

# PCA

```
#####Importing the Dataset#####
```

```
emp_churn <- read.csv("C:/Users/Amisha Sancheti/Desktop/MITA sem2/Multivariate Analysis/Project/WA_Fn-U
```

```
str(emp_churn)
```

```
## 'data.frame': 1470 obs. of 35 variables:
## $ i..Age : int 41 49 37 33 27 32 59 30 38 36 ...
## $ Attrition : Factor w/ 2 levels "No","Yes": 2 1 2 1 1 1 1 1 1 ...
## $ BusinessTravel : Factor w/ 3 levels "Non-Travel","Travel_Frequently",...: 3 2 3 2 3 2 3 3
## $ DailyRate : int 1102 279 1373 1392 591 1005 1324 1358 216 1299 ...
## $ Department : Factor w/ 3 levels "Human Resources",...: 3 2 2 2 2 2 2 2 2 ...
## $ DistanceFromHome : int 1 8 2 3 2 2 3 24 23 27 ...
## $ Education : int 2 1 2 4 1 2 3 1 3 3 ...
## $ EducationField : Factor w/ 6 levels "Human Resources",...: 2 2 5 2 4 2 4 2 2 4 ...
## $ EmployeeCount : int 1 1 1 1 1 1 1 1 1 1 ...
## $ EmployeeNumber : int 1 2 4 5 7 8 10 11 12 13 ...
## $ EnvironmentSatisfaction : int 2 3 4 4 1 4 3 4 4 3 ...
## $ Gender : Factor w/ 2 levels "Female","Male": 1 2 2 1 2 2 1 2 2 2 ...
## $ HourlyRate : int 94 61 92 56 40 79 81 67 44 94 ...
## $ JobInvolvement : int 3 2 2 3 3 3 4 3 2 3 ...
## $ JobLevel : int 2 2 1 1 1 1 1 1 3 2 ...
## $ JobRole : Factor w/ 9 levels "Healthcare Representative",...: 8 7 3 7 3 3 3 3 5 1
## $ JobSatisfaction : int 4 2 3 3 2 4 1 3 3 3 ...
## $ MaritalStatus : Factor w/ 3 levels "Divorced","Married",...: 3 2 3 2 2 3 2 1 3 2 ...
## $ MonthlyIncome : int 5993 5130 2090 2909 3468 3068 2670 2693 9526 5237 ...
## $ MonthlyRate : int 19479 24907 2396 23159 16632 11864 9964 13335 8787 16577 ...
## $ NumCompaniesWorked : int 8 1 6 1 9 0 4 1 0 6 ...
## $ Over18 : Factor w/ 1 level "Y": 1 1 1 1 1 1 1 1 1 1 ...
## $ OverTime : Factor w/ 2 levels "No","Yes": 2 1 2 2 1 1 2 1 1 1 ...
## $ PercentSalaryHike : int 11 23 15 11 12 13 20 22 21 13 ...
## $ PerformanceRating : int 3 4 3 3 3 3 4 4 4 3 ...
## $ RelationshipSatisfaction: int 1 4 2 3 4 3 1 2 2 2 ...
## $ StandardHours : int 80 80 80 80 80 80 80 80 80 80 ...
## $ StockOptionLevel : int 0 1 0 0 1 0 3 1 0 2 ...
## $ TotalWorkingYears : int 8 10 7 8 6 8 12 1 10 17 ...
## $ TrainingTimesLastYear : int 0 3 3 3 3 2 3 2 2 3 ...
## $ WorkLifeBalance : int 1 3 3 3 3 2 2 3 3 2 ...
## $ YearsAtCompany : int 6 10 0 8 2 7 1 1 9 7 ...
## $ YearsInCurrentRole : int 4 7 0 7 2 7 0 0 7 7 ...
## $ YearsSinceLastPromotion : int 0 1 0 3 2 3 0 0 1 7 ...
## $ YearsWithCurrManager : int 5 7 0 0 2 6 0 0 8 7 ...
```

```
##Converting factors in integers by level encoding.
```

```
emp_churn$Attrition <-as.integer(as.factor(emp_churn$Attrition))
```

```
emp_churn$BusinessTravel <-as.integer(as.factor(emp_churn$BusinessTravel))
```

```
emp_churn$Department <-as.integer(as.factor(emp_churn$Department))
emp_churn$EducationField <-as.integer(as.factor(emp_churn$EducationField))
emp_churn$Gender <-as.integer(as.factor(emp_churn$Gender))
emp_churn$JobRole <-as.integer(as.factor(emp_churn$JobRole))
emp_churn$MaritalStatus <-as.integer(as.factor(emp_churn$MaritalStatus))
emp_churn$Over18 <-as.integer(as.factor(emp_churn$Over18))
emp_churn$OverTime <-as.integer(as.factor(emp_churn$OverTime))
```

```
emp_pca <- prcomp(emp_churn[, which(apply(emp_churn, 2, var) != 0)],scale.=TRUE)
emp_pca
```

```
## Standard deviations (1, ..., p=32):
```

```
## [1] 2.1759457 1.3818908 1.3461309 1.3158896 1.2636260 1.1412018 1.0920421
## [8] 1.0697527 1.0611954 1.0362341 1.0267322 1.0163191 1.0029624 1.0005006
## [15] 0.9824203 0.9738426 0.9689810 0.9515259 0.9397410 0.9327753 0.9215221
## [22] 0.8784389 0.7797522 0.7204740 0.7000265 0.5703871 0.5637817 0.5278234
## [29] 0.4736000 0.4473075 0.3749341 0.2151410
##
```

```
## Rotation (n x k) = (32 x 32):
```

	PC1	PC2	PC3	PC4
## i..Age	-0.2770835197	0.28772859	-0.066409841	0.207061847
## Attrition	0.1136550999	-0.14403631	-0.118905631	0.212008954
## BusinessTravel	-0.0035052736	0.04655590	-0.073709829	0.044213515
## DailyRate	0.0009288049	0.08793151	0.043851312	-0.041835991
## Department	-0.0107687126	-0.34525178	-0.196335630	0.061287585
## DistanceFromHome	-0.0019088131	-0.02583387	0.058454831	0.004900222
## Education	-0.0768008863	0.11338338	-0.062455898	0.088757850
## EducationField	0.0198131006	-0.05361893	-0.015323844	-0.029654125
## EmployeeNumber	0.0073996296	0.03236600	0.008820132	-0.072348196
## EnvironmentSatisfaction	-0.0055815999	0.02896701	-0.027925502	-0.053261509
## Gender	0.0265875658	0.03833218	0.040903781	-0.074988585
## HourlyRate	0.0087825077	0.07823356	0.010843543	-0.027918669
## JobInvolvement	-0.0034493545	0.08164235	0.002271699	-0.086314491
## JobLevel	-0.3793882155	0.11811398	-0.104013181	0.161859039
## JobRole	0.0629459820	-0.35455723	-0.181978649	0.036564769
## JobSatisfaction	0.0063335636	-0.02578727	0.031124601	-0.019235575
## MaritalStatus	0.0597723550	-0.30720135	-0.219653232	0.426864671
## MonthlyIncome	-0.3712110884	0.13779508	-0.100270795	0.172974561
## MonthlyRate	-0.0047312655	0.01027027	-0.061421088	0.091327652
## NumCompaniesWorked	-0.0480513180	0.35650130	-0.117228321	0.262473227
## OverTime	0.0120943643	-0.01654755	-0.061509397	0.104286626
## PercentSalaryHike	0.0150336175	-0.07716826	0.594989308	0.339297006
## PerformanceRating	-0.0002238331	-0.09023957	0.601252308	0.332127572
## RelationshipSatisfaction	-0.0160215694	0.04745802	-0.072798540	0.039892019
## StockOptionLevel	-0.0304765158	0.26576622	0.229954227	-0.439641835
## TotalWorkingYears	-0.3999927618	0.15020663	-0.058671662	0.158759709
## TrainingTimesLastYear	0.0091535670	-0.05150389	0.003082895	-0.079229528
## WorkLifeBalance	-0.0134308045	-0.03988636	-0.010969978	-0.023318338
## YearsAtCompany	-0.3856623757	-0.22155889	0.053420664	-0.130771605
## YearsInCurrentRole	-0.3318982990	-0.26386848	0.101139681	-0.182806894
## YearsSinceLastPromotion	-0.2905036466	-0.22046259	0.044515900	-0.101603691
## YearsWithCurrManager	-0.3259780930	-0.26937290	0.092224859	-0.180796337
##	PC5	PC6	PC7	PC8

## i..Age	-0.0949872076	0.019460202	-0.021170816	-0.029395233
## Attrition	0.0398252327	-0.562644140	-0.056986335	0.041906049
## BusinessTravel	-0.0008369589	0.048109040	-0.107046510	-0.049439133
## DailyRate	-0.0926389243	0.093919786	0.234345939	-0.331681437
## Department	-0.5702997579	0.066545839	-0.009562634	-0.021237433
## DistanceFromHome	-0.0473072483	-0.295157581	-0.126756879	-0.061546135
## Education	-0.0832699425	0.010154387	-0.338411482	-0.158517819
## EducationField	0.0174605940	0.048175780	0.068076843	0.117244693
## EmployeeNumber	-0.0166440153	-0.051357696	-0.399925510	0.333722017
## EnvironmentSatisfaction	0.0353437338	0.067564729	0.327433137	0.216826540
## Gender	0.0660038200	-0.030838305	0.028199945	-0.098532582
## HourlyRate	-0.0409587064	-0.070007154	-0.387438203	-0.231433720
## JobInvolvement	-0.0287700246	0.181012227	-0.108821681	-0.479926771
## JobLevel	-0.1139178351	0.041212181	0.074257668	0.100182859
## JobRole	-0.5523060979	0.061392430	-0.010787925	-0.068212811
## JobSatisfaction	-0.0305186113	0.173804009	0.393740217	-0.075911489
## MaritalStatus	0.3092362441	0.174419279	-0.086487867	-0.061673797
## MonthlyIncome	-0.0956631652	0.038643066	0.074249401	0.098984203
## MonthlyRate	-0.0249604492	-0.040654462	0.106264512	0.330874181
## NumCompaniesWorked	-0.1326809959	-0.032205012	-0.082597602	-0.030579702
## OverTime	-0.0490415572	-0.515701519	0.326797352	-0.048766671
## PercentSalaryHike	-0.1246460690	0.050321166	-0.001410505	-0.001058593
## PerformanceRating	-0.0966936243	0.022018769	-0.001705063	0.009164059
## RelationshipSatisfaction	0.0646155109	0.042008819	0.222845139	-0.288532746
## StockOptionLevel	-0.3476466680	-0.173717446	0.013509570	0.092705126
## TotalWorkingYears	-0.0337829316	-0.007033426	0.011671275	0.022878943
## TrainingTimesLastYear	-0.0040561137	0.305531990	-0.100172910	0.239698716
## WorkLifeBalance	-0.0312430115	0.214026237	-0.023171104	0.281934612
## YearsAtCompany	0.1133817685	-0.065715209	-0.012376206	-0.031511252
## YearsInCurrentRole	0.0761967400	-0.033222281	-0.028032331	-0.058667194
## YearsSinceLastPromotion	0.0968131493	-0.123125769	-0.016026205	-0.015874801
## YearsWithCurrManager	0.1151213032	-0.033914403	-0.066303968	-0.094327650
##	PC9	PC10	PC11	PC12
## i..Age	0.011386034	0.033244482	0.0023861825	0.0282189762
## Attrition	-0.058171560	-0.139132738	-0.1754665266	0.0311424677
## BusinessTravel	-0.379722242	-0.309928799	0.2888682871	0.1687621623
## DailyRate	-0.235791159	-0.148809808	0.0668352918	0.0424838968
## Department	0.023566211	0.011904492	-0.0353475590	-0.0007595333
## DistanceFromHome	0.084297097	0.210882314	0.1529079574	-0.2014371920
## Education	0.145937447	0.220334584	0.0383766952	0.2960086741
## EducationField	-0.511442816	0.018958785	-0.2722466931	0.2328414184
## EmployeeNumber	0.087360703	0.212689505	0.1530012761	0.2203063128
## EnvironmentSatisfaction	-0.247560137	0.456441647	0.2687161399	0.2932670942
## Gender	0.312027241	0.114236044	-0.3816451670	0.2858798931
## HourlyRate	-0.152186238	0.021352056	0.0454294911	-0.2895386903
## JobInvolvement	-0.140552067	0.271579693	0.2724818463	0.0079303370
## JobLevel	0.040204157	-0.084924045	-0.0296981366	-0.0421416919
## JobRole	0.011732615	0.060427936	-0.0089933597	0.0465244909
## JobSatisfaction	0.435501461	-0.132420669	0.1871971502	0.1370598427
## MaritalStatus	0.022110985	0.052422048	0.0759396696	0.0432182520
## MonthlyIncome	0.029954096	-0.101703791	-0.0372251116	-0.0386330030
## MonthlyRate	0.068183132	0.198349865	0.3963006909	-0.4367749546
## NumCompaniesWorked	-0.074364176	0.082092859	-0.1282737130	0.0827139681
## OverTime	-0.185324318	0.084956579	0.1081523750	0.0505483622

## PercentSalaryHike	-0.030383879	0.034672127	0.0026192936	0.0152712038
## PerformanceRating	-0.054812638	0.032796600	-0.0115493961	0.0035168769
## RelationshipSatisfaction	-0.055612111	0.372990474	-0.3497504063	-0.4123992900
## StockOptionLevel	-0.007520281	-0.034153010	-0.0421672899	-0.0307175421
## TotalWorkingYears	-0.007693625	-0.044644231	-0.0113338164	0.0099773121
## TrainingTimesLastYear	-0.175949444	-0.244139703	-0.1068493800	-0.2902774103
## WorkLifeBalance	-0.132214896	0.349199161	-0.3063154751	-0.0402246676
## YearsAtCompany	-0.008835292	-0.008263972	0.0008497405	0.0018549084
## YearsInCurrentRole	-0.045620424	0.048656714	0.0437367105	0.0307152128
## YearsSinceLastPromotion	-0.031961934	0.047847665	-0.0518801674	-0.0041542856
## YearsWithCurrManager	-0.029849743	0.036891422	0.0300814131	0.0301815490
##	PC13	PC14	PC15	PC16
## i..Age	0.046042528	0.050348387	-0.049688834	-0.0532602212
## Attrition	0.023932388	0.026043592	-0.015682372	-0.0292474689
## BusinessTravel	-0.389896766	-0.228210168	-0.355942727	-0.0434886132
## DailyRate	0.459687502	-0.042505161	0.334959667	0.2378903569
## Department	0.012626622	-0.060585561	0.054879501	-0.0572759890
## DistanceFromHome	0.472110409	-0.224591184	-0.426369384	0.1582871802
## Education	0.095129646	0.446530184	-0.227283994	0.0440416541
## EducationField	0.401029384	-0.123006372	-0.190040547	-0.0175774019
## EmployeeNumber	0.191748019	-0.172894283	0.053527296	-0.1271919499
## EnvironmentSatisfaction	0.001329338	-0.028177832	0.213613143	-0.0923547755
## Gender	-0.040327063	-0.602233696	0.026514457	-0.2294605813
## HourlyRate	-0.052318231	-0.285506972	0.268837770	0.3703085651
## JobInvolvement	-0.098335530	-0.153344777	-0.192316003	-0.2102168301
## JobLevel	-0.004906955	-0.186536564	-0.019012700	0.0304093001
## JobRole	-0.048231789	-0.005064548	0.037262302	-0.0643617405
## JobSatisfaction	0.138859429	-0.013367214	-0.330781739	0.2724372595
## MaritalStatus	0.082546528	-0.036574120	0.020359130	0.0622303920
## MonthlyIncome	-0.019485362	-0.198209607	-0.010759238	0.0290013680
## MonthlyRate	0.040089762	-0.103927718	0.099750989	-0.1235679599
## NumCompaniesWorked	0.062400317	0.212716009	0.141047871	-0.0650108641
## OverTime	-0.148945656	0.028121772	-0.189661820	0.0557740678
## PercentSalaryHike	-0.021382642	-0.022254354	-0.008805833	-0.0449000831
## PerformanceRating	-0.052677407	-0.005596156	0.002921961	-0.0418947061
## RelationshipSatisfaction	-0.067566641	0.067048963	-0.145951501	-0.2518170448
## StockOptionLevel	-0.058114543	0.075081663	-0.060976600	-0.0141079547
## TotalWorkingYears	0.027388010	-0.056992171	-0.004494832	-0.0004876817
## TrainingTimesLastYear	0.235591614	0.083137173	-0.282034260	-0.2993324075
## WorkLifeBalance	-0.256613262	-0.018935573	-0.201157207	0.6157086648
## YearsAtCompany	-0.012365447	0.020368542	0.008021149	-0.0062796972
## YearsInCurrentRole	-0.004901715	0.076741425	0.037336388	0.0347626124
## YearsSinceLastPromotion	0.015198321	0.099757561	0.047840343	-0.0626768022
## YearsWithCurrManager	-0.007261608	0.077262782	0.031046529	-0.0264053087
##	PC17	PC18	PC19	PC20
## i..Age	-0.061520458	-0.0012482070	-0.07707899	0.050299317
## Attrition	0.014118431	0.1612279880	-0.04274683	-0.128057129
## BusinessTravel	0.063597666	-0.2414656821	-0.20488229	-0.237817641
## DailyRate	-0.062074497	0.1770607441	0.04530541	-0.487345296
## Department	-0.007396933	-0.0538256233	-0.01269543	0.003207010
## DistanceFromHome	0.212550788	-0.4037222068	0.13980002	-0.157956284
## Education	-0.034521472	0.0988650668	-0.37423925	-0.199585926
## EducationField	0.211645964	0.1411067996	-0.18560067	0.489591978
## EmployeeNumber	-0.413040066	0.1256979308	0.29306030	0.043315824

## EnvironmentSatisfaction	-0.170896553	-0.3692161078	-0.13508967	-0.088963136
## Gender	0.023270017	0.1166135747	-0.31487669	-0.262575468
## HourlyRate	-0.351558857	-0.0796312138	-0.37763415	0.280627057
## JobInvolvement	0.117895187	0.4340104459	0.28360233	0.104382137
## JobLevel	-0.014940230	0.0001213582	0.15224527	0.008285653
## JobRole	0.004997254	-0.0380169872	-0.00880268	0.024079354
## JobSatisfaction	-0.232218821	0.0621010126	-0.23353056	0.270677162
## MaritalStatus	-0.066259478	-0.0229097159	0.01719825	0.001662669
## MonthlyIncome	-0.026262690	0.0093343022	0.15101765	0.012681653
## MonthlyRate	0.310794699	0.3628567046	-0.40541012	-0.063367547
## NumCompaniesWorked	0.137970955	-0.0473091191	-0.09045145	0.028066989
## OverTime	-0.403540587	0.2891388668	0.04972583	0.001730961
## PercentSalaryHike	-0.027651889	0.0071484694	-0.01252173	-0.010509643
## PerformanceRating	-0.024294533	0.0018958798	-0.01374997	0.011622309
## RelationshipSatisfaction	-0.218355762	-0.2148010428	-0.02715567	0.007985655
## StockOptionLevel	0.015981326	-0.0139232629	-0.04713257	0.022131471
## TotalWorkingYears	-0.010516775	0.0022359306	0.02727865	0.027610436
## TrainingTimesLastYear	-0.405888548	0.1163806168	-0.13031494	-0.263666506
## WorkLifeBalance	0.062985220	0.2098812174	0.09337942	-0.247947572
## YearsAtCompany	-0.022108465	0.0077801529	-0.03889449	-0.006450595
## YearsInCurrentRole	0.035052168	0.0229192743	-0.06838993	-0.049428225
## YearsSinceLastPromotion	0.017715733	0.0154796871	-0.11619346	-0.014084205
## YearsWithCurrManager	0.034429536	0.0108079009	-0.04824859	-0.001625552
##	PC21	PC22	PC23	PC24
## i..Age	0.0537969186	0.0437720623	-0.340459637	0.602941808
## Attrition	0.0319656905	0.2099574728	0.480551613	0.035754519
## BusinessTravel	-0.3544885453	0.0315789283	0.019887629	0.017306882
## DailyRate	-0.2337813082	-0.0651573879	0.029020180	0.047518192
## Department	0.0050356887	0.0141581881	0.024430430	0.015001097
## DistanceFromHome	0.1223545889	0.0805698235	-0.099337169	-0.008331012
## Education	0.0670657290	-0.4011323997	0.161363024	-0.112126555
## EducationField	-0.0815867376	-0.1599147397	-0.006988212	-0.018615276
## EmployeeNumber	-0.4799057702	0.0267238673	0.016759602	0.013326337
## EnvironmentSatisfaction	0.2951042053	0.0866218017	0.220723088	-0.008915086
## Gender	0.0893876692	0.0385149396	-0.144347568	-0.027451380
## HourlyRate	0.1406894468	0.0284640844	0.065886519	-0.031722561
## JobInvolvement	0.2082190801	0.2024249450	0.211043672	0.021145463
## JobLevel	0.0800586564	-0.1614387797	0.236649545	-0.188241526
## JobRole	-0.0239084676	0.0119205179	-0.118045593	0.046037044
## JobSatisfaction	-0.1725261289	0.2869827680	0.178068723	-0.024898742
## MaritalStatus	-0.0008727769	0.0382139762	-0.054566119	-0.025835452
## MonthlyIncome	0.0680425501	-0.1713585454	0.257554534	-0.190044068
## MonthlyRate	-0.1760024946	-0.0705750683	-0.024181296	-0.032648348
## NumCompaniesWorked	-0.1318238858	0.6347703038	-0.136128194	-0.349406352
## OverTime	0.1059946720	-0.0927927555	-0.366673534	-0.101733396
## PercentSalaryHike	-0.0094861301	-0.0154268223	0.020974620	-0.010175635
## PerformanceRating	-0.0164106483	-0.0027439750	0.040517511	-0.010375051
## RelationshipSatisfaction	-0.4279018761	-0.1270242354	0.130346338	-0.043542326
## StockOptionLevel	-0.0359274214	0.0321140583	0.113437513	-0.024407202
## TotalWorkingYears	0.0263654998	-0.0009871573	-0.075014140	0.064408156
## TrainingTimesLastYear	0.3175583569	0.1999239815	-0.018462638	-0.061633811
## WorkLifeBalance	-0.0228625921	0.1416348661	-0.001194357	0.070184242
## YearsAtCompany	-0.0249066413	0.0233495047	-0.030967188	-0.063599848
## YearsInCurrentRole	-0.0713322516	0.1282931818	-0.139258071	-0.190763910

## YearsSinceLastPromotion	-0.0770110699	0.2207959131	0.281670824	0.527986618
## YearsWithCurrManager	-0.0408223662	0.0706379597	-0.185820442	-0.271491314
##	PC25	PC26	PC27	PC28
## i..Age	-0.3771954985	-0.060460030	0.0419731776	0.039326263
## Attrition	-0.4459008967	0.037359620	-0.0421282163	0.019603495
## BusinessTravel	0.0120808398	0.007614621	0.0185421073	-0.017602703
## DailyRate	-0.0161919075	-0.016870941	-0.0289247015	-0.036585944
## Department	-0.0135919675	-0.183840648	0.6636483039	-0.071879653
## DistanceFromHome	0.0724395113	0.031481256	-0.0082064852	-0.006893946
## Education	0.0725511525	0.029715486	0.0170369635	0.005302011
## EducationField	0.0070047292	-0.004651991	-0.0009736878	0.012833791
## EmployeeNumber	-0.0233256264	0.048377727	0.0154581965	-0.003344161
## EnvironmentSatisfaction	-0.1296927799	0.016811318	-0.0128751364	-0.014918510
## Gender	0.0632131129	-0.037768449	-0.0116741462	0.007928205
## HourlyRate	0.0093298834	0.040903028	-0.0109444516	0.002792229
## JobInvolvement	-0.0603760213	-0.012866643	0.0110614873	0.009413617
## JobLevel	0.0985817428	-0.027258352	-0.0051875850	0.015520703
## JobRole	-0.0032136187	0.225962367	-0.6582684572	0.046230026
## JobSatisfaction	-0.0882657004	0.055425577	-0.0009585135	-0.023317674
## MaritalStatus	0.0427369788	-0.673383104	-0.2026682158	0.035561455
## MonthlyIncome	0.1279291118	0.014157813	-0.0997889437	0.039878139
## MonthlyRate	-0.0124976367	-0.006654447	-0.0161238550	-0.019587224
## NumCompaniesWorked	0.2144637151	0.030063362	0.0162062207	-0.026619977
## OverTime	0.2686228392	-0.040639952	0.0433513016	-0.014740090
## PercentSalaryHike	-0.0002103328	-0.021855178	-0.0194528188	-0.008652317
## PerformanceRating	0.0000410718	0.037400959	0.0213004223	-0.004746915
## RelationshipSatisfaction	-0.0975015934	-0.007518596	-0.0020744265	0.019597567
## StockOptionLevel	-0.0527966393	-0.658894504	-0.2159350458	0.009485927
## TotalWorkingYears	-0.1282030050	0.016373350	-0.0925595392	-0.053574139
## TrainingTimesLastYear	0.0141578796	0.031428985	-0.0325388641	0.004569058
## WorkLifeBalance	-0.0570100099	0.016223815	0.0054898183	-0.051860227
## YearsAtCompany	-0.1184022773	0.058791102	-0.0322642083	-0.068691201
## YearsInCurrentRole	-0.1154082056	-0.003584704	0.0881614608	0.760387060
## YearsSinceLastPromotion	0.5983059702	-0.003565705	-0.0207086904	-0.081969984
## YearsWithCurrManager	-0.2261427444	-0.028811102	-0.0238754237	-0.622700915
##	PC29	PC30	PC31	PC32
## i..Age	0.052217885	-0.2615582304	0.2310758920	-0.0120977830
## Attrition	0.025747284	-0.0421965911	-0.0256497756	0.0048347288
## BusinessTravel	0.005791215	-0.0070978465	0.0093264776	0.0095107389
## DailyRate	-0.018796127	-0.0008178897	0.0220086073	0.0040412746
## Department	-0.016091406	0.0851678195	-0.0272120112	-0.0640107694
## DistanceFromHome	-0.012562471	-0.0021741659	0.0122194407	-0.0154314006
## Education	-0.014608356	0.0153241082	-0.0040241375	-0.0019836227
## EducationField	0.006579047	-0.0052743899	0.0129279175	0.0036727642
## EmployeeNumber	-0.002796943	-0.0063853921	-0.0009168551	0.0039490321
## EnvironmentSatisfaction	0.002003020	0.0025894535	-0.0082471156	-0.0055094819
## Gender	-0.017810710	-0.0018923829	-0.0018760241	0.0039033078
## HourlyRate	0.011438791	-0.0100413489	-0.0048715500	0.0101050482
## JobInvolvement	-0.011761366	0.0286160736	0.0053266741	-0.0025145793
## JobLevel	0.033192297	-0.1983608870	0.1070590309	0.7192062823
## JobRole	-0.014544997	-0.0328899317	0.0148910142	0.0379668074
## JobSatisfaction	-0.006782743	-0.0141370072	-0.0142456796	-0.0022431852
## MaritalStatus	-0.040003802	0.0240291729	0.0287060247	-0.0043116247
## MonthlyIncome	0.048838427	-0.1985779361	0.1306049382	-0.6894657821

```
## MonthlyRate -0.004042623 0.0061714160 0.0110695305 -0.0026288647
## NumCompaniesWorked 0.007073183 0.0249510530 0.1140737575 0.0033791410
## OverTime 0.003554601 -0.0007879052 0.0055559710 0.0017713734
## PercentSalaryHike 0.692213074 0.1332898805 -0.0358850913 0.0101309667
## PerformanceRating -0.692404142 -0.1198771769 0.0519513129 -0.0038017679
## RelationshipSatisfaction 0.007294064 -0.0021780096 -0.0245477790 0.0028701930
## StockOptionLevel -0.037110124 0.0375955590 0.0119643564 -0.0076816916
## TotalWorkingYears -0.138742785 0.5093506210 -0.6794315422 -0.0098628810
## TrainingTimesLastYear -0.008949345 -0.0062798627 -0.0137765538 -0.0003836094
## WorkLifeBalance 0.003633652 0.0108601541 -0.0007265140 -0.0053738876
## YearsAtCompany -0.056230088 0.5896424085 0.6170111109 0.0053180444
## YearsInCurrentRole 0.041361626 -0.1999692542 -0.1495894024 -0.0061315187
## YearsSinceLastPromotion 0.028094913 -0.0853934665 -0.0830551251 0.0092241429
## YearsWithCurrManager 0.067160160 -0.3896860742 -0.1572100596 -0.0251400627
```

```
summary(emp_pca)
```

```
## Importance of components:
##          PC1      PC2      PC3      PC4      PC5      PC6      PC7
## Standard deviation 2.176 1.38189 1.34613 1.31589 1.2636 1.1412 1.09204
## Proportion of Variance 0.148 0.05968 0.05663 0.05411 0.0499 0.0407 0.03727
## Cumulative Proportion 0.148 0.20764 0.26426 0.31837 0.3683 0.4090 0.44624
##          PC8      PC9      PC10      PC11      PC12      PC13      PC14
## Standard deviation 1.06975 1.06120 1.03623 1.02673 1.01632 1.00296 1.00050
## Proportion of Variance 0.03576 0.03519 0.03356 0.03294 0.03228 0.03144 0.03128
## Cumulative Proportion 0.48200 0.51719 0.55075 0.58369 0.61597 0.64740 0.67869
##          PC15      PC16      PC17      PC18      PC19      PC20      PC21
## Standard deviation 0.98242 0.97384 0.96898 0.95153 0.9397 0.93278 0.92152
## Proportion of Variance 0.03016 0.02964 0.02934 0.02829 0.0276 0.02719 0.02654
## Cumulative Proportion 0.70885 0.73848 0.76782 0.79612 0.8237 0.85091 0.87744
##          PC22      PC23      PC24      PC25      PC26      PC27      PC28
## Standard deviation 0.87844 0.7798 0.72047 0.70003 0.57039 0.56378 0.52782
## Proportion of Variance 0.02411 0.0190 0.01622 0.01531 0.01017 0.00993 0.00871
## Cumulative Proportion 0.90156 0.9206 0.93678 0.95209 0.96226 0.97219 0.98090
##          PC29      PC30      PC31      PC32
## Standard deviation 0.47360 0.44731 0.37493 0.21514
## Proportion of Variance 0.00701 0.00625 0.00439 0.00145
## Cumulative Proportion 0.98791 0.99416 0.99855 1.00000
```

```
(eigen_emp <- emp_pca$sdev^2)
```

```
## [1] 4.73473973 1.90962218 1.81206848 1.73156546 1.59675057 1.30234166
## [7] 1.19255595 1.14437079 1.12613565 1.07378104 1.05417892 1.03290460
## [13] 1.00593363 1.00100148 0.96514960 0.94836947 0.93892422 0.90540156
## [19] 0.88311307 0.87006975 0.84920302 0.77165486 0.60801352 0.51908275
## [25] 0.49003716 0.32534143 0.31784975 0.27859751 0.22429692 0.20008403
## [31] 0.14057561 0.04628563
```

```
names(eigen_emp) <- paste("PC",1:32,sep="")
eigen_emp
```

```
##          PC1      PC2      PC3      PC4      PC5      PC6      PC7
```

```
## 4.73473973 1.90962218 1.81206848 1.73156546 1.59675057 1.30234166 1.19255595
##      PC8      PC9      PC10      PC11      PC12      PC13      PC14
## 1.14437079 1.12613565 1.07378104 1.05417892 1.03290460 1.00593363 1.00100148
##      PC15      PC16      PC17      PC18      PC19      PC20      PC21
## 0.96514960 0.94836947 0.93892422 0.90540156 0.88311307 0.87006975 0.84920302
##      PC22      PC23      PC24      PC25      PC26      PC27      PC28
## 0.77165486 0.60801352 0.51908275 0.49003716 0.32534143 0.31784975 0.27859751
##      PC29      PC30      PC31      PC32
## 0.22429692 0.20008403 0.14057561 0.04628563
```

```
sumlambdas <- sum(eigen_emp)
sumlambdas
```

```
## [1] 32
```

```
propvar <- eigen_emp/sumlambdas
propvar
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6
## 0.147960617 0.059675693 0.056627140 0.054111421 0.049898455 0.040698177
##      PC7      PC8      PC9      PC10      PC11      PC12
## 0.037267373 0.035761587 0.035191739 0.033555657 0.032943091 0.032278269
##      PC13      PC14      PC15      PC16      PC17      PC18
## 0.031435426 0.031281296 0.030160925 0.029636546 0.029341382 0.028293799
##      PC19      PC20      PC21      PC22      PC23      PC24
## 0.027597283 0.027189680 0.026537594 0.024114214 0.019000422 0.016221336
##      PC25      PC26      PC27      PC28      PC29      PC30
## 0.015313661 0.010166920 0.009932805 0.008706172 0.007009279 0.006252626
##      PC31      PC32
## 0.004392988 0.001446426
```

```
cumvar_emp <- cumsum(propvar)
cumvar_emp
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6      PC7      PC8
## 0.1479606 0.2076363 0.2642634 0.3183749 0.3682733 0.4089715 0.4462389 0.4820005
##      PC9      PC10      PC11      PC12      PC13      PC14      PC15      PC16
## 0.5171922 0.5507479 0.5836910 0.6159692 0.6474046 0.6786859 0.7088469 0.7384834
##      PC17      PC18      PC19      PC20      PC21      PC22      PC23      PC24
## 0.7678248 0.7961186 0.8237159 0.8509056 0.8774432 0.9015574 0.9205578 0.9367791
##      PC25      PC26      PC27      PC28      PC29      PC30      PC31      PC32
## 0.9520928 0.9622597 0.9721925 0.9808987 0.9879080 0.9941606 0.9985536 1.0000000
```

```
matlambdas <- rbind(eigen_emp,propvar,cumvar_emp)
rownames(matlambdas) <- c("Eigenvalues","Prop. variance","Cum. prop. variance")
round(matlambdas,3)
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6      PC7      PC8      PC9      PC10
## Eigenvalues      4.735 1.910 1.812 1.732 1.597 1.302 1.193 1.144 1.126 1.074
## Prop. variance    0.148 0.060 0.057 0.054 0.050 0.041 0.037 0.036 0.035 0.034
## Cum. prop. variance 0.148 0.208 0.264 0.318 0.368 0.409 0.446 0.482 0.517 0.551
```



```
##          PC11  PC12  PC13  PC14  PC15  PC16  PC17  PC18  PC19  PC20
## Eigenvalues  1.054  1.033  1.006  1.001  0.965  0.948  0.939  0.905  0.883  0.870
## Prop. variance 0.033  0.032  0.031  0.031  0.030  0.030  0.029  0.028  0.028  0.027
## Cum. prop. variance 0.584  0.616  0.647  0.679  0.709  0.738  0.768  0.796  0.824  0.851
##          PC21  PC22  PC23  PC24  PC25  PC26  PC27  PC28  PC29  PC30
## Eigenvalues  0.849  0.772  0.608  0.519  0.490  0.325  0.318  0.279  0.224  0.200
## Prop. variance 0.027  0.024  0.019  0.016  0.015  0.010  0.010  0.009  0.007  0.006
## Cum. prop. variance 0.877  0.902  0.921  0.937  0.952  0.962  0.972  0.981  0.988  0.994
##          PC31  PC32
## Eigenvalues  0.141  0.046
## Prop. variance 0.004  0.001
## Cum. prop. variance 0.999  1.000
```

```
summary(emp_pca)
```

```
## Importance of components:
##          PC1      PC2      PC3      PC4      PC5      PC6      PC7
## Standard deviation  2.176  1.38189  1.34613  1.31589  1.2636  1.1412  1.09204
## Proportion of Variance 0.148  0.05968  0.05663  0.05411  0.0499  0.0407  0.03727
## Cumulative Proportion 0.148  0.20764  0.26426  0.31837  0.3683  0.4090  0.44624
##          PC8      PC9      PC10     PC11     PC12     PC13     PC14
## Standard deviation  1.06975  1.06120  1.03623  1.02673  1.01632  1.00296  1.00050
## Proportion of Variance 0.03576  0.03519  0.03356  0.03294  0.03228  0.03144  0.03128
## Cumulative Proportion 0.48200  0.51719  0.55075  0.58369  0.61597  0.64740  0.67869
##          PC15     PC16     PC17     PC18     PC19     PC20     PC21
## Standard deviation  0.98242  0.97384  0.96898  0.95153  0.9397  0.93278  0.92152
## Proportion of Variance 0.03016  0.02964  0.02934  0.02829  0.0276  0.02719  0.02654
## Cumulative Proportion 0.70885  0.73848  0.76782  0.79612  0.8237  0.85091  0.87744
##          PC22     PC23     PC24     PC25     PC26     PC27     PC28
## Standard deviation  0.87844  0.7798  0.72047  0.70003  0.57039  0.56378  0.52782
## Proportion of Variance 0.02411  0.0190  0.01622  0.01531  0.01017  0.00993  0.00871
## Cumulative Proportion 0.90156  0.9206  0.93678  0.95209  0.96226  0.97219  0.98090
##          PC29     PC30     PC31     PC32
## Standard deviation  0.47360  0.44731  0.37493  0.21514
## Proportion of Variance 0.00701  0.00625  0.00439  0.00145
## Cumulative Proportion 0.98791  0.99416  0.99855  1.00000
```

```
emp_pca$rotation
```

```
##          PC1      PC2      PC3      PC4
## i..Age      -0.2770835197  0.28772859 -0.066409841  0.207061847
## Attrition    0.1136550999 -0.14403631 -0.118905631  0.212008954
## BusinessTravel -0.0035052736  0.04655590 -0.073709829  0.044213515
## DailyRate     0.0009288049  0.08793151  0.043851312 -0.041835991
## Department   -0.0107687126 -0.34525178 -0.196335630  0.061287585
## DistanceFromHome -0.0019088131 -0.02583387  0.058454831  0.004900222
## Education    -0.0768008863  0.11338338 -0.062455898  0.088757850
## EducationField  0.0198131006 -0.05361893 -0.015323844 -0.029654125
## EmployeeNumber  0.0073996296  0.03236600  0.008820132 -0.072348196
## EnvironmentSatisfaction -0.0055815999  0.02896701 -0.027925502 -0.053261509
## Gender        0.0265875658  0.03833218  0.040903781 -0.074988585
## HourlyRate     0.0087825077  0.07823356  0.010843543 -0.027918669
## JobInvolvement -0.0034493545  0.08164235  0.002271699 -0.086314491
```

