of interpreting a long list of gene sets.

In this work we perform gene set enrichment analysis via sparse multiple regression.

1 GSEA with logistic SuSiE, simulated example

1.1 Loading gene sets from gseasusie

`gseasusie::load_gene_sets` is a helper function for getting gene sets from different sources in a unified format. It gets curated pathways from the `WebGestaltR`, `MSigDb` pathways from `msigdb`.

```
#devtools::install_github('karltayeb/gseasusie')
c2 <- gseasusie::load_msigdb_geneset_x('C2')
```

loading gene set from `msigdb`: C2

We get a flat list where each row is a (gene, gene set) pair.

```
head(c2$geneSet)
```

	geneSet	gene
1	M1423	79026
2	M1423	214
3	M1423	91369
4	M1423	8289
5	M1423	594
6	M1423	146556

We also have access to a human readable description of each gene-set

```
head(c2$geneSetDes)
```

	geneSet	gs_cat	gs_subcat
1	M1423	C2	CGP
2	M1458	C2	CGP
3	M1481	C2	CGP
4	M1439	C2	CGP
5	M2509	C2	CGP
6	M2096	C2	CGP

1
2
3
4
5

6 Genes down-regulated in the RCC4 cells (renal cell carcinoma, RCC) expressing VHL [GeneID=

Finally, we have a sparse binary matrix encoding gene set membership.

```
dim(c2$X)
```

Loading required package: Matrix

NULL

1.2 Using logistic SuSiE for gene set enrichment analysis

Point `reticulate` to a virtual environment with the `gibss` package installed.

```
library(reticulate)
use_virtualenv('gibss')
```

In this simulation we select 5 random gene sets from the MSigDB C2 (“Curate gene sets”) to be enriched. Genes have background log odds of -3 while membership in each gene set increases the log odds by two. The vast majority of genes in this simulation belong to exactly 1 or 0 gene sets.

```
import numpy as np
# a simple simulation
np.random.seed(1)
X = r.c2['X'].toarray().T
```

```

beta0 = -3
beta = np.zeros(X.shape[0])
beta[np.random.choice(beta.size, 5, replace=False)] = 2.
logit = beta @ X + beta0
y = np.random.binomial(1, 1/(1 + np.exp(-logit)))

```

```

gibss <- reticulate::import('gibss')

# get simulation from python session
# just because we want to keep the
X <- py$X
y <- py$y

tictoc::tic('fitting SER')
serfit <- gibss$susie$fit_logistic_susie2(X, y, L=1, maxiter=1)
tictoc::toc()

```

fitting SER: 20.903 sec elapsed

```

tictoc::tic('fitting SuSiE')
fit <- gibss$susie$fit_logistic_susie2(X, y, L=10, maxiter=10)
tictoc::toc()

```

fitting SuSiE: 156.012 sec elapsed

```

compute_cs <- function(alpha, coverage=0.95){
  idx <- rev(order(alpha))
  mass <- cumsum(alpha[idx])
  last = which(mass >= coverage)[1]
  cs <- idx[1:last]
  return(list(cs=cs, alpha=alpha[cs], coverage = mass[last], target_coverage=coverage))
}

gseafit <- fit
idx <- which(py$beta !=0)
alpha <- gseafit$alpha
cs <- purrr::map(1:nrow(alpha), ~compute_cs(alpha[.x,]))

```

```
# the first 4 components have evidence of association.
gseafit$lbfbf
```

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]
[1,]	0.2431641	-0.2924805	-0.2539062	-0.3037109	-0.2539062	-0.5317383
[2,]	0.3041992	-0.1372070	-0.2856445	-0.2822266	-0.2280273	-0.5375977
[3,]	0.2812500	-0.2255859	-0.2841797	-0.3261719	-0.2207031	-0.5351562
[4,]	0.2729492	-0.2070312	-0.2836914	-0.3242188	-0.2172852	-0.5351562
[5,]	0.2700195	-0.2001953	-0.3090820	-0.3251953	-0.2148438	-0.5336914
[6,]	0.2685547	-0.1977539	-0.3085938	-0.3242188	-0.2143555	-0.5336914
[7,]	0.2670898	-0.1958008	-0.3081055	-0.3247070	-0.2133789	-0.5332031
[8,]	0.2651367	-0.1953125	-0.3090820	-0.3247070	-0.2138672	-0.5336914
[9,]	0.2641602	-0.1938477	-0.3090820	-0.3247070	-0.2128906	-0.5336914
[10,]	0.2626953	-0.1933594	-0.3095703	-0.3247070	-0.2128906	-0.5341797

	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]
[1,]	-0.2026367	0.04052734	-0.1923828	0.07519531	-0.06152344	0.8774414
[2,]	-0.2641602	0.22314453	-0.2319336	0.14111328	0.06494141	-0.5390625
[3,]	-0.2524414	0.09130859	-0.3188477	0.21630859	-0.06591797	-0.4990234
[4,]	-0.2416992	0.11279297	-0.3051758	0.21044922	-0.04882812	-0.5849609
[5,]	-0.2397461	0.12060547	-0.3056641	0.20898438	-0.21972656	-0.5781250
[6,]	-0.2387695	0.12255859	-0.3046875	0.20800781	-0.21582031	-0.5771484
[7,]	-0.2368164	0.12548828	-0.3041992	0.20654297	-0.21289062	-0.5761719
[8,]	-0.2373047	0.12646484	-0.3041992	0.20458984	-0.21093750	-0.5761719
[9,]	-0.2353516	0.12939453	-0.3032227	0.20312500	-0.20849609	-0.5751953
[10,]	-0.2353516	0.13085938	-0.3032227	0.20214844	-0.20605469	-0.5747070

	[,13]	[,14]	[,15]	[,16]	[,17]	[,18]	[,19]
[1,]	-1.651367	-1.674805	-1.222656	-1.274414	-0.9453125	-0.8432617	-1.0444336
[2,]	-1.615234	-1.921875	-1.216309	-1.329102	-0.8012695	-0.9316406	-0.9702148
[3,]	-1.549805	-1.937012	-1.203125	-1.318359	-0.7988281	-0.9301758	-0.8842773
[4,]	-1.556152	-1.903320	-1.186523	-1.320801	-0.8139648	-0.9360352	-0.9204102
[5,]	-1.563965	-1.911133	-1.178711	-1.314453	-0.8183594	-0.9375000	-0.9340820
[6,]	-1.564941	-1.912598	-1.177734	-1.313965	-0.8183594	-0.9370117	-0.9340820
[7,]	-1.565918	-1.914062	-1.177734	-1.313965	-0.8183594	-0.9365234	-0.9350586
[8,]	-1.567383	-1.916016	-1.178711	-1.314453	-0.8188477	-0.9375000	-0.9365234
[9,]	-1.568359	-1.916992	-1.178711	-1.314941	-0.8193359	-0.9370117	-0.9370117
[10,]	-1.569824	-1.918945	-1.179199	-1.314941	-0.8198242	-0.9375000	-0.9384766

	[,20]	[,21]	[,22]	[,23]	[,24]	[,25]
[1,]	-1.5883789	-1.827637	-1.1889648	-1.130371	-0.7910156	0.61035156
[2,]	0.3735352	-1.866699	-0.7939453	-1.122070	-0.7993164	-0.08789062
[3,]	0.2568359	-1.864746	-0.8281250	-1.117676	-0.7172852	-0.12500000
[4,]	0.4916992	-1.858398	-0.7529297	-1.124512	-0.7304688	-0.23730469
[5,]	0.4384766	-1.855469	-0.7724609	-1.120605	-0.7353516	-0.22265625

[6,]	0.4267578	-1.854980	-0.7744141	-1.120605	-0.7353516	-0.21923828
[7,]	0.4155273	-1.854980	-0.7773438	-1.120605	-0.7363281	-0.21728516
[8,]	0.4038086	-1.855469	-0.7807617	-1.121094	-0.7377930	-0.21630859
[9,]	0.3930664	-1.854980	-0.7822266	-1.120117	-0.7387695	-0.21533203
[10,]	0.3823242	-1.854980	-0.7856445	-1.120605	-0.7392578	-0.21386719
	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]
[1,]	-0.4882812	2.735352	-1.0253906	-0.048828125	-0.9326172	-1.385254
[2,]	-0.5097656	-1.531738	-0.9829102	0.003906250	-1.2734375	-1.252930
[3,]	-0.6889648	-1.541504	-0.9619141	-0.003417969	-1.2895508	-1.311035
[4,]	-0.7451172	-1.528320	-0.9814453	-0.005859375	-1.2949219	-1.302734
[5,]	-0.7373047	-1.531738	-0.9877930	-0.005371094	-1.2895508	-1.310059
[6,]	-0.7358398	-1.532715	-0.9892578	-0.005859375	-1.2885742	-1.311035
[7,]	-0.7343750	-1.533203	-0.9907227	-0.006835938	-1.2880859	-1.311035
[8,]	-0.7329102	-1.534668	-0.9921875	-0.007812500	-1.2880859	-1.312500
[9,]	-0.7314453	-1.534668	-0.9926758	-0.008300781	-1.2875977	-1.312500
[10,]	-0.7304688	-1.535645	-0.9936523	-0.009765625	-1.2871094	-1.313965
	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]
[1,]	-0.3925781	1.2441406	-0.5063477	-0.6499023	-0.3378906	1.329102
[2,]	-0.4028320	0.8496094	-0.5053711	-0.5053711	-0.1948242	-1.343750
[3,]	-0.4599609	0.9155273	-0.4863281	-0.7983398	-0.2119141	-1.308105
[4,]	-0.4501953	0.9458008	-0.4770508	-0.7915039	-0.2177734	-1.234863
[5,]	-0.4462891	0.9565430	-0.4765625	-0.7866211	-0.2197266	-1.243164
[6,]	-0.4462891	0.9565430	-0.4736328	-0.7871094	-0.2202148	-1.244629
[7,]	-0.4462891	0.9565430	-0.4736328	-0.7871094	-0.2207031	-1.245117
[8,]	-0.4472656	0.9560547	-0.4731445	-0.7875977	-0.2226562	-1.248047
[9,]	-0.4477539	0.9560547	-0.4721680	-0.7875977	-0.2241211	-1.249512
[10,]	-0.4477539	0.9560547	-0.4721680	-0.7885742	-0.2246094	-1.251953
	[,38]	[,39]	[,40]	[,41]	[,42]	[,43]
[1,]	-1.0444336	-0.7514648	-1.2446289	-0.06152344	-0.3920898	-0.3237305
[2,]	-0.9824219	-0.9067383	-0.7543945	0.06494141	-0.5961914	-0.3090820
[3,]	-0.9833984	-0.9072266	-0.7539062	0.09912109	-0.5878906	-0.3276367
[4,]	-1.0014648	-0.9072266	-0.7978516	0.11572266	-0.5820312	-0.3256836
[5,]	-0.9990234	-0.9077148	-0.8115234	0.12109375	-0.5791016	-0.3251953
[6,]	-0.9975586	-0.9072266	-0.8149414	0.12158203	-0.5786133	-0.3247070
[7,]	-0.9980469	-0.9077148	-0.8188477	0.12109375	-0.5776367	-0.3242188
[8,]	-0.9975586	-0.9082031	-0.8237305	0.12060547	-0.5771484	-0.3242188
[9,]	-0.9970703	-0.9077148	-0.8271484	0.12109375	-0.5766602	-0.3242188
[10,]	-0.9965820	-0.9082031	-0.8315430	0.12060547	-0.5751953	-0.3247070
	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]
[1,]	-1.109375	-0.6953125	-0.9394531	-0.3237305	-0.6308594	1.1093750
[2,]	-1.213379	-0.5961914	-0.9291992	-0.3085938	-0.5771484	0.8388672
[3,]	-1.210938	-0.4731445	-0.9199219	-0.3276367	-0.6132812	0.4819336
[4,]	-1.215820	-0.4135742	-0.9233398	-0.3256836	-0.5976562	0.5151367

[5,]	-1.216309	-0.4218750	-0.9238281	-0.3251953	-0.5903320	0.5288086
[6,]	-1.217285	-0.4248047	-0.9233398	-0.3242188	-0.5888672	0.5302734
[7,]	-1.217285	-0.4272461	-0.9233398	-0.3232422	-0.5874023	0.5302734
[8,]	-1.218750	-0.4316406	-0.9238281	-0.3242188	-0.5874023	0.5312500
[9,]	-1.218750	-0.4345703	-0.9238281	-0.3237305	-0.5849609	0.5322266
[10,]	-1.219238	-0.4384766	-0.9238281	-0.3242188	-0.5849609	0.5322266
	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]
[1,]	-0.03759766	-0.037597656	-0.4145508	-0.2714844	-0.5439453	-0.3237305
[2,]	-0.04980469	0.018066406	-0.4213867	-0.3188477	-0.5366211	-0.3164062
[3,]	-0.05419922	0.007812500	-0.3891602	-0.4375000	-0.5712891	-0.3002930
[4,]	-0.05468750	0.007324219	-0.3994141	-0.4316406	-0.5654297	-0.3012695
[5,]	-0.05517578	0.005859375	-0.3022461	-0.4296875	-0.5610352	-0.3017578
[6,]	-0.05419922	0.005859375	-0.3032227	-0.4296875	-0.5600586	-0.3022461
[7,]	-0.05517578	0.005371094	-0.3032227	-0.4301758	-0.5585938	-0.3032227
[8,]	-0.05566406	0.004394531	-0.3046875	-0.4306641	-0.5581055	-0.3041992
[9,]	-0.05566406	0.003417969	-0.3056641	-0.4306641	-0.5571289	-0.3051758
[10,]	-0.05615234	0.003417969	-0.3061523	-0.4301758	-0.5571289	-0.3051758
	[,56]	[,57]	[,58]	[,59]	[,60]	[,61]
[1,]	-1.068359	0.6455078	-0.5209961	-0.2187500	-0.3305664	-0.12011719
[2,]	-1.135742	1.3691406	-0.3505859	-0.2724609	-0.4233398	-0.04541016
[3,]	-1.141113	1.3061523	-0.1728516	-0.2314453	-0.2631836	-0.02587891
[4,]	-1.136719	1.2827148	-0.1875000	-0.2377930	-0.2768555	-0.01660156
[5,]	-1.140625	1.2729492	-0.1909180	-0.2392578	-0.2797852	-0.01220703
[6,]	-1.140625	1.2651367	-0.1948242	-0.2402344	-0.2812500	-0.01220703
[7,]	-1.139648	1.2583008	-0.1987305	-0.2416992	-0.2822266	-0.01171875
[8,]	-1.140625	1.2514648	-0.2026367	-0.2436523	-0.2841797	-0.01220703
[9,]	-1.139648	1.2446289	-0.2070312	-0.2446289	-0.2851562	-0.01171875
[10,]	-1.140625	1.2382812	-0.2109375	-0.2456055	-0.2866211	-0.01269531
	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]
[1,]	-0.6733398	-0.2954102	0.45654297	-0.4267578	-0.074218750	-1.0737305
[2,]	-0.6582031	-0.1962891	-0.14501953	-0.3618164	0.002929688	-0.8608398
[3,]	-0.6342773	-0.2148438	-0.09472656	-0.1870117	-0.248535156	-0.8896484
[4,]	-0.5991211	-0.2207031	-0.07324219	-0.2021484	-0.241210938	-0.9179688
[5,]	-0.6010742	-0.2231445	-0.06445312	-0.2070312	-0.238281250	-0.9272461
[6,]	-0.6015625	-0.2241211	-0.06347656	-0.2099609	-0.237304688	-0.9301758
[7,]	-0.6015625	-0.2250977	-0.06298828	-0.2124023	-0.237304688	-0.9321289
[8,]	-0.6030273	-0.2260742	-0.06298828	-0.2158203	-0.237304688	-0.9355469
[9,]	-0.6035156	-0.2275391	-0.06201172	-0.2182617	-0.235839844	-0.9375000
[10,]	-0.6035156	-0.2294922	-0.06298828	-0.2211914	-0.236328125	-0.9394531
	[,68]	[,69]	[,70]	[,71]	[,72]	[,73]
[1,]	1.3232422	-0.5219727	-1.1259766	0.5883789	-0.2714844	-0.4995117
[2,]	1.1020508	-0.3559570	-0.2651367	0.3813477	-0.1684570	-0.4658203
[3,]	1.0434570	-0.3085938	-0.3813477	0.3271484	-0.1904297	-0.4580078

[4,]	1.0214844	-0.2856445	-0.4282227	0.6137695	-0.1972656	-0.4511719
[5,]	1.0136719	-0.2812500	-0.4433594	0.6054688	-0.1987305	-0.4477539
[6,]	1.0107422	-0.2807617	-0.4477539	0.6035156	-0.1987305	-0.4472656
[7,]	1.0068359	-0.2802734	-0.4526367	0.6015625	-0.1982422	-0.4462891
[8,]	1.0024414	-0.2802734	-0.4570312	0.5991211	-0.2001953	-0.4467773
[9,]	0.9990234	-0.2802734	-0.4619141	0.5971680	-0.2001953	-0.4458008
[10,]	0.9946289	-0.2797852	-0.4663086	0.5947266	-0.2016602	-0.4453125
	[,74]	[,75]	[,76]	[,77]	[,78]	[,79]
[1,]	-0.6445312	-0.5297852	0.7944336	-0.1596680	-0.3598633	-1.033691
[2,]	-0.6333008	-0.5224609	0.9809570	-0.2265625	-0.1679688	-1.123047
[3,]	-0.6425781	-0.5234375	0.9291992	-0.2431641	-0.2412109	-1.140625
[4,]	-0.6420898	-0.5205078	0.9096680	-0.2500000	-0.3588867	-1.139160
[5,]	-0.6425781	-0.5195312	1.0927734	-0.2519531	-0.3520508	-1.139648
[6,]	-0.6425781	-0.5190430	1.0874023	-0.2519531	-0.3510742	-1.139160
[7,]	-0.6425781	-0.5190430	1.0825195	-0.2519531	-0.3496094	-1.139160
[8,]	-0.6435547	-0.5195312	1.0766602	-0.2524414	-0.3500977	-1.139160
[9,]	-0.6430664	-0.5190430	1.0712891	-0.2524414	-0.3486328	-1.138184
[10,]	-0.6440430	-0.5190430	1.0664062	-0.2539062	-0.3481445	-1.138672
	[,80]	[,81]	[,82]	[,83]	[,84]	[,85]
[1,]	-0.6308594	-0.04882812	-0.4863281	0.04296875	0.3139648	-0.3461914
[2,]	-0.6411133	-0.05468750	-0.2827148	0.10742188	0.5166016	-0.3300781
[3,]	-0.6499023	-0.06054688	-0.3139648	0.09326172	0.5283203	-0.3359375
[4,]	-0.6464844	-0.06005859	-0.3237305	0.08740234	0.4843750	-0.3354492
[5,]	-0.6464844	-0.06054688	-0.3276367	0.08740234	0.4746094	-0.3344727
[6,]	-0.6459961	-0.05957031	-0.3281250	0.08740234	0.4702148	-0.3339844
[7,]	-0.6464844	-0.06005859	-0.3286133	0.08691406	0.4658203	-0.3339844
[8,]	-0.6469727	-0.06054688	-0.3300781	0.08691406	0.4609375	-0.3349609
[9,]	-0.6464844	-0.06054688	-0.3305664	0.08642578	0.4565430	-0.3344727
[10,]	-0.6469727	-0.06103516	-0.3310547	0.08544922	0.4526367	-0.3349609
	[,86]	[,87]	[,88]	[,89]	[,90]	[,91]
[1,]	0.01367188	-0.01318359	-1.560547	-0.15087891	0.2924805	0.04589844
[2,]	0.13183594	-0.07666016	-1.471191	0.18798828	0.3476562	-0.15820312
[3,]	0.09130859	-0.18896484	-1.443359	-0.00390625	0.3242188	-0.42871094
[4,]	0.07666016	-0.17626953	-1.442383	-0.40576172	0.7788086	-0.39990234
[5,]	0.07324219	-0.16992188	-1.385742	-0.39501953	0.7753906	-0.38964844
[6,]	0.07226562	-0.16894531	-1.387695	-0.39257812	0.7714844	-0.38769531
[7,]	0.07177734	-0.16796875	-1.389160	-0.39111328	0.7675781	-0.38574219
[8,]	0.06884766	-0.16796875	-1.392090	-0.39062500	0.7631836	-0.38476562
[9,]	0.06787109	-0.16601562	-1.393066	-0.38916016	0.7602539	-0.38232422
[10,]	0.06591797	-0.16552734	-1.395508	-0.38769531	0.7558594	-0.38134766
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[1,]	-0.1782227	-0.2910156	-0.9863281	-0.6635742	-0.5063477	0.0888671875
[2,]	-0.1464844	-0.3168945	-1.0288086	-0.6508789	-0.5668945	0.1689453125

[3,]	-0.2817383	-0.3110352	-1.0527344	-0.6591797	-0.5522461	0.0009765625
[4,]	-0.2783203	-0.3110352	-1.0566406	-0.6591797	-0.5454102	0.0117187500
[5,]	-0.3017578	-0.3110352	-1.0595703	-0.6567383	-0.5419922	0.0151367188
[6,]	-0.3017578	-0.3105469	-1.0595703	-0.6567383	-0.5415039	0.0161132812
[7,]	-0.3007812	-0.3115234	-1.0595703	-0.6562500	-0.5410156	0.0170898438
[8,]	-0.3012695	-0.3120117	-1.0605469	-0.6567383	-0.5415039	0.0166015625
[9,]	-0.3007812	-0.3125000	-1.0605469	-0.6572266	-0.5405273	0.0170898438
[10,]	-0.3017578	-0.3129883	-1.0610352	-0.6567383	-0.5400391	0.0170898438
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[2,]	-0.1962891	-0.9936523	-0.3291016	-0.03320312	-0.5068359	0.10693359
[3,]	-0.2153320	-1.0219727	-0.3305664	-0.04052734	-0.5078125	0.09326172
[4,]	-0.2207031	-1.0288086	-0.3300781	-0.04101562	-0.5048828	0.08789062
[5,]	-0.2226562	-1.0322266	-0.3295898	-0.04003906	-0.5034180	0.08740234
[6,]	-0.2221680	-1.0317383	-0.3286133	-0.03955078	-0.5034180	0.08740234
[7,]	-0.2226562	-1.0322266	-0.3291016	-0.03955078	-0.5029297	0.08789062
[8,]	-0.2226562	-1.0336914	-0.3291016	-0.04003906	-0.5034180	0.08691406
[9,]	-0.2226562	-1.0332031	-0.3291016	-0.04003906	-0.5034180	0.08789062
[10,]	-0.2226562	-1.0341797	-0.3295898	-0.04052734	-0.5034180	0.08691406
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[2,]	0.2841797	0.10644531	-0.4379883	-0.4658203	0.018066406	0.17968750
[3,]	0.2358398	0.09082031	-0.4277344	-0.4926758	0.007812500	0.16210938
[4,]	0.2182617	0.08544922	-0.4199219	-0.4892578	0.006835938	0.15576172
[5,]	0.2124023	0.08447266	-0.4184570	-0.4863281	0.005859375	0.15576172
[6,]	0.2119141	0.08447266	-0.4174805	-0.4848633	0.005859375	0.15576172
[7,]	0.2104492	0.08398438	-0.4179688	-0.4848633	0.004394531	0.15527344
[8,]	0.2080078	0.08398438	-0.4184570	-0.4853516	0.003906250	0.15429688
[9,]	0.2070312	0.08349609	-0.4179688	-0.4848633	0.003417969	0.15429688
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[1,]	-0.20263672	-0.5439453	-1.518066	5.348145	-0.2397461	-0.6831055
[2,]	-0.13183594	-0.6337891	-1.495605	-1.558105	-1.1933594	-0.5493164
[3,]	-0.11279297	-0.6323242	-1.385254	-1.586426	-1.1938477	-0.6523438
[4,]	-0.10253906	-0.6298828	-1.235840	-1.499512	-1.1884766	-0.6357422
[5,]	-0.09863281	-0.6289062	-1.249023	-1.479004	-1.1889648	-0.6308594
[6,]	-0.09765625	-0.6284180	-1.252441	-1.481934	-1.1894531	-0.6298828
[7,]	-0.09667969	-0.6279297	-1.255371	-1.484863	-1.1894531	-0.6284180
[8,]	-0.09716797	-0.6284180	-1.259277	-1.487793	-1.1899414	-0.6284180
[9,]	-0.09619141	-0.6284180	-1.261719	-1.490723	-1.1904297	-0.6274414
[10,]	-0.09570312	-0.6284180	-1.265137	-1.493164	-1.1918945	-0.6274414
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[1,]	-0.9150391	-0.25488281	-0.03759766	-0.5092773	-0.5805664	-0.4702148

[2,]	-0.8310547	-0.12695312	-0.04980469	-0.4765625	-0.6245117	-0.4687500
[3,]	-0.9052734	-0.05224609	-0.05371094	-0.4692383	-0.6528320	-0.4838867
[4,]	-0.9096680	-0.01660156	-0.05419922	-0.4624023	-0.6430664	-0.4882812
[5,]	-0.9111328	-0.33789062	-0.05517578	-0.4609375	-0.6899414	-0.4902344
[6,]	-0.9106445	-0.33642578	-0.05468750	-0.4604492	-0.6894531	-0.4897461
[7,]	-0.9111328	-0.33496094	-0.05419922	-0.4599609	-0.6879883	-0.4902344
[8,]	-0.9121094	-0.33496094	-0.05566406	-0.4594727	-0.6884766	-0.4907227
[9,]	-0.9116211	-0.33447266	-0.05517578	-0.4594727	-0.6879883	-0.4907227
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[3,]	1.1518555	-0.5766602	-0.3691406	-0.2792969	1.337402	-0.2031250
[4,]	1.1293945	-0.5830078	-0.3789062	-0.2822266	1.072754	-0.1904297
[5,]	1.1201172	-0.5864258	-0.3808594	-0.2827148	1.088379	-0.1845703
[6,]	1.1162109	-0.5869141	-0.3818359	-0.2822266	1.090332	-0.1840820
[7,]	1.1118164	-0.5878906	-0.3818359	-0.2822266	1.092773	-0.1826172
[8,]	1.1054688	-0.5888672	-0.3837891	-0.2827148	1.092285	-0.1831055
[9,]	1.1005859	-0.5898438	-0.3842773	-0.2827148	1.093750	-0.1821289
[10,]	1.0957031	-0.5908203	-0.3852539	-0.2832031	1.094238	-0.1816406
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[1,]	-1.938477	4.957031	1.1904297	0.4511719	-1.913574	-1.8378906
[2,]	-1.945801	-1.594727	-0.4423828	-1.0786133	-1.988281	-1.0634766
[3,]	-1.912109	-1.575684	-0.3999023	-1.0644531	-1.975098	-1.0000000
[4,]	-1.916504	-1.614746	-0.3779297	-1.0761719	-1.971680	-0.8359375
[5,]	-1.803223	-1.665039	-0.3686523	-1.0742188	-1.906250	-0.8774414
[6,]	-1.802734	-1.663086	-0.3691406	-1.0732422	-1.905273	-0.8852539
[7,]	-1.802246	-1.661621	-0.3696289	-1.0727539	-1.904785	-0.8925781
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[9,]	-1.802734	-1.659180	-0.3701172	-1.0722656	-1.904785	-0.9062500
[10,]	-1.802734	-1.658203	-0.3710938	-1.0717773	-1.904297	-0.9135742
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[1,]	-0.98974609	1.5786133	2.3217773	1.0639648	-1.708984	10.8916016
[2,]	-0.11132812	-0.9692383	0.8330078	-0.5932617	-1.729492	-0.7187500
[3,]	-0.02734375	-1.2524414	0.5048828	-0.8808594	-1.723145	-0.6440430
[4,]	-0.09277344	-1.2148438	0.5947266	-0.8144531	-1.723633	-0.8022461
[5,]	-0.11572266	-1.2744141	0.2797852	-0.9536133	-1.675293	-0.7812500
[6,]	-0.12255859	-1.2700195	0.2792969	-0.9541016	-1.674316	-0.7768555
[7,]	-0.13037109	-1.2661133	0.2778320	-0.9541016	-1.673828	-0.7729492
[8,]	-0.13867188	-1.2631836	0.2758789	-0.9555664	-1.673828	-0.7700195
[9,]	-0.14599609	-1.2602539	0.2744141	-0.9555664	-1.673828	-0.7656250
[10,]	-0.15332031	-1.2578125	0.2724609	-0.9570312	-1.672852	-0.7636719
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[1,]	2.4707031	-1.752441	-0.6215820	0.2675781	-1.2490234	-0.3203125	
[2,]	-0.3984375	-1.483398	-0.6083984	0.1972656	-0.9887695	-0.3398438	
[3,]	-0.4003906	-1.668945	-0.6450195	0.1806641	-1.1396484	-0.3461914	
[4,]	-0.3178711	-1.619629	-0.6430664	0.3061523	-1.1928711	-0.3471680	
[5,]	-0.4316406	-1.780273	-0.6401367	0.3041992	-1.2285156	-0.3461914	
[6,]	-0.4252930	-1.779297	-0.6401367	0.3037109	-1.2241211	-0.3457031	
[7,]	-0.4208984	-1.779297	-0.6386719	0.3022461	-1.2207031	-0.3457031	
[8,]	-0.4174805	-1.779785	-0.6391602	0.3007812	-1.2182617	-0.3461914	
[9,]	-0.4125977	-1.779297	-0.6381836	0.2988281	-1.2148438	-0.3466797	
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[1,]	-0.2714844	0.2919922	-0.05468750	4.120605	-0.6743164	-0.2338867	
[2,]	-0.2036133	0.4907227	-0.06103516	-1.456543	-0.6259766	-0.2104492	
[3,]	-0.1865234	0.4599609	-0.06494141	-1.414551	-0.6123047	-0.2304688	
[4,]	-0.1757812	0.4477539	-0.06689453	-1.297852	-0.6166992	-0.2343750	
[5,]	-0.1733398	0.4443359	-0.06445312	-1.329102	-0.6186523	-0.2368164	
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[8,]	-0.1699219	0.4345703	-0.06542969	-1.359375	-0.6191406	-0.2382812	
[9,]	-0.1684570	0.4311523	-0.06445312	-1.368652	-0.6191406	-0.2387695	
[10,]	-0.1679688	0.4267578	-0.06591797	-1.377930	-0.6201172	-0.2382812	
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[1,]	-0.1064453	-0.3569336	-1.109375	-1.2016602	-0.2924805	0.6313477	
[2,]	-0.1865234	-0.3837891	-1.123535	-0.7333984	-0.2392578	-1.1030273	
[3,]	-0.1372070	-0.4316406	-1.118652	-0.6230469	-0.1518555	-1.0712891	
[4,]	-0.1455078	-0.4267578	-1.119141	-0.5156250	-0.1831055	-1.0507812	
[5,]	-0.1479492	-0.4248047	-1.119629	-0.5346680	-0.1933594	-1.0493164	
[6,]	-0.1484375	-0.4248047	-1.119141	-0.5371094	-0.1943359	-1.0483398	
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[8,]	-0.1503906	-0.4257812	-1.119629	-0.5434570	-0.1953125	-1.0454102	
[9,]	-0.1513672	-0.4267578	-1.119141	-0.5468750	-0.1958008	-1.0439453	
[10,]	-0.1523438	-0.4272461	-1.119141	-0.5493164	-0.1962891	-1.0434570	
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[1,]	-0.7026367	0.11816406	-0.746582	-0.7778320	-1.341797	-1.071777	2.234375
[2,]	-0.4882812	0.03173828	-1.204590	-0.7788086	-1.221191	-1.064453	-1.301758
[3,]	-0.4916992	0.16748047	-1.277344	-0.7758789	-1.175781	-1.065918	-1.367676
[4,]	-0.4340820	0.14208984	-1.296387	-0.7773438	-1.121094	-1.063477	-1.262207
[5,]	-0.4443359	0.13427734	-1.293457	-0.7749023	-1.133789	-1.062500	-1.269043
[6,]	-0.4467773	0.13281250	-1.292480	-0.7749023	-1.135254	-1.062500	-1.271973
[7,]	-0.4497070	0.13183594	-1.292480	-0.7744141	-1.138184	-1.062012	-1.275391
[8,]	-0.4531250	0.12988281	-1.292480	-0.7758789	-1.141602	-1.062988	-1.278809
[9,]	-0.4550781	0.12792969	-1.291992	-0.7758789	-1.143555	-1.062500	-1.281738
[10,]	-0.4584961	0.12597656	-1.291016	-0.7758789	-1.145996	-1.062988	-1.285156

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[1,]	-0.5273438	-0.25097656	-0.2685547	-0.2841797	-0.5356445	-0.3403320
[2,]	-0.5136719	0.02392578	-0.3769531	-0.3173828	-0.6201172	-0.3339844
[3,]	-0.5180664	0.06396484	-0.3422852	-0.3276367	-0.5581055	-0.2910156
[4,]	-0.5185547	0.04248047	-0.3525391	-0.3286133	-0.5678711	-0.2939453
[5,]	-0.5170898	0.03466797	-0.3564453	-0.3291016	-0.5712891	-0.2939453
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[7,]	-0.5170898	0.02978516	-0.3579102	-0.3295898	-0.5727539	-0.2939453
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[9,]	-0.5175781	0.02441406	-0.3603516	-0.3305664	-0.5747070	-0.2954102
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[2,]	0.6684570	-0.5800781	-0.6030273	-0.5205078	-1.3867188	-1.1762695
[3,]	0.6318359	-0.6044922	-0.4394531	-0.6977539	-1.4179688	-1.0190430
[4,]	0.6176758	-0.5976562	-0.3720703	-0.6772461	-1.4101562	-0.9472656
[5,]	0.6127930	-0.5942383	-0.3784180	-0.6718750	-1.4023438	-0.9565430
[6,]	0.6093750	-0.5932617	-0.3774414	-0.6704102	-1.4008789	-0.9609375
[7,]	0.6059570	-0.5917969	-0.3779297	-0.6684570	-1.4013672	-0.9653320
[8,]	0.6015625	-0.5908203	-0.3793945	-0.6684570	-1.4023438	-0.9707031
[9,]	0.5986328	-0.5898438	-0.3793945	-0.6689453	-1.4018555	-0.9746094
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[1,]	-0.9448242	1.153809	-0.3237305	-0.2539062	-0.01416016	-0.03759766
[2,]	-0.8500977	1.129395	-0.3085938	-0.2280273	-0.03320312	0.10546875
[3,]	-0.8715820	1.215332	-0.3271484	-0.2207031	-0.04052734	0.09326172
[4,]	-0.8979492	1.191895	-0.3256836	-0.2172852	-0.04101562	0.09033203
[5,]	-0.9057617	1.183105	-0.3251953	-0.2148438	-0.03955078	0.08935547
[6,]	-0.9067383	1.178223	-0.3247070	-0.2148438	-0.03955078	0.08984375
[7,]	-0.9077148	1.175781	-0.3247070	-0.2158203	-0.03955078	0.08935547
[8,]	-0.9096680	1.170410	-0.3251953	-0.2163086	-0.04003906	0.08837891
[9,]	-0.9096680	1.166992	-0.3251953	-0.2158203	-0.04101562	0.08837891
[10,]	-0.9121094	1.163086	-0.3251953	-0.2167969	-0.04101562	0.08837891
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[1,]	-0.2041016	-0.4995117	-0.02734375	-0.2041016	-0.2045898	0.02929688
[2,]	-0.2573242	-0.4658203	-0.04199219	-0.1757812	-0.3017578	-0.08544922
[3,]	-0.2539062	-0.4580078	-0.04736328	-0.1699219	-0.3071289	-0.06884766
[4,]	-0.2519531	-0.4511719	-0.04931641	-0.1665039	-0.3056641	-0.06005859
[5,]	-0.2500000	-0.4487305	-0.04882812	-0.1645508	-0.3061523	-0.05761719
[6,]	-0.2495117	-0.4472656	-0.04785156	-0.1635742	-0.3056641	-0.05761719
[7,]	-0.2495117	-0.4462891	-0.04785156	-0.1630859	-0.3061523	-0.05810547
[8,]	-0.2500000	-0.4467773	-0.04833984	-0.1630859	-0.3061523	-0.05957031
[9,]	-0.2495117	-0.4458008	-0.04882812	-0.1630859	-0.3061523	-0.06005859

