Upper Cholesky root:

sigma			
25	-15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

	n
Simulation: n =	1000

mu, sample mean:

sigma, sample covariance:

sigma			
25	-15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

Upper Cholesky root:

U			
5.0	3.0	3.0	4.6
0.0	7.1	4.9	3.1
0.0	0.0	5.3	0.7
0.0	0.0	0.0	7.3

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

UtU			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

	n
Simulation: n =	1000

mu, sample mean:

mu	ybar
26	26.290783
25	25.40372
24	24.555257
24	24.478302

sigma, sample covariance:

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

s			
25.319332	15.919409	16.555618	23.988471
15.919409	60.80174	45.206247	39.424447
16.555618	45.206247	62.317727	35.998261
23.988471	39.424447	35.998261	85.603987

z			
1.6879289	2.579416	-5.936682	3.4178434
-0.796633	5.7358371	-3.986338	5.6995348
10.118478	6.4156206	1.6905678	18.425495
-0.561029	8.6440503	1.4385378	-1.454126
5.6419014	7.0536576	1.2485309	0.4051301
2.1543303	8.3593659	9.0883228	9.2656892
2.7195522	2.1619354	4.4665281	12.872421
-4.4639	10.110503	-6.215981	8.0639047
-6.264263	-0.087868	0.3340212	-13.93692
5.3420945	-9.489487	-5.433314	-5.430415
0.0910702	4.8125524	-2.445507	6.1196686
-2.809376	-3.307319	1.1210261	-12.91181
-3.532808	4.8686587	-6.732848	-9.882391
-2.375402	-0.933474	-8.040881	-12.6552
-5.520939	5.929977	-1.322257	-1.389528
2.5329614	4.1765667	3.2641672	1.3787971
8.0906691	8.1934591	8.8242135	1.455762
-3.061294	-3.355038	6.3476903	-9.793735
9.3536743	7.9596404	-5.821786	13.976031
-13.07724	-12.78123	-6.072813	-10.0422
3.4683874	8.430128	9.4251126	1.776859
4.2569862	-12.82945	-8.463609	-12.42914
0.3417094	11.451188	13.173548	13.908645
-1.442362	-6.670644	-14.54443	-3.733088
-4.340592	2.8305404	4.6254692	-0.263907
3.9473232	-6.481813	-7.052541	1.8535494
-0.99541	-6.037335	7.6724369	1.0258751
5.9578665	11.970614	14.572569	12.946035
-4.693852	-2.924473	-7.488743	-5.533143
7.2841728	9.8877146	-0.613444	5.1092604
-2.641246	-12.97319	-3.612196	-24.8914
-6.435081	-6.651517	-11.6166	1.4921578
-2.613338	-10.04402	-5.17764	-4.866806
2.9075383	5.4084839	0.9428492	7.0066066
0.9319242	-11.68992	-1.55317	1.8226687
4.6557059	-6.296618	-6.828196	-1.268096
8.274324	2.2322712	-9.269952	7.3250463
5.4789185	-5.292866	4.9819865	9.5983095

z			
-6.95424	10.336164	3.3117258	10.65973
-2.356377	2.3517928	10.391225	-4.596588
-3.603657	1.2558837	4.7400885	7.2054353
0.2788805	3.1425517	-0.417006	4.6882011
10.378081	-4.79498	10.883748	5.4674577
-3.823775	-9.700704	-4.210845	-9.523612
5.2019075	4.3102133	-0.681249	15.871233
1.3073687	7.7302946	10.674534	13.477696
-3.963972	-2.718905	6.1223768	-10.27541
-0.060946	-2.200649	1.115017	-10.93203
-4.279944	-0.132816	-11.60505	-10.09026
2.8079297	-4.471647	1.1165008	17.086174
-3.232816	-3.195926	-18.56989	-0.02006
0.6086292	-3.911201	-3.377941	-16.3251
3.2534842	8.2734883	11.877807	10.703162
-7.364346	-6.039303	-4.873548	-2.57246
4.3133632	9.6763856	8.01376	8.0265448
0.7051083	1.7366982	-6.38255	13.175573
-1.791299	4.4470386	6.3619828	-1.42668
-4.484196	6.2999095	16.286822	9.7177531
5.5117089	-0.210699	8.2668203	2.8569143
2.156398	-1.239109	-3.293015	-8.101581
1.9960331	-0.435428	0.751338	10.123446
-4.57965	-0.839159	0.0719761	0.8208575
5.4861661	6.2864007	-5.121839	8.1318172
-0.323076	7.5263964	0.2997212	8.1711587
3.9033207	-0.290794	-1.488606	20.617801
4.1782897	-8.443146	-8.222661	9.4284787
-5.058808	8.7209934	8.3018535	1.127493
-11.49843	0.4120054	1.9582582	-4.84028
7.7006622	6.6628107	-1.453039	26.03984
-0.535814	6.9940916	9.3358957	6.7908023
-9.13169	-6.587681	-10.81238	-14.24237
-3.212645	-5.137268	-1.617573	12.449146
-1.564387	6.7044098	8.3012846	-4.389875
-1.3006	-7.095715	-3.347693	-0.97079
-0.736735	4.3375671	-5.71684	14.773437
4.3008797	-3.405292	0.9565074	4.2122793

z			
-2.155412	-3.208164	-10.9473	-10.57307
0.3956736	-12.1739	-5.092378	-8.036674
-1.876936	-1.268965	-1.489895	8.8871837
8.519344	-2.892405	-2.268393	4.5615271
-2.339318	-4.649478	-0.77974	-5.883746
1.0313616	16.598848	14.236466	-5.637395
6.0383777	13.752562	9.7167577	5.2571104
10.704897	13.759521	11.26415	4.2198235
-4.52045	-7.100483	-13.19266	-7.881155
8.129139	7.7167751	10.010362	16.468481
1.0767711	10.149507	4.6338149	-6.133637
-0.612211	4.509723	11.536419	20.664262
-5.90811	-21.25505	-11.42201	-14.77282
-1.541456	5.1729003	-1.764205	6.4255144
8.4686313	6.0606096	1.7208173	14.137272
2.7801708	7.1836375	-1.412284	2.7928192
0.1128769	-1.424606	0.9575439	-22.22673
-4.253102	-15.84498	-13.23784	-8.248895
-0.547877	-5.680123	4.1482704	-10.54141
8.8319662	5.6226558	11.462603	6.302517
2.4305281	-6.912947	5.1864198	-1.107798
-8.345588	-6.008797	-0.740994	-5.010301
-0.477445	5.5033305	4.5125081	2.5962143
5.1211692	12.086576	12.888929	3.7653018
-5.774828	0.7308476	0.2919095	-6.293899
0.5619641	-2.304861	2.4352031	1.7574734
8.7482232	10.97597	5.1928745	14.035206
-2.390153	-5.711335	-3.647561	-3.574427
4.8704548	8.5928784	3.0989958	-3.112926
7.5329998	-2.150553	-0.5978	7.6975294
7.2780279	13.895103	15.906132	3.6406696
0.9376914	-2.034485	-5.057728	-5.487882
-3.221049	8.3560649	3.6691882	5.3326772
5.1611689	-7.653116	-0.954777	-3.748157
-2.853424	-10.32155	-1.274654	-16.4894
3.8198038	2.3270136	1.6103598	14.7774
-1.923361	-3.486098	-0.63292	-2.236216
-14.61491	-17.13791	-15.27974	-26.2394

z			
-1.57439	3.4335874	5.8692359	0.9715588
-1.678131	3.4601672	3.292389	2.6305664
14.458829	13.816335	12.668055	23.870382
4.6763415	8.4673175	6.4145892	3.0763093
-0.731744	5.2024855	13.334126	-3.190903
1.7378822	7.3696331	10.253362	4.3776883
4.3624158	10.069009	6.5233239	13.286222
-3.611792	-9.435184	-15.84164	-12.9611
-0.085364	-0.630405	2.4575308	-8.162418
4.9418389	-3.383287	-9.739758	-1.969834
-6.05077	3.6519167	-4.606306	-7.336345
-6.252152	-5.894299	-9.870233	-7.568359
6.9600049	5.1588845	6.5820163	8.5296629
-5.714988	-4.691839	-6.586098	2.9891598
4.2559141	10.7711	10.214344	16.085841
-2.558805	-0.236993	-2.073225	-3.424842
6.0483955	1.1937543	4.3401838	-3.398829
1.5859181	2.1113617	5.1606262	6.1515356
0.5900893	-1.769347	-1.395434	-5.816768
4.8317482	-8.43221	-3.151062	-0.932599
-3.528895	-3.192546	9.8497044	-8.096598
2.0604627	2.817073	11.693738	2.6700189
4.3662849	0.5138734	3.08015	10.059369
-3.704994	-1.889406	8.7475475	-5.047387
-1.130715	1.6185623	2.3889394	-1.867993
3.192324	-4.422325	-0.723919	-10.60971
-0.056193	1.6811479	-5.671662	3.4953091
-6.184084	-9.427905	-5.242162	-5.717408
6.5224109	12.401823	14.308462	2.4646467
4.8716253	3.3441106	3.2910874	-1.919012
5.7738618	0.4825293	-3.363818	3.2462206
5.4128467	4.3995545	2.5523522	0.3284401
4.7413902	7.8224167	5.9781718	12.557171
2.1844347	-6.637417	-9.557357	7.8695746
-3.003361	-7.908483	3.6332915	-5.619465
0.3326955	-2.353131	3.2690018	-1.648022
-5.214675	-8.602075	-16.32798	-17.61616
-0.368668	-8.168174	0.1817771	-18.44464

z			
-6.143561	-2.610464	-11.40411	-2.609598
-3.012857	-1.027839	-2.683099	-6.119386
-0.372224	-3.736574	2.8320982	5.5776233
1.4404639	10.609673	4.2673717	-3.446834
1.7471697	-20.97146	-16.24077	-12.02903
0.4183828	5.1855735	2.771813	-0.243861
5.4194213	0.178511	0.92096	7.42998
-5.880344	-5.36632	-2.667103	-10.70817
1.0918816	-5.582592	-0.107838	-6.866898
-4.052916	4.4698837	4.6220251	-3.060512
0.2560022	-9.350484	-3.384054	8.3229275
5.0762193	7.7783903	12.653478	16.60115
7.3866816	12.695521	12.350951	12.447246
3.6999102	11.503136	10.238086	5.7354697
6.0016836	-12.63239	-6.186443	-11.69983
-4.145128	2.0971705	-7.424627	-5.371847
-6.73974	-4.323065	-7.96142	-6.720318
6.6440462	-1.593778	-0.06086	8.4079698
-2.492108	-0.210472	-1.063104	6.8410086
-4.161393	-11.77893	-3.32241	-13.14973
-4.745403	-2.640741	1.888651	-0.72121
2.93052	6.1191228	0.4420261	19.995879
1.3554174	-0.398263	16.131567	-3.291071
3.7259346	9.0653479	7.7786833	10.465119
-5.45134	-2.043653	-1.750316	3.5848763
2.3902164	-4.638511	-13.19403	9.2606783
1.899742	-7.061404	-13.36334	-2.285554
-0.171979	3.7308812	-1.206075	1.3182071
5.0609499	-0.201938	-4.093422	5.9757493
-4.779484	0.1137725	-1.919718	12.957924
-0.74851	10.78457	10.695802	4.0513241
-11.0617	-11.37343	-7.175957	-5.5071
-4.679634	-6.827478	-13.45367	-10.75134
-1.742754	8.5526613	3.0580328	-4.35579
-1.963193	-10.13573	-1.124524	-8.726975
3.8852162	20.485411	16.860442	20.101251
-1.197432	4.8653901	10.685551	-0.942733
-1.043515	12.192236	1.784631	-0.751821