## JobLevel	-0.3793882155	0.11811398	-0.104013181	0.161859039
## JobRole	0.0629459820	-0.35455723	-0.181978649	0.036564769
## JobSatisfaction	0.0063335636	-0.02578727	0.031124601	-0.019235575
## MaritalStatus	0.0597723550	-0.30720135	-0.219653232	0.426864671
## MonthlyIncome	-0.3712110884	0.13779508	-0.100270795	0.172974561
## MonthlyRate	-0.0047312655	0.01027027	-0.061421088	0.091327652
## NumCompaniesWorked	-0.0480513180	0.35650130	-0.117228321	0.262473227
## OverTime	0.0120943643	-0.01654755	-0.061509397	0.104286626
## PercentSalaryHike	0.0150336175	-0.07716826	0.594989308	0.339297006
## PerformanceRating	-0.0002238331	-0.09023957	0.601252308	0.332127572
## RelationshipSatisfaction	-0.0160215694	0.04745802	-0.072798540	0.039892019
## StockOptionLevel	-0.0304765158	0.26576622	0.229954227	-0.439641835
## TotalWorkingYears	-0.3999927618	0.15020663	-0.058671662	0.158759709
## TrainingTimesLastYear	0.0091535670	-0.05150389	0.003082895	-0.079229528
## WorkLifeBalance	-0.0134308045	-0.03988636	-0.010969978	-0.023318338
## YearsAtCompany	-0.3856623757	-0.22155889	0.053420664	-0.130771605
## YearsInCurrentRole	-0.3318982990	-0.26386848	0.101139681	-0.182806894
## YearsSinceLastPromotion	-0.2905036466	-0.22046259	0.044515900	-0.101603691
## YearsWithCurrManager	-0.3259780930	-0.26937290	0.092224859	-0.180796337
##	PC5	PC6	PC7	PC8
## i..Age	-0.0949872076	0.019460202	-0.021170816	-0.029395233
## Attrition	0.0398252327	-0.562644140	-0.056986335	0.041906049
## BusinessTravel	-0.0008369589	0.048109040	-0.107046510	-0.049439133
## DailyRate	-0.0926389243	0.093919786	0.234345939	-0.331681437
## Department	-0.5702997579	0.066545839	-0.009562634	-0.021237433
## DistanceFromHome	-0.0473072483	-0.295157581	-0.126756879	-0.061546135
## Education	-0.0832699425	0.010154387	-0.338411482	-0.158517819
## EducationField	0.0174605940	0.048175780	0.068076843	0.117244693
## EmployeeNumber	-0.0166440153	-0.051357696	-0.399925510	0.333722017
## EnvironmentSatisfaction	0.0353437338	0.067564729	0.327433137	0.216826540
## Gender	0.0660038200	-0.030838305	0.028199945	-0.098532582
## HourlyRate	-0.0409587064	-0.070007154	-0.387438203	-0.231433720
## JobInvolvement	-0.0287700246	0.181012227	-0.108821681	-0.479926771
## JobLevel	-0.1139178351	0.041212181	0.074257668	0.100182859
## JobRole	-0.5523060979	0.061392430	-0.010787925	-0.068212811
## JobSatisfaction	-0.0305186113	0.173804009	0.393740217	-0.075911489
## MaritalStatus	0.3092362441	0.174419279	-0.086487867	-0.061673797
## MonthlyIncome	-0.0956631652	0.038643066	0.074249401	0.098984203
## MonthlyRate	-0.0249604492	-0.040654462	0.106264512	0.330874181
## NumCompaniesWorked	-0.1326809959	-0.032205012	-0.082597602	-0.030579702
## OverTime	-0.0490415572	-0.515701519	0.326797352	-0.048766671
## PercentSalaryHike	-0.1246460690	0.050321166	-0.001410505	-0.001058593
## PerformanceRating	-0.0966936243	0.022018769	-0.001705063	0.009164059
## RelationshipSatisfaction	0.0646155109	0.042008819	0.222845139	-0.288532746
## StockOptionLevel	-0.3476466680	-0.173717446	0.013509570	0.092705126
## TotalWorkingYears	-0.0337829316	-0.007033426	0.011671275	0.022878943
## TrainingTimesLastYear	-0.0040561137	0.305531990	-0.100172910	0.239698716
## WorkLifeBalance	-0.0312430115	0.214026237	-0.023171104	0.281934612
## YearsAtCompany	0.1133817685	-0.065715209	-0.012376206	-0.031511252
## YearsInCurrentRole	0.0761967400	-0.033222281	-0.028032331	-0.058667194
## YearsSinceLastPromotion	0.0968131493	-0.123125769	-0.016026205	-0.015874801
## YearsWithCurrManager	0.1151213032	-0.033914403	-0.066303968	-0.094327650
##	PC9	PC10	PC11	PC12
## i..Age	0.011386034	0.033244482	0.0023861825	0.0282189762

## Attrition	-0.058171560	-0.139132738	-0.1754665266	0.0311424677
## BusinessTravel	-0.379722242	-0.309928799	0.2888682871	0.1687621623
## DailyRate	-0.235791159	-0.148809808	0.0668352918	0.0424838968
## Department	0.023566211	0.011904492	-0.0353475590	-0.0007595333
## DistanceFromHome	0.084297097	0.210882314	0.1529079574	-0.2014371920
## Education	0.145937447	0.220334584	0.0383766952	0.2960086741
## EducationField	-0.511442816	0.018958785	-0.2722466931	0.2328414184
## EmployeeNumber	0.087360703	0.212689505	0.1530012761	0.2203063128
## EnvironmentSatisfaction	-0.247560137	0.456441647	0.2687161399	0.2932670942
## Gender	0.312027241	0.114236044	-0.3816451670	0.2858798931
## HourlyRate	-0.152186238	0.021352056	0.0454294911	-0.2895386903
## JobInvolvement	-0.140552067	0.271579693	0.2724818463	0.0079303370
## JobLevel	0.040204157	-0.084924045	-0.0296981366	-0.0421416919
## JobRole	0.011732615	0.060427936	-0.0089933597	0.0465244909
## JobSatisfaction	0.435501461	-0.132420669	0.1871971502	0.1370598427
## MaritalStatus	0.022110985	0.052422048	0.0759396696	0.0432182520
## MonthlyIncome	0.029954096	-0.101703791	-0.0372251116	-0.0386330030
## MonthlyRate	0.068183132	0.198349865	0.3963006909	-0.4367749546
## NumCompaniesWorked	-0.074364176	0.082092859	-0.1282737130	0.0827139681
## OverTime	-0.185324318	0.084956579	0.1081523750	0.0505483622
## PercentSalaryHike	-0.030383879	0.034672127	0.0026192936	0.0152712038
## PerformanceRating	-0.054812638	0.032796600	-0.0115493961	0.0035168769
## RelationshipSatisfaction	-0.055612111	0.372990474	-0.3497504063	-0.4123992900
## StockOptionLevel	-0.007520281	-0.034153010	-0.0421672899	-0.0307175421
## TotalWorkingYears	-0.007693625	-0.044644231	-0.0113338164	0.0099773121
## TrainingTimesLastYear	-0.175949444	-0.244139703	-0.1068493800	-0.2902774103
## WorkLifeBalance	-0.132214896	0.349199161	-0.3063154751	-0.0402246676
## YearsAtCompany	-0.008835292	-0.008263972	0.0008497405	0.0018549084
## YearsInCurrentRole	-0.045620424	0.048656714	0.0437367105	0.0307152128
## YearsSinceLastPromotion	-0.031961934	0.047847665	-0.0518801674	-0.0041542856
## YearsWithCurrManager	-0.029849743	0.036891422	0.0300814131	0.0301815490
##	PC13	PC14	PC15	PC16
## i..Age	0.046042528	0.050348387	-0.049688834	-0.0532602212
## Attrition	0.023932388	0.026043592	-0.015682372	-0.0292474689
## BusinessTravel	-0.389896766	-0.228210168	-0.355942727	-0.0434886132
## DailyRate	0.459687502	-0.042505161	0.334959667	0.2378903569
## Department	0.012626622	-0.060585561	0.054879501	-0.0572759890
## DistanceFromHome	0.472110409	-0.224591184	-0.426369384	0.1582871802
## Education	0.095129646	0.446530184	-0.227283994	0.0440416541
## EducationField	0.401029384	-0.123006372	-0.190040547	-0.0175774019
## EmployeeNumber	0.191748019	-0.172894283	0.053527296	-0.1271919499
## EnvironmentSatisfaction	0.001329338	-0.028177832	0.213613143	-0.0923547755
## Gender	-0.040327063	-0.602233696	0.026514457	-0.2294605813
## HourlyRate	-0.052318231	-0.285506972	0.268837770	0.3703085651
## JobInvolvement	-0.098335530	-0.153344777	-0.192316003	-0.2102168301
## JobLevel	-0.004906955	-0.186536564	-0.019012700	0.0304093001
## JobRole	-0.048231789	-0.005064548	0.037262302	-0.0643617405
## JobSatisfaction	0.138859429	-0.013367214	-0.330781739	0.2724372595
## MaritalStatus	0.082546528	-0.036574120	0.020359130	0.0622303920
## MonthlyIncome	-0.019485362	-0.198209607	-0.010759238	0.0290013680
## MonthlyRate	0.040089762	-0.103927718	0.099750989	-0.1235679599
## NumCompaniesWorked	0.062400317	0.212716009	0.141047871	-0.0650108641
## OverTime	-0.148945656	0.028121772	-0.189661820	0.0557740678
## PercentSalaryHike	-0.021382642	-0.022254354	-0.008805833	-0.0449000831

## PerformanceRating	-0.052677407	-0.005596156	0.002921961	-0.0418947061
## RelationshipSatisfaction	-0.067566641	0.067048963	-0.145951501	-0.2518170448
## StockOptionLevel	-0.058114543	0.075081663	-0.060976600	-0.0141079547
## TotalWorkingYears	0.027388010	-0.056992171	-0.004494832	-0.0004876817
## TrainingTimesLastYear	0.235591614	0.083137173	-0.282034260	-0.2993324075
## WorkLifeBalance	-0.256613262	-0.018935573	-0.201157207	0.6157086648
## YearsAtCompany	-0.012365447	0.020368542	0.008021149	-0.0062796972
## YearsInCurrentRole	-0.004901715	0.076741425	0.037336388	0.0347626124
## YearsSinceLastPromotion	0.015198321	0.099757561	0.047840343	-0.0626768022
## YearsWithCurrManager	-0.007261608	0.077262782	0.031046529	-0.0264053087
##	PC17	PC18	PC19	PC20
## i..Age	-0.061520458	-0.0012482070	-0.07707899	0.050299317
## Attrition	0.014118431	0.1612279880	-0.04274683	-0.128057129
## BusinessTravel	0.063597666	-0.2414656821	-0.20488229	-0.237817641
## DailyRate	-0.062074497	0.1770607441	0.04530541	-0.487345296
## Department	-0.007396933	-0.0538256233	-0.01269543	0.003207010
## DistanceFromHome	0.212550788	-0.4037222068	0.13980002	-0.157956284
## Education	-0.034521472	0.0988650668	-0.37423925	-0.199585926
## EducationField	0.211645964	0.1411067996	-0.18560067	0.489591978
## EmployeeNumber	-0.413040066	0.1256979308	0.29306030	0.043315824
## EnvironmentSatisfaction	-0.170896553	-0.3692161078	-0.13508967	-0.088963136
## Gender	0.023270017	0.1166135747	-0.31487669	-0.262575468
## HourlyRate	-0.351558857	-0.0796312138	-0.37763415	0.280627057
## JobInvolvement	0.117895187	0.4340104459	0.28360233	0.104382137
## JobLevel	-0.014940230	0.0001213582	0.15224527	0.008285653
## JobRole	0.004997254	-0.0380169872	-0.00880268	0.024079354
## JobSatisfaction	-0.232218821	0.0621010126	-0.23353056	0.270677162
## MaritalStatus	-0.066259478	-0.0229097159	0.01719825	0.001662669
## MonthlyIncome	-0.026262690	0.0093343022	0.15101765	0.012681653
## MonthlyRate	0.310794699	0.3628567046	-0.40541012	-0.063367547
## NumCompaniesWorked	0.137970955	-0.0473091191	-0.09045145	0.028066989
## OverTime	-0.403540587	0.2891388668	0.04972583	0.001730961
## PercentSalaryHike	-0.027651889	0.0071484694	-0.01252173	-0.010509643
## PerformanceRating	-0.024294533	0.0018958798	-0.01374997	0.011622309
## RelationshipSatisfaction	-0.218355762	-0.2148010428	-0.02715567	0.007985655
## StockOptionLevel	0.015981326	-0.0139232629	-0.04713257	0.022131471
## TotalWorkingYears	-0.010516775	0.0022359306	0.02727865	0.027610436
## TrainingTimesLastYear	-0.405888548	0.1163806168	-0.13031494	-0.263666506
## WorkLifeBalance	0.062985220	0.2098812174	0.09337942	-0.247947572
## YearsAtCompany	-0.022108465	0.0077801529	-0.03889449	-0.006450595
## YearsInCurrentRole	0.035052168	0.0229192743	-0.06838993	-0.049428225
## YearsSinceLastPromotion	0.017715733	0.0154796871	-0.11619346	-0.014084205
## YearsWithCurrManager	0.034429536	0.0108079009	-0.04824859	-0.001625552
##	PC21	PC22	PC23	PC24
## i..Age	0.0537969186	0.0437720623	-0.340459637	0.602941808
## Attrition	0.0319656905	0.2099574728	0.480551613	0.035754519
## BusinessTravel	-0.3544885453	0.0315789283	0.019887629	0.017306882
## DailyRate	-0.2337813082	-0.0651573879	0.029020180	0.047518192
## Department	0.0050356887	0.0141581881	0.024430430	0.015001097
## DistanceFromHome	0.1223545889	0.0805698235	-0.099337169	-0.008331012
## Education	0.0670657290	-0.4011323997	0.161363024	-0.112126555
## EducationField	-0.0815867376	-0.1599147397	-0.006988212	-0.018615276
## EmployeeNumber	-0.4799057702	0.0267238673	0.016759602	0.013326337
## EnvironmentSatisfaction	0.2951042053	0.0866218017	0.220723088	-0.008915086

## Gender	0.0893876692	0.0385149396	-0.144347568	-0.027451380
## HourlyRate	0.1406894468	0.0284640844	0.065886519	-0.031722561
## JobInvolvement	0.2082190801	0.2024249450	0.211043672	0.021145463
## JobLevel	0.0800586564	-0.1614387797	0.236649545	-0.188241526
## JobRole	-0.0239084676	0.0119205179	-0.118045593	0.046037044
## JobSatisfaction	-0.1725261289	0.2869827680	0.178068723	-0.024898742
## MaritalStatus	-0.0008727769	0.0382139762	-0.054566119	-0.025835452
## MonthlyIncome	0.0680425501	-0.1713585454	0.257554534	-0.190044068
## MonthlyRate	-0.1760024946	-0.0705750683	-0.024181296	-0.032648348
## NumCompaniesWorked	-0.1318238858	0.6347703038	-0.136128194	-0.349406352
## OverTime	0.1059946720	-0.0927927555	-0.366673534	-0.101733396
## PercentSalaryHike	-0.0094861301	-0.0154268223	0.020974620	-0.010175635
## PerformanceRating	-0.0164106483	-0.0027439750	0.040517511	-0.010375051
## RelationshipSatisfaction	-0.4279018761	-0.1270242354	0.130346338	-0.043542326
## StockOptionLevel	-0.0359274214	0.0321140583	0.113437513	-0.024407202
## TotalWorkingYears	0.0263654998	-0.0009871573	-0.075014140	0.064408156
## TrainingTimesLastYear	0.3175583569	0.1999239815	-0.018462638	-0.061633811
## WorkLifeBalance	-0.0228625921	0.1416348661	-0.001194357	0.070184242
## YearsAtCompany	-0.0249066413	0.0233495047	-0.030967188	-0.063599848
## YearsInCurrentRole	-0.0713322516	0.1282931818	-0.139258071	-0.190763910
## YearsSinceLastPromotion	-0.0770110699	0.2207959131	0.281670824	0.527986618
## YearsWithCurrManager	-0.0408223662	0.0706379597	-0.185820442	-0.271491314
##	PC25	PC26	PC27	PC28
## i..Age	-0.3771954985	-0.060460030	0.0419731776	0.039326263
## Attrition	-0.4459008967	0.037359620	-0.0421282163	0.019603495
## BusinessTravel	0.0120808398	0.007614621	0.0185421073	-0.017602703
## DailyRate	-0.0161919075	-0.016870941	-0.0289247015	-0.036585944
## Department	-0.0135919675	-0.183840648	0.6636483039	-0.071879653
## DistanceFromHome	0.0724395113	0.031481256	-0.0082064852	-0.006893946
## Education	0.0725511525	0.029715486	0.0170369635	0.005302011
## EducationField	0.0070047292	-0.004651991	-0.0009736878	0.012833791
## EmployeeNumber	-0.0233256264	0.048377727	0.0154581965	-0.003344161
## EnvironmentSatisfaction	-0.1296927799	0.016811318	-0.0128751364	-0.014918510
## Gender	0.0632131129	-0.037768449	-0.0116741462	0.007928205
## HourlyRate	0.0093298834	0.040903028	-0.0109444516	0.002792229
## JobInvolvement	-0.0603760213	-0.012866643	0.0110614873	0.009413617
## JobLevel	0.0985817428	-0.027258352	-0.0051875850	0.015520703
## JobRole	-0.0032136187	0.225962367	-0.6582684572	0.046230026
## JobSatisfaction	-0.0882657004	0.055425577	-0.0009585135	-0.023317674
## MaritalStatus	0.0427369788	-0.673383104	-0.2026682158	0.035561455
## MonthlyIncome	0.1279291118	0.014157813	-0.0997889437	0.039878139
## MonthlyRate	-0.0124976367	-0.006654447	-0.0161238550	-0.019587224
## NumCompaniesWorked	0.2144637151	0.030063362	0.0162062207	-0.026619977
## OverTime	0.2686228392	-0.040639952	0.0433513016	-0.014740090
## PercentSalaryHike	-0.0002103328	-0.021855178	-0.0194528188	-0.008652317
## PerformanceRating	0.0000410718	0.037400959	0.0213004223	-0.004746915
## RelationshipSatisfaction	-0.0975015934	-0.007518596	-0.0020744265	0.019597567
## StockOptionLevel	-0.0527966393	-0.658894504	-0.2159350458	0.009485927
## TotalWorkingYears	-0.1282030050	0.016373350	-0.0925595392	-0.053574139
## TrainingTimesLastYear	0.0141578796	0.031428985	-0.0325388641	0.004569058
## WorkLifeBalance	-0.0570100099	0.016223815	0.0054898183	-0.051860227
## YearsAtCompany	-0.1184022773	0.058791102	-0.0322642083	-0.068691201
## YearsInCurrentRole	-0.1154082056	-0.003584704	0.0881614608	0.760387060
## YearsSinceLastPromotion	0.5983059702	-0.003565705	-0.0207086904	-0.081969984

## YearsWithCurrManager	-0.2261427444	-0.028811102	-0.0238754237	-0.622700915
##	PC29	PC30	PC31	PC32
## i..Age	0.052217885	-0.2615582304	0.2310758920	-0.0120977830
## Attrition	0.025747284	-0.0421965911	-0.0256497756	0.0048347288
## BusinessTravel	0.005791215	-0.0070978465	0.0093264776	0.0095107389
## DailyRate	-0.018796127	-0.0008178897	0.0220086073	0.0040412746
## Department	-0.016091406	0.0851678195	-0.0272120112	-0.0640107694
## DistanceFromHome	-0.012562471	-0.0021741659	0.0122194407	-0.0154314006
## Education	-0.014608356	0.0153241082	-0.0040241375	-0.0019836227
## EducationField	0.006579047	-0.0052743899	0.0129279175	0.0036727642
## EmployeeNumber	-0.002796943	-0.0063853921	-0.0009168551	0.0039490321
## EnvironmentSatisfaction	0.002003020	0.0025894535	-0.0082471156	-0.0055094819
## Gender	-0.017810710	-0.0018923829	-0.0018760241	0.0039033078
## HourlyRate	0.011438791	-0.0100413489	-0.0048715500	0.0101050482
## JobInvolvement	-0.011761366	0.0286160736	0.0053266741	-0.0025145793
## JobLevel	0.033192297	-0.1983608870	0.1070590309	0.7192062823
## JobRole	-0.014544997	-0.0328899317	0.0148910142	0.0379668074
## JobSatisfaction	-0.006782743	-0.0141370072	-0.0142456796	-0.0022431852
## MaritalStatus	-0.040003802	0.0240291729	0.0287060247	-0.0043116247
## MonthlyIncome	0.048838427	-0.1985779361	0.1306049382	-0.6894657821
## MonthlyRate	-0.004042623	0.0061714160	0.0110695305	-0.0026288647
## NumCompaniesWorked	0.007073183	0.0249510530	0.1140737575	0.0033791410
## OverTime	0.003554601	-0.0007879052	0.0055559710	0.0017713734
## PercentSalaryHike	0.692213074	0.1332898805	-0.0358850913	0.0101309667
## PerformanceRating	-0.692404142	-0.1198771769	0.0519513129	-0.0038017679
## RelationshipSatisfaction	0.007294064	-0.0021780096	-0.0245477790	0.0028701930
## StockOptionLevel	-0.037110124	0.0375955590	0.0119643564	-0.0076816916
## TotalWorkingYears	-0.138742785	0.5093506210	-0.6794315422	-0.0098628810
## TrainingTimesLastYear	-0.008949345	-0.0062798627	-0.0137765538	-0.0003836094
## WorkLifeBalance	0.003633652	0.0108601541	-0.0007265140	-0.0053738876
## YearsAtCompany	-0.056230088	0.5896424085	0.6170111109	0.0053180444
## YearsInCurrentRole	0.041361626	-0.1999692542	-0.1495894024	-0.0061315187
## YearsSinceLastPromotion	0.028094913	-0.0853934665	-0.0830551251	0.0092241429
## YearsWithCurrManager	0.067160160	-0.3896860742	-0.1572100596	-0.0251400627

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##		PC1	PC2	PC3	PC4	PC5
##	[1,]	0.68265206	-0.5675131892	-2.4216126832	2.1197121218	-0.995514375
##	[2,]	-0.62933035	-0.9935130164	2.9704488581	1.0646612630	-0.046812358
##	[3,]	2.72139775	0.7103771767	-0.9571217534	1.6362372253	1.312917422
##	[4,]	0.80984219	-0.5245919101	-1.0470091525	-0.4635443879	0.364971547
##	[5,]	1.77337894	1.2891174351	-0.5977551757	-0.3529640641	1.021034065
##	[6,]	0.56134967	-1.0400064602	-0.0860592754	-0.7755799326	2.366847556
##	[7,]	1.11223345	2.8778108453	2.7045559561	0.9180993811	-1.320280597
##	[8,]	2.71587323	0.8373633597	3.6508287665	0.0159893635	-0.185753509
##	[9,]	-1.06292043	-1.6620676270	2.4233364753	1.7999011613	1.033656946
##	[10,]	-1.33932642	1.3320032924	0.5167025649	-1.3677262467	0.797927750
##	[11,]	1.39759948	0.3969996049	0.1342861571	-1.4005748523	0.983609869
##	[12,]	0.18028064	-1.3374153663	-0.8523949831	0.0226752332	2.279836786
##	[13,]	1.45422357	-0.2457986124	0.9172113241	-1.2013751774	-0.061892045
##	[14,]	1.92132547	1.0439235860	0.2738484494	-2.0921760297	0.523233445
##	[15,]	2.21621200	-0.5600104892	-0.9213550672	1.3504669581	1.766415358
##	[16,]	-2.12418342	-0.1349850280	-0.0461802424	-1.9792316873	0.167818809