[10,]	-0.2495117	-0.4458008	-0.04882812	-0.1635742	-0.3061523	-0.06103516
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[2,]	-0.3393555	-0.2929688	0.059082031	1.376465	-0.2021484	-0.3276367
[3,]	-0.3383789	-0.2553711	0.046386719	1.430664	-0.2934570	-0.3247070
[4,]	-0.3349609	-0.2602539	0.042968750	1.456543	-0.2866211	-0.3203125
[5,]	-0.3359375	-0.2617188	0.042968750	1.466797	-0.2827148	-0.3208008
[6,]	-0.3354492	-0.2617188	0.043457031	1.466797	-0.2817383	-0.3193359
[7,]	-0.3344727	-0.2617188	0.042968750	1.464355	-0.2817383	-0.3198242
[8,]	-0.3354492	-0.2636719	0.042480469	1.461426	-0.2822266	-0.3193359
[9,]	-0.3349609	-0.2631836	0.043457031	1.458984	-0.2812500	-0.3183594
[10,]	-0.3349609	-0.2646484	0.042968750	1.455566	-0.2812500	-0.3188477
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[2,]	-0.3208008	0.05273438	-0.3173828	0.25830078	0.5869141	-0.3476562
[3,]	-0.3237305	0.07324219	-0.3256836	0.23876953	0.5541992	-0.3369141
[4,]	-0.3198242	0.08349609	-0.3251953	0.23242188	0.5439453	-0.3374023
[5,]	-0.3198242	0.08789062	-0.3217773	0.23046875	0.5390625	-0.3378906
[6,]	-0.3193359	0.08349609	-0.3222656	0.22851562	0.5366211	-0.3383789
[7,]	-0.3183594	0.08007812	-0.3222656	0.22656250	0.5336914	-0.3378906
[8,]	-0.3188477	0.07617188	-0.3232422	0.22363281	0.5302734	-0.3388672
[9,]	-0.3188477	0.07226562	-0.3237305	0.22216797	0.5283203	-0.3388672
[10,]	-0.3183594	0.06884766	-0.3247070	0.22021484	0.5244141	-0.3393555
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[2,]	0.018066406	0.08984375	0.04248047	0.3076172	-0.3056641	-0.2690430
[3,]	0.007812500	0.07714844	0.03320312	0.3261719	-0.3212891	-0.2822266
[4,]	0.007324219	0.07275391	0.03076172	0.3364258	-0.3076172	-0.2861328
[5,]	0.005859375	0.07519531	0.03027344	0.3408203	-0.3066406	-0.2797852
[6,]	0.005859375	0.07470703	0.02978516	0.3364258	-0.3071289	-0.2797852
[7,]	0.004882812	0.07373047	0.02929688	0.3320312	-0.3076172	-0.2802734
[8,]	0.003906250	0.07226562	0.02734375	0.3271484	-0.3090820	-0.2812500
[9,]	0.003417969	0.07080078	0.02734375	0.3237305	-0.3090820	-0.2817383
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[2,]	-0.3051758	-0.03320312	-0.2568359	-0.3266602	-0.3085938	-0.2016602
[3,]	-0.3134766	-0.04003906	-0.2958984	-0.3281250	-0.3046875	-0.1977539
[4,]	-0.3144531	-0.04101562	-0.2934570	-0.3266602	-0.3012695	-0.1928711
[5,]	-0.3095703	-0.04003906	-0.3027344	-0.3251953	-0.3032227	-0.1909180
[6,]	-0.3105469	-0.04003906	-0.3027344	-0.3247070	-0.3022461	-0.1904297
[7,]	-0.3105469	-0.03906250	-0.3027344	-0.3242188	-0.3017578	-0.1909180
[8,]	-0.3110352	-0.03906250	-0.3027344	-0.3251953	-0.3017578	-0.1918945

[9,]	-0.3110352	-0.03808594	-0.3022461	-0.3256836	-0.3017578	-0.1918945
[10,]	-0.3120117	-0.03808594	-0.3032227	-0.3251953	-0.3017578	-0.1923828
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[2,]	-0.3222656	0.1777344	-0.04980469	-0.2641602	-0.3208008	0.05273438
[3,]	-0.2939453	0.2563477	-0.05371094	-0.2524414	-0.3237305	0.07324219
[4,]	-0.2973633	0.2500000	-0.05468750	-0.2416992	-0.3198242	0.08349609
[5,]	-0.2988281	0.2475586	-0.05371094	-0.2465820	-0.3198242	0.08789062
[6,]	-0.2983398	0.2456055	-0.05273438	-0.2451172	-0.3188477	0.08593750
[7,]	-0.2978516	0.2421875	-0.05322266	-0.2431641	-0.3188477	0.08496094
[8,]	-0.2983398	0.2387695	-0.05371094	-0.2426758	-0.3198242	0.08251953
[9,]	-0.2978516	0.2358398	-0.05468750	-0.2416992	-0.3188477	0.08105469
[10,]	-0.2983398	0.2324219	-0.05468750	-0.2407227	-0.3193359	0.07958984
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[2,]	0.02929688	-0.01171875	-0.049804688	0.1879883	0.05517578	-0.1757812
[3,]	0.01953125	-0.01904297	-0.005859375	0.2456055	0.12402344	-0.1699219
[4,]	0.01806641	-0.02050781	-0.006347656	0.2753906	0.11816406	-0.1665039
[5,]	0.02001953	-0.01904297	-0.008300781	0.2841797	0.11816406	-0.1645508
[6,]	0.02001953	-0.02001953	-0.008300781	0.2832031	0.11669922	-0.1640625
[7,]	0.01953125	-0.02001953	-0.008789062	0.2827148	0.11523438	-0.1635742
[8,]	0.01904297	-0.02099609	-0.008789062	0.2817383	0.11328125	-0.1640625
[9,]	0.01806641	-0.02050781	-0.009277344	0.2802734	0.11230469	-0.1645508
[10,]	0.01660156	-0.02197266	-0.009765625	0.2788086	0.10937500	-0.1655273
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[2,]	0.01318359	-0.3637695	-0.3173828	-0.023925781	0.04052734	-0.1464844
[3,]	0.15917969	-0.3554688	-0.3227539	-0.030761719	0.03027344	-0.1420898
[4,]	0.15283203	-0.3471680	-0.3203125	-0.031250000	0.02685547	-0.2368164
[5,]	0.15136719	-0.3447266	-0.3208008	-0.031250000	0.02587891	-0.2368164
[6,]	0.14941406	-0.3432617	-0.3203125	-0.031738281	0.02587891	-0.2353516
[7,]	0.14648438	-0.3427734	-0.3203125	-0.031250000	0.02539062	-0.2353516
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[9,]	0.14111328	-0.3427734	-0.3208008	-0.031738281	0.02441406	-0.2353516
[10,]	0.13867188	-0.3417969	-0.3217773	-0.033203125	0.02343750	-0.2358398
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[1,]	-0.3442383	0.9580078	-0.3461914	0.15576172	0.08935547	-0.3339844
[2,]	-0.3393555	1.1674805	-0.3300781	0.28906250	0.16894531	-0.3173828
[3,]	-0.3383789	1.2211914	-0.3354492	0.12451172	0.19042969	-0.3144531
[4,]	-0.3349609	1.2480469	-0.2958984	0.14111328	0.19970703	-0.3129883
[5,]	-0.3383789	1.2578125	-0.2954102	0.12158203	0.20361328	-0.3144531
[6,]	-0.3378906	1.2377930	-0.2963867	0.11279297	0.19531250	-0.3144531
[7,]	-0.3378906	1.2182617	-0.2958984	0.10400391	0.18603516	-0.3134766

[8,]	-0.3378906	1.1987305	-0.2973633	0.09521484	0.17822266	-0.3139648
[9,]	-0.3374023	1.1791992	-0.2973633	0.08691406	0.17041016	-0.3134766
[10,]	-0.3374023	1.1606445	-0.2978516	0.07812500	0.16259766	-0.3134766
	[,238]	[,239]	[,240]	[,241]	[,242]	[,243]
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[2,]	-0.1318359	-0.049804688	-0.2949219	0.1972656	-0.2900391	-0.2280273
[3,]	-0.3295898	-0.005371094	-0.3286133	0.3857422	-0.3071289	-0.2207031
[4,]	-0.3222656	-0.006835938	-0.3276367	0.3745117	-0.3041992	-0.2172852
[5,]	-0.3193359	-0.007812500	-0.3281250	0.3725586	-0.3051758	-0.2148438
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[7,]	-0.3217773	-0.009765625	-0.3266602	0.3657227	-0.3041992	-0.2148438
[8,]	-0.3237305	-0.011230469	-0.3276367	0.3618164	-0.3046875	-0.2138672
[9,]	-0.3247070	-0.012207031	-0.3281250	0.3579102	-0.3046875	-0.2138672
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	[,244]	[,245]	[,246]	[,247]	[,248]	[,249]
[1,]	-0.2026367	-0.3442383	-0.07421875	-0.2041016	-0.3378906	0.9580078
[2,]	-0.1323242	-0.3393555	-0.38330078	-0.1762695	-0.3471680	1.1674805
[3,]	-0.1127930	-0.3383789	-0.37402344	-0.1699219	-0.3515625	0.2045898
[4,]	-0.1030273	-0.3349609	-0.36865234	-0.1665039	-0.3496094	0.2250977
[5,]	-0.1152344	-0.3359375	-0.36572266	-0.1645508	-0.3486328	0.2338867
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[2,]	-0.06103516	0.2187500	-0.01171875	-0.05468750	0.06201172	-0.3173828
[3,]	-0.06494141	0.1997070	-0.01904297	-0.01660156	0.07958984	-0.3144531
[4,]	-0.06640625	0.3295898	-0.02050781	-0.01708984	0.08984375	-0.3129883
[5,]	-0.06445312	0.3286133	-0.02148438	-0.01806641	0.09277344	-0.3183594
[6,]	-0.06494141	0.3251953	-0.02197266	-0.01757812	0.09326172	-0.3178711
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[2,]	0.02636719	-0.03320312	-0.4350586	-0.2646484	-0.005859375	-0.3178711
[3,]	0.01513672	-0.04052734	-0.4262695	-0.2612305	-0.012695312	-0.3046875
[4,]	0.01220703	-0.04101562	-0.4204102	-0.2563477	-0.017089844	-0.2558594
[5,]	0.01367188	-0.03320312	-0.4296875	-0.2553711	-0.015136719	-0.2563477
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[7,]	0.01318359	-0.03417969	-0.4257812	-0.2553711	-0.014648438	-0.2573242
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[9,]	0.01220703	-0.03515625	-0.4243164	-0.2558594	-0.015625000	-0.2597656
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[2,]	0.16894531	0.6435547	-0.1967773	0.2368164	-0.2568359	0.1210938
[3,]	0.19042969	0.7319336	-0.2187500	0.2558594	-0.2739258	0.1391602
[4,]	0.19970703	0.7167969	-0.2236328	0.2651367	-0.2773438	0.1484375
[5,]	0.20361328	0.7124023	-0.2138672	0.2690430	-0.2763672	0.1518555
[6,]	0.20312500	0.7080078	-0.2148438	0.2709961	-0.2758789	0.1508789
[7,]	0.20263672	0.7041016	-0.2158203	0.2724609	-0.2773438	0.1503906
[8,]	0.20068359	0.6987305	-0.2177734	0.2729492	-0.2778320	0.1489258
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[3,]	-0.4428711	-0.1420898	-0.18554688	0.18066406	-0.04736328	0.2358398
[4,]	-0.4296875	-0.1362305	-0.17529297	0.17626953	-0.04931641	0.2290039
[5,]	-0.4252930	-0.1342773	-0.17285156	0.17578125	-0.04882812	0.2470703
[6,]	-0.4252930	-0.1337891	-0.17285156	0.17431641	-0.04833984	0.2456055
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[9,]	-0.4267578	-0.1342773	-0.17529297	0.17089844	-0.04833984	0.2416992
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[3,]	0.07373047	-0.4672852	-0.3037109	-0.3242188	-0.0102539062	-0.3315430
[4,]	0.06884766	-0.4619141	-0.3027344	-0.3208008	-0.0117187500	-0.3330078
[5,]	0.08154297	-0.4624023	-0.3002930	-0.3212891	-0.0087890625	-0.3320312
[6,]	0.08056641	-0.4619141	-0.3002930	-0.3208008	-0.0097656250	-0.3320312
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[9,]	0.07666016	-0.4604492	-0.3012695	-0.3198242	-0.0117187500	-0.3330078
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[3,]	0.26220703	-0.05419922	-0.3071289	0.3862305	0.08935547	-0.05371094
[4,]	0.27978516	-0.05419922	-0.3041992	0.3637695	0.08496094	-0.05419922
[5,]	0.23828125	-0.05517578	-0.3032227	0.3574219	0.08496094	-0.05517578

[6,]	0.23876953	-0.05419922	-0.3027344	0.3525391	0.08349609	-0.05419922
[7,]	0.23925781	-0.05419922	-0.3017578	0.3466797	0.08105469	-0.05468750
[8,]	0.23876953	-0.05468750	-0.3022461	0.3413086	0.07910156	-0.05517578
[9,]	0.23876953	-0.05468750	-0.3017578	0.3359375	0.07666016	-0.05468750
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[3,]	0.10839844	-0.3427734	0.04296875	0.19042969	0.2993164	2.072754
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[5,]	0.22607422	-0.3437500	0.05468750	0.20361328	0.3212891	2.108887
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[7,]	0.21972656	-0.3432617	0.05224609	0.20068359	0.3002930	2.050781
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[9,]	0.04052734	-0.38964844	0.05029297	-0.2851562	0.06250000	-0.05224609
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[3,]	-0.2919922	-0.04736328	-0.2968750	0.10839844	0.046386719	-0.2910156
[4,]	-0.2875977	-0.04931641	-0.2963867	0.22607422	0.042968750	-0.2905273

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[6,]	-0.4453125	1.672363	1.664062	-0.2949219	-0.2885742	0.1508789	-0.3398438
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[8,]	-0.4477539	1.674316	1.613281	-0.2954102	-0.2900391	0.1484375	-0.3403320
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[4,]	0.1191406	-0.0117187500	-0.5913086	-0.3154297	-0.2607422	0.33642578	
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[3,]	-0.2421875	2.015137	-0.3359375	0.0034179688	0.2592773	0.19042969
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[5,]	-0.2363281	2.055176	-0.3359375	0.0092773438	0.2661133	0.20361328
[6,]	-0.2358398	2.047852	-0.3354492	0.0087890625	0.2656250	0.20410156
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[8,]	-0.2358398	2.030273	-0.3364258	0.0063476562	0.2612305	0.20361328
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[2,]	-0.3061523	-0.4682617	0.059082031	0.003906250	-0.2475586	0.4360352
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[3,]	-0.3364258	-0.06250000	-0.2612305	-0.06054688	0.3916016	-0.06494141
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[5,]	-0.3359375	-0.04492188	-0.2553711	-0.06054688	0.4140625	-0.06445312
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[3,]	-0.012695312	0.020996094	0.06542969	0.3339844	-0.06494141	-0.01904297
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[5,]	-0.0019531250	0.04199219	0.4619141	-0.20654297	-0.3447266	-0.031250000
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[6,]	-0.3457031	-0.03125000	-0.2358398	0.1904297	-0.4233398	-0.4023438
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[5,]	-0.3188477	-0.007812500	-0.06445312	0.45019531	-0.9042969	-0.7451172
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[5,]	-0.5439453	-0.41601562	-1.4965820	-0.3867188	-0.5117188	-0.1806641
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[8,]	-0.3364258	-0.4970703	-1.1865234	-1.270020	-1.792480	-1.380371	-1.577148					
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[6,]	-0.4003906	-1.143555	0.2084961	0.3266602	-0.9130859	-0.5449219	
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[4,]	-0.6601562	-1.4794922	-1.292480	-0.4814453	-0.9926758	-0.7075195
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[6,]	-0.6611328	-1.4775391	-1.291504	-0.4902344	-0.9887695	-0.7021484
[7,]	-0.6606445	-1.4765625	-1.291992	-0.4912109	-0.9873047	-0.7006836
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[9,]	-0.6606445	-1.4765625	-1.293457	-0.4926758	-0.9868164	-0.6982422
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[5,]	-0.3452148	0.1699219	0.11962891	0.02929688	0.10107422	-0.2666016
[6,]	-0.3417969	0.1694336	0.11816406	0.02880859	0.10058594	-0.2656250
[7,]	-0.3398438	0.1689453	0.11572266	0.02880859	0.09960938	-0.2651367
[8,]	-0.3378906	0.1669922	0.11328125	0.02734375	0.09765625	-0.2656250
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[2,]	-1.1625977	-1.275391	-1.3256836	-0.2036133	-0.7929688	-0.7832031
[3,]	-1.1635742	-1.310059	-1.4121094	-0.3745117	-0.6103516	-0.9257812
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[7,]	-1.1621094	-1.223633	-1.4335938	-0.3637695	-0.6230469	-1.2138672
[8,]	-1.1625977	-1.226074	-1.4331055	-0.3647461	-0.6274414	-1.2148438
[9,]	-1.1625977	-1.227051	-1.4316406	-0.3652344	-0.6313477	-1.2143555
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[8,]	-0.3325195	-0.6357422	2.573730	-0.8457031	-0.06054688	0.1713867
[9,]	-0.3325195	-0.6357422	2.564941	-0.8452148	-0.06054688	0.1718750
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[3,]	0.1235352	-0.7958984	-0.8491211	-0.06494141	-0.5791016	0.05810547
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[5,]	-1.054199	-1.100098	-1.496582	0.06103516	-1.1708984	-0.6147461	0.2255859
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[7,]	-0.4018555	-0.7314453	1.2080078	-0.9331055	-1.3916016	-1.119629	-2.167969
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[8,]	0.5078125	-0.5307617	0.6557617	-0.9531250	-1.145508	-1.2265625	-0.6210938
[9,]	0.4975586	-0.5307617	0.6450195	-0.9560547	-1.147461	-1.2260742	-0.6210938
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[7,]	-1.210449	-0.8676758	1.0839844	-1.238770	-0.2045898	-0.06005859	
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[7,]	-0.3432617	1.1030273	-0.607				

[9,]	-0.3442383	1.0996094	-0.61279297	-0.4091797	-0.008789062	-0.7314453
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[3,]	-0.1977539	0.05957031	-0.2539062	-1.660156	-0.08007812	-0.3178711
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[5,]	-0.1909180	0.05712891	-0.2929688	-1.641113	-0.06542969	-0.3144531
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[9,]	-0.1894531	0.05566406	-0.3129883	-1.645020	-0.06298828	-0.3144531
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[3,]	-0.01904297	-0.7758789	1.6142578	1.7011719	0.10791016	-0.5766602
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[5,]	-0.02148438	-0.7954102	1.7529297	1.6625977	0.10302734	-0.6215820
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[3,]	0.3330078	-1.2285156	-0.07373047	-0.06054688	-0.1904297	-0.5917969
[4,]	0.5815430	-1.1674805	-0.08251953	-0.06005859	-0.1972656	-0.5776367
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[2,]	-0.9282227	-0.0004882812	-0.04541016	-0.2900391	0.01660156	-0.7670898
[3,]	-0.8989258	-0.0102539062	-0.02636719	-0.2988281	0.04882812	-0.7641602
[4,]	-0.9130859	0.0830078125	-0.01660156	-0.1611328	0.06494141	-0.7651367
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[3,]	0.2988281	-0.06054688	-0.05371094	-0.4409180	-0.3398438	-0.1972656
[4,]	0.3168945	-0.06005859	-0.05419922	-0.4355469	-0.3256836	-0.2709961
[5,]	0.3100586	-0.06054688	-0.05517578	-0.4335938	-0.3217773	-0.2690430
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[3,]	-0.3427734	-0.1596680	-1.5942383	-1.635254	0.6547852	-0.8623047
[4,]	-0.3325195	-0.1464844	-1.6928711	-1.631348	0.6264648	-0.8608398
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[3,]	-1.0991211	-0.2875977	-0.3837891	-1.095703	-0.5073242	-0.3364258
[4,]	-1.1582031	-0.2905273	-0.3764648	-1.110840	-0.5043945	-0.3369141
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[9,]	0.3916016	-0.23388672	-1.404297	0.02246094	-0.5473633	-0.3291016
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[5,]	-0.8740234	-0.9638672	-0.8525391	-0.6337891	-0.2363281	0.3769531
[6,]	-0.8740234	-0.9653320	-0.8515625	-0.6352539	-0.2358398	0.3764648
[7,]	-0.8745117	-0.9687500	-0.8520508	-0.6352539	-0.2353516	0.3759766
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[2,]	-0.3476562	0.018066406	-0.5395508	-0.8305664	-0.6450195	-0.4667969
[3,]	-0.3369141	0.007812500	-0.4653320	-0.9277344	-0.6445312	-0.2783203
[4,]	-0.3378906	0.007324219	-0.4863281	-0.9067383	-0.5405273	-0.2900391
[5,]	-0.3378906	0.005859375	-0.4936523	-0.8994141	-0.5434570	-0.2934570
[6,]	-0.3383789	0.006347656	-0.4956055	-0.8984375	-0.5444336	-0.2939453
[7,]	-0.3378906	0.005859375	-0.4960938	-0.8974609	-0.5449219	-0.2944336

[8,]	-0.3383789	0.005371094	-0.4985352	-0.8979492	-0.5463867	-0.2954102
[9,]	-0.3383789	0.004882812	-0.5000000	-0.8969727	-0.5478516	-0.2958984
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[6,]	-0.7553711	-1.427734	-0.6816406	-0.5000000	-0.6083984	-0.7353516
[7,]	-0.7553711	-1.426758	-0.6821289	-0.5000000	-0.6083984	-0.7348633
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[3,]	-0.1420898	-0.012695312	0.09130859	0.11181641	0.03027344	-0.1420898
[4,]	-0.1362305	-0.017089844	0.07617188	-0.04980469	0.13232422	-0.1362305
[5,]	-0.1342773	-0.015136719	0.07617188	-0.06103516	0.13085938	-0.1367188
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[3,]	-0.3134766	-0.3212891	-0.3408203	-0.3037109	-0.4101562	-0.3427734
[4,]	-0.3144531	-0.3237305	-0.3105469	-0.3071289	-0.4052734	-0.3408203
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[6,]	-0.3149414	-0.3217773	-0.3100586	-0.3071289	-0.4008789	-0.3398438
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[8,]	-0.3164062	-0.3227539	-0.3105469	-0.3076172	-0.4008789	-0.3403320
[9,]	-0.3159180	-0.3222656	-0.3100586	-0.3076172	-0.3999023	-0.3398438
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[2,]	-0.023925781	0.1782227	0.2368164	-0.06103516	-0.1757812	0.04052734
[3,]	-0.030761719	0.2558594	0.2558594	-0.06542969	-0.1699219	0.03027344
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[5,]	-0.031250000	0.3891602	0.2690430	-0.06445312	-0.1645508	0.02587891
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[3,]	0.07519531	0.1621094	0.4580078	-0.1293945	-0.14990234	-0.2187500
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[3,]	-0.3212891	-0.7504883	-1.053223	-0.3217773	0.36425781	0.19628906
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[5,]	-0.3178711	-0.7133789	-1.051758	-0.3198242	0.40478516	0.18994141
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[8,]	-0.3173828	-0.7158203	-1.051758	-0.3198242	0.40429688	0.18896484
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[3,]	-0.4667969	0.3261719	-1.133789	-1.310059	-0.2827148	-0.2031250
[4,]	-0.4614258	0.3364258	-1.124023	-1.303711	-0.3325195	-0.2104492
[5,]	-0.4589844	0.3403320	-1.121094	-1.305176	-0.3496094	-0.2128906
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[9,]	-0.4589844	0.3417969	-1.120605	-1.305664	-0.3540039	-0.2207031
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[3,]	-0.02099609	-0.3417969	-0.8393555	-0.4433594	-1.338379	-1.201172
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[5,]	0.08105469	-0.1757812	-0.8549805	-0.4155273	-1.328613	-1.233887

[6,]	0.07910156	-0.1782227	-0.8549805	-0.4150391	-1.322266	-1.233398
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[2,]	-0.3837891	-0.0859375	-0.17285156	-1.302734	-0.7099609	-1.316406
[3,]	-0.3730469	-0.1318359	-0.35156250	-1.291992	-0.7792969	-1.314941
[4,]	-0.3666992	-0.1489258	-0.45361328	-1.277832	-0.7514648	-1.312988
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[6,]	-0.3637695	-0.1538086	-0.44433594	-1.269043	-0.7373047	-1.311523
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[3,]	-0.4907227	-0.6738281	-0.7451172	-0.2529297	-0.16894531	-0.4599609
[4,]	-0.5097656	-0.6552734	-0.6752930	-0.2583008	-0.14941406	-0.5214844
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[3,]	-0.1884766	-0.3281250	-0.6108398	-0.14550781	-0.5146484	-1.274902
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[5,]	-0.2465820	-0.3984375	-0.59179688	-0.3374023	-0.6240234	-0.7856445
[6,]	-0.2475586	-0.4003906	-0.59130859	-0.3369141	-0.6235352	-0.7851562
[7,]	-0.2480469	-0.4023438	-0.59082031	-0.3369141	-0.6235352	-0.7846680
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[2,]	-0.3740234	0.07177734	0.5898438	-1.015137	-1.013184	-0.8393555
[3,]	-0.3984375	0.12011719	0.5551758	-1.117188	-1.074707	-0.9365234
						-1.296387

[4,]	-0.4047852	0.14160156	0.5434570	-1.125488	-1.082031	-0.9057617	-1.313477
[5,]	-0.4082031	0.14062500	0.5390625	-1.121582	-1.046387	-0.8935547	-1.331543
[6,]	-0.4082031	0.14160156	0.5356445	-1.121094	-1.052734	-0.8916016	-1.335449
[7,]	-0.4086914	0.14257812	0.5322266	-1.120117	-1.059570	-0.8906250	-1.340332
[8,]	-0.4096680	0.14306641	0.5278320	-1.120117	-1.066895	-0.8901367	-1.344727
[9,]	-0.4096680	0.14453125	0.5249023	-1.119141	-1.073242	-0.8886719	-1.348145
[10,]	-0.4101562	0.14501953	0.5209961	-1.118652	-1.078613	-0.8881836	-1.352051
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[2,]	-0.2641602	1.0703125	1.2670898	0.9497070	-0.3671875	1.117188	-0.2822266
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[5,]	-0.2553711	0.9858398	1.8222656	0.8754883	-0.2451172	1.255371	-0.2719727
[6,]	-0.2548828	0.9838867	1.8105469	0.8735352	-0.2490234	1.249023	-0.2709961
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[9,]	-0.2548828	0.9780273	1.7744141	0.8681641	-0.2607422	1.230957	-0.2709961
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[5,]	1.5019531	-0.01806641	0.10107422	-0.2592773	0.1347656	-0.2866211	
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[7,]	1.4794922	-0.01855469	0.10058594	-0.2592773	0.1337891	-0.2866211	
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[5,]	-0.2553711	-0.015136719	0.04052734	-0.6191406	0.0009765625	-0.3471680	
[6,]	-0.2548828	-0.014648438	0.04199219	-0.6186523	-0.0004882812	-0.3466797	
[7,]	-0.2543945	-0.014648438	0.04345703	-0.6181641	-0.0009765625	-0.3461914	
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[9,]	-0.2543945	-0.015136719	0.04638672	-0.6181641	-0.0039062500	-0.3471680	
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[2,]	-0.7221680	-0.04199219	0.8618164	-0.3017578	-0.29199219	-0.2075195	

[3,]	-0.6748047	-0.04736328	0.9072266	-0.3076172	-0.28076172	-0.2675781	
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[5,]	-0.7001953	-0.04882812	0.9379883	-0.3071289	-0.27099609	-0.3725586	
[6,]	-0.7031250	-0.04833984	0.9365234	-0.3081055	-0.26904297	-0.3696289	
[7,]	-0.7045898	-0.04785156	0.9355469	-0.3081055	-0.26806641	-0.3686523	
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[6,]	-0.2729492	-0.6337891	0.20263672	-0.2583008	-0.06445312	-0.6499023	
[7,]	-0.2758789	-0.6337891	0.20361328	-0.2631836	-0.06445312	-0.6494141	
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[2,]	-0.04980469	-1.518555	-0.9726562	-1.2724609	-1.356934	-0.4516602	
[3,]	-0.05419922	-1.531738	-0.9892578	-1.3486328	-1.336914	-0.3999023	
[4,]	-0.05419922	-1.564941	-0.9926758	-1.3300781	-1.310547	-0.3422852	
[5,]	-0.05517578	-1.574707	-0.9931641	-1.3071289	-1.314941	-0.3525391	
[6,]	-0.05517578	-1.574219	-0.9936523	-1.3046875	-1.315918	-0.3530273	
[7,]	-0.05419922	-1.573242	-0.9936523	-1.3022461	-1.316895	-0.3530273	
[8,]	-0.05566406	-1.573730	-0.9946289	-1.3012695	-1.317871	-0.3544922	
[9,]	-0.05517578	-1.573242	-0.9951172	-1.2988281	-1.318359	-0.3544922	
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[2,]	-1.466797	-1.148926	0.3037109	-0.5087891	-0.2856445	-0.07763672	-1.192871
[3,]	-1.441895	-1.141113	0.2797852	-0.5341797	-0.2841797	-0.14355469	-1.172363
[4,]	-1.382812	-1.149414	0.2724609	-0.5029297	-0.2836914	-0.16894531	-1.270996
[5,]	-1.356445	-1.132812	0.2705078	-0.4936523	-0.2807617	-0.17724609	-1.256836
[6,]	-1.356445	-1.132812	0.2695312	-0.4916992	-0.2802734	-0.17871094	-1.255371
[7,]	-1.357422	-1.134277	0.2685547	-0.4897461	-0.2792969	-0.18017578	-1.253906
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[4,]	0.73291016	-1.114746	-0.4716797	-0.017089844	-0.9257812	0.32568359
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[6,]	0.70263672	-1.108398	-0.4736328	-0.014648438	-0.9267578	0.30322266
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[3,]	-1.296387	0.81591797	-0.3154297	-0.62109375	-1.305176	0.1884766
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[5,]	-1.295898	0.80810547	-0.3159180	-0.68164062	-1.301270	0.1479492
[6,]	-1.295410	0.80224609	-0.3159180	-0.67871094	-1.301270	0.1450195
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[8,]	-1.295410	0.78955078	-0.3159180	-0.67529297	-1.302246	0.1357422
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[2,]	0.01123047	0.9921875	-0.2392578	-0.6406250	-0.5117188	-0.9272461
[3,]	-0.02001953	0.9150391	-0.1933594	-0.6499023	-0.5087891	-0.9311523
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[5,]	-0.03466797	0.8730469	-0.2031250	-0.6445312	-0.5102539	-0.9287109
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[6,]	-0.7563477	-0.7856445	-0.5908203	-0.6855469	1.144531	0.1694336
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[3,]	-1.257324	-0.2524414	0.09082031	-0.6586914	-0.6948242	-1.344727
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[5,]	-1.234375	-0.2402344	0.20361328	-0.6464844	-0.6616211	-1.352051
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[3,]	-0.4726562	-1.151855	-1.309570	-0.2934570	-0.19384766	-0.7324219
[4,]	-0.5395508	-1.150391	-1.301270	-0.1953125	-0.13134766	-0.7597656
[5,]	-0.5639648	-1.149902	-1.307129	-0.2280273	-0.02148438	-0.7709961
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[3,]	0.0595703125	-0.005371094	-0.3359375	-0.5083008	-0.7177734	-0.07080078
[4,]	0.0566406250	-0.006347656	-0.3349609	-0.4902344	-0.7080078	-0.08056641
[5,]	0.1674804688	-0.008300781	-0.3359375	-0.6816406	-0.7055664	-0.08496094
[6,]	0.1669921875	-0.007812500	-0.3354492	-0.6796875	-0.7050781	-0.08544922
[7,]	0.1660156250	-0.007812500	-0.3349609	-0.6791992	-0.7041016	-0.08691406
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[9,]	0.1640625000	-0.008789062	-0.3349609	-0.6777344	-0.7031250	-0.09033203
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[3,]	-0.4096680	-0.6655273	-0.5937500	-1.4594727	-0.9433594	-1.995117
[4,]	-0.4033203	-0.7832031	-0.6000977	-1.4775391	-0.9521484	-2.025879
[5,]	-0.4038086	-0.7778320	-0.6020508	-1.4702148	-0.9555664	-2.013672
[6,]	-0.4033203	-0.7763672	-0.6025391	-1.4682617	-0.9560547	-2.011230
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[3,]	-1.352051	-1.292969	1.544434	-0.3154297	-0.3310547	-0.9121094	-0.11816406
[4,]	-1.343262	-1.313965	1.089355	-0.3188477	-0.3305664	-0.9038086	-0.12792969
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[3,]	-0.3281250	0.07763672	0.04345703	-0.4179688	-0.5087891	0.05957031
[4,]	-0.3266602	0.07275391	0.04052734	-0.4111328	-0.6230469	0.16894531
[5,]	-0.3120117	0.07421875	0.03955078	-0.4086914	-0.6069336	0.16796875
[6,]	-0.3125000	0.07470703	0.03906250	-0.4077148	-0.6020508	0.16748047
[7,]	-0.3129883	0.07373047	0.03955078	-0.4067383	-0.5976562	0.16601562
[8,]	-0.3129883	0.07373047	0.03955078	-0.4077148	-0.5942383	0.16406250
[9,]	-0.3134766	0.07275391	0.03857422	-0.4067383	-0.5893555	0.16357422

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[3,]	-0.26416016	-0.3125000	-0.8598633	-0.8125000	-0.4594727	-0.2446289
[4,]	-0.01025391	-0.3149414	-0.8437500	-0.7973633	-0.4565430	-0.2578125
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[7,]	-0.01074219	-0.3159180	-0.8154297	-0.8452148	-0.4526367	-0.2622070
[8,]	-0.01269531	-0.3168945	-0.8168945	-0.8457031	-0.4531250	-0.2646484
[9,]	-0.01220703	-0.3168945	-0.8168945	-0.8447266	-0.4526367	-0.2656250
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[3,]	-1.0600586	-0.3222656	0.19970703	-0.8408203	1.1425781	0.18017578
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[9,]	-1.0224609	-0.3222656	0.18505859	-0.7685547	1.0307617	0.16601562
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[3,]	-0.6474609	-0.1499023	-1.0981445	-1.152344	-1.1459961	-1.1958008
[4,]	-0.6049805	-0.1567383	-1.0854492	-1.150391	-1.1357422	-1.1918945
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[9,]	-0.6201172	-0.1660156	-1.1049805	-1.149414	-1.1513672	-1.1923828
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[3,]	-0.8012695	-0.8925781	-1.272461	0.04296875	-0.3281250	-0.2324219
[4,]	-0.7670898	-0.7397461	-1.280762	0.08300781	-0.2490234	-0.2397461
[5,]	-0.7724609	-0.7460938	-1.298340	0.09130859	-0.1567383	-0.2402344
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[9,]	-0.7768555	-0.7524414	-1.296875	0.09619141	-0.1640625	-0.2412109
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[4,]	-0.22753906	-0.7592773	-0.7280273	-0.4819336	-0.5278320	-0.2602539
[5,]	-0.26660156	-0.7402344	-0.7246094	-0.4799805	-0.5278320	-0.2617188
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[3,]	-0.3144531	-0.7177734	-0.3847656	-0.6264648	-0.6757812	-0.7260742
[4,]	-0.3134766	-0.7421875	-0.3881836	-0.6162109	-0.6679688	-0.7739258
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[5,]	-0.5361328	-0.034179688	-1.338867	-0.2846680	-0.7768555	-0.7534180
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[8,]	-0.5332031	-0.036621094	-1.339355	-0.2905273	-0.7768555	-0.7529297
[9,]	-0.5322266	-0.037109375	-1.338867	-0.2919922	-0.7768555	-0.7524414
[10,]	-0.5322266	-0.038574219	-1.338867	-0.2949219	-0.7778320	-0.7519531
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[1,]	0.15527344	0.5068359	-0.6445312	-0.8310547	-1.1132812	-0.5390625
[2,]	0.10595703	0.3105469	-0.6367188	-0.8251953	-1.0517578	-0.5136719
[3,]	0.09033203	0.2607422	-0.6259766	-0.8129883	-0.9833984	-0.5595703
[4,]	0.20507812	0.2436523	-0.6201172	-0.8032227	-1.0000000	-0.5458984
[5,]	0.21582031	0.2358398	-0.6186523	-0.8002930	-1.0024414	-0.5668945
[6,]	0.21484375	0.2348633	-0.6176758	-0.7993164	-1.0024414	-0.5654297