z			
3.1056944	0.3348729	-4.91674	8.147219
12.740759	13.299094	9.6262458	10.436633
-5.552922	2.7008011	-3.320478	-0.159504
3.1229439	0.0818088	-0.164214	-10.15152
-0.141252	-2.271354	-0.621954	-3.313606
0.1472378	7.9785348	2.7914189	-4.993909
-0.015399	0.8240349	-1.949231	-5.365502
-0.225684	-4.780296	0.6258968	-0.917074
3.6972523	8.1235002	15.175969	8.707025
2.0007996	9.404301	0.7273733	3.0440606
2.6407991	2.6190987	6.211079	5.8170773
1.7284698	-4.341379	7.260477	2.3367124
-4.94683	-0.047995	-4.124415	-5.945674
2.3938006	3.7809081	0.1190623	9.8296423
-2.558037	-14.14126	-9.087353	-14.25273
4.4714701	5.4793006	13.219962	21.604141
4.9040116	2.1253121	1.2649359	7.3201938
0.3179662	-7.420064	0.8072866	5.215726
0.8567848	5.8491912	15.751999	-4.226482
-0.319886	-6.404803	-12.95931	-13.65041
-3.952044	5.6558237	10.663125	-2.406146
-8.498747	1.7350762	5.7288673	-6.544809
1.520112	-7.335987	-3.957013	10.71327
3.0153799	-2.164685	5.5604898	-3.387362
0.2249794	-5.251988	-8.176751	-14.35647
0.8834296	2.6981793	-0.386845	5.6419207
2.3049	13.62256	15.915487	11.372343
4.5543191	13.907607	10.417493	14.468323
-2.22174	-2.912704	-2.470617	-7.485707
-19.29112	-6.937595	-11.796	-5.965461
-2.212271	-7.956469	-8.029928	-9.232647
-1.485281	-2.577505	1.9470874	-8.374438
8.1845961	3.3292726	-3.368769	11.059672
6.0302611	7.8758695	16.189211	13.487156
3.3557232	-3.223218	-1.723048	4.8829676
-5.639036	-4.710551	-7.233264	-2.997565
1.1352436	11.277898	6.3433186	7.2682975
-7.135774	-2.708077	-6.056971	-1.138611

z			
-4.286542	1.0949963	-7.865466	2.0038036
1.1401149	4.0577535	7.9944168	8.9094864
4.5661608	-2.816747	4.1956371	-12.6912
-4.504272	-3.982942	1.0448697	-10.75445
-3.408268	6.8887421	-6.68772	-5.529631
-7.110585	-3.330614	5.5906056	-2.043953
5.7892256	-3.264969	7.3628913	4.8602286
-0.671228	7.3559964	0.3254001	3.3956189
-1.809558	0.7096745	-1.187156	-7.794363
1.0271338	3.412306	5.0311469	-4.146915
-4.179383	-20.49276	-20.37807	-3.053151
10.222799	9.6166495	11.453359	10.555162
1.8626856	-7.614825	-2.029695	7.3050833
8.2177279	14.311621	11.901358	-2.790696
2.9048051	-10.65375	-1.21803	3.2170085
6.2262332	13.502078	14.830269	5.9715984
-0.647774	-11.62587	-7.737112	-7.207247
-1.085583	7.657324	7.5790139	3.1983077
-6.917478	-0.162755	-9.011606	-7.310714
-12.83941	-4.300568	1.1531078	-5.607542
6.9308787	-1.241185	8.5067032	12.965927
9.2690656	-5.967296	-0.765127	16.734272
-1.068837	9.1604487	12.307292	7.59588
2.0909564	-2.394016	-2.126023	-1.19489
-0.846843	6.3972692	8.7097032	1.8764576
-4.414302	2.5661978	0.1356333	2.0847553
-0.153255	-1.242559	6.4035775	0.9668613
4.2423021	11.541947	11.96054	-0.315826
-0.370107	4.3901207	6.5514624	-3.584144
1.9758731	-1.398305	-1.951129	5.6560625
-1.622137	16.648202	18.009152	6.1178646
-2.199722	5.4303205	5.940764	-2.246546
-5.035181	-10.64384	-15.95722	-19.98489
2.7370337	0.3741124	8.6486159	5.7122988
0.7007472	-1.838628	0.7835031	-3.685812
5.554016	3.0123602	11.735797	10.03696
-8.376982	-16.78009	-17.35976	-8.842812
3.3480567	17.466981	17.768897	15.88183

z			
2.8581887	-2.986756	6.8741468	-8.587869
2.9535195	-1.519421	-7.340736	9.2658069
-5.548136	4.5154546	-2.580179	-1.337279
-0.234858	-6.009252	-12.73301	-5.310966
5.1347916	-4.962367	-2.116542	4.4579485
-0.222333	-4.413805	-1.124839	7.834854
-0.516282	12.25179	3.6613071	11.978637
-4.457102	1.431606	8.4039377	9.5865412
-2.591003	-8.009011	-6.761732	0.8540197
2.7818779	-1.766419	-7.950234	-8.605205
-6.504795	23.599838	22.1809	14.512671
-2.717036	-9.15143	0.3135966	-6.644698
5.7331528	7.5940441	4.1442182	-7.379209
-2.746157	-4.025926	-11.21351	-0.86423
-6.21314	-15.68999	-14.74994	-2.880109
3.4114543	9.7556582	10.39433	8.4378685
-5.362445	-9.079539	-5.423857	-10.6005
1.7643627	-2.355233	-1.962033	-6.97272
-2.006755	3.2082597	-3.381942	5.2944856
0.3036318	-2.667848	-5.583772	8.4403225
-8.220039	-0.43132	3.7914613	-7.736093
4.5028137	0.5181698	3.7151038	10.113522
-1.91387	9.7279075	14.943214	13.321339
5.9479858	10.320237	3.9797534	17.201223
1.7928179	1.2003379	-1.419076	4.1024372
3.8103697	-5.247173	1.5875979	0.4261682
-3.478518	-2.621904	4.8350566	-2.428748
4.5649714	-3.208855	-10.17763	0.5953675
-1.901386	-6.768375	-2.304212	-1.974409
9.4796819	4.5781482	5.2104064	7.9744389
8.0003913	14.088208	7.8040322	25.863558
-1.698443	16.202645	8.8616506	-1.807872
4.4088563	1.3476376	3.7895394	2.8685613
3.1307555	-10.13893	-8.613116	-8.530001
-8.750666	3.3426248	3.5991795	-7.675986
9.1432098	11.587042	6.3263812	6.9784136
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2.3871227	5.7647315	-3.097507	9.3338364