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## [17,] 1.36356869 0.4314335659 0.0220692786 -2.2836374794 -0.424827020
## [18,] 2.89738124 1.4233665974 0.8765050354 -2.4910466292 -0.063288722
## [19,] -4.88731810 -0.2264848857 -0.8183666545 1.2852088521 -0.547286570
## [20,] 1.59029424 0.0317490855 -1.6371519967 0.6581622357 0.833521066
## [21,] 1.52852172 0.0540930466 1.2000464282 -1.6155385132 -0.002461950
## [22,] 1.54620339 -1.3722094971 1.3183803316 3.4065290449 -1.559336762
## [23,] -1.89716484 -1.3977158687 -1.3614474932 0.2092231901 1.268391461
## [24,] 3.43126545 -0.8547599008 -0.7257885572 -0.0832535291 0.981821228
## [25,] 2.04534309 -1.0001156992 -1.5761534646 0.6027334428 1.303696753
## [26,] -5.26404384 1.5297699220 -0.8195348741 -0.5136966679 -0.101864608
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## [1435,] -0.13278591 0.2398353869 0.3299305097 -1.3106484783 -2.761182283
## [1436,] 1.40935088 0.3528629611 -1.4565478767 0.7906506800 0.490676310
## [1437,] 2.79527516 -2.2311173760 -1.9220237577 -0.3814830841 -0.189009204
## [1438,] -1.87515223 1.3142365654 -1.4274570255 1.4964225318 0.839033784
## [1439,] 3.32384911 -1.4767429250 -0.1453740190 0.0596526978 -1.482888796
## [1440,] -0.74771560 -1.0679115794 0.3931238991 -0.7039562206 -1.939574146
## [1441,] 0.31907170 2.8407871537 0.2524280143 -1.8080279783 -1.342454821
## [1442,] -2.29931073 0.5431687011 3.6906575810 -0.1756568584 0.515878339
## [1443,] 1.90161386 1.2897626885 -0.5304184378 -0.3290331543 -1.453227823
## [1444,] -5.04787092 0.2751569439 -1.0963405398 0.1813302707 1.021577527
## [1445,] -1.39257631 0.3751233908 -0.7016182807 -0.7824826388 1.662195916
## [1446,] -3.37455406 -0.6402073253 3.0375464944 1.2722517513 -0.312244215
## [1447,] -0.26375284 -1.3680374190 2.5906143412 0.0527063588 -2.156853485
## [1448,] -2.70447342 -3.0813643303 3.8494380211 -0.7511932198 -1.530382998
## [1449,] -0.17522402 0.3069072291 -1.0993307159 -1.2273616943 -1.799654272
## [1450,] 2.06255028 -0.6806636638 -0.9173727002 -0.2443660013 1.181968732
## [1451,] -0.33001859 0.8116226912 -0.0106314385 0.9151885189 2.387249950
## [1452,] -0.60157648 -1.3859502793 -0.8118522215 -1.3937999644 -1.027028901
## [1453,] 0.23505463 1.7331893909 -1.3078772370 -0.2172679177 -2.711001556
## [1454,] 0.85620494 0.3202102624 -1.0092499836 -0.0076791496 -2.098632461
## [1455,] 0.71218132 0.0490256535 -1.7240822598 1.7870764031 -1.210592770
## [1456,] 1.47074399 0.0306115536 -0.8587015417 0.4246285702 0.739173585
## [1457,] 0.34066179 1.7294036934 0.2706008460 -1.0391913490 0.478187416
## [1458,] 0.64162160 1.5822453478 0.1621994843 -1.5550190021 -1.293822298
## [1459,] 1.64789385 -0.0791621529 -0.7168580427 -0.9212807306 0.160537656
## [1460,] 1.10805113 0.9203042535 -0.2595216866 -0.5896720313 0.576408677
## [1461,] 1.55731593 -1.0360350772 -0.5880734752 0.0157043977 0.928534088
## [1462,] -0.46355578 0.8577180441 -1.6481882481 0.9821768910 -2.370458615
## [1463,] -3.52685551 -2.1257676279 -0.7399545484 -1.2077657471 -1.012423212
## [1464,] -0.10679847 -1.1337169918 0.5151486703 0.1329867009 1.400060711
## [1465,] 2.39743033 -1.9438043887 -0.8255320584 0.7168711191 -0.737297718
## [1466,] 0.64553418 1.2220013624 0.6278869308 -0.5166622824 0.513687771
## [1467,] -0.96219517 0.6802687558 0.2538008491 -0.7741163776 1.359300089
## [1468,] 1.19142545 0.1543121503 2.4696960034 0.6472515377 -0.093037893
## [1469,] -0.94019919 -0.7695012784 -0.9901100966 -0.1011380924 -0.711097396
## [1470,] 1.10525095 0.6593103218 -0.4468654849 -0.8404276186 1.049579915
##
##          PC6          PC7          PC8          PC9          PC10
## [1,] -2.3098364458 8.271827e-01 -2.2429958292 0.1590878527 -2.192148e+00
## [2,] 0.3837376377 1.261965e+00 0.8009257307 0.6901131331 7.375005e-01
## [3,] -1.1643176010 1.383122e+00 -0.6835527364 -2.1447626021 -1.246560e+00

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## [4,] 0.1366298174 2.077320e+00 -0.7850778266 -0.3557756787 9.525830e-01
## [5,] 0.7010901723 8.561470e-01 -0.3485476172 -0.5373604668 -7.433329e-01
## [6,] 0.8797883075 1.546636e+00 -1.7905920028 1.0369331883 -1.493696e-02
## [7,] -0.5204533266 6.984807e-02 -1.4577937581 -2.7876349348 -9.903756e-01
## [8,] 0.1519196698 1.622386e+00 -0.6420093802 -0.2269419575 -8.105346e-02
## [9,] 0.3266457789 7.823535e-01 0.4283390283 1.6695434802 7.255288e-01
## [10,] -0.7884825763 -1.941559e-01 -1.5130600355 -0.6291139319 -4.729487e-01
## [11,] 0.9548592441 -1.024861e+00 -1.4856543385 -0.7381289303 -5.581076e-01
## [12,] -0.4192084230 1.910568e+00 0.3884408594 -0.2062254723 3.228798e-01
## [13,] -0.8879361035 1.422816e+00 -1.5811885384 1.4993113995 -5.801226e-01
## [14,] 0.1430850438 8.365969e-01 -1.9230924274 -0.1162481946 -8.342398e-01
## [15,] -2.2106779451 3.610055e-01 0.6438441151 0.6001297137 -4.007578e-01
## [16,] -0.5484109954 -3.028785e-01 -2.4097824275 -0.7547384577 2.597345e-01
## [17,] -0.5930265893 2.295272e-01 -1.7360530463 -0.2113216092 -9.811178e-01
## [18,] -1.1794111477 2.063355e+00 -1.9554023641 0.2521552756 5.447162e-01
## [19,] 1.0818325889 4.441686e-01 -0.6056811910 0.7286445367 -1.888358e+00
## [20,] 0.6015466749 1.772256e+00 -0.9382609127 0.4527094371 3.461908e-01
## [21,] 0.8464096071 9.256982e-02 -1.7750120020 -0.3811173054 -7.541442e-01
## [22,] -0.2031345806 -1.350058e+00 -0.9191465388 -0.9510576484 -6.649219e-01
## [23,] 1.1676648011 -7.539009e-01 -0.3131615887 0.3577974752 -8.881476e-01
## [24,] 1.8412569657 2.892873e-01 -0.4452562021 0.4909652874 -2.461155e-02
## [25,] -0.8381263045 -2.717667e-01 -0.7372445605 -1.1873409986 -6.202443e-01
## [26,] 0.6076948821 1.618036e+00 -1.1204597621 -1.5412325020 -1.286875e+00
## [27,] -2.1237492497 3.706583e-01 0.4558647859 -1.3441724751 -1.927633e+00
## [28,] 0.5790688352 6.379625e-01 -0.7529019437 0.2736484706 9.862187e-01
## [29,] 0.6532723926 2.478728e-01 -0.6447351770 0.1100271189 -1.705151e+00
## [30,] 0.9449520629 -3.196659e-01 -0.7839340404 -0.4577723175 -6.384388e-01
## [31,] 1.7732548142 8.681803e-01 -1.6352287499 -0.2382296300 -1.545274e-01
## [32,] 1.1509638982 2.726728e+00 -0.1484651063 -1.3862834355 8.694515e-01
## [33,] 1.1114669302 -6.748428e-02 1.4226097084 -0.3432413229 -9.108864e-01
## [34,] 1.2636097149 1.141091e+00 0.2872240223 -1.6740297290 -6.065259e-01
## [35,] -1.8759450431 1.040722e+00 -1.3578656244 0.0221713703 -2.243921e+00
## [36,] 0.8486985624 1.728286e+00 -1.4748561513 -1.6991532970 1.666088e-02
## [37,] -1.7108696962 6.188445e-01 -1.5453134616 -0.0645798374 -1.708064e+00
## [38,] 1.6463140873 1.931498e-01 -0.7670498584 -0.5855417322 -7.718990e-01
## [39,] -0.3854781925 -2.682405e-01 -0.4693237368 -1.4000376165 5.100115e-01
## [40,] 1.2562928641 3.242832e-05 -0.9506220177 -0.6636538378 -5.650028e-01
## [41,] 0.9508543504 1.193468e+00 -0.2287501630 -0.3295708439 -5.915278e-01
## [42,] 1.6114755267 9.606514e-01 0.3932825207 -1.4919830460 -4.706730e-02
## [43,] -1.8133196231 4.681296e-01 -0.9671184198 1.5315391096 -2.247302e+00
## [44,] 0.9812645290 1.865740e+00 -1.9768046053 1.2434662839 1.312395e+00
## [45,] 1.4901162565 1.681839e+00 -0.9521871366 -0.3276649763 3.541186e-01
## [46,] -1.5935462362 1.487700e+00 -1.3188484169 -1.5085909414 -4.834196e-01
## [47,] 0.4211230041 -1.034677e-01 -2.1148031134 1.4742122177 1.402884e+00
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## [55,] -0.9046225661 2.393206e+00 -0.7063642695 -0.1363426818 -4.061865e-01
## [56,] -0.6829266657 7.890600e-01 -1.7130209166 0.7187193658 -4.373989e-01
## [57,] 0.1335913156 -9.912798e-01 -2.1776755318 0.7356558282 7.413539e-01

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## [58,] -0.8856864364 8.804967e-01 -0.4252834703 -1.8100620711 6.668158e-01
## [59,] 0.6865404446 1.336677e+00 -1.3169449483 0.7168184968 2.090855e-01
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## [64,] -0.2451665070 -1.795643e+00 -3.7771449159 -1.1693735896 -7.339054e-01
## [65,] -0.4239474921 9.694462e-01 -0.4367763473 -2.0295528844 -9.983430e-01
## [66,] -0.6459522076 2.899950e+00 0.9105095547 -0.9943699298 -6.598217e-02
## [67,] 0.6145837388 -1.245776e-01 -0.5994200035 0.8202018128 -1.066815e-01
## [68,] 0.4758389926 4.956561e-01 -0.7426062709 -0.0778267896 -5.616554e-01
## [69,] 0.1995117645 -3.803248e-01 -1.9590692572 -0.2449286896 9.160438e-02
## [70,] -3.0528628731 1.146827e+00 0.4602742433 0.1670900204 -3.851271e-01
## [71,] 0.8678558990 1.514016e+00 -0.8400405558 0.8985377700 -1.229914e+00
## [72,] 1.3119289805 4.076007e-01 -2.0394777240 -0.7214394825 9.519649e-05
## [73,] 1.7794439880 -5.167112e-01 -0.6555634437 -0.9130171473 -1.979552e-01
## [74,] 0.6553140650 -5.081826e-01 -0.7477659660 0.3239173353 -1.063712e+00
## [75,] 1.3449548653 1.073316e-01 -0.2135739470 0.8699864486 -4.201824e-01
## [76,] 1.3335598506 7.213862e-01 -1.1851659597 0.3314130131 7.746943e-01
## [77,] 0.7461140394 1.597705e-01 0.3276631203 0.0725621901 1.182630e-01
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## [81,] -1.2515668049 3.376544e+00 -0.1146161333 0.5675589284 -8.664139e-01
## [82,] 1.4581342373 1.064874e+00 0.7161085375 0.2996708530 -1.336287e+00
## [83,] 1.6107189992 6.012477e-01 -0.1722095814 1.5171844998 -1.123086e+00
## [84,] -1.6083565697 1.677080e+00 0.5061683035 0.4689722377 5.346920e-02
## [85,] 0.8560824610 -5.977831e-02 -1.4041111936 -0.6441654880 -1.011101e+00
## [86,] 0.8561313899 1.834383e+00 0.8902174928 1.2353457266 -1.930818e+00
## [87,] 0.8927515723 6.948206e-01 0.1152014199 -2.0217065214 -3.606566e-01
## [88,] 0.9796780682 -3.037999e-01 -0.1313438989 0.4697495833 4.334983e-01
## [89,] -0.3082092236 -2.952974e-01 0.6059778016 0.8973122602 -1.131908e+00
## [90,] -0.1851995119 1.313145e+00 -0.2184025213 0.1136333404 -6.096441e-01
## [91,] -0.1454241030 2.102768e-01 -0.4101277119 0.8545675739 -1.003158e-01
## [92,] -0.5719217620 1.085765e+00 -2.8182033026 0.7564656100 3.021797e-01
## [93,] -1.0900598819 1.733447e+00 0.3798695267 -1.9092494516 -1.844819e+00
## [94,] -0.7689613918 1.216737e+00 0.2823391510 -0.8041416862 -1.058651e+00
## [95,] 0.4713139367 -4.893851e-01 -1.4378747663 0.3081016877 2.698891e-02
## [96,] 1.1166093408 -2.161190e-01 -0.2546843669 -1.1211655947 -3.052627e+00
## [97,] 1.1233678131 1.214158e+00 -0.4280295053 -0.7268546798 -2.516481e+00
## [98,] 1.5145383240 4.034305e-01 0.4159437818 1.4973500557 6.567981e-01
## [99,] 0.5332668143 1.346531e+00 -0.7026128566 0.6199413407 5.586817e-01
## [100,] 0.1059774257 -9.198101e-02 0.5312606731 0.8961145955 1.848413e+00
## [101,] -2.1594527414 4.155873e-01 -0.6061108807 -0.6819657050 8.857057e-01
## [102,] 1.1965002104 9.787740e-01 -0.7309312700 -0.7236503279 6.528945e-01
## [103,] -0.8915215676 1.717646e+00 1.1409759543 0.0241068781 -7.148176e-01
## [104,] 1.2295564564 -2.413577e-01 -1.0913865059 -0.6164953012 -7.333258e-01
## [105,] 0.6128315374 1.684538e+00 0.0153526169 1.4730140361 7.447148e-01
## [106,] 1.2984830714 2.542468e+00 0.6184644599 1.7181906379 1.678414e-01
## [107,] -0.6197943125 5.346176e-01 -1.3096650487 0.3890274285 -2.056613e+00
## [108,] -1.8781875200 1.844320e+00 0.4438071182 0.6675415255 5.981376e-01
## [109,] 0.4863152904 2.692171e+00 0.6444444525 -0.1909728551 -2.291981e-01
## [110,] 1.7027493133 3.975050e-01 0.3806943671 -0.1207285150 -6.393122e-01
## [111,] -0.1625736535 4.715075e-01 -0.6148637058 -0.3849840951 -5.269454e-01

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## [112,] -1.9923244629 1.052826e+00 0.3505427121 1.2032271130 -5.942993e-01
## [113,] -0.2750365749 2.137378e+00 -0.0438986805 1.9064927923 1.747394e+00
## [114,] 0.1810754140 1.253858e+00 -1.0119472349 0.5917712689 -7.394773e-01
## [115,] 0.6088791098 5.684561e-01 0.3222778877 -0.2678886184 -5.263195e-01
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## [117,] 1.6735935048 4.840928e-01 -0.0282139363 -2.3012669232 -1.236177e+00
## [118,] 1.8294339901 9.900828e-01 -0.2207538703 -1.4332892328 -1.099876e+00
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## [120,] -1.1845567409 1.395350e+00 -0.3068597184 0.9192946043 1.479643e+00
## [121,] -1.5187123447 2.611341e-02 -0.8417226831 1.5363947269 -8.551551e-01
## [122,] 0.0963814210 -3.415719e-01 -0.0742578624 0.7904871509 1.231423e+00
## [123,] -3.0590062622 -1.213890e+00 -0.8174688671 -0.6657376764 -6.542847e-01
## [124,] 1.0378749369 -4.408693e-01 -1.2221833518 0.4194268124 -1.349571e+00
## [125,] -2.7454090431 -2.359263e-02 0.4086532115 1.0437404807 -1.419375e+00
## [126,] 0.5441927572 8.930120e-01 0.4321531080 -1.2098662894 -6.278840e-01
## [127,] -2.3266958975 -4.020666e-01 -1.3895497476 -0.6049728050 -1.403252e-01
## [128,] -2.0283133325 2.378429e+00 -0.3693089001 -0.0512349372 8.295307e-01
## [129,] 0.8479750214 1.248930e+00 -0.1645315162 -0.9197873802 -3.631567e-01
## [130,] -0.5832134429 -1.697865e+00 -1.9818266289 -1.3868707890 2.598598e-01
## [131,] 0.6339766294 -2.350670e-02 -2.1430099778 -0.1439075260 1.397375e+00
## [132,] 1.6315064319 7.620357e-01 -1.2867844138 0.4317293019 3.215453e-01
## [133,] -2.9912130824 7.800729e-01 0.9445667244 0.4530405433 -7.159012e-01
## [134,] -0.8008751707 1.534371e+00 -0.7898981264 -0.2243265870 5.274882e-02
## [135,] 0.1543221160 1.224645e+00 -1.3744963119 -1.0818306397 -6.957113e-02
## [136,] -0.2986665348 -6.593540e-02 -1.3087927700 -0.4640056180 3.039044e-01
## [137,] -0.7270338867 1.146517e+00 0.1621679915 2.5142725303 -9.440958e-01
## [138,] 0.6841870700 1.125144e+00 -0.3877094647 -0.3488782139 7.830543e-01
## [139,] 0.3282876481 7.232008e-01 -0.2589367993 1.5628921026 -1.943809e-01
## [140,] -1.0251806869 2.422307e+00 -2.5336265312 1.0292161010 -6.672503e-01
## [141,] -0.4012687184 -1.156205e+00 -0.1108918420 -1.7220289657 -1.024368e+00
## [142,] 0.2430945024 6.314993e-02 -2.3486170237 0.1633201768 -2.069013e-01
## [143,] 0.6002554954 1.004257e+00 -0.2191219171 -1.6766149223 5.494872e-01
## [144,] 0.6485323277 -8.386051e-01 -0.9282158734 0.7195675993 -9.304540e-01
## [145,] 0.1929780994 3.011125e+00 2.0115376420 0.9704835159 9.740733e-01
## [146,] 0.4834523259 -3.270644e-01 0.0037837623 -2.7440827894 9.347372e-01
## [147,] 1.6201156084 2.530261e+00 -0.5275031508 0.0384074355 -1.498888e+00
## [148,] -0.8920139995 4.849777e-02 0.0288673119 0.3390482223 -3.431803e-01
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## [156,] 0.6425679221 2.767885e+00 0.6021673797 -0.2803791918 4.582263e-01
## [157,] 1.0347430577 1.071747e+00 -0.2814257335 0.5349994567 -6.681185e-01
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## [704,] -0.3195337507 6.447137e-01 0.4349070671 0.3470856330 1.663662e+00
## [705,] 0.7249243139 -3.938157e-01 -1.0341114588 0.6004410078 2.774966e-01

```

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## [706,] 2.0907610162 -8.937639e-01 -2.5207212333 1.1603941426 6.668713e-02
## [707,] -2.0754937690 -2.832783e-02 -2.2874149378 0.2152734498 8.974912e-01
## [708,] -0.1310632188 5.316586e-01 -1.7024568042 -0.7301491529 1.810453e+00
## [709,] 0.4950784871 1.353081e-01 -0.7591017543 0.7745670518 1.043663e+00
## [710,] -2.7209513113 4.169644e-01 1.1604269670 0.4494869663 9.094502e-01
## [711,] 0.6392988433 1.507576e+00 0.4709009372 2.2097253761 2.169112e+00
## [712,] -1.3200350891 -7.466265e-01 0.5690337887 -2.1923135898 1.058437e-01
## [713,] 1.4074008060 -9.206328e-02 0.9246686016 0.6313324115 -1.271419e+00
## [714,] 0.6789627535 2.933012e-01 -0.7743332576 -0.8874932212 7.192930e-01
## [715,] 0.7041787774 1.612378e+00 -0.6735872786 -0.3212740273 -4.923624e-01
## [716,] -0.4258194196 -3.097712e-01 0.0078265213 -1.3878272568 7.093548e-01
## [717,] 0.4858783861 -3.810378e-01 -0.2414558331 0.6788266460 -5.047948e-01
## [718,] 0.2671503262 -4.145128e-01 0.1097715689 -1.7958781228 4.618881e-01
## [719,] -1.7118920255 7.520031e-01 0.4965634754 0.8944330449 2.571641e+00
## [720,] 0.0532353548 1.352294e+00 -1.3985249613 -0.1898198095 7.157981e-01
## [721,] -2.6340847766 -7.100206e-01 -0.0752108038 0.6558784561 -5.245263e-01
## [722,] -1.0510748299 4.967436e-01 -1.4976485491 -0.2203366747 1.242873e+00
## [723,] -0.0458474828 1.193395e+00 -1.0761801939 0.4871005947 -1.300536e-01
## [724,] 0.4906168857 3.499667e-01 1.1741993549 -0.4512821801 3.403598e-01
## [725,] 0.6822782123 1.578373e+00 2.7533476433 -1.3511986898 -1.143139e+00
## [726,] -3.1894977902 8.307201e-01 -0.3050509141 -0.6252242899 -2.814356e-01
## [727,] 0.1645046571 -2.969357e-01 -0.3409907654 -0.5556641855 3.035753e-01
## [728,] 1.0611735279 4.214991e-01 -0.5346065967 2.6074043137 1.188919e+00
## [729,] 0.5017043611 3.920481e-01 -0.4538489967 -1.7883298470 2.071688e-01
## [730,] -1.9196338205 3.345076e-01 -0.4228763247 -0.6756684027 -8.838761e-02
## [731,] -1.1088797691 -5.650441e-01 -0.0353701698 -0.8775283568 -5.073914e-01
## [732,] -2.1814099294 -5.647868e-01 0.8756551325 -2.1933283540 -1.579448e-01
## [733,] -0.6464375235 -1.280407e+00 1.7361414357 0.1210970644 -2.967101e-01
## [734,] 1.6042756119 1.488649e+00 -0.7875531014 -0.2087640541 -8.582878e-02
## [735,] -0.7731581800 -1.473558e+00 1.3385803040 0.4815445932 -2.323883e+00
## [736,] -0.0672768677 -1.066231e+00 -0.7832232573 1.7139815887 1.587236e-02
## [737,] 0.7157083471 -4.858698e-01 0.1344842671 0.3883522790 -3.061841e-01
## [738,] 2.0723231165 3.979863e-01 2.0643466564 -1.1575569389 -1.910113e-01
## [739,] 0.5544361814 1.273457e+00 1.1686857771 0.0505451293 -1.004439e+00
## [740,] 1.0701099053 -2.751514e-01 -0.8816382009 1.0299320902 -1.510154e+00
## [741,] 0.7317928753 7.701566e-02 0.2034844411 0.1482662610 -1.688913e+00
## [742,] 1.6701355409 -1.000137e-01 1.3279249876 -0.0227651466 2.277876e-02
## [743,] 1.4781980908 -6.862061e-01 0.1234578641 1.2773986858 -1.109298e+00
## [744,] 0.3825693573 7.842719e-01 1.7676995824 0.2933021846 -1.355713e+00
## [745,] -2.1379751285 -5.259029e-01 0.8890599677 -0.1823934290 -3.692045e+00
## [746,] -1.5421397767 -1.974614e-01 0.0203742370 0.0482555321 2.062153e+00
## [747,] -0.5308165226 9.615967e-01 3.0388182685 1.6576428652 -1.016015e+00
## [748,] 0.3246902279 8.352559e-01 -1.6029100537 1.1678197927 1.403838e-01
## [749,] -1.3319196541 -1.302816e+00 2.1305583966 0.4620848259 7.657075e-01
## [750,] -1.3136051649 9.990306e-01 2.3441345330 0.7613140128 -2.273192e+00
## [751,] -0.7286137302 1.476086e+00 -1.5192329897 -1.3435182300 1.343471e+00
## [752,] 0.6203962197 -7.887240e-01 1.1506734524 1.2066385620 1.096008e+00
## [753,] -1.8619061570 -1.617827e+00 -1.9269991006 -0.9866888074 1.335436e+00
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## [755,] 0.6711336817 1.008952e+00 -0.5294731284 1.7837272900 7.493782e-02
## [756,] 1.7437433962 4.689233e-01 0.5400830038 -0.5698896392 -8.064926e-01
## [757,] -0.2364482029 -6.957793e-01 -0.6841856188 0.0904278422 2.268250e+00
## [758,] 0.6390896092 -4.378793e-01 -1.7889845688 1.3641019381 7.330954e-02
## [759,] -0.6401868512 1.745404e+00 -1.4706950203 -0.3691640826 -1.442855e+00

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## [760,] 0.3762853518 -1.377513e+00 -0.0996117008 0.2267085944 -1.512300e-01
## [761,] 0.0101308343 -2.693292e-01 2.2490748914 0.7853529184 8.774370e-02
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## [763,] -2.5887951238 -9.863003e-01 0.0919238379 0.6092209894 2.690024e-02
## [764,] -0.1591984258 4.354709e-01 -1.3862977330 -0.5346810133 1.128992e+00
## [765,] 1.7676399409 3.516109e-01 0.9817942740 -1.5251436439 1.806104e-01
## [766,] 0.9471740155 -1.039555e-02 -0.3819544927 0.1363453222 3.583008e-02
## [767,] -0.5109302815 1.283081e+00 -1.4174615348 -0.1921741864 -7.058553e-01
## [768,] 1.0127310975 -2.865295e-01 1.5384065543 -0.9171784623 -5.211721e-01
## [769,] -0.7448176201 -1.593524e+00 0.2367570419 0.1732725173 6.604318e-01
## [770,] 0.6619105742 5.750541e-01 1.6974527218 -0.2088607302 -1.469724e+00
## [771,] 0.4088213663 1.623039e+00 0.8384649877 0.8824156968 1.350189e+00
## [772,] 1.1698535227 -7.013794e-04 0.8098463009 0.1517294843 -1.082589e+00
## [773,] 1.1294751081 -6.552529e-01 -0.3593973912 -0.1520716054 -8.758415e-01
## [774,] 0.2854466170 1.310369e-01 0.3020195685 0.4190527970 -1.663736e-01
## [775,] 0.8829712873 5.809944e-01 2.8175619317 0.2861019519 6.739149e-01
## [776,] 0.6610622537 -2.794263e-01 0.8780646089 0.4962990520 -5.050660e-01
## [777,] -1.0270236143 1.130294e+00 0.4811014768 0.0759063481 5.936852e-01
## [778,] -0.3936925597 -6.996579e-01 1.5386106843 -0.8500393507 -2.301954e+00
## [779,] -1.8661620786 -5.493713e-01 1.0248308207 -1.5891434172 6.832456e-01
## [780,] -2.1591765958 9.651005e-02 -0.9155042394 0.2029924879 -4.553942e-02
## [781,] -2.2432942776 -7.195504e-01 0.2791576423 -0.2266531965 -9.221314e-01
## [782,] -0.2933571922 -1.332524e+00 1.4810203623 0.0652224065 -1.541523e+00
## [783,] -0.4789714579 -7.031689e-01 -1.2282426509 -1.0333167199 2.010369e-01
## [784,] 1.3079457264 5.639236e-02 -0.1195351708 -1.3439070103 1.979277e-01
## [785,] -0.2918085077 -1.486041e-02 2.1345524102 0.4471387615 -1.742046e+00
## [786,] 0.9947380364 1.043552e-03 -0.0180936627 -0.8910551629 -1.884218e-01
## [787,] -0.0110040752 -8.246506e-01 -0.2427192775 2.1411087612 -3.166596e-01
## [788,] 1.2607697927 8.052228e-01 1.0491793079 0.0446844979 -1.476171e-01
## [789,] 1.8546553162 -1.712933e-01 -0.1199848027 -1.6349880278 7.781155e-01
## [790,] -1.8880124385 -7.095793e-01 -0.9720388299 -1.5985909374 -9.357687e-01
## [791,] 0.3846495436 1.653953e+00 1.6379752776 1.4463320852 1.950623e-01
## [792,] -1.4392632484 -3.256014e-01 -0.1279520722 -2.8312719107 1.517043e-01
## [793,] -1.1016403229 -1.638624e+00 -0.0460927662 0.2571328404 -8.456052e-01
## [794,] 0.2948088624 1.527098e-01 -0.2236571768 0.9471119809 -1.020480e+00
## [795,] 0.5614378042 1.126469e+00 -0.2409923190 2.5977316122 -7.908781e-01
## [796,] -0.4713774308 5.179193e-01 1.9012648196 0.1603361538 2.830485e-01
## [797,] -1.2098556623 2.407699e+00 0.7172252478 -2.0132235769 -3.285046e-01
## [798,] -2.1786146713 3.663112e-01 -1.0282188418 0.6433547464 -5.808248e-01
## [799,] -3.0197848118 -6.216129e-01 -0.9875526460 -0.2151042517 -2.754762e-01
## [800,] 0.3819030762 8.145905e-01 1.1236081587 -1.0197343117 6.495391e-01
## [801,] -1.5867892685 -4.594258e-01 0.9523294882 0.6637751344 -1.872695e+00
## [802,] -0.4851508840 6.697301e-01 -0.2061769657 -0.8715503939 1.414878e+00
## [803,] 1.2102951414 7.646760e-01 0.5483827110 0.2212787088 8.840940e-01
## [804,] 0.3058894002 1.278596e+00 0.9497851979 2.8444857715 1.578757e+00
## [805,] 1.8949743680 8.080852e-01 -1.0895270658 1.8494023540 -2.240106e-01
## [806,] 0.0366688801 -1.101750e-01 -0.5068374152 1.5954077767 1.151757e+00
## [807,] 1.1504811916 -1.386696e+00 -0.8395006914 0.0139969978 3.245948e-01
## [808,] -1.2003261923 2.033065e-01 0.0049600254 0.3129083902 -2.066708e-01
## [809,] -0.5680350866 -1.022462e+00 -0.3835772759 0.4356546956 9.195253e-01
## [810,] -0.0275837050 -5.283653e-01 -0.0265312930 -1.6156798705 -8.942130e-01
## [811,] 0.7779969427 4.177469e-01 0.2739202266 0.6744744367 -9.334662e-01
## [812,] 1.4114827205 5.771608e-01 1.3502814023 0.3316683866 1.155568e+00
## [813,] -0.7351765693 -1.123519e+00 -0.6968791595 -0.1772451295 1.350650e+00

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## [814,] -1.8000541137 -7.315416e-01 0.2530100032 1.5864549253 -7.110647e-01
## [815,] 0.8745562262 5.691734e-01 1.4523167280 0.1950784223 -4.657414e-01
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## [817,] 0.1918772101 -7.855390e-01 -0.7467621062 1.6697905009 1.245108e+00
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## [819,] 0.9592014104 -4.013563e-01 -0.0572125817 1.6704174598 7.667001e-01
## [820,] -0.0885538881 -6.962535e-02 -0.4640771627 0.8241508817 -2.886536e+00
## [821,] 0.9707537427 1.878997e+00 0.0317519670 0.8525277302 1.111107e+00
## [822,] 0.6585060645 -5.521202e-01 1.8352109199 -0.7480958945 4.305687e-01
## [823,] 1.1133337300 4.542736e-01 -0.9328786787 0.6842851622 6.639901e-01
## [824,] -0.4387003196 2.858314e-01 0.0697917344 0.4603586056 1.261550e+00
## [825,] 0.0784381363 -7.753644e-01 1.8546240017 1.5978436561 -1.019031e+00
## [826,] -1.1745530188 1.443691e+00 0.1027622939 0.2626183711 -1.096043e+00
## [827,] 0.9842735623 1.857365e-01 -0.6758114211 0.8811200720 1.380138e+00
## [828,] -0.9422748253 1.909061e+00 0.7329146789 1.3532930632 1.203982e+00
## [829,] -1.2648926127 5.310774e-01 -0.0516237295 1.2249922974 1.548155e+00
## [830,] -1.6760331285 -1.959417e+00 0.2858343534 -0.7847587679 -9.504114e-01
## [831,] -0.2983240530 -3.379188e-01 0.5961338401 1.5053254389 -6.261817e-01
## [832,] -0.9158592789 -5.055692e-01 -0.3869810347 0.1072722715 -5.503481e-01
## [833,] -0.7427669610 6.001089e-01 1.5953929392 0.2021199082 7.908610e-02
## [834,] -0.1607062777 2.805765e-01 0.3844721544 1.3746578134 9.366309e-01
## [835,] 1.0424351034 -1.309624e-01 -0.8556264626 -0.3416956278 -2.194258e+00
## [836,] 0.1361716396 -1.438330e+00 -1.3697443900 -0.4304740080 -5.693177e-01
## [837,] -2.4709784793 -4.936739e-01 1.2824541067 -0.2808338481 -1.740375e+00
## [838,] 0.5329271176 -1.525654e+00 -0.9720955006 0.0568687059 1.437902e-01
## [839,] -2.9498404943 -4.084743e-01 -0.7450891313 0.4943262366 4.179536e-02
## [840,] 1.5694843172 -1.477986e+00 -0.7646522723 -0.3769530477 1.129677e+00
## [841,] 0.4593405087 4.334758e-02 0.7207259764 -0.0926820210 3.402148e-01
## [842,] 0.4262121382 -4.449160e-01 -0.4212842543 -0.6705861326 2.126677e+00
## [843,] -1.6281018695 1.754068e+00 -0.5498602630 -0.7619981516 -9.648417e-01
## [844,] 1.1320094006 -9.467277e-01 -2.0000711191 0.0057917454 -3.873502e-01
## [845,] 0.6600081032 -6.536622e-01 0.3896654357 0.4351002803 -1.065628e+00
## [846,] -1.6010604557 1.293665e+00 -0.2233877618 0.2176494358 -3.561136e-02
## [847,] 0.2798515657 2.669676e-01 1.7982234167 0.4765977682 1.448116e-01
## [848,] 0.5040935081 -7.861786e-01 1.1540593825 -0.7857654767 1.451254e+00
## [849,] 0.8142903786 9.243371e-01 2.2470079032 0.8814105710 1.563857e+00
## [850,] -1.2345498407 -1.217708e+00 -0.4137735997 0.1182136502 -2.482192e+00
## [851,] 0.1886496618 1.199974e-01 0.7517492432 0.0004850519 5.854692e-01
## [852,] 0.4042603213 -4.201722e-01 0.8495821644 -2.3496419190 9.319270e-01
## [853,] 1.3298864560 6.333755e-01 1.1471492803 -0.8921667460 -1.863089e+00
## [854,] 1.4458461895 -7.358571e-01 0.0909711049 -0.4653001288 3.145801e-01
## [855,] -0.6596358950 1.209848e-01 -1.4524976897 -0.9446967165 -7.482829e-01
## [856,] 0.2831555808 6.606436e-01 0.0901615194 0.4877944239 -1.039225e+00
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## [858,] -1.2921640929 -7.207367e-01 -1.2402674056 -0.2569919778 2.074526e-01
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## [860,] -1.6232789509 1.258530e+00 1.5118284897 0.8077296894 -1.880793e+00
## [861,] -1.1213585148 9.720663e-01 0.4644053971 0.9952239937 -1.097597e+00
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## [863,] 0.3398294755 -7.802353e-02 0.9808067787 2.3418493482 1.643801e+00
## [864,] 0.1820710830 -1.306158e+00 -0.9511454582 1.2717082880 3.049787e-01
## [865,] -2.6433828852 -1.538108e+00 0.1046571029 1.5788295004 -1.567114e+00
## [866,] -0.5843103652 -1.252950e+00 -0.6089811275 -0.2735420751 1.192465e+00
## [867,] 0.4952185680 -1.013152e-01 -0.1296443873 0.4122744760 1.267232e+00