[7,]	0.21289062	0.2333984	-0.6171875	-0.7978516	-1.0029297	-0.5634766
[8,]	0.21044922	0.2324219	-0.6181641	-0.7983398	-1.0034180	-0.5629883
[9,]	0.20947266	0.2314453	-0.6181641	-0.7973633	-1.0039062	-0.5605469
[10,]	0.20800781	0.2299805	-0.6171875	-0.7973633	-1.0039062	-0.5600586
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[2,]	-0.3876953	-0.4345703	-0.3256836	-0.5244141	-0.7753906	-0.6694336
[3,]	-0.3549805	-0.4106445	-0.2944336	-0.5297852	-0.7534180	-0.7504883
[4,]	-0.3657227	-0.3388672	-0.2270508	-0.5292969	-0.7558594	-0.7998047
[5,]	-0.3657227	-0.3105469	-0.2280273	-0.5283203	-0.7490234	-0.7958984
[6,]	-0.3666992	-0.3144531	-0.2290039	-0.5273438	-0.7490234	-0.7944336
[7,]	-0.3671875	-0.3178711	-0.2290039	-0.5278320	-0.7490234	-0.7924805
[8,]	-0.3696289	-0.3217773	-0.2309570	-0.5288086	-0.7490234	-0.7910156
[9,]	-0.3696289	-0.3251953	-0.2314453	-0.5278320	-0.7495117	-0.7890625
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[2,]	-0.8867188	-0.2983398	-0.1806641	0.3920898	0.2304688	-0.5961914
[3,]	-0.8593750	-0.2968750	-0.2031250	0.4804688	0.1523438	-0.5791016
[4,]	-0.8828125	-0.2963867	-0.2099609	0.4707031	0.1225586	-0.5292969
[5,]	-0.8823242	-0.2954102	-0.2109375	0.4653320	0.1484375	-0.5097656
[6,]	-0.8857422	-0.2949219	-0.2119141	0.4633789	0.1406250	-0.5107422
[7,]	-0.8886719	-0.2949219	-0.2124023	0.4614258	0.1333008	-0.5126953
[8,]	-0.8930664	-0.2954102	-0.2138672	0.4580078	0.1259766	-0.5136719
[9,]	-0.8955078	-0.2958984	-0.2148438	0.4560547	0.1196289	-0.5156250
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[2,]	-0.6479492	0.6748047	0.5751953	-0.2226562	0.2221680	-0.2338867
[3,]	-0.6513672	0.7641602	0.7553711	-0.2382812	0.3686523	-0.2187500
[4,]	-0.6484375	0.7451172	0.8974609	-0.2431641	0.3417969	-0.2094727
[5,]	-0.6479492	0.7397461	0.8862305	-0.2446289	0.3315430	-0.2065430
[6,]	-0.6479492	0.7377930	0.8823242	-0.2446289	0.3232422	-0.2060547
[7,]	-0.6474609	0.7368164	0.8789062	-0.2446289	0.3154297	-0.2070312
[8,]	-0.6484375	0.7333984	0.8750000	-0.2456055	0.3076172	-0.2070312
[9,]	-0.6479492	0.7319336	0.8720703	-0.2456055	0.2998047	-0.2070312
[10,]	-0.6484375	0.7304688	0.8681641	-0.2465820	0.2929688	-0.2075195
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[2,]	0.06494141	-0.023925781	-0.2036133	-0.2641602	-0.2963867	0.2597656
[3,]	0.09912109	-0.030761719	-0.2919922	-0.2617188	-0.2968750	0.2392578
[4,]	0.11523438	-0.030761719	-0.2846680	-0.2563477	-0.2934570	0.2333984
[5,]	0.12109375	-0.031250000	-0.2807617	-0.2553711	-0.2929688	0.2290039

[6,]	0.11962891	-0.031250000	-0.2802734	-0.2548828	-0.2924805	0.2294922
[7,]	0.11816406	-0.030761719	-0.2802734	-0.2548828	-0.2924805	0.2304688
[8,]	0.11572266	-0.031738281	-0.2807617	-0.2553711	-0.2929688	0.2294922
[9,]	0.11425781	-0.031738281	-0.2802734	-0.2553711	-0.2929688	0.2294922
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[2,]	0.1220703	-0.16845703	0.5839844	0.3413086	-0.6606445	0.09179688
[3,]	0.1069336	-0.15039062	0.6147461	0.2163086	-0.6567383	-0.64550781
[4,]	0.1030273	-0.14013672	0.5810547	0.2431641	-0.6533203	-0.61962891
[5,]	0.1010742	-0.13867188	0.6142578	0.2553711	-0.6513672	-0.61035156
[6,]	0.1015625	-0.13867188	0.6088867	0.2514648	-0.6513672	-0.61376953
[7,]	0.1020508	-0.13964844	0.6040039	0.2475586	-0.6513672	-0.61865234
[8,]	0.1010742	-0.14062500	0.5976562	0.2436523	-0.6518555	-0.62255859
[9,]	0.1020508	-0.14111328	0.5922852	0.2397461	-0.6508789	-0.62695312
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[2,]	0.1972656	-0.09277344	-1.158691	-0.7871094	-0.05761719	-1.042480
[3,]	0.1806641	-0.11718750	-1.167480	-0.7651367	-0.08789062	-1.038086
[4,]	0.1723633	-0.12402344	-1.156738	-0.7553711	-0.09765625	-1.024902
[5,]	0.1708984	-0.12744141	-1.153320	-0.7504883	-0.09912109	-1.019531
[6,]	0.1713867	-0.12792969	-1.151855	-0.7495117	-0.09960938	-1.020508
[7,]	0.1708984	-0.12939453	-1.151367	-0.7485352	-0.10009766	-1.020508
[8,]	0.1699219	-0.13037109	-1.151367	-0.7490234	-0.10156250	-1.021973
[9,]	0.1699219	-0.13134766	-1.150391	-0.7480469	-0.10253906	-1.022949
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[2,]	-0.5654297	1.44873047	-0.3364258	-0.9370117	-0.1464844	-0.3432617
[3,]	-0.5942383	0.07324219	-0.2299805	-0.9379883	-0.1420898	-0.3481445
[4,]	-0.5859375	0.14160156	-0.1406250	-0.9375000	-0.1362305	-0.3476562
[5,]	-0.5839844	0.14013672	-0.1464844	-0.9370117	-0.1342773	-0.3486328
[6,]	-0.5849609	0.13720703	-0.1455078	-0.9370117	-0.1337891	-0.3481445
[7,]	-0.5859375	0.13330078	-0.1459961	-0.9375000	-0.1337891	-0.3481445
[8,]	-0.5883789	0.12939453	-0.1455078	-0.9379883	-0.1342773	-0.3486328
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[2,]	-0.7631836	-0.6079102	-0.4316406	0.0327148438	1.7622070	0.11523438
[3,]	-0.7626953	-0.5473633	-0.4018555	0.0522460938	0.9458008	0.15039062
[4,]	-0.7612305	-0.5537109	-0.3842773	0.0205078125	1.0625000	0.16796875

[5,]	-0.7602539	-0.5449219	-0.3784180	0.0107421875	-0.8374023	0.17333984
[6,]	-0.7597656	-0.5458984	-0.3784180	0.0092773438	-0.8383789	0.17382812
[7,]	-0.7597656	-0.5468750	-0.3789062	0.0073242188	-0.8393555	0.17382812
[8,]	-0.7597656	-0.5473633	-0.3803711	0.0048828125	-0.8413086	0.17285156
[9,]	-0.7592773	-0.5483398	-0.3808594	0.0029296875	-0.8427734	0.17285156
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[2,]	-0.8129883	4.2919922	-0.3632812	-0.55126953	-0.5205078	-0.9912109
[3,]	-0.8066406	4.1528320	-0.3901367	-0.54443359	-0.4863281	-1.0161133
[4,]	-0.8144531	4.2436523	-0.4008789	-0.53759766	-0.5693359	-1.0068359
[5,]	-0.8090820	-0.1933594	-0.4038086	-0.53515625	-0.5654297	-1.0122070
[6,]	-0.8095703	-0.1982422	-0.4038086	-0.53466797	-0.5620117	-1.0122070
[7,]	-0.8105469	-0.2026367	-0.4038086	-0.53417969	-0.5585938	-1.0122070
[8,]	-0.8120117	-0.2099609	-0.4042969	-0.53466797	-0.5561523	-1.0126953
[9,]	-0.8129883	-0.2148438	-0.4047852	-0.53417969	-0.5522461	-1.0126953
[10,]	-0.8134766	-0.2202148	-0.4057617	-0.53417969	-0.5498047	-1.0136719
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[2,]	-0.42871094	0.3842773	0.3486328	-0.3413086	-0.7148438	0.6840820
[3,]	-0.34521484	0.6123047	0.3237305	-0.3422852	-0.7465820	0.7153320
[4,]	-0.39746094	0.5693359	0.3144531	-0.3403320	-0.7421875	0.7338867
[5,]	-0.41552734	0.6132812	0.3120117	-0.3408203	-0.7407227	0.7387695
[6,]	-0.41455078	0.6059570	0.3115234	-0.3398438	-0.7397461	0.7382812
[7,]	-0.41455078	0.5981445	0.3105469	-0.3393555	-0.7392578	0.7368164
[8,]	-0.41552734	0.5917969	0.3090820	-0.3398438	-0.7392578	0.7343750
[9,]	-0.41455078	0.5844727	0.3095703	-0.3393555	-0.7392578	0.7338867
[10,]	-0.41552734	0.5776367	0.3081055	-0.3398438	-0.7387695	0.7324219
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[2,]	-0.6245117	-0.3969727	-0.6557617	-0.5385742	-1.0922852	0.9296875
[3,]	-0.6025391	-0.3647461	-0.6425781	-0.5395508	-1.0620117	0.9780273
[4,]	-0.5893555	-0.3471680	-0.6328125	-0.5375977	-1.0039062	0.5957031
[5,]	-0.6103516	-0.3408203	-0.6284180	-0.5380859	-0.9819336	0.6015625
[6,]	-0.6083984	-0.3417969	-0.6279297	-0.5375977	-0.9848633	0.6000977
[7,]	-0.6069336	-0.3413086	-0.6284180	-0.5375977	-0.9877930	0.5981445
[8,]	-0.6074219	-0.3422852	-0.6289062	-0.5380859	-0.9907227	0.5952148
[9,]	-0.6059570	-0.3422852	-0.6284180	-0.5380859	-0.9931641	0.5932617
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[2,]	-0.7065430	-0.2822266	-0.9335938	0.2187500	-0.4926758	-0.7822266
[3,]	-0.7148438	-0.2773438	-0.9462891	0.1992188	-0.4775391	-0.7963867

[4,]	-0.7363281	-0.2744141	-0.9472656	0.1923828	-0.4951172	-0.7875977
[5,]	-0.7446289	-0.2719727	-0.9467773	0.1899414	-0.5004883	-0.7880859
[6,]	-0.7456055	-0.2714844	-0.9467773	0.1904297	-0.5029297	-0.7866211
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[9,]	-0.7514648	-0.2724609	-0.9467773	0.1904297	-0.5117188	-0.7832031
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[2,]	-0.3144531	-0.6181641	-0.6972656	1.2221680	-0.3457031	-0.3007812
[3,]	-0.3164062	-0.6152344	-0.7138672	0.9418945	-0.3496094	-0.3764648
[4,]	-0.3129883	-0.6333008	-0.7075195	0.6494141	-0.3500977	-0.4663086
[5,]	-0.3120117	-0.6401367	-0.7041016	-0.9570312	-0.3496094	-0.4624023
[6,]	-0.3115234	-0.6416016	-0.7026367	-0.9541016	-0.3491211	-0.4619141
[7,]	-0.3115234	-0.6425781	-0.7001953	-0.9511719	-0.3486328	-0.4609375
[8,]	-0.3120117	-0.6445312	-0.6997070	-0.9497070	-0.3496094	-0.4609375
[9,]	-0.3120117	-0.6455078	-0.6982422	-0.9477539	-0.3496094	-0.4599609
[10,]	-0.3120117	-0.6474609	-0.6967773	-0.9458008	-0.3496094	-0.4599609
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[2,]	-0.7753906	0.10693359	-0.1860352	-0.5253906	-0.7602539	-0.01171875
[3,]	-0.7749023	0.09326172	-0.2265625	-0.5278320	-0.7617188	-0.01953125
[4,]	-0.7700195	0.08789062	-0.2402344	-0.5288086	-0.7583008	-0.02050781
[5,]	-0.7680664	0.08740234	-0.2436523	-0.5268555	-0.7587891	-0.02197266
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[7,]	-0.7670898	0.08691406	-0.2451172	-0.5268555	-0.7573242	-0.02099609
[8,]	-0.7675781	0.08496094	-0.2475586	-0.5273438	-0.7583008	-0.02197266
[9,]	-0.7670898	0.08447266	-0.2480469	-0.5268555	-0.7578125	-0.02148438
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[2,]	3.214844	-0.4873047	-0.2465820	-0.5102539	-0.8217773	-0.2832031
[3,]	3.333496	-0.5078125	-0.3105469	-0.5112305	-0.8359375	-0.3134766
[4,]	3.386719	-0.5048828	-0.3334961	-0.5102539	-0.8632812	-0.3237305
[5,]	3.406738	-0.5024414	-0.3369141	-0.5083008	-0.8955078	-0.3276367
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[8,]	3.264160	-0.5014648	-0.3457031	-0.5083008	-0.8935547	-0.3369141
[9,]	3.220215	-0.5009766	-0.3486328	-0.5083008	-0.8925781	-0.3393555
[10,]	3.178711	-0.5004883	-0.3520508	-0.5087891	-0.8920898	-0.3427734
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[2,]	0.10595703	-0.3652344	-1.1806641	-0.7270508	-0.4409180	0.1113281

[3,]	0.09082031	-0.3530273	-1.1606445	-0.7685547	-0.4086914	0.1713867
[4,]	0.08544922	-0.3457031	-1.1704102	-0.4370117	-0.3935547	0.2500000
[5,]	0.08447266	-0.3432617	-1.1669922	-0.4467773	-0.3876953	-1.2050781
[6,]	0.08398438	-0.3422852	-1.1660156	-0.4492188	-0.3867188	-1.2055664
[7,]	0.08447266	-0.3417969	-1.1650391	-0.4516602	-0.3867188	-1.2050781
[8,]	0.08300781	-0.3427734	-1.1655273	-0.4560547	-0.3862305	-1.2070312
[9,]	0.08300781	-0.3422852	-1.1650391	-0.4580078	-0.3857422	-1.2070312
[10,]	0.08251953	-0.3422852	-1.1650391	-0.4609375	-0.3852539	-1.2084961
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[2,]	-0.1684570	-0.26806641	-0.3208008	-0.6450195	0.17968750	-0.7680664
[3,]	-0.1904297	-0.31591797	-0.3237305	-0.6704102	0.16210938	-0.7626953
[4,]	-0.1972656	-0.41943359	-0.3198242	-0.6601562	0.15576172	-0.7656250
[5,]	-0.1987305	-0.45361328	-0.3193359	-0.6562500	0.15576172	-0.7656250
[6,]	-0.1982422	-0.44921875	-0.3193359	-0.6557617	0.15429688	-0.7661133
[7,]	-0.1977539	-0.44384766	-0.3188477	-0.6557617	0.15380859	-0.7661133
[8,]	-0.1982422	-0.43994141	-0.3193359	-0.6557617	0.15185547	-0.7666016
[9,]	-0.1982422	-0.43554688	-0.3193359	-0.6552734	0.15136719	-0.7670898
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[3,]	-0.7578125	-0.6103516	-0.3134766	-0.2856445	-0.7753906	0.5078125
[4,]	-0.7539062	-0.5976562	-0.3144531	-0.2885742	-0.8149414	0.6601562
[5,]	-0.7509766	-0.5898438	-0.3154297	-0.2890625	-0.8115234	0.6547852
[6,]	-0.7509766	-0.5883789	-0.3149414	-0.2885742	-0.8090820	0.6538086
[7,]	-0.7504883	-0.5874023	-0.3149414	-0.2885742	-0.8076172	0.6528320
[8,]	-0.7509766	-0.5874023	-0.3154297	-0.2890625	-0.8076172	0.6503906
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[2,]	-0.5224609	-0.55517578	0.25878906	-0.0004882812	-0.6567383	-0.04199219
[3,]	-0.5214844	-0.46728516	0.31835938	-0.0097656250	-0.6508789	-0.04736328
[4,]	-0.5219727	-0.53857422	0.30078125	-0.0117187500	-0.6489258	-0.04931641
[5,]	-0.5214844	-0.52441406	0.29345703	-0.0107421875	-0.6459961	-0.04882812
[6,]	-0.5200195	-0.52392578	0.29199219	-0.0102539062	-0.6455078	-0.04736328
[7,]	-0.5200195	-0.52343750	0.29101562	-0.0102539062	-0.6455078	-0.04785156
[8,]	-0.5205078	-0.52343750	0.28759766	-0.0112304688	-0.6459961	-0.04882812
[9,]	-0.5200195	-0.52343750	0.28613281	-0.0107421875	-0.6455078	-0.04785156
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[4,]	-0.7968750	-0.5009766	-0.06640625	0.8930664	-0.4375000	-0.4946289	
[5,]	-0.8032227	-0.5019531	-0.06445312	0.9003906	-0.4423828	-0.5073242	
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[8,]	-0.8046875	-0.5034180	-0.06494141	0.8935547	-0.4477539	-0.5068359	
[9,]	-0.8051758	-0.5024414	-0.06396484	0.8916016	-0.4482422	-0.5068359	
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[2,]	-0.9545898	-0.8198242	-0.5253906	-0.5014648	-0.5351562	0.6450195	1.731934
[3,]	-0.9204102	-0.8666992	-0.5268555	-0.6098633	-0.5317383	0.6083984	1.292480
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[7,]	-0.9038086	-0.8510742	-0.5244141	-0.6533203	-0.5307617	0.5874023	1.284668
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[9,]	-0.9023438	-0.8510742	-0.5249023	-0.6508789	-0.5307617	0.5839844	1.260742
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[2,]	-0.01416016	-0.1757812	-0.5375977	-0.8046875	0.9125977	-0.7592773	
[3,]	-0.02294922	-0.1699219	-0.5351562	-0.8281250	0.9970703	-0.7382812	
[4,]	0.05224609	-0.1665039	-0.5351562	-0.8339844	1.0356445	-0.7255859	
[5,]	0.03710938	-0.1645508	-0.5341797	-0.8369141	1.0502930	-0.7348633	
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[7,]	0.03222656	-0.1635742	-0.5332031	-0.8378906	1.0493164	-0.7299805	
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[9,]	0.02636719	-0.1655273	-0.5336914	-0.8388672	1.0478516	-0.7275391	
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[2,]	0.17431641	-0.3627930	-0.5673828	-0.14453125	-0.4604492	-0.2001953	
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[4,]	0.21679688	-0.3398438	-0.5185547	-0.06738281	-0.4804688	-0.2265625	
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[3,]	1.2719727	-0.03955078	-0.6142578	-1.582031	-1.035156	-0.09130859
[4,]	1.2353516	-0.05029297	-0.6103516	-1.590332	-1.019531	-0.10107422
[5,]	1.2211914	-0.05078125	-0.6088867	-1.599121	-1.021973	-0.10400391
[6,]	1.2202148	-0.05224609	-0.6088867	-1.601074	-1.021973	-0.10351562
[7,]	1.2187500	-0.05322266	-0.6079102	-1.603027	-1.021973	-0.10400391
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[3,]	-0.2270508	-0.8183594	0.8994141	0.7309570	0.5649414	-0.5556641
[4,]	-0.2104492	-0.8222656	0.9418945	0.6958008	0.5815430	-0.5009766
[5,]	-0.1889648	-0.8242188	0.9760742	0.6821289	0.5869141	-0.5048828
[6,]	-0.1992188	-0.8237305	0.9609375	0.6796875	0.5869141	-0.5058594
[7,]	-0.2089844	-0.8227539	0.9453125	0.6772461	0.5859375	-0.5078125
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[3,]	-0.4453125	-0.2431641	-0.11669922	0.1992188	-0.3554688	0.03369141
[4,]	-0.4697266	-0.2500000	-0.12353516	0.1923828	-0.3471680	0.03076172
[5,]	-0.4682617	-0.2519531	-0.12597656	0.1899414	-0.3544922	0.02978516
[6,]	-0.4682617	-0.2514648	-0.12695312	0.1884766	-0.3535156	0.03027344
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[8,]	-0.4682617	-0.2534180	-0.13037109	0.1860352	-0.3535156	0.02978516
[9,]	-0.4677734	-0.2539062	-0.13085938	0.1850586	-0.3530273	0.03027344
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[3,]	-0.8100586	-0.8598633	-0.2060547	-0.5112305	0.09277344	-0.06542969
[4,]	-0.8178711	-0.8540039	-0.1230469	-0.5527344	0.08740234	-0.06640625
[5,]	-0.8198242	-0.8540039	-0.1303711	-0.5673828	0.08740234	-0.06494141
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[9,]	-0.8208008	-0.8544922	-0.1333008	-0.5786133	0.08593750	-0.06445312
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[3,]	-0.7573242	-0.4736328	-1.2895508	-1.0083008	0.8271484	-0.5898438
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[6,]	-0.7202148	-0.4770508	-1.3022461	-1.0756836	0.9140625	-0.4648438
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[8,]	-0.7216797	-0.4790039	-1.3012695	-1.0727539	0.9033203	-0.4750977
[9,]	-0.7211914	-0.4780273	-1.3007812	-1.0712891	0.8984375	-0.4799805
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[3,]	-1.560059	-1.210938	-0.04736328	0.9262695	-2.123535	-0.5981445	-0.6420898
[4,]	-1.539551	-1.199219	-0.04931641	0.9565430	-2.066406	-0.6977539	-0.6367188
[5,]	-1.519043	-1.134277	-0.04833984	0.9213867	-2.089844	-0.6958008	-0.6352539
[6,]	-1.515137	-1.136230	-0.04785156	0.9101562	-2.093750	-0.6958008	-0.6342773
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[3,]	-0.6083984	-1.738770	-0.8916016	-0.3906250	-0.3203125	-0.5883789
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[7,]	-0.6416016	-1.731445	-0.8779297	-0.3823242	-0.3203125	-0.6201172
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[3,]	-0.4003906	-0.28076172	-1.869629	-0.47656250	-0.8305664	-0.5258789
[4,]	-0.1757812	-0.34130859	-1.850586	-0.59326172	-0.8002930	-0.4936523
[5,]	-0.1801758	-0.34082031	-1.856934	-0.74609375	-0.7929688	-0.4877930
[6,]	-0.1791992	-0.34033203	-1.857422	-0.74511719	-0.7890625	-0.4868164
[7,]	-0.1787109	-0.33935547	-1.858398	-0.74511719	-0.7866211	-0.4868164
[8,]	-0.1791992	-0.33984375	-1.860352	-0.74511719	-0.7851562	-0.4863281
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[5,]	-0.9560547	-0.4511719	-1.176758	-0.8603516	-0.5224609	-0.3046875	
[6,]	-0.9545898	-0.4506836	-1.177246	-0.8603516	-0.5195312	-0.3037109	
[7,]	-0.9536133	-0.4501953	-1.177734	-0.8598633	-0.5180664	-0.3041992	
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[6,]	1.5234375	-0.1640625	-0.3945312	-0.06005859	-0.2143555	-0.6826172	
[7,]	1.5087891	-0.1635742	-0.3950195	-0.05957031	-0.2143555	-0.6811523	
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[6,]	-0.3466797	-0.3212891	-0.2143555	-0.5893555	-0.7207031	0.07226562	
[7,]	-0.3461914	-0.3208008	-0.2138672	-0.5903320	-0.7202148	0.07226562	
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[5,]	-0.7314453	-0.4799805	-1.440430	-1.033691	-0.3271484	-0.2827148	-1.475586
[6,]	-0.7309570	-0.4804688	-1.439453	-1.034668	-0.3276367	-0.2827148	-1.482422
[7,]	-0.7304688	-0.4804688	-1.437988	-1.035156	-0.3281250	-0.2832031	-1.489746
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[5,]	-0.3481445	-1.197754	-0.4726562	-1.758789	-1.852051	-1.956543	-1.801758
[6,]	-0.3491211	-1.197266	-0.4731445	-1.762695	-1.851074	-1.956543	-1.803223
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[8,]	-0.3525391	-1.198242	-0.4746094	-1.769531	-1.851074	-1.957520	-1.808105
[9,]	-0.3540039	-1.197754	-0.4746094	-1.771973	-1.851074	-1.958496	-1.808594
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[4,]	-0.06640625	-0.4506836	-0.7109375	-1.319824	-1.4931641	-0.51025391	
[5,]	-0.06494141	-0.4506836	-0.7778320	-1.336426	-1.4804688	-0.50341797	
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[2,]	-0.3544922	-0.2016602	-0.5195312	-0.3276367	-0.4877930	-0.2358398	
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[4,]	-0.3652344	-0.2602539	-0.4755859	-0.3081055	-0.4750977	-0.2583008	
[5,]	-0.3535156	-0.2597656	-0.4780273	-0.3085938	-0.4731445	-0.2592773	
[6,]	-0.3496094	-0.2592773	-0.4780273	-0.3076172	-0.4726562	-0.2587891	
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[8,]	-0.3427734	-0.2597656	-0.4780273	-0.3081055	-0.4726562	-0.2597656	
[9,]	-0.3393555	-0.2587891	-0.4780273	-0.3081055	-0.4721680	-0.2587891	
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[2,]	-0.3061523	-0.6669922	-0.4848633	-0.4848633	-0.6767578	0.3105469	
[3,]	-0.3071289	-0.6958008	-0.2612305	-0.5151367	-0.7368164	0.4624023	
[4,]	-0.3041992	-0.7397461	-0.2812500	-0.5258789	-0.7338867	0.4033203	
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[6,]	-0.3105469	-0.7348633	-0.2895508	-0.5312500	-0.7329102	0.5356445	
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[3,]	-1.233887	-0.0102539062	-0.05371094	0.3447266	-0.3481445	-0.3432617
[4,]	-1.229492	-0.0117187500	-0.05419922	0.3374023	-0.3476562	-0.3432617
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[6,]	-1.229980	-0.0112304688	-0.05419922	0.3320312	-0.3481445	-0.3432617
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[8,]	-1.230469	-0.0117187500	-0.05517578	0.3300781	-0.3481445	-0.3432617
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[3,]	-0.3422852	-0.05371094	-0.10351562	-0.3305664	-0.030761719	0.6528320
[4,]	-0.3408203	-0.05468750	-0.11328125	-0.3305664	-0.030761719	0.6269531
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[6,]	-0.3398438	-0.05468750	-0.11816406	-0.3291016	-0.031738281	0.6132812
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[8,]	-0.3398438	-0.05517578	-0.12207031	-0.3295898	-0.032226562	0.6025391
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[2,]	-0.0004882812	0.5698242	-0.5654297	-0.4355469	-0.8266602	-0.3193359
[3,]	-0.0102539062	0.5336914	-0.5532227	-0.4604492	-0.8334961	-0.3305664
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[5,]	-0.0102539062	0.5161133	-0.5439453	-0.5029297	-0.8276367	-0.3295898
[6,]	-0.0107421875	0.5146484	-0.5429688	-0.5063477	-0.8266602	-0.3300781
[7,]	-0.0112304688	0.5126953	-0.5424805	-0.5087891	-0.8261719	-0.3295898
[8,]	-0.0112304688	0.5107422	-0.5429688	-0.5126953	-0.8266602	-0.3305664
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[7,]	-0.04052734	-0.7822266	-0.9340820	-0.2666016	0.13574219	-0.3208008
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[3,]	-0.6455078	0.4077148	-0.4179688	-0.6103516	-1.1313477	0.6562500
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[5,]	-0.6425781	0.3798828	-0.4086914	-0.6440430	-1.1225586	0.6367188
[6,]	-0.6420898	0.3774414	-0.4077148	-0.6469727	-1.1220703	0.6337891
[7,]	-0.6420898	0.3745117	-0.4067383	-0.6499023	-1.1215820	0.6323242
[8,]	-0.6425781	0.3715820	-0.4067383	-0.6523438	-1.1215820	0.6293945
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[2,]	-0.3320312	0.1972656	-0.4062500	-1.711426	-1.110352	-0.3242188
[3,]	-0.3364258	0.1806641	-0.3750000	-1.723145	-1.102539	-0.2875977
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[1,]	2.585938	-1.669434	-0.5146484	-0.5317383	-0.6503906	-0.3422852
[2,]	-2.024902	-1.281250	-0.5073242	-0.4775391	-0.4467773	-0.7421875
[3,]	-2.025879	-1.473145	-0.4873047	-0.4916992	-0.4243164	-0.7636719
[4,]	-2.026367	-1.540527	-0.4916992	-0.4951172	-0.4384766	-0.8056641
[5,]	-2.029297	-1.548340	-0.4296875	-0.4946289	-0.4438477	-0.8017578

[6,]	-2.029785	-1.545410	-0.4296875	-0.4946289	-0.4448242	-0.8007812
[7,]	-2.030762	-1.542969	-0.4296875	-0.4941406	-0.4467773	-0.8002930
[8,]	-2.031738	-1.541016	-0.4306641	-0.4951172	-0.4487305	-0.8002930
[9,]	-2.031738	-1.538574	-0.4311523	-0.4951172	-0.4506836	-0.7993164
[10,]	-2.032715	-1.536621	-0.4311523	-0.4951172	-0.4521484	-0.7993164
	[,1865]	[,1866]	[,1867]	[,1868]	[,1869]	[,1870]
[1,]	-0.5234375	-0.4375000	-0.3891602	12.0219727	0.09521484	-0.3305664
[2,]	-0.3618164	-0.4492188	-0.4545898	-0.7709961	0.05468750	-0.1713867
[3,]	-0.7197266	-0.4790039	-0.7016602	-0.7192383	0.12402344	-0.1357422
[4,]	-0.6723633	-0.4750977	-0.6884766	-0.7998047	0.11865234	0.1606445
[5,]	-0.7431641	-0.4726562	-0.6840820	-0.7792969	0.11767578	0.1533203
[6,]	-0.7436523	-0.4726562	-0.6831055	-0.7749023	0.11767578	0.1528320
[7,]	-0.7446289	-0.4721680	-0.6816406	-0.7709961	0.11718750	0.1523438
[8,]	-0.7456055	-0.4736328	-0.6811523	-0.7685547	0.11621094	0.1499023
[9,]	-0.7465820	-0.4736328	-0.6791992	-0.7646484	0.11621094	0.1479492
[10,]	-0.7480469	-0.4741211	-0.6787109	-0.7617188	0.11523438	0.1455078
	[,1871]	[,1872]	[,1873]	[,1874]	[,1875]	[,1876]
[1,]	-0.5678711	-0.6596680	-0.6757812	-0.6079102	-0.4467773	-0.6660156
[2,]	-0.6035156	-0.5356445	-0.6953125	-0.4497070	-0.5937500	-0.5546875
[3,]	-0.5693359	-0.4628906	-0.7133789	-0.4833984	-0.5610352	-0.5771484
[4,]	-0.5522461	-0.2514648	-0.7055664	-0.4956055	-0.5424805	-0.5844727
[5,]	-0.5458984	-0.2583008	-0.7041016	-0.4995117	-0.5361328	-0.5878906
[6,]	-0.5454102	-0.2587891	-0.7026367	-0.4995117	-0.5332031	-0.5878906
[7,]	-0.5439453	-0.2602539	-0.7016602	-0.5000000	-0.5302734	-0.5883789
[8,]	-0.5439453	-0.2626953	-0.7021484	-0.5014648	-0.5283203	-0.5888672
[9,]	-0.5429688	-0.2631836	-0.7016602	-0.5019531	-0.5258789	-0.5888672
[10,]	-0.5415039	-0.2656250	-0.7016602	-0.5029297	-0.5239258	-0.5898438
	[,1877]	[,1878]	[,1879]	[,1880]	[,1881]	[,1882]
[1,]	-0.7099609	-0.3037109	-0.7099609	-0.3461914	-0.3266602	-0.6621094
[2,]	-0.7436523	-0.2822266	-0.7226562	-0.1904297	-0.6718750	-0.5463867
[3,]	-0.7368164	-0.2773438	-0.7089844	-0.2280273	-0.6992188	-0.5712891
[4,]	-0.7480469	-0.2744141	-0.7006836	-0.2426758	-0.6884766	-0.5786133
[5,]	-0.7470703	-0.2719727	-0.6977539	-0.2470703	-0.6831055	-0.5800781
[6,]	-0.7460938	-0.2709961	-0.6972656	-0.2475586	-0.6816406	-0.5800781
[7,]	-0.7460938	-0.2709961	-0.6967773	-0.2490234	-0.6811523	-0.5810547
[8,]	-0.7465820	-0.2714844	-0.6967773	-0.2500000	-0.6806641	-0.5815430
[9,]	-0.7456055	-0.2709961	-0.6962891	-0.2509766	-0.6796875	-0.5825195
[10,]	-0.7456055	-0.2714844	-0.6958008	-0.2524414	-0.6791992	-0.5834961
	[,1883]	[,1884]	[,1885]	[,1886]	[,1887]	[,1888]
[1,]	-0.6889648	0.2646484	1.006348	-0.16699219	-0.5288086	-0.07373047
[2,]	-0.7353516	-0.3383789	-1.333008	-0.23339844	-0.4345703	0.05078125
[3,]	-0.7246094	-0.4921875	-1.339844	-0.09667969	-0.4516602	-0.26025391
[4,]	-0.7177734	-0.4702148	-1.338867	-0.14160156	-0.4604492	-0.22949219

[5,]	-0.7158203	-0.4609375	-1.339355	-0.15673828	-0.4599609	-0.22167969
[6,]	-0.7148438	-0.4609375	-1.339355	-0.15820312	-0.4604492	-0.21972656
[7,]	-0.7138672	-0.4599609	-1.339355	-0.15917969	-0.4599609	-0.21826172
[8,]	-0.7143555	-0.4599609	-1.340820	-0.16064453	-0.4604492	-0.21777344
[9,]	-0.7138672	-0.4599609	-1.340332	-0.16162109	-0.4609375	-0.21630859
[10,]	-0.7133789	-0.4589844	-1.340820	-0.16210938	-0.4614258	-0.21533203
	[,1889]	[,1890]	[,1891]	[,1892]	[,1893]	[,1894]
[1,]	-0.3037109	0.07519531	-0.9389648	-0.4028320	-0.9326172	-0.2910156
[2,]	-0.3173828	0.04052734	-0.8637695	-0.5517578	-1.2456055	-0.2646484
[3,]	-0.3227539	0.10742188	-0.8623047	-0.4243164	-1.3398438	-0.3037109
[4,]	-0.2978516	0.10205078	-0.8305664	-0.4506836	-1.3217773	-0.3027344
[5,]	-0.2978516	0.10107422	-0.7026367	-0.4599609	-1.3222656	-0.2998047
[6,]	-0.2978516	0.10156250	-0.7036133	-0.4624023	-1.3217773	-0.2998047
[7,]	-0.2973633	0.10156250	-0.7041016	-0.4653320	-1.3217773	-0.2998047
[8,]	-0.2983398	0.10107422	-0.7060547	-0.4687500	-1.3227539	-0.3007812
[9,]	-0.2983398	0.10156250	-0.7060547	-0.4707031	-1.3222656	-0.3002930
[10,]	-0.2983398	0.10107422	-0.7080078	-0.4736328	-1.3227539	-0.3012695
	[,1895]	[,1896]	[,1897]	[,1898]	[,1899]	[,1900]
[1,]	-0.4589844	0.8349609	-0.5351562	-0.4638672	-0.8579102	0.0429687500
[2,]	-0.5678711	-0.1010742	-0.5351562	-0.4575195	-0.8510742	0.0136718750
[3,]	-0.5493164	-0.1660156	-0.5356445	-0.7163086	-0.8247070	0.0029296875
[4,]	-0.5600586	-0.1337891	-0.5327148	-0.6972656	-0.8320312	0.0009765625
[5,]	-0.5625000	-0.1225586	-0.5302734	-0.6879883	-0.8017578	0.0000000000
[6,]	-0.5625000	-0.1196289	-0.5302734	-0.6865234	-0.8012695	0.0004882812
[7,]	-0.5629883	-0.1181641	-0.5297852	-0.6865234	-0.8007812	0.0009765625
[8,]	-0.5629883	-0.1162109	-0.5302734	-0.6870117	-0.8007812	0.0000000000
[9,]	-0.5639648	-0.1142578	-0.5297852	-0.6860352	-0.8007812	-0.0004882812
[10,]	-0.5639648	-0.1127930	-0.5297852	-0.6865234	-0.8007812	-0.0014648438
	[,1901]	[,1902]	[,1903]	[,1904]	[,1905]	[,1906]
[1,]	-0.5273438	-0.4721680	-0.7734375	-0.2685547	-0.5898438	-0.8671875
[2,]	-0.5053711	-0.5170898	-0.7578125	-0.2954102	-0.4956055	-0.8559570
[3,]	-0.5009766	-0.5463867	-0.7246094	-0.3276367	-0.4731445	-0.8579102
[4,]	-0.4951172	-0.5576172	-0.7319336	-0.3388672	-0.4863281	-0.8457031
[5,]	-0.4931641	-0.5610352	-0.7324219	-0.3432617	-0.4897461	-0.8466797
[6,]	-0.4926758	-0.5610352	-0.7333984	-0.3447266	-0.4897461	-0.8466797
[7,]	-0.4926758	-0.5620117	-0.7329102	-0.3457031	-0.4912109	-0.8461914
[8,]	-0.4931641	-0.5620117	-0.7343750	-0.3481445	-0.4926758	-0.8466797
[9,]	-0.4926758	-0.5625000	-0.7348633	-0.3491211	-0.4936523	-0.8471680
[10,]	-0.4921875	-0.5634766	-0.7358398	-0.3505859	-0.4941406	-0.8476562
	[,1907]	[,1908]	[,1909]	[,1910]	[,1911]	[,1912]
[1,]	0.0249023438	-0.01416016	-1.076660	0.4135742	-0.9472656	0.3339844
[2,]	-0.0004882812	0.14257812	-1.459473	0.4765625	-0.8950195	-0.7441406
[3,]	-0.0102539062	0.12646484	-1.481445	0.5952148	-0.4350586	-0.7631836