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1.7759977	-7.741667	-8.357663	0.7476991
3.7029152	-1.179994	5.4160408	1.3533206
-5.616067	-9.345513	-4.020587	-7.013841
2.2103624	13.742362	7.7799902	16.737933
10.376856	9.9739376	3.8187885	-2.495194
3.259592	-12.82869	-4.114962	-2.700076
-5.130512	-0.628017	3.3619829	-13.34149
7.2966481	6.5465878	2.8273031	13.245314
7.3307961	6.2373598	0.3185366	-5.288991
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-10.64191	-11.7749	-21.46417	-8.102519
13.623891	7.1689521	2.1823749	11.241757
-10.35984	-10.3014	2.5349948	-7.842845
10.857233	24.435267	24.795947	15.752103
7.7317644	4.8869111	6.5040811	2.2942476
10.867632	11.274288	12.037318	17.50777
4.4978019	6.2506657	3.6854793	0.4429022
-4.234713	-9.017536	5.0448523	-10.25703
1.723	21.123977	10.944362	29.943614
1.6607833	6.9728835	-2.314969	4.0782077
1.9974893	-11.73614	-6.570691	-4.051806
-6.147336	0.9871291	5.6255151	-2.091105
4.3209246	-10.19078	-9.172896	-10.64308
4.6042383	-3.523807	3.413236	-1.874588
-0.006548	13.330225	3.6046732	14.471004
-10.74556	-13.86019	-20.48054	-27.80568
-4.99022	10.699677	2.7809123	10.790486
6.6589403	8.3027556	10.636006	2.4073415
-2.619896	-5.002476	-1.678371	-2.249073
-6.196375	-3.23452	-1.111313	-7.399993
-0.041637	-4.52391	0.8010406	-11.7656
14.883165	4.9300156	1.0029763	7.1255732
-5.256358	-3.477428	-0.950953	-4.82704
1.8205292	-0.320232	-11.27953	-6.834332
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-10.0409	-6.241656	-1.266334	-19.62431
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4.1041335	3.7864159	-2.87007	3.7825164
-1.089412	-5.408629	2.1012164	4.2095328
-3.612661	-5.58901	-0.425668	-0.048833
-2.01578	0.2161043	-0.183328	8.029343
-5.446832	-1.291107	1.1877848	-4.223255
5.855279	7.949276	3.6857809	9.097815
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3.5688105	9.6677831	8.0910776	3.2666568
3.149336	17.686833	15.890091	12.932332
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1.8580189	3.0427319	15.395911	9.6935847
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1.4379964	-1.866231	11.697628	4.8781722
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10.936914	7.7173132	10.69082	9.404196
4.0571526	15.763109	6.321429	11.010822
6.2747079	0.5191123	-6.643003	6.347847
-1.661554	-1.072839	0.2353909	-8.61681
0.1577917	-2.677848	-5.511305	3.1199381
0.7380633	-5.426082	-5.932881	-6.801131
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8.5863926	3.4412433	7.4225316	6.30882
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-5.52324	0.0596988	0.1615342	-0.868783
4.3838555	9.1740431	8.624021	-0.141684
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1.7281138	-4.175349	-9.817363	-0.226035
1.4992451	19.985001	15.11029	18.701072
0.1959836	-0.560953	-1.069155	-1.41831
5.6599512	9.5078811	9.7896923	5.8455432
-1.642435	-9.476956	-6.867409	-10.17466
5.7918535	1.3218227	-3.99988	4.1237427
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7.1156886	23.15777	21.997355	11.026471
13.430676	-6.222814	-4.549828	13.255084
-3.485544	-3.220279	3.1255777	3.6320649
7.2249818	9.9201246	7.7808787	13.629896
9.6777782	4.370439	19.171879	18.148032
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4.7743418	-3.051106	0.4277392	5.4265785
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-2.211992	-2.115455	3.0015345	-2.322527
-3.940201	8.0159146	9.3316117	-7.488296
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5.2586651	-5.442159	-3.357029	-12.26445
4.5817236	8.920093	8.897848	3.5889168
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-8.461095	-2.6056	-4.285853	-9.966285
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1.6823971	-6.09619	4.0263428	1.6609072
3.1709882	4.5610915	12.383851	-2.302106
-1.069833	-7.13344	-6.436069	4.1046863
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-9.820381	-16.31579	-17.07986	-21.57586
5.9878997	-9.453274	-1.761724	15.219055
3.1883254	-7.947299	-11.96947	-0.376088
-8.535395	-11.89723	-7.307784	-1.430876
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4.6025683	-8.686093	-5.143748	2.0991669
1.6209156	0.1915672	-2.36488	9.3565556
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1.6611733	-5.435632	3.6602944	-0.276688
3.627213	-6.891784	-3.939866	-4.62814
4.7349123	1.8244063	-4.465402	-12.29736
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0.7576167	3.1355134	3.871791	10.705741
1.3152007	10.935867	5.4707629	-1.501663
0.6630197	1.2236508	-2.723135	1.2554959
6.1955215	7.1416859	3.5729523	5.9615248
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1.8993645	-3.338278	-5.560358	-10.98362
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1.0913587	-2.796914	-9.260794	12.652734
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4.650947	-8.086293	-3.235231	-6.758398
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3.7407749	-1.717601	5.7965387	-5.004025
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3.4298397	5.4007169	9.4341624	9.6337907
2.0901073	5.482397	0.9687739	12.14615
3.4223753	3.0108227	7.129384	12.95656
3.8322825	2.1345807	0.1298266	7.3127757
7.6800365	4.4488571	5.5981351	-3.711902
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0.4166935	8.5102872	11.306094	-7.884583
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3.9579378	-4.663679	-3.256001	15.445844
10.233565	12.445667	7.1785373	13.945753
3.4405741	19.353037	26.954983	10.753333
2.8452298	-2.582749	10.828555	-4.4629
5.9180505	2.0207094	2.13059	8.636447
2.9156709	-9.231718	-4.25136	-15.95004
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2.9792912	0.5304573	-1.493326	7.0514068
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1.4385014	-1.990595	3.4909471	0.2483929
9.7848211	-0.350483	-8.306837	18.586537
0.945626	11.611642	10.721006	9.8082743
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2.7346135	-1.972866	1.9409246	-19.46924
1.0748039	5.6413177	0.2530904	1.3160843
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4.4825483	3.5657345	11.385452	8.7450772
0.9047958	7.2534383	13.77053	7.3706464
0.7597434	3.9717807	-1.313718	-4.179246
1.1174139	-0.823012	-3.616734	6.7929448
-4.53551	-2.358686	-5.545353	4.5078111
2.1368247	-6.999872	-4.192411	-2.55184
7.2500145	1.5518306	9.3157924	12.332862
-0.354687	-5.202306	-12.41755	-9.286158
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9.1036691	8.0223631	16.023494	13.737768
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3.2824694	18.982148	19.02182	24.700608
-1.522794	-3.96541	-5.670177	-7.869906
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3.5595044	3.8919218	4.6083993	1.5978288
-1.685755	3.407688	3.0783664	-1.241484
4.6937811	0.9402908	-6.034862	1.3738178
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9.9506919	12.309684	12.618061	12.804171
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-4.272689	-13.07714	-13.34033	-21.97131
-0.609545	11.378422	5.5375987	8.3142901
4.9013261	1.3568213	0.2274132	-1.003267
5.8434496	8.2351003	16.296897	3.3710709
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2.6119173	-4.492118	-0.54167	-1.702148
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1.2796295	6.7016435	6.1192003	-4.514967
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5.6445266	-4.234208	6.8966744	-5.812954
7.7623916	2.3114475	6.5016513	10.910902
5.813335	6.4727281	6.8063296	9.9403124
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-1.084069	-0.944386	-5.486562	-15.14071
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6.206873	6.498146	4.7048443	10.04482
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8.8627168	-3.468868	0.0511031	4.8557021
10.918252	5.2283036	2.1677224	0.4068823
3.9716855	-1.293489	3.1755045	-0.258129
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5.6480918	4.8068828	2.2166101	-2.826797
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1.4722185	0.6081742	5.6366721	-6.320622
5.5129216	7.4228571	4.097085	6.8896227
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1.4348465	-6.612608	-2.884248	-7.854861
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2.2572928	2.8851459	6.5680233	4.48854
4.963049	10.210492	-0.091166	3.4089061
-3.755201	-7.231361	-0.419466	0.9292724
-2.688636	1.9421817	-2.426506	-7.056544
-4.570633	-1.414	-5.544986	2.169379
-5.128241	11.199288	3.5251953	-0.712346
-1.614256	-14.09742	-20.14908	-17.63299
-1.862493	-3.324684	-5.345876	1.2020324
5.0409076	-8.686019	-3.37507	-8.112357
10.488585	10.441948	11.262203	2.5374766
14.264606	13.134455	8.433926	8.9848991
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-3.307444	-2.704721	4.3148652	-17.41125
-3.235406	2.203946	-1.785352	-12.21312
-1.2277	-0.758865	-9.810979	-7.402961
8.7125826	3.2108837	0.3062721	14.338361
5.1481209	6.4098235	-0.490515	-0.653415
0.0555149	-1.917095	4.8522114	-2.998734
0.9889182	-7.60847	-7.251605	-16.69875
-2.459057	-0.243725	-7.939003	-10.09937
4.4326527	-10.18736	-5.956869	0.2686731
1.6750232	9.6958375	6.363385	7.9746265
-4.966669	-1.808604	-11.27453	-0.652848
-6.528536	1.4233743	-3.863962	-5.739593
-8.195999	-4.961478	-9.91748	-6.011626
4.9542144	4.2004316	12.226565	-12.29328
-2.177178	-6.60368	0.7012575	-8.984395
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-3.912279	2.6618166	0.7933182	3.0675057
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7.1296338	0.5042397	-5.422032	8.3020482
-3.220529	-4.508086	-1.508136	-3.722754
-2.056127	1.7448228	2.1191485	0.6231772
2.0284536	15.82037	7.1012073	18.587321
-8.091997	-18.57213	-15.10913	-16.18697
8.9712759	-0.709912	-0.226356	-1.78922
-4.211019	6.6323416	-4.992816	-3.276501
-3.548433	-0.799203	-0.698057	-7.998671
3.0449761	5.9932385	10.788687	13.30856
10.304703	-3.908296	-4.377439	1.3719964
-0.209954	-14.35668	-5.983585	1.0058238
2.9031976	-7.107635	3.2345136	-1.05545
-5.282723	-2.88667	-8.36865	-19.14672
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-1.809475	-8.771423	-4.027428	1.2800546
-6.020641	-4.864351	-12.9725	-12.36434
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3.5378752	7.4538465	10.133035	3.2995561
1.0700194	-7.815463	-11.95223	-8.192989
0.5779853	-2.019905	-6.588935	0.8287045
3.3324841	6.6045931	10.735742	10.54684
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8.0937547	11.997031	0.0933638	1.6944877
1.5844173	5.8382864	-1.017707	8.1373469
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-13.36318	3.1328899	5.1011124	12.960566
6.6765813	22.284522	24.970199	24.963228
-9.259902	-11.22967	-7.802729	-12.22141
7.0091727	-1.414254	-3.880361	-4.058453
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6.4914962	8.5738936	-1.407869	8.1873363
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2.5472392	-1.300152	6.2576674	7.1857009