```

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## [868,] 1.4348820089 1.030011e+00 0.9742058053 -1.4629355778 2.322142e-01
## [869,] -0.8865763441 -8.483109e-01 0.2432821435 -0.9565052216 1.039953e+00
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## [871,] -1.4941211816 -5.467812e-01 -1.2193061146 -0.7698001526 1.695530e+00
## [872,] -1.8143693433 -1.230417e+00 -0.6309130240 -0.7375248393 -1.859344e+00
## [873,] -0.0145313763 -1.174698e+00 -0.8945800247 0.1625211404 -9.749300e-01
## [874,] 0.2378810771 -2.512004e-01 0.7401087896 0.7891364897 -7.232419e-01
## [875,] -0.3853214104 -6.639241e-01 0.1538066005 0.7880591901 -1.082216e+00
## [876,] 0.2068579175 -5.929927e-01 -0.0382132212 0.0930292971 1.717555e+00
## [877,] 1.2974418182 1.710816e-01 -1.7332664972 0.9235765973 1.488087e+00
## [878,] 0.6407605916 3.573453e-01 0.6969102592 0.0132956873 3.663521e-01
## [879,] 0.8063479813 -2.109028e+00 0.9289440286 0.0012381571 2.593449e+00
## [880,] -0.0106807529 6.038580e-02 -1.1917163594 0.5697649881 2.408565e-01
## [881,] -0.0664061633 -9.058984e-01 1.0689023810 -0.5408044665 8.667388e-01
## [882,] 0.3533653222 1.979965e+00 -1.0881824887 -0.4742746820 9.837683e-01
## [883,] -1.3977009356 -3.611106e-02 1.5867159454 -2.5123917469 -3.274716e-01
## [884,] 0.8262520972 -1.372316e+00 0.0003600355 0.7152408483 -1.096110e+00
## [885,] 0.1553095340 -1.588771e+00 1.6557926677 -1.2863989412 1.170250e-01
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## [889,] -0.1791648159 1.143472e+00 0.7206384665 0.2872754438 -1.112256e+00
## [890,] -1.6908352047 -2.268340e-01 -1.4436086404 -0.0765172215 -2.490142e-02
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## [892,] 1.5079791878 5.771094e-02 -1.0513277511 -0.3053540232 -8.008372e-01
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## [894,] 0.9131315541 -1.446881e+00 -0.1296080854 0.1431140107 -2.504083e+00
## [895,] 0.9840058499 1.041602e-02 0.7727901324 1.0322934408 -5.792488e-02
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## [1011,] 1.8006216909 -1.364070e-01 -0.5160494228 -0.2058262749 2.013980e-01
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## [1015,] 1.2738170735 -2.775007e+00 0.2272367173 0.5239752242 8.263681e-02
## [1016,] -0.1004864864 -1.170466e+00 0.5681054917 -0.8720004260 2.135811e+00
## [1017,] -0.4853722877 -1.148315e+00 2.0359616553 0.7337858273 -2.691115e-01
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## [1019,] 0.3744855591 -4.632601e-01 0.4610835086 2.7988460583 -6.911849e-01
## [1020,] -0.5641396801 -2.670096e+00 1.0544281969 -0.3544613608 -5.622165e-01
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## [1069,] -1.3017306909 -4.838155e-01 1.0039069621 0.2080911901 -2.192236e-01
## [1070,] -0.1686992185 -3.234613e-02 -1.4997182081 1.3287964018 -1.746426e+00
## [1071,] 1.5494873595 -9.730312e-01 0.3989617055 0.5547858082 1.163177e+00
## [1072,] 0.5059131048 -7.139757e-01 3.1334002452 -1.1073454229 -3.800649e-01
## [1073,] 0.2588005933 -4.960729e-01 0.7050053780 -0.4171509898 3.213109e-01
## [1074,] -1.5579802644 -7.923884e-01 0.2183387718 0.4498314598 -1.261396e+00
## [1075,] 0.7198204569 -7.674369e-01 1.6141904460 0.3253728647 3.465237e-01
## [1076,] 2.3148720334 -2.910505e-01 1.9672455197 0.0974128704 3.729405e-01
## [1077,] 0.2274089598 -8.047627e-01 0.5859616275 0.4045031475 -9.612228e-02
## [1078,] -1.8595393740 -3.140802e+00 -0.9739996741 -0.7489046702 -1.195303e+00
## [1079,] -1.1465869703 -7.221972e-01 1.4019688140 0.5050234448 2.781506e+00
## [1080,] 1.4798878152 -1.822573e-01 -0.1922015403 -0.0994623934 -1.236552e-01
## [1081,] 0.7363600534 -5.402006e-01 1.0147587437 -0.1985449609 1.131757e+00
## [1082,] -0.1805101270 -4.744809e-01 -0.0916153565 -0.2428195336 -7.526909e-02
## [1083,] 0.0372159545 -1.320056e+00 0.2340208584 1.2841042066 -2.950851e-01

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## [1084,] -1.5182646922 -2.026405e+00 -0.1903975698 0.0496136234 2.098574e-02
## [1085,] -0.0424162856 1.344773e+00 0.4438574983 -1.5443498260 8.588257e-01
## [1086,] -1.2191423250 -2.934647e-01 -0.1229257931 1.0606806754 -9.041513e-01
## [1087,] -1.8956357776 3.880035e-02 1.0139192291 1.5604128341 1.866446e+00
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## [1090,] 0.5345158062 -9.803653e-01 -0.5046088791 1.0699935086 -9.941194e-01
## [1091,] -0.0483718357 1.096633e-01 2.6525187663 -1.5243008901 -9.983265e-01
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## [1093,] 0.5492846717 -5.262635e-01 -1.0438948765 -1.2250274914 1.726695e+00
## [1094,] -1.4478153319 1.485123e+00 0.2898751786 1.6597895919 3.886241e-01
## [1095,] 1.4643100480 -5.284736e-01 0.4274143264 -1.0862230687 1.222650e-01
## [1096,] -1.8456461398 -1.217108e+00 -0.1012502900 0.8249528062 9.413844e-01
## [1097,] -0.0612366425 2.120903e+00 0.2427447895 -0.2027799599 6.449337e-01
## [1098,] -0.8833139539 -7.880813e-01 2.2251229029 -1.0918653652 -1.073592e-01
## [1099,] -0.5703177526 1.785257e+00 -0.2992164396 1.2042507350 1.460492e+00
## [1100,] -0.1292661149 -1.798133e+00 1.5405375796 -0.6502832673 -1.071804e+00
## [1101,] 0.1904706273 -1.983398e+00 0.9123412617 0.0031725928 -4.861868e-01
## [1102,] 0.1711636627 -3.674116e-01 1.7119216496 -0.3165982602 -4.581854e-01
## [1103,] 0.5636334301 5.493411e-01 -1.5152749007 0.5219045977 8.324611e-01
## [1104,] -0.3152679298 -1.859007e+00 -0.5495362315 0.0903903455 1.236386e+00
## [1105,] 0.0720466508 -1.495888e+00 -0.3754689021 0.8151943604 3.319011e-01
## [1106,] 0.8473284960 -1.420539e+00 -1.1843921035 0.3619264981 -1.465241e+00
## [1107,] -0.9835080946 -1.387037e+00 0.2086384728 -0.1401453894 -7.445822e-01
## [1108,] 0.2851765754 -6.208298e-01 -0.3509133514 1.8295307770 1.178257e+00
## [1109,] 0.9874044672 -6.588036e-01 1.5521919575 -0.9465770508 4.763387e-01
## [1110,] 0.3735768574 -3.858777e-01 0.6796527366 -0.7087372282 7.539621e-01
## [1111,] -2.7617075470 -9.980076e-01 0.8686310563 -0.2816829294 2.626380e-01
## [1112,] -0.5851327029 -1.101726e+00 1.4584109334 -0.9078482257 -1.090989e+00
## [1113,] -1.2344927219 -1.476150e+00 0.3333994468 -0.7161165607 -7.060472e-01
## [1114,] 0.4354836340 -3.218464e-01 0.8144937070 -0.5817797131 1.498486e+00
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## [1117,] 0.0054873418 -4.741051e-01 1.0474634710 1.4593687511 6.721128e-01
## [1118,] 0.9813856462 -2.542579e-01 -0.7308549831 1.2541685943 -9.563122e-01
## [1119,] 1.7556873537 -1.909145e+00 0.5095212381 0.5353960748 -1.673901e+00
## [1120,] 0.3342396093 -7.591107e-01 -1.0029791583 -0.0514891501 8.818360e-01
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## [1122,] 2.0732436945 -1.729994e+00 0.9266576745 0.2296638764 -9.591428e-01
## [1123,] -0.1893624815 3.774859e-02 -0.8109783904 -2.0224207018 2.795254e-01
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## [1138,] -1.8643175029 -1.818294e-01 0.4280847123 0.5085181735 2.973264e-01
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## [1144,] -1.1417328322 -1.836033e+00 1.6615659801 2.2031380958 9.787323e-01
## [1145,] 1.3630634857 -5.990538e-01 0.6220996034 -0.6791553041 2.481830e+00
## [1146,] -1.1167854926 -8.443291e-01 0.1843549826 -0.0905518601 7.105991e-01
## [1147,] 0.3626083471 -4.850719e-01 0.5193696954 2.0606587760 8.906918e-01
## [1148,] -0.6633286276 -1.992585e+00 -0.4737026875 -0.3436267076 1.287657e+00
## [1149,] -0.1664190060 -1.970318e+00 -1.4392970090 -1.0391747666 6.572095e-01
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## [1151,] -0.0146602791 -1.848456e+00 -1.2719925536 0.4996136803 2.324767e+00
## [1152,] -0.5795843537 -1.023197e+00 2.8794401132 -0.4666977043 -1.291083e+00
## [1153,] 1.0718677556 6.225566e-02 0.4836695663 0.1822520117 6.897431e-01
## [1154,] -0.9395138380 5.239327e-01 0.7623867666 -0.0034700951 7.137778e-01
## [1155,] 0.0713017671 -7.963545e-01 -0.3092405717 -0.0541261788 3.920462e-01
## [1156,] 0.2388727893 -1.722993e-01 1.0227934481 0.0534011348 1.197437e-01
## [1157,] -1.0888017903 -9.875006e-01 0.1720966338 0.5580965950 7.792782e-02
## [1158,] 0.6968397149 -7.389118e-01 0.7553823285 1.3029967508 1.420641e+00
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## [1168,] -3.4223849209 1.028312e+00 0.9941655013 0.8865824859 -1.142760e+00
## [1169,] 0.1698251354 1.525517e+00 0.7356382905 -0.2186332895 -1.506816e-01
## [1170,] 0.3206324012 -1.739282e+00 -0.2544442765 -0.2153705182 7.454594e-01
## [1171,] 0.5096745087 -4.534618e-02 -1.1649059641 1.1235127507 1.226327e+00
## [1172,] -2.4481952589 -1.602037e+00 -1.9568219417 -0.2729006338 -2.023363e+00
## [1173,] 0.6926742833 -1.572180e-01 1.3732651126 0.6747356559 1.006041e+00
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## [1176,] 0.8879571086 -8.263776e-01 0.4337834443 -0.7601760198 1.261438e+00
## [1177,] -0.1903035866 -2.271491e+00 0.4765401492 -0.2842932227 -6.338552e-01
## [1178,] -0.7796474016 -1.181752e+00 1.5929546794 -0.4038985066 1.197700e+00
## [1179,] 1.8870071197 -9.755571e-02 0.7717887379 -0.5565446094 -4.921970e-01
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## [1182,] -0.7521220748 1.098176e+00 2.0055743931 -0.1702188930 -1.096477e+00
## [1183,] 1.9108881741 6.381041e-01 2.2805746327 0.3681946915 5.974922e-01
## [1184,] 0.5470616264 -9.807997e-01 0.9201836154 -1.0880599627 7.232594e-01
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## [1188,] 1.2723379158 -1.158319e-01 -0.4102253083 0.2177136303 1.706504e+00
## [1189,] -1.0360338943 -1.784571e-01 -0.1084524125 -0.0047043362 -1.822386e+00
## [1190,] 1.3883465119 -8.960468e-01 0.3367103270 -0.0769433436 2.294531e-01
## [1191,] 0.4265103100 3.994399e-01 1.0871552255 -0.5466045341 2.420726e-01

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## [1192,] 0.6298068906 -1.052730e+00 0.2920263307 1.3154310060 -1.139390e+00
## [1193,] -1.8861844658 -5.872086e-01 1.0563059351 -1.5651396040 1.125253e+00
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## [1200,] -0.7801711341 -1.915707e+00 -1.5532724027 1.2688937744 -8.276568e-01
## [1201,] -1.0300639254 4.315732e-01 0.8707206216 0.2349683144 -6.407446e-01
## [1202,] -2.1181863101 6.889686e-01 1.2207604623 -1.1168547941 -5.546563e-01
## [1203,] 1.3443349616 3.292438e-01 0.3703656844 -1.8482530498 8.967409e-02
## [1204,] 0.8112986543 -4.258919e-01 -1.7606367331 0.5307898707 4.710480e-01
## [1205,] -2.3129277723 -1.050973e-02 0.1847398669 -1.3692981035 9.989973e-01
## [1206,] -0.5952128277 -1.548144e+00 0.4061046128 -0.0287659944 4.031055e-01
## [1207,] 1.5793793813 -1.176500e-01 0.3557112960 0.5550558001 1.650054e+00
## [1208,] -0.8482447334 -1.083584e+00 -0.4447000140 -0.7820615835 7.362874e-01
## [1209,] 0.7296891841 2.524678e-01 0.6387147288 0.0329698120 -3.555002e-01
## [1210,] 0.6057798015 -2.699306e-01 2.5931277473 0.7659637821 3.910507e-01
## [1211,] 0.1752544454 -2.316713e+00 -0.3107182463 -0.8357095661 1.025956e+00
## [1212,] 0.1673429614 1.344964e+00 0.8580772343 1.7045220733 -7.688699e-01
## [1213,] -0.0039074732 -3.808454e-01 1.1433567378 1.2539612299 -2.486773e-01
## [1214,] -2.1428340963 -3.311318e-01 0.5192698939 0.6192112216 6.592564e-01
## [1215,] -0.3216702170 -1.672176e-01 -0.7468320954 -0.4004957221 2.958802e-01
## [1216,] -0.0816751348 -6.162592e-01 0.6235008273 1.5188100419 9.630523e-01
## [1217,] -0.0108436369 4.571163e-01 -0.1986561749 -0.7083705662 4.865122e-03
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## [1220,] 0.5778085067 3.488312e-02 0.8199595926 -0.8008513242 1.538779e+00
## [1221,] 0.9643983485 -6.671893e-01 -0.9063833008 0.9949301934 1.120522e-01
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## [1223,] -2.3218954060 2.333426e-01 2.3218723603 1.4823118182 -1.558113e-01
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## [1225,] -0.1325980268 -5.926760e-01 2.2827731390 0.3304819014 9.153699e-01
## [1226,] -0.1807842785 3.797839e-01 1.6272692638 -1.5423314242 6.681013e-01
## [1227,] -0.0282619130 -1.479716e+00 0.2018081009 2.1447013404 -6.759768e-01
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## [1230,] -0.7471477374 -1.517166e+00 0.4496454747 -0.9441313601 -5.604406e-01
## [1231,] -1.1943572901 -1.922557e+00 0.7003356516 -0.8480998158 3.736305e-01
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## [1233,] 0.2795557778 -6.103001e-01 -0.4722903067 0.5035629107 7.317010e-01
## [1234,] 0.0284275990 2.964915e-01 -0.5303716743 1.6641638643 -1.224814e+00
## [1235,] 0.3038263235 -1.331577e+00 -1.3042176402 1.4101219006 9.462075e-01
## [1236,] 0.1806829436 4.338218e-01 -0.5547199780 0.2176619180 -1.377130e+00
## [1237,] -3.1522725272 -1.920338e+00 -0.1016173286 -0.9239093159 -4.947542e-01
## [1238,] -0.7123793595 -5.243579e-01 1.5734198775 1.1699011121 -1.923132e+00
## [1239,] 0.4859001737 -3.034041e-01 0.6190308922 -0.5220306820 -8.982323e-01
## [1240,] 0.7851570443 1.125021e+00 0.8432673455 -0.3130795787 1.097567e+00
## [1241,] -0.5976406087 1.161802e+00 -0.5831144526 1.3807729931 2.145413e+00
## [1242,] -0.7619312194 -5.240962e-01 0.4692083389 1.6804626340 -6.478810e-01
## [1243,] 0.3154944435 -2.151248e+00 -0.5492849030 0.0769737678 -9.401924e-01
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## [1246,] 0.3635063579 -2.143074e-01 -0.9706431002 1.3208323169 1.270475e-01
## [1247,] -2.5621400534 -1.126237e-01 0.1527340349 1.9275759348 -1.624583e-01
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## [1250,] -0.9017701742 -1.227276e+00 1.8662581653 0.2133433945 -7.400493e-01
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## [1253,] -0.2825098738 -9.182754e-01 0.0104938864 -0.2044901489 7.032315e-01
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## [1255,] 1.5459960417 -4.529013e-01 -0.7812544334 -0.2035851918 1.591148e+00
## [1256,] -2.3115540506 -1.871151e+00 -0.2654717391 -0.1355972280 -4.688692e-01
## [1257,] 0.2802825756 -8.341864e-01 1.6427219402 -0.4404419941 -6.978044e-01
## [1258,] -1.5040008752 -1.669537e+00 0.4953775925 1.1324970552 -1.049133e+00
## [1259,] 0.0931479425 -1.066294e+00 1.3301745341 -2.2348478352 6.215846e-01
## [1260,] 0.4929499803 -1.098499e+00 -0.2273483320 0.8423101451 9.767154e-01
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## [1262,] -1.3809283737 9.276298e-01 1.8726823807 0.9340321120 -8.465514e-02
## [1263,] -2.0174229301 7.965585e-01 1.3597829378 -0.6639305110 1.177317e+00
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## [1265,] -0.0303199092 -7.075544e-01 2.7482970579 -0.1196478532 -2.834140e-01
## [1266,] -0.3463449627 -4.229867e-01 -0.6189628592 -0.5474818490 1.880311e+00
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## [1268,] -0.7627152209 5.986454e-01 -0.7370522170 0.6084734758 1.919135e+00
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## [1274,] -1.1234999962 -1.476757e-01 1.1028850257 -3.0774453941 -7.941130e-01
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## [1340,] -1.8080002731 -1.241008e-01 1.7924207730 -0.3494926516 7.092556e-01
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## [1350,] -0.8309503054 -2.592108e-01 0.6378900366 0.1686107948 -1.019382e+00
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## [1354,] -3.1675761273 -5.511199e-01 1.8936629682 -0.8838685395 1.740813e+00
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## [1366,] -0.4957502016 -1.223296e+00 -0.3417343985 -0.9669100533 2.249550e+00
## [1367,] -0.3985509958 -4.474522e-01 0.3847467661 2.4767338558 2.832183e-01
## [1368,] 0.7693463520 -6.993438e-01 -0.6988904703 -0.8907513007 -5.388122e-01
## [1369,] -1.3579886549 -3.248073e-01 1.0089533841 0.5121755718 1.552674e+00
## [1370,] -1.9858006025 1.005265e+00 -0.3915351608 -1.0817934473 1.422181e+00
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## [1377,] 0.1463592928 3.071586e-01 -0.5883660414 1.0538543862 1.076798e+00
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## [1387,] 0.8908660248 -2.278475e+00 0.6153873597 -1.0379842076 5.522207e-01
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## [1389,] 1.1640116703 1.091619e-01 1.8196690389 0.6700971711 3.776302e-01
## [1390,] 0.9861327394 -7.018553e-01 2.1202150616 -0.2047124911 -2.092150e-01
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## [1392,] 0.7807407431 -1.909624e+00 0.0310167565 0.5702102526 -1.858327e+00
## [1393,] 0.0210223866 5.887685e-01 -0.9997803865 0.1593822237 1.048960e+00
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## [1398,] 0.5849358212 -1.610090e+00 1.2545942910 0.6635786180 -1.200829e+00
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## [1400,] -0.0916389664 -8.201291e-01 0.4667052847 1.9153719461 -1.865998e-01
## [1401,] -0.6466296878 -2.273318e-01 -0.3766271011 -1.2264460745 1.080868e+00
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## [1409,] 2.1039966989 -4.444163e-01 1.5646486152 -0.8757564938 8.716655e-01
## [1410,] 0.1691177930 -5.787098e-01 2.3545917537 -0.9678926889 1.765887e+00
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## [1421,] 1.1699451356 -6.389963e-01 1.2755188343 0.7853603517 5.578844e-01
## [1422,] -0.3169740682 -6.441176e-01 0.4307472698 -0.2780607739 -9.898192e-01
## [1423,] -0.4056962010 7.254219e-01 0.2834598938 -0.8106873302 1.566603e+00
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## [1432,] 1.0186407950 -8.780736e-02 1.0499452740 0.3605154748 4.904069e-01
## [1433,] -0.5101767962 -8.480638e-02 0.8227275304 0.4078837447 6.433173e-01
## [1434,] -0.5141549300 -2.289677e-01 -0.3959948830 -1.5148516907 -1.474259e+00
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## [1440,] 0.3942741885 -1.225945e+00 0.6164087513 0.4433666516 -8.903171e-01
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## [1443,] -1.7260362954 -8.654238e-02 1.3118481239 0.1347189931 6.699082e-02
## [1444,] -0.0336636805 -1.554340e+00 0.6319047362 1.9250000136 -1.527630e+00
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## [1448,] -0.7397767981 -1.227783e+00 1.7146532435 2.0728419404 6.108036e-01
## [1449,] 0.9888189451 -6.790503e-01 1.4012351867 0.2855450321 -4.405652e-01
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## [1462,] -3.1834275911 -3.600654e-01 2.5453473415 -0.2027225271 8.354724e-01
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## [1466,] 0.6498516829 2.314285e-01 0.0503014808 0.8080471261 1.385103e+00
## [1467,] 0.5795655206 -3.540497e-01 3.6246762576 -1.0361440844 -5.629882e-01
## [1468,] -1.0073285649 -1.591492e+00 -0.8516446688 0.3937932501 9.876062e-01
## [1469,] 0.7118083071 -7.355112e-02 0.2934837406 0.1084045856 9.765082e-01
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## [1,] 2.162257424 0.221689882 -0.6664419443 0.4452430452 2.042215697
## [2,] -0.892781469 -2.190768017 -1.4195861185 -0.4059923327 0.731069553
## [3,] -1.463713405 1.477527187 0.2310424460 -0.4268594994 0.828847689
## [4,] 1.367252364 -0.670584496 -0.1190459385 2.0865670132 0.615975960
## [5,] -1.995997718 -1.098300975 -1.1160217881 0.1585913076 -0.107263166
## [6,] 0.520378257 -0.015477510 -0.2322502210 -0.2417911914 1.577883561
## [7,] 1.196488307 0.398861592 -0.4072773404 1.0248861534 0.407678007
## [8,] 0.757025297 -0.472578883 -0.0956751536 -1.7296461608 0.167894301
## [9,] -0.178355622 0.539489079 -0.2774634914 -0.3010622616 -0.562061245
## [10,] 0.609640782 -0.449709638 1.7704770097 -0.7144859657 -0.093090514
## [11,] -0.450248399 -1.749281111 0.1050358986 -0.8189341500 -1.647076091
## [12,] 0.666155286 -1.118808995 -1.4575061920 0.8445906428 -1.323198496
## [13,] -0.172102225 -1.388605116 -0.4895146305 -0.8223774282 -1.143514888
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## [15,] -0.339265427 0.001980232 -0.4761828433 0.3342305708 -1.948985364
## [16,] 0.640364680 -0.626426298 -0.3356408721 1.0173211333 -0.309952758
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## [18,] 0.258797385 -0.012598717 1.0423187341 -0.9031824283 0.534747573
## [19,] 0.315407411 -1.508170826 -0.2813603835 0.7949435732 0.065897852
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## [22,] -1.457470376 0.586122363 -0.2181747389 0.6196739402 1.161499433
## [23,] 0.504561390 -1.766592776 -1.1422027191 1.2051393553 -1.116311187
## [24,] 0.090404332 -2.470633040 -0.5651244045 -1.1628577418 -1.304660368
## [25,] -1.243481683 -1.009963899 -1.0727778007 -1.3443805301 0.881394356
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## [1402,] 2.702493918 0.598243832 -1.1095726996 -2.1720995034 -1.041610221
## [1403,] 0.505632036 -0.323018474 0.3440120756 0.4221055742 0.165503371
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## [4,] 0.685926800 -0.275584107 1.1081247691 -6.620085e-01 -1.1843435179
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## [17,] -1.922474284 -0.643357899 0.9609208622 -2.569477e-01 0.1591609966
## [18,] 0.835746685 -0.438694749 0.4759286698 2.244536e-01 1.5040724154
## [19,] 1.452302715 0.103354562 0.4100659796 -1.253617e+00 -0.4723244700
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## [32,] 0.564011225 -0.473145830 1.2237910057 -1.391550e+00 -1.7595896994
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## [685,] -0.562443699 1.179324973 -0.2108502252 -6.623444e-01 -0.0745873976
## [686,] 0.229625291 0.775872948 0.0593571810 3.709554e-01 -0.8665704516
## [687,] -0.772754367 -0.645944066 -0.3747114955 2.872814e-02 -0.0802037975
## [688,] -0.698217804 -1.209045209 0.6042126593 -1.906015e+00 -0.8040535007
## [689,] 0.578049969 0.404581999 -0.4804289561 2.986303e-01 -1.0954895111
## [690,] 0.003800765 1.394154436 1.0629100052 -3.299212e-01 1.1982006449
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## [693,] 1.274857016 0.458408887 -0.0308721285 -2.834533e-01 0.3804376948
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## [699,] 1.396396182 -0.210999646 -0.9984108239 5.815748e-01 0.1045687385
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## [842,] -0.698266051 0.898597378 -2.0255150151 5.091996e-01 -0.2978428348
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## [860,] 1.145749757 -0.231812375 -0.4345672261 -2.664448e-01 0.2550743463
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## [1433,] -0.091837271 -0.595249753 1.2833241546 1.653634e+00 0.7097560192
## [1434,] 0.087493725 -1.299523575 1.2718346516 9.371097e-01 1.1428239897
## [1435,] -1.000461709 0.487629858 0.5496355808 5.260909e-01 0.0967223685