[4,]	-0.0117187500	0.12353516	-1.479980	0.7011719	-0.2392578	-0.7558594
[5,]	-0.0107421875	0.12158203	-1.479492	0.6850586	-0.2519531	-0.7539062
[6,]	-0.0107421875	0.12158203	-1.479004	0.6772461	-0.2548828	-0.7524414
[7,]	-0.0117187500	0.12011719	-1.479004	0.6704102	-0.2573242	-0.7504883
[8,]	-0.0122070312	0.11914062	-1.479492	0.6625977	-0.2602539	-0.7495117
[9,]	-0.0126953125	0.11865234	-1.478516	0.6562500	-0.2631836	-0.7480469
[10,]	-0.0131835938	0.11767578	-1.479004	0.6489258	-0.2661133	-0.7465820
	[,1913]	[,1914]	[,1915]	[,1916]	[,1917]	[,1918]
[1,]	-0.6035156	0.04248047	0.3579102	0.0429687500	0.0249023438	-0.1596680
[2,]	-0.8022461	-0.21582031	-0.4970703	0.0131835938	-0.0004882812	-0.1406250
[3,]	-0.8623047	-0.26904297	-0.5380859	0.0029296875	-0.0102539062	-0.1650391
[4,]	-0.8432617	-0.12597656	-0.5307617	0.0009765625	-0.0117187500	-0.1713867
[5,]	-0.9018555	-0.14599609	-0.5292969	0.0000000000	-0.0102539062	-0.1752930
[6,]	-0.9008789	-0.15625000	-0.5288086	0.0009765625	-0.0107421875	-0.1748047
[7,]	-0.8999023	-0.16601562	-0.5288086	0.0014648438	-0.0112304688	-0.1752930
[8,]	-0.8999023	-0.17626953	-0.5292969	0.0000000000	-0.0122070312	-0.1772461
[9,]	-0.8989258	-0.18554688	-0.5292969	0.0004882812	-0.0122070312	-0.1772461
[10,]	-0.8989258	-0.19482422	-0.5288086	0.0000000000	-0.0131835938	-0.1782227
	[,1919]	[,1920]	[,1921]	[,1922]	[,1923]	[,1924]
[1,]	3.215332	-0.3037109	-0.3325195	-0.2070312	0.1455078	1.1562500
[2,]	2.837891	-0.3144531	-0.4511719	-0.1850586	0.3955078	-0.4985352
[3,]	2.614746	-0.3164062	-0.5546875	-0.2055664	0.3447266	-0.4897461
[4,]	2.669434	-0.3129883	-0.5927734	-0.2109375	0.3247070	-0.4843750
[5,]	2.691895	-0.3120117	-0.5898438	-0.2133789	0.3188477	-0.4814453
[6,]	2.677246	-0.3120117	-0.5893555	-0.2138672	0.3164062	-0.4799805
[7,]	2.662598	-0.3110352	-0.5893555	-0.2143555	0.3134766	-0.4785156
[8,]	2.647949	-0.3120117	-0.5898438	-0.2143555	0.3110352	-0.4780273
[9,]	2.634766	-0.3115234	-0.5893555	-0.2138672	0.3081055	-0.4760742
[10,]	2.621094	-0.3120117	-0.5888672	-0.2153320	0.3051758	-0.4755859
	[,1926]	[,1927]	[,1928]	[,1929]	[,1930]	[,1931]
[1,]	-0.3461914	-0.7802734	-0.3452148	-0.5278320	-0.0234375	0.3676758
[2,]	-0.2807617	-0.7670898	-0.3251953	-0.5800781	-1.6757812	0.2836914
[3,]	-0.2441406	-0.7426758	-0.3315430	-0.5673828	-1.7104492	0.2607422
[4,]	-0.2587891	-0.7500000	-0.3334961	-0.5576172	-1.7514648	0.2519531
[5,]	-0.2636719	-0.7500000	-0.3330078	-0.5561523	-1.7441406	0.2490234
[6,]	-0.2641602	-0.7500000	-0.3320312	-0.5546875	-1.7426758	0.2475586
[7,]	-0.2651367	-0.7495117	-0.3325195	-0.5532227	-1.7421875	0.2465820
[8,]	-0.2670898	-0.7504883	-0.3334961	-0.5537109	-1.7421875	0.2441406
[9,]	-0.2685547	-0.7504883	-0.3325195	-0.5527344	-1.7412109	0.2436523
[10,]	-0.2695312	-0.7514648	-0.3330078	-0.5522461	-1.7412109	0.2416992
	[,1932]	[,1933]	[,1934]	[,1935]	[,1936]	[,1937]
[1,]	-0.7944336	0.07470703	-0.3344727	-0.7241211	-0.2724609	-0.6474609
[2,]	-0.5747070	-0.57763672	-0.4819336	-0.6762695	-0.2480469	-0.5488281

[3,]	-0.7924805	-0.51953125	-0.3969727	-0.6914062	-0.2915039	-0.5180664
[4,]	-0.7705078	-0.59667969	-0.2226562	-0.6650391	-0.2910156	-0.5913086
[5,]	-0.7612305	-0.58789062	-0.2314453	-0.6542969	-0.2880859	-0.5854492
[6,]	-0.7612305	-0.58496094	-0.2343750	-0.6528320	-0.2885742	-0.5849609
[7,]	-0.7617188	-0.58349609	-0.2373047	-0.6523438	-0.2875977	-0.5839844
[8,]	-0.7622070	-0.58203125	-0.2412109	-0.6523438	-0.2880859	-0.5849609
[9,]	-0.7622070	-0.58007812	-0.2441406	-0.6518555	-0.2880859	-0.5839844
[10,]	-0.7626953	-0.57861328	-0.2475586	-0.6518555	-0.2885742	-0.5834961
	[,1938]	[,1939]	[,1940]	[,1941]	[,1942]	[,1943]
[1,]	-1.498047	-1.600098	1.498047	-0.9448242	-0.4975586	-0.38525391
[2,]	-1.507812	-1.565918	-1.489746	-0.9384766	-0.6259766	0.07910156
[3,]	-1.507812	-1.593262	-1.388184	-0.9433594	-0.5668945	-0.27392578
[4,]	-1.506348	-1.589355	-1.364746	-0.9418945	-0.5893555	-0.37207031
[5,]	-1.506836	-1.589355	-1.382324	-0.9414062	-0.5961914	-0.33740234
[6,]	-1.506836	-1.588867	-1.385742	-0.9404297	-0.5981445	-0.32958984
[7,]	-1.506836	-1.588379	-1.388184	-0.9409180	-0.5986328	-0.32373047
[8,]	-1.506836	-1.589355	-1.391602	-0.9409180	-0.6010742	-0.31884766
[9,]	-1.506348	-1.588867	-1.395020	-0.9409180	-0.6025391	-0.31250000
[10,]	-1.507324	-1.589355	-1.397461	-0.9409180	-0.6040039	-0.30712891
	[,1944]	[,1945]	[,1946]	[,1947]	[,1948]	[,1949]
[1,]	-0.3989258	4.201660	-0.04931641	0.07958984	-0.4741211	-0.4697266
[2,]	-0.5942383	-1.454102	-0.14062500	0.05126953	-0.5258789	-0.6123047
[3,]	-0.6801758	-1.426758	-0.16601562	0.06787109	-0.6918945	-0.6328125
[4,]	-0.6406250	-1.363770	-0.17382812	0.16210938	-0.6772461	-0.5898438
[5,]	-0.6499023	-1.381348	-0.17675781	0.15185547	-0.6723633	-0.5947266
[6,]	-0.6518555	-1.384277	-0.17724609	0.14941406	-0.6723633	-0.5932617
[7,]	-0.6538086	-1.387207	-0.17822266	0.14599609	-0.6723633	-0.5937500
[8,]	-0.6562500	-1.390137	-0.17919922	0.14355469	-0.6723633	-0.5942383
[9,]	-0.6582031	-1.392578	-0.18066406	0.14111328	-0.6723633	-0.5942383
[10,]	-0.6606445	-1.395996	-0.18212891	0.13818359	-0.6723633	-0.5947266
	[,1950]	[,1951]	[,1952]	[,1953]	[,1954]	[,1955]
[1,]	-0.6694336	-0.3618164	-0.7758789	-0.6503906	-1.094238	-0.6826172
[2,]	-0.6445312	-0.4433594	-0.7617188	-0.5170898	-1.258789	-0.6323242
[3,]	-0.4653320	-0.2910156	-0.7592773	-0.5434570	-1.259277	-0.5996094
[4,]	-0.4775391	-0.3022461	-0.7592773	-0.5546875	-1.259766	-0.6635742
[5,]	-0.3906250	-0.3071289	-0.7607422	-0.5561523	-1.258301	-0.6577148
[6,]	-0.3901367	-0.3071289	-0.7602539	-0.5576172	-1.257812	-0.6557617
[7,]	-0.3916016	-0.3085938	-0.7602539	-0.5590820	-1.256836	-0.6533203
[8,]	-0.3935547	-0.3090820	-0.7607422	-0.5615234	-1.257812	-0.6528320
[9,]	-0.3935547	-0.3095703	-0.7612305	-0.5629883	-1.258301	-0.6508789
[10,]	-0.3950195	-0.3110352	-0.7622070	-0.5644531	-1.258301	-0.6503906
	[,1956]	[,1957]	[,1958]	[,1959]	[,1960]	[,1961]
[1,]	-0.18994141	-0.21484375	-0.2314453	-1.112305	-0.6464844	-0.3383789

[2,]	-0.07617188	0.06445312	-0.2661133	-1.128418	-0.5986328	-0.3276367
[3,]	-0.02148438	0.10595703	-0.3017578	-1.130371	-0.7534180	-0.3242188
[4,]	-0.03173828	0.08105469	-0.2172852	-1.129395	-0.7299805	-0.3208008
[5,]	-0.03613281	0.39794922	-0.2221680	-1.129395	-0.7211914	-0.3208008
[6,]	-0.03662109	0.39794922	-0.2226562	-1.128906	-0.7211914	-0.3193359
[7,]	-0.03759766	0.39843750	-0.2231445	-1.128418	-0.7211914	-0.3193359
[8,]	-0.03906250	0.39892578	-0.2246094	-1.128906	-0.7221680	-0.3198242
[9,]	-0.03955078	0.39843750	-0.2250977	-1.128906	-0.7226562	-0.3198242
[10,]	-0.04003906	0.39843750	-0.2270508	-1.129395	-0.7231445	-0.3203125
	[,1962]	[,1963]	[,1964]	[,1965]	[,1966]	[,1967]
[1,]	0.3413086	-0.5161133	-1.0551758	-0.6689453	-0.3159180	-0.2910156
[2,]	0.2617188	-0.4877930	-0.7827148	-0.6088867	-0.2949219	-0.3061523
[3,]	0.2382812	-0.4790039	-0.7514648	-0.6274414	-0.2924805	-0.3076172
[4,]	0.2309570	-0.4750977	-0.7788086	-0.6318359	-0.2875977	-0.3037109
[5,]	0.2290039	-0.4731445	-0.7861328	-0.5883789	-0.2875977	-0.3037109
[6,]	0.2280273	-0.4726562	-0.7890625	-0.5888672	-0.2866211	-0.3027344
[7,]	0.2275391	-0.4721680	-0.7910156	-0.5888672	-0.2861328	-0.3017578
[8,]	0.2260742	-0.4731445	-0.7944336	-0.5893555	-0.2866211	-0.3027344
[9,]	0.2250977	-0.4726562	-0.7963867	-0.5898438	-0.2861328	-0.3022461
[10,]	0.2241211	-0.4731445	-0.7983398	-0.5903320	-0.2856445	-0.3027344
	[,1968]	[,1969]	[,1970]	[,1971]	[,1972]	[,1973]
[1,]	-0.5161133	-0.4335938	0.350097656	-0.8720703	-0.6381836	-1.363770
[2,]	-0.4877930	-0.2104492	0.004882812	-0.8671875	-0.5903320	-1.351074
[3,]	-0.4790039	-0.1484375	0.348144531	-0.8647461	-0.6401367	-1.360840
[4,]	-0.5126953	-0.1176758	0.238281250	-0.8535156	-0.6489258	-1.331055
[5,]	-0.5117188	-0.1079102	0.303710938	-0.8554688	-0.6479492	-1.338379
[6,]	-0.5117188	-0.1059570	0.293457031	-0.8554688	-0.6474609	-1.340820
[7,]	-0.5112305	-0.1049805	0.284179688	-0.8549805	-0.6474609	-1.342773
[8,]	-0.5122070	-0.1040039	0.274414062	-0.8559570	-0.6479492	-1.344727
[9,]	-0.5122070	-0.1030273	0.265625000	-0.8554688	-0.6474609	-1.346680
[10,]	-0.5122070	-0.1020508	0.256347656	-0.8564453	-0.6479492	-1.348633
	[,1974]	[,1975]	[,1976]	[,1977]	[,1978]	[,1979]
[1,]	-0.4306641	-0.5727539	0.01220703	-0.01464844	-0.3159180	-0.8583984
[2,]	-0.4038086	-0.5644531	-0.01171875	-0.03320312	-0.3208008	-0.8481445
[3,]	-0.5737305	-0.6235352	-0.01904297	-0.04052734	-0.3237305	-0.8417969
[4,]	-0.6372070	-0.6186523	-0.02050781	-0.04150391	-0.3198242	-0.8354492
[5,]	-0.7285156	-0.6162109	-0.02148438	-0.04003906	-0.3193359	-0.8325195
[6,]	-0.7260742	-0.6152344	-0.02099609	-0.04003906	-0.3193359	-0.8305664
[7,]	-0.7250977	-0.6147461	-0.02099609	-0.03955078	-0.3183594	-0.8300781
[8,]	-0.7236328	-0.6157227	-0.02148438	-0.04052734	-0.3188477	-0.8310547
[9,]	-0.7221680	-0.6157227	-0.02148438	-0.04052734	-0.3188477	-0.8300781
[10,]	-0.7216797	-0.6152344	-0.02148438	-0.04101562	-0.3193359	-0.8291016
	[,1980]	[,1981]	[,1982]	[,1983]	[,1984]	[,1985]

[1,]	-0.9301758	-0.1201172	-1.1069336	0.3676758	-0.3422852	-0.2910156
[2,]	-0.6259766	-0.2021484	-0.7011719	0.5659180	-0.3222656	-0.2646484
[3,]	-0.5747070	-0.1884766	-0.5610352	0.5312500	-0.3286133	-0.2617188
[4,]	-0.5986328	-0.1772461	-0.5214844	0.5209961	-0.3310547	-0.2563477
[5,]	-0.6069336	-0.1748047	-0.5356445	0.5156250	-0.3295898	-0.2553711
[6,]	-0.6079102	-0.1748047	-0.5410156	0.5141602	-0.3286133	-0.2553711
[7,]	-0.6088867	-0.1743164	-0.5463867	0.5131836	-0.3291016	-0.2548828
[8,]	-0.6103516	-0.1752930	-0.5532227	0.5107422	-0.3295898	-0.2553711
[9,]	-0.6113281	-0.1752930	-0.5590820	0.5102539	-0.3295898	-0.2553711
[10,]	-0.6127930	-0.1757812	-0.5644531	0.5078125	-0.3295898	-0.2558594
	[,1986]	[,1987]	[,1988]	[,1989]	[,1990]	[,1991]
[1,]	0.02490234	-0.7504883	-1.0302734	-1.1635742	-0.5278320	-0.3002930
[2,]	0.19726562	-0.6474609	-0.9916992	-0.9936523	-0.6142578	-0.3256836
[3,]	0.18066406	-0.5341797	-1.0346680	-1.3769531	-0.6079102	-0.3959961
[4,]	0.17626953	-0.5512695	-1.0263672	-1.3784180	-0.6269531	-0.3852539
[5,]	0.17333984	-0.5561523	-1.0263672	-1.3706055	-0.6250000	-0.3798828
[6,]	0.17187500	-0.5571289	-1.0258789	-1.3691406	-0.6245117	-0.3798828
[7,]	0.17187500	-0.5585938	-1.0258789	-1.3681641	-0.6240234	-0.3803711
[8,]	0.16894531	-0.5600586	-1.0263672	-1.3676758	-0.6230469	-0.3813477
[9,]	0.16894531	-0.5620117	-1.0263672	-1.3662109	-0.6225586	-0.3808594
[10,]	0.16650391	-0.5639648	-1.0263672	-1.3657227	-0.6235352	-0.3823242
	[,1992]	[,1993]	[,1994]	[,1995]	[,1996]	[,1997]
[1,]	-0.4199219	-0.12060547	1.1162109	-1.163574	-0.5151367	-0.4199219
[2,]	-0.4775391	0.01953125	-0.5180664	-1.144531	-0.5073242	-0.4257812
[3,]	-0.4936523	-0.02587891	-0.6015625	-1.156250	-0.4877930	-0.3984375
[4,]	-0.4926758	-0.04150391	-0.5878906	-1.156250	-0.4912109	-0.4067383
[5,]	-0.4907227	-0.04687500	-0.6083984	-1.146973	-0.4926758	-0.4077148
[6,]	-0.4907227	-0.04833984	-0.6137695	-1.147461	-0.4936523	-0.4082031
[7,]	-0.4902344	-0.05029297	-0.6186523	-1.147461	-0.4946289	-0.4086914
[8,]	-0.4912109	-0.05175781	-0.6240234	-1.148438	-0.4956055	-0.4106445
[9,]	-0.4907227	-0.05322266	-0.6284180	-1.148438	-0.4960938	-0.4106445
[10,]	-0.4902344	-0.05566406	-0.6328125	-1.148926	-0.4965820	-0.4116211
	[,1998]	[,1999]	[,2000]	[,2001]	[,2002]	[,2003]
[1,]	-1.239258	-0.3334961	-0.4375000	0.02490234	-0.3242188	0.0249023438
[2,]	-1.209961	-0.2539062	-0.4492188	0.08984375	1.6796875	-0.0004882812
[3,]	-1.218750	-0.2675781	-0.4794922	0.07763672	1.6630859	-0.0102539062
[4,]	-1.209473	-0.2709961	-0.4746094	0.07275391	1.6245117	-0.0117187500
[5,]	-1.211426	-0.2734375	-0.4726562	0.07226562	1.6455078	-0.0102539062
[6,]	-1.212402	-0.2724609	-0.4726562	0.07177734	1.6225586	-0.0107421875
[7,]	-1.212891	-0.2729492	-0.4721680	0.07177734	1.5991211	-0.0107421875
[8,]	-1.214355	-0.2734375	-0.4731445	0.07080078	1.5761719	-0.0117187500
[9,]	-1.214844	-0.2734375	-0.4731445	0.07128906	1.5541992	-0.0117187500
[10,]	-1.215820	-0.2739258	-0.4741211	0.07080078	1.5332031	-0.0112304688

	[,2004]	[,2005]	[,2006]	[,2007]	[,2008]	[,2009]
[1,]	0.02929688	-0.038085938	-0.2910156	-0.03759766	0.02929688	0.04003906
[2,]	-0.30664062	0.018066406	-0.1899414	-0.04980469	-0.45117188	0.01806641
[3,]	-0.33203125	0.007812500	-0.2055664	-0.05419922	-0.45117188	-0.09326172
[4,]	-0.33837891	0.007324219	-0.2109375	-0.05419922	-0.44628906	-0.07226562
[5,]	-0.34179688	0.005859375	-0.2119141	-0.05517578	-0.44677734	-0.06542969
[6,]	-0.34130859	0.005371094	-0.2124023	-0.05419922	-0.44628906	-0.06152344
[7,]	-0.34179688	0.004882812	-0.2124023	-0.05468750	-0.44580078	-0.05859375
[8,]	-0.34277344	0.004882812	-0.2133789	-0.05517578	-0.44628906	-0.05664062
[9,]	-0.34277344	0.003906250	-0.2128906	-0.05468750	-0.44580078	-0.05419922
[10,]	-0.34375000	0.004394531	-0.2138672	-0.05517578	-0.44628906	-0.05273438
	[,2010]	[,2011]	[,2012]	[,2013]	[,2014]	[,2015]
[1,]	-0.6474609	-0.2841797	-0.6523438	-0.2924805	-0.3334961	-0.3403320
[2,]	-0.6201172	-0.1806641	-0.6108398	-0.2846680	-0.3457031	-0.3334961
[3,]	-0.5981445	-0.2036133	-0.6303711	-0.2456055	-0.3496094	-0.3369141
[4,]	-0.6513672	-0.2099609	-0.6245117	-0.2280273	-0.3500977	-0.3364258
[5,]	-0.6474609	-0.2109375	-0.6230469	-0.2211914	-0.3496094	-0.3105469
[6,]	-0.6469727	-0.2114258	-0.6220703	-0.2202148	-0.3486328	-0.3105469
[7,]	-0.6469727	-0.2114258	-0.6215820	-0.2187500	-0.3491211	-0.3105469
[8,]	-0.6469727	-0.2138672	-0.6220703	-0.2182617	-0.3500977	-0.3120117
[9,]	-0.6464844	-0.2148438	-0.6210938	-0.2177734	-0.3491211	-0.3120117
[10,]	-0.6464844	-0.2163086	-0.6210938	-0.2172852	-0.3500977	-0.3120117
	[,2016]	[,2017]	[,2018]	[,2019]	[,2020]	[,2021]
[1,]	0.01269531	-0.10644531	0.06884766	-0.002929688	-0.7402344	-1.230469
[2,]	-0.01171875	0.01269531	0.30273438	-0.023437500	-1.1225586	-1.312500
[3,]	-0.01904297	-0.02050781	0.36425781	0.029785156	-1.1186523	-1.350098
[4,]	-0.02050781	-0.02978516	0.39453125	0.027343750	-1.1308594	-1.351074
[5,]	-0.02148438	-0.03466797	0.40429688	0.027343750	-1.1269531	-1.357422
[6,]	-0.02148438	-0.03564453	0.40527344	0.027343750	-1.1254883	-1.356934
[7,]	-0.02148438	-0.03710938	0.40576172	0.026855469	-1.1235352	-1.356934
[8,]	-0.02246094	-0.03955078	0.40527344	0.025878906	-1.1230469	-1.357422
[9,]	-0.02246094	-0.04052734	0.40625000	0.025878906	-1.1215820	-1.357422
[10,]	-0.02294922	-0.04296875	0.40576172	0.025390625	-1.1206055	-1.357910
	[,2022]	[,2023]	[,2024]	[,2025]	[,2026]	[,2027]
[1,]	-0.98779297	-1.132324	4.420410156	0.1748047	0.1127930	0.08935547
[2,]	0.07470703	-1.081543	4.187011719	0.6684570	0.3037109	0.16894531
[3,]	0.06250000	-1.116211	0.054687500	0.6298828	0.5019531	0.18994141
[4,]	0.45605469	-1.100098	-0.040039062	0.6162109	0.4907227	0.19970703
[5,]	0.41748047	-1.109375	-0.020996094	0.7934570	0.4863281	0.20410156
[6,]	0.40869141	-1.110352	-0.015136719	0.7905273	0.4843750	0.20458984
[7,]	0.40087891	-1.111328	-0.009765625	0.7871094	0.4824219	0.20556641
[8,]	0.39257812	-1.112793	-0.005371094	0.7832031	0.4799805	0.20605469
[9,]	0.38476562	-1.113281	0.000000000	0.7802734	0.4785156	0.20703125

[10,]	0.37695312	-1.114258	0.004882812	0.7763672	0.4765625	0.20703125
	[,2028]	[,2029]	[,2030]	[,2031]	[,2032]	[,2033]
[1,]	0.2675781	-0.07421875	-0.01416016	2.6430664	2.2114258	0.7753906
[2,]	0.4643555	-0.10498047	0.04248047	-0.8149414	0.2597656	0.8891602
[3,]	0.6772461	-0.14355469	0.03369141	-0.7729492	0.3222656	0.8559570
[4,]	0.6625977	-0.15673828	0.03076172	-0.8989258	-0.1303711	0.9189453
[5,]	0.6586914	-0.16015625	0.02978516	-0.8950195	-0.1215820	0.7026367
[6,]	0.6562500	-0.16308594	0.02978516	-0.8920898	-0.1181641	0.7016602
[7,]	0.6542969	-0.16699219	0.02929688	-0.8896484	-0.1142578	0.6992188
[8,]	0.6503906	-0.17089844	0.02929688	-0.8881836	-0.1118164	0.6972656
[9,]	0.6489258	-0.17333984	0.02880859	-0.8862305	-0.1083984	0.6948242
[10,]	0.6459961	-0.17675781	0.02832031	-0.8847656	-0.1059570	0.6933594
	[,2034]	[,2035]	[,2036]	[,2037]	[,2038]	[,2039]
[1,]	-0.3037109	1.0556641	-0.4741211	0.03808594	0.45996094	-0.2377930
[2,]	-0.3144531	0.3232422	-0.4199219	0.17041016	0.65869141	-0.2929688
[3,]	-0.3164062	0.3686523	-0.5532227	0.02441406	0.08056641	-0.3510742
[4,]	-0.3129883	0.3901367	-0.5356445	0.04003906	0.10156250	-0.3461914
[5,]	-0.3129883	0.3974609	-0.5292969	0.04589844	0.10937500	-0.3452148
[6,]	-0.3129883	0.3989258	-0.5292969	0.04541016	0.11181641	-0.3442383
[7,]	-0.3125000	0.4003906	-0.5292969	0.04394531	0.11328125	-0.3442383
[8,]	-0.3134766	0.3999023	-0.5307617	0.04296875	0.11425781	-0.3447266
[9,]	-0.3125000	0.4013672	-0.5307617	0.04199219	0.11621094	-0.3442383
[10,]	-0.3129883	0.4018555	-0.5317383	0.04101562	0.11669922	-0.3442383
	[,2040]	[,2041]	[,2042]	[,2043]	[,2044]	[,2045]
[1,]	-0.3461914	-0.2211914	-0.2910156	-0.3383789	0.11279297	-0.6367188
[2,]	-0.3300781	-0.3515625	-0.2641602	-0.3276367	0.07080078	-0.5556641
[3,]	-0.3359375	-0.4521484	-0.2617188	-0.3247070	0.05810547	-0.5810547
[4,]	-0.3354492	-0.4404297	-0.2563477	-0.3208008	0.05517578	-0.5288086
[5,]	-0.3344727	-0.4360352	-0.2553711	-0.3203125	0.05419922	-0.5317383
[6,]	-0.3344727	-0.4355469	-0.2548828	-0.3193359	0.05371094	-0.5327148
[7,]	-0.3339844	-0.4345703	-0.2543945	-0.3198242	0.05419922	-0.5336914
[8,]	-0.3344727	-0.4355469	-0.2543945	-0.3203125	0.05371094	-0.5341797
[9,]	-0.3344727	-0.4355469	-0.2534180	-0.3198242	0.05273438	-0.5346680
[10,]	-0.3349609	-0.4355469	-0.2543945	-0.3198242	0.05273438	-0.5351562
	[,2046]	[,2047]	[,2048]	[,2049]	[,2050]	[,2051]
[1,]	-0.7812500	0.01269531	-0.05468750	-0.02734375	-0.1191406	-0.2070312
[2,]	-0.7563477	0.17968750	-0.06103516	-0.04199219	0.8676758	-0.2617188
[3,]	-0.6987305	0.25732422	-0.06542969	-0.04736328	0.7773438	-0.2792969
[4,]	-0.7065430	0.24951172	-0.06640625	-0.04931641	0.7392578	-0.2817383
[5,]	-0.7080078	0.24804688	-0.06445312	-0.04882812	0.7270508	-0.2832031
[6,]	-0.7080078	0.24609375	-0.06445312	-0.04736328	0.7211914	-0.2832031
[7,]	-0.7080078	0.24316406	-0.06494141	-0.04785156	0.7153320	-0.2832031
[8,]	-0.7094727	0.23925781	-0.06494141	-0.04833984	0.7084961	-0.2841797

[9,]	-0.7089844	0.23681641	-0.06445312	-0.04882812	0.7036133	-0.2841797	
[10,]	-0.7094727	0.23437500	-0.06494141	-0.04882812	0.6972656	-0.2851562	
	[,2052]	[,2053]	[,2054]	[,2055]	[,2056]	[,2057]	
[1,]	-0.2709961	6.192871	-0.6308594	-1.176270	-0.9726562	-0.5839844	
[2,]	-0.3188477	-1.573242	-1.0141602	-1.101562	-0.9067383	-0.3569336	
[3,]	-0.3056641	-1.549805	-1.1508789	-1.120117	-0.8413086	-0.3710938	
[4,]	-0.3911133	-1.628418	-1.2050781	-1.101562	-0.8046875	-0.3134766	
[5,]	-0.3891602	-1.625000	-1.1967773	-1.107910	-0.8144531	-0.3251953	
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[7,]	-0.3881836	-1.623047	-1.1914062	-1.107910	-0.8144531	-0.3271484	
[8,]	-0.3886719	-1.623047	-1.1904297	-1.108887	-0.8159180	-0.3291016	
[9,]	-0.3881836	-1.622559	-1.1879883	-1.109375	-0.8159180	-0.3300781	
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[4,]	-0.9033203	-1.226074	-0.7197266	0.01220703	1.9511719	-0.3339844	0.1557617
[5,]	-0.9062500	-1.220703	-0.7265625	0.01318359	1.9404297	-0.3320312	0.1538086
[6,]	-0.9062500	-1.220703	-0.7265625	0.01220703	1.9277344	-0.3325195	0.1542969
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[3,]	-0.08789062	-0.6777344	-0.06542969	-0.30224609	-0.35839844	-0.3129883	
[4,]	-0.09765625	-0.6689453	-0.06640625	-0.09033203	-0.33789062	-0.3154297	
[5,]	-0.10058594	-0.6655273	-0.06445312	-0.09375000	-0.33056641	-0.3154297	
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[3,]	-0.04052734	0.20361328	-0.8540039	0.4116211	-1.08105469	-0.3154297	
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[5,]	-0.27783203	-0.4614258	-0.3808594	-0.06396484	-1.048828	-1.942871	
[6,]	-0.27636719	-0.4604492	-0.3803711	-0.06445312	-1.056152	-1.943359	
[7,]	-0.27343750	-0.4589844	-0.3813477	-0.06445312	-1.063965	-1.944336	
[8,]	-0.27343750	-0.4589844	-0.3828125	-0.06494141	-1.071289	-1.945801	
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[2,]	-2.063965	0.02636719	-0.6762695	0.06250000	0.2187500	-0.7573242	-1.331055
[3,]	-1.841797	0.17675781	-0.7368164	0.07958984	0.4086914	-0.7592773	-1.414062
[4,]	-1.797363	0.17041016	-0.7338867	0.08984375	0.3979492	-0.7519531	-1.473145
[5,]	-1.823730	0.16845703	-0.7329102	0.09277344	0.3940430	-0.7519531	-1.460449
[6,]	-1.824707	0.16992188	-0.7329102	0.09326172	0.3950195	-0.7524414	-1.458008
[7,]	-1.826172	0.16992188	-0.7324219	0.09423828	0.3950195	-0.7524414	-1.457031
[8,]	-1.828125	0.16992188	-0.7333984	0.09326172	0.3940430	-0.7534180	-1.455566
[9,]	-1.829102	0.16992188	-0.7329102	0.09423828	0.3945312	-0.7539062	-1.454102
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[3,]	1.3715820	-1.837402	-0.2836914	-0.06054688	-1.0273438	-1.5849609	
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[2,]	-1.166016	-1.780762	-0.5297852	-1.3945312	-0.06738281	-1.619141	-1.762207
[3,]	-1.270508	-1.818848	-0.5166016	-1.4204102	0.16015625	-1.655762	-1.758301
[4,]	-1.240234	-1.817383	-0.5170898	-1.4233398	0.13671875	-1.622559	-1.756836
[5,]	-1.258789	-1.812988	-0.5185547	-1.4174805	0.12744141	-1.632812	-1.759277
[6,]	-1.262207	-1.811035	-0.5175781	-1.4155273	0.12451172	-1.634277	-1.759277

[7,]	-1.265137	-1.809570	-0.5185547	-1.4135742	0.12158203	-1.635742	-1.759277
[8,]	-1.268555	-1.808105	-0.5190430	-1.4135742	0.11718750	-1.638184	-1.760254
[9,]	-1.271484	-1.806641	-0.5190430	-1.4125977	0.11474609	-1.640625	-1.760254
[10,]	-1.274902	-1.805664	-0.5195312	-1.4116211	0.11083984	-1.642578	-1.760742
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[5,]	-0.5566406	-0.1645508	0.10693359	-0.4721680	-0.2246094	4.059082	
[6,]	-0.5546875	-0.1635742	0.10253906	-0.4716797	-0.2280273	3.917480	
[7,]	-0.5537109	-0.1630859	0.09960938	-0.4711914	-0.2314453	3.795898	
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[9,]	-0.5522461	-0.1640625	0.09179688	-0.4707031	-0.2382812	3.596191	
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[3,]	-1.092773	-0.7788086	-0.6962891	-0.4047852	-0.7553711	0.03027344	
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[5,]	-1.086426	-0.8081055	-0.4921875	-0.3930664	-0.8842773	0.02587891	
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[7,]	-1.091797	-0.8105469	-0.5078125	-0.3930664	-0.8823242	0.02587891	
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[9,]	-1.097168	-0.8139648	-0.5239258	-0.3940430	-0.8818359	0.02490234	
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[3,]	-0.3344727	-0.7514648	-0.9409180	-1.529785	0.18017578	-1.218262	
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[5,]	-0.3320312	-0.7446289	-0.8745117	-1.584473	0.17480469	-1.056152	
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[3,]	-0.3232422	0.09326172	-0.3217773	-0.7138672	-0.29638672	0.20507812	
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[3,]	-0.3139648	-0.2802734	-0.3325195	-0.1318359	-0.4804688	-0.09472656
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[2,]	-0.7788086	-0.8266602	0.17333984	-1.550293	-1.275879	-0.7250977	
[3,]	-0.8769531	-0.8803711	-0.06396484	-1.481934	-1.217773	-1.1499023	
[4,]	-0.6113281	-0.8598633	0.65917969	-1.481445	-1.231445	-1.2333984	
[5,]	-0.6284180	-0.8525391	0.61865234	-1.488281	-1.233887	-1.2641602	
[6,]	-0.6323242	-0.8505859	0.60498047	-1.489258	-1.234375	-1.2626953	
[7,]	-0.6376953	-0.8491211	0.59033203	-1.489746	-1.234863	-1.2617188	
[8,]	-0.6425781	-0.8476562	0.57666016	-1.491211	-1.236816	-1.2622070	
[9,]	-0.6469727	-0.8461914	0.56396484	-1.492188	-1.237793	-1.2612305	
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[2,]	0.4521484	0.018066406	-0.6035156	-0.4907227	-0.6572266	-0.7226562	
[3,]	0.4824219	0.007812500	-0.6181641	-0.4868164	-0.6611328	-0.7226562	
[4,]	0.4975586	0.006835938	-0.6250000	-0.4824219	-0.6596680	-0.7221680	
[5,]	0.1718750	0.005859375	-0.6235352	-0.4809570	-0.6586914	-0.7211914	
[6,]	0.1733398	0.006347656	-0.6230469	-0.4790039	-0.6586914	-0.7202148	
[7,]	0.1748047	0.006347656	-0.6230469	-0.4785156	-0.6582031	-0.7202148	
[8,]	0.1762695	0.005859375	-0.6240234	-0.4780273	-0.6586914	-0.7211914	
[9,]	0.1782227	0.006347656	-0.6230469	-0.4770508	-0.6586914	-0.7207031	
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[5,]	-1.0029297	0.24267578	-0.08251953	-0.7075195	-0.7568359	-1.187012	
[6,]	-1.0043945	0.22998047	-0.08593750	-0.7065430	-0.7607422	-1.189941	
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[3,]	-0.06005859	-0.5517578	-0.3037109	-0.4663086	-0.3364258	-0.2353516	
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[6,]	-0.06005859	-0.5454102	-0.3076172	-0.4707031	-0.3349609	-0.2421875	
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[2,]	-1.307617	-1.479980	-1.586426	-0.2822266	-0.7709961	-0.6328125	0.4140625
[3,]	-1.290039	-1.471191	-1.575684	-0.2773438	-0.7646484	-0.6704102	0.3403320
[4,]	-1.294434	-1.442383	-1.564941	-0.2744141	-0.7680664	-0.4311523	0.3105469
[5,]	-1.308594	-1.451172	-1.568848	-0.2719727	-0.7690430	-0.4394531	0.3017578
[6,]	-1.310059	-1.452637	-1.570801	-0.2724609	-0.7690430	-0.4404297	0.3002930
[7,]	-1.311523	-1.454590	-1.571777	-0.2724609	-0.7685547	-0.4409180	0.2998047
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[9,]	-1.315918	-1.458008	-1.574707	-0.2744141	-0.7685547	-0.4433594	0.2963867
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[3,]	-0.17138672	-1.302246	3.442383	-0.1333008	-0.2934570	-1.0522461	-1.246094
[4,]	0.13476562	-1.328613	3.479492	-0.1420898	-0.2866211	-1.1010742	-1.250488
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[6,]	-0.4824219	-0.6816406	-1.214355	-0.6791992	-0.5712891	-0.5014648	
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[9,]	-0.4843750	-0.6801758	-1.213379	-0.6865234	-0.5751953	-0.5024414	