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-0.401877	-18.67982	-13.78171	-7.584284
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-2.317504	2.7474712	8.1794771	5.2589564
-12.78701	-3.303729	-7.369019	1.8311723
-4.795735	2.4782138	3.3848737	-12.74498
4.9631804	0.9860819	8.562483	16.000053
1.0254681	11.050871	6.8228705	8.2850758
4.9092213	-8.36262	-15.57968	-8.790607
5.5412873	6.4913211	12.874086	16.160933
9.0450906	-4.19106	-4.425516	6.6720234
-3.057434	-8.783876	-7.128626	6.5521136
4.1803453	3.7296888	0.8220745	13.587405
3.3609796	-1.165817	1.8849803	-7.568325
-1.3406	-0.683005	6.2798105	-5.278507
-3.995113	-0.70753	-0.947824	2.4323532
8.6865319	5.9780767	8.8841238	13.427146
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1.7092469	10.1706	0.0374865	-9.22839
2.7230075	-12.57482	-3.60844	-8.432575
1.3573916	7.0340681	9.4518361	-4.904475
1.7369333	-2.275092	1.9898344	10.916834
1.5356831	1.3842154	-12.11442	4.2856196
-3.23763	-2.541348	-10.10955	-3.361611
-11.39589	-13.75579	-21.12908	-18.27651
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-2.301493	2.54771	1.6538187	-4.260786
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4.1142188	3.8471641	6.6013133	-4.288688
4.4066258	22.24658	12.844446	24.455539
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-4.916191	5.570621	0.1598532	-5.060875
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-1.411956	4.7275158	4.0317994	-0.193811
-3.435628	-1.026332	-3.834874	-5.482746
6.6782978	8.4891636	1.5166544	12.523982
-0.067217	3.7651451	-5.469345	0.1236668
2.4463236	-5.519213	-4.400548	-11.74325
10.270109	-2.342333	-1.630186	-5.844502
-8.800623	-6.796116	-7.194393	0.3780559
2.0179956	-4.14911	-2.509432	-7.11542
-1.025425	1.7903333	1.926559	-10.94164
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1.9201594	-7.926005	-0.047752	0.0458605
13.587326	13.878858	13.219318	9.7136171
0.7812254	0.1764601	-1.467314	-9.876401
9.9175808	-4.252477	-11.43228	-1.080403
-0.755197	2.4908824	0.8495571	-4.308522
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-11.75847	-14.41388	-14.64438	-27.15151
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-6.992543	0.4015058	0.629072	-1.920386
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-4.590273	-2.440421	-4.067795	0.1477436
5.8541543	-0.994141	7.0985244	0.93517
1.9588224	16.546592	21.534034	11.037313
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4.1463394	8.4016381	11.301205	9.2693453
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2.6861781	-2.349619	6.3559876	7.8143528
-4.048592	-15.57298	-12.73437	-14.82372
-3.601117	-10.51684	-16.06738	-9.58549
4.1611657	-3.504613	-3.98253	5.965444
-0.981417	-5.92988	-10.47248	-2.815643
1.4010447	-9.339682	-6.709278	3.4486545
-5.734242	-10.98976	-12.56549	-3.706221
7.5572447	12.138062	8.1814317	1.626911
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6.6472269	13.895115	11.16021	4.2247517
3.900378	0.6843233	6.2066627	2.0847471
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9.2681845	6.1746028	-2.622473	9.5972947
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4.7562127	10.404706	16.180526	20.514295
0.1216754	8.8939521	12.102618	2.676417
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-7.91063	3.2621248	-1.4994	-12.99869
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2.3702319	-11.81696	-5.039701	1.3606372
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-2.401199	-7.908744	-7.113525	-5.928851
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2.7290199	-3.378929	-0.992466	-1.160478
0.7920569	-5.781978	10.001359	15.329716
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3.5382797	3.3711684	-1.227217	-11.90666
4.7826533	7.8849703	4.6993419	2.9863442
6.4407888	0.6099274	2.2517098	-0.409766
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0.9286421	-6.785294	-1.594153	8.2471723
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3.3455487	6.9452659	9.4977297	17.191739
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2.3137463	5.7725378	5.370355	4.2212136
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1.0028282	5.0858619	3.4426851	3.1947297
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1.95513	-1.468064	2.4863822	-14.68488
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6.818208	-3.950492	-8.961258	2.5670837
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7.4189744	-4.193593	-2.389185	-1.461795
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2.8571311	10.136652	17.419221	4.6828704
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10.150787	7.896077	6.4204777	2.9503749
5.9138111	-0.775565	-4.099682	6.6129866
-1.003502	-15.2765	-10.88594	-9.146449
5.2801959	19.581954	12.987807	8.077594
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-0.99276	-3.176985	-12.34596	-3.977367
11.261388	1.9861785	9.9930383	15.991612
0.974725	4.5910603	5.3576578	-8.719518
2.4232951	-8.086281	-6.746766	0.5951646
-0.383061	16.104971	12.068997	-0.991893
-6.683568	-0.456859	-9.09443	-1.862345
-5.932173	-0.607131	-1.660585	-16.49799
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-2.949764	0.3445318	7.7029357	3.5625116
1.1562005	-1.151302	2.1209566	-6.475633
-1.761218	-1.037953	-5.928892	7.7288609
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-1.080264	19.436672	15.239688	5.1734868
-2.597987	-3.474503	-4.203526	7.7104946
0.9062054	-0.563765	-9.519749	-7.611772
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9.0819379	2.0128466	6.0480035	-3.017612
5.3987134	1.76216	9.6349168	9.6893383
11.441409	13.803613	11.460184	18.534232
1.5585475	7.9201536	10.66205	7.1332666
9.1448866	5.0783937	9.3304929	3.4440821
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0.0939919	-11.04004	-1.353901	-16.72221
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5.4290825	9.4965672	3.2570018	5.011234
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-7.89862	2.5862476	-0.628697	-4.093365
3.6177922	6.327495	7.1127481	12.423951
3.1205461	-0.030636	2.3326612	-4.854375
-1.644672	-7.42776	-15.64441	-11.25352
2.9199374	-1.603065	0.2619904	13.616341
4.4960657	6.5844836	4.9630322	-12.40853
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-2.717757	-7.967767	-8.781939	-9.118922
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10.184468	11.248338	10.953986	18.749927
4.4945263	8.5845711	10.467971	11.2913
3.3302564	11.16652	5.8152362	11.133844
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-1.687797	20.416984	10.996732	16.058907
-7.60274	-3.259556	11.733454	0.8158725
4.3736078	3.4798598	7.3597063	11.293665
-0.190302	-8.98181	-7.845878	1.175137
4.6715238	5.8158425	11.818493	10.285811
-5.820884	-15.59424	2.4578318	-6.885158
-4.189287	-2.096708	-4.126737	-13.91986
9.4399819	14.155419	16.241908	16.367702
2.4380719	3.6419262	3.8552122	9.8391796
-6.376422	13.661245	6.7034578	-4.79248
0.3136416	11.650713	7.2267585	12.075599
-1.183221	-11.69026	-12.78118	-10.74716
-3.271526	1.8891359	-5.10237	6.863996
-5.893196	-8.514787	-7.396943	-0.370326
-9.137127	3.8713985	3.1488558	-6.028526
2.2734668	-0.425088	8.8722915	3.236188
-0.782334	6.5111841	12.376359	1.2515624
5.8457926	7.8000459	2.5410042	2.5640712
-0.19032	2.7434735	-1.793282	2.720916

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1.3674439	0.8925701	-0.917082	-12.05476
-3.355135	-5.745169	-5.164186	2.8219709
-2.425907	10.872006	7.494782	7.6646663
2.258092	-9.049032	-2.598821	-3.159512
4.326702	0.2489093	2.4635255	-7.828653
0.5279775	-1.802442	-0.743166	-3.402689
2.8550441	-6.004929	-3.000345	13.840339
-3.902004	-0.93089	-17.55313	-2.911107
-1.858108	-3.554683	-10.14451	7.6854011
4.798094	5.354293	17.39636	9.3780379
-3.471099	-6.158467	-0.778208	-7.496376
0.9831784	-9.664711	3.0253773	0.1641792
-4.717997	-4.067378	1.4699125	-1.906219
0.8354728	4.2055238	5.2239907	3.1341472
2.4077157	9.3224445	10.8363	7.9682123
4.2781696	9.4270001	6.2827467	0.725041
-0.650685	2.2241726	-8.683308	5.3814123
6.8317898	2.1758139	4.7026083	-6.075735
7.3338152	2.3367554	13.302352	16.430989
2.2848381	5.2956592	-0.525439	3.7680052
1.4596632	9.0985845	3.3960506	4.700091
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-3.924635	8.0771699	-4.129036	-17.10178
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7.7627543	1.6910267	4.5112414	9.4866434
0.5823073	-8.096088	-6.229818	6.2866611
-2.652891	6.709364	1.9248225	11.374168
7.6068392	20.587259	9.3207855	11.269476
-0.704783	-6.123259	-8.235064	-2.467801
3.3795897	0.7289663	-4.286209	8.3431184
9.6592373	9.6641015	21.038456	8.4888867
-4.946387	-6.324698	-1.011528	5.0716612
0.8090992	9.2996881	1.4668159	13.612559
1.7940264	6.6140926	4.6112569	-0.014385
0.6416442	-11.61136	-9.042496	1.0333196
-2.295474	-6.847811	-9.70469	-11.06815
6.5521367	-4.428164	3.5410964	0.0959192
-5.503526	4.6537447	8.8479601	8.8881456

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-1.579099	8.3774292	8.5105169	6.5343711
4.4437555	10.239734	7.9349131	13.020612
4.5246527	1.5626177	8.6966261	12.506827
3.3565979	3.1446933	3.0803228	6.7697857
6.1575814	1.7308229	0.7024163	-2.91349
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-3.669448	1.5224829	8.146005	-3.477761
6.012005	2.4585737	8.2978152	-3.160952
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3.673375	-3.26598	-7.368469	5.3285994
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27.687929	27.579416	18.063318	27.417843
25.203367	30.735837	20.013662	29.699535
36.118478	31.415621	25.690568	42.425495
25.438971	33.64405	25.438538	22.545874
31.641901	32.053658	25.248531	24.40513
28.15433	33.359366	33.088323	33.265689
28.719552	27.161935	28.466528	36.872421
21.5361	35.110503	17.784019	32.063905
19.735737	24.912132	24.334021	10.063081
31.342094	15.510513	18.566686	18.569585
26.09107	29.812552	21.554493	30.119669
23.190624	21.692681	25.121026	11.088191
22.467192	29.868659	17.267152	14.117609
23.624598	24.066526	15.959119	11.344797
20.479061	30.929977	22.677743	22.610472
28.532961	29.176567	27.264167	25.378797
34.090669	33.193459	32.824214	25.455762
22.938706	21.644962	30.34769	14.206265
35.353674	32.95964	18.178214	37.976031
12.922755	12.218771	17.927187	13.957802
29.468387	33.430128	33.425113	25.776859
30.256986	12.170549	15.536391	11.570861
26.341709	36.451188	37.173548	37.908645
24.557638	18.329356	9.4555666	20.266912
21.659408	27.83054	28.625469	23.736093
29.947323	18.518187	16.947459	25.853549
25.00459	18.962665	31.672437	25.025875
31.957866	36.970614	38.572569	36.946035
21.306148	22.075527	16.511257	18.466857
33.284173	34.887715	23.386556	29.10926
23.358754	12.026807	20.387804	-0.891405
19.564919	18.348483	12.383397	25.492158
23.386662	14.955978	18.82236	19.133194
28.907538	30.408484	24.942849	31.006607
26.931924	13.310083	22.44683	25.822669
30.655706	18.703382	17.171804	22.731904
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31.478918	19.707134	28.981987	33.59831