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## [1436,] -0.163167993 -0.834127610 1.5021863279 2.019316e-01 0.1460755832
## [1437,] -2.284288569 -1.436596596 1.0355031061 4.034144e-01 -0.5623920719
## [1438,] -0.634322842 -1.905225910 -0.2457181671 9.696569e-01 1.7421728239
## [1439,] -2.424906684 1.064655846 1.0159039283 4.073433e-01 -1.0191729072
## [1440,] 1.206473706 -1.027486357 -0.1310566693 -1.341245e-01 1.7857225275
## [1441,] 0.388445071 -1.101855573 -0.5283927612 1.163776e+00 0.8830296979
## [1442,] -1.113016399 0.013904825 1.9646646073 -5.256702e-01 0.3625892497
## [1443,] 0.295761532 0.339548240 3.5889472424 -8.168064e-01 -1.1085814666
## [1444,] -0.942225047 0.461705686 1.0286087004 8.250786e-01 0.6176177201
## [1445,] -3.146960755 -1.077852980 -1.0204539819 -1.169801e+00 1.8577813989
## [1446,] 0.628692941 -0.549922860 -1.5174809265 1.893421e+00 -0.7149725593
## [1447,] 0.971110453 -1.171948102 -2.8907792131 2.664392e-01 0.3368395864
## [1448,] -0.371478045 -1.782936605 -1.1788319870 -1.783193e+00 0.8442946800
## [1449,] -1.081409672 -1.401831272 -0.3763084354 1.901502e-01 -1.5956910060
## [1450,] -1.345539159 -0.974396249 -0.2155281785 -3.172128e-01 0.5668530417
## [1451,] 0.977906581 -0.741285357 0.1244804333 1.841713e+00 -1.2236449242
## [1452,] 1.396792938 -0.880184533 -0.7400504768 1.202233e+00 1.8707722026
## [1453,] -0.430782267 -1.354556884 1.0534748224 -6.764060e-01 -0.1666735544
## [1454,] 1.341643574 -0.797404889 -0.5925912738 -5.496202e-01 0.8031060533
## [1455,] -0.653530028 0.176438240 -1.1394544165 5.756338e-01 -0.1554625937
## [1456,] 0.141023117 -1.491334908 -0.8835399606 3.420941e-01 -1.4358873454
## [1457,] 1.445770959 -1.296797093 1.3005436196 1.186388e-02 -1.2753662400
## [1458,] 1.249267696 -0.877015458 0.3475766700 -4.114992e-01 0.7776274260
## [1459,] -0.087711815 -2.535465140 -1.4986016627 -5.851263e-01 -0.0964494746
## [1460,] 0.381062016 0.384197259 0.6983303568 2.147673e-01 -0.8792943906
## [1461,] -1.083183404 -0.313563617 -2.8887527925 4.656127e-01 0.4071834692
## [1462,] -1.027009845 -0.026779910 -0.7902927968 9.251656e-01 -1.5197760488
## [1463,] 0.619247604 -0.037676001 -1.6245281377 1.801861e+00 1.0273388107
## [1464,] -0.024505492 -0.402798073 0.6994611518 1.913182e+00 1.2674975281
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## [1467,] -1.319944641 0.260744885 0.0769391988 5.730326e-01 -0.9035685691
## [1468,] 0.279354325 -0.918754846 0.8474038813 1.610496e+00 1.0691433491
## [1469,] -1.664202600 -1.243207126 -0.6773888799 -2.414187e-01 0.1455975358
## [1470,] 1.166561371 -0.097185725 1.5355617978 7.408994e-01 0.2862666558
##          PC21          PC22          PC23          PC24          PC25
## [1,] 0.0602678851 1.707564551 -0.2695242099 -7.487729e-01 -0.5790510070
## [2,] 0.5553118495 0.071869990 -1.3615631085 5.397135e-01 -1.3205700682
## [3,] 1.1441587954 1.350439588 0.0003144211 1.126038e-01 -0.2911715215
## [4,] 0.8461827472 -0.703572013 -0.2219598412 3.918408e-01 0.5374132794
## [5,] -0.9478136742 1.878857183 -0.6786012375 -7.943180e-01 1.1481841353
## [6,] 0.9542701390 0.340659812 0.1785837635 1.834423e-01 -0.3824137743
## [7,] 1.9059545540 -0.145195909 -1.0935400187 1.651540e+00 -0.2808421371
## [8,] 0.9819126213 0.519382819 0.3423119501 5.816282e-01 0.0849679362
## [9,] 2.0629581879 -0.579655819 -0.3499682926 -5.417066e-01 -0.3955115247
## [10,] 0.7536409630 1.489910488 0.1089038580 -1.791318e-01 1.0760715082
## [11,] 1.2410425234 -0.274947888 -0.4065469313 1.905064e-01 -0.2340799321
## [12,] 0.7731475114 -0.412427821 -0.9221065535 -9.799656e-01 -0.2053561687
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## [14,] 0.1181163671 -0.091244063 0.1383330776 7.589984e-01 -0.0995214117
## [15,] 1.7822632385 1.510717259 -0.4379873753 -9.814914e-01 0.0721322528
## [16,] 0.1485902040 -0.866588953 1.2089946269 5.997723e-02 1.1343671349
## [17,] 1.2146552452 -0.255439713 -1.0245269536 -2.669848e-01 0.1154279806
## [18,] 2.7330119734 0.026092369 0.5520984448 -4.753391e-01 0.8786853699

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## [19,] -0.5318833858 -0.967431113 -0.0093151479 1.194684e-01 -1.0081543674
## [20,] 1.1943412368 1.163441284 -0.9796387229 -5.432845e-02 0.6074170391
## [21,] 1.7735998368 -0.489217737 0.9647769575 -4.936030e-01 0.2358882220
## [22,] 1.2492435179 1.125090631 0.1072570050 -4.462231e-01 -0.7192415466
## [23,] 0.5637674275 -1.276615406 -0.0568706160 -9.654344e-01 -0.1708011003
## [24,] 1.2713359525 0.877238009 0.3959269153 -4.400274e-01 0.5603705048
## [25,] 0.3986728960 0.580111070 0.1776620622 6.335889e-01 -1.0831129418
## [26,] -0.1371099701 -0.534790955 0.8054453855 -5.374236e-01 -0.7562874427
## [27,] 1.5877268228 0.732353260 -0.6669542062 7.962655e-01 0.2853115803
## [28,] 0.0434869142 -1.249353212 0.2008028758 9.885285e-01 -0.0817142499
## [29,] -0.4699894304 -0.049068885 -0.2602173922 -7.582803e-01 -0.8143412278
## [30,] 0.4417249959 -2.365252343 1.2868416288 -1.341444e-01 0.6310462122
## [31,] 0.1276227102 0.470545217 0.2904083210 -2.198249e-02 0.1200812114
## [32,] 0.5754428979 -0.481176134 -0.2508120463 2.160456e-01 0.0137955970
## [33,] 2.2529227935 0.622176353 -0.7669613390 -2.880016e-01 -0.1863428392
## [34,] 1.5715414493 1.335746642 1.4528610034 7.518718e-01 -1.7099412929
## [35,] 1.0914226511 0.318915863 0.8930228200 8.149712e-02 0.4255897929
## [36,] -0.0280387307 -0.029127732 0.5404416002 9.324703e-01 -1.2713852025
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## [38,] 1.5314136528 0.422774710 0.4623647426 9.260327e-01 -0.0275691019
## [39,] -0.1341794652 0.318307564 -1.3865993894 -6.483450e-01 1.2513443710
## [40,] 2.2082784218 -0.124277902 0.4183374048 2.380519e-01 -0.0548575058
## [41,] 0.6757595718 0.069355555 0.3694671155 6.590585e-01 -0.2316761370
## [42,] 0.8575934304 -1.133919427 1.0295311639 -1.397229e-02 0.0865216320
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## [54,] 2.1902310510 -1.258098648 -0.5471085121 -2.262747e-01 1.2063011209
## [55,] -0.6932444976 0.284777651 -0.5562893018 -1.289724e+00 1.4614184003
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## [57,] 1.2207629285 -1.857677293 0.0716741033 -1.159952e+00 -0.0624802253
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## [60,] -0.4436686983 -1.058633253 -0.4605993024 -1.951878e-01 -0.5500929590
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## [63,] -0.9631039519 -0.188741257 0.2662639943 9.491132e-01 1.8529930648
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## [73,] 1.2034837664 -0.900656275 0.1089580445 3.574532e-01 0.6118754757
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## [80,] -0.1665360496 0.670017562 -1.3666305977 -2.559646e-01 0.3778730199
## [81,] -0.2183936591 0.057582626 -0.2117311401 -3.996953e-02 0.5986140721
## [82,] -0.1541991053 -0.687911965 -1.3006052610 1.912709e-01 -0.1705652758
## [83,] 0.3603034178 0.431361683 -0.3046071946 1.367599e+00 -0.5368772129
## [84,] -0.1364187873 0.660182313 -1.7244958672 -1.788453e+00 -0.3199970340
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## [86,] 0.6526635496 -0.024637892 -1.4192137914 8.980176e-01 -0.9630618608
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## [104,] -0.5121955996 -0.609418252 -0.8310018387 -8.691689e-01 -0.7453868287
## [105,] 0.5642431777 0.598315825 0.3446989605 9.854715e-02 -0.2462521644
## [106,] 0.1666048996 0.037080428 0.8311216938 -1.432938e-01 -0.122250275
## [107,] 1.5610256612 -1.696858509 -0.8730078401 -5.104308e-01 0.1997787424
## [108,] -0.4071097706 -0.829382536 0.4755838057 -9.066144e-01 -0.5063643395
## [109,] -0.7923079495 0.211855098 0.3873168693 2.911728e-01 0.2431421610
## [110,] 0.4394042624 -0.143146085 0.6478986249 -4.382477e-01 0.6674788086
## [111,] -1.3605951098 -1.294438132 -0.3910384266 1.524026e+00 1.0268089540
## [112,] -0.2077675797 -0.774232939 -0.4465241529 -9.915694e-01 -0.8925337880
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## [114,] -0.1395523123 0.252258023 -0.0908358239 1.788251e-01 0.2023538008
## [115,] -0.0266271215 -0.354754084 0.1208731485 -2.325724e-01 0.4228974592
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## [117,] 0.3344793778 -0.548391088 0.1682739239 -6.213436e-01 0.3788531035
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## [127,] 1.1445606177 1.206179844 2.5394154082 2.569900e+00 -1.1578571413
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## [143,] 1.1822970760 -1.102813576 -0.2329212936 1.811362e-01 0.6991561006
## [144,] 0.2792713847 -0.219246053 -0.6144700322 -3.884267e-01 0.0757603477
## [145,] -0.6680347984 -0.569898202 -0.2403763798 -4.760995e-01 -1.2843127525
## [146,] 0.6073702301 -0.051606228 0.4308725080 -1.931100e-01 0.3710802193
## [147,] -1.3070997915 -0.141852136 -0.3879377546 4.881239e-01 -0.1512614440
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## [149,] 0.5846157105 -0.919207177 0.0301264945 6.221416e-01 -0.2709861210
## [150,] -0.5792827690 -0.380722395 0.4702257774 -1.745499e-01 0.5278827556
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## [1299,] -0.8008646547 1.465837610 1.4703562955 3.143272e-01 -1.9502580680
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## [1315,] 0.1205102436 0.865782625 0.2477819809 5.392739e-01 -0.3301846745
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## [1339,] -1.0876280630 0.237074169 1.3109209946 4.169789e-01 -0.8984975891
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## [1369,] -0.3712323152 -0.287958508 -1.3141429604 -5.659043e-01 0.6470585164
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## [1379,] 0.0132076290 0.014073435 -0.5149922984 3.614631e-01 0.4081281134
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## [1437,] -0.5032221091 0.092333631 -1.1555999034 -4.883950e-01 1.0636632436
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## [2,] -0.0798995987 -0.721999789 0.2089396747 -0.0008823340 -0.5741233524
## [3,] -0.3991559337 0.301790773 -0.1012158308 0.2842316573 0.0625102249
## [4,] 0.8704235523 -0.310513782 1.1789581163 -0.5848287061 0.4748072981
## [5,] -0.3793264715 0.412202344 -0.0900085272 -0.3007827646 0.1547721323

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## [6,] -0.4665560876 0.326838953 0.2770485514 -0.1036458861 -0.1810796017
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## [8,] 0.6726682147 0.626408389 -0.2547552761 -0.3366045659 -0.0336260244
## [9,] -0.2131005144 -0.272109323 0.0356325422 -0.4008502587 -0.8777752936
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## [1370,] 0.1248289759 -0.5334840462
## [1371,] -0.0860257331 0.1105695856
## [1372,] 0.6625150535 0.0916254427
## [1373,] 0.2378486904 0.2240277787
## [1374,] 0.0152342720 0.6152380748
## [1375,] -0.6982670572 -0.5690874651
## [1376,] -0.0975585473 -0.0292451522
## [1377,] -0.0980176537 -0.3598312742
## [1378,] -0.7544320956 0.0814191824
## [1379,] -0.5230497814 0.1297439419
## [1380,] 0.2422723903 -0.0317528638
## [1381,] 0.1461404645 0.0677502981
## [1382,] -0.0676397401 -0.0074777075
## [1383,] 0.0191514801 -0.1146321526
## [1384,] 0.2716122129 -0.1377356518
## [1385,] 0.5882355312 0.1101710944
## [1386,] 0.2928543764 0.2707291418
## [1387,] -0.6850034333 -0.1124879097
## [1388,] 0.0778981324 0.1440667917
## [1389,] 0.1231415356 -0.1197633002
## [1390,] -0.2597599039 0.2534722739
## [1391,] 0.0777056389 -0.0633952246
## [1392,] -0.9907586035 -0.1351337866
## [1393,] -0.0941185171 0.0556401091
## [1394,] -0.2241115101 0.2325686554
## [1395,] 0.3825293943 -0.4154265984
## [1396,] -0.1472045106 -0.0140325151

```

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## [1397,] 0.1483100220 -0.0130945555
## [1398,] 0.3498720229 0.5154186944
## [1399,] -0.0137454277 -0.0544794176
## [1400,] 0.2456047604 0.3616574211
## [1401,] 0.3053550864 -0.0427957627
## [1402,] -0.6695832432 0.0201559495
## [1403,] 0.2358788506 0.1323101597
## [1404,] 0.1907455532 0.1629896387
## [1405,] 0.1805624584 0.2249669847
## [1406,] 0.1478755648 -0.0821008020
## [1407,] 0.6244155027 0.2891794840
## [1408,] 0.0793842212 0.2520540205
## [1409,] -0.1902537669 -0.1145199018
## [1410,] 0.1279676620 -0.0529742869
## [1411,] -0.4209311735 0.0157998487
## [1412,] -0.2313052998 0.0952846755
## [1413,] -0.3024473696 -0.2697487010
## [1414,] -0.2845943329 -0.2402977923
## [1415,] -0.6413229918 0.2140219044
## [1416,] 0.2745302186 -0.0063611864
## [1417,] -0.3687793291 0.1898884630
## [1418,] -0.0886408780 -0.1555023623
## [1419,] -0.0517243071 0.1515804765
## [1420,] 0.2721599090 0.1762681887
## [1421,] -0.0163034653 -0.0539635321
## [1422,] 0.1975592866 -0.1974353803
## [1423,] 0.2501208761 -0.1192376594
## [1424,] -0.2355085613 -0.1387279806
## [1425,] 0.0536498849 0.2052621013
## [1426,] -0.0732038042 0.1946324884
## [1427,] 0.1561759547 -0.1743765525
## [1428,] 0.0879015981 -0.0203889653
## [1429,] -0.0777457995 -0.0562567611
## [1430,] -0.5493719266 0.3007554070
## [1431,] -0.0800627940 -0.3946443948
## [1432,] -0.0535311775 -0.0312107578
## [1433,] 0.2282360256 -0.4542719786
## [1434,] -0.0139051691 0.2134338388
## [1435,] -0.0173298602 -0.3638752586
## [1436,] 0.5307753318 -0.0093155020
## [1437,] -0.1560599413 -0.0686728449
## [1438,] -0.1077511470 -0.0044962983
## [1439,] -0.0664501634 0.0165740291
## [1440,] 0.0712025944 0.4296497271
## [1441,] -0.5431728903 0.1789835363
## [1442,] 0.3642996785 -0.1315901152
## [1443,] 0.2945652926 -0.3413296664
## [1444,] 0.7401570336 0.0475795450
## [1445,] -0.0851783590 -0.0845402340
## [1446,] 0.5711753772 0.1689668048
## [1447,] 0.0589118049 -0.1671445270
## [1448,] -0.6022426014 0.0285642299
## [1449,] -0.3137770077 -0.4516254633
## [1450,] 0.1438186352 0.0206128648

```

```
## [1451,] 0.5972247282 0.3100283744
## [1452,] -0.0069671852 0.0456974198
## [1453,] 0.4354886889 -0.0925366374
## [1454,] 0.5347881353 -0.0652120290
## [1455,] 0.6972160728 0.1251524239
## [1456,] -0.1854020040 -0.0563813468
## [1457,] 0.5036191669 0.0235284626
## [1458,] -0.8670638721 0.0274666420
## [1459,] 0.1214007772 -0.0881873951
## [1460,] -0.1120906135 0.3237516155
## [1461,] 0.0375711020 -0.2464019996
## [1462,] -0.3604776751 -0.1066869234
## [1463,] 0.3316270313 0.3599024309
## [1464,] 0.0102612699 -0.5220679298
## [1465,] -0.0424544799 -0.1567985148
## [1466,] -0.6077012274 0.4879003716
## [1467,] 0.3016268145 0.0339476388
## [1468,] 0.3152679616 0.0887162021
## [1469,] -0.3306963289 0.0395568720
## [1470,] 0.1983493321 0.2895619834
```

*# Identifying the scores by their attrition*

```
attr_pca <- cbind(data.frame(emp_churn$Attrition),emp_pca$x)
attr_pca
```

##	emp_churn.Attrition	PC1	PC2	PC3	PC4
## 1	2	0.68265206	-0.5675131892	-2.4216126832	2.1197121218
## 2	1	-0.62933035	-0.9935130164	2.9704488581	1.0646612630
## 3	2	2.72139775	0.7103771767	-0.9571217534	1.6362372253
## 4	1	0.80984219	-0.5245919101	-1.0470091525	-0.4635443879
## 5	1	1.77337894	1.2891174351	-0.5977551757	-0.3529640641
## 6	1	0.56134967	-1.0400064602	-0.0860592754	-0.7755799326
## 7	1	1.11223345	2.8778108453	2.7045559561	0.9180993811
## 8	1	2.71587323	0.8373633597	3.6508287665	0.0159893635
## 9	1	-1.06292043	-1.6620676270	2.4233364753	1.7999011613
## 10	1	-1.33932642	1.3320032924	0.5167025649	-1.3677262467
## 11	1	1.39759948	0.3969996049	0.1342861571	-1.4005748523
## 12	1	0.18028064	-1.3374153663	-0.8523949831	0.0226752332
## 13	1	1.45422357	-0.2457986124	0.9172113241	-1.2013751774
## 14	1	1.92132547	1.0439235860	0.2738484494	-2.0921760297
## 15	2	2.21621200	-0.5600104892	-0.9213550672	1.3504669581
## 16	1	-2.12418342	-0.1349850280	-0.0461802424	-1.9792316873
## 17	1	1.36356869	0.4314335659	0.0220692786	-2.2836374794
## 18	1	2.89738124	1.4233665974	0.8765050354	-2.4910466292
## 19	1	-4.88731810	-0.2264848857	-0.8183666545	1.2852088521
## 20	1	1.59029424	0.0317490855	-1.6371519967	0.6581622357
## 21	1	1.52852172	0.0540930466	1.2000464282	-1.6155385132
## 22	2	1.54620339	-1.3722094971	1.3183803316	3.4065290449
## 23	1	-1.89716484	-1.3977158687	-1.3614474932	0.2092231901
## 24	1	3.43126545	-0.8547599008	-0.7257885572	-0.0832535291
## 25	2	2.04534309	-1.0001156992	-1.5761534646	0.6027334428
## 26	1	-5.26404384	1.5297699220	-0.8195348741	-0.5136966679
## 27	2	0.79354983	-2.9789490399	2.3308496900	2.1814853104
## 28	1	-0.55472184	-0.8411207244	-1.3612884962	-0.6910911561

## 29	1	-4.32772956	-0.3788135370	0.2201841267	-0.7568649756
## 30	1	-2.16521932	1.4060516433	-2.6361394164	2.7128577573
## 31	1	2.21939706	0.8744153864	-1.2165371611	0.3090809431
## 32	1	0.32817902	1.2779185268	-0.7335989569	0.2051461326
## 33	1	1.06905745	-1.1165524334	-0.3784886628	-0.4457652459
## 34	2	1.59135068	-0.2999894930	-1.4512077094	0.3698789738
## 35	2	2.84420297	-0.3501564180	-0.1648943498	0.0824105549
## 36	1	1.00618788	1.0612280744	-0.0821675260	-2.1503235444
## 37	2	2.03364941	-1.1820500014	-1.3754000250	0.9704450835
## 38	1	2.02973392	-1.2103954303	-1.0308594127	-0.4799176890
## 39	1	1.84611815	1.7322912487	-1.0972629261	0.9423633016
## 40	1	0.65277811	-0.3524916366	0.4792049260	-0.7105780917
## 41	1	2.56329096	1.2764767277	0.0160299872	-1.6854475644
## 42	1	2.49283708	1.3261605147	-0.1412814372	-1.4215689723
## 43	2	3.11855226	-0.5252148559	-0.8544753259	0.8919170199
## 44	1	-0.64398131	-2.1486733835	-0.8652737523	0.2054566607
## 45	1	-0.53858143	-1.8751180328	2.9237057077	1.3853051016
## 46	2	-5.94937171	-1.9758427871	-1.1821615312	0.2896305702
## 47	1	-0.56270495	-2.9595008797	2.0330495471	1.2744448742
## 48	1	2.21731842	0.2504287174	2.2886840410	1.9795676055
## 49	1	-0.70630152	-1.4124993917	1.4295275225	2.6142761908
## 50	1	2.57981187	0.5609617539	0.7490493299	-0.1681596566
## 51	2	0.41595271	2.1697433454	-2.1289690337	3.3603025258
## 52	2	2.40628521	-0.5794867174	-1.0462441478	0.6679936461
## 53	1	0.22454934	0.7198227713	1.8466447074	1.6094329071
## 54	1	0.17561877	1.3601482857	-0.1619276271	-0.2522253526
## 55	1	1.83396290	0.0925978010	-0.3212248542	1.1642389935
## 56	1	-3.45617743	-2.4514869962	-0.7362157883	-0.2471118915
## 57	1	-1.19859648	-1.3945514651	2.3711938538	1.0469966266
## 58	1	1.45797649	0.8660070044	-0.0856852907	-0.0641227624
## 59	1	-0.38621693	0.4442807057	3.3149379024	0.1495026053
## 60	1	-0.08052265	0.3860321759	0.9985169311	-1.0119849474
## 61	1	-0.91183251	-1.6996259904	3.1187887713	0.4293383857
## 62	1	-1.00645845	-1.0327935513	-0.6737346499	-0.3418318376
## 63	1	-5.89820000	0.6336367976	-1.0067234114	0.1587871601
## 64	1	-4.84001299	-1.2667406256	-1.6293190528	0.7053459732
## 65	1	-3.95447542	0.0366987881	1.2870954745	-3.3784120670
## 66	1	-1.75977843	3.3190300964	-0.3585716154	-0.1736961129
## 67	1	0.66784501	-0.2899526587	-0.7259790401	0.3890177011
## 68	1	-0.31787214	2.4046747490	-0.1681522721	0.5831106297
## 69	1	1.79410934	0.6617451873	-0.4610360395	-0.6414286149
## 70	2	2.85288657	-0.1439594746	-0.2602107030	0.7108799841
## 71	1	-0.42853322	0.3226866464	-2.3051269857	2.0865273609
## 72	1	1.55464832	-0.6391913938	3.1425976742	0.3493247239
## 73	1	2.62998022	-0.3809465513	-0.3917827292	0.5159494123
## 74	1	-0.18528687	-0.3009161541	0.7180957022	-1.3739332645
## 75	1	2.14526592	1.0301129261	-0.8503763339	0.1666911509
## 76	1	-0.44681362	-1.5854540245	2.4891659040	1.9205835544
## 77	1	-1.59468208	-2.9790487292	-0.9993549472	-0.0229695922
## 78	1	-0.09359063	1.7373207907	-1.6019809734	1.6891437162
## 79	1	-0.45162008	0.4793776956	-1.5793496244	1.6913163768
## 80	1	0.20723025	3.2706703563	3.0481726657	1.6820388145
## 81	1	0.18739766	0.3189073386	0.0429164794	-1.4892600421
## 82	1	1.43187138	-1.2604081928	0.0091369519	0.6353942953

## 83	1	-0.54430518	1.1846002815	-1.5677644789	1.2403283943
## 84	1	-1.82719859	0.5331242810	0.2199258251	-1.9331020266
## 85	1	1.22334004	0.1489419565	-0.1911014520	-0.1569922718
## 86	1	-1.78610096	1.4966282733	-1.7158421687	1.9185645977
## 87	1	3.02612493	-0.3762695786	-0.7105334440	-1.4465881340
## 88	1	0.83719743	1.5291766552	3.2524971204	0.9307841525
## 89	1	-1.58258275	-0.4514302957	2.1148673899	-2.3938472995
## 90	2	-1.10719767	-2.4991948063	-1.2611390899	1.2728664349
## 91	1	-4.32011536	-0.3086814717	3.0078819535	1.0383346153
## 92	1	-0.12495958	-1.4236433240	1.5565249758	2.7690352566
## 93	1	-0.56122586	-0.8560882376	-0.0392293343	-2.6759703580
## 94	1	-2.86013351	0.3741646748	-0.1386064635	-0.5680742482
## 95	1	-0.78337248	-2.3455322573	-0.6175596829	0.3016656687
## 96	1	-1.23221263	2.6068637153	-1.4567907497	1.2610092784
## 97	1	1.88513909	-1.6130657115	2.2716608169	0.8937585815
## 98	1	1.20551513	-1.8911336863	-0.4947304214	-0.4370997666
## 99	1	-5.87376430	-1.6560857888	-1.7781182007	1.1381583194
## 100	1	0.43903852	1.4618062186	-0.4285164952	-0.1636431998
## 101	2	1.78798711	1.6565132222	2.6547694739	2.0849453127
## 102	1	2.86498781	-0.2647975085	-1.0926273071	0.2140364154
## 103	2	3.26302471	-1.0077084933	-0.2150368114	1.2560760573
## 104	1	-1.87903848	-2.4007634386	-0.4837178712	-0.2883375214
## 105	1	0.90442297	2.7991893362	0.1914908606	-0.3950474521
## 106	1	-3.30556725	3.9622097959	1.7554767720	3.9569112998
## 107	1	-3.20537538	1.3804957401	-0.3768904725	2.3290978944
## 108	2	1.49362748	-2.2696802677	-2.4376723743	1.2942812670
## 109	1	2.40732810	-0.0146134278	-0.3008206932	-1.8615680390
## 110	1	3.01822613	-0.3780833096	-0.4356287986	0.4018241053
## 111	1	-3.93632387	-0.9198232417	2.2154017565	2.3505732626
## 112	2	0.27955086	-1.7432863031	2.4566980829	3.0686984432
## 113	1	-2.59853576	1.4845323026	-1.2007906806	1.7136069115
## 114	1	1.88715389	-0.0284821683	0.2033234347	-1.5950117619
## 115	1	1.23328795	1.9219698136	-0.4549850539	0.1929570145
## 116	1	0.13260695	-0.7558508904	-1.6795387629	0.6601208611
## 117	1	-2.20115072	-1.1727350379	-0.9649143217	-0.1128977068
## 118	1	-1.07486556	-1.6470571193	-0.4690744061	-1.0896583430
## 119	1	2.04471604	1.4592462485	3.2803184940	0.9468589393
## 120	1	-5.18916239	-1.0776854446	-0.3783626085	-1.3461602649
## 121	1	0.16557664	-0.4529897301	4.7581779976	-0.8717541540
## 122	1	0.12095535	-1.6585776553	-0.1712992614	-1.4601379446
## 123	2	0.21583793	1.6042591793	0.1720658063	0.6568918955
## 124	1	-7.32019899	-1.6896294305	-0.8991444041	0.3499832051
## 125	2	-0.47555419	-2.2816774026	-0.7390344555	1.3432497143
## 126	1	1.45765277	-1.3010142191	0.3393994464	0.0275869459
## 127	2	-6.62643848	-0.6811369043	-0.3986846850	-0.4723851109
## 128	2	3.88917115	-2.4167469021	-0.9079722712	1.5768721061
## 129	1	2.58296967	0.0336417838	0.2340316061	-1.4416296434
## 130	1	-2.72092067	-0.9142757729	-0.0922816583	-0.6066068635
## 131	1	0.71491305	0.4309698420	-1.3082687173	0.9871291894
## 132	1	-0.35761010	0.1364179720	-2.2902747861	1.5335883224
## 133	2	1.67040223	-1.0570970608	-1.8593827698	0.7879352358
## 134	1	-1.02507776	-0.1669800951	-0.7326944455	-0.8419507633
## 135	1	0.29683436	-0.5046158095	4.2899581468	-0.2446693299
## 136	1	1.14936899	1.8367384824	2.7292858520	0.4455336894

## 137	2	-0.46889982	0.4954789875	-1.3750657046	2.7348491105
## 138	1	-2.35598605	-1.4886923980	-0.6380405261	-0.6152209881
## 139	1	1.20880590	-1.1411591501	-0.4089972820	0.8470105259
## 140	1	-0.93654377	0.0152818447	1.3078354224	-0.3465734176
## 141	2	1.30410440	-0.4967971149	2.0255559700	3.0943376137
## 142	1	0.85132931	0.1847151470	-0.7604932609	0.5569805658
## 143	1	0.38932954	-0.4403709392	1.2045622984	2.8488986377
## 144	1	1.62838674	-1.1772088983	-0.6655931770	0.3020288634
## 145	1	-0.02971419	-1.0686409933	0.8646128188	-2.2992180824
## 146	1	1.47134782	0.8515189621	-0.3764533618	-1.0030398883
## 147	1	1.86289984	-0.7590515376	-0.3832774987	-0.2830009284
## 148	1	-3.20006787	1.5539248285	-0.2084152151	-0.5083149065
## 149	1	1.22060004	1.0145592653	2.7463726621	0.9592618928
## 150	1	3.27983831	-0.3309605119	-0.4831120270	-0.0170936906
## 151	1	-2.43440157	-0.8240456278	0.2818400276	-2.2541551635
## 152	1	-0.92180662	-0.5388648652	-0.5807450985	-1.3551810592
## 153	1	-0.57657855	-1.1400815490	1.8326171710	1.2724441762
## 154	1	-2.50430508	0.8629282699	1.0953447601	-0.7765510875
## 155	1	-1.01470570	-2.3302238872	-1.1596012044	0.3991246542
## 156	1	-0.05466227	-0.9221391954	0.3568806359	-1.8063282185
## 157	1	0.92835855	1.3828240295	-0.3703461446	1.3095919888
## 158	1	1.41984467	1.3053301171	1.8717976273	2.2915890662
## 159	1	-2.64402312	-0.6990433312	-1.1929573391	-0.4604458093
## 160	1	1.47386446	-0.3469544704	-0.4207646700	0.2872756035
## 161	1	2.57751174	-0.8841227634	3.9337305135	-0.4799354414
## 162	1	1.87466481	0.9515417394	0.7690615485	-0.7986981517
## 163	1	1.99982226	-0.1411676914	-0.4755747584	-1.2508526723
## 164	1	-0.98541056	2.6436087990	0.3920823927	0.1074742149
## 165	1	2.62953608	0.5415646294	0.2370026985	-1.0740915680
## 166	1	-3.02058102	1.2038457194	-1.2475879520	2.0519283615
## 167	1	-0.38475847	0.0690589996	0.1961661149	-1.7365799463
## 168	1	-1.52699458	-1.4220836231	-0.9125028669	-0.8814266157
## 169	1	-0.29699371	-1.5813578414	1.3775877550	3.0240897281
## 170	1	1.16373643	-1.0844985328	1.8365083202	1.9356937222
## 171	1	2.01309245	-0.2934083135	0.0644159443	-0.7033290487
## 172	2	3.84463730	-3.3486192901	1.3137478616	2.2034231193
## 173	1	0.12685597	-0.4070806099	-0.5902654438	-0.2751772739
## 174	1	-1.38604032	-0.4909269437	0.7319216854	-3.3825029452
## 175	1	0.32753585	0.2917572549	-1.1421362428	-0.7695418214
## 176	1	0.11141389	1.8207219969	0.0585019059	0.4808663159
## 177	1	2.24811663	-0.7940544072	-0.6476949307	0.0738951371
## 178	2	3.47507142	-1.3085324589	2.2432183648	2.3644994282
## 179	1	-4.93721620	-1.9066477971	3.8738072152	-0.8594511249
## 180	1	1.98344440	0.0825540718	-0.6449447038	-0.0894773058
## 181	1	1.78187320	0.3592561507	2.5361710877	1.9143220790
## 182	1	1.77576018	-0.5557030481	-0.6115176774	0.3973915970
## 183	2	2.11504649	-2.2874028937	1.2120431105	3.0520907730
## 184	1	1.26756581	1.3886871440	0.0065166833	-0.2204265781
## 185	1	0.43434627	1.8396930405	-0.3451544851	-1.6886405593
## 186	1	0.51137406	-0.7599953301	-0.1474676003	-1.6398540453
## 187	1	-4.78435545	-0.5205606780	-0.1317143790	-0.7289638399
## 188	1	-6.97407207	0.1862455759	-1.8357580743	1.1395558033
## 189	1	-0.89395220	-1.0972222977	0.5435639363	-0.5474257169
## 190	1	-2.00657719	1.4204776269	-0.5486028444	1.8409001330