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[3,]	-0.6464844	1.1762695	-1.116699	-0.8408203	-0.7705078	-0.05371094
[4,]	-0.6420898	1.1401367	-1.113770	-0.8315430	-0.7250977	-0.05419922
[5,]	-0.6401367	1.1274414	-1.111816	-0.8315430	-0.7275391	-0.05517578
[6,]	-0.6396484	1.1250000	-1.110840	-0.8315430	-0.7265625	-0.05468750
[7,]	-0.6391602	1.1210938	-1.110352	-0.8325195	-0.7275391	-0.05468750
[8,]	-0.6401367	1.1171875	-1.110840	-0.8330078	-0.7280273	-0.05517578
[9,]	-0.6391602	1.1132812	-1.109863	-0.8325195	-0.7285156	-0.05468750
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[3,]	-0.2656250	0.2192383	-0.05615234	-0.04052734	0.4853516	-1.504395
[4,]	-0.2548828	0.2124023	-0.06542969	-0.04150391	0.4741211	-1.485840
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[7,]	-0.2500000	0.2094727	-0.07080078	-0.04052734	0.4663086	-1.495605
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[3,]	-0.06542969	-0.3359375	-1.0712891	0.6020508	-1.267090	0.8569335938
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[5,]	-0.06445312	-0.3359375	-1.0219727	0.8017578	-1.298828	0.9311523438
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[5,]	-0.5502930	-1.309082	-0.1435547	-0.4033203	-0.6601562	-1.452148
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[9,]	-0.5546875	-1.309570	-0.1459961	-0.4062500	-0.6650391	-1.450195
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[5,]	-0.1342773	0.9985352	-0.1342773	-0.3198242	-0.4619141	-0.3740234
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[3,]	-0.5107422	-0.28369141	-0.1699219	0.048828125	-0.2348633	0.3256836
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[5,]	-0.5102539	-0.05810547	-0.1645508	0.044921875	-0.2221680	0.3403320
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[8,]	-1.44335938	-0.0009765625	-0.6850586	1.146484	-0.6445312	-0.6440430	
[9,]	-1.44384766	-0.0004882812	-0.6835938	1.143555	-0.6445312	-0.6445312	
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[3,]	-0.6459961	-0.7016602	-0.7612305	-0.04736328	0.0034179688	0.1069336	
[4,]	-0.6455078	-0.6938477	-0.7866211	-0.04931641	0.0009765625	0.2246094	
[5,]	-0.6474609	-0.6904297	-0.7958984	-0.04882812	0.0000000000	0.2231445	
[6,]	-0.6474609	-0.6899414	-0.7988281	-0.04785156	0.0009765625	0.2221680	
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[3,]	-0.3193359	0.27001953	-0.6567383	-0.3813477	-0.5209961	0.8549805	
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[5,]	-0.2944336	0.30273438	-0.6586914	-0.3637695	-0.4804688	0.7958984	
[6,]	-0.2929688	0.30468750	-0.6586914	-0.3623047	-0.4785156	0.7890625	
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[7,]	-0.1054688	-0.04785156	-0.3999023	-0.6147461	-0.6386719	-1.388672
[8,]	-0.1044922	-0.04833984	-0.4018555	-0.6157227	-0.6396484	-1.385254
[9,]	-0.1030273	-0.04785156	-0.4028320	-0.6152344	-0.6391602	-1.381348
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[2,]	-1.1972656	-0.3144531	-0.1699219	-0.7436523	1.0126953	-1.239746
[3,]	-1.2822266	-0.5493164	-0.2099609	-0.7597656	0.9394531	-1.230469
[4,]	-1.2763672	-0.5356445	-0.2270508	-0.7480469	0.7563477	-1.221191
[5,]	-1.2871094	-0.5307617	-0.2255859	-0.7431641	0.7739258	-1.235840
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[8,]	-1.2949219	-0.5288086	-0.2270508	-0.7387695	0.7724609	-1.233887
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[3,]	0.0029296875	-0.6469727	-0.7324219	0.09375000	-0.2924805	-0.8369141
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[3,]	-0.4174805	-0.5366211	-0.5151367	0.5063477	-0.2744141	-0.35498047
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[3,]	-0.3515625	-0.3613281	-0.8872070	-0.07714844	-0.11083984	-0.3178711
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[6,]	-0.3408203	-0.3437500	-0.7851562	-0.48144531	-0.09912109	-0.3144531
[7,]	-0.3403320	-0.3437500	-0.7841797	-0.48193359	-0.09863281	-0.3139648
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[2,]	-0.3417969	-0.7353516	-0.6948242	-0.06103516	-0.8701172	0.6425781
[3,]	-0.3305664	-0.6801758	-0.6855469	-0.06494141	-0.8696289	0.6054688
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[5,]	-0.3203125	-0.6420898	-0.7094727	-0.06445312	-0.8833008	0.4877930
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[7,]	-0.3198242	-0.6430664	-0.7089844	-0.06445312	-0.8828125	0.4799805
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[2,]	-0.3388672	0.07177734	-0.04199219	-0.2939453	-1.096680	-0.01123047
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[2,]	-0.04541016	-0.4204102	0.05468750	-0.05468750	-0.2836914	-0.6533203
[3,]	-0.02636719	-0.4096680	0.12402344	-0.06054688	-0.2978516	-0.6674805
[4,]	-0.18994141	-0.4604492	0.11816406	-0.06005859	-0.3007812	-0.6684570
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[2,]	-0.6582031	-0.996582	0.6171875	-0.8408203	-0.3339844	-0.3427734
[3,]	-0.6611328	-1.001465	0.3754883	-0.8500977	-0.2998047	-0.4003906
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[3,]	-0.5756836	-0.15087891	-0.6723633	0.21875000	-0.3369141	-0.2207031
[4,]	-0.5708008	-0.15966797	-0.6718750	0.28076172	-0.3359375	-0.2172852
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[3,]	-0.3481445	-0.7719727	-0.9370117	-0.8979492	-1.356445	-1.539551
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[5,]	-0.4013672	0.019531250	-0.3461914	-1.210938	-1.393555	-0.3198242
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[7,]	-0.4008789	0.021972656	-0.3457031	-1.212402	-1.392578	-0.3198242
[8,]	-0.4018555	0.021972656	-0.3466797	-1.214355	-1.393555	-0.3203125
[9,]	-0.4018555	0.023925781	-0.3466797	-1.214844	-1.393066	-0.3203125
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[2,]	-0.5703125	-0.6850586	-0.3178711	-0.7949219	0.7958984	-0.8144531
[3,]	-0.3974609	-0.6757812	-0.3046875	-0.8081055	0.8486328	-0.8681641
[4,]	-0.2475586	-0.6694336	-0.2968750	-0.7993164	1.0708008	-0.8413086
[5,]	-0.2636719	-0.6674805	-0.2934570	-0.8227539	1.0449219	-0.8305664
[6,]	-0.2666016	-0.6669922	-0.2924805	-0.8227539	1.0366211	-0.8295898
[7,]	-0.2690430	-0.6655273	-0.2919922	-0.8212891	1.0268555	-0.8291016
[8,]	-0.2719727	-0.6655273	-0.2924805	-0.8212891	1.0185547	-0.8286133
[9,]	-0.2739258	-0.6645508	-0.2919922	-0.8203125	1.0107422	-0.8276367
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[2,]	-1.575195	-1.282715	0.03271484	-0.2363281	0.003906250	-0.04199219
[3,]	-1.602539	-1.315430	0.09130859	-0.3188477	-0.003417969	-0.04736328
[4,]	-1.594238	-1.317383	0.07714844	-0.3115234	-0.005859375	-0.04931641
[5,]	-1.592773	-1.331055	0.07128906	-0.3081055	-0.004882812	-0.04833984
[6,]	-1.591797	-1.330078	0.07128906	-0.3081055	-0.005371094	-0.04833984
[7,]	-1.591309	-1.329590	0.07080078	-0.3076172	-0.006347656	-0.04833984
[8,]	-1.591797	-1.330078	0.06835938	-0.3081055	-0.007324219	-0.04882812
[9,]	-1.591309	-1.329102	0.06835938	-0.3076172	-0.007324219	-0.04931641
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[3,]	-0.2885742	-1.606445	-1.521973	-0.4204102	-0.3403320	-0.2788086
[4,]	-0.2919922	-1.577637	-1.415527	-0.4267578	-0.3403320	-0.2885742
[5,]	-0.2924805	-1.564941	-1.399414	-0.4287109	-0.3398438	-0.2949219
[6,]	-0.2919922	-1.562012	-1.405273	-0.4282227	-0.3398438	-0.2958984
[7,]	-0.2924805	-1.560059	-1.410156	-0.4287109	-0.3388672	-0.2973633
[8,]	-0.2939453	-1.559082	-1.416504	-0.4287109	-0.3393555	-0.2993164
[9,]	-0.2924805	-1.556641	-1.421387	-0.4296875	-0.3393555	-0.3007812
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[2,]	-0.3413086	-0.2929688	-0.3706055	-0.1464844	-0.6733398	-0.9951172

[3,]	-0.3408203	-0.3627930	-0.4335938	-0.1416016	-0.7319336	-1.2104492
[4,]	-0.3393555	-0.3554688	-0.4184570	-0.1362305	-0.8745117	-1.2373047
[5,]	-0.3398438	-0.4287109	-0.4121094	-0.1342773	-0.8457031	-1.2197266
[6,]	-0.3393555	-0.4287109	-0.4116211	-0.1337891	-0.8427734	-1.2158203
[7,]	-0.3388672	-0.4282227	-0.4111328	-0.1333008	-0.8393555	-1.2133789
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[9,]	-0.3393555	-0.4287109	-0.4111328	-0.1323242	-0.8354492	-1.2070312
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[2,]	-1.306641	-0.4150391	-0.5146484	-0.2153320	-0.2016602	-1.0644531
[3,]	-1.381348	-0.2539062	-0.5151367	-0.3676758	-0.1977539	-1.0825195
[4,]	-1.380859	-0.1113281	-0.5126953	-0.3364258	-0.1928711	-1.1044922
[5,]	-1.377930	-0.1318359	-0.5107422	-0.3256836	-0.1909180	-1.1040039
[6,]	-1.376953	-0.1367188	-0.5097656	-0.3247070	-0.1904297	-1.1035156
[7,]	-1.376465	-0.1420898	-0.5092773	-0.3237305	-0.1894531	-1.1030273
[8,]	-1.376465	-0.1489258	-0.5102539	-0.3242188	-0.1899414	-1.1030273
[9,]	-1.375977	-0.1538086	-0.5097656	-0.3237305	-0.1894531	-1.1025391
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[2,]	-0.3857422	-0.8291016	-0.26025391	-0.3334961	-0.3339844	-0.2480469
[3,]	-0.3535156	-0.8339844	-0.16210938	-0.3325195	-0.3325195	-0.2421875
[4,]	-0.3642578	-0.8354492	-0.06933594	-0.3291016	-0.3286133	-0.2377930
[5,]	-0.3666992	-0.8349609	-0.07421875	-0.3295898	-0.3315430	-0.2363281
[6,]	-0.3666992	-0.8339844	-0.07714844	-0.3291016	-0.3310547	-0.2358398
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[8,]	-0.3681641	-0.8349609	-0.08251953	-0.3295898	-0.3300781	-0.2353516
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[2,]	-0.16210938	-0.5141602	-0.3432617	-0.6801758	-1.1025391	-0.8100586
[3,]	-0.13720703	-0.5063477	-0.3476562	-0.7436523	-1.0795898	-0.8134766
[4,]	-0.12207031	-0.5068359	-0.3481445	-0.6318359	-1.0942383	-0.9697266
[5,]	-0.11718750	-0.5078125	-0.3486328	-0.6508789	-1.0903320	-0.9619141
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[7,]	-0.11572266	-0.5087891	-0.3476562	-0.6591797	-1.0893555	-0.9589844
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[2,]	0.4926758	-0.3188477	0.4101562	-1.658203	-0.3056641	-0.03320312
[3,]	0.4604492	-0.4785156	0.1250000	-1.652344	-0.4653320	0.01757812
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[8,]	0.4418945	-0.4418945	-0.2504883	-1.639160	-0.4389648	0.01367188
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[3,]	-0.6474609	0.7895508	-0.3188477	1.0522461	-0.1972656	-0.05371094
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[7,]	-0.6308594	0.7626953	-0.3173828	1.0825195	-0.1899414	-0.05468750
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[9,]	-0.6289062	0.7592773	-0.3183594	1.0781250	-0.1904297	-0.05517578
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[2,]	-0.3393555	-0.3413086	-1.0390625	-0.7377930	-1.0830078	-1.369141
[3,]	-0.3461914	-0.3422852	-1.1171875	-0.7690430	-1.0712891	-1.358887
[4,]	-0.3471680	-0.3408203	-1.1777344	-0.7812500	-1.2060547	-1.362793
[5,]	-0.3461914	-0.3408203	-1.1630859	-0.7250977	-1.2041016	-1.364258
[6,]	-0.3457031	-0.3393555	-1.1582031	-0.7241211	-1.2036133	-1.363281
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[9,]	-0.3471680	-0.3393555	-1.1455078	-0.7246094	-1.2026367	-1.363770
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[2,]	-0.2416992	-1.893066	-0.6865234	-0.7758789	-0.8359375	-0.9799805
[3,]	-0.2373047	-1.895996	-0.7060547	-0.8120117	-0.8706055	-0.9785156
[4,]	-0.2324219	-1.898926	-0.7636719	-0.8095703	-0.7285156	-1.0029297
[5,]	-0.2314453	-1.898926	-0.7553711	-0.8090820	-0.7343750	-0.9985352
[6,]	-0.2309570	-1.898438	-0.7543945	-0.8085938	-0.7363281	-0.9960938
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[2,]	-0.2412109	-0.3315430	-0.4272461	-0.2983398	-0.3427734	-1.497070
[3,]	-0.5727539	-0.3247070	-0.2739258	-0.3090820	-0.2812500	-1.489746
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[9,]	-0.5532227	-0.3237305	-0.3154297	-0.3081055	-0.2861328	-1.427734
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[4,]	-0.3403320	-1.112305	-0.5849609375	-0.6464844	-0.3266602	0.1557617
[5,]	-0.3461914	-1.128418	-0.5625000000	-0.6455078	-0.3295898	0.1538086
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[3,]	-0.3955078	-1.192871	-1.964844	-1.262695	1.205078	0.2783203
[4,]	-0.3857422	-1.196289	-1.946289	-1.216797	1.221680	0.2719727
[5,]	-0.3798828	-1.194336	-1.942871	-1.225586	1.228516	0.2690430
[6,]	-0.3784180	-1.193359	-1.942383	-1.226562	1.226074	0.2675781
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[9,]	-0.3759766	-1.192871	-1.943359	-1.230469	1.217285	0.2612305
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[3,]	-0.3955078	-1.192871	-1.964844	-1.262695	1.205078	0.2783203
[4,]	-0.3857422	-1.196289	-1.946289	-1.216797	1.221680	0.2719727
[5,]	-0.3798828	-1.194336	-1.942871	-1.225586	1.228516	0.2690430
[6,]	-0.3784180	-1.193359	-1.942383	-1.226562	1.226074	0.2675781
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[9,]	-0.3759766	-1.192871	-1.943359	-1.230469	1.217285	0.2612305
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[3,]	-0.2421875	0.048828125	-1.102051	-0.9741211	-0.3535156	0.6201172
[4,]	-0.2480469	0.045898438	-1.090332	-1.0019531	-0.3647461	0.6586914
[5,]	-0.2495117	0.044433594	-1.084961	-0.9877930	-0.3666992	0.6723633
[6,]	-0.2490234	0.045410156	-1.082520	-0.9843750	-0.3676758	0.6718750
[7,]	-0.2500000	0.044921875	-1.082031	-0.9799805	-0.3681641	0.6708984
[8,]	-0.2509766	0.043945312	-1.081543	-0.9770508	-0.3701172	0.6689453
[9,]	-0.2519531	0.044433594	-1.079590	-0.9736328	-0.3706055	0.6679688
[10,]	-0.2524414	0.043457031	-1.078125	-0.9702148	-0.3715820	0.6669922

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[1,]	0.2260742	0.05957031	-1.383301	1.4023438	-0.3476562	-0.7099609	-0.7216797
[2,]	0.3076172	0.02636719	-1.468262	0.6420898	-0.6669922	-0.6840820	-0.7841797
[3,]	0.1088867	0.01513672	-1.451660	0.6118164	-0.9038086	-0.7548828	-1.0957031
[4,]	0.1191406	0.01220703	-1.433594	0.2651367	-0.9389648	-0.7563477	-1.0844727
[5,]	0.1230469	0.01318359	-1.437500	0.2885742	-0.9277344	-0.7553711	-1.0800781
[6,]	0.1240234	0.01269531	-1.438477	0.2958984	-0.9218750	-0.7548828	-1.0786133
[7,]	0.1245117	0.01269531	-1.439453	0.3022461	-0.9169922	-0.7543945	-1.0771484
[8,]	0.1240234	0.01269531	-1.441406	0.3081055	-0.9130859	-0.7548828	-1.0766602
[9,]	0.1250000	0.01269531	-1.442383	0.3134766	-0.9086914	-0.7543945	-1.0761719
[10,]	0.1250000	0.01171875	-1.443359	0.3183594	-0.9042969	-0.7543945	-1.0756836
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[2,]	-0.03369141	-0.2412109	-0.4643555	0.1416016	-0.05468750	0.2617188	
[3,]	-0.14501953	-0.3193359	-0.3325195	0.1235352	-0.06054688	0.2382812	
[4,]	-0.18945312	-0.3017578	-0.3417969	0.1201172	-0.05957031	0.2314453	
[5,]	-0.20263672	-0.3125000	-0.3408203	0.1181641	-0.06054688	0.2294922	
[6,]	-0.20703125	-0.3105469	-0.3417969	0.1176758	-0.05957031	0.2285156	
[7,]	-0.21142578	-0.3090820	-0.3432617	0.1171875	-0.06005859	0.2275391	
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[9,]	-0.22070312	-0.3066406	-0.3461914	0.1157227	-0.06054688	0.2250977	
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[2,]	-0.4438477	-0.5014648	-0.3090820	1.393555	-0.3056641	-0.4877930	
[3,]	-0.4946289	-0.5141602	-0.3276367	1.294922	-0.3217773	-0.4785156	
[4,]	-0.4838867	-0.4711914	-0.3256836	1.076660	-0.3208008	-0.4746094	
[5,]	-0.4814453	-0.3920898	-0.3251953	1.096680	-0.3193359	-0.4731445	
[6,]	-0.4809570	-0.3935547	-0.3247070	1.101074	-0.3193359	-0.4721680	
[7,]	-0.4814453	-0.3950195	-0.3237305	1.104492	-0.3193359	-0.4716797	
[8,]	-0.4824219	-0.3964844	-0.3247070	1.105957	-0.3198242	-0.4721680	
[9,]	-0.4819336	-0.3974609	-0.3237305	1.108398	-0.3193359	-0.4711914	
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[2,]	-0.32275391	-0.1318359	0.3706055	-0.7348633	-0.4760742	-0.6547852	
[3,]	-0.04980469	-0.2348633	0.3427734	-0.7148438	-0.4907227	-0.5922852	
[4,]	-0.06445312	-0.2265625	0.3359375	-0.7036133	-0.4941406	-0.6010742	
[5,]	-0.06982422	-0.2221680	0.3417969	-0.6992188	-0.4960938	-0.6015625	
[6,]	-0.06884766	-0.2236328	0.3398438	-0.6982422	-0.4970703	-0.6020508	
[7,]	-0.06738281	-0.2236328	0.3374023	-0.6982422	-0.4965820	-0.6030273	
[8,]	-0.06640625	-0.2246094	0.3339844	-0.6987305	-0.4975586	-0.6049805	
[9,]	-0.06542969	-0.2255859	0.3310547	-0.6987305	-0.4975586	-0.6049805	

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[2,]	-0.4208984	0.10791016	-0.5927734	-0.6943359	-0.7690430	-0.4379883	
[3,]	-0.4360352	0.05468750	-0.6049805	-0.7216797	-0.7690430	-0.4277344	
[4,]	-0.4433594	0.03613281	-0.6064453	-0.7290039	-0.7675781	-0.4199219	
[5,]	-0.4448242	0.02978516	-0.6069336	-0.7319336	-0.7514648	-0.4208984	
[6,]	-0.4438477	0.02685547	-0.6074219	-0.7338867	-0.7519531	-0.4184570	
[7,]	-0.4443359	0.02441406	-0.6069336	-0.7348633	-0.7519531	-0.4174805	
[8,]	-0.4458008	0.02099609	-0.6079102	-0.7373047	-0.7529297	-0.4165039	
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[4,]	-0.4267578	-0.6689453	-0.3266602	0.26660156	0.5649414	-0.4277344	
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[2,]	0.2397461	-0.2714844	2.053223	-0.7441406	0.4907227	-0.12304688	-0.3144531
[3,]	0.3203125	-0.6367188	1.616699	-0.7646484	0.4594727	-0.07324219	-0.3242188
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[7,]	0.3076172	-0.6362305	1.540527	-0.7612305	0.4448242	-0.08935547	-0.3222656
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[9,]	0.3041992	-0.6425781	1.503418	-0.7612305	0.4418945	-0.09521484	-0.3232422
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[1,]	-0.7026367	0.8618164	-0.5351562	-0.4833984	0.6704102	0.6025391	
[2,]	-0.9047852	1.0712891	-0.4970703	-0.4443359	-0.3935547	0.1762695	
[3,]	-0.8222656	1.1264648	-0.4780273	-0.3740234	-0.3447266	0.2050781	
[4,]	-0.7456055	1.1513672	-0.4257812	-0.4633789	-0.3212891	0.2202148	
[5,]	-0.7382812	1.1616211	-0.4125977	-0.4575195	-0.3129883	0.2255859	
[6,]	-0.7402344	1.1591797	-0.4140625	-0.4580078	-0.3125000	0.2246094	
[7,]	-0.7421875	1.1562500	-0.4155273	-0.4594727	-0.3125000	0.2246094	
[8,]	-0.7446289	1.1533203	-0.4174805	-0.4624023	-0.3134766	0.2231445	

[9,]	-0.7465820	1.1508789	-0.4184570	-0.4638672	-0.3129883	0.2226562	
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[2,]	-0.9125977	1.268555	-0.4877930	1.445312	-0.6840820	-0.2641602	-0.4765625
[3,]	-0.9208984	1.005859	-0.6088867	1.257324	-0.7329102	-0.3417969	-0.4692383
[4,]	-0.9843750	1.034668	-0.6040039	1.296875	-0.7255859	-0.3349609	-0.4624023
[5,]	-0.9824219	1.023438	-0.6035156	1.311523	-0.7246094	-0.3427734	-0.4628906
[6,]	-0.9814453	1.024902	-0.6035156	1.311523	-0.7231445	-0.3403320	-0.4619141
[7,]	-0.9814453	1.024902	-0.6020508	1.311523	-0.7216797	-0.3393555	-0.4619141
[8,]	-0.9804688	1.025391	-0.6020508	1.310059	-0.7216797	-0.3378906	-0.4614258
[9,]	-0.9794922	1.025391	-0.6020508	1.309082	-0.7211914	-0.3364258	-0.4609375
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[2,]	-0.1850586	-0.3393555	-0.3256836	-0.6650391	-0.8608398	-0.3515625	
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[5,]	-0.1162109	-0.3178711	-0.1748047	-0.6396484	-0.9350586	-0.4594727	
[6,]	-0.1176758	-0.3173828	-0.1762695	-0.6386719	-0.9340820	-0.4580078	
[7,]	-0.1196289	-0.3188477	-0.1777344	-0.6396484	-0.9321289	-0.4560547	
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[9,]	-0.1225586	-0.3193359	-0.1806641	-0.6401367	-0.9296875	-0.4541016	
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[3,]	-0.11572266	0.2490234375	-0.16552734	-0.2612305	0.029785156	-0.5156250	
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[6,]	-0.15722656	0.0024414062	-0.06738281	-0.2548828	0.027832031	-0.5087891	
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[8,]	-0.3349609	1.22753906	-0.5190430	-0.3339844	-0.8310547	-0.5888672
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[2,]	0.46337891	-0.5249023	-0.3173828	-0.5146484	-0.3496094	-0.3789062
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[7,]	0.64160156	-0.5478516	-0.1831055	-0.5161133	-0.3476562	-0.4941406
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[2,]	0.6269531	-0.3393555	-0.6552734	-0.3056641	0.01171875	-0.2597656
[3,]	0.7285156	-0.3383789	-0.6381836	-0.3740234	0.04052734	-0.6645508
[4,]	0.3208008	-0.3349609	-0.6289062	-0.3564453	0.05517578	-0.7285156
[5,]	0.3349609	-0.3354492	-0.6245117	-0.3500977	0.06054688	-0.7207031
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[2,]	-0.4677734	0.3266602	0.5449219	-0.006835938	-0.5249023	0.1972656
[3,]	-0.4482422	0.5278320	0.7578125	-0.035644531	-0.4775391	0.1801758
[4,]	-0.3930664	0.5141602	0.7426758	-0.047851562	-0.4282227	0.1723633
[5,]	-0.3955078	0.5102539	0.7363281	-0.051757812	-0.4282227	0.1904297
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[8,]	-0.4052734	0.5009766	0.7309570	-0.054687500	-0.4306641	0.1835938
[9,]	-0.4082031	0.4975586	0.7299805	-0.055664062	-0.4301758	0.1816406
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[3,]	1.640625	-0.44482422	0.9916992	1.255371	-0.7187500	0.1206055
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[5,]	1.697754	-0.42822266	1.0366211	1.297852	-0.7226562	0.2509766
[6,]	1.674805	-0.42724609	1.0244141	1.286621	-0.7221680	0.2514648

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[9,]	1.608398	-0.42968750	0.9882812	1.250977	-0.7216797	0.2509766	0.2583008
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[4,]	0.3110352	1.5668945	0.08496094	0.16552734	-0.3500977	-0.4624023	
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[6,]	0.3183594	1.5571289	0.09277344	0.14550781	-0.3486328	-0.4604492	
[7,]	0.3168945	1.5493164	0.09228516	0.14746094	-0.3491211	-0.4589844	
[8,]	0.3144531	1.5400391	0.09179688	0.14892578	-0.3496094	-0.4589844	
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[3,]	-0.1699219	-0.0097656250	-0.4926758	-0.3315430	0.1235352	-0.6586914	
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[3,]	0.2163086	-0.2875977	-0.8159180	-0.6030273	-0.7583008	0.05810547
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[3,]	-0.2617188	-0.6088867	0.20410156	-0.3735352	-0.6469727	-0.4790039
[4,]	-0.2563477	-0.6015625	0.22265625	-0.3666992	-0.6508789	-0.4609375
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[3,]	-0.1791992	0.4624023	-0.3286133	0.1391602	-0.3247070	-0.2822266
[4,]	-0.1850586	0.4399414	-0.3305664	0.1484375	-0.3208008	-0.2666016
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[3,]	-0.3393555	-0.3173828	-0.2382812	-0.2451172	-0.6801758	-0.2275391
[4,]	-0.3393555	-0.3217773	-0.2431641	-0.2578125	-0.6958008	-0.2338867
[5,]	-0.3374023	-0.3212891	-0.2446289	-0.2602539	-0.6987305	-0.2358398
[6,]	-0.3369141	-0.3208008	-0.2446289	-0.2607422	-0.7006836	-0.2358398
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[8,]	-0.3374023	-0.3212891	-0.2451172	-0.2622070	-0.7031250	-0.2373047
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[8,]	-1.3730469	0.2158203	-0.5034180	-0.4003906	-0.8818359	-0.6684570
[9,]	-1.3720703	0.2104492	-0.5024414	-0.3999023	-0.8828125	-0.6674805
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[6,]	-0.1889648	-0.7329102	-0.6240234	-0.8325195	-1.487793	-0.5078125
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[3,]	-0.7895508	-0.9482422	-1.986816	-2.336914	-1.770508	-1.265625
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[5,]	-0.7592773	-0.8920898	-2.079590	-2.330078	-1.806152	-1.275391
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[8,]	-0.7622070	-0.8959961	-2.071777	-2.333008	-1.807129	-1.276367
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[3,]	-0.6064453	-1.986328	-1.428223	0.1083984	0.0781250	0.2656250	0.95019531
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[2,]	-0.7470703	-0.2187500	-0.4321289	-1.024414	-0.2949219	-0.4653320
[3,]	-0.7470703	-0.2329102	-0.4238281	-1.043457	-0.2924805	-0.4443359
[4,]	-0.7460938	-0.2382812	-0.4194336	-1.046875	-0.2880859	-0.4321289
[5,]	-0.7470703	-0.2407227	-0.4169922	-1.046875	-0.2871094	-0.4267578
[6,]	-0.7465820	-0.2407227	-0.4160156	-1.047363	-0.2871094	-0.4277344
[7,]	-0.7465820	-0.2412109	-0.4155273	-1.046875	-0.2871094	-0.4287109
[8,]	-0.7470703	-0.2416992	-0.4160156	-1.048340	-0.2871094	-0.4291992
[9,]	-0.7470703	-0.2426758	-0.4150391	-1.048828	-0.2866211	-0.4301758
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[2,]	-0.1757812	-0.06103516	-0.2001953	-0.7568359	-0.6450195	-0.1318359
[3,]	-0.1699219	-0.06542969	-0.2182617	-0.7485352	-0.7236328	-0.3295898
[4,]	-0.1665039	-0.06640625	-0.2265625	-0.7539062	-0.7563477	-0.4086914
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[7,]	-0.1630859	-0.06445312	-0.2280273	-0.7563477	-0.7666016	-0.4042969
[8,]	-0.1640625	-0.06494141	-0.2285156	-0.7578125	-0.7675781	-0.4047852
[9,]	-0.1640625	-0.06494141	-0.2285156	-0.7578125	-0.7685547	-0.4042969
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[3,]	-0.5507812	-0.06054688	0.14355469	-0.10693359	-0.3320312	0.1611328
[4,]	-0.5288086	-0.06005859	0.13769531	-0.09130859	-0.3291016	0.1542969
[5,]	-0.5200195	-0.06054688	0.13671875	-0.08593750	-0.3291016	0.1542969
[6,]	-0.5205078	-0.06005859	0.13720703	-0.08544922	-0.3286133	0.1538086
[7,]	-0.5209961	-0.06005859	0.13720703	-0.08398438	-0.3281250	0.1533203
[8,]	-0.5219727	-0.06054688	0.13671875	-0.08496094	-0.3291016	0.1518555
[9,]	-0.5219727	-0.06054688	0.13720703	-0.08349609	-0.3286133	0.1523438
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[3,]	0.07763672	-0.1972656	-0.6860352	-0.6694336	-0.013183594	0.1235352
[4,]	0.07324219	-0.1933594	-0.6958008	-0.6665039	-0.017089844	0.1201172

[5,]	0.07226562	-0.1909180	-0.6972656	-0.6650391	-0.015625000	0.1186523
[6,]	0.07128906	-0.1909180	-0.6977539	-0.6645508	-0.015136719	0.1181641
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[3,]	0.048828125	0.2104492	-0.9101562	-0.4946289	-0.8291016	-0.6123047
[4,]	0.045898438	0.1948242	-0.9174805	-0.4916992	-0.8085938	-0.6000977
[5,]	0.044921875	0.1904297	-0.9189453	-0.4897461	-0.8071289	-0.5976562
[6,]	0.043457031	0.1860352	-0.9189453	-0.4887695	-0.8061523	-0.5966797
[7,]	0.043945312	0.1811523	-0.9184570	-0.4877930	-0.8066406	-0.5952148
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[2,]	-0.34228516	-0.01171875	-0.06103516	0.1420898	-0.2016602	-0.2250977
[3,]	-0.33154297	-0.01904297	-0.02636719	0.2163086	-0.2636719	-0.1796875
[4,]	-0.32666016	-0.02050781	-0.02832031	0.2094727	-0.2607422	-0.1850586
[5,]	-0.32324219	-0.02148438	-0.02783203	0.2080078	-0.2592773	-0.1879883
[6,]	-0.32324219	-0.02197266	-0.02783203	0.2065430	-0.2587891	-0.1884766
[7,]	-0.32275391	-0.02246094	-0.02832031	0.2050781	-0.2578125	-0.1889648
[8,]	-0.32324219	-0.02246094	-0.02978516	0.2021484	-0.2578125	-0.1904297
[9,]	-0.32324219	-0.02343750	-0.02978516	0.2006836	-0.2573242	-0.1918945
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[2,]	-0.3339844	0.07275391	-0.4658203	-0.2338867	-0.2016602	0.3154297
[3,]	-0.3369141	0.03515625	-0.4580078	-0.2187500	-0.1977539	0.3076172
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[6,]	-0.3315430	0.01806641	-0.4931641	-0.3291016	-0.1967773	0.2456055
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[3,]	-0.8232422	0.2534180	-1.2807617	-0.8930664	-0.5556641	-1.703125
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[3,]	-1.438477	-1.843750	-0.6005859	-0.3046875	-0.7700195	-0.4990234
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[5,]	-0.150390625	-0.3354492	-0.2934570	-0.2802734	0.17333984	0.02587891
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[3,]	-0.3271484	-1.2480469	-0.3398438	-0.06542969	-0.1420898	-1.067871
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[3,]	0.3872070	-0.2182617	-0.9448242	-0.3110352	-0.2885742	-1.541504
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[8,]	0.4497070	-0.2104492	-1.0009766	-0.3413086	-0.2919922	-1.543945
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[3,]	-0.2607422	-0.09912109	-0.8154297	3.1640625	0.1235352	-0.3076172
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[4,]	-0.3305664	-0.2519531	-0.4824219	-0.1577148	1.1635742	-0.7353516
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[4,]	0.0024414062	-0.6767578	-1.798340	-0.4746094	-0.17968750	-0.5317383
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[3,]	-0.8627930	-0.4936523	-0.09082031	-0.1489258	0.3969727	-0.08105469
[4,]	-0.8349609	-0.5053711	-0.07568359	-0.1406250	0.4106445	-0.10107422
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[10,]	-0.8261719	-0.7451172	-1.243164	-1.365723	-1.085938	-0.7861328	-0.3369141
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[2,]	-0.2280273	-0.3427734	-0.3100586	-0.3496094	-0.8632812	6.3139648	
[3,]	-0.2207031	-0.3481445	-0.3173828	-0.3500977	-0.8720703	6.4785156	
[4,]	-0.2172852	-0.3481445	-0.3217773	-0.3486328	-0.8652344	6.5527344	
[5,]	-0.2167969	-0.3491211	-0.3208008	-0.3491211	-0.8671875	-0.2509766	
[6,]	-0.2158203	-0.3471680	-0.3208008	-0.3486328	-0.8657227	-0.2558594	
[7,]	-0.2148438	-0.3476562	-0.3208008	-0.3486328	-0.8642578	-0.2617188	
[8,]	-0.2148438	-0.3481445	-0.3217773	-0.3486328	-0.8637695	-0.2675781	
[9,]	-0.2148438	-0.3481445	-0.3217773	-0.3491211	-0.8627930	-0.2729492	
[10,]	-0.2153320	-0.3486328	-0.3222656	-0.3491211	-0.8613281	-0.2792969	
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[2,]	6.52197266	2.7666016	2.4980469	-0.2319336	-0.05468750	-0.6303711	
[3,]	6.68847656	2.8588867	2.5917969	-0.2031250	-0.06054688	-0.6333008	
[4,]	6.76269531	2.9023438	2.6352539	-0.1904297	-0.05957031	-0.6323242	
[5,]	0.10888672	-0.4174805	-0.4648438	-0.2407227	-0.06054688	-0.6323242	
[6,]	0.10205078	-0.4208984	-0.4672852	-0.2397461	-0.06005859	-0.6318359	
[7,]	0.09423828	-0.4238281	-0.4707031	-0.2387695	-0.06005859	-0.6313477	
[8,]	0.08593750	-0.4287109	-0.4750977	-0.2382812	-0.06103516	-0.6318359	
[9,]	0.07812500	-0.4321289	-0.4785156	-0.2373047	-0.06054688	-0.6318359	
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[3,]	-0.7519531	-0.4672852	-0.5136719	-0.2968750	-0.7661133	-0.3520508	
[4,]	-0.7524414	-0.4682617	-0.5239258	-0.2934570	-0.7631836	-0.3452148	
[5,]	-0.7514648	-0.4677734	-0.5263672	-0.2929688	-0.7597656	-0.3417969	
[6,]	-0.7514648	-0.4677734	-0.5258789	-0.2929688	-0.7597656	-0.3413086	
[7,]	-0.7509766	-0.4677734	-0.5253906	-0.2929688	-0.7587891	-0.3408203	