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23.643623	27.351793	34.391225	19.403412
22.396343	26.255884	28.740088	31.205435
26.27888	28.142552	23.582994	28.688201
36.378081	20.20502	34.883748	29.467458
22.176225	15.299296	19.789155	14.476388
31.201907	29.310213	23.318751	39.871233
27.307369	32.730295	34.674534	37.477696
22.036028	22.281095	30.122377	13.724587
25.939054	22.799351	25.115017	13.067972
21.720056	24.867184	12.394952	13.909744
28.80793	20.528353	25.116501	41.086174
22.767184	21.804074	5.4301127	23.97994
26.608629	21.088799	20.622059	7.674897
29.253484	33.273488	35.877807	34.703162
18.635654	18.960697	19.126452	21.42754
30.313363	34.676386	32.01376	32.026545
26.705108	26.736698	17.61745	37.175573
24.208701	29.447039	30.361983	22.57332
21.515804	31.299909	40.286822	33.717753
31.511709	24.789301	32.26682	26.856914
28.156398	23.760891	20.706985	15.898419
27.996033	24.564572	24.751338	34.123446
21.42035	24.160841	24.071976	24.820857
31.486166	31.286401	18.878161	32.131817
25.676924	32.526396	24.299721	32.171159
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16.86831	18.412319	13.187625	9.7576328
22.787355	19.862732	22.382427	36.449146
24.435613	31.70441	32.301285	19.610125
24.6994	17.904285	20.652307	23.02921
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26.395674	12.826102	18.907622	15.963326
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23.660682	20.350522	23.22026	18.116254
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36.704897	38.759521	35.26415	28.219824
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25.387789	29.509723	35.536419	44.664262
20.09189	3.7449521	12.577986	9.2271784
24.458544	30.1729	22.235795	30.425514
34.468631	31.06061	25.720817	38.137272
28.780171	32.183638	22.587716	26.792819
26.112877	23.575394	24.957544	1.7732717
21.746898	9.1550204	10.762163	15.751105
25.452123	19.319877	28.14827	13.458587
34.831966	30.622656	35.462603	30.302517
28.430528	18.087053	29.18642	22.892202
17.654412	18.991203	23.259006	18.989699
25.522555	30.50333	28.512508	26.596214
31.121169	37.086576	36.888929	27.765302
20.225172	25.730848	24.291909	17.706101
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34.748223	35.97597	29.192875	38.035206
23.609847	19.288665	20.352439	20.425573
30.870455	33.592878	27.098996	20.887074
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26.937691	22.965515	18.942272	18.512118
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31.161169	17.346884	23.045223	20.251843
23.146576	14.678454	22.725346	7.5105984
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25.268256	30.202485	37.334126	20.809097
27.737882	32.369633	34.253362	28.377688
30.362416	35.069009	30.523324	37.286222
22.388208	15.564816	8.1583556	11.038905
25.914636	24.369595	26.457531	15.837582
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19.94923	28.651917	19.393694	16.663655
19.747848	19.105701	14.129767	16.431641
32.960005	30.158885	30.582016	32.529663
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23.441195	24.763007	21.926775	20.575158
32.048395	26.193754	28.340184	20.601171
27.585918	27.111362	29.160626	30.151536
26.590089	23.230653	22.604566	18.183232
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22.471105	21.807454	33.849704	15.903402
28.060463	27.817073	35.693738	26.670019
30.366285	25.513873	27.08015	34.059369
22.295006	23.110594	32.747548	18.952613
24.869285	26.618562	26.388939	22.132007
29.192324	20.577675	23.276081	13.390286
25.943807	26.681148	18.328338	27.495309
19.815916	15.572095	18.757838	18.282592
32.522411	37.401823	38.308462	26.464647
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22.996639	17.091517	27.633291	18.380535
26.332696	22.646869	27.269002	22.351978
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22.987143	23.972161	21.316901	17.880614
25.627776	21.263426	26.832098	29.577623
27.440464	35.609673	28.267372	20.553166
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26.418383	30.185574	26.771813	23.756139
31.419421	25.178511	24.92096	31.42998
20.119656	19.63368	21.332897	13.291829
27.091882	19.417408	23.892162	17.133102
21.947084	29.469884	28.622025	20.939488
26.256002	15.649516	20.615946	32.322927
31.076219	32.77839	36.653478	40.60115
33.386682	37.695521	36.350951	36.447246
29.69991	36.503136	34.238086	29.73547
32.001684	12.367605	17.813557	12.300167
21.854872	27.097171	16.575373	18.628153
19.26026	20.676935	16.03858	17.279682
32.644046	23.406222	23.93914	32.40797
23.507892	24.789528	22.936896	30.841009
21.838607	13.221075	20.67759	10.850274
21.254597	22.359259	25.888651	23.27879
28.93052	31.119123	24.442026	43.995879
27.355417	24.601737	40.131567	20.708929
29.725935	34.065348	31.778683	34.465119
20.54866	22.956347	22.249684	27.584876
28.390216	20.361489	10.80597	33.260678
27.899742	17.938596	10.636662	21.714446
25.828021	28.730881	22.793925	25.318207
31.06095	24.798062	19.906578	29.975749
21.220516	25.113773	22.080282	36.957924
25.25149	35.78457	34.695802	28.051324
14.938302	13.626569	16.824043	18.4929
21.320366	18.172522	10.546332	13.248662
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24.036807	14.864265	22.875476	15.273025
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24.802568	29.86539	34.685551	23.057267
24.956485	37.192236	25.784631	23.248179

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29.105694	25.334873	19.08326	32.147219
38.740759	38.299094	33.626246	34.436633
20.447078	27.700801	20.679522	23.840496
29.122944	25.081809	23.835786	13.848481
25.858748	22.728646	23.378046	20.686394
26.147238	32.978535	26.791419	19.006091
25.984601	25.824035	22.050769	18.634498
25.774316	20.219704	24.625897	23.082926
29.697252	33.1235	39.175969	32.707025
28.0008	34.404301	24.727373	27.044061
28.640799	27.619099	30.211079	29.817077
27.72847	20.658621	31.260477	26.336712
21.05317	24.952005	19.875585	18.054326
28.393801	28.780908	24.119062	33.829642
23.441963	10.858736	14.912647	9.7472662
30.47147	30.479301	37.219962	45.604141
30.904012	27.125312	25.264936	31.320194
26.317966	17.579936	24.807287	29.215726
26.856785	30.849191	39.751999	19.773518
25.680114	18.595197	11.040687	10.349587
22.047956	30.655824	34.663125	21.593854
17.501253	26.735076	29.728867	17.455191
27.520112	17.664013	20.042987	34.71327
29.01538	22.835315	29.56049	20.612638
26.224979	19.748012	15.823249	9.6435333
26.88343	27.698179	23.613155	29.641921
28.3049	38.62256	39.915487	35.372343
30.554319	38.907607	34.417493	38.468323
23.77826	22.087296	21.529383	16.514293
6.7088807	18.062405	12.203998	18.034539
23.787729	17.043531	15.970072	14.767353
24.514719	22.422495	25.947087	15.625562
34.184596	28.329273	20.631231	35.059672
32.030261	32.87587	40.189211	37.487156
29.355723	21.776782	22.276952	28.882968
20.360964	20.289449	16.766736	21.002435
27.135244	36.277898	30.343319	31.268297
18.864226	22.291923	17.943029	22.861389

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21.713458	26.094996	16.134534	26.003804
27.140115	29.057754	31.994417	32.909486
30.566161	22.183253	28.195637	11.308795
21.495728	21.017058	25.04487	13.245552
22.591732	31.888742	17.31228	18.470369
18.889415	21.669386	29.590606	21.956047
31.789226	21.735031	31.362891	28.860229
25.328772	32.355996	24.3254	27.395619
24.190442	25.709674	22.812844	16.205637
27.027134	28.412306	29.031147	19.853085
21.820617	4.5072436	3.6219347	20.946849
36.222799	34.61665	35.453359	34.555162
27.862686	17.385175	21.970305	31.305083
34.217728	39.311621	35.901358	21.209304
28.904805	14.346252	22.78197	27.217009
32.226233	38.502078	38.830269	29.971598
25.352226	13.374129	16.262888	16.792753
24.914417	32.657324	31.579014	27.198308
19.082522	24.837245	14.988394	16.689286
13.160592	20.699432	25.153108	18.392458
32.930879	23.758815	32.506703	36.965927
35.269066	19.032704	23.234873	40.734272
24.931163	34.160449	36.307292	31.59588
28.090956	22.605984	21.873977	22.80511
25.153157	31.397269	32.709703	25.876458
21.585698	27.566198	24.135633	26.084755
25.846745	23.757441	30.403578	24.966861
30.242302	36.541947	35.96054	23.684174
25.629893	29.390121	30.551462	20.415856
27.975873	23.601695	22.048871	29.656063
24.377863	41.648202	42.009152	30.117865
23.800278	30.430321	29.940764	21.753454
20.964819	14.35616	8.0427775	4.0151137
28.737034	25.374112	32.648616	29.712299
26.700747	23.161372	24.783503	20.314188
31.554016	28.01236	35.735797	34.03696
17.623018	8.2199099	6.6402413	15.157188
29.348057	42.466981	41.768897	39.88183

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28.858189	22.013244	30.874147	15.412131
28.95352	23.480579	16.659264	33.265807
20.451864	29.515455	21.419821	22.662721
25.765142	18.990748	11.266992	18.689034
31.134792	20.037633	21.883458	28.457948
25.777667	20.586195	22.875161	31.834854
25.483718	37.25179	27.661307	35.978637
21.542898	26.431606	32.403938	33.586541
23.408997	16.990989	17.238268	24.85402
28.781878	23.233581	16.049766	15.394795
19.495205	48.599838	46.1809	38.512671
23.282964	15.84857	24.313597	17.355302
31.733153	32.594044	28.144218	16.620791
23.253843	20.974074	12.78649	23.13577
19.78686	9.3100066	9.2500578	21.119891
29.411454	34.755658	34.39433	32.437869
20.637555	15.920461	18.576143	13.399504
27.764363	22.644767	22.037967	17.02728
23.993245	28.20826	20.618058	29.294486
26.303632	22.332152	18.416228	32.440323
17.779961	24.56868	27.791461	16.263907
30.502814	25.51817	27.715104	34.113522
24.08613	34.727907	38.943214	37.321339
31.947986	35.320237	27.979753	41.201223
27.792818	26.200338	22.580924	28.102437
29.81037	19.752827	25.587598	24.426168
22.521482	22.378096	28.835057	21.571252
30.564971	21.791145	13.822373	24.595367
24.098614	18.231625	21.695788	22.025591
35.479682	29.578148	29.210406	31.974439
34.000391	39.088208	31.804032	49.863558
24.301557	41.202645	32.861651	22.192128
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29.130755	14.861073	15.386884	15.469999
17.249334	28.342625	27.599179	16.324014
35.14321	36.587042	30.326381	30.978414
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28.387123	30.764732	20.902493	33.333836

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27.775998	17.258333	15.642337	24.747699
29.702915	23.820006	29.416041	25.353321
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36.376856	34.973938	27.818789	21.504806
29.259592	12.171307	19.885038	21.299924
20.869488	24.371983	27.361983	10.658505
33.296648	31.546588	26.827303	37.245314
33.330796	31.23736	24.318537	18.711009
16.780625	25.430908	28.429182	20.558543
19.600654	25.087062	21.18272	10.480519
15.358093	13.225102	2.5358342	15.897481
39.623891	32.168952	26.182375	35.241757
15.640158	14.698599	26.534995	16.157155
36.857233	49.435267	48.795947	39.752103
33.731764	29.886911	30.504081	26.294248
36.867632	36.274288	36.037318	41.50777
30.497802	31.250666	27.685479	24.442902
21.765287	15.982464	29.044852	13.74297
27.723	46.123977	34.944362	53.943614
27.660783	31.972884	21.685031	28.078208
27.997489	13.263858	17.429309	19.948194
19.852664	25.987129	29.625515	21.908895
30.320925	14.809219	14.827104	13.356923
30.604238	21.476193	27.413236	22.125412
25.993452	38.330225	27.604673	38.471004
15.254444	11.139808	3.5194596	-3.805682
21.00978	35.699677	26.780912	34.790486
32.65894	33.302756	34.636006	26.407341
23.380104	19.997524	22.321629	21.750927
19.803625	21.76548	22.888687	16.600007
25.958363	20.47609	24.801041	12.234395
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20.743642	21.522572	23.049047	19.17296
27.820529	24.679768	12.720465	17.165668
26.829726	24.117338	18.340797	27.129443
23.580348	20.222437	22.240758	21.941464
24.969615	26.628951	28.278178	24.059207