## 191	1	-7.93379454	-1.1367987043	0.1140688045	-1.0152021496
## 192	1	1.34534963	-1.1483259610	-0.3477779628	0.0411773832
## 193	2	1.88636746	0.2504091866	-1.0432363056	1.3130878588
## 194	1	0.86945854	1.5369590643	0.7799068320	-2.6254623445
## 195	1	-4.69548566	0.2286932891	2.8282971897	2.0744502660
## 196	1	0.31296387	-0.6146480260	-0.3023413760	-1.1877399373
## 197	1	0.74717044	0.3170807016	-1.4817768073	0.7247139996
## 198	1	0.51574153	0.7876890707	0.6519303493	-0.9264010210
## 199	1	0.94387855	2.5269252893	-1.0246867804	1.1166505784
## 200	1	-0.25485847	-0.0164649494	0.9888394695	-0.7615550617
## 201	1	1.74579686	0.4702911190	0.5389813140	0.0627280468
## 202	1	-0.77063466	1.1116633007	0.8839893907	-1.5282928941
## 203	1	1.47833841	0.3005183984	0.4634987817	-1.1487613545
## 204	1	-0.23165524	1.4007552861	-0.0669227414	0.0659641591
## 205	2	1.30217841	1.7998989640	-0.0139299397	2.1739146183
## 206	2	-0.40891794	-1.8302825101	2.4308004896	0.8033979338
## 207	1	2.08127184	0.2250954423	0.5646624239	-1.5909250592
## 208	1	1.13886957	-0.9484274967	-0.0664675829	-0.3377470933
## 209	1	0.79982094	2.7080359202	-0.1932075229	0.3086004157
## 210	1	-0.83627141	3.4490047182	-0.0751505671	0.2499005560
## 211	2	-2.10173005	-2.7056240563	-1.7725586046	0.1643944078
## 212	1	-1.26687033	-2.0718063146	2.7268313205	1.4299089095
## 213	1	-0.01694265	-1.9338645156	-1.0239409746	0.1344439177
## 214	1	-2.69338452	1.3284595478	0.1000999207	-0.2119697609
## 215	2	1.94467312	-0.6935310121	-1.9775989578	0.8250692298
## 216	1	0.04665021	0.7659178589	-1.2519561660	2.5238182465
## 217	2	1.22887047	-1.4379633379	-1.7935828414	2.0983157455
## 218	2	1.94922048	-1.4086222987	-1.0527551406	0.5019187870
## 219	1	-3.64139158	-1.9649849197	-1.6693142785	0.7275922376
## 220	1	-0.41600315	0.2889059746	-1.2405140918	0.2202570039
## 221	1	-1.58014333	-0.0437903985	-0.2151956279	0.4024222546
## 222	1	1.68020749	-0.0484905885	1.7256102821	2.2434442728
## 223	1	-1.43953050	0.7222586234	0.6558661495	-2.1364462342
## 224	1	-3.19717437	-1.5704406848	-0.1189539398	-2.6480921520
## 225	1	0.81807195	-0.0507678037	-0.1664031754	-1.2211513986
## 226	1	1.61355420	1.1711472315	0.0062069926	0.3010294066
## 227	1	-0.68051670	-1.3594527343	0.4211788688	-1.2841076255
## 228	1	-0.71445087	-1.7917017871	-0.4329436400	-1.1965000308
## 229	1	-0.88278882	-2.0320913743	-1.0534446447	0.1511390293
## 230	2	2.73012183	-1.4400199943	-1.0934971441	0.6939101170
## 231	1	1.06000859	1.4170585074	-0.5680061308	1.3405566964
## 232	1	-6.56414201	-1.9444541095	-0.5720485489	-1.3463365356
## 233	1	0.85664034	2.8423058310	0.1649297002	1.2474935626
## 234	1	-3.41664271	2.4943246344	-1.8686367690	0.7709584710
## 235	2	1.51506531	0.6390650632	-0.5811901073	0.1865249019
## 236	1	-4.09094691	-0.4970448150	2.2224231069	1.7146752424
## 237	2	0.30234593	-0.8017735468	2.0909155652	2.0150635952
## 238	1	-7.38211635	-2.1530890228	-0.5697166696	1.5202254648
## 239	1	1.62023268	-0.9029581740	-1.1496487101	-1.0416799936
## 240	2	2.23054863	-0.5648916966	-0.9726098653	1.0380498113
## 241	1	1.12403666	3.1364028596	0.4907433411	-1.5722324734
## 242	1	1.41873104	-1.1931486991	0.2068882502	-0.0397290245
## 243	1	1.15032644	1.9441513764	0.5261318072	-0.8306967008
## 244	1	-0.55892839	-0.3864788739	1.4022456825	-2.1761852707

## 245	1	-3.84864594	1.1034586154	-1.2230614724	-0.1410556132
## 246	1	-0.15036706	2.4049039994	-0.7067442898	-0.2575986087
## 247	1	2.02046790	0.2075650271	-0.4644730543	-0.5587214429
## 248	1	-1.56575405	0.0020419865	-0.3756551488	-0.7751275071
## 249	1	1.26157272	0.6271376685	-0.4146411214	-0.1363715809
## 250	1	0.54700758	1.8753539493	0.1759551731	0.3045712565
## 251	2	0.51756278	2.3614053144	-0.9779359788	-0.0697796370
## 252	1	-3.33020335	-1.5687944089	3.0710948611	1.9845835054
## 253	1	1.35135673	-1.4651455527	0.4099825298	0.3693285373
## 254	1	0.84205847	0.4921680942	-1.5189136646	1.3023035792
## 255	1	1.08384682	0.0817602588	-0.4285909125	-1.0466838329
## 256	1	1.37469197	0.4048631786	-0.2077441131	-1.5084559511
## 257	1	-0.69259813	-0.3606897461	-0.0881012378	-2.0880207318
## 258	1	-4.29835651	0.0351328703	0.7742723187	-0.7712488613
## 259	1	2.13194999	1.0839763333	-1.1687170811	0.1599710004
## 260	2	1.72458057	-1.4512426213	-0.8006964216	0.0381287657
## 261	1	1.83274141	0.4075092945	2.6146256505	0.9866954009
## 262	1	-0.82724340	-1.3080451167	0.2028127326	-0.2783940181
## 263	1	1.23833440	-0.1330285439	-1.0124717322	0.2744965268
## 264	1	-3.66493393	0.0927854900	-1.4996709568	0.7659054944
## 265	2	2.86265423	0.2372204554	-1.4730562543	0.8881468735
## 266	1	1.72939986	0.2664384466	0.2497186111	-0.1105669839
## 267	1	-0.26387994	-0.4076846222	3.4544836305	0.3287021626
## 268	1	0.81234383	1.3116464342	0.7075476781	-2.6422707054
## 269	1	-3.69824732	-0.0425182056	0.0803575308	-0.3233036258
## 270	1	-2.34935966	-1.5363799265	0.3357849217	-2.6840051851
## 271	1	-7.11838205	-0.8931910961	-1.1214599957	0.9203962874
## 272	2	-2.31105584	-0.4250274823	-0.4475032662	-0.1513255426
## 273	1	1.91619864	-0.4427505538	3.1575001891	0.3268966708
## 274	1	0.77299295	-0.0784822750	-1.0712343646	-0.1557621882
## 275	1	2.72067550	-1.1862179202	-0.0437820020	-0.0719930933
## 276	1	-0.53466467	1.6299279943	0.6611940193	-0.2648616469
## 277	1	-1.32003484	1.5782995340	0.6551932877	-0.3361897156
## 278	1	-0.14354112	-1.4910733787	2.6680574114	0.8653861164
## 279	1	0.65026946	0.0456533116	3.0532917329	-0.2521587023
## 280	1	-3.47135997	2.2960095868	-0.1475518940	-0.4133730693
## 281	1	-2.23681846	2.6422913279	-0.4588286353	0.3605081153
## 282	1	-3.08903338	-3.4482574612	3.0416399338	0.7971354009
## 283	1	0.03551692	-2.8179501544	-0.0769622862	0.1662883830
## 284	1	-1.07221376	0.2642103868	0.6783669801	0.1115186914
## 285	1	1.03005857	0.2227708675	0.0462375851	-0.9251736469
## 286	1	-1.40255129	-2.1577593561	-0.6120422568	-0.8288686251
## 287	2	1.46473486	1.7708829207	2.6185335325	2.2223619298
## 288	1	0.45783246	3.1586239592	0.0322674357	-0.1507594178
## 289	2	2.22665879	0.8302736005	-0.2080073841	-0.6581300120
## 290	1	1.97793791	-1.2934522329	2.1539462612	1.4804308782
## 291	1	-2.35902866	2.3142460751	-2.8957897324	3.2344102011
## 292	1	-0.05799596	-0.8183976433	-1.5293480019	0.5056551039
## 293	1	1.96225077	-0.6440154814	-0.8115168437	-1.9260888488
## 294	2	0.20124387	-2.8446044848	-1.7670213833	0.6506906695
## 295	1	1.74713944	0.6475860081	0.0987773314	-1.9416085310
## 296	1	-3.46271079	-0.4426230668	-1.1065501813	0.3555698349
## 297	2	3.60066252	-0.6178551094	-1.1018354199	0.6913089372
## 298	1	-1.87917482	-1.4012319617	0.1895193960	-1.8453051383

## 299	1	2.04509425	2.0946360565	0.8627049283	-0.5483592755
## 300	1	0.18094539	2.2668856971	0.2342745449	0.2577910356
## 301	1	-3.40202089	-0.8202619658	-0.5451225030	1.4104711553
## 302	1	3.45939325	-1.9245373505	-1.4969228745	0.0502617990
## 303	1	0.53645211	-0.3255545811	0.8242431483	-0.0002055270
## 304	1	-0.75116132	-1.3137437985	-0.9932978192	-1.3894477762
## 305	1	-2.78886585	0.9998833173	1.8475287255	-2.9268200334
## 306	1	-0.85883705	0.7395651990	0.4236377526	-0.4294043148
## 307	1	-1.06502446	-1.7076704123	-0.3859104790	-1.2190205394
## 308	1	-1.29563756	0.6155719476	-0.0150756455	0.7281124804
## 309	1	-0.39864241	2.1821359536	-0.1919854173	-0.1109373911
## 310	1	1.60456211	-0.1135619484	-0.6523004762	-1.1401109476
## 311	1	1.14501458	1.8490939164	-0.5827393338	0.4276753250
## 312	1	-4.01868464	-0.3050604705	1.5744397796	-1.6166798506
## 313	1	1.92602919	0.1075251076	0.7226081352	-0.9212623414
## 314	1	-2.26320456	0.8117238724	-0.5533927055	-1.0404851349
## 315	1	-4.57222209	-1.2372668717	-0.3953798310	-0.4798255775
## 316	1	0.09040925	-1.3011484940	0.7287393363	0.1898770361
## 317	1	-2.17304942	2.0965661611	-1.8807142639	2.3093508330
## 318	2	-0.53611236	-0.5529684723	-0.7059781716	0.7686993022
## 319	1	2.04744461	-0.7271763889	-1.1601434045	0.2319589206
## 320	1	-2.06177094	-3.3326630541	-1.3036819541	-0.9582004655
## 321	1	1.31412561	-1.5912860127	-1.5728274393	-0.1865551945
## 322	1	-0.60512748	0.3158011183	-0.2061557170	-2.5674386161
## 323	1	-0.06125825	-0.0945090601	-0.6373236816	1.0343874714
## 324	2	2.12928739	-0.2431433997	-1.3572755943	1.0554742762
## 325	1	-0.60326863	-0.6786657136	0.2706544069	-2.0335699126
## 326	1	-1.84846210	-1.8591299866	3.6666631795	0.5270848241
## 327	1	-4.72608796	-0.6018400955	0.0888997121	-0.3725394518
## 328	2	1.75845731	-0.3797823806	-1.1759462965	1.9848196129
## 329	1	0.76716646	-1.7249737115	-1.0771121208	0.4088056381
## 330	1	-2.16639967	2.7999715458	-1.7375022483	1.0893437008
## 331	1	-0.08186411	1.1536715526	-0.1004620484	-1.4176804278
## 332	1	1.02991886	-1.4210558304	-0.8233946408	-0.7797688880
## 333	1	-0.30095594	0.6513801581	-1.5618699990	1.3285587871
## 334	1	0.28757322	3.2080505627	-0.2664676414	1.2904706150
## 335	1	-1.83662127	0.3605831371	0.0582643004	-1.2296902054
## 336	1	0.90680521	-0.2160414513	2.5680071668	0.8336108657
## 337	2	1.08195993	-1.1150311745	-0.9174344842	-0.2999927732
## 338	1	1.76300955	-0.5841598526	0.0476583066	0.4875197052
## 339	1	-0.22580867	-0.5018325793	0.0248687458	-2.4753517107
## 340	1	0.05138795	-1.5953562270	0.2900293392	-0.7517910865
## 341	1	0.49058341	2.1816659120	0.4327304540	-0.9640224762
## 342	1	-1.96809880	-0.4883626585	0.2988524372	-1.4708416905
## 343	1	-1.59324991	-1.5146502121	-0.7240633636	0.2980699809
## 344	1	-0.05738291	-1.3716389575	-0.0200612189	-1.8416532009
## 345	1	-1.98766805	-1.2348175185	-0.8182328244	-0.3427264334
## 346	1	2.25372380	0.5959740644	0.4929182351	-2.5777570296
## 347	1	0.55686176	0.5926846273	-1.1139355382	1.3845230600
## 348	1	2.05778735	-0.5404669058	-0.5709675928	1.5046199746
## 349	1	-0.61148292	1.2755051990	-1.5387961421	2.3883152934
## 350	1	1.51161162	-0.8289008255	-0.4156883761	-0.9066421171
## 351	1	1.86101214	1.6992133644	0.1085528321	-1.7849055139
## 352	1	1.13030972	0.3346479707	0.0095249458	-1.3892548668

## 353	1	0.14040558	1.0697646717	1.8830212761	2.6131084762
## 354	1	-1.03095501	0.6430311560	0.1518329626	-1.9428550390
## 355	1	1.44715991	-0.3230577536	-1.0940231467	-0.3128580718
## 356	1	-0.39016140	-2.0483973419	0.1267375080	-1.1408221807
## 357	1	1.02827494	1.1396910175	2.3528878285	2.9443102123
## 358	2	3.01235028	-2.8698708129	-1.9600891783	0.4678910894
## 359	1	1.51099442	-0.4712931545	-1.5089105813	1.2847331286
## 360	1	-2.29888813	-1.4618878750	-0.9181176547	-0.8662473992
## 361	1	-0.24967635	2.2195871489	-1.0318147224	0.2676486604
## 362	1	-0.02524210	0.5903967662	-0.2304569963	-0.8196949803
## 363	1	2.56199446	-2.9323697158	2.6105597589	1.5501144180
## 364	2	3.05154116	-1.8873692228	-2.0886390474	1.3649890536
## 365	1	0.55126303	1.2048910453	2.4073336573	1.3110712780
## 366	1	1.21837980	1.0687115330	-0.6988749247	0.6432830850
## 367	2	-0.70622904	-2.9785113461	-0.7136856306	1.0057834809
## 368	1	-1.05177994	2.0240257832	-0.8499300439	1.6957089043
## 369	2	1.08047220	-0.7656594839	-1.0521445332	-0.4687350285
## 370	1	2.07143595	-1.1512105284	-0.6095096408	0.5143365198
## 371	2	3.35472094	-1.7802596235	-1.7453279516	1.3609911596
## 372	1	1.90735696	0.4151495495	-0.6952982734	1.0449930931
## 373	1	1.14941780	2.1097312280	-0.3063970988	2.1793281243
## 374	1	1.63181875	0.9841355341	0.0679586058	-2.2448634515
## 375	1	0.49840357	-1.8541404514	-0.9173470368	0.5750093060
## 376	1	-1.00641054	2.0707281375	2.0135596640	4.2797489062
## 377	1	-0.98462649	0.0402894348	-1.2104115046	-0.3316050912
## 378	1	1.59479197	0.6049347111	-0.5883754469	-0.5929576841
## 379	2	1.23673912	-0.7082066391	-1.6643614631	1.6104720569
## 380	1	-2.54806973	1.8599153910	-1.8203688548	2.4007331345
## 381	1	1.31636893	-0.2418107470	-0.9159379261	-1.3454378966
## 382	1	3.02092097	-1.1515709483	-0.0661916485	-0.5221082487
## 383	2	2.13982484	-2.4291292657	2.2398159859	1.6460832156
## 384	1	2.45017258	-0.4083857132	-0.5450323894	-0.6741318940
## 385	1	-1.10382306	-1.4204346310	-0.4391128775	-1.4204702670
## 386	2	3.06182751	-0.4908798178	1.5756758966	3.4207041973
## 387	1	-2.98447318	-0.9501023132	0.6133618888	-2.7429605431
## 388	1	0.28624243	0.8454751841	-0.9918056624	-1.1480620934
## 389	1	0.98801978	1.5936079065	0.3383569969	-0.6996246142
## 390	1	1.05495518	1.0622613555	-1.6040911489	1.3699893478
## 391	1	-4.47835583	-0.0655267679	-0.2566755208	-1.4964547971
## 392	1	0.88121600	1.7607133601	2.3777422831	2.3482599006
## 393	1	-2.47385937	2.5920838965	-1.6462836929	0.9995242107
## 394	1	0.90374942	0.6641369612	-0.7627421092	0.3836266827
## 395	1	-1.38951024	-1.5894377969	0.1343796674	-2.0476115128
## 396	1	1.27155270	1.2422331003	2.6556841799	1.3375728895
## 397	1	0.54733121	2.1562795225	-0.2565826569	-0.0783066569
## 398	1	1.40777069	-1.9844432362	-1.6670371119	0.1864612678
## 399	1	-2.18106504	-0.9579729487	0.6165334310	-1.3298319369
## 400	1	1.71652849	0.3897357907	-0.2504313047	-1.2985338937
## 401	1	-3.85129875	0.7141339665	0.0562128510	-0.8631421760
## 402	1	-4.32025560	2.1777740244	-1.5652741750	0.1937213919
## 403	1	0.65250400	-2.1996735118	-1.6240421343	-0.2733300421
## 404	1	-1.05501852	-0.8250757174	-0.5376803187	-0.3500500313
## 405	1	0.32783801	0.7950741168	0.1768963707	-1.9831889177
## 406	2	2.26661587	0.7492733805	-0.5586840381	-0.2709924691

## 407	1	-1.40356374	0.9459825793	-1.1682815974	1.1807956389
## 408	1	1.53407147	0.6662470082	2.7631071641	0.7784706641
## 409	1	-2.53530382	2.0647563828	-1.2610451901	1.4039238306
## 410	1	0.08749640	0.9573129031	-0.2884369276	-1.0516564694
## 411	1	0.80628163	-0.9029295132	1.6149009679	2.5843936139
## 412	1	-7.08659407	0.3508498055	-1.3829583754	0.6934289531
## 413	1	-1.27892903	0.8797880067	0.2083120270	-1.2345040227
## 414	1	0.13454598	1.3974086313	0.4552629097	-2.3880737819
## 415	2	2.29621919	-2.9570923977	-1.2084403478	0.8851537499
## 416	2	2.51115823	-1.4143744813	-0.4555963849	-0.3135244835
## 417	1	2.59468124	0.6332667674	3.2130334405	0.9740060738
## 418	1	-5.12982413	-1.1250572005	-0.8163293362	-0.1061895106
## 419	1	2.17954589	0.3401468146	3.7937818180	-0.4980589883
## 420	1	1.27064947	0.8510959383	0.5369513346	-0.8904141720
## 421	1	-0.51966891	-0.1111741455	-0.0543424896	0.5150432329
## 422	2	2.19432148	-0.3091399952	-0.8148093080	1.2212041778
## 423	2	3.50637103	-0.2590329073	-0.6901413390	0.3312246868
## 424	1	-1.50474146	-2.2755213294	-0.9361644847	-1.1891693562
## 425	1	-1.80495168	2.6470001541	-1.3794983625	1.2047662656
## 426	1	-6.07770552	-0.6072956213	0.4030465638	-0.6147917449
## 427	1	-0.24515764	-1.6992777785	0.1873539037	-0.8163831643
## 428	1	-5.03252439	-2.0910467091	0.1596340177	0.1834999953
## 429	1	-0.13648474	2.7110387464	0.1815705827	-1.3571268668
## 430	1	-1.71715327	2.5287855828	-1.4994987916	1.8638952712
## 431	1	0.96024421	-0.9624282402	-0.2013359082	0.3471413514
## 432	1	0.38320238	2.3188346042	-1.9855295047	2.0960565170
## 433	1	-0.01378198	0.3644330485	-0.1409521267	-1.7704516782
## 434	1	-0.23303303	0.2666167153	-0.4554976007	1.1471648151
## 435	1	-1.42562966	-0.6258478669	3.7908002726	-0.0365338743
## 436	2	-1.52780944	-0.0005380334	-1.3682039002	0.9510446344
## 437	2	1.54220533	1.3238769201	0.5759568273	-1.4785722383
## 438	1	2.30856702	-2.1820653936	-1.0821248272	-0.0710650193
## 439	1	-0.21457396	1.4958215642	-0.7353312014	0.2045354014
## 440	2	1.05360786	1.3157134216	-0.9714966715	1.1815628997
## 441	2	0.17545113	3.7562264457	0.4829813311	-0.0297194322
## 442	1	1.61437565	1.4785350436	0.5667018291	-0.4456409971
## 443	1	-1.38624207	-2.2442465578	-1.1449917629	0.4055009220
## 444	2	2.69360132	-0.4743359150	-0.2925061588	0.6990076126
## 445	1	-1.45171483	-1.2310481955	-0.7709749387	-0.2812213708
## 446	1	-4.88459558	-0.1707998929	1.5370111620	3.7945535166
## 447	1	-1.02615967	-1.2894388893	-1.2648538068	0.7234339276
## 448	1	-1.57276806	-0.9662500961	-1.5401250065	-0.1649191574
## 449	1	-3.99746103	-0.4545969980	-0.9652966033	1.2546911146
## 450	1	0.65737832	-0.0935032961	-0.0525819897	-1.4737901544
## 451	1	0.58467035	-1.4268667820	-1.4712878737	0.5430712806
## 452	1	-1.70134616	-0.9449790573	2.6968524919	0.5367176749
## 453	1	-0.57142381	-1.5512678034	0.2096713313	-0.6654536231
## 454	2	1.42170747	0.7796620511	0.1475782634	-1.1798013490
## 455	1	1.13692909	1.2389166825	-0.0969367820	-1.7148412399
## 456	1	-1.09661809	1.9937487807	0.0689343215	0.5087377153
## 457	1	-0.15492300	1.3550879746	1.9646405263	1.8875882322
## 458	2	3.76277281	-2.0176561332	-1.5787826398	0.8139857504
## 459	1	-0.05281175	0.9271185259	-0.5609025611	0.2870542055
## 460	1	-0.49920087	-0.5132019966	0.2882738912	0.7445737670

## 461	1	2.03232505	0.5848653909	-0.3461174906	-1.5864081075
## 462	1	1.07425681	-1.6473203649	-1.0897830764	0.7672644085
## 463	1	-0.69317541	-2.1409521460	-1.4468250762	-0.2484531622
## 464	2	3.35820617	-0.8423105355	-0.2208719315	1.6234269549
## 465	1	-0.16742842	0.0677255827	-0.7963702685	1.4351187184
## 466	1	-1.02275924	2.3566497174	-1.0166107907	0.9136002772
## 467	1	-5.45988353	-0.2815128242	-0.2939064643	0.0118021000
## 468	1	-1.41317534	-1.1663448982	-0.5523050465	-1.4470185335
## 469	1	-2.14516063	0.4385894062	-0.0907819381	-2.0156193614
## 470	2	1.40726229	0.0127236341	-1.9413236047	0.9047870249
## 471	1	2.34379867	-1.2630622143	-0.2247681054	-1.9412011958
## 472	1	0.51415269	2.3544949936	0.4038850595	0.7669406350
## 473	1	-0.15329803	1.0147168601	-0.7914411563	-0.1436350912
## 474	1	-5.75168391	0.5194583530	0.2599143023	-0.3621591594
## 475	1	1.44899358	-0.2816402293	-0.1517268339	-2.0953891874
## 476	1	1.04926325	-1.3632932902	2.4603781231	-0.0875993587
## 477	1	2.98203358	0.2559630201	2.9330905518	0.4673907456
## 478	1	-6.03556971	1.0706473542	-0.3071836867	-0.7110626605
## 479	1	1.52637966	-2.1779770693	-1.1857076181	-0.9160125630
## 480	2	1.96365050	-0.3110310026	0.1606916031	-0.1813603152
## 481	2	3.03681540	-1.1467187294	-0.4370444865	0.5332307040
## 482	1	1.23651492	-0.4368483446	-0.4903776056	-0.7554626877
## 483	2	1.56209024	-0.3793223741	-0.6057286014	0.5543954034
## 484	1	1.32276960	0.2330561638	-0.6264468725	0.8857481471
## 485	1	-0.78641214	-0.8322214043	2.8920363838	-0.4234126254
## 486	1	1.64649055	0.2027267204	0.2004368727	-2.3806208770
## 487	1	0.58914802	0.8012086329	-1.8305250270	0.2165872691
## 488	1	3.02575898	-0.5196208355	-1.1456196666	0.3208302669
## 489	1	0.05065598	1.5082905719	0.2092971982	-1.3145653267
## 490	1	-0.95743475	2.7055336633	-0.9297508860	0.8586158415
## 491	1	2.36132551	0.0169068761	-0.7265640637	1.2713852206
## 492	1	-1.09836752	1.0239017844	0.1208952678	-1.3487662933
## 493	1	-1.66040907	3.0866777412	-1.6188016488	1.3364593313
## 494	1	0.60082334	1.9293646157	-1.1076131162	1.3290682724
## 495	1	1.01694126	-0.9998193092	0.3692193309	-1.4307306149
## 496	2	2.37882014	-1.0856601677	-0.9484234928	-1.6228544638
## 497	1	2.57573302	-2.1709385286	-1.5174696993	-0.3606388637
## 498	1	-2.16951394	2.7620243500	-1.4938525950	1.1831820096
## 499	1	2.50601399	-1.4300673210	2.4221485113	0.5447477626
## 500	1	1.04193071	-0.1962860207	-1.2511547199	-0.6169098519
## 501	1	0.55082603	0.1144573576	-0.7973406512	-0.4313456059
## 502	1	2.68506294	0.1663323929	2.5334494856	0.3137396375
## 503	1	-2.64186545	-2.0990408746	1.0400464377	2.3467040240
## 504	1	-0.84102705	-1.0867544805	-0.0826990931	-1.9436839779
## 505	2	1.64555972	0.2298891553	-0.9692429311	0.2339768671
## 506	1	2.11987202	0.5350565188	-0.1911010054	-0.8269442494
## 507	1	-1.75562268	-0.6811749475	0.1056150724	-1.0445093820
## 508	1	1.47286643	-0.8614500753	-0.5401454868	-0.8703153872
## 509	1	-2.56260465	-2.4274224786	-0.4842759441	-0.3909058476
## 510	1	-1.79184660	0.1562028444	4.1157948294	-0.2151134292
## 511	1	-2.15576850	2.0862078509	0.3296852977	-0.1050033593
## 512	1	0.56301471	1.3210782525	-0.6625966113	-0.7464211444
## 513	1	2.17630913	-0.8240171108	-0.9061150153	0.2767636701
## 514	2	3.57247524	-1.4915424085	-1.6600052152	0.2339373368