[8,]	-0.7519531	-0.4682617	-0.5258789	-0.2934570	-0.7592773	-0.3413086
[9,]	-0.7514648	-0.4682617	-0.5249023	-0.2934570	-0.7583008	-0.3413086
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[2,]	0.2397461	-0.3579102	-0.04980469	2.0190430	-0.2001953	-0.2822266
[3,]	0.2192383	-0.3334961	-0.05371094	0.9570312	-0.1528320	-0.2773438
[4,]	0.2124023	-0.3227539	-0.05419922	0.9814453	-0.1601562	-0.2744141
[5,]	0.2153320	-0.3173828	-0.05517578	0.9892578	-0.1625977	-0.2714844
[6,]	0.2153320	-0.3159180	-0.05468750	0.9882812	-0.1625977	-0.2714844
[7,]	0.2138672	-0.3154297	-0.05468750	0.9877930	-0.1630859	-0.2714844
[8,]	0.2124023	-0.3159180	-0.05517578	0.9858398	-0.1645508	-0.2719727
[9,]	0.2109375	-0.3149414	-0.05517578	0.9843750	-0.1650391	-0.2719727
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[2,]	-0.3867188	0.2397461	-0.2568359	-0.4599609	-0.05468750	-0.07275391
[3,]	-0.3735352	0.2192383	-0.2539062	-0.4858398	-0.06054688	-0.04101562
[4,]	-0.3666992	0.2128906	-0.2519531	-0.5009766	-0.06005859	-0.02490234
[5,]	-0.3632812	0.2094727	-0.2500000	-0.5004883	-0.06054688	-0.02050781
[6,]	-0.3627930	0.2099609	-0.2500000	-0.4995117	-0.06005859	-0.01904297
[7,]	-0.3623047	0.2099609	-0.2490234	-0.5000000	-0.06054688	-0.01806641
[8,]	-0.3632812	0.2089844	-0.2495117	-0.5004883	-0.06103516	-0.01855469
[9,]	-0.3627930	0.2080078	-0.2495117	-0.5004883	-0.06005859	-0.01806641
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[2,]	-0.5366211	0.02636719	-0.6494141	-0.8505859	-1.024414	-0.2280273
[3,]	-0.5712891	0.01464844	-0.6533203	-0.8598633	-1.029297	-0.2202148
[4,]	-0.5654297	0.01220703	-0.6523438	-0.8500977	-1.034668	-0.2172852
[5,]	-0.5634766	0.01318359	-0.6508789	-0.8476562	-1.036621	-0.2148438
[6,]	-0.5625000	0.01220703	-0.6508789	-0.8457031	-1.037109	-0.2148438
[7,]	-0.5615234	0.01269531	-0.6499023	-0.8452148	-1.036621	-0.2158203
[8,]	-0.5615234	0.01220703	-0.6508789	-0.8457031	-1.037598	-0.2163086
[9,]	-0.5605469	0.01171875	-0.6499023	-0.8447266	-1.037598	-0.2158203
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[2,]	0.5112305	-0.8115234	0.1689453125	-0.2338867	0.16894531	-0.2016602
[3,]	0.5444336	-0.8208008	0.0009765625	-0.3935547	0.19042969	-0.1972656
[4,]	0.5615234	-0.8149414	0.0117187500	-0.3852539	0.19970703	-0.1928711
[5,]	0.5678711	-0.8115234	0.0122070312	-0.3837891	0.20361328	-0.1953125
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[7,]	0.5644531	-0.8110352	0.0107421875	-0.3823242	0.20703125	-0.1938477
[8,]	0.5625000	-0.8115234	0.0092773438	-0.3833008	0.20751953	-0.1933594
[9,]	0.5605469	-0.8110352	0.0083007812	-0.3823242	0.20947266	-0.1938477
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[2,]	-0.08544922	0.05517578	-1.117676	-1.263184	-0.2573242	-1.039062
[3,]	-0.06933594	0.04296875	-1.099609	-1.269531	-0.2539062	-1.006836
[4,]	-0.06005859	0.04101562	-1.087402	-1.264648	-0.2519531	-1.016602
[5,]	-0.11425781	0.04101562	-1.082031	-1.264160	-0.2500000	-1.019531
[6,]	-0.11328125	0.04052734	-1.080566	-1.263672	-0.2500000	-1.019531
[7,]	-0.11230469	0.03955078	-1.078125	-1.263184	-0.2500000	-1.020020
[8,]	-0.11328125	0.03906250	-1.076660	-1.263184	-0.2500000	-1.020996
[9,]	-0.11230469	0.03857422	-1.075684	-1.262695	-0.2504883	-1.020996
[10,]	-0.11230469	0.03710938	-1.074219	-1.262695	-0.2504883	-1.021973
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[2,]	-0.3471680	-0.2016602	-0.7714844	-0.4218750	-0.5771484	0.3671875
[3,]	-0.3403320	-0.1972656	-0.7656250	-0.4121094	-0.5668945	0.3022461
[4,]	-0.3403320	-0.1928711	-0.7695312	-0.4335938	-0.5600586	0.2753906
[5,]	-0.3398438	-0.1904297	-0.7700195	-0.4414062	-0.5576172	0.2675781
[6,]	-0.3393555	-0.1909180	-0.7700195	-0.4438477	-0.5571289	0.2656250
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[9,]	-0.3403320	-0.1904297	-0.7719727	-0.4531250	-0.5566406	0.2578125
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[2,]	-1.314453	-0.7895508	-0.8393555	-0.1088867	-0.023925781	-1.148926
[3,]	-1.367188	-0.8017578	-0.9052734	-0.1342773	-0.030761719	-1.147949
[4,]	-1.351074	-0.7949219	-0.8193359	-0.1420898	-0.030761719	-1.140137
[5,]	-1.364746	-0.7993164	-0.8291016	-0.1440430	-0.031250000	-1.141602
[6,]	-1.363770	-0.7978516	-0.8339844	-0.1450195	-0.031250000	-1.141113
[7,]	-1.363281	-0.7963867	-0.8388672	-0.1450195	-0.031250000	-1.141113
[8,]	-1.364258	-0.7958984	-0.8442383	-0.1464844	-0.032226562	-1.141602
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[2,]	-0.5781250	0.6542969	0.01367188	-0.9926758	-1.006348	-0.4819336
[3,]	-0.5668945	0.8359375	0.05126953	-0.9907227	-1.009766	-0.5170898
[4,]	-0.5595703	0.8051758	0.02880859	-0.9697266	-1.010254	-0.5283203
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[6,]	-0.5561523	0.8105469	0.06005859	-0.9604492	-1.009766	-0.5322266	
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[9,]	-0.5566406	0.8081055	0.05419922	-0.9531250	-1.010254	-0.5332031	
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[3,]	-0.4033203	-1.207520	0.09863281	8.7124023	11.9672852	4.8457031	
[4,]	-0.4111328	-1.197754	0.11523438	8.7617188	12.0380859	4.3032227	
[5,]	-0.4140625	-1.200195	0.12060547	0.3413086	0.4677734	-0.1376953	
[6,]	-0.4135742	-1.199707	0.12109375	0.3334961	0.4570312	-0.1435547	
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[5,]	-0.2641602	0.04931641	-0.3242188	0.2290039	0.06884766	-0.2622070	1.240723
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[8,]	-0.2700195	0.02685547	-0.3242188	0.1982422	0.04394531	-0.2792969	1.203125
[9,]	-0.2719727	0.01953125	-0.3242188	0.1894531	0.03613281	-0.2841797	1.190918
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[2,]	-0.04150391	-0.6665039	-0.3178711	-0.07617188	-0.8334961	-0.9936523	
[3,]	-0.07080078	-0.6704102	-0.3222656	-0.10302734	-0.8745117	-1.0004883	
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[5,]	-0.08349609	-0.6674805	-0.3222656	-0.11572266	-0.8603516	-0.9956055
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[8,]	-0.08496094	-0.6669922	-0.3227539	-0.11718750	-0.8583984	-0.9960938
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[2,]	-0.3520508	1.0292969	-0.15673828	-0.3208008	-0.01171875	-0.2338867
[3,]	-0.3291016	0.9829102	-0.03076172	-0.3266602	0.04248047	-0.2485352
[4,]	-0.3154297	0.9633789	0.07031250	-0.3251953	0.14941406	-0.2529297
[5,]	-0.3129883	0.9565430	0.06347656	-0.3247070	0.14746094	-0.2543945
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[7,]	-0.3134766	0.9399414	0.05664062	-0.3247070	0.14648438	-0.2553711
[8,]	-0.3144531	0.9306641	0.05371094	-0.3247070	0.14501953	-0.2563477
[9,]	-0.3139648	0.9223633	0.05078125	-0.3251953	0.14453125	-0.2558594
[10,]	-0.3149414	0.9145508	0.04736328	-0.3256836	0.14257812	-0.2568359
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[1,]	-0.04882812	8.448730469	7.8491211	3.7875977	3.4062500	2.6088867
[2,]	-0.05468750	8.259765625	7.7060547	3.5532227	3.2148438	-0.3222656
[3,]	-0.06103516	8.424804688	7.8706055	3.6513672	3.3095703	-0.2778320
[4,]	-0.05957031	8.496093750	7.9433594	3.6928711	3.3525391	-0.2558594
[5,]	-0.06054688	0.048828125	0.3505859	-0.2573242	-0.3164062	-0.2475586
[6,]	-0.05957031	0.041503906	0.3413086	-0.2622070	-0.3217773	-0.2465820
[7,]	-0.06005859	0.032714844	0.3305664	-0.2680664	-0.3266602	-0.2470703
[8,]	-0.06054688	0.023925781	0.3198242	-0.2739258	-0.3325195	-0.2480469
[9,]	-0.06054688	0.015625000	0.3095703	-0.2792969	-0.3369141	-0.2485352
[10,]	-0.06103516	0.007324219	0.2998047	-0.2851562	-0.3422852	-0.2490234
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[2,]	-0.8852539	-0.7656250	-0.1015625	-0.4956055	-0.0004882812	-0.1406250
[3,]	-0.8852539	-0.7622070	-0.1748047	-0.5009766	-0.0102539062	-0.1650391
[4,]	-0.8818359	-0.7348633	-0.1372070	-0.5249023	-0.0117187500	-0.1708984
[5,]	-0.8793945	-0.7353516	-0.1586914	-0.5351562	-0.0039062500	-0.1748047
[6,]	-0.8784180	-0.7353516	-0.1660156	-0.5366211	-0.0048828125	-0.1762695
[7,]	-0.8769531	-0.7343750	-0.1733398	-0.5390625	-0.0043945312	-0.1762695
[8,]	-0.8769531	-0.7358398	-0.1811523	-0.5410156	-0.0058593750	-0.1782227
[9,]	-0.8759766	-0.7353516	-0.1884766	-0.5434570	-0.0058593750	-0.1782227
[10,]	-0.8759766	-0.7353516	-0.1962891	-0.5454102	-0.0058593750	-0.1796875
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[2,]	0.1743164	-0.13183594	-0.5327148	0.3071289	-0.52636719	0.08837891
[3,]	0.1333008	-0.11279297	-0.5317383	0.1088867	-0.51464844	0.05273438

[4,]	0.1181641	-0.10302734	-0.5317383	0.1191406	-0.50781250	0.04101562
[5,]	0.1123047	-0.09863281	-0.5302734	0.1230469	-0.50585938	0.03515625
[6,]	0.1108398	-0.09814453	-0.5297852	0.1225586	-0.50488281	0.03125000
[7,]	0.1103516	-0.09814453	-0.5297852	0.1210938	-0.50390625	0.02685547
[8,]	0.1083984	-0.09863281	-0.5307617	0.1196289	-0.50439453	0.02294922
[9,]	0.1069336	-0.09765625	-0.5307617	0.1181641	-0.50439453	0.01904297
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[2,]	-0.04980469	0.371093750	-0.3266602	0.02636719	1.3974609	-0.5356445
[3,]	-0.05371094	0.320312500	-0.3281250	-0.21533203	1.4853516	-0.5424805
[4,]	-0.05419922	0.302734375	-0.3266602	-0.19628906	1.4589844	-0.5693359
[5,]	-0.05517578	0.294921875	-0.3261719	-0.19335938	1.4492188	-0.5791016
[6,]	-0.05517578	0.290039062	-0.3256836	-0.19970703	1.4433594	-0.5795898
[7,]	-0.05419922	0.286132812	-0.3256836	-0.20654297	1.4375000	-0.5805664
[8,]	-0.05566406	0.279785156	-0.3261719	-0.21386719	1.4306641	-0.5825195
[9,]	-0.05517578	0.274902344	-0.3256836	-0.21972656	1.4243164	-0.5844727
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[2,]	-0.7661133	-0.5366211	-0.4995117	-0.4990234	-0.06103516	-0.09277344
[3,]	-0.7900391	-0.5717773	-0.5112305	-0.5112305	-0.06494141	-0.03906250
[4,]	-0.7968750	-0.5654297	-0.5083008	-0.5083008	-0.06640625	-0.04882812
[5,]	-0.7988281	-0.5610352	-0.5073242	-0.5073242	-0.06445312	-0.05322266
[6,]	-0.7983398	-0.5600586	-0.5068359	-0.5073242	-0.06445312	-0.05615234
[7,]	-0.7983398	-0.5595703	-0.5068359	-0.5068359	-0.06445312	-0.05957031
[8,]	-0.7988281	-0.5595703	-0.5073242	-0.5078125	-0.06494141	-0.06298828
[9,]	-0.7993164	-0.5590820	-0.5078125	-0.5073242	-0.06445312	-0.06689453
[10,]	-0.7993164	-0.5595703	-0.5083008	-0.5073242	-0.06494141	-0.06982422
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[2,]	-0.2294922	-0.3481445	-0.03320312	-0.3300781	-0.2358398	-0.2739258
[3,]	-0.1362305	-0.3510742	-0.04003906	-0.3354492	-0.2529297	-0.2714844
[4,]	-0.1635742	-0.3476562	-0.04101562	-0.3354492	-0.2583008	-0.2666016
[5,]	-0.1752930	-0.3471680	-0.04003906	-0.3344727	-0.2597656	-0.2666016
[6,]	-0.1801758	-0.3466797	-0.04003906	-0.3349609	-0.2587891	-0.2661133
[7,]	-0.1860352	-0.3461914	-0.04003906	-0.3339844	-0.2583008	-0.2661133
[8,]	-0.1918945	-0.3471680	-0.04052734	-0.3349609	-0.2587891	-0.2670898
[9,]	-0.1972656	-0.3471680	-0.04052734	-0.3354492	-0.2583008	-0.2666016
[10,]	-0.2026367	-0.3471680	-0.04101562	-0.3359375	-0.2587891	-0.2680664
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[2,]	0.2983398	-0.3061523	-0.3173828	-0.2822266	-0.2822266	-0.123535156

[3,]	0.3125000	-0.3071289	-0.2880859	-0.2773438	-0.3134766	-0.009765625
[4,]	0.4135742	-0.3041992	-0.2905273	-0.2744141	-0.3105469	-0.034667969
[5,]	0.3999023	-0.3032227	-0.2910156	-0.2729492	-0.3100586	-0.044921875
[6,]	0.3964844	-0.3027344	-0.2910156	-0.2719727	-0.3095703	-0.050292969
[7,]	0.3930664	-0.3027344	-0.2919922	-0.2709961	-0.3090820	-0.056152344
[8,]	0.3886719	-0.3032227	-0.2919922	-0.2709961	-0.3095703	-0.062011719
[9,]	0.3852539	-0.3032227	-0.2919922	-0.2705078	-0.3085938	-0.067382812
[10,]	0.3808594	-0.3037109	-0.2929688	-0.2700195	-0.3090820	-0.073242188
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[2,]	-0.8110352	-0.5781250	-0.1528320	-0.5009766	-0.2998047	-0.9833984
[3,]	-0.8188477	-0.5654297	-0.1235352	-0.5136719	-0.3046875	-1.0180664
[4,]	-0.7954102	-0.5556641	-0.1083984	-0.5175781	-0.3071289	-1.0302734
[5,]	-0.7871094	-0.5537109	-0.1025391	-0.5180664	-0.3066406	-1.0341797
[6,]	-0.7866211	-0.5532227	-0.1025391	-0.5180664	-0.3066406	-1.0356445
[7,]	-0.7875977	-0.5532227	-0.1040039	-0.5185547	-0.3061523	-1.0371094
[8,]	-0.7885742	-0.5537109	-0.1054688	-0.5190430	-0.3066406	-1.0390625
[9,]	-0.7885742	-0.5532227	-0.1064453	-0.5200195	-0.3061523	-1.0400391
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[2,]	-0.04980469	-0.3984375	-0.4877930	-0.3144531	-0.2646484	0.17041016
[3,]	-0.05371094	-0.2158203	-0.5073242	-0.3164062	-0.3227539	-0.25732422
[4,]	-0.05468750	-0.3032227	-0.5048828	-0.3129883	-0.3208008	-0.24511719
[5,]	-0.05419922	-0.3349609	-0.5039062	-0.3178711	-0.3222656	-0.24023438
[6,]	-0.05419922	-0.3359375	-0.5029297	-0.3168945	-0.3217773	-0.24023438
[7,]	-0.05468750	-0.3378906	-0.5029297	-0.3164062	-0.3217773	-0.23925781
[8,]	-0.05566406	-0.3403320	-0.5039062	-0.3173828	-0.3217773	-0.23925781
[9,]	-0.05566406	-0.3413086	-0.5029297	-0.3168945	-0.3222656	-0.23876953
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[1,]	-0.7988281	-0.8896484	-1.094238	-0.9990234	-0.6220703	-0.3383789
[2,]	-0.7031250	-0.7866211	-1.144531	-0.9868164	-0.6445312	-0.3276367
[3,]	-0.7255859	-0.7470703	-1.138184	-0.9697266	-0.6440430	-0.3247070
[4,]	-0.7114258	-0.7944336	-1.146484	-0.9477539	-0.6430664	-0.3208008
[5,]	-0.7089844	-0.8120117	-1.143066	-0.9516602	-0.6425781	-0.3208008
[6,]	-0.7084961	-0.8139648	-1.142578	-0.9521484	-0.6416016	-0.3203125
[7,]	-0.7075195	-0.8154297	-1.143066	-0.9531250	-0.6411133	-0.3193359
[8,]	-0.7080078	-0.8183594	-1.143066	-0.9536133	-0.6416016	-0.3198242
[9,]	-0.7070312	-0.8208008	-1.142578	-0.9541016	-0.6416016	-0.3193359
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[2,]	-0.3178711	-0.3466797	-0.4506836	0.17431641	-0.7934570	-1.015625
[3,]	-0.3041992	-0.3481445	-0.4433594	0.23339844	-0.8847656	-1.020508
[4,]	-0.2968750	-0.3457031	-0.4355469	0.21679688	-0.8583984	-1.025391
[5,]	-0.2934570	-0.3447266	-0.4340820	0.20996094	-0.8481445	-1.027344
[6,]	-0.2924805	-0.3442383	-0.4331055	0.20703125	-0.8476562	-1.027832
[7,]	-0.2919922	-0.3437500	-0.4331055	0.20410156	-0.8471680	-1.027832
[8,]	-0.2924805	-0.3442383	-0.4331055	0.20068359	-0.8476562	-1.029297
[9,]	-0.2919922	-0.3442383	-0.4326172	0.19873047	-0.8471680	-1.029785
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[2,]	-0.8725586	-0.9238281	-0.6777344	-0.06103516	-0.3623047	-0.8725586
[3,]	-0.8862305	-0.9213867	-0.6982422	-0.06542969	-0.4267578	-0.8833008
[4,]	-0.9038086	-0.9257812	-0.6757812	-0.06640625	-0.4072266	-0.8833008
[5,]	-0.9106445	-0.9257812	-0.6694336	-0.06445312	-0.4033203	-0.8842773
[6,]	-0.9116211	-0.9257812	-0.6684570	-0.06445312	-0.4023438	-0.8842773
[7,]	-0.9135742	-0.9252930	-0.6679688	-0.06445312	-0.4023438	-0.8837891
[8,]	-0.9165039	-0.9262695	-0.6684570	-0.06542969	-0.4028320	-0.8847656
[9,]	-0.9184570	-0.9257812	-0.6684570	-0.06494141	-0.4023438	-0.8847656
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[2,]	-0.005859375	0.4580078	0.04248047	-0.7495117	-0.08105469	-0.03320312
[3,]	-0.012695312	0.4067383	-0.01074219	-0.7910156	-0.14160156	-0.04052734
[4,]	-0.017089844	0.3872070	-0.02929688	-0.8061523	-0.16308594	-0.04101562
[5,]	-0.015625000	0.3798828	-0.03662109	-0.8100586	-0.17138672	-0.04003906
[6,]	-0.015136719	0.3774414	-0.04052734	-0.8134766	-0.17578125	-0.04101562
[7,]	-0.015136719	0.3740234	-0.04589844	-0.8173828	-0.18115234	-0.04052734
[8,]	-0.016601562	0.3706055	-0.05126953	-0.8208008	-0.18652344	-0.04150391
[9,]	-0.016601562	0.3676758	-0.05664062	-0.8242188	-0.19042969	-0.04150391
[10,]	-0.016601562	0.3642578	-0.06103516	-0.8276367	-0.19531250	-0.04199219
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[2,]	-0.023925781	0.20068359	-1.2841797	0.5029297	-0.2568359	-0.3022461
[3,]	-0.030761719	0.09423828	-1.1147461	0.3896484	-0.2539062	-0.3125000
[4,]	-0.030761719	0.12060547	-0.9951172	0.4257812	-0.2524414	-0.3149414
[5,]	-0.031250000	0.13037109	-1.0083008	0.4389648	-0.2500000	-0.3159180
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[10,]	-0.033203125	0.12695312	-1.0507812	0.4248047	-0.2504883	-0.3168945
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[2,]	-1.2158203	-0.8120117	-0.5883789	-0.6000977	0.2968750	-1.0380859
[3,]	-1.2207031	-0.8598633	-0.5781250	-0.6225586	0.2353516	-1.0498047
[4,]	-1.1938477	-0.8281250	-0.5693359	-0.6171875	0.2119141	-1.0625000
[5,]	-1.1835938	-0.8168945	-0.5678711	-0.6142578	0.2031250	-1.0668945
[6,]	-1.1811523	-0.8159180	-0.5668945	-0.6132812	0.1997070	-1.0673828
[7,]	-1.1791992	-0.8154297	-0.5673828	-0.6137695	0.1962891	-1.0678711
[8,]	-1.1772461	-0.8154297	-0.5678711	-0.6142578	0.1923828	-1.0693359
[9,]	-1.1752930	-0.8149414	-0.5673828	-0.6137695	0.1889648	-1.0703125
[10,]	-1.1743164	-0.8144531	-0.5683594	-0.6142578	0.1850586	-1.0722656
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[1,]	-0.03759766	-0.8383789	-0.3129883	-0.23388672	-0.6313477	1.059082
[2,]	-0.04980469	-1.0800781	-0.2871094	-0.21093750	-0.7412109	1.334961
[3,]	-0.05371094	-1.0844727	-0.2983398	-0.16552734	-0.7436523	1.409180
[4,]	-0.05468750	-1.0820312	-0.3022461	-0.07080078	-0.7436523	1.442871
[5,]	-0.05517578	-1.0815430	-0.3022461	-0.07421875	-0.7426758	1.455078
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[7,]	-0.05468750	-1.0805664	-0.3032227	-0.07617188	-0.7421875	1.445312
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[9,]	-0.05517578	-1.0805664	-0.3037109	-0.07910156	-0.7426758	1.435059
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[9,]	-0.3090820	-0.3188477	-0.2651367	-0.26953125	-0.15869141	-1.152832
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[5,]	-0.17236328	-0.3979492	-0.2910156	-1.904297	0.20605469	-1.024414
[6,]	-0.17285156	-0.3974609	-0.2919922	-1.901367	0.20507812	-1.024414
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[8,]	-0.17382812	-0.3974609	-0.2949219	-1.898926	0.20166016	-1.025879
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[3,]	-1.867676	-0.5185547	0.05810547	-0.1293945	-0.3496094	2.8334961
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[9,]	-0.9091797	-0.8247070	-0.4609375	-0.5966797	-0.4702148	-0.2309570
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[3,]	-0.06591797	-0.2285156	1.332520	-0.5957031	-0.2255859	0.8618164
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[8,]	-0.3398438	-0.2143555	-0.1928711	0.2871094	0.14355469	-0.4648438
[9,]	-0.3398438	-0.2133789	-0.1933594	0.2866211	0.14404297	-0.4653320
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[3,]	0.020996094	1.0268555	-0.9189453	1.8530273	-0.3564453	0.3413086
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[7,]	0.034179688	1.0219727	-0.9003906	-0.2841797	-0.3374023	0.3593750
[8,]	0.034179688	1.0156250	-0.8994141	-0.2866211	-0.3378906	0.3574219
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[7,]	0.3408203	0.5668945	-0.3476562	-0.3242188	-0.5239258	-0.8417969
[8,]	0.3403320	0.5659180	-0.3486328	-0.3247070	-0.5258789	-0.8422852
[9,]	0.3408203	0.5654297	-0.3481445	-0.3251953	-0.5278320	-0.8422852
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[4,]	-0.3203125	-1.729004	-0.4980469	-0.3012695	-0.7714844	0.0009765625
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[6,]	-0.3281250	-1.732422	-0.4970703	-0.2993164	-0.7963867	0.0009765625
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[4,]	-1.261230	-0.2416992	-0.2475586	-0.1777344	-1.811523	-0.030761719
[5,]	-1.266602	-0.2397461	-0.2412109	-0.1748047	-1.810059	-0.031738281
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[8,]	-1.272461	-0.2407227	-0.2392578	-0.1772461	-1.810059	-0.031250000
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[7,]	0.04003906	-0.7348633	0.1333008	-1.5932617	-0.14746094	0.09179688
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[7,]	-0.4580078	-0.01513672	-0.2680664	-0.5180664	-0.06298828	-0.7485352	
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[2,]	-0.4931641	-1.212891	-1.3447266	-0.9575195	-1.258301	-1.145020	-1.204102
[3,]	-0.4902344	-1.155273	-1.3256836	-1.0747070	-1.315430	-1.143555	-1.182617
[4,]	-0.4858398	-1.262207	-1.3139648	-1.0693359	-1.310059	-1.136230	-1.194336

[5,]	-0.4853516	-1.255859	-1.3081055	-1.0859375	-1.317871	-1.130859	-1.189941
[6,]	-0.4848633	-1.253418	-1.3056641	-1.0913086	-1.319336	-1.129883	-1.188965
[7,]	-0.4843750	-1.252441	-1.3037109	-1.0966797	-1.320801	-1.129883	-1.187988
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[9,]	-0.4838867	-1.248535	-1.2993164	-1.1074219	-1.323730	-1.128906	-1.187012
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[8,]	-1.2314453	-0.06494141	-0.04150391	-0.9399414	-0.06494141	-0.2778320
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[3,]	4.9145508	1.5996094	1.4091797	-0.3227539	-0.19482422	0.04296875
[4,]	4.9785156	1.6328125	1.4418945	-0.3208008	-0.17138672	0.14990234
[5,]	-0.3256836	-0.6435547	-0.6674805	-0.3208008	-0.20019531	0.15478516
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[5,]	0.6157227	-0.3247070	0.7875977	0.05517578	-0.2592773	0.2104492	-0.3051758
[6,]	0.6176758	-0.3247070	0.7880859	0.05468750	-0.2597656	0.2099609	-0.3046875
[7,]	0.6176758	-0.3242188	0.7880859	0.05419922	-0.2592773	0.2089844	-0.3051758
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[2,]	-0.7080078	-0.05468750	8.5820312	3.5327148	0.7314453	-0.5136719
[3,]	-0.7324219	-0.06005859	8.7275391	3.6079102	0.6918945	-0.5024414
[4,]	-0.7387695	-0.05957031	8.7910156	3.6430664	0.7705078	-0.4941406
[5,]	-0.7416992	-0.06054688	0.3305664	-0.3261719	0.7514648	-0.4916992
[6,]	-0.7412109	-0.05957031	0.3198242	-0.3305664	0.7451172	-0.4912109
[7,]	-0.7416992	-0.06005859	0.3090820	-0.3354492	0.7407227	-0.4912109
[8,]	-0.7431641	-0.06054688	0.2983398	-0.3413086	0.7348633	-0.4912109
[9,]	-0.7431641	-0.06103516	0.2875977	-0.3452148	0.7294922	-0.4907227
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[2,]	-0.04980469	1.3872070	-0.2822266	-0.06103516	-0.3027344	0.3261719
[3,]	0.05761719	1.3427734	-0.2773438	-0.06494141	-0.3115234	0.3017578
[4,]	0.05615234	1.1645508	-0.2744141	-0.06640625	-0.3105469	0.2934570
[5,]	0.05566406	-1.0405273	-0.2778320	-0.06347656	-0.3120117	0.2919922
[6,]	0.05566406	-1.0410156	-0.2773438	-0.06445312	-0.3115234	0.2919922
[7,]	0.05517578	-1.0424805	-0.2773438	-0.06396484	-0.3115234	0.2915039
[8,]	0.05371094	-1.0444336	-0.2783203	-0.06445312	-0.3129883	0.2910156
[9,]	0.05419922	-1.0458984	-0.2778320	-0.06445312	-0.3129883	0.2905273

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[3,]	7.7680664	7.21191406	3.0390625	2.7119141	-0.19482422	-0.3232422
[4,]	7.8339844	7.27880859	3.0727539	2.7485352	-0.21093750	-0.3198242
[5,]	-0.1967773	0.06591797	-0.4311523	-0.4770508	-0.21386719	-0.3193359
[6,]	-0.2031250	0.05810547	-0.4340820	-0.4799805	-0.21484375	-0.3183594
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[8,]	-0.2163086	0.04150391	-0.4423828	-0.4863281	-0.21777344	-0.3188477
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[4,]	-0.3208008	-0.5883789	0.01220703	-0.7592773	-0.2207031	-0.4360352
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[6,]	-0.3193359	-0.5922852	0.01269531	-0.7592773	-0.2231445	-0.4316406
[7,]	-0.3193359	-0.5913086	0.01220703	-0.7592773	-0.2236328	-0.4306641
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[2,]	0.03564453	-0.023437500	-0.5190430	-0.3100586	-0.7309570	-0.2949219
[3,]	0.31542969	-0.030761719	-0.5244141	-0.3173828	-0.7509766	-0.3217773
[4,]	0.24707031	-0.031250000	-0.5239258	-0.3217773	-0.7968750	-0.3188477
[5,]	0.23730469	-0.031738281	-0.5239258	-0.3212891	-0.7924805	-0.3193359
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[9,]	0.20214844	-0.032714844	-0.5239258	-0.3222656	-0.7890625	-0.3183594
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[3,]	-0.45654297	-0.46777344	-0.3979492	-0.7905273	-0.4965820	0.5786133
[4,]	-0.45800781	-0.46679688	-0.4033203	-0.8007812	-0.4926758	0.5678711
[5,]	-0.45947266	-0.46582031	-0.4057617	-0.8017578	-0.4912109	0.5629883
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[7,]	-0.45947266	-0.46533203	-0.4062500	-0.8027344	-0.4916992	0.5522461
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[9,]	-0.46044922	-0.46582031	-0.4077148	-0.8046875	-0.4912109	0.5410156
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[2,]	-0.7714844	-2.151367	-0.8315430	-0.56494141	0.16894531	-0.1464844
[3,]	-0.7846680	-2.150879	-0.8027344	-0.66650391	0.19042969	-0.2285156
[4,]	-0.7846680	-2.150879	-0.7866211	-0.64062500	0.19970703	-0.2231445
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[9,]	-0.7846680	-2.150391	-0.7832031	-0.63281250	-0.05908203	-0.2211914
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[4,]	-0.7221680	0.2651367	-0.06005859	-0.1757812	-0.2666016	-0.8964844
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[3,]	-0.20263672	-0.1420898	-0.1743164	-0.6953125	-0.1621094	0.04052734
[4,]	-0.19433594	-0.1362305	-0.3134766	-0.8852539	-0.1967773	-0.14208984
[5,]	-0.18994141	-0.1342773	-0.3076172	-0.8666992	-0.2080078	-0.13720703
[6,]	-0.19042969	-0.1342773	-0.3076172	-0.8657227	-0.2114258	-0.13720703
[7,]	-0.19091797	-0.1337891	-0.3081055	-0.8652344	-0.2143555	-0.13769531
[8,]	-0.19189453	-0.1347656	-0.3095703	-0.8652344	-0.2187500	-0.13867188
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[3,]	-0.3164062	-0.4248047	-0.42041016	-0.6230469	0.07324219	0.01806641
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[5,]	-0.3120117	-0.4160156	-0.41503906	-0.6772461	0.08056641	0.01708984
[6,]	-0.3115234	-0.4160156	-0.41406250	-0.6845703	0.08105469	0.01757812
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[8,]	-0.3115234	-0.4155273	-0.41455078	-0.6992188	0.08056641	0.01562500
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[3,]	-0.2524414	-0.6303711	-1.035156	-0.2924805	-0.6997070	-0.7441406
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[8,]	-0.2377930	-0.6625977	-1.043945	-0.2866211	-0.7114258	-0.7573242
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[3,]	-0.8579102	-0.06933594	-0.3359375	-0.3232422	-0.11083984	0.21875000
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[3,]	-0.05419922	0.07861328	-0.2983398	-0.4575195	-0.7324219	-0.7436523
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[3,]	-0.7568359	-0.9448242	-0.5629883	-0.8491211	-0.5205078	-0.5161133
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[2,]	-0.3090820	-0.04101562	0.018066406	-0.02148438	-0.05468750	-0.05517578
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[4,]	-0.3012695	-0.10253906	0.006835938	0.11425781	-0.06005859	-0.05957031
[5,]	-0.2993164	-0.10742188	0.005859375	0.10937500	-0.06054688	-0.06054688
[6,]	-0.2993164	-0.11230469	0.005371094	0.10693359	-0.05957031	-0.06054688
[7,]	-0.2983398	-0.11669922	0.004882812	0.10449219	-0.05957031	-0.06005859
[8,]	-0.2988281	-0.12158203	0.003906250	0.10156250	-0.06054688	-0.06103516
[9,]	-0.2993164	-0.12548828	0.002929688	0.09863281	-0.06103516	-0.06103516
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[3,]	-0.060546875	0.5898438	0.3793945	-0.06494141	-1.045898	-0.06542969
[4,]	0.002929688	0.6186523	0.2036133	-0.06640625	-1.058105	-0.06640625
[5,]	0.003906250	0.3481445	0.2177734	-0.06445312	-1.061035	-0.06445312

[6,]	0.003417969	0.3491211	0.2192383	-0.06445312	-1.061523	-0.06494141
[7,]	0.002929688	0.3486328	0.2207031	-0.06347656	-1.063965	-0.06445312
[8,]	0.001464844	0.3481445	0.2211914	-0.06494141	-1.065430	-0.06494141
[9,]	0.001953125	0.3476562	0.2221680	-0.06445312	-1.066406	-0.06542969
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[2,]	-0.3339844	-0.2568359	-0.2036133	-0.2822266	-0.5024414	-0.2016602
[3,]	-0.3325195	-0.2539062	-0.1865234	-0.2773438	-0.5068359	-0.1972656
[4,]	-0.3334961	-0.2519531	-0.1757812	-0.2744141	-0.5058594	-0.1928711
[5,]	-0.3320312	-0.2500000	-0.1728516	-0.2719727	-0.5063477	-0.1923828
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[7,]	-0.3320312	-0.2490234	-0.1718750	-0.2714844	-0.5058594	-0.1914062
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[9,]	-0.3325195	-0.2480469	-0.1713867	-0.2719727	-0.5058594	-0.1923828
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[3,]	-0.01074219	-0.7221680	-0.3359375	0.01806641	-0.2617188	-0.8759766
[4,]	0.09326172	-0.7290039	-0.3354492	0.01562500	-0.2563477	-0.8569336
[5,]	0.08642578	-0.7304688	-0.3359375	0.01660156	-0.2558594	-0.9135742
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[5,]	-0.5312500	0.04736328	-0.7915039	-0.05517578	-0.4726562	-0.04248047
[6,]	-0.5327148	0.04736328	-0.7900391	-0.05468750	-0.4721680	-0.04833984
[7,]	-0.5332031	0.04736328	-0.7895508	-0.05517578	-0.4721680	-0.05371094
[8,]	-0.5356445	0.04687500	-0.7900391	-0.05566406	-0.4731445	-0.06152344
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[2,]	-0.91113281	-0.5258789	0.12207031	-0.3144531	-0.8266602	-0.0004882812
[3,]	-0.88232422	-0.5664062	0.16308594	-0.3159180	-0.8256836	-0.0102539062
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[9,]	-0.85449219	-0.6254883	0.10595703	-0.3120117	-0.8203125	-0.0102539062
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[3,]	0.1450195	-0.5483398	-0.3383789	-0.05371094	-0.1865234	-0.3647461
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[7,]	0.2353516	-0.5634766	-0.3359375	-0.05419922	-0.1718750	-0.3471680
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[3,]	-1.187012	-0.3081055	-0.2421875	-0.3144531	0.10693359	0.174804688
[4,]	-1.155273	-0.3090820	-0.2377930	-0.3129883	0.18945312	-0.005859375
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[3,]	0.1708984	0.12792969	-1.037109	-0.61865234	-0.51464844	-0.3125000
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[5,]	0.1835938	0.14355469	-1.041992	-0.60644531	-0.50537109	-0.3242188
[6,]	0.1831055	0.14404297	-1.041992	-0.60595703	-0.50439453	-0.3256836
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[3,]	-0.3979492	-1.226562	-0.8842773	-0.9399414	0.07324219	-0.6308594