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19.80016	23.0133	16.232939	25.953882
15.959099	18.758344	22.733666	4.3756867
20.667388	17.466138	16.02985	22.897581
27.195402	8.700968	6.2937753	14.657612
16.833164	13.05197	17.792638	-3.270149
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24.910588	19.591371	26.101216	28.209533
22.387339	19.41099	23.574332	23.951167
23.98422	25.216104	23.816672	32.029343
20.553168	23.708893	25.187785	19.776745
31.855279	32.949276	27.685781	33.097815
25.836295	25.501757	21.119103	25.378151
23.804568	30.33804	22.398195	25.054823
21.811347	21.610013	24.735865	16.47736
25.708658	34.403896	39.806995	26.130008
27.148098	32.598961	35.85713	22.622247
29.568811	34.667783	32.091078	27.266657
29.149336	42.686833	39.890091	36.932332
26.473509	22.505755	22.622603	20.358487
27.858019	28.042732	39.395911	33.693585
22.447185	34.101692	20.170001	21.458408
27.229604	20.232213	24.257798	26.112898
23.558042	21.398764	21.337639	25.267688
27.437996	23.133769	35.697628	28.878172
23.510668	28.396081	24.598822	17.197685
23.285502	37.144344	35.987713	17.612372
36.936914	32.717313	34.69082	33.404196
30.057153	40.763109	30.321429	35.010822
32.274708	25.519112	17.356997	30.347847
24.338446	23.927161	24.235391	15.38319
26.157792	22.322152	18.488695	27.119938
26.738063	19.573918	18.067119	17.198869
18.942841	34.035963	29.572679	16.606364
34.586393	28.441243	31.422532	30.30882
36.398273	18.103442	25.262611	26.170283
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30.383856	34.174043	32.624021	23.858316
31.87091	23.44096	25.86554	26.012911

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27.728114	20.824651	14.182637	23.773965
27.499245	44.985001	39.11029	42.701072
26.195984	24.439047	22.930845	22.58169
31.659951	34.507881	33.789692	29.845543
24.357565	15.523044	17.132591	13.825344
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21.830511	20.933136	15.607216	19.56918
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39.430676	18.777186	19.450172	37.255084
22.514456	21.779721	27.125578	27.632065
33.224982	34.920125	31.780879	37.629896
35.677778	29.370439	43.171879	42.148032
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30.774342	21.948894	24.427739	29.426579
25.39303	14.431308	19.887208	13.370378
23.788008	22.884545	27.001535	21.677473
22.059799	33.015915	33.331612	16.511704
26.005173	28.124756	16.633251	19.066057
16.40176	7.0124056	8.7803508	14.502926
31.258665	19.557841	20.642971	11.735554
30.581724	33.920093	32.897848	27.588917
24.515726	24.887917	23.446126	23.6126
17.538905	22.3944	19.714147	14.033715
22.543182	30.028475	32.910722	24.127804
27.682397	18.90381	28.026343	25.660907
29.170988	29.561092	36.383851	21.697894
24.930167	17.86656	17.563931	28.104686
25.840979	29.918659	33.476745	30.533515
24.721681	31.020272	38.156004	30.195057
16.179619	8.6842139	6.9201395	2.4241405
31.9879	15.546726	22.238276	39.219055
29.188325	17.052701	12.030526	23.623912
17.464605	13.102766	16.692216	22.569124
23.251522	25.513601	20.069943	10.597492
30.602568	16.313907	18.856252	26.099167
27.620916	25.191567	21.63512	33.356556
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19.540745	28.25849	20.476995	21.502078
24.244924	13.439037	19.183398	23.629581
27.661173	19.564368	27.660294	23.723312
29.627213	18.108216	20.060134	19.37186
30.734912	26.824406	19.534598	11.702641
25.750386	27.420495	18.056628	24.546421
26.757617	28.135513	27.871791	34.705741
27.315201	35.935867	29.470763	22.498337
26.66302	26.223651	21.276865	25.255496
32.195522	32.141686	27.572952	29.961525
25.886689	18.531173	17.830122	22.076415
29.494771	23.425422	24.511492	21.54146
23.807701	27.94141	25.323356	23.79803
28.185943	43.568699	38.789972	30.886711
34.502877	35.690699	34.011932	38.159895
30.298935	22.869877	18.633446	34.693165
24.755244	19.559945	24.896294	21.275344
22.583999	21.635764	24.839861	17.113877
22.295182	21.809477	27.027105	17.163628
26.989197	41.068703	33.580177	39.842054
24.29023	10.427061	29.072175	28.788059
26.347431	28.15191	21.424918	24.837598
29.2809	25.217373	23.595973	20.163331
22.501355	17.534468	13.655631	10.59396
34.710587	32.330689	33.318796	36.546532
21.005366	24.059379	20.315344	20.561332
26.601783	22.25821	10.46009	16.678439
26.730011	22.019312	24.971171	35.790155
25.939562	20.687287	19.872765	16.581737
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34.457952	22.503155	15.431206	43.393686
27.470552	15.069764	21.37779	24.405755
26.271755	35.216411	24.183102	21.274669
24.622134	12.007341	18.07892	11.112593
18.936728	19.975843	15.001422	22.924002
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25.010753	19.891281	24.133915	26.080947
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26.640897	28.254387	22.539735	19.960402
21.170754	24.033942	20.851998	11.27016
27.899364	21.661722	18.439642	13.016379
27.026469	35.331989	32.477462	34.33201
27.091359	22.203086	14.739206	36.652734
27.223942	21.190811	19.460472	21.074839
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24.196023	29.457197	20.966033	16.364918
21.617893	28.863471	21.799247	27.164758
25.410606	34.57111	38.357771	17.082889
26.027849	31.070369	28.850981	31.43977
27.945184	24.308105	23.985732	19.559679
29.248963	23.113745	25.923131	22.775939
29.740775	23.282399	29.796539	18.995975
23.534567	18.689699	15.816157	23.24434
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35.575634	36.778833	28.391653	40.117161
31.615453	31.158456	29.967432	43.614736
29.42984	30.400717	33.434162	33.633791
28.090107	30.482397	24.968774	36.14615
29.422375	28.010823	31.129384	36.95656
29.832282	27.134581	24.129827	31.312776
33.680037	29.448857	29.598135	20.288098
22.263855	9.9230446	11.525573	23.980809
21.130966	27.444484	22.444866	10.171103
26.416693	33.510287	35.306094	16.115417
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24.592124	27.935874	24.565635	24.25633
23.202736	24.542223	27.367648	17.952535
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29.957938	20.336321	20.743999	39.445844
36.233565	37.445667	31.178537	37.945753
29.440574	44.353037	50.954983	34.753333
28.84523	22.417251	34.828555	19.5371
31.918051	27.020709	26.13059	32.636447
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23.388984	33.176021	18.657669	12.969756
24.651595	17.574564	23.720722	29.649805
28.979291	25.530457	22.506674	31.051407
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23.993563	19.161202	22.233749	32.615729
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24.926868	15.061875	17.444014	21.604437
30.444619	33.284691	32.45311	30.068091
30.679887	33.045711	36.735593	33.100128
28.380959	16.664487	11.560245	14.638783
21.737171	36.0525	24.650876	16.346344
27.438501	23.009405	27.490947	24.248393
35.784821	24.649517	15.693163	42.586537
26.945626	36.611642	34.721006	33.808274
31.877101	33.005456	33.71283	25.318477
28.734613	23.027134	25.940925	4.5307613
27.074804	30.641318	24.25309	25.316084
23.8066	23.267459	13.513997	33.344469
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24.576596	21.371261	19.55904	26.029972
30.482548	28.565735	35.385452	32.745077
26.904796	32.253438	37.77053	31.370646
26.759743	28.971781	22.686282	19.820754
27.117414	24.176988	20.383266	30.792945
21.46449	22.641314	18.454647	28.507811
28.136825	18.000128	19.807589	21.44816
33.250014	26.551831	33.315792	36.332862
25.645313	19.797694	11.582448	14.713842
26.941515	23.635174	28.740967	25.57637
35.103669	33.022363	40.023494	37.737768
32.186952	29.249702	30.889204	39.73063
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13.1156	18.497633	13.920654	9.4403215
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24.477206	21.03459	18.329823	16.130094
18.928294	19.348502	17.298591	21.153742
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29.559504	28.891922	28.608399	25.597829
24.314245	28.407688	27.078366	22.758516
30.693781	25.940291	17.965138	25.373818
21.074051	25.706355	30.257255	29.087398
35.950692	37.309684	36.618061	36.804171
21.902404	22.506622	15.118732	16.485569
21.727311	11.922858	10.659674	2.028692
25.390455	36.378422	29.537599	32.31429
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31.84345	33.2351	40.296897	27.371071
24.491402	28.285307	25.518589	28.80997
22.936888	31.773422	30.514409	24.443679
32.596433	24.290499	24.541895	33.712169
29.946214	30.50883	33.141819	26.245111
36.362992	45.201935	38.166534	50.655954
28.611917	20.507882	23.45833	22.297852
27.381397	33.337961	28.111155	31.097556
25.55939	17.680064	11.487726	14.59403
27.434614	27.856093	24.144667	24.205112
27.27963	31.701643	30.1192	19.485033
23.958936	15.172318	6.4570242	14.053587
18.930039	21.503499	25.143542	18.53349
25.590619	24.419477	28.833789	20.432776
22.390484	17.095766	21.542272	9.8090342
24.479945	23.51432	24.758255	26.779403
31.644527	20.765792	30.896674	18.187046
33.762392	27.311447	30.501651	34.910902
31.813335	31.472728	30.80633	33.940312
23.336153	24.082827	26.479405	21.769354
26.02941	27.024974	24.671538	24.873355