## 515	2	-0.14478463	-2.5289177758	-0.9311632670	-0.3418367923
## 516	1	2.56704170	0.9950603988	1.0994875618	-0.9083555439
## 517	1	2.25480336	-0.1097116317	0.2923313715	-1.0673177871
## 518	1	1.67097822	-1.2100322207	2.2680734224	0.5736265784
## 519	1	0.27331088	-2.5706968427	1.5206296292	1.8228248991
## 520	1	0.05942272	-0.8797334362	1.0995975453	-1.6429159086
## 521	1	0.36702892	0.0998509015	-1.7029789449	0.3858266347
## 522	1	1.00710183	-0.9416148413	2.7284969639	-0.7966112300
## 523	1	2.39277321	0.3497628589	-0.2820368691	0.7179231651
## 524	1	-1.81244523	0.4617846469	0.6642973231	-2.9843088236
## 525	1	-1.39272920	-0.8078439847	-0.3194503232	0.0032895041
## 526	2	2.16731142	-0.9711435839	-1.9600488493	2.0099940968
## 527	1	-2.83553259	-1.6224040149	-0.6522741271	-0.7092245546
## 528	1	-0.17515885	-1.9887894195	-1.4477783804	-0.1172093847
## 529	2	0.22123628	-0.5508550034	-1.3266179292	0.8542615816
## 530	1	-0.81112541	-0.3390638334	-0.5090440556	-0.0583181332
## 531	1	-0.46247392	-0.5752988776	-0.8839295625	-0.8931918501
## 532	1	-1.36312383	-1.2583370991	-0.7266532542	0.3137338593
## 533	1	-1.05066807	-1.0793328256	-1.7865621255	0.6212697522
## 534	1	-3.42040264	-1.7057678353	1.8766904216	1.4139242723
## 535	1	-2.27182485	2.0481122435	-0.4945925627	1.9242134893
## 536	1	-5.13177684	2.0344087127	1.0516385471	-1.5485942703
## 537	1	0.09320764	1.0380151317	-1.9081574970	2.2275045737
## 538	1	-0.69661308	-0.2492420879	3.5090575899	-0.9054851482
## 539	1	-4.48722942	0.8580029430	-0.3828190268	-0.4967841854
## 540	1	1.08543889	0.6162528247	-1.1540356804	0.4529973508
## 541	2	0.80204583	-1.6877079245	-1.3425360025	1.0810189779
## 542	1	-1.06735195	1.1682321496	-0.4814813851	0.3218340163
## 543	1	0.88790867	0.9747813854	-1.6568219821	1.7844729977
## 544	1	0.98564683	-0.4331277272	-0.1318239927	0.3725998443
## 545	1	-5.04383754	0.3238071586	-1.2271570155	-0.5336713603
## 546	1	-0.92430890	-0.6345868368	2.6393720099	0.8512408593
## 547	1	2.94019335	-1.1058243319	-1.6143025425	-0.3259340099
## 548	2	1.62227251	0.9034329734	-1.1686636551	0.3066430258
## 549	1	0.73884805	-0.2381908266	-0.2431284397	0.3268057672
## 550	1	0.51408689	0.6254487866	-1.0207217832	0.2655302339
## 551	1	2.12496332	-0.0416897415	0.2784071130	-1.4333762967
## 552	1	-0.59261923	2.5082908063	0.0772749428	0.2115997223
## 553	1	-2.83702638	2.9658060269	-1.4167578789	1.3966171050
## 554	1	1.73826533	-1.3408299897	1.6795821892	1.9868865846
## 555	1	0.03558432	0.4323453773	0.1890064166	1.3673767897
## 556	1	2.02716213	-0.0562905260	-0.1564613519	-2.0519831395
## 557	1	0.18188530	1.0371654735	-0.4159884603	1.2141859534
## 558	1	0.87915414	2.4810650729	-0.1380651274	-1.1425913131
## 559	1	-0.85862254	-0.0169677130	0.8692965380	-1.6067811740
## 560	1	1.94630819	1.7760207440	-1.0788990547	0.4644763577
## 561	1	1.43347700	1.7562168311	-0.3574850890	-0.3762753781
## 562	1	-6.10285141	-1.1922304642	-1.3159059193	-0.1202249399
## 563	2	-0.14267713	-2.4816200280	-0.9798776580	-0.0806157224
## 564	1	1.08865602	-2.9404811911	2.1746853455	1.7700853487
## 565	1	0.09969609	-2.2073113873	-1.3291099429	0.3846792945
## 566	1	2.69892945	-1.1523331416	-0.0176177176	0.2016083459
## 567	2	0.63314308	-1.0356655603	-2.0855374661	1.6528653059
## 568	1	0.70359627	-2.3075027908	1.6008689254	1.7916203878

## 569	2	-2.65841688	2.6579562686	-2.0036965682	2.2020752428
## 570	1	-0.94738375	-1.8579967903	-0.7092107521	0.4917821946
## 571	1	1.00283869	0.1430421141	0.6273794483	-0.3043752601
## 572	1	1.94452807	0.7577652895	0.6098058787	-1.1965847932
## 573	1	0.30451059	0.8789564968	-0.0770756550	-0.7057392437
## 574	2	1.70742008	-1.3915667188	-1.3158270395	1.6517091893
## 575	1	1.33928276	-0.3899750383	-0.6737502661	0.7544989123
## 576	1	-0.35689297	2.9192226068	-0.8839908356	-0.4875643844
## 577	1	1.82234714	-1.1884904922	0.3965760935	-0.5942852173
## 578	1	1.12813863	0.2578127061	0.2213662709	-2.1187182280
## 579	1	-2.08707401	-0.6262642873	-1.3328186741	0.6690008301
## 580	1	1.09006949	-0.9873110881	-1.4088844933	0.0004883157
## 581	1	1.93252618	-0.7433248703	-0.4467432838	-0.0512596695
## 582	1	1.73139761	0.8123813440	2.9020514374	0.7130028511
## 583	1	-0.49115484	-0.2777556432	3.6637673336	0.4704867306
## 584	1	1.08659778	0.2047000294	-0.4556955632	0.2984350348
## 585	1	-5.71256645	-0.1621289015	0.1713872959	-1.4496095368
## 586	2	3.29766181	0.5510131860	2.7986219558	0.5783207313
## 587	1	2.64678701	1.7069135907	0.5676357133	-2.8487888962
## 588	1	0.04861270	2.1257548721	2.1655034845	1.8941195182
## 589	1	-2.35372436	2.1232859050	-1.1649018889	1.8405615630
## 590	2	2.99145516	0.3343477891	-1.0124748985	-0.0356848133
## 591	1	-1.92072388	-1.0862268327	-1.0917581609	-0.7317987351
## 592	2	1.64449182	-1.2080108233	-1.9170224472	2.1402743918
## 593	1	-4.32307096	-0.0088796258	-1.0203196227	-0.3131780896
## 594	1	-0.10098000	-0.4144118894	0.0727670023	-0.8418332796
## 595	1	0.55469110	-1.1272993062	3.5868450940	0.1236994624
## 596	2	-7.79509390	-0.7808374086	-2.3706502293	2.3076396830
## 597	1	1.57877141	0.1151384313	-1.1876695310	0.5448897842
## 598	1	0.58308299	1.7346760930	-0.9655445159	0.4560913037
## 599	2	2.22398034	-0.2800936844	-1.0191485947	1.6550988355
## 600	1	1.22452592	1.9653132592	0.2984196735	-0.7116009971
## 601	1	-1.99660419	-1.1870720871	-0.0722523787	-1.7161216547
## 602	1	1.32241260	1.2644235716	-0.9666258375	1.4209729966
## 603	1	1.62716195	0.2168909364	1.9411386440	3.4980749193
## 604	1	2.38139581	-0.0191657925	-1.0630722202	0.8524453301
## 605	1	-1.21911765	-0.3280310054	0.1989509931	-1.4398177549
## 606	1	0.27781373	1.6709958120	0.6556116829	-0.8046159161
## 607	1	1.58923023	-0.8123280778	-0.2657662340	0.4302147356
## 608	2	-1.57676083	-1.6130160537	0.1593172902	-0.4695054493
## 609	2	-0.61415210	-1.8627473918	-1.3918241596	1.5615877526
## 610	1	-1.28290223	2.0741695942	2.2535970115	2.9299383838
## 611	1	-0.88847861	-0.7616439656	0.4980182854	-1.4251283389
## 612	1	-0.97221354	-0.5711646211	1.8884412700	2.1945485412
## 613	1	-0.23508897	-2.4787530140	1.8741340217	0.9709220933
## 614	1	1.91794819	1.5901429014	1.6157017080	-0.8135921974
## 615	2	1.12756948	-1.7377404520	-0.1348726949	-0.7761863133
## 616	1	2.99940090	0.6098391179	-0.0319065951	-2.5666724810
## 617	1	-5.31629058	-0.3311565526	-0.3820039856	-0.1217969995
## 618	1	0.16984651	1.9177926762	-1.3198032147	1.1642558861
## 619	1	2.19433303	-0.1131771502	-1.2046150280	0.5261527134
## 620	1	-0.17989552	-1.6691289056	2.8365786618	-0.2796486994
## 621	1	1.59172240	-1.0126033562	-1.0907454903	-0.0726121234
## 622	1	-2.55332711	-2.4014540670	-0.1753905593	-1.4902484299



## 623	1	0.97009576	0.0694785689	-0.9380861865	-1.2619713859
## 624	1	1.03671562	1.5398441769	-0.2202553676	-1.0108611002
## 625	1	-1.87865740	1.2628928058	-1.1494555901	2.3020066041
## 626	1	-0.84872307	1.2863258611	-1.5054719028	0.0144604501
## 627	1	0.81059763	0.7567328520	-0.8697512859	-0.5678395950
## 628	1	-2.73053381	1.0938252553	1.9605372991	3.1706544790
## 629	1	1.23205167	1.2320933156	0.0163292550	-0.0153702165
## 630	1	1.57171589	1.4780132625	0.7123669413	-1.9491127799
## 631	1	1.67487472	0.6688295902	3.1054886923	0.6924830248
## 632	1	1.23688570	1.1592485799	3.2433828197	1.5461701721
## 633	1	1.73390492	0.0010237887	-0.9310590022	0.8462572187
## 634	1	1.41249612	0.5837709596	3.3252504012	0.8452881944
## 635	1	1.67747653	-1.5746470153	-0.4991749325	0.0369505794
## 636	1	-3.72714839	-2.0549394704	2.7389150939	0.2799081349
## 637	2	0.24836952	-1.0237984031	0.8643067208	-0.6379382912
## 638	1	2.08121332	0.9606308232	0.3384468549	-2.0193822350
## 639	1	1.69261909	-1.4226115906	-1.1490546374	-0.5351192778
## 640	1	1.20100168	0.7074360084	-0.1243340751	-0.1898470521
## 641	1	1.68362904	-0.7650651987	0.9532272304	-0.7610415291
## 642	1	-0.39943846	-1.6861239716	-0.4299739908	-1.1595254782
## 643	1	1.93560404	-0.9481433597	0.0610118211	-0.1972272368
## 644	1	-0.01673397	1.6935624460	-0.4674753616	-0.0835397984
## 645	1	1.43434297	0.2333727126	0.5502994082	-0.1653717421
## 646	2	2.16155164	-0.0388867804	0.0195085673	-0.2402407529
## 647	1	-1.57661639	1.6521275002	-1.6331499672	1.5132224559
## 648	1	-2.25622821	-0.8040229270	0.1859843957	-0.3169226155
## 649	1	1.43461083	-0.3835031714	-0.5336780025	-0.1557657011
## 650	1	-4.21881581	0.5994901695	-0.8330421471	2.4888116235
## 651	1	0.14548377	1.7118804411	-0.3313467575	-0.0420163562
## 652	1	-0.70212473	-2.3090550456	2.3502508208	0.9606078597
## 653	1	-0.17843546	-1.7238547831	-1.2576099354	0.5227228275
## 654	1	-6.21966944	0.4703145889	-0.2306267778	-1.4910191795
## 655	1	-0.03595042	3.0336710350	-0.1267186208	-0.7471020179
## 656	1	1.43972341	2.1213823287	0.1305599464	-1.7566821054
## 657	2	2.93271653	-0.4954666379	2.4231752168	3.2115361580
## 658	1	1.48638245	1.7002335130	0.9906683457	-2.3717163503
## 659	1	0.24225577	-0.6283795303	-0.5836198655	-0.3621557747
## 660	1	1.67830873	-1.2742409685	-1.3032320746	0.5223821996
## 661	2	1.96112651	2.7318495163	-0.5579306562	0.7008274998
## 662	1	1.42215129	1.5192084980	2.3773226094	1.4947518546
## 663	2	3.02798482	-2.5323513160	-1.9399004628	0.8742179472
## 664	2	3.63983330	-1.4345618939	0.0822724022	0.7628986134
## 665	1	-1.85956561	-0.5801524909	1.4407985129	-1.5482266160
## 666	1	1.59981255	-1.1617862563	-0.7923485833	1.3370152905
## 667	2	2.29083365	-0.9907968878	0.4846164909	0.0460131504
## 668	2	0.79761836	1.1206390344	-0.4330164183	0.1494118019
## 669	1	1.79603478	0.8088910893	0.6767638578	-0.8471802210
## 670	2	1.72956311	0.9366001979	1.8406101072	2.5980135402
## 671	1	2.84131824	-0.6298615498	-0.0793318270	0.8894039196
## 672	1	2.37595833	1.7269767398	0.7448793392	-2.0411444843
## 673	1	0.51527353	-0.8893641430	-0.9997487379	1.4172445459
## 674	1	1.96164011	0.0214001654	-1.4578996325	0.3681084005
## 675	1	-1.53855005	2.8402905231	-0.6026537156	0.2553969690
## 676	1	0.40256059	-1.8504384695	-0.7455410712	-0.0597969959

## 677	1	-0.07041215	-0.1522356259	3.7998615067	1.0041222497
## 678	1	-3.56831888	0.4481989937	-0.6783210613	-0.4822928617
## 679	1	1.57051440	2.0366071545	0.4159037525	-0.2590805006
## 680	1	0.39457081	-1.0191516885	-0.6742568226	-0.7840261870
## 681	1	1.54950528	-0.5594221634	-0.4122643240	0.8609800166
## 682	1	-3.23308978	-0.9124607684	-0.2532610158	-1.4628238174
## 683	1	2.00955217	0.7400909822	2.4091421657	1.5495324112
## 684	2	3.27681205	-0.8927904764	0.0551934405	-0.4969783651
## 685	1	0.53964688	1.1241887386	-1.2751291463	0.0450099977
## 686	1	0.56317635	-2.3178900991	-1.1875099662	-0.4149330358
## 687	1	-2.70079888	-1.9637332330	-0.2393005997	-0.9408019491
## 688	1	-0.69561805	-1.0389859278	2.4943270722	1.1334875699
## 689	2	3.60792560	-2.5375421480	-1.8308885171	0.8192263688
## 690	2	3.42835082	-0.7615477992	-0.0310606890	1.1016604330
## 691	1	-0.84217375	0.0291948032	0.0535805412	-1.9094986442
## 692	1	1.87607920	2.2598931955	-0.6147657367	-0.0692471449
## 693	1	-0.43348021	-0.1752924886	-0.5422649895	-1.1936866007
## 694	2	-1.46737265	-2.2777993150	-1.3055709990	-0.6993642328
## 695	1	0.96241608	-0.0123710086	-0.3320109784	0.4085590717
## 696	2	-1.93338835	-1.2764642857	-2.0830436715	1.0287532420
## 697	1	-0.45029145	-0.1776291260	-0.1404539730	-1.0081527173
## 698	1	2.38187838	-1.1192973976	-0.2916257373	-1.0256362448
## 699	1	1.40494588	-0.7547792619	-0.5726903914	0.0698278775
## 700	1	-3.97166959	0.9902258800	-0.1205292810	-0.0664125933
## 701	2	2.07395851	-0.1236085576	1.6241407210	3.6800970434
## 702	1	-4.96822214	0.2893457481	-0.5625928371	-0.8795325673
## 703	1	-0.90062536	-0.8183541107	-0.8513588863	-1.6432466428
## 704	1	0.93109303	-1.6579502787	-1.5148175151	0.7431415695
## 705	1	-1.42645057	0.1760749333	-0.6088519001	-1.2116980821
## 706	1	-0.77383088	-1.5532439651	-0.6298549335	0.6863719182
## 707	2	-0.14284030	0.4777983622	-2.0053604425	3.1842938246
## 708	1	-2.27273201	-0.1732263477	1.0429652264	-0.8912607814
## 709	1	-0.38520499	0.1008329465	-0.1835325900	-1.7871313347
## 710	2	2.60603539	-2.1978243492	2.1633958481	2.4266575173
## 711	1	-1.88338811	-0.9262489622	-1.6398030084	0.5290015765
## 712	2	3.08429116	-0.4380841983	1.0221487727	3.1344395318
## 713	1	2.10976770	-0.8814771288	-0.0056449866	0.7227468959
## 714	1	0.87380475	2.3038596704	0.3213597662	-1.5532614627
## 715	1	-2.75310401	3.0043262432	2.0881496119	2.4580520652
## 716	1	0.57946520	0.9397031335	-0.1137015236	-0.8509007273
## 717	1	-4.93795413	-0.1604528101	0.7774439072	-1.1067151575
## 718	1	1.71097732	1.4766802814	-0.2396529558	-0.1953276358
## 719	1	-0.54609922	-0.1563956569	0.5297121011	-0.9688033713
## 720	1	0.37464119	-1.1328395285	-0.9486739613	1.1718328246
## 721	2	2.19267349	-0.4739993316	-1.4432999101	0.7051331395
## 722	1	-3.17956438	1.1183302685	0.1818259157	0.4557994741
## 723	1	2.27823131	0.1427087828	0.6884855380	-0.8322910636
## 724	1	-1.54480654	1.5707547864	-0.3573111263	-0.7802613698
## 725	1	1.38264514	0.2178048003	0.7679090402	-2.1972379820
## 726	2	1.90032440	0.3341000702	3.1098388968	1.4436677587
## 727	1	1.38182790	0.3563051789	-0.3034190447	-1.1804774863
## 728	1	3.53597534	-1.0171250675	-0.3313844311	-0.0594925043
## 729	1	-2.54178513	1.8328741940	-1.1235417845	0.2480284695
## 730	1	-2.64396343	0.4674531412	-0.0458250959	-1.6004725598

## 731	1	-0.89154482	0.1865409154	-0.1570556892	-1.9791580125
## 732	2	3.49459179	-1.1246163340	-1.0600159634	1.0892670085
## 733	2	2.36871160	-1.1695791134	-0.2480242199	0.9608981687
## 734	1	0.56177823	-0.5500477782	-0.3493752713	-1.3677949904
## 735	1	2.31077372	-0.1696956385	0.6549379244	-1.2181790614
## 736	1	0.11709902	1.3374667428	-0.9014423481	1.2867001784
## 737	1	-3.67870641	0.9110612330	-0.6808301974	1.1249252869
## 738	1	1.02795782	0.4328229796	-1.1814687812	1.0456396167
## 739	1	-3.86020870	-1.0234748981	0.2306536982	-0.7970773463
## 740	1	1.40919740	0.0497425152	0.6835925666	-0.5243293420
## 741	1	1.74088890	0.5189308237	3.2719693708	-0.2785632747
## 742	1	-1.33164855	2.0393115984	-1.9424711066	1.7030472484
## 743	1	1.71952643	1.6020300527	0.2073090913	0.8605501562
## 744	1	-2.65936156	1.1970564851	-1.7918553473	2.3519411250
## 745	2	1.53164185	1.3910595733	-0.5237423515	1.7251877413
## 746	1	-2.01383692	1.3073862571	0.2246930927	-0.8068449794
## 747	1	-5.43990452	-1.3128214074	3.5633333835	-0.0905403359
## 748	1	0.81581166	0.8440220384	-2.3820776875	2.1221252592
## 749	2	1.84378068	-1.6129185907	-1.0791613962	2.0846319588
## 750	2	-6.57746784	-1.9026294682	-0.8935635784	0.7570802765
## 751	1	-4.42215842	-1.4557787139	-0.0795825489	-0.1091495528
## 752	1	-2.32998763	-1.6461874078	-0.6917626341	-1.2417639481
## 753	2	-2.99478195	-3.0699844452	0.2859869563	-0.5322675029
## 754	1	-2.56625050	-0.8783832129	-0.8432119047	0.2930832701
## 755	1	2.26648058	-2.1462297753	-0.1275702610	0.7148128848
## 756	1	-2.27714251	1.4247760951	-1.1624091811	0.4346163680
## 757	1	-0.48539355	-0.1845787162	-0.4885777425	0.0032768671
## 758	1	-0.97669129	-0.3442341095	-0.9941948138	-1.5842648996
## 759	1	-1.21196620	1.2924082754	-0.9544420351	0.6564907169
## 760	1	1.09244387	0.6544724512	0.5450584309	0.2004008229
## 761	1	-3.73839270	-1.4160332603	-1.1224765392	-0.2689431198
## 762	2	1.73147559	2.2497702829	-0.2970626084	0.1613133752
## 763	2	2.31014869	0.0465478168	-0.7304063699	0.3363306915
## 764	1	2.48784158	-0.2909583098	-0.2441843202	0.3033977003
## 765	1	3.21387996	-1.6060047961	2.0781383530	1.0122203324
## 766	1	1.47499575	0.4771147516	0.2572723081	-0.6477298554
## 767	1	-3.86588451	1.7932477650	-1.6321963504	0.7534697125
## 768	1	1.09266893	0.5068180693	-0.5376203223	0.7969725104
## 769	1	-0.79758827	-1.3208580565	-0.5302050580	-0.8064820029
## 770	1	1.84144086	-0.1645090729	0.4353253431	-2.4290498874
## 771	1	-2.58265084	3.8275032928	-0.6832809218	1.2241206313
## 772	1	-1.64261916	0.6058119239	-1.8094429848	0.4782735907
## 773	1	0.17028060	0.6837657679	0.6212596364	0.1774069435
## 774	1	-2.33390470	-1.4302439805	-1.0750752763	-0.1136390291
## 775	1	-3.47992289	0.9501513192	-1.1100790906	2.0717814715
## 776	1	0.04045189	1.4454913050	-1.1493915806	0.0879058827
## 777	2	3.03999237	-2.5811768820	-1.5460303462	0.7588301281
## 778	2	3.32833488	-0.7723367722	-0.8523717058	0.4804592191
## 779	1	-2.38381334	0.9657286730	3.4342832928	0.2076491966
## 780	2	-0.14695964	1.8531194935	-0.8351946587	-0.0867878994
## 781	2	-0.50179839	-1.2626995342	-0.3209787035	-0.0147861983
## 782	1	1.60407041	0.1362295902	0.8907394823	-1.4860112682
## 783	1	0.84506019	0.6962950372	0.0736594912	-0.6877165665
## 784	1	0.13136766	-1.0781414850	-0.5154087389	-0.8661980337

## 785	1	-2.50019646	-0.5683436043	1.1446277955	-0.7480662355
## 786	1	-2.34894125	0.3517724988	2.6900892590	0.8089775243
## 787	1	1.71933714	1.0765065938	1.7249081825	-1.5639457202
## 788	1	-0.98607534	1.9186413511	0.1116081172	0.6316645503
## 789	1	0.13701298	-1.3784035120	-0.9131717195	-0.2723110689
## 790	2	-2.59737736	2.1768024351	-0.2387418884	0.5931817841
## 791	1	0.30273949	2.0829149416	0.1805970240	-0.4668342722
## 792	2	-0.55488610	-2.8786992870	1.4200917752	2.3236461156
## 793	2	-0.51413373	-2.8399124734	2.4311661788	2.0344525906
## 794	1	1.85357263	0.6425189696	0.8891390983	-1.5845928092
## 795	1	0.85309617	-0.0869030868	0.2783469353	0.5887449101
## 796	1	1.25078309	1.2022850457	-0.5673911370	-1.1073541426
## 797	2	0.91397897	-1.4840993757	0.4100962687	-1.4523871970
## 798	2	2.95348964	0.4771828543	2.8645328863	0.7099916284
## 799	2	2.30585115	-1.1888636951	1.6224454622	2.8717499742
## 800	1	-4.64121505	-0.6293366017	0.1629125021	-0.5856502458
## 801	2	2.95627124	0.9085383417	0.7420021904	-1.3905183253
## 802	2	1.86641021	-0.2504573344	-2.2603563788	2.0283672206
## 803	1	1.48606926	-0.8204239588	-0.2282749295	-0.4065941724
## 804	1	2.20300783	1.3792041446	0.5935503268	-0.8901505413
## 805	1	-2.15202569	1.0153071342	1.8200948377	3.3606514348
## 806	1	-2.40226778	-1.9245032366	-0.4228859537	-1.0980808541
## 807	1	-1.66351479	2.0638363313	-0.3082234416	2.1661375318
## 808	1	-1.09329654	-0.4785460539	-0.0980496131	-1.6873104378
## 809	1	0.47905668	-0.0202879247	3.3030057954	0.3020868772
## 810	1	-0.78011661	0.6919746928	1.3647758613	-2.7090685957
## 811	1	-3.76883504	-0.1675455128	-1.0587127818	-0.2457561124
## 812	1	1.04072855	0.1939591402	-1.8241368306	2.1143187174
## 813	1	-1.30486789	2.1866061226	-1.0456089779	0.3981397484
## 814	2	-3.60978770	1.7089741319	-0.0928680394	-1.5582340004
## 815	1	-4.20901745	-0.9580268222	-0.9010170766	0.7639672816
## 816	1	2.67203497	-1.6210429932	-1.4186433516	-0.4405078780
## 817	1	0.37531523	1.3166705294	-0.5887253071	1.2622184668
## 818	1	-1.31878265	-1.3302927606	2.4319020850	1.7766439468
## 819	1	2.05749778	-1.1250612828	-0.6216924353	-1.4772189872
## 820	1	1.88873657	-0.8167882774	0.4950340098	-0.4368510609
## 821	1	1.21743924	-0.0422158548	-0.8255214865	-1.6446932807
## 822	1	-2.55605678	0.3541665649	-0.9864684903	1.0460798074
## 823	1	1.59096759	0.3106432034	-1.1811296528	-0.0343967155
## 824	1	1.16969715	0.3860773115	0.4147241101	-2.1312040108
## 825	1	1.17885792	0.7395049252	0.1064579681	1.9075542383
## 826	1	0.47888587	-0.3931387026	0.1977273479	-0.8059227424
## 827	1	0.61112034	1.2191069236	0.4144200189	-1.5084838266
## 828	1	2.20421876	0.3172978287	-0.0425324576	-1.1400399215
## 829	2	3.74673754	-0.7893469337	-0.8628132488	0.1509071731
## 830	2	1.30023262	-1.8752604817	-1.3570064557	1.8474833725
## 831	1	1.81537993	1.5363152292	-0.7016832209	-0.3380421710
## 832	2	2.31953309	0.0836217998	-0.2244431545	-1.1119208651
## 833	1	0.31315694	2.3043208077	0.2694659082	-1.0459188404
## 834	1	1.91746733	-0.2594802192	-0.3074499396	-1.0637805235
## 835	1	0.85739866	-1.6886106630	2.0953503240	0.9617712604
## 836	1	1.19138615	0.6405417476	0.6112535259	0.0383480508
## 837	2	-0.90066443	-2.6496480796	-0.7176722701	-0.7230382336
## 838	1	-3.27655718	-0.1468423009	-0.5678823984	1.3846421448

## 839	2	-4.66096627	-3.6648448350	-1.5730102545	0.3523485749
## 840	1	0.09313706	-0.4535282481	-1.8371976898	1.0053600657
## 841	1	0.73335398	1.2199069835	-0.4454290294	-0.7029518028
## 842	1	1.75134784	0.1138379354	2.2764139147	2.1952971352
## 843	2	3.08422007	0.1422287205	-1.0642979708	-0.0033515089
## 844	1	0.54841853	-0.3585493360	3.5047014149	-0.0931687312
## 845	1	0.40318560	-1.1863012167	0.2407958710	-0.6222313876
## 846	1	1.16233088	1.1608743498	-0.7740913303	0.3730779491
## 847	1	-1.50842133	0.4334729853	0.6725049445	-0.7022102770
## 848	1	-1.33506913	-1.4834063237	2.5416324946	0.9168748838
## 849	1	1.79073426	0.4126938640	-0.1000014984	-1.0026248994
## 850	2	0.96125959	-0.5269869569	-2.0102299010	2.2103192715
## 851	1	2.62919549	0.3391828668	-0.0964863827	-2.6240235078
## 852	1	-3.47437595	3.4370382361	-1.3634352684	0.9143322450
## 853	1	0.29643848	-0.8004492141	0.4795294476	-1.9835209865
## 854	1	3.21603561	-1.3867833466	2.8056641795	1.6796697517
## 855	1	1.32778928	1.1110354368	0.2077279701	0.6910150835
## 856	1	-1.69355894	-0.7629055753	0.0802089200	-1.4302906978
## 857	1	2.51223988	-0.4158343740	-0.4695219566	-0.2902217082
## 858	2	1.55519749	-0.4876653169	-1.6631587731	0.6729757661
## 859	1	-4.00396362	1.7070075034	0.2472974973	0.0900420178
## 860	1	1.77537621	-1.0278275866	0.7301585348	-0.3775212785
## 861	2	3.33797572	-0.4593532160	-0.8580374074	-0.8060092966
## 862	1	-6.61479379	-1.4059642521	2.2285954527	2.0608978429
## 863	1	2.24534485	-0.0191915469	-0.9580971853	0.6878264505
## 864	1	1.16418036	1.3295730865	0.4515703338	-1.3951501066
## 865	2	2.54065509	1.3819741919	0.2827294598	0.3298804622
## 866	1	0.82491965	1.5045597523	0.7465862074	-1.1274809418
## 867	1	1.59291666	1.6155977393	-1.0459931592	-0.7719800201
## 868	1	-2.41084583	1.9819716458	2.0292503471	2.5781634533
## 869	1	0.93666953	0.8831814798	0.5087257492	-2.5564748036
## 870	1	-2.32896015	2.5729615287	-1.4223754966	0.7436533715
## 871	1	-0.90135982	0.3499771379	-0.2464883011	-1.1311262696
## 872	2	3.25059323	0.4535718400	-0.0921305658	-0.7864711421
## 873	1	0.43179446	-1.0050325145	-0.5055643601	-1.1907923084
## 874	1	0.24941349	0.2688707454	0.7023079846	-1.9720789156
## 875	1	-1.17205705	0.3182254652	1.2777579641	-3.5881907706
## 876	1	-3.95640184	-3.8456851837	3.4553447923	0.7938534294
## 877	1	2.61440487	-2.0207782609	-0.5668155143	0.0661315560
## 878	1	-0.24172384	1.4238237718	-0.7083593790	-1.1864823761
## 879	1	0.21370272	2.8251815581	0.4318944490	-0.1194881194
## 880	1	-1.52615545	-0.4586791253	0.3101678293	-0.8335186928
## 881	1	1.92248445	-0.1886748908	2.8039544370	0.4979733328
## 882	1	0.04663738	-0.9128460567	-0.7828579674	0.2375085938
## 883	1	-1.93262042	-0.3607335517	2.6409150066	0.6772635849
## 884	1	-1.00376877	-1.9976266230	0.3476474204	-2.2930231045
## 885	1	0.54701301	0.6093859581	-1.2527975916	-0.3135948743
## 886	1	1.59928019	-1.5080045778	-1.1443443855	0.1439436429
## 887	1	-0.32701389	-1.7051978912	3.0787931787	-0.3380632490
## 888	1	-0.27407846	1.4588386118	-0.9253380255	2.0012088960
## 889	1	-1.79753421	-1.2453728175	-1.0683406716	-0.8276116645
## 890	1	0.01384837	-0.9916778569	0.4242672886	-2.0070208058
## 891	1	-2.32134226	3.0183832745	0.0125965243	0.7731786249
## 892	1	-0.29382272	-0.8074848278	-0.0588957699	-1.6470749481