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[8,]	-0.4082031	-1.225586	-0.8686523	-0.9418945	0.09423828	-0.5917969
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[3,]	-0.3129883	0.5063477	-0.2421875	-0.04736328	-0.3164062	-0.5395508
[4,]	-0.3154297	0.4638672	-0.2377930	-0.04931641	-0.3154297	-0.5390625
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[3,]	-0.8154297	-0.3281250	-0.1933594	-0.3178711	-0.3178711	-0.3359375
[4,]	-0.8081055	-0.3261719	-0.1977539	-0.3217773	-0.3217773	-0.3354492
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[7,]	-0.2172852	0.5576172	-0.7797852	-1.0380859	-0.4160156	-0.3437500
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[2,]	-0.7885742	-0.5195312	-0.3417969	-1.330078	-0.5097656	-0.022949219
[3,]	-0.8242188	-0.3789062	-0.3408203	-1.325684	-0.4614258	-0.030761719
[4,]	-0.8359375	-0.3867188	-0.3393555	-1.328125	-0.4365234	-0.030761719
[5,]	-0.8383789	-0.3730469	-0.3398438	-1.327148	-0.4296875	-0.031250000
[6,]	-0.8383789	-0.3740234	-0.3398438	-1.326660	-0.4282227	-0.030761719
[7,]	-0.8378906	-0.3745117	-0.3388672	-1.327148	-0.4267578	-0.030761719
[8,]	-0.8383789	-0.3764648	-0.3398438	-1.328125	-0.4272461	-0.031738281

[9,]	-0.8374023	-0.3774414	-0.3393555	-1.327148	-0.4267578	-0.031738281
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[3,]	-0.5976562	-0.2944336	0.12890625	-0.6337891	-0.2470703	-0.1884766
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[8,]	-0.5786133	-0.2988281	0.10546875	-0.6567383	-0.2255859	-0.2236328
[9,]	-0.5776367	-0.2983398	0.10400391	-0.6591797	-0.2250977	-0.2226562
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[7,]	-0.9062500	-1.394043	-0.12402344	-0.027343750	0.6455078	-0.3046875
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[3,]	0.3403320	-0.6206055	-0.7993164	-1.227051	-0.6206055	-0.5424805
[4,]	0.2753906	-0.6152344	-0.7954102	-1.230957	-0.6152344	-0.5576172
[5,]	-1.1523438	-0.6118164	-0.8286133	-1.231934	-0.6210938	-0.5625000
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[7,]	-1.1494141	-0.6113281	-0.8471680	-1.231934	-0.6206055	-0.5654297
[8,]	-1.1489258	-0.6123047	-0.8559570	-1.232422	-0.6210938	-0.5673828
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[3,]	-0.7539062	-0.7080078	2.8334961	-0.9189453	-1.436035	-0.4692383
[4,]	-0.7578125	-0.7329102	2.8999023	-0.9248047	-1.434082	-0.4624023
[5,]	-0.7573242	-0.7207031	-0.8261719	-0.9248047	-1.431641	-0.4609375
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[8,]	-0.7587891	-0.7304688	-0.8330078	-0.9248047	-1.429199	-0.4604492
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[3,]	-0.1347656	-0.3183594	-0.2822266	-0.06494141	-0.01904297	0.04296875
[4,]	-0.1416016	-0.3183594	-0.2861328	-0.06640625	-0.02050781	0.04101562
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[8,]	-0.7553711	-0.2460938	-1.121094	-0.9135742	0.4848633	-0.3037109
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[3,]	-0.06054688	-0.3945312	-0.5634766	-0.01904297	-0.6352539	-0.7436523
[4,]	-0.05957031	-0.3774414	-0.5356445	-0.02050781	-0.6479492	-0.7436523
[5,]	-0.06054688	-0.3710938	-0.5273438	-0.01611328	-0.6533203	-0.7426758
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[3,]	1.0268555	-0.02636719	-0.8735352	-0.14990234	-0.5151367	-0.2675781
[4,]	1.0439453	-0.02832031	-0.8730469	-0.14062500	-0.5131836	-0.2709961
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[7,]	1.0380859	-0.02441406	-0.8715820	-0.13916016	-0.5092773	-0.2724609
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[9,]	-0.6992188	-0.4311523	0.01269531	-0.3598633	-0.2202148	-1.301270
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[2,]	-0.2016602	1.167480	-0.5009766	-1.266602	-0.3437500	-0.1977539
[3,]	-0.2900391	1.205078	-0.4824219	-1.282715	-0.5234375	-0.2309570
[4,]	-0.2734375	1.221680	-0.4736328	-1.286621	-0.4819336	-0.2426758

[5,]	-0.2675781	1.228027	-0.4682617	-1.283203	-0.4707031	-0.2470703
[6,]	-0.2680664	1.226562	-0.4677734	-1.282715	-0.4702148	-0.2480469
[7,]	-0.2685547	1.225098	-0.4677734	-1.280762	-0.4692383	-0.2485352
[8,]	-0.2695312	1.222168	-0.4682617	-1.280762	-0.4702148	-0.2500000
[9,]	-0.2700195	1.220703	-0.4687500	-1.279785	-0.4692383	-0.2514648
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[4,]	0.21289062	0.4252930	-0.07666016	0.05908203	-0.5092773	-0.2324219
[5,]	0.21191406	0.4213867	-0.08789062	0.06445312	-0.5063477	-0.2319336
[6,]	0.21093750	0.4199219	-0.09082031	0.06445312	-0.5048828	-0.2309570
[7,]	0.21093750	0.4194336	-0.09423828	0.06347656	-0.5039062	-0.2309570
[8,]	0.20947266	0.4169922	-0.09765625	0.06250000	-0.5034180	-0.2309570
[9,]	0.20898438	0.4160156	-0.10107422	0.06152344	-0.5029297	-0.2314453
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[3,]	0.145996094	-0.4819336	-0.2773438	-0.04736328	-0.3359375	-1.154785
[4,]	0.139648438	-0.4780273	-0.2744141	-0.04931641	-0.3354492	-1.151367
[5,]	0.138183594	-0.4760742	-0.2729492	-0.04882812	-0.3354492	-1.148926
[6,]	0.137207031	-0.4760742	-0.2719727	-0.04785156	-0.3349609	-1.148926
[7,]	0.137207031	-0.4746094	-0.2714844	-0.04785156	-0.3349609	-1.148926
[8,]	0.135742188	-0.4750977	-0.2714844	-0.04833984	-0.3354492	-1.149414
[9,]	0.134765625	-0.4741211	-0.2709961	-0.04785156	-0.3354492	-1.148926
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[3,]	-0.01904297	0.32470703	0.5473633	-0.3071289	-0.3374023	-0.3481445
[4,]	-0.02050781	0.34960938	0.5092773	-0.2924805	-0.3398438	-0.3457031
[5,]	-0.02148438	0.35742188	0.4965820	-0.2885742	-0.3398438	-0.3447266
[6,]	-0.02148438	0.35595703	0.4848633	-0.2910156	-0.3388672	-0.3442383
[7,]	-0.02197266	0.35253906	0.4731445	-0.2934570	-0.3393555	-0.3437500
[8,]	-0.02246094	0.35009766	0.4609375	-0.2958984	-0.3398438	-0.3442383
[9,]	-0.02294922	0.34814453	0.4506836	-0.2978516	-0.3398438	-0.3442383
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[2,]	-0.1464844	-0.2016602	-0.1665039	-0.05468750	-0.3427734	-0.4223633
[3,]	-0.1420898	-0.1972656	-0.1416016	-0.01660156	-0.3320312	-0.4111328

[4,]	-0.1362305	-0.1928711	-0.1293945	-0.01708984	-0.3242188	-0.4042969
[5,]	-0.1342773	-0.1918945	-0.1264648	-0.01806641	-0.3574219	-0.4003906
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[8,]	-0.1352539	-0.1918945	-0.1284180	-0.01855469	-0.3544922	-0.4013672
[9,]	-0.1352539	-0.1909180	-0.1284180	-0.01855469	-0.3535156	-0.4008789
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[2,]	-0.4223633	-0.2280273	-0.7299805	-0.3046875	-0.2944336	-0.1743164
[3,]	-0.4921875	-0.2807617	-0.6806641	-0.2158203	-0.2924805	-0.3676758
[4,]	-0.4877930	-0.2753906	-0.6958008	-0.2221680	-0.2880859	-0.3500977
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[6,]	-0.4873047	-0.2739258	-0.7031250	-0.2236328	-0.2871094	-0.3437500
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[2,]	-0.4086914	-0.26513672	0.2290039	0.13183594	-0.08056641	-0.04980469
[3,]	-0.6083984	-0.52294922	-0.1806641	0.16992188	-0.05273438	-0.05371094
[4,]	-0.5805664	-0.47460938	-0.1342773	0.28027344	-0.03955078	-0.05419922
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[8,]	-0.5698242	-0.45800781	-0.1171875	0.26171875	-0.03076172	-0.05517578
[9,]	-0.5683594	-0.45654297	-0.1152344	0.25976562	-0.02929688	-0.05566406
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[2,]	-0.4184570	0.8637695	-0.04980469	-0.6035156	0.14111328	-0.12988281
[3,]	-0.3583984	0.9536133	-0.05371094	-0.5693359	0.12548828	-0.10644531
[4,]	-0.3286133	0.9331055	-0.05419922	-0.5522461	0.12158203	-0.09423828
[5,]	-0.3178711	0.9277344	-0.05517578	-0.5473633	0.11962891	-0.08935547
[6,]	-0.3164062	0.9228516	-0.05468750	-0.5463867	0.11816406	-0.08740234
[7,]	-0.3139648	0.9179688	-0.05468750	-0.5449219	0.11718750	-0.08593750
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[9,]	-0.3120117	0.9091797	-0.05468750	-0.5444336	0.11425781	-0.08496094
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[2,]	-0.3945312	0.04248047	0.05273438	-0.01171875	-0.4228516	-0.3105469

[3,]	-0.4096680	0.10791016	0.07324219	0.04248047	-0.4111328	-0.3105469
[4,]	-0.4160156	0.10400391	0.08349609	0.04199219	-0.4047852	-0.3115234
[5,]	-0.4165039	0.10302734	0.08789062	0.04101562	-0.4003906	-0.3105469
[6,]	-0.4160156	0.10205078	0.08691406	0.04150391	-0.4008789	-0.3095703
[7,]	-0.4160156	0.10205078	0.08593750	0.04052734	-0.4023438	-0.3090820
[8,]	-0.4169922	0.10009766	0.08496094	0.04052734	-0.4028320	-0.3100586
[9,]	-0.4165039	0.09960938	0.08349609	0.04052734	-0.4028320	-0.3090820
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[3,]	0.9482422	-0.2841797	-0.1772461	-0.3222656	-0.6557617	0.09277344
[4,]	0.9731445	-0.2836914	-0.1835938	-0.3203125	-0.6562500	0.07763672
[5,]	0.9829102	-0.2807617	-0.1850586	-0.3222656	-0.6547852	0.07421875
[6,]	0.9799805	-0.2797852	-0.1850586	-0.3217773	-0.6547852	0.07177734
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[9,]	0.9716797	-0.2797852	-0.1860352	-0.3217773	-0.6552734	0.06445312
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[3,]	1.2138672	0.002441406	-1.050293	-0.5107422	-0.9174805	-0.8833008
[4,]	1.1918945	-0.018554688	-1.030762	-0.4516602	-0.9174805	-0.8925781
[5,]	1.1845703	-0.024414062	-1.039551	-0.4594727	-0.9165039	-0.8925781
[6,]	1.1777344	-0.025390625	-1.041504	-0.4643555	-0.9160156	-0.8930664
[7,]	1.1713867	-0.027343750	-1.043945	-0.4682617	-0.9160156	-0.8930664
[8,]	1.1645508	-0.028808594	-1.047852	-0.4736328	-0.9165039	-0.8940430
[9,]	1.1586914	-0.029296875	-1.049805	-0.4790039	-0.9165039	-0.8940430
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[3,]	-0.2885742	-1.5322266	-0.3134766	-0.7675781	-0.2509766	-0.2207031
[4,]	-0.2958984	-1.5185547	-0.2910156	-0.7485352	-0.2363281	-0.2172852
[5,]	-0.2988281	-1.5244141	-0.2856445	-0.7412109	-0.3803711	-0.2861328
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[8,]	-0.3017578	-1.5278320	-0.2832031	-0.7382812	-0.3823242	-0.2856445
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[3,]	-0.3256836	-0.7089844	-0.4853516	-0.46533203	-0.6176758	-0.3432617
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[3,]	-0.4746094	-0.04736328	-0.3920898	-0.4174805	-0.4638672	-0.2504883
[4,]	-0.5312500	-0.04931641	-0.3867188	-0.3994141	-0.4599609	-0.2514648
[5,]	-0.5498047	-0.04882812	-0.3837891	-0.3950195	-0.4594727	-0.2539062
[6,]	-0.5527344	-0.04736328	-0.3828125	-0.3940430	-0.4584961	-0.2534180
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[3,]	-0.6323242	-0.6733398	-0.9912109	-0.4248047	0.53027344	-0.7407227
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[8,]	-0.02929688	-0.69287109	-0.05517578	-0.01806641	-1.0253906	-0.497558594
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[3,]	-0.1806641	-1.184570	-0.3681641	-0.04003906	-0.3730469	-0.5239258
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[6,]	-0.1889648	-1.171387	-0.3813477	-0.03955078	-0.3637695	-0.5195312
[7,]	-0.1894531	-1.170410	-0.3828125	-0.04003906	-0.3632812	-0.5190430
[8,]	-0.1899414	-1.170410	-0.3837891	-0.04052734	-0.3642578	-0.5195312
[9,]	-0.1894531	-1.169434	-0.3847656	-0.04052734	-0.3642578	-0.5195312
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[3,]	0.07763672	-0.3764648	-0.5288086	-0.6186523	-0.11865234	0.1611328
[4,]	0.07324219	-0.3813477	-0.5288086	-0.6362305	-0.13427734	0.1542969
[5,]	0.07226562	-0.3833008	-0.5288086	-0.6420898	-0.13964844	0.1533203
[6,]	0.07128906	-0.3833008	-0.5278320	-0.6420898	-0.13964844	0.1533203
[7,]	0.07080078	-0.3833008	-0.5273438	-0.6416016	-0.13964844	0.1533203
[8,]	0.07080078	-0.3842773	-0.5288086	-0.6425781	-0.14111328	0.1528320
[9,]	0.06982422	-0.3842773	-0.5283203	-0.6430664	-0.14111328	0.1533203
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[3,]	0.03369141	-0.06054688	-0.4995117	-0.9145508	-0.3393555	-0.7075195
[4,]	0.03076172	-0.06005859	-0.4599609	-0.9160156	-0.3393555	-0.6679688
[5,]	0.02929688	-0.06054688	-0.4750977	-0.9165039	-0.3374023	-0.6699219
[6,]	0.02929688	-0.06005859	-0.4799805	-0.9160156	-0.3374023	-0.6704102
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[9,]	0.02832031	-0.06054688	-0.4951172	-0.9174805	-0.3369141	-0.6748047
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[3,]	-0.2119141	-0.3222656	-0.2485352	-0.06494141	-0.5366211	-0.3203125
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[5,]	-0.3461914	-0.3237305	-0.2421875	-0.06445312	-0.5244141	-0.3134766
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[7,]	-0.3452148	-0.3242188	-0.2412109	-0.06445312	-0.5229492	-0.3139648
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[5,]	-1.1010742	0.3178711	-0.1782227	-1.662598	0.2226562	-0.9208984	-1.176758
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[3,]	-1.467285	-0.2597656	-1.0107422	-0.04003906	-0.8442383	0.002929688	
[4,]	-1.441895	-0.2719727	-1.0024414	-0.04101562	-0.8232422	0.019042969	
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[8,]	-1.458496	-0.2788086	-1.0000000	-0.04052734	-0.8149414	0.024414062
[9,]	-1.459473	-0.2797852	-0.9990234	-0.04052734	-0.8144531	0.025390625
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[2,]	0.3037109	-0.7788086	-0.5556641	-0.3681641	0.9228516	-0.20117188
[3,]	0.2812500	-0.7622070	-0.5810547	-0.4096680	1.0122070	-0.07910156
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[5,]	0.2695312	-0.7656250	-0.5908203	-0.3720703	0.9824219	-0.10595703
[6,]	0.2690430	-0.7651367	-0.5903320	-0.3701172	0.9804688	-0.10693359
[7,]	0.2675781	-0.7656250	-0.5903320	-0.3696289	0.9775391	-0.10839844
[8,]	0.2666016	-0.7661133	-0.5913086	-0.3691406	0.9746094	-0.11035156
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[7,]	-0.7963867	-0.5385742	-1.505859	-0.6528320	-0.7441406	0.8037109
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[3,]	-0.2856445	-0.7368164	-0.3359375	-0.3530273	-0.06054688	-0.5170898
[4,]	-0.2880859	-0.7255859	-0.3354492	-0.3623047	-0.06005859	-0.5170898
[5,]	-0.2890625	-0.7207031	-0.3354492	-0.3657227	-0.06054688	-0.5156250
[6,]	-0.2885742	-0.7207031	-0.3349609	-0.3657227	-0.06005859	-0.5151367
[7,]	-0.2890625	-0.7202148	-0.3359375	-0.3676758	-0.06005859	-0.5151367
[8,]	-0.2895508	-0.7207031	-0.3359375	-0.3681641	-0.06054688	-0.5156250
[9,]	-0.2890625	-0.7197266	-0.3354492	-0.3691406	-0.06054688	-0.5151367
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[3,]	-0.5112305	-0.7729492	-0.8374023	-0.6293945	-0.0102539062	-0.04736328
[4,]	-0.5107422	-0.6757812	-0.8344727	-0.6274414	-0.0117187500	-0.04931641
[5,]	-0.5083008	-0.6909180	-0.8320312	-0.6259766	-0.0102539062	-0.04882812
[6,]	-0.5073242	-0.6933594	-0.8315430	-0.6254883	-0.0107421875	-0.04785156

[7,]	-0.5073242	-0.6962891	-0.8310547	-0.6254883	-0.0112304688	-0.04785156
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[3,]	-0.3217773	0.2763672	-1.282227	-1.0126953	-1.268066	-1.246093750
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[8,]	-0.3222656	0.2631836	-1.325195	-1.0644531	-1.252930	-1.264160156
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[3,]	-0.3164062	-1.596191	0.2641602	-1.479980	-0.9150391	-1.197754
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[7,]	-0.4223633	-1.584961	0.1528320	-1.487305	-0.9960938	-1.238281
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[2,]	-0.2656250	-1.048828	-0.04199219	-0.322265625	0.14404297	0.06396484
[3,]	-0.3417969	-1.051758	-0.04736328	0.030761719	-0.10888672	0.09472656
[4,]	-0.3334961	-1.043457	-0.04931641	0.001953125	-0.08496094	0.11132812
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[6,]	-0.3295898	-1.043945	-0.04785156	-0.010742188	-0.07568359	0.11669922
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[8,]	-0.3300781	-1.044434	-0.04833984	-0.017089844	-0.07666016	0.11621094
[9,]	-0.3286133	-1.043945	-0.04882812	-0.020019531	-0.07617188	0.11718750
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[2,]	-0.2363281	-0.7182617	2.368164	-0.3652344	-0.2822266	-0.3491211
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[5,]	-0.2006836	-0.6269531	2.051758	-0.3417969	-0.2719727	-0.3359375

[6,]	-0.2011719	-0.6259766	2.048828	-0.3408203	-0.2714844	-0.3354492
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[3,]	-0.1118164	0.2773438	-0.6757812	-1.320312	-0.3281250	-0.3281250
[4,]	0.3266602	0.1142578	-0.6396484	-1.373047	-0.3266602	-0.3266602
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[6,]	0.3056641	0.1284180	-0.6220703	-1.392578	-0.3242188	-0.3247070
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[3,]	-0.3076172	0.3403320	0.05810547	-0.2924805	-0.39111328	-0.2924805
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[4,]	-0.7348633	-0.9487305	-1.253906	-1.446289	-1.563477	-1.099121	0.4125977
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[9,]	-0.7309570	-0.9785156	-1.269531	-1.456055	-1.545898	-1.099609	0.4179688
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[5,]	1.1811523	-1.737305	-0.7382812	-0.06982422	-0.1767578	-0.4609375	
[6,]	1.1757812	-1.738281	-0.7382812	-0.07031250	-0.1772461	-0.4604492	
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[3,]	-0.8247070	0.1074219	-0.3032227	0.4038086	-0.2919922	-1.0292969
[4,]	-0.8588867	0.1347656	-0.3027344	0.4125977	-0.2846680	-1.0634766
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[9,]	0.02636719	0.77685547	0.11083984	-0.3339844	-0.2514648	-0.8803711
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[6,]	-0.3779297	-1.034180	-0.9790039	-0.1328125	0.014648438	0.08886719
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[2,]	-0.135253906	-1.066406	-0.9838867	-0.10644531	-1.083496	-0.2656250
[3,]	0.088867188	-1.068848	-0.7988281	-0.09960938	-1.111328	-0.2504883
[4,]	0.040039062	-1.060547	-0.7641602	-0.12988281	-1.097168	-0.2397461
[5,]	0.022460938	-1.060547	-0.7744141	-0.14257812	-1.067383	-0.2373047
[6,]	0.017578125	-1.060547	-0.7768555	-0.14306641	-1.067383	-0.2363281
[7,]	0.011718750	-1.060547	-0.7792969	-0.14404297	-1.066895	-0.2358398
[8,]	0.007324219	-1.060547	-0.7812500	-0.14599609	-1.067871	-0.2363281
[9,]	0.001953125	-1.060547	-0.7832031	-0.14599609	-1.067871	-0.2353516
[10,]	-0.002929688	-1.061035	-0.7851562	-0.14843750	-1.068359	-0.2353516
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[3,]	-0.90039062	-0.3144531	-0.5200195	-0.6464844	-0.2524414	0.04296875
[4,]	-0.87695312	-0.3129883	-0.5161133	-0.6533203	-0.2416992	0.14941406
[5,]	-0.87988281	-0.3110352	-0.5151367	-0.6533203	-0.2402344	0.14843750
[6,]	-0.88085938	-0.3105469	-0.5151367	-0.6528320	-0.2387695	0.14794922
[7,]	-0.88183594	-0.3105469	-0.5146484	-0.6533203	-0.2382812	0.14697266
[8,]	-0.88330078	-0.3110352	-0.5151367	-0.6533203	-0.2377930	0.14550781
[9,]	-0.88476562	-0.3110352	-0.5141602	-0.6533203	-0.2368164	0.14501953
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[3,]	-0.2421875	-0.06054688	-0.3320312	-0.3227539	0.05957031	-0.04052734
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[5,]	-0.2363281	-0.06054688	-0.3291016	-0.3203125	0.05664062	-0.04003906
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[8,]	-0.2358398	-0.06054688	-0.3286133	-0.3203125	0.05615234	-0.04101562

[9,]	-0.2353516	-0.06103516	-0.3281250	-0.3203125	0.05566406	-0.04150391
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[3,]	-0.2988281	-0.3315430	-0.28857422	-0.6723633	-1.284668	-0.4174805
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[5,]	-0.3022461	-0.3330078	-0.25830078	-0.6684570	-1.309082	-0.4086914
[6,]	-0.3017578	-0.3320312	-0.26171875	-0.6679688	-1.310059	-0.4082031
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[3,]	-0.04736328	0.07324219	0.34326172	-0.3115234	0.2392578	0.10839844
[4,]	-0.04931641	0.08398438	0.33447266	-0.3115234	0.2333984	0.10498047
[5,]	-0.04882812	0.08789062	0.33251953	-0.3115234	0.2290039	0.10302734
[6,]	-0.04736328	0.08886719	0.32910156	-0.3115234	0.2294922	0.10351562
[7,]	-0.04833984	0.08935547	0.32421875	-0.3115234	0.2294922	0.10351562
[8,]	-0.04833984	0.08935547	0.31982422	-0.3125000	0.2290039	0.10253906
[9,]	-0.04882812	0.08984375	0.31640625	-0.3125000	0.2290039	0.10302734
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[3,]	0.178222656	-1.667969	-0.6752930	-1.906250	-0.9365234	-0.5024414
[4,]	-0.014648438	-1.638672	-0.6958008	-1.903320	-0.9101562	-0.5112305
[5,]	-0.007812500	-1.646973	-0.7050781	-1.904785	-0.9135742	-0.5156250
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[8,]	-0.008300781	-1.650879	-0.7080078	-1.903809	-0.9155273	-0.5166016
[9,]	-0.008300781	-1.652344	-0.7094727	-1.902832	-0.9155273	-0.5166016
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[3,]	-0.2988281	-0.8544922	0.81152344	0.4580078	-0.7651367	-0.7299805
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[8,]	-0.3022461	-0.8520508	0.80517578	0.4848633	-0.7578125	-0.7548828
[9,]	-0.3022461	-0.8520508	0.80224609	0.4853516	-0.7578125	-0.7553711
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[2,]	-1.0541992	0.5351562	-0.4257812	-0.5185547	0.1420898	-0.3251953
[3,]	-1.0102539	0.5483398	-0.3989258	-0.5102539	0.1235352	-0.3315430
[4,]	-0.9848633	0.5996094	-0.4062500	-0.5107422	0.1201172	-0.3330078
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[6,]	-0.9926758	0.5664062	-0.4096680	-0.5107422	0.1181641	-0.3320312
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[3,]	-0.5053711	-1.132812	-1.0761719	-0.3256836	-1.131348	-1.1572266
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[5,]	-0.5092773	-1.149414	-1.1054688	-0.3256836	-1.121094	-1.2045898
[6,]	-0.5092773	-1.149902	-1.1069336	-0.3256836	-1.121094	-1.2031250
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[8,]	-0.5097656	-1.151855	-1.1093750	-0.3266602	-1.122559	-1.2021484
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[3,]	-0.8876953	-0.4121094	-0.8212891	-0.3486328	-0.4760742	-0.5898438
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[3,]	-1.451172	-0.5971680	0.3237305	-0.14990234	-0.4819336	-0.4291992
[4,]	-1.421387	-0.5913086	0.3144531	-0.14013672	-0.4780273	-0.4331055
[5,]	-1.424316	-0.5888672	0.3115234	-0.13867188	-0.4760742	-0.4350586
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[7,]	-1.424805	-0.5878906	0.3095703	-0.13818359	-0.4755859	-0.4340820
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[2,]	-0.1679688	-1.319336	0.1777344	-0.3300781	-0.5317383	-0.16845703
[3,]	-0.1904297	-1.315430	0.1621094	-0.3085938	-0.7592773	-0.35205078
[4,]	-0.1972656	-1.346191	0.1557617	-0.3090820	-0.7426758	-0.34667969
[5,]	-0.1987305	-1.364746	0.1538086	-0.3100586	-0.7377930	-0.34375000
[6,]	-0.1987305	-1.363770	0.1538086	-0.3105469	-0.7363281	-0.34277344
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[3,]	0.36669922	-0.2587891	-0.1899414	0.8837891	-0.3037109	-1.683594
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[3,]	-0.6376953	0.39306641	-0.5551758	-0.5019531	-0.1489258	-0.2792969
[4,]	-0.6977539	0.22509766	-0.5483398	-0.4902344	-0.1406250	-0.2695312
[5,]	-0.8378906	0.14697266	-0.6030273	-0.4873047	-0.1372070	-0.2670898
[6,]	-0.8325195	0.15234375	-0.6020508	-0.4858398	-0.1367188	-0.2651367
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[3,]	-1.2670898	-0.6601562	-0.4394531	0.2568359	-0.6972656	-0.30029297
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[5,]	-1.2739258	-0.6113281	-0.4184570	0.3154297	-0.6782227	-0.28222656

[6,]	-1.2729492	-0.6196289	-0.4179688	0.3154297	-0.6772461	-0.28320312	
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[3,]	-0.3955078	-0.6894531	-0.33007812	0.01464844	0.4858398	0.1801758	
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[5,]	-0.4169922	-0.7099609	-0.32031250	0.01318359	0.4677734	0.1713867	
[6,]	-0.4189453	-0.7114258	-0.32031250	0.01269531	0.4687500	0.1718750	
[7,]	-0.4223633	-0.7124023	-0.32031250	0.01318359	0.4687500	0.1718750	
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[2,]	0.04052734	0.28076172	0.12597656	0.01367188	-0.06103516	-0.04199219	
[3,]	0.03027344	0.25878906	0.11083984	0.07421875	-0.06494141	-0.04736328	
[4,]	0.02734375	0.25244141	0.10693359	0.06884766	-0.06640625	-0.04931641	
[5,]	0.02587891	0.24951172	0.10546875	0.06982422	-0.06494141	-0.04882812	
[6,]	0.02587891	0.24951172	0.10546875	0.06933594	-0.06445312	-0.04785156	
[7,]	0.02636719	0.24902344	0.10498047	0.06982422	-0.06396484	-0.04785156	
[8,]	0.02539062	0.24804688	0.10302734	0.06884766	-0.06445312	-0.04785156	
[9,]	0.02490234	0.24755859	0.10400391	0.06884766	-0.06445312	-0.04785156	
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[3,]	-0.031250000	-0.5981445	-0.4531250	-0.1196289	0.8427734	-0.6269531	
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[5,]	-0.031250000	-0.6215820	-0.3940430	-0.1313477	0.8203125	-0.6235352	
[6,]	-0.030761719	-0.6210938	-0.3955078	-0.1318359	0.8164062	-0.6225586	
[7,]	-0.030273438	-0.6210938	-0.3974609	-0.1323242	0.8120117	-0.6225586	
[8,]	-0.031738281	-0.6210938	-0.3989258	-0.1333008	0.8061523	-0.6235352	
[9,]	-0.030761719	-0.6206055	-0.4008789	-0.1347656	0.8032227	-0.6220703	
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[3,]	-0.2856445	-1.091797	-1.942383	-0.3510742	-1.0874023	-1.243652	-0.2397461
[4,]	-0.2885742	-1.092773	-1.947266	-0.3271484			

[5,]	-0.2890625	-1.091797	-1.937500	-0.3286133	-1.0595703	-1.254395	-0.2470703
[6,]	-0.2890625	-1.091309	-1.936035	-0.3286133	-1.0595703	-1.253906	-0.2465820
[7,]	-0.2895508	-1.091309	-1.934082	-0.3291016	-1.0600586	-1.253906	-0.2465820
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[3,]	-0.3383789	-0.3403320	0.01464844	-0.3413086	-0.5205078	-0.3666992	
[4,]	-0.3349609	-0.3403320	0.01220703	-0.3403320	-0.5175781	-0.3876953	
[5,]	-0.3349609	-0.3398438	0.01318359	-0.3066406	-0.5161133	-0.3959961	
[6,]	-0.3349609	-0.3393555	0.01318359	-0.3061523	-0.5151367	-0.3974609	
[7,]	-0.3339844	-0.3388672	0.01367188	-0.3061523	-0.5156250	-0.4003906	
[8,]	-0.3349609	-0.3393555	0.01269531	-0.3066406	-0.5161133	-0.4023438	
[9,]	-0.3339844	-0.3393555	0.01367188	-0.3056641	-0.5151367	-0.4047852	
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[3,]	0.1420898	-0.4487305	-0.4741211	0.10693359	-0.3325195	-1.0112305	
[4,]	0.1372070	-0.4619141	-0.4785156	0.10302734	-0.3286133	-0.9633789	
[5,]	0.1357422	-0.4667969	-0.4804688	0.10107422	-0.3291016	-0.9882812	
[6,]	0.1352539	-0.4677734	-0.4799805	0.10058594	-0.3286133	-0.9916992	
[7,]	0.1347656	-0.4682617	-0.4804688	0.10107422	-0.3286133	-0.9936523	
[8,]	0.1333008	-0.4711914	-0.4819336	0.09960938	-0.3291016	-0.9975586	
[9,]	0.1323242	-0.4711914	-0.4824219	0.09960938	-0.3291016	-1.0004883	
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[3,]	0.03027344	-0.5942383	-1.485840	-1.136719	-0.5239258	-0.04736328	
[4,]	0.02734375	-0.5825195	-1.525879	-1.021973	-0.5200195	-0.04931641	
[5,]	0.02587891	-0.5776367	-1.542480	-1.034668	-0.5195312	-0.04882812	
[6,]	0.02587891	-0.5756836	-1.539062	-1.039551	-0.5195312	-0.04785156	
[7,]	0.02587891	-0.5737305	-1.535645	-1.043457	-0.5190430	-0.04785156	
[8,]	0.02539062	-0.5727539	-1.532715	-1.047852	-0.5190430	-0.04833984	
[9,]	0.02441406	-0.5708008	-1.529785	-1.052246	-0.5190430	-0.04882812	
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[2,]	0.3076172	-0.2929688	-0.9516602	-1.2084961	-1.2846680	2.027832	
[3,]	0.3247070	-0.2792969	-0.9643555	-1.1879883	-1.2954102	2.227051	

[4,]	0.3364258	-0.2714844	-0.8339844	-1.1762695	-1.3125000	1.656738	
[5,]	0.3408203	-0.2685547	-0.8422852	-1.1840820	-1.3193359	1.685547	
[6,]	0.3403320	-0.2685547	-0.8422852	-1.1860352	-1.3208008	1.686523	
[7,]	0.3393555	-0.2680664	-0.8427734	-1.1870117	-1.3222656	1.687988	
[8,]	0.3383789	-0.2690430	-0.8437500	-1.1899414	-1.3242188	1.687500	
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[3,]	-1.0249023	-0.09130859	-0.6596680	-0.7329102	-0.012695312	-0.08789062	
[4,]	-1.0078125	0.10449219	-0.6582031	-0.5883789	-0.017089844	0.24951172	
[5,]	-1.0039062	0.08642578	-0.6557617	-0.5961914	-0.015625000	0.24365234	
[6,]	-1.0034180	0.08349609	-0.6552734	-0.5986328	-0.014648438	0.24023438	
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[6,]	0.59667969	-1.0385742	0.65234375	-1.111816	-0.4584961	-0.2871094	
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[3,]	-0.3559570	-0.6748047	-0.3491211	-0.2119141	-0.5678711	-0.2968750	
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[2,]	-0.3051758	0.14111328	1.1298828	-1.441895	-0.4160156	-1.326660	-0.9462891

[3,]	-0.3134766	0.12500000	0.9702148	-1.418945	-0.5478516	-1.244141	-0.8984375
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[6,]	-0.3154297	0.11865234	1.0205078	-1.442383	-0.5283203	-1.172852	-0.9252930
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[3,]	-0.8515625	-0.4711914	-1.398926	-1.668457	-0.6542969	-0.3315430	-1.291504
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[5,]	-0.8291016	-0.5620117	-1.232910	-1.684082	-0.6586914	-0.3330078	-1.287598
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[3,]	0.42968750	-0.4824219	0.4340820	-0.2255859	-0.8847656	-0.5087891
[4,]	0.42089844	-0.4638672	0.4497070	-0.2275391	-0.8837891	-0.5141602
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[7,]	0.40625000	-0.4550781	0.4580078	-0.2250977	-0.8847656	-0.5131836
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[9,]	0.39355469	-0.4516602	0.4584961	-0.2255859	-0.8847656	-0.5151367
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[3,]	-0.05419922	0.06933594	0.8095703	0.28027344	-0.7851562	-0.3266602
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[8,]	-0.05517578	0.06152344	0.7778320	0.09619141	-0.8037109	-0.3256836
[9,]	-0.05468750	0.04931641	0.7641602	0.09863281	-0.8027344	-0.3256836
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[9,]	-0.4931641	-0.3251953	-0.6098633	-0.7026367	-0.4482422	-0.04833984
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[3,]	1.0375977	-0.9345703	-0.6391602	-0.5854492	0.4584961	0.12792969
[4,]	0.9223633	-0.9531250	-0.5859375	-0.6103516	0.6113281	0.13964844
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[5,]	-1.011719	-1.1816406	-0.0107421875	-0.7905273	-0.2553711	-0.5795898
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[5,]	-0.3393555	-0.2753906	-0.4497070	0.42138672	-0.5756836	0.05712891
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[7,]	0.6933594	-0.40527344	0.17578125	-0.2919922	0.3627930	-0.4936523
[8,]	0.6870117	-0.40625000	0.17431641	-0.2934570	0.3608398	-0.4941406
[9,]	0.6816406	-0.40576172	0.17382812	-0.2929688	0.3608398	-0.4941406
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[3,]	0.3017578	-0.9794922	-0.7192383	-0.8388672	-0.4174805	-1.0893555
[4,]	0.2685547	-0.9741211	-0.7358398	-0.8310547	-0.4042969	-1.0756836
[5,]	0.2573242	-0.9770508	-0.7412109	-0.8276367	-0.4003906	-1.0703125
[6,]	0.2524414	-0.9755859	-0.7426758	-0.8261719	-0.3994141	-1.0693359
[7,]	0.2475586	-0.9750977	-0.7436523	-0.8251953	-0.3989258	-1.0688477
[8,]	0.2416992	-0.9750977	-0.7451172	-0.8251953	-0.3999023	-1.0693359
[9,]	0.2373047	-0.9736328	-0.7460938	-0.8242188	-0.3994141	-1.0683594
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[3,]	-0.8579102	-0.4111328	-0.04052734	-0.2924805	-0.2407227	-0.3481445
[4,]	-0.8540039	-0.4047852	-0.04101562	-0.2875977	-0.1958008	-0.3457031
[5,]	-0.8544922	-0.4658203	-0.04052734	-0.2866211	-0.1826172	-0.3452148
[6,]	-0.8540039	-0.4663086	-0.04003906	-0.2861328	-0.1806641	-0.3447266
[7,]	-0.8544922	-0.4663086	-0.03955078	-0.2861328	-0.1787109	-0.3442383