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20.980494	30.139139	25.22573	24.048083
24.915931	24.055614	18.513438	8.8592943
20.706956	24.419652	15.486469	29.536686
21.102762	35.77738	26.901817	22.83218
24.188833	12.942922	22.229048	11.645686
32.206873	31.498146	28.704844	34.04482
28.214265	24.334452	24.672038	31.206896
33.115816	27.397195	30.02969	28.573211
23.906144	28.243124	30.17413	25.725784
33.386283	33.638343	36.632961	39.178353
34.862717	21.531132	24.051103	28.855702
36.918252	30.228304	26.167722	24.406882
29.971685	23.706511	27.175505	23.741871
24.211283	22.565355	27.595337	24.53217
20.204153	14.388605	12.457413	11.842665
20.217467	20.963709	20.239011	22.396697
17.694464	26.563043	14.656805	21.91647
24.602515	12.177874	14.444785	27.864966
24.495232	33.964841	19.445469	29.58077
24.269326	38.035313	30.397017	13.856785
29.269542	20.091555	26.598841	26.519688
19.297128	7.2024598	8.2724054	11.232268
28.447606	37.585042	33.759096	28.910801
33.094379	31.658381	32.725822	36.806148
21.122768	18.060392	23.364854	19.347198
29.709297	24.830014	26.282285	37.373638
21.012326	9.0215315	9.736271	23.191533
31.648092	29.806883	26.21661	21.173203
26.520158	24.476128	25.730267	27.712954
17.238175	22.783127	15.824101	20.364122
27.472218	25.608174	29.636672	17.679378
31.512922	32.422857	28.097085	30.889623
13.376596	19.007322	16.745842	9.8979825
23.172013	9.7169029	21.151835	21.389525
21.285802	32.093219	37.541331	16.557152
30.574858	18.399493	22.627371	30.604839
25.342209	24.474196	23.433814	16.475609
19.694243	26.772366	14.663055	15.079547

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18.339209	23.325405	16.510802	18.418917
15.392999	15.021308	9.0119716	14.976297
27.434847	18.387392	21.115752	16.145139
30.406962	34.712977	29.921482	34.950698
35.338766	26.519602	21.345349	31.521562
21.222835	29.776202	27.397917	29.297368
22.153501	14.887153	14.878851	21.685984
28.257293	27.885146	30.568023	28.48854
30.963049	35.210492	23.908834	27.408906
22.244799	17.768639	23.580534	24.929272
23.311364	26.942182	21.573494	16.943456
21.429367	23.586	18.455014	26.169379
20.871759	36.199288	27.525195	23.287654
24.385744	10.902576	3.85092	6.3670098
24.137507	21.675316	18.654124	25.202032
31.040908	16.313981	20.62493	15.887643
36.488585	35.441948	35.262203	26.537477
40.264606	38.134455	32.433926	32.984899
23.114698	22.419673	25.278198	9.6695222
22.692556	22.295279	28.314865	6.5887497
22.764594	27.203946	22.214648	11.786875
24.7723	24.241135	14.189021	16.597039
34.712583	28.210884	24.306272	38.338361
31.148121	31.409823	23.509485	23.346585
26.055515	23.082905	28.852211	21.001266
26.988918	17.39153	16.748395	7.3012534
23.540943	24.756275	16.060997	13.900634
30.432653	14.812644	18.043131	24.268673
27.675023	34.695838	30.363385	31.974627
21.033331	23.191396	12.725471	23.347152
19.471464	26.423374	20.136038	18.260407
17.804001	20.038522	14.08252	17.988374
30.954214	29.200432	36.226565	11.706716
23.822822	18.39632	24.701258	15.015605
22.691026	28.002047	29.555487	22.736201
22.087721	27.661817	24.793318	27.067506
17.599713	5.4343928	4.7976159	10.450201
25.997487	20.234207	11.50319	17.61905

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24.360011	28.108099	33.670296	26.401478
33.129634	25.50424	18.577968	32.302048
22.779471	20.491914	22.491864	20.277246
23.943873	26.744823	26.119149	24.623177
28.028454	40.82037	31.101207	42.587321
17.908003	6.4278725	8.8908678	7.8130299
34.971276	24.290088	23.773644	22.21078
21.788981	31.632342	19.007184	20.723499
22.451567	24.200797	23.301943	16.001329
29.044976	30.993239	34.788687	37.30856
36.304703	21.091704	19.622561	25.371996
25.790046	10.643322	18.016415	25.005824
28.903198	17.892365	27.234514	22.94455
20.717277	22.11333	15.63135	4.8532834
24.345214	14.451311	9.3852685	20.629945
24.190525	16.228577	19.972572	25.280055
19.979359	20.135649	11.027496	11.635662
20.198695	13.54895	8.5776229	12.489175
20.948815	24.278812	26.155367	21.532351
29.537875	32.453846	34.133035	27.299556
27.070019	17.184537	12.047771	15.807011
26.577985	22.980095	17.411065	24.828704
29.332484	31.604593	34.735742	34.54684
23.450802	22.683495	17.918995	21.897443
34.093755	36.997031	24.093364	25.694488
27.584417	30.838286	22.982293	32.137347
25.181238	34.17029	22.551976	30.299749
29.672496	37.003582	34.233013	34.181815
12.636823	28.13289	29.101112	36.960566
32.676581	47.284522	48.970199	48.963228
16.740098	13.77033	16.197271	11.77859
33.009173	23.585746	20.119639	19.941547
22.563381	35.313578	30.910452	10.599189
22.25356	17.211562	17.382502	13.534514
32.491496	33.573894	22.592131	32.187336
22.456689	39.280538	39.575158	42.397104
28.924912	27.217561	26.555847	21.22426
28.547239	23.699848	30.257667	31.185701

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34.105176	29.066003	29.585714	26.744536
24.879675	16.037502	25.036306	21.326282
25.598123	6.3201778	10.218294	16.415716
31.247674	38.183438	28.53805	32.380073
17.95045	22.913756	23.698341	17.433861
23.682496	27.747471	32.179477	29.258956
13.212992	21.696271	16.630981	25.831172
21.204265	27.478214	27.384874	11.255024
30.96318	25.986082	32.562483	40.000053
27.025468	36.050871	30.82287	32.285076
30.909221	16.63738	8.4203194	15.209393
31.541287	31.491321	36.874086	40.160933
35.045091	20.80894	19.574484	30.672023
22.942566	16.216124	16.871374	30.552114
30.180345	28.729689	24.822074	37.587405
29.36098	23.834183	25.88498	16.431675
24.6594	24.316995	30.279811	18.721493
22.004887	24.29247	23.052176	26.432353
34.686532	30.978077	32.884124	37.427146
26.375389	42.533061	37.711827	32.555967
22.433463	29.494361	31.669116	27.240208
21.038283	12.457706	13.410599	7.1253334
27.115321	27.39637	17.742309	26.214834
23.186144	25.427295	15.555303	24.77543
27.709247	35.1706	24.037487	14.77161
28.723007	12.425182	20.39156	15.567425
27.357392	32.034068	33.451836	19.095525
27.736933	22.724908	25.989834	34.916834
27.535683	26.384215	11.885581	28.28562
22.76237	22.458652	13.890454	20.638389
14.604113	11.244207	2.8709241	5.7234934
26.034573	31.852816	25.031538	25.918794
23.698507	27.54771	25.653819	19.739214
24.862342	15.45728	16.842889	24.113673
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29.303366	31.167807	27.514651	29.205717
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29.559744	20.895092	26.005078	22.84626
24.588044	29.727516	28.031799	23.806189
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32.678298	33.489164	25.516654	36.523982
25.932783	28.765145	18.530655	24.123667
28.446324	19.480787	19.599452	12.256755
36.270109	22.657667	22.369814	18.155498
17.199377	18.203884	16.805607	24.378056
28.017996	20.85089	21.490568	16.88458
24.974575	26.790333	25.926559	13.058362
17.559455	28.918447	27.373979	28.431445
26.42056	27.247589	32.814871	35.583402
26.842798	33.40315	26.594589	41.234217
30.18	26.524987	24.108014	30.441098
21.084398	16.91451	16.109382	24.302474
23.516581	22.298988	20.684937	20.709012
17.001578	19.69939	20.844804	27.425112
19.0968	19.688852	25.360603	23.744864
29.966849	34.647589	31.708787	39.526089
19.740307	17.0369	19.277639	5.5062407
32.331746	26.600384	27.672054	15.303783
22.917371	14.562789	10.52576	13.048781
27.920159	17.073995	23.952248	24.045861
39.587326	38.878858	37.219318	33.713617
26.781225	25.17646	22.532686	14.123599
35.917581	20.747523	12.567719	22.919597
25.244803	27.490882	24.849557	19.691478
19.97341	17.017792	17.117553	20.22676
14.241531	10.586122	9.3556237	-3.151514
33.077536	35.89154	38.131528	29.901223
22.225008	24.085361	20.955397	28.147185
31.828853	27.88286	34.05532	44.129521
26.89019	29.920883	30.261888	23.805588
26.342956	3.0715771	9.7032111	10.632932
31.107753	23.184914	15.845614	39.737136

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19.007457	25.401506	24.629072	22.079614
24.742541	25.012341	19.943433	32.781854
29.004198	27.988982	24.400197	25.043752
23.009254	28.040333	38.366519	27.57239
24.268872	25.61065	20.103185	23.433508
21.409727	22.559579	19.932205	24.147744
31.854154	24.005859	31.098524	24.93517
27.958822	41.546592	45.534034	35.037313
28.870824	20.673196	29.550366	25.15632
26.122135	26.653091	18.11599	30.273213
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32.782445	24.490461	21.242024	33.11444
24.399221	21.776054	17.696467	28.322873
22.882795	29.273484	24.905532	32.753488
25.468877	25.307625	27.071099	19.681186
20.191728	7.3615005	9.8445847	14.779749
25.078141	26.366032	30.291663	24.907531
20.061827	21.880782	25.230113	17.769441
21.487722	14.359704	22.377894	7.4983179
36.371766	43.680427	35.444421	31.861587
28.94873	25.827154	22.051806	23.412815
17.226005	23.721559	16.321796	19.60591
28.686178	22.650381	30.355988	31.814353
21.951408	9.4270219	11.265627	9.1762784
22.398883	14.483159	7.9326173	14.41451
30.161166	21.495387	20.01747	29.965444
25.018583	19.07012	13.527519	21.184357
27.401045	15.660318	17.290722	27.448655
20.265758	14.010238	11.434512	20.293779
33.557245	37.138062	32.181432	25.626911
31.045438	26.816567	25.616094	24.811033
23.982435	19.377558	20.096562	24.809356
32.647227	38.895115	35.16021	28.224752
29.900378	25.684323	30.206663	26.084747
23.746084	7.4239256	14.434677	18.88015
35.268184	31.174603	21.377527	33.597295
29.632526	27.560732	29.390462	37.408627
21.746174	17.443844	14.274869	7.648243

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23.575357	24.986124	17.358246	25.479226
32.497698	36.998498	31.592488	29.771111
28.244289	23.446146	19.188482	26.872706
31.155263	23.347847	32.866661	34.199603
28.274022	18.155455	23.277209	33.802938
30.756213	35.404706	40.180526	44.514295
26.121675	33.893952	36.102618	26.676417
9.1253798	14.203139	15.57355	12.521129
24.975393	18.354978	18.551777	33.885496
32.453324	22.939728	24.643571	16.081098
24.901872	11.379805	18.883988	7.2643496
29.09356	21.720456	20.655797	16.989554
18.08937	28.262125	22.5006	11.001308
31.516345	28.810065	37.552986	33.931042
23.362207	18.875905	20.399193	9.1570916
31.807892	27.345152	27.653489	36.184209
18.087948	11.366582	24.227848	10.049044
24.154231	22.220619	36.144452	15.838915
23.924999	28.171115	25.542484	40.651759
25.295217	23.563767	23.298551	26.921706
22.642736	30.949389	33.217084	20.713314
19.853169	27.431928	22.955295	27.640347
28.370232	13.183035	18.960299	25.360637
25.047033	26.302911	30.599147	30.913783
25.390943	26.52101	26.884195	29.555941
23.598801	17.091256	16.886475	18.071149
20.63031	3.759156	-2.206274	7.74507
28.72902	21.621071	23.007534	22.839522
26.792057	19.218022	34.001359	39.329716
21.04674	20.706866	23.073579	20.921195
19.165894	15.699983	17.977226	21.61357
25.48075	18.977644	12.046207	15.129655
29.53828	28.371168	22.772783	12.093337
30.782653	32.88497	28.699342	26.986344
32.440789	25.609927	26.25171	23.590234
20.289224	21.723929	19.965507	16.211991
26.928642	18.214706	22.405847	32.247172
19.221333	29.165069	28.601588	16.520119

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25.487458	23.2116	17.062341	26.758811
29.345549	31.945266	33.49773	41.191739
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27.232016	29.498367	25.596874	18.515073
24.146338	27.329577	21.088405	26.494032
16.050346	18.367639	18.038193	6.3838435
28.313746	30.772538	29.370355	28.221214
23.337658	21.487966	20.216913	20.223808
25.25442	10.844541	8.5031763	7.5686497
27.002828	30.085862	27.442685	27.19473
23.601308	29.238317	30.234909	37.883756
27.95513	23.531936	26.486382	9.3151167
31.178046	20.539419	17.108457	13.768867
20.074788	26.583787	19.745356	16.976102
24.673342	21.140168	14.766361	27.057373
38.191363	34.852832	34.141605	25.698425
32.627374	32.595612	30.339885	17.043973
29.420209	27.796094	21.74575	21.991637
32.818208	21.049508	15.038742	26.567084
24.63796	28.79902	21.540971	22.326697
25.721712	20.830193	26.853125	24.912636
24.168385	30.365395	25.878546	18.503257
33.418974	20.806407	21.610815	22.538205
24.698055	27.450634	28.438615	25.706034
24.882244	25.870855	28.584535	22.260036
22.649474	20.976702	22.922705	23.223958
28.857131	35.136652	41.419221	28.68287
19.281423	27.600511	27.916829	13.651235
18.848004	33.50733	28.855487	7.2709265
32.274491	23.853016	23.536549	25.980334
24.248981	28.559733	28.092649	8.1281047
16.847935	30.382234	31.774444	3.3426309
26.048182	20.170523	21.289773	17.42552
25.642076	25.36789	29.562959	20.957787
19.40516	15.957854	17.00453	28.374365
30.195012	37.866421	27.921771	22.823113
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25.847894	23.246529	16.465996	13.893157

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20.949758	21.247086	14.581008	41.713822
30.351931	34.402889	37.56567	37.536581
25.664503	26.446593	24.54812	26.870835
26.854755	22.183015	18.880598	22.10853
20.552279	32.307255	27.570812	17.757405
36.150787	32.896077	30.420478	26.950375
31.913811	24.224435	19.900318	30.612987
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31.280196	44.581954	36.987807	32.077594
25.328657	31.577807	26.840301	24.883218
25.00724	21.823015	11.654041	20.022633
37.261388	26.986179	33.993038	39.991612
26.974725	29.59106	29.357658	15.280482
28.423295	16.913719	17.253234	24.595165
25.616939	41.104971	36.068997	23.008107
19.316432	24.543141	14.90557	22.137655
20.067827	24.392869	22.339415	7.5020145
22.485616	16.088372	26.96927	10.182897
18.738365	15.199911	20.450419	15.73896
23.050236	25.344532	31.702936	27.562512
27.1562	23.848698	26.120957	17.524367
24.238782	23.962047	18.071108	31.728861
21.034493	12.167702	12.919504	12.72793
22.835684	18.749935	17.688623	28.39414
24.919736	44.436672	39.239688	29.173487
23.402013	21.525497	19.796474	31.710495
26.906205	24.436235	14.480251	16.388228
21.842035	25.828537	20.558738	25.375396
35.081938	27.012847	30.048003	20.982388
31.398713	26.76216	33.634917	33.689338
37.441409	38.803613	35.460184	42.534232
27.558548	32.920154	34.66205	31.133267
35.144887	30.078394	33.330493	27.444082
23.775167	23.416847	23.318839	33.80829
26.093992	13.95996	22.646099	7.2777879
24.678625	28.60282	25.328166	22.803467
32.137485	29.481046	31.411356	45.179728
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32.498934	17.997519	21.145849	18.176001
31.429082	34.496567	27.257002	29.011234
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18.10138	27.586248	23.371303	19.906635
29.617792	31.327495	31.112748	36.423951
29.120546	24.969364	26.332661	19.145625
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28.919937	23.396935	24.26199	37.616341
30.496066	31.584484	28.963032	11.591469
19.380998	23.37238	9.0459185	-0.00591
19.596509	24.958915	11.178621	31.963003
25.895669	19.709165	20.116509	9.8263056
19.385158	10.762951	15.800751	5.8632744
23.282243	17.032233	15.218061	14.881078
19.88513	10.444673	8.4801044	10.458803
36.184468	36.248338	34.953986	42.749927
30.494526	33.584571	34.467971	35.2913
29.330256	36.16652	29.815236	35.133844
22.42115	12.571144	14.05533	18.416632
24.312203	45.416984	34.996732	40.058907
18.39726	21.740444	35.733454	24.815873
30.373608	28.47986	31.359706	35.293665
25.809698	16.01819	16.154122	25.175137
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20.179116	9.405757	26.457832	17.114842
21.810713	22.903292	19.873263	10.080142
35.439982	39.155419	40.241908	40.367702
28.438072	28.641926	27.855212	33.83918
19.623578	38.661245	30.703458	19.20752
26.313642	36.650713	31.226759	36.075599
24.816779	13.309742	11.218822	13.25284
22.728474	26.889136	18.89763	30.863996
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16.862873	28.871398	27.148856	17.971474
28.273467	24.574912	32.872292	27.236188
25.217666	31.511184	36.376359	25.251562
31.845793	32.800046	26.541004	26.564071
25.80968	27.743474	22.206718	26.720916

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27.367444	25.89257	23.082918	11.945243
22.644865	19.254831	18.835814	26.821971
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28.258092	15.950968	21.401179	20.840488
30.326702	25.248909	26.463526	16.171347
26.527978	23.197558	23.256834	20.597311
28.855044	18.995071	20.999655	37.840339
22.097996	24.06911	6.4468698	21.088893
24.141892	21.445317	13.855492	31.685401
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22.528901	18.841533	23.221792	16.503624
26.983178	15.335289	27.025377	24.164179
21.282003	20.932622	25.469913	22.093781
26.835473	29.205524	29.223991	27.134147
28.407716	34.322445	34.8363	31.968212
30.27817	34.427	30.282747	24.725041
25.349315	27.224173	15.316692	29.381412
32.83179	27.175814	28.702608	17.924265
33.333815	27.336755	37.302352	40.430989
28.284838	30.295659	23.474561	27.768005
27.459663	34.098585	27.396051	28.700091
22.870036	29.131037	24.39797	36.346477
22.075365	33.07717	19.870964	6.8982164
21.610786	18.839385	21.679335	18.156369
33.762754	26.691027	28.511241	33.486643
26.582307	16.903912	17.770182	30.286661
23.347109	31.709364	25.924822	35.374168
33.606839	45.587259	33.320786	35.269476
25.295217	18.876741	15.764936	21.532199
29.37959	25.728966	19.713791	32.343118
35.659237	34.664102	45.038456	32.488887
21.053613	18.675302	22.988472	29.071661
26.809099	34.299688	25.466816	37.612559
27.794026	31.614093	28.611257	23.985615
26.641644	13.388638	14.957504	25.03332
23.704526	18.152189	14.29531	12.931855
32.552137	20.571836	27.541096	24.095919
20.496474	29.653745	32.84796	32.888146

y			
24.420901	33.377429	32.510517	30.534371
30.443755	35.239734	31.934913	37.020612
30.524653	26.562618	32.696626	36.506827
29.356598	28.144693	27.080323	30.769786
32.157581	26.730823	24.702416	21.08651
21.08137	25.787848	17.777846	23.890454
22.330552	26.522483	32.146005	20.522239
32.012005	27.458574	32.297815	20.839048
23.501845	24.587984	28.217654	23.467999
29.673375	21.73402	16.631531	29.328599
26.949494	28.019286	31.871831	23.942949
29.879434	26.157339	24.930915	36.593678

Upper Cholesky root:

U			
5.0	3.0	3.0	4.6
0.0	7.1	4.9	3.1
0.0	0.0	5.3	0.7
0.0	0.0	0.0	7.3

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

UtU			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

	n
Simulation: n =	1000

mu, sample mean:

mu	ybar
26	26.290783
25	25.40372
24	24.555257
24	24.478302

sigma, sample covariance:

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

s			
25.319332	15.919409	16.555618	23.988471
15.919409	60.80174	45.206247	39.424447
16.555618	45.206247	62.317727	35.998261
23.988471	39.424447	35.998261	85.603987

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Upper Cholesky root:

U			
5.0	3.0	3.0	4.6
0.0	7.1	4.9	3.1
0.0	0.0	5.3	0.7
0.0	0.0	0.0	7.3

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

UtU			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

	n
Simulation: n =	1000

mu, sample mean:

mu	ybar
26	26.290783
25	25.40372
24	24.555257
24	24.478302

sigma, sample covariance:

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

s			
25.319332	15.919409	16.555618	23.988471
15.919409	60.80174	45.206247	39.424447
16.555618	45.206247	62.317727	35.998261
23.988471	39.424447	35.998261	85.603987

U			
5	3	3	4.6
0	7.0710678	4.9497475	3.1395541
0	0	5.3385391	0.6855808
0	0	0	7.3152703

Upper Cholesky root:

U			
5.0	3.0	3.0	4.6
0.0	7.1	4.9	3.1
0.0	0.0	5.3	0.7
0.0	0.0	0.0	7.3

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

UtU			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

	n
Simulation: n =	1000

mu, sample mean:

mu	ybar
26	26.290783
25	25.40372
24	24.555257
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sigma, sample covariance:

sigma			
25	15	15	23
15	59	44	36
15	44	62	33
23	36	33	85

s			
25.319332	15.919409	16.555618	23.988471
15.919409	60.80174	45.206247	39.424447
16.555618	45.206247	62.317727	35.998261
23.988471	39.424447	35.998261	85.603987