[8,]	-0.8554688	-0.4672852	-0.04052734	-0.2866211	-0.1772461	-0.3447266
[9,]	-0.8549805	-0.4672852	-0.04101562	-0.2861328	-0.1752930	-0.3447266
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[3,]	-0.5683594	-0.2207031	-0.5410156	-0.9809570	-0.7075195	-0.4956055
[4,]	-0.5927734	-0.2172852	-0.5312500	-0.9565430	-0.7622070	-0.5043945
[5,]	-0.6000977	-0.2148438	-0.5278320	-0.9541016	-0.8496094	-0.5039062
[6,]	-0.6010742	-0.2148438	-0.5268555	-0.9550781	-0.8466797	-0.5034180
[7,]	-0.6025391	-0.2148438	-0.5263672	-0.9580078	-0.8447266	-0.5034180
[8,]	-0.6030273	-0.2148438	-0.5263672	-0.9604492	-0.8432617	-0.5029297
[9,]	-0.6040039	-0.2148438	-0.5258789	-0.9624023	-0.8413086	-0.5034180
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[3,]	-0.2719727	-0.3999023	-0.6879883	0.7236328	-0.7534180	-0.7534180
[4,]	-0.3911133	-0.3940430	-0.6987305	0.5839844	-0.7441406	-0.7441406
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[6,]	-0.3867188	-0.3916016	-0.7006836	-1.0927734	-0.8100586	-0.8100586
[7,]	-0.3862305	-0.3916016	-0.7006836	-1.0922852	-0.8100586	-0.8100586
[8,]	-0.3876953	-0.3920898	-0.7016602	-1.0937500	-0.8105469	-0.8105469
[9,]	-0.3867188	-0.3916016	-0.7016602	-1.0942383	-0.8100586	-0.8100586
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[3,]	-1.082031	-0.5151367	0.06884766	-0.20361328	-0.6459961	-0.5249023
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[5,]	-1.087891	-0.7573242	0.05029297	0.08837891	-0.6455078	-0.5170898
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[7,]	-1.086914	-0.7553711	0.04736328	0.08251953	-0.6450195	-0.5175781
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[3,]	-1.110352	-0.4531250	-0.3549805	0.029785156	-0.11230469	0.19042969
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[7,]	-1.106934	-0.4511719	-0.2587891	0.028808594	-0.09814453	0.20263672
[8,]	-1.107422	-0.4516602	-0.2631836	0.026855469	-0.09814453	0.20214844
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[2,]	-0.3310547	0.4423828	-0.1464844	-0.2392578	-0.4477539	-0.2944336
[3,]	-0.3129883	0.5000000	-0.1420898	-0.2558594	-0.5698242	-0.3076172
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[5,]	-0.3149414	0.2167969	-0.1342773	-0.2622070	-0.5541992	-0.2304688
[6,]	-0.3154297	0.2167969	-0.1337891	-0.2612305	-0.5522461	-0.2309570
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[8,]	-0.3173828	0.2143555	-0.1333008	-0.2622070	-0.5517578	-0.2319336
[9,]	-0.3168945	0.2138672	-0.1328125	-0.2622070	-0.5512695	-0.2333984
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[3,]	-0.4409180	-0.3046875	-0.07177734	-0.2924805	-0.04052734	-0.2187500
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[5,]	-0.4331055	-0.2407227	-0.21923828	-0.2871094	-0.04052734	-0.2065430
[6,]	-0.4326172	-0.2416992	-0.21728516	-0.2856445	-0.04052734	-0.2050781
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[8,]	-0.4331055	-0.2441406	-0.21630859	-0.2856445	-0.04199219	-0.2045898
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[3,]	-0.2612305	-0.4765625	-0.3144531	1.270020	-0.2036133	-0.3364258
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[3,]	-0.2612305	-0.3046875	0.032714844	-0.8120117	-0.3300781	0.3891602
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[6,]	-0.2548828	-0.2993164	0.015136719	-0.7895508	-0.4614258	0.5654297
[7,]	-0.2543945	-0.2993164	0.012695312	-0.7900391	-0.4609375	0.5649414
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[3,]	1.2939453	-0.3813477	-0.4907227	-0.7500000	0.6904297	0.2587891
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[6,]	1.3413086	-0.1542969	-0.5327148	-1.4404297	0.7583008	0.3896484
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[4,]	-0.4536133	0.11132812	0.1728516	0.1928711	-0.4570312	0.017089844
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[8,]	0.25488281	0.0551757812	-0.2929688	-0.08886719	0.08496094	-0.02197266
[9,]	0.25097656	0.0551757812	-0.2929688	-0.08837891	0.08496094	-0.02246094
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[2,]	-0.7714844	0.4907227	-0.01123047	-0.4584961	-0.3149414	-0.7836914
[3,]	-0.7846680	0.4599609	0.04248047	-0.3886719	-0.3242188	-0.7890625
[4,]	-0.7846680	0.4477539	0.04199219	-0.3564453	-0.3232422	-0.7519531
[5,]	-0.7851562	0.4438477	0.04199219	-0.3691406	-0.3237305	-0.7524414
[6,]	-0.7851562	0.4423828	0.04199219	-0.3657227	-0.3227539	-0.7519531
[7,]	-0.7846680	0.4389648	0.04248047	-0.3627930	-0.3227539	-0.7514648
[8,]	-0.7851562	0.4360352	0.04150391	-0.3613281	-0.3232422	-0.7519531
[9,]	-0.7846680	0.4335938	0.04150391	-0.3583984	-0.3227539	-0.7519531
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[3,]	0.18750000	0.2075195	-0.4643555	-0.5087891	-0.2773438	-0.7436523

[4,]	0.20947266	0.3198242	-0.4692383	-0.5097656	-0.2744141	-0.7382812
[5,]	-0.02734375	0.4985352	-0.3066406	-0.5112305	-0.2719727	-0.7358398
[6,]	-0.02539062	0.4941406	-0.3071289	-0.5122070	-0.2714844	-0.7343750
[7,]	-0.02539062	0.4902344	-0.3081055	-0.5122070	-0.2714844	-0.7348633
[8,]	-0.02490234	0.4853516	-0.3085938	-0.5131836	-0.2719727	-0.7358398
[9,]	-0.02441406	0.4804688	-0.3095703	-0.5136719	-0.2719727	-0.7353516
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[3,]	0.3603516	-0.8901367	-0.6914062	-0.2851562	-0.3754883	-0.7153320
[4,]	0.3530273	-0.8588867	-0.6860352	-0.2885742	-0.3686523	-0.6850586
[5,]	0.3505859	-0.8720703	-0.6879883	-0.2807617	-0.3647461	-0.7788086
[6,]	0.3486328	-0.8686523	-0.6855469	-0.2812500	-0.3632812	-0.7773438
[7,]	0.3461914	-0.8666992	-0.6845703	-0.2822266	-0.3618164	-0.7758789
[8,]	0.3432617	-0.8652344	-0.6831055	-0.2832031	-0.3618164	-0.7753906
[9,]	0.3422852	-0.8632812	-0.6821289	-0.2832031	-0.3608398	-0.7744141
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[2,]	-0.3652344	0.21044922	0.4018555	-0.3105469	0.07080078	-0.2636719
[3,]	-0.3530273	0.17871094	0.3471680	-0.3105469	0.33837891	-0.2524414
[4,]	-0.3457031	0.05566406	0.3271484	-0.3115234	0.32958984	-0.3510742
[5,]	-0.3432617	-0.09423828	0.3208008	-0.3100586	0.32617188	-0.3505859
[6,]	-0.3422852	-0.09033203	0.3212891	-0.3095703	0.32324219	-0.3500977
[7,]	-0.3422852	-0.08740234	0.3208008	-0.3081055	0.31982422	-0.3496094
[8,]	-0.3427734	-0.08447266	0.3203125	-0.3090820	0.31445312	-0.3505859
[9,]	-0.3417969	-0.08154297	0.3198242	-0.3095703	0.31152344	-0.3500977
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[3,]	-0.1962891	-0.5136719	-0.2900391	-0.3315430	-0.2680664	0.2558594
[4,]	-0.1826172	-0.5097656	-0.2900391	-0.3330078	-0.2700195	0.2651367
[5,]	-0.1767578	-0.5087891	-0.2910156	-0.3315430	-0.2714844	0.2690430
[6,]	-0.1777344	-0.5078125	-0.2919922	-0.3320312	-0.2714844	0.2675781
[7,]	-0.1782227	-0.5073242	-0.2929688	-0.3320312	-0.2714844	0.2661133
[8,]	-0.1801758	-0.5068359	-0.2954102	-0.3330078	-0.2719727	0.2641602
[9,]	-0.1816406	-0.5068359	-0.2958984	-0.3330078	-0.2719727	0.2622070
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[3,]	-0.2822266	-0.4877930	-0.3818359	-0.6406250	-0.3378906	0.08691406
[4,]	-0.2666016	-0.3808594	-0.3754883	-0.6274414	-0.3452148	0.07177734
[5,]	-0.2651367	-0.4008789	-0.3745117	-0.6269531	-0.3369141	0.08691406
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[7,]	-0.2670898	-0.4121094	-0.3745117	-0.6245117	-0.3354492	0.08154297
[8,]	-0.2685547	-0.4174805	-0.3759766	-0.6254883	-0.3359375	0.07861328
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[3,]	-0.6572266	-0.5297852	-0.2255859	-0.4326172	-0.3144531	0.04296875
[4,]	-0.6474609	-0.5278320	-0.2070312	-0.4316406	-0.3129883	0.14990234
[5,]	-0.6547852	-0.5292969	-0.2265625	-0.4311523	-0.3139648	0.14941406
[6,]	-0.6533203	-0.5278320	-0.2236328	-0.4296875	-0.3134766	0.14843750
[7,]	-0.6523438	-0.5273438	-0.2216797	-0.4287109	-0.3134766	0.14648438
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[9,]	-0.6513672	-0.5283203	-0.2187500	-0.4282227	-0.3139648	0.14355469
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[2,]	-0.3413086	-0.05517578	-0.3520508	-0.5253906	1.199707	0.3334961 1.410156
[3,]	-0.3408203	-0.06054688	-0.5375977	-0.5205078	1.250000	0.3935547 1.525879
[4,]	-0.3393555	-0.06005859	-0.5307617	-0.5170898	1.274902	0.4223633 1.637695
[5,]	-0.3403320	-0.06054688	-0.5292969	-0.5161133	1.196777	0.4321289 1.643555
[6,]	-0.3403320	-0.06005859	-0.5302734	-0.5156250	1.198242	0.4326172 1.629883
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[9,]	-0.3398438	-0.06054688	-0.5317383	-0.5156250	1.197266	0.4311523 1.589844
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[2,]	-0.6406250	-0.3623047	-0.5043945	-0.3334961	0.3891602	0.19726562
[3,]	-0.6210938	-0.3388672	-0.5859375	-0.3369141	0.2314453	0.18017578
[4,]	-0.6245117	-0.3559570	-0.5844727	-0.3359375	0.2553711	0.17626953
[5,]	-0.6259766	-0.3525391	-0.5830078	-0.3354492	0.2622070	0.17285156
[6,]	-0.6254883	-0.3549805	-0.5825195	-0.3344727	0.2631836	0.17285156
[7,]	-0.6259766	-0.3564453	-0.5820312	-0.3339844	0.2636719	0.17236328
[8,]	-0.6274414	-0.3593750	-0.5825195	-0.3344727	0.2626953	0.17187500
[9,]	-0.6269531	-0.3603516	-0.5815430	-0.3344727	0.2631836	0.17138672
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[3,]	-0.2333984	-0.5087891	-0.4741211	-0.2968750	0.1420898	-0.3515625
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[8,]	-0.1513672	-0.5092773	-0.4824219	-0.2954102	0.1328125	-0.3417969
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[3,]	-0.04736328	-0.05419922	-0.6586914	0.20458984	0.030273438	-0.5268555
[4,]	-0.04931641	-0.05419922	-0.6235352	0.22314453	0.027343750	-0.5263672
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[3,]	0.21240234	0.07373047	0.2119141	-0.012695312	-0.8383789	-0.2612305
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[4,]	0.3793945	0.1796875	-0.4887695	-0.04931641	-0.2880859	-0.1928711
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[9,]	-0.2695312	-0.01757812	-1.1962891	-0.3105469	-0.1264648	-0.484375000
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[3,]	-0.6289062	-0.7636719	-0.7612305	-0.5297852	-0.8237305	-0.0102539062
[4,]	-0.6225586	-0.7460938	-0.7504883	-0.5292969	-0.8427734	-0.0117187500
[5,]	-0.6215820	-0.5073242	-0.7456055	-0.5283203	-0.7172852	-0.0102539062
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[7,]	-0.6201172	-0.5068359	-0.7465820	-0.5273438	-0.7182617	-0.0117187500
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[9,]	-0.6201172	-0.5068359	-0.7475586	-0.5278320	-0.7202148	-0.0126953125
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[3,]	-0.7124023	-0.2812500	-0.7519531	-0.3496094	-0.3364258	-0.2539062
[4,]	-0.7016602	-0.2714844	-0.7763672	-0.3505859	-0.3369141	-0.2524414
[5,]	-0.6982422	-0.2690430	-0.7832031	-0.3496094	-0.3349609	-0.2495117
[6,]	-0.6958008	-0.2680664	-0.7836914	-0.3491211	-0.3354492	-0.2500000
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[3,]	-0.06494141	-0.6625977	1.086426	0.19042969	-0.3046875	-0.2797852
[4,]	-0.06640625	-0.7001953	1.104980	0.19970703	-0.3012695	-0.2822266
[5,]	-0.06494141	-0.71119141	1.110840	0.19726562	-0.3012695	-0.2822266
[6,]	-0.06445312	-0.7104492	1.108887	0.19873047	-0.3002930	-0.2817383
[7,]	-0.06445312	-0.7094727	1.106934	0.20019531	-0.2993164	-0.2822266
[8,]	-0.06494141	-0.7094727	1.103516	0.20166016	-0.2993164	-0.2836914
[9,]	-0.06494141	-0.7070312	1.100586	0.20312500	-0.2993164	-0.2846680
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[3,]	-0.0390625	-0.50195312	-0.2524414	0.17089844	-0.3559570	0.11474609
[4,]	-0.1499023	-0.58349609	-0.2416992	0.15576172	-0.3666992	0.07910156
[5,]	-0.3090820	-0.57958984	-0.2397461	0.15039062	-0.3696289	0.06640625
[6,]	-0.3071289	-0.57861328	-0.2382812	0.14990234	-0.3686523	0.06250000
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[3,]	-0.2167969	-0.4531250	-0.4633789	-0.01904297	-0.3125000	-0.6372070
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[5,]	-0.2246094	-0.3862305	-0.4482422	-0.02197266	-0.3164062	-0.6279297
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[7,]	-0.2280273	-0.3876953	-0.4467773	-0.02099609	-0.3159180	-0.6284180
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[3,]	-0.3339844	-0.3374023	-0.3232422	0.3955078	0.2607422	-0.3959961
[4,]	-0.3339844	-0.3393555	-0.3198242	0.4370117	0.2519531	-0.3857422
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[8,]	-0.3330078	-0.3393555	-0.3188477	0.4033203	0.2475586	-0.3828125
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[8,]	-0.8925781	-0.3339844	-0.3457031	-1.027344	0.05371094	-0.2714844
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[3,]	-0.29492188	-0.1699219	0.19628906	-0.3134766	-0.4316406	-0.05371094
[4,]	-0.28222656	-0.1665039	0.18945312	-0.3144531	-0.4262695	-0.05419922
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[8,]	-0.27539062	-0.1650391	0.17871094	-0.3022461	-0.4233398	-0.05566406
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[3,]	0.6938477	-0.7729492	-0.3212891	-0.3046875	-0.1674805	-0.6303711
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[3,]	0.2875977	-0.4946289	-0.5429688	-0.5131836	-0.5292969	-0.04736328
[4,]	0.2382812	-0.4843750	-0.5346680	-0.5908203	-0.5004883	0.02636719
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[3,]	0.9145508	-0.7333984	0.3276367	-0.3647461	-0.6142578	-0.4707031
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[8,]	-0.9038086	-1.0571289	-0.2958984	-0.02294922	-0.04882812	-0.2768555
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[3,]	0.3432617	-0.4887695	-0.3217773	-0.2348633	-0.6245117	-0.4624023
[4,]	0.3330078	-0.4936523	-0.3071289	-0.2246094	-0.6474609	-0.4692383
[5,]	0.3310547	-0.4941406	-0.3061523	-0.2221680	-0.6557617	-0.4716797
[6,]	0.3300781	-0.4951172	-0.3071289	-0.2207031	-0.6552734	-0.4711914

[7,]	0.3305664	-0.4951172	-0.3085938	-0.2197266	-0.6552734	-0.4716797
[8,]	0.3291016	-0.4970703	-0.3100586	-0.2197266	-0.6557617	-0.4716797
[9,]	0.3291016	-0.4965820	-0.3110352	-0.2182617	-0.6557617	-0.4716797
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[9,]	-0.06396484	-0.6381836	-0.4960938	-0.5249023	-0.4985352	-0.5888672
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[3,]	-0.8344727	-0.3715820	0.2055664	1.323730	-0.7050781	-0.1967773
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[6,]	-0.8134766	-0.3940430	0.1655273	1.337402	-0.6933594	-0.2109375
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[3,]	-0.2773438	-0.3945312	-0.5297852	0.3271484	-0.5249023	-0.16601562
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[3,]	-0.7026367	-0.1069336	0.07373047	-0.5078125	-0.2036133	-0.2578125
[4,]	-0.6933594	-0.1225586	0.06884766	-0.5092773	-0.2075195	-0.2714844
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[6,]	-0.6914062	-0.1342773	0.06933594	-0.5087891	-0.2104492	-0.2680664
[7,]	-0.6909180	-0.1396484	0.06787109	-0.5087891	-0.2119141	-0.2700195
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[9,]	-0.6889648	-0.1518555	0.06591797	-0.5097656	-0.2133789	-0.2734375
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[3,]	0.6806641	-0.3618164	0.1621094	-0.07128906	-0.3383789	-0.3212891
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[3,]	-0.4609375	-0.46972656	0.3012695	0.1201172	-0.5048828	-0.2812500
[4,]	-0.4365234	-0.55175781	0.2939453	0.2294922	-0.5053711	-0.2641602
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[3,]	-0.07373047	-0.6762695	0.10791016	-0.6635742	-0.1699219	-0.2036133
[4,]	-0.08349609	-0.6835938	0.10498047	-0.6606445	-0.1665039	-0.2094727

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[3,]	-0.3051758	0.01513672	-0.3188477	-1.175293	-0.2944336	1.6743164
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[3,]	-0.6826172	-0.2348633	0.007812500	0.07324219	-0.4941406	0.002929688
[4,]	-0.6557617	-0.2270508	0.007324219	0.08349609	-0.4902344	-0.166992188
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[8,]	-0.6528320	-0.1816406	-0.1782227	-1.0942383	-0.3408203	-0.1279297
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[3,]	0.12890625	-0.7290039	-0.3076172	-0.2744141	0.07128906	-0.8803711
[4,]	0.25146484	-0.7338867	-0.3041992	-0.2309570	0.23632812	-0.8730469
[5,]	0.24804688	-0.7338867	-0.3037109	-0.2128906	0.21337891	-0.8691406

[6,]	0.24462891	-0.7338867	-0.3027344	-0.2119141	0.20703125	-0.8681641	
[7,]	0.24072266	-0.7348633	-0.3017578	-0.2119141	0.20068359	-0.8671875	
[8,]	0.23583984	-0.7363281	-0.3017578	-0.2109375	0.19433594	-0.8671875	
[9,]	0.23291016	-0.7368164	-0.3022461	-0.2104492	0.18847656	-0.8666992	
[10,]	0.22851562	-0.7373047	-0.3012695	-0.2104492	0.18261719	-0.8657227	
	[,5517]	[,5518]	[,5519]	[,5520]	[,5521]	[,5522]	
[1,]	-0.5439453	-0.3154297	-0.4995117	-0.6708984	-0.6518555	0.7656250	
[2,]	-0.6201172	-0.2875977	-0.4658203	-0.6577148	-0.8852539	0.6210938	
[3,]	-0.6323242	-0.2607422	-0.5151367	-0.6616211	-0.9233398	0.7099609	
[4,]	-0.6230469	-0.1953125	-0.5151367	-0.6596680	-0.9399414	0.6928711	
[5,]	-0.6215820	-0.1953125	-0.5136719	-0.6586914	-0.9370117	0.6879883	
[6,]	-0.6220703	-0.1962891	-0.5131836	-0.6577148	-0.9365234	0.6870117	
[7,]	-0.6230469	-0.1967773	-0.5131836	-0.6582031	-0.9360352	0.6860352	
[8,]	-0.6245117	-0.1982422	-0.5141602	-0.6586914	-0.9360352	0.6840820	
[9,]	-0.6245117	-0.1992188	-0.5141602	-0.6582031	-0.9350586	0.6831055	
[10,]	-0.6254883	-0.2001953	-0.5141602	-0.6586914	-0.9345703	0.6811523	
	[,5523]	[,5524]	[,5525]	[,5526]	[,5527]	[,5528]	
[1,]	-0.5244141	-0.4760742	0.1318359	-0.4169922	-0.5151367	-0.5439453	
[2,]	-0.4277344	-0.5200195	-0.4843750	-0.6879883	-0.5371094	-0.5903320	
[3,]	-0.3989258	-0.4135742	-0.4301758	-0.7050781	-0.5400391	-0.5795898	
[4,]	-0.3286133	-0.4208984	-0.5214844	-0.6982422	-0.4746094	-0.5703125	
[5,]	-0.3320312	-0.4233398	-0.5117188	-0.6967773	-0.4746094	-0.5678711	
[6,]	-0.3334961	-0.4233398	-0.5097656	-0.6953125	-0.4741211	-0.5668945	
[7,]	-0.3334961	-0.4233398	-0.5083008	-0.6948242	-0.4746094	-0.5659180	
[8,]	-0.3349609	-0.4248047	-0.5068359	-0.6948242	-0.4755859	-0.5659180	
[9,]	-0.3354492	-0.4252930	-0.5053711	-0.6943359	-0.4760742	-0.5659180	
[10,]	-0.3359375	-0.4252930	-0.5043945	-0.6938477	-0.4765625	-0.5654297	
	[,5529]	[,5530]	[,5531]	[,5532]	[,5533]	[,5534]	[,5535]
[1,]	-0.5214844	0.8613281	-0.1821289	-0.4169922	0.6147461	2.404785	0.8066406
[2,]	-0.5126953	0.8676758	-0.1840820	-0.2739258	0.4926758	2.142578	1.1298828
[3,]	-0.4951172	0.8198242	-0.1440430	-0.4423828	0.4609375	1.682617	1.2197266
[4,]	-0.4980469	0.8007812	-0.1230469	-0.4282227	0.4492188	1.736816	1.2607422
[5,]	-0.4985352	0.7954102	-0.1162109	-0.4208984	0.4448242	1.755371	1.2749023
[6,]	-0.4990234	0.7949219	-0.1152344	-0.4204102	0.4438477	1.750000	1.2714844
[7,]	-0.4990234	0.7934570	-0.1152344	-0.4199219	0.4433594	1.744141	1.2690430
[8,]	-0.5000000	0.7910156	-0.1157227	-0.4204102	0.4423828	1.737793	1.2651367
[9,]	-0.4990234	0.7905273	-0.1152344	-0.4194336	0.4414062	1.731934	1.2617188
[10,]	-0.5000000	0.7890625	-0.1152344	-0.4199219	0.4399414	1.725586	1.2587891
	[,5536]	[,5537]	[,5538]	[,5539]	[,5540]	[,5541]	
[1,]	-0.4960938	-0.5097656	5.114746	-0.3574219	0.3242188	-0.3457031	
[2,]	-0.4707031	-0.5336914	-1.045898	-0.2929688	-0.5800781	-0.4311523	
[3,]	-0.4394531	-0.4023438	-1.058105	-0.3627930	-0.5639648	-0.4536133	
[4,]	-0.4248047	-0.4116211	-1.019043	-0.3554688	-0.6108398	-0.4599609	

[4,]	-0.7324219	-0.3906250	1.4443359	-0.8574219	-1.354492	-1.129883	-1.194336
[5,]	-0.7158203	-0.3974609	1.4238281	-0.8544922	-1.345703	-1.119629	-1.198730
[6,]	-0.7133789	-0.4003906	1.4082031	-0.8525391	-1.343262	-1.116211	-1.198730
[7,]	-0.7099609	-0.4033203	1.3940430	-0.8510742	-1.341797	-1.114258	-1.198730
[8,]	-0.7084961	-0.4067383	1.3779297	-0.8496094	-1.340332	-1.112305	-1.199219
[9,]	-0.7065430	-0.4091797	1.3637695	-0.8481445	-1.337891	-1.109863	-1.199219
[10,]	-0.7050781	-0.4130859	1.3496094	-0.8466797	-1.336426	-1.107910	-1.199707
	[,5567]	[,5568]	[,5569]	[,5570]	[,5571]	[,5572]	
[1,]	-0.9863281	-1.495605	-1.1435547	-0.2358398	-0.2041016	0.02929688	
[2,]	-1.1083984	-1.481445	-1.1035156	-0.4111328	-0.1757812	0.11035156	
[3,]	-1.0512695	-1.481934	-0.9492188	-0.3339844	-0.1699219	0.12792969	
[4,]	-1.0590820	-1.480469	-0.9511719	-0.4086914	-0.1665039	0.13964844	
[5,]	-0.9526367	-1.479492	-0.9731445	-0.3354492	-0.1645508	0.14355469	
[6,]	-0.9541016	-1.479004	-0.9755859	-0.3374023	-0.1640625	0.14306641	
[7,]	-0.9560547	-1.479004	-0.9794922	-0.3393555	-0.1635742	0.14355469	
[8,]	-0.9589844	-1.479492	-0.9833984	-0.3417969	-0.1650391	0.14208984	
[9,]	-0.9594727	-1.479492	-0.9858398	-0.3432617	-0.1650391	0.14208984	
[10,]	-0.9619141	-1.480469	-0.9892578	-0.3461914	-0.1655273	0.14160156	
	[,5573]	[,5574]	[,5575]	[,5576]	[,5577]	[,5578]	
[1,]	-0.04882812	0.8911133	0.8608398	-0.7734375	-0.01708984	-0.5000000	
[2,]	-0.05468750	1.0673828	1.4033203	-0.7758789	1.00048828	-0.4960938	
[3,]	-0.06054688	1.0146484	1.3364258	-0.7324219	1.03173828	-0.4741211	
[4,]	-0.06005859	0.9941406	1.3115234	-0.7363281	0.98876953	-0.4785156	
[5,]	-0.06054688	0.9853516	1.3022461	-0.7392578	1.14746094	-0.4794922	
[6,]	-0.06005859	0.9794922	1.2978516	-0.7402344	1.13525391	-0.4799805	
[7,]	-0.06005859	0.9726562	1.2934570	-0.7407227	1.12255859	-0.4804688	
[8,]	-0.06054688	0.9658203	1.2885742	-0.7426758	1.10888672	-0.4814453	
[9,]	-0.06054688	0.9594727	1.2846680	-0.7431641	1.09716797	-0.4814453	
[10,]	-0.06103516	0.9531250	1.2788086	-0.7441406	1.08496094	-0.4824219	
	[,5579]	[,5580]	[,5581]	[,5582]	[,5583]	[,5584]	
[1,]	-0.1899414	-0.7636719	-0.1118164	0.07519531	-0.3383789	-0.3305664	
[2,]	0.1484375	-0.8183594	1.3735352	0.14111328	-0.3276367	-0.2656250	
[3,]	0.2084961	-0.7416992	1.4985352	0.12548828	-0.3354492	-0.4091797	
[4,]	0.1933594	-0.7558594	1.4375000	0.12158203	-0.3344727	-0.4028320	
[5,]	0.1870117	-0.7587891	1.5966797	0.11962891	-0.3339844	-0.4008789	
[6,]	0.1840820	-0.7597656	1.5800781	0.11767578	-0.3339844	-0.3994141	
[7,]	0.1821289	-0.7617188	1.5639648	0.11572266	-0.3339844	-0.3994141	
[8,]	0.1772461	-0.7641602	1.5478516	0.11328125	-0.3344727	-0.3999023	
[9,]	0.1748047	-0.7651367	1.5317383	0.11230469	-0.3344727	-0.3994141	
[10,]	0.1708984	-0.7675781	1.5156250	0.10986328	-0.3344727	-0.3994141	
	[,5585]	[,5586]	[,5587]	[,5588]	[,5589]	[,5590]	[,5591]
[1,]	-1.640137	-0.4702148	-1.065430	-1.318848	2.735840	0.008300781	-0.7104492
[2,]	-1.645508	-0.5136719	-1.143555	-1.437500	2.120117	0.103027344	-0.6308594

```

[3,] -1.626953 -0.5249023 -1.307129 -1.440918 2.321777 0.081542969 -0.6064453
[4,] -1.626465 -0.5268555 -1.311035 -1.438477 2.231934 0.130371094 -0.5937500
[5,] -1.622070 -0.5268555 -1.310547 -1.438477 2.201660 0.148437500 -0.5898438
[6,] -1.622070 -0.5273438 -1.309082 -1.437988 2.186523 0.147460938 -0.5898438
[7,] -1.623047 -0.5268555 -1.309082 -1.437988 2.172363 0.146972656 -0.5898438
[8,] -1.624512 -0.5278320 -1.309570 -1.437988 2.157715 0.144042969 -0.5903320
[9,] -1.624023 -0.5273438 -1.308594 -1.438477 2.144043 0.142578125 -0.5903320
[10,] -1.625000 -0.5278320 -1.308594 -1.438477 2.129883 0.141113281 -0.5908203
      [,5592] [,5593]
[1,] -0.3637695 -1.488770
[2,] -0.2573242 -2.019043
[3,] -0.2285156 -1.991699
[4,] -0.2153320 -2.035645
[5,] -0.2104492 -2.000000
[6,] -0.2104492 -1.997070
[7,] -0.2114258 -1.994629
[8,] -0.2124023 -1.993164
[9,] -0.2128906 -1.991211
[10,] -0.2143555 -1.989746

```

```

# the CSs fo the first 3 are singletons,
# while the CS for th 4th component has 10 gene sets
purrr::map_int(cs, ~length(.x$cs))

```

```

[1] 1 1 1 10 4783 4786 4788 4790 4792 4793

```

```

# the PIP of the top SNP in each CS
purrr::map_dbl(cs, ~.x$alpha[1])

```

```

[1] 1.000000000 1.000000000 0.999664366 0.767335176 0.012049827 0.010503333
[7] 0.009337636 0.008434772 0.007704303 0.007101273

```

```

# check if the top snp is causal
purrr::map_int(cs, ~.x$cs[1]) %in% idx

```

```

[1] TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE

```

We can see that each of the singleton CSs identify on of the “active” gene sets. The 4th CS captures one of the two remaining effects. The SNP with the top PIP is the causal SNP. The CSs corresponding to the other effects (L5-L10) are very large, containing thousands of GSs,

and the maximum PIP is small (< 0.1). We also see the the log BF for the SER, which quantifies the evidence for any one SNP having an effect over the global null favor the null hypothesis.

```
# check which CSs include which of the causal variables
incidence <- do.call(rbind, purrr::map(1:10, ~as.integer(idx %in% cs[[.x]]$cs)))
rownames(incidence) <- paste0('L', 1:nrow(incidence))
colnames(incidence) <- paste0('GS', 1:ncol(incidence))
incidence
```

	GS1	GS2	GS3	GS4	GS5
L1	0	0	0	0	1
L2	1	0	0	0	0
L3	0	1	0	0	0
L4	0	0	0	1	0
L5	0	0	1	1	0
L6	0	0	1	1	0
L7	0	0	1	1	0
L8	0	0	1	1	0
L9	0	0	1	1	0
L10	0	0	1	1	0

We compare the results against a marginal (on GS at a time) analysis, which is typical for GSEA. The most direct comparison would be to the Bayesian logistic regression with fixed prior variance.

The GS discovered in L1-3 correspond to the three strongest marginal effects. However, we see that the GS captures in L4 has the 16th strongest marginal effect. We see that the causal GS that is not discovered in our analysis has the 144th strongest association, and a log BF of ≈ 2.77 , corresponding to a BF of ≈ 16 . Jeffreys proposed a threshold of 10 for “strong” evidence, while Kass and Raftery later propose a threshold of 20, so we will call this “moderately-strong” evidence of association. However, due to the multiple testing burden we judge it appropriate that this effect was not reported.

```
library(dplyr)
```

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

```
filter, lag
```

The following objects are masked from 'package:base':

intersect, setdiff, setequal, union

```
marginal_analysis <- tibble::tibble(  
  GS = colnames(c2$X),  
  i = 1:ncol(c2$X),  
  lbf=serfit$lbf[1,],  
  effect=serfit$effect[1,]  
)
```

```
marginal_analysis %>%  
  mutate(causal = i %in% idx) %>%  
  arrange(desc(lbf)) %>%  
  mutate(rank = 1:n()) %>%  
  filter(causal)
```

```
# A tibble: 5 x 6  
  GS      i    lbf effect causal  rank  
  <chr> <int> <dbl> <dbl> <lgl> <int>  
1 M8520  4347 146.    2.14 TRUE     1  
2 M2526   458  35.5    1.87 TRUE     2  
3 M847    487  20.9    2.24 TRUE     3  
4 M1092  3179  11.2    2.51 TRUE    16  
5 M4085  1661   2.77    1.26 TRUE   144
```

Which causal gene sets are driving the association of the 4-15th top marginal gene sets? They all have substantial overlap with M8520, the top marginal enrichment.

```
middle_gene_sets <- marginal_analysis %>%  
  mutate(causal = i %in% idx) %>%  
  arrange(desc(lbf)) %>%  
  mutate(ran = 1:n()) %>%  
  head(15) %>% tail(12) %>%  
  {.$i}
```

```
Matrix::t(c2$X[,middle_gene_sets]) %*% (c2$X[, idx])
```

```
12 x 5 sparse Matrix of class "dgCMatrix"  
      M2526 M847 M4085 M1092 M8520  
M16010      3      2      1      .    121
```

M2066	.	2	.	.	30
M15664	.	1	.	.	97
M18506	.	4	1	.	58
M1037	.	1	.	.	43
M34027	.	.	1	.	75
M2368	5	7	1	.	154
M5198	.	1	.	.	56
M3766	.	1	.	.	93
M2608	.	2	.	.	65
M7357	1	1	2	.	50
M10739	.	2	.	.	45

In this simulation, although the causal gene set are for genes upregulated in non-small cell lung cancers, we see that there are gene sets associated with immune response, cell cycle, and a host of other cancers. The data show overwhelming support for the top effect. Conditional on the first effect, the other gene sets are no longer predictive of inclusion in the list of genes provided. However, the extremely strong marginal enrichments in these other gene sets and cancer types would obscure this result.

```
marginal_analysis %>%
  arrange(desc(lbf)) %>%
  head(15) %>%
  rename(geneSet = GS) %>%
  left_join(select(c2$geneSetDes, c(geneSet, description))) %>%
  select(c(geneSet, description, lbf))
```

Joining with `by = join_by(geneSet)`

```
# A tibble: 15 x 3
  geneSet description                                lbf
  <chr>    <chr>                                <dbl>
1 M8520    Cluster 6 of method A: up-regulation of these genes in patient~ 146.
2 M2526    Genes representing a co-expression network in atopic CD4 [Gene~ 35.5
3 M847     Genes up-regulated in group C of tumors arising from overexpre~ 20.9
4 M16010   Genes down-regulated in H1975 cells (non-small cell lung cance~ 19.0
5 M2066    A list of known cell cycle regulated genes that was compiled f~ 18.3
6 M15664   The 'Cervical Cancer Proliferation Cluster' (CCPC): genes whos~ 17.4
7 M18506   Genes down-regulated in the ANBL-6 cell line (multiple myeloma~ 16.2
8 M1037    Genes up-regulated in gastric cancer cell lines: doxorubicin [~ 15.1
9 M34027   Genes down-regulated on infection of normal human bronchial ep~ 14.7
10 M2368   Genes up-regulated during later stage of differentiation of Ol~ 12.7
```

11	M5198	Genes down-regulated in quiescent vs dividing CD34+ [GeneID=88~	12.6
12	M3766	Up-regulated genes whose expression correlated with histologic~	12.5
13	M2608	Cell cycle genes significantly (p =< 0.05) changed in fibrobla~	12.3
14	M7357	Genes up-regulated at early stages of progenitor T lymphocyte ~	12.0
15	M10739	Genes down-regulated in ANBL-6 cell line (multiple myeloma, MM~	11.4

2 Summary

In summary, this book has no content whatsoever.

1 + 1