## 893	2	3.53888584	-2.1056985404	2.5618278832	2.7163353729
## 894	1	1.87077243	0.9285995988	1.0700080915	-2.7783102990
## 895	1	-4.22838617	1.1345989327	-0.9923533703	0.9905736445
## 896	1	0.90721921	0.9049451814	-0.5565491298	-0.4071904287
## 897	1	-0.67145249	-0.8478902559	0.7721471146	0.2717303836
## 898	1	-0.18242713	-0.1641185016	-1.4487567296	2.2210533497
## 899	1	-3.36199806	1.2954981244	-0.7951059535	0.6899881668
## 900	1	-1.60435143	2.7388128055	-1.1489237504	1.1571683282
## 901	1	-0.18574245	-1.2571858498	-0.4256516541	-1.2869562477
## 902	1	1.96368676	1.6156096756	-1.4215303923	0.4544704339
## 903	1	1.77115939	0.8954977472	0.5930382143	-3.3300883302
## 904	1	1.21974019	2.2512203884	0.2379378980	-2.0972807033
## 905	1	-1.66290135	2.3984830697	-2.3387622472	2.5288732661
## 906	1	-1.67074531	1.0540596602	0.1713486684	-1.4892360270
## 907	1	2.65736327	0.1468205028	-0.0913834747	-0.1916351294
## 908	1	-5.08469031	0.6076986858	-1.3612699114	-0.2040284943
## 909	1	-1.14815072	-0.2454542087	-0.3968512744	-1.8441292046
## 910	1	3.00297101	-0.8125664660	-1.2696424047	0.2921451741
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## 912	2	3.56788315	-2.5393501241	-1.3659928483	0.8585970717
## 913	1	1.49122120	-1.7559654871	2.0942380823	1.3428533773
## 914	2	-4.74433497	-1.6083731960	-1.1840160361	2.0339492173
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## 916	2	2.75213923	-1.6719550476	2.0198655915	2.3008219427
## 917	1	-3.51085803	0.4891584654	-1.2261452953	0.7580108494
## 918	1	1.58561051	-1.3285547111	-1.9843023086	0.5330257696
## 919	1	-6.86390248	-0.6810505096	2.8636081477	1.1702566523
## 920	1	-2.70541196	1.2714576110	-1.5656210405	1.2319304462
## 921	1	-1.66728291	0.2575648468	0.5785261548	-2.2311837530
## 922	1	2.08805874	-0.2177787097	-0.9473787363	-0.3035795902
## 923	1	-6.54764057	0.3045942777	0.4840904274	-2.2927137554
## 924	1	-0.99263583	1.1902193850	0.3699080105	-1.9991465108
## 925	1	1.91304744	-0.5013157748	-0.4185939112	-0.5948582176
## 926	1	1.03550429	1.7214980351	-1.0425309485	1.4453085664
## 927	1	-4.94472527	-3.2734763091	-1.2980484165	0.1369972357
## 928	1	-2.88115773	-0.9183106655	-1.3148809571	0.1591544292
## 929	2	-0.80779522	0.5739792944	-0.7346151606	-0.2017885634
## 930	1	1.96873695	0.2040687875	-0.2209043293	-1.0881092657
## 931	1	0.22765241	-0.9281264841	-0.0923774081	-0.2150110694
## 932	1	0.29131139	-0.4317646668	-0.0601915953	0.9268628857
## 933	2	0.05248594	-0.3404286004	0.3428962902	-1.8297290458
## 934	1	2.22499304	-0.5057684176	-1.2323067317	-0.4132969682
## 935	1	2.45106756	-1.1083576730	-0.3742972667	0.5147456246
## 936	1	-0.36024180	-1.2161838078	-0.0328079517	-1.9137321346
## 937	1	-1.29662348	1.4540093296	1.4041263939	4.0320490801
## 938	1	-4.59497209	1.1219903895	-0.4005983459	-0.8580991114
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## 940	2	0.90279938	0.1584349198	0.5172097064	-0.1793192923
## 941	2	1.88241208	-1.0023453967	-1.1502614725	0.6890068866
## 942	1	-0.11951315	-0.7201856784	-0.0152585234	-1.5481019006
## 943	1	-0.92113379	0.5123187618	-0.4893107586	-0.3838373626
## 944	1	-0.41274057	0.8466689519	-0.5946935598	0.1176944883
## 945	1	-0.79747716	-0.3670387623	0.7426984628	-3.0367648600
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## 947	2	0.46648815	-1.1013135097	-2.4788566151	1.9861921865
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## 949	1	-0.59207993	0.5141745827	2.7986325802	1.2027393974
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## 951	1	-1.75878986	-1.6743371873	0.6389622724	-1.2245368050
## 952	1	-2.01521328	-3.2593197499	-0.9683529149	-0.1064773399
## 953	2	2.37494964	-2.2093938390	-2.0256262781	0.5344266470
## 954	2	1.46418771	0.9984716829	-1.0573792549	0.4675165249
## 955	1	-3.76045210	-0.6175972982	-0.6137469562	-0.1103892147
## 956	1	-5.67997468	0.0420853584	-0.5971116394	-0.0072473735
## 957	1	-4.55551829	2.5159411127	-1.1646044104	2.0267077757
## 958	1	1.58954729	1.9068392308	0.3819152983	-0.3827830927
## 959	1	-1.00773681	1.3403309767	0.1429295513	-2.0057639093
## 960	1	-1.03243542	-1.6138883627	-0.7271216893	-0.5118526244
## 961	1	-0.12910104	-0.5653269620	0.1759419483	-1.2190611355
## 962	1	0.56422333	-0.6507194463	-1.2158823634	-0.0892808880
## 963	1	-5.33857236	1.4504871605	-0.1042061046	-1.2949065484
## 964	1	-0.57428236	-0.4920839955	-0.3944510966	-0.9606974134
## 965	1	-0.99050532	-2.9291068422	-1.5025123638	-0.4654585619
## 966	1	1.91501370	1.1725011381	0.3820648426	-2.8009994655
## 967	2	-3.50706637	0.7585240573	-1.5466716008	2.1820474288
## 968	1	1.33037301	0.9426570225	2.8892513143	0.9993694730
## 969	1	-2.05242161	-1.9168714619	0.0741892592	-1.2549782913
## 970	1	-1.50388745	-0.3547719401	-1.1851399092	-0.0079940785
## 971	1	2.54494453	0.5508270222	-0.9384978035	-0.3375130396
## 972	1	-1.77328531	1.4437936908	-1.1695098368	2.3259488507
## 973	1	3.28094635	-0.2443235843	-0.1542141889	-0.3007272608
## 974	1	0.30551853	0.4541029891	-0.2801833651	-0.9693906976
## 975	1	1.71241320	-1.8970761837	1.4037029376	2.1197793250
## 976	2	-3.53760707	-0.7845726261	-1.7064469307	2.6808641746
## 977	1	-6.44286605	-0.1002305723	-0.3794644845	-0.5437833063
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## 979	1	-2.57341049	0.7843333370	4.0309707960	-1.5355028920
## 980	1	-0.91067858	0.2994267271	0.5192949725	-1.6837521675
## 981	2	2.89068054	-0.9345859462	-1.9417670238	1.7129031997
## 982	2	1.30863680	-1.1276239946	-0.5557622875	0.8021136175
## 983	1	1.49979656	1.4958729808	0.1772479219	-2.9762475219
## 984	1	-2.03863253	-1.2015910270	-0.6462775069	-0.9536657747
## 985	1	1.13975696	-0.8349669028	-1.1423787030	-0.7272183343
## 986	2	-0.09541564	-0.2434729836	-0.1160132386	-0.7464816492
## 987	1	0.26457555	0.0405806594	-0.8111918343	-0.7583244886
## 988	1	-0.65357903	-0.0248703624	-1.8404498442	0.4027435339
## 989	1	0.11037607	1.2895424833	0.3390107950	-1.4316024583
## 990	1	1.17478719	0.4985391699	-0.4623105070	0.1380852901
## 991	1	0.57916376	-0.4014268312	-1.0939652256	0.1590556506
## 992	1	1.65181976	-0.4650228313	-0.3316947898	-1.8198431956
## 993	1	-0.69191472	1.1753011495	3.3216862892	0.8610743063
## 994	1	1.63489978	-0.6855157485	-1.0972964744	-0.7618715614
## 995	1	-1.66768517	1.7818470945	-1.1777316102	0.3693836659
## 996	1	-1.54512218	-1.4867312883	-0.6639219827	0.4744957553
## 997	1	0.78190774	-1.5364570424	-1.6295719072	-0.4034896316
## 998	2	0.86938936	-2.1261565096	-1.4148189264	0.6739533713
## 999	1	2.21106445	-1.4031315563	-0.8427721404	-0.3624484165
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## 1001	1	0.19896721	2.0134968805	-1.0474282972	0.9836381107
## 1002	1	1.61646345	0.4916051681	0.1509943432	0.8114683765
## 1003	1	0.40276344	0.1502754874	-1.3335213373	0.5744637587
## 1004	1	1.98758945	1.0471023292	-0.2978980299	-1.2621013576
## 1005	1	0.80831287	-0.7769452021	-0.6480708359	-0.8799568433
## 1006	1	-0.92344434	-0.4678355630	0.0978698328	-0.4348563953
## 1007	2	0.30569312	0.1834685867	1.9604755395	3.1121225464
## 1008	2	-0.59070206	-1.7881535057	-0.7127978186	0.1660086901
## 1009	1	-5.17478573	-0.0753857657	-0.5474331590	1.7580890679
## 1010	1	-4.25333448	1.5857913513	1.3941909898	2.8563618240
## 1011	1	-2.78527511	3.0067979066	-0.5986839380	-0.6263704087
## 1012	1	0.26742784	-0.3757228515	-1.6049522316	1.7829682372
## 1013	2	3.15680654	-1.9734757374	-1.9924891054	1.1812043056
## 1014	1	1.03551014	1.2474379173	-0.6158614497	-1.0003696725
## 1015	1	-0.38115995	0.8613748330	-2.0749715278	1.4237390337
## 1016	1	1.06284756	1.5596506724	0.0588815526	-1.6429996316
## 1017	2	3.15059008	-1.1519237873	-1.6639052194	1.1123746519
## 1018	1	2.01544849	-0.0460089675	0.2812938617	-1.2064682958
## 1019	1	-0.29029747	-0.6733299154	-0.2048879251	0.6539168116
## 1020	1	0.81719291	0.5176400893	-0.9031423430	-0.3943192661
## 1021	1	0.26384054	1.2945910489	-0.8565007232	-0.1701227363
## 1022	2	2.25099908	-1.7375935306	-1.5148784849	0.2990611440
## 1023	1	1.25059151	-0.3206919020	0.0564246386	-0.5330739777
## 1024	1	1.40434667	0.7778732866	2.4972914977	1.3948482538
## 1025	1	-5.16922492	-0.0193568180	0.5303877285	-0.1674830667
## 1026	1	1.45964582	-0.9278148284	-0.7493002825	-1.6887666348
## 1027	1	0.60222555	0.3898959502	-1.4601991043	-0.2571376314
## 1028	1	1.28695882	1.0810109373	0.4846201762	-0.2921077213
## 1029	1	1.48670841	0.5761298051	-0.8120195938	-0.5187296266
## 1030	1	-0.56486889	1.3514865783	0.2475996499	-2.3541928577
## 1031	1	-2.20502315	-2.1257444762	0.7269120574	-1.6723688622
## 1032	2	-1.88061332	0.0857684064	-1.4980155916	0.1211247754
## 1033	2	2.18285207	-0.3824432408	2.0308175851	3.5720920269
## 1034	2	-0.92083419	-1.0129653197	-1.2010555955	0.0063071114
## 1035	1	-2.05398349	1.7224654973	0.8426203499	0.0026679723
## 1036	1	1.79865715	2.1422520904	0.1141260932	1.0390367356
## 1037	2	1.89400563	1.1627908031	-0.6530855438	0.3259598622
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## 1040	2	2.09637920	0.7659325511	0.0958922703	0.2164470254
## 1041	1	-2.17951229	-0.1137248660	-0.3462799599	-1.7331109221
## 1042	1	0.92445116	-1.6130243419	-0.8131125747	0.5252473027
## 1043	1	1.26274575	0.4877134503	-0.3738373960	0.2196303241
## 1044	1	-4.47177139	0.4127171016	-1.7276848367	1.2305511858
## 1045	1	-0.21017153	2.5368311907	-0.1344342543	0.1843700560
## 1046	1	1.52478710	1.0042621532	-0.0069928563	-1.4414758130
## 1047	1	1.30485713	-0.1163180793	-0.8910154635	0.2167249508
## 1048	1	1.24676210	-0.6351042989	-0.3037376526	-1.4611614437
## 1049	1	-1.43423397	-2.5055650114	-0.4399142605	0.2817574990
## 1050	1	1.53002207	0.8964500778	-0.2935254883	-0.7763537955
## 1051	1	-0.88594690	-1.4481588582	-0.1111601731	-0.6320584983
## 1052	1	1.03302508	1.3365271650	-1.6879424761	0.6639342289
## 1053	1	2.82616956	0.9544560826	0.5311355069	-2.4385502047
## 1054	1	-1.44936355	-0.6705497061	3.5139654484	0.4622511679



## 1055	1	-2.69216936	2.7690035420	0.3897937976	-1.0535908340
## 1056	1	-3.45249258	1.1791565644	0.1308987511	-1.3633784537
## 1057	2	2.35077623	-1.0423489026	-0.8334879504	-0.2748637361
## 1058	2	1.76596155	-1.4780636574	-2.2328417600	1.3308340589
## 1059	2	-1.78432636	-4.4714184739	1.9466972832	2.2298768749
## 1060	1	2.81004052	-0.5761874583	-0.7520393863	-1.0361710639
## 1061	2	3.15487112	-0.0308653165	-1.4837620758	0.8333890300
## 1062	1	3.01766707	-0.8771489033	-0.6110839859	-1.1733679675
## 1063	1	-0.09114663	1.0080043015	-0.4738102960	1.8973505062
## 1064	1	-0.19147948	-0.3119821300	0.0331004323	-1.9259250136
## 1065	1	1.49646413	0.8400692514	3.8395303797	-0.5938849037
## 1066	1	0.64130870	1.4533402913	-0.0548108655	0.4525329062
## 1067	1	1.10119802	1.3701056285	-1.0735474587	0.0680458067
## 1068	1	0.32589754	-0.0628677544	-0.6960638646	0.5319251004
## 1069	2	2.81506923	0.4955375860	-1.5829451061	1.1878168957
## 1070	1	2.84087771	0.9977721811	0.1474922187	-1.3104508775
## 1071	1	1.46869229	-1.7460825389	-1.2259507114	0.0188639310
## 1072	1	0.54834517	0.8902247913	3.0148408122	2.1345765227
## 1073	1	2.03270911	0.9356198978	0.6917335376	-2.6481430914
## 1074	1	0.17898451	-0.2103017764	0.8518865966	-1.9782340282
## 1075	1	1.28014938	1.2377437021	-0.4627193925	1.3305267309
## 1076	1	0.52228356	-0.1187411884	2.4437551553	2.6948312676
## 1077	1	-4.41884283	1.0016245004	2.6950887575	0.9703555701
## 1078	2	0.85800523	-1.0995182096	-1.2665705940	0.7770518903
## 1079	1	-5.68003983	-1.0755959835	-0.4161687752	-0.8031716833
## 1080	1	0.43681560	0.7529670389	-0.6068695262	1.7206189763
## 1081	1	-3.74860001	1.0180600389	-1.6443058245	0.6635217027
## 1082	1	-1.03647319	-0.0019450933	0.3126636250	0.8945116870
## 1083	1	1.90132148	-0.6736133929	-0.1349681860	-0.2053514257
## 1084	2	1.30736831	0.5759814395	-1.0373256886	1.2553626071
## 1085	1	-1.42588797	-2.1758360734	-1.0295380856	-0.5464827117
## 1086	2	0.87338713	-2.0312601076	-0.9789132879	-0.0142292420
## 1087	1	-5.92051853	-1.5176648688	-1.2006565202	0.9656764557
## 1088	1	-0.27077072	-3.0650203069	3.3687279581	-0.0407381868
## 1089	1	1.92829572	1.8848009156	-0.3059772271	-0.1251429706
## 1090	1	-0.50300839	-1.3395408074	0.5570506251	-0.7099625504
## 1091	1	-0.26558271	0.0226571588	0.0310596838	-1.0150104179
## 1092	1	1.27236912	-0.2987371578	-0.9573534730	0.4473437501
## 1093	1	1.09973350	0.4080043146	2.4890269847	0.5987635535
## 1094	1	-4.12107402	-0.2881471983	0.2126491671	-0.9743160964
## 1095	1	0.05475663	-1.4251556084	-1.2542498539	-0.6379094730
## 1096	1	-2.01423160	-0.8089757196	0.1712454766	-1.6405700604
## 1097	1	-3.68719892	-0.6364137015	2.2550586396	2.0523964633
## 1098	1	2.70690179	1.1277509608	1.1188764000	-2.9337026575
## 1099	1	0.90331986	1.6148910305	0.9235714549	-0.3316115135
## 1100	1	-2.10452345	1.2689851567	0.7529521781	-2.9144231148
## 1101	1	1.25535843	-1.3549529077	2.9886738180	0.3645070197
## 1102	1	0.40006186	0.1857759167	-0.6544560368	-0.7100174879
## 1103	1	1.76902339	-1.1858123470	1.1879839943	2.4369259276
## 1104	1	-2.01175632	0.5253303149	-0.7098293265	-0.3969658633
## 1105	1	2.50530514	1.6320414897	0.5115213690	-0.5080595601
## 1106	1	0.98612303	-0.0356180395	-1.0210306562	-0.5075728348
## 1107	2	-0.80396911	-2.1210480506	-1.3183112938	-0.9817354190
## 1108	1	0.34574573	2.0460624739	-0.3639956705	-0.3312162267

## 1109	1	2.16835508	0.0204851193	0.2049073524	0.6395973145
## 1110	1	0.31739826	-0.1444820981	-1.2267160921	-0.3955078777
## 1111	2	2.69181367	1.1151067249	-0.8296291912	-0.2548073743
## 1112	2	-4.32219979	-0.6567566570	-0.2988863014	0.1814609622
## 1113	2	0.99203386	1.0306276439	-0.6911094269	-0.9133176800
## 1114	1	0.71380655	0.5031174344	-0.3141213512	-0.7548469846
## 1115	1	-0.28775989	1.0138147902	-0.9356925094	-0.2960863644
## 1116	1	2.70284411	-0.2562649181	-1.1010080881	0.4795138848
## 1117	1	-6.85181419	-0.6369553670	2.0034904614	1.8228527175
## 1118	1	0.94550356	1.7556564677	-0.1633266091	0.5191513274
## 1119	1	2.98895345	-0.6780325333	2.4445839751	1.0350704743
## 1120	1	-1.39082473	-1.3471307596	-0.9054429747	-1.5889440779
## 1121	1	1.14676917	-1.0466985748	-1.7391116379	0.5314688521
## 1122	1	1.10882850	0.2762976870	-2.0592710739	1.6126384290
## 1123	1	0.43308079	-1.0471115430	0.3932336098	-0.1477578898
## 1124	1	0.58460451	0.5064371528	-0.3804078565	1.0245241344
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## 1130	1	-1.56096493	2.3336435402	0.9846644890	4.5092914841
## 1131	1	-1.08211937	-0.1885796121	1.2333769797	-1.8178706984
## 1132	1	-0.28941231	0.2326234067	0.4374187041	-1.3874801341
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## 1135	1	2.51606988	0.9176172760	0.8466929799	-0.7334778546
## 1136	1	-3.95733808	-0.3499768766	-1.1987899879	0.8165140214
## 1137	2	2.91934148	0.7563565995	0.7415965732	-1.0833013301
## 1138	1	2.25983581	-1.2205685186	-0.0309602201	-0.5877649738
## 1139	1	-6.26282874	-0.2013682428	0.3785605438	-0.6255831841
## 1140	1	1.70650057	0.6946012656	0.2036011056	-0.8017505375
## 1141	1	-4.51712982	0.3513949630	-0.2707782776	-0.7907861805
## 1142	1	1.71675454	-0.4091625355	-0.3378947541	-1.3228467460
## 1143	1	-0.54622365	-0.2847449992	-0.8345579290	0.9418154559
## 1144	1	-0.63979071	-1.5792154092	-0.0466838170	-0.6132066272
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## 1151	1	-2.22722927	-1.2472910699	-0.7264560251	-1.2385841207
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## 1155	1	-2.58160620	3.7422916377	-1.0815728956	0.8048119278
## 1156	1	-0.42118817	0.1119279081	0.7135703218	-1.9513762830
## 1157	1	-4.69448197	-1.4904047337	0.3993983711	-2.0000957201
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## 1160	1	-0.11183563	-0.7554550051	-0.5945411247	-0.0690287845
## 1161	1	-1.10908653	0.0961014806	1.6724555456	-2.0999327933
## 1162	1	0.13650989	0.4990837394	0.0292862801	0.3593881922

## 1163	2	-1.59988426	-0.9789954368	-1.3000726336	1.5025674329
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## 1165	1	-0.50560114	1.0221750048	-1.2952248094	1.9852997227
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## 1170	1	1.98452240	0.5739266474	-0.2439050452	0.5408691595
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## 1172	2	1.74218514	0.3587573392	-0.7916109214	1.1493590183
## 1173	1	0.88991058	-0.5231124264	-2.2553644298	1.1406522412
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## 1175	1	0.40310510	0.0860789994	1.5013814054	-3.1101233027
## 1176	1	0.87580745	0.4377184495	2.1826538760	1.5540628155
## 1177	1	-2.08968451	2.2533827079	-0.3684600209	0.7563050609
## 1178	1	-3.71748776	1.5675324188	0.3797923793	-1.4201156826
## 1179	1	2.53428029	-2.3586807117	-0.2929379635	0.3102277883
## 1180	1	-1.43664763	-0.5534156751	-0.0591715646	-2.2523433867
## 1181	1	1.06234110	0.2051060993	-0.9780875764	-0.0293476304
## 1182	1	-4.43206501	0.1717227688	0.7877691762	0.2182572150
## 1183	1	1.27036355	-0.2270667075	-0.2393300717	-0.3423608266
## 1184	1	0.05962276	2.1317320461	2.8605594638	0.3893598825
## 1185	1	-4.49423985	1.1093105027	2.7090685798	2.5249093038
## 1186	1	-3.67915883	-1.1132198619	3.4878346992	0.6862394598
## 1187	2	-0.72901681	-3.3630590511	2.0182178700	2.3450808910
## 1188	1	-1.85238704	0.4095219591	0.3327806620	-1.6195496996
## 1189	1	0.47275631	-0.8965283977	-0.3931204881	-1.4855692110
## 1190	1	0.83728728	0.1328544962	-0.1804260075	-2.1809374297
## 1191	1	-0.02014110	0.3141511841	0.1724087715	-2.4753618808
## 1192	1	0.79526208	-0.0300107250	-0.9879798785	-1.0659700869
## 1193	1	0.50998418	2.1695847812	0.1228964400	-0.0704981175
## 1194	1	1.37233997	-1.0960715715	2.4164398155	1.8462715616
## 1195	1	-2.37402893	3.5904674574	-0.7514343681	-0.0441916431
## 1196	1	-2.09144711	1.4264416772	-1.3267801621	1.8375523908
## 1197	1	0.27068787	0.1279609030	-1.4591721788	1.7799855386
## 1198	1	2.84634448	-2.0556468368	-1.5229701528	-0.5527352694
## 1199	1	0.67133302	-1.1890578137	3.1298113693	0.8793785070
## 1200	1	0.73289990	2.7595382470	0.4345173809	-0.6168218710
## 1201	1	1.00090107	3.0363154031	1.7721883541	-1.5937069426
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## 1203	1	2.07106944	2.2636750845	0.3048626496	0.4072706909
## 1204	1	-0.43776277	2.1312844599	-0.1042649329	0.4605103636
## 1205	2	-0.78232606	-1.4922435842	-1.1414368172	-1.1625304391
## 1206	2	3.03988158	0.3531745631	-1.1958850564	0.5724301974
## 1207	1	0.55127006	-1.9307864557	2.8397851726	0.1969235671
## 1208	1	0.78448559	2.0178131995	-0.5455158762	-0.5204451253
## 1209	1	-1.89562727	-1.2601589135	0.7038883861	-2.0914399472
## 1210	1	-0.72701442	3.2132788924	2.1253369289	2.0879419819
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## 1213	1	-0.63340175	-2.0028252064	-0.2780099291	-1.1772846747
## 1214	2	2.72072670	-1.3973085135	2.0310219404	0.7528256711
## 1215	1	-1.59253394	0.6275813363	0.9399969501	-0.4350526504
## 1216	1	1.20271306	-1.2441513593	-0.7718339312	0.3045453096

## 1217	1	-1.59657619	-1.7618351887	0.1392144152	-1.1383801067
## 1218	1	1.68651747	-0.1963283489	0.1509916841	-1.1267868651
## 1219	1	-1.79523677	-2.2135742821	-1.4590908550	-0.1957202704
## 1220	1	1.16246359	1.6837229374	0.0334157601	0.2472657459
## 1221	1	-1.32815742	-2.1611169951	-1.1131520896	0.3980639506
## 1222	1	-4.63096891	-0.8195773180	3.8870662930	0.1608001026
## 1223	2	3.32478445	0.7547977226	-0.0769385739	-0.8703201529
## 1224	2	-4.59037521	-1.4092236779	-1.9655507367	0.9650819558
## 1225	1	2.06608223	0.8136118970	0.8679214921	-2.1027383418
## 1226	1	-3.82343249	-1.0794664122	-1.4462776154	0.4558286541
## 1227	1	1.31320808	0.6432198038	-0.2757113669	-0.5623046403
## 1228	1	1.46630096	0.8221646319	-0.0330663645	-0.9444541138
## 1229	1	0.55385302	2.3137680673	1.0565735466	0.4562199308
## 1230	1	0.92648882	1.4710030743	-0.2595561868	0.4071803090
## 1231	1	1.71062285	1.1238784127	1.2274197399	-3.3180665576
## 1232	1	-1.51154480	0.8639399135	-0.6029641343	0.7057628514
## 1233	1	-0.69988841	0.3847957873	0.5304767983	-0.9247946491
## 1234	1	1.13446111	-0.6190538079	0.0410519910	-1.7103046791
## 1235	1	1.40734953	1.5049609621	-1.6201924988	0.1185950536
## 1236	1	-1.09557818	0.7690744300	-1.0119561739	-0.8267856294
## 1237	2	0.56317786	1.3811597805	-0.7572204914	-0.7312964667
## 1238	2	2.04214446	-0.6962164290	-1.8054095970	2.3118119971
## 1239	1	2.38080403	-0.6897485976	-0.5850644704	-0.2888376666
## 1240	1	0.89991778	-1.4064799430	2.1332596423	1.4621129046
## 1241	1	-1.07734974	-0.1643275495	0.5117910605	-1.3577989116
## 1242	1	0.34478094	0.0210934577	-1.0647264257	-0.0240368579
## 1243	1	-5.09610465	-1.5060899298	-1.0825465321	0.4223575426
## 1244	1	-0.13972000	2.3737057719	2.9030043460	1.4463811430
## 1245	1	0.35820802	-1.4882995481	-0.4227785870	-0.0091125477
## 1246	1	2.28818146	0.9765198362	0.9372463706	-1.6863405888
## 1247	2	1.83457736	2.1467596121	-0.0259128987	-0.7251589013
## 1248	1	1.13012111	-0.6746251388	-0.0431869216	-0.0746880749
## 1249	1	1.68530732	-1.0217401792	-1.0665217724	-0.6405582351
## 1250	2	2.51800518	-2.5352317747	-1.8150455595	0.9938995302
## 1251	1	1.00782590	1.5553133010	-1.4073502988	0.8179475405
## 1252	1	-0.59634434	-0.6189106323	-0.5323749565	-1.9277485398
## 1253	1	1.79007225	0.8398433473	0.2831624551	-2.1875451809
## 1254	1	-0.55360662	-1.0020985227	-1.1402110990	0.7073322570
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## 1256	2	1.47034781	-1.1222132129	0.4249047139	3.8508201877
## 1257	1	1.17831813	0.8051402096	0.0526721918	-0.7157688199
## 1258	2	1.31774331	0.6828249732	-0.8911442145	-0.3853067046
## 1259	1	2.72906180	0.6886319724	-0.2935290751	-1.5117602437
## 1260	1	0.42872652	1.0725118237	0.5189454597	-0.8561260300
## 1261	1	0.55761786	-1.2831785109	-0.3756231489	-0.3919152204
## 1262	1	0.97177833	1.8489437255	0.0010345842	0.7136067923
## 1263	2	2.34402082	1.1743471649	-0.8336511980	1.2682604485
## 1264	1	0.89299101	2.2771690318	3.7700763982	-0.5006431635
## 1265	1	-2.59092734	4.3996589689	-1.5742307409	1.2195266076
## 1266	1	-0.32174135	0.6752847280	0.7202053900	-2.3295166868
## 1267	1	1.07128291	1.3707928692	3.2842274615	-0.5467169468
## 1268	1	-1.38509808	-1.3639295669	0.2240369329	-2.2603869336
## 1269	1	-1.83878378	2.6497743873	1.9900140637	2.1635867531
## 1270	1	-0.06633874	-0.0332653092	0.2463825580	-0.9299651306

## 1271	1	1.22183522	-1.1454583761	-1.9228171656	1.0706392517
## 1272	2	3.54504920	-2.4725547831	-1.5468000547	0.3430539541
## 1273	1	1.18088858	0.2847738226	-0.3110263570	-1.4231061984
## 1274	2	3.42682170	-0.3007235826	-0.1024619000	0.1330808463
## 1275	1	-0.98377737	-1.7232380654	0.0433227477	-1.5509338461
## 1276	1	-0.82353708	1.5880693206	-1.5904446247	0.8640567735
## 1277	1	1.23101216	-0.5250543330	-0.2505007591	-1.1923190671
## 1278	1	-2.35986492	3.2010227916	-0.8084776331	1.4303120665
## 1279	1	-2.09621621	1.5988104070	-0.4216539165	-0.3030458894
## 1280	2	1.41105569	0.8624335767	0.0029394223	-2.1342590386
## 1281	1	-0.44214868	1.7056693665	0.4239128084	-1.4141610268
## 1282	2	-0.48131067	-2.9160138269	-0.7137916488	0.9988679290
## 1283	1	-0.69026873	0.0377589197	0.7835488289	-0.8470859761
## 1284	1	1.85505992	-0.0953595061	-0.4309453795	-2.0249670372
## 1285	1	-0.11816931	0.4803106972	1.6566585707	2.6593922329
## 1286	1	0.71108226	0.0446561100	-1.2970256354	1.6901529160
## 1287	1	1.31425331	1.3958164266	0.1699674794	-0.2030491427
## 1288	1	1.20645143	3.2274048289	0.7488545624	-0.2132191161
## 1289	1	-0.46493136	0.3416285598	0.5541975040	-2.0399195461
## 1290	1	-0.99428326	2.2448844588	1.7510457105	-3.3898141527
## 1291	2	0.55204245	0.8523560947	0.1063335950	0.1147368828
## 1292	2	0.40785358	-0.9897977260	-0.7135712083	0.5100561188
## 1293	1	1.12310777	0.1715618413	0.2351898669	-0.8289183975
## 1294	1	1.54816932	0.0411987762	-0.9583163320	0.7584323654
## 1295	1	0.62397168	1.4164414249	-0.8723382598	0.5150699299
## 1296	1	-4.21448524	-2.1534148965	-0.5278367170	-1.8270615409
## 1297	1	-0.18931579	0.6506365114	-0.9712487228	1.0756235698
## 1298	2	2.16143710	0.1727345730	-0.4122973970	-0.7022233249
## 1299	2	-1.12553204	0.1001842023	2.6485912364	1.5891374585
## 1300	1	0.08143473	2.2774449130	0.6317327851	-0.6123960291
## 1301	1	-0.74990950	-1.8104871482	2.6773556340	-0.6393608975
## 1302	1	-6.56431555	-0.3513370720	2.6010370152	1.1975842167
## 1303	1	1.32934226	0.0873000205	0.6642661559	-0.8588199769
## 1304	1	-5.24562040	0.3705897471	-0.4579478607	-1.0005625428
## 1305	1	-1.09531906	0.9764989614	0.2690266400	-1.7096367863
## 1306	1	-0.65346037	1.1786680417	-0.5330964237	0.2296352919
## 1307	1	0.22310841	0.2691983394	-0.7426259025	-0.6101693474
## 1308	1	2.05674469	-0.4316746522	3.1876880341	0.8047500197
## 1309	1	0.31811464	-0.4217942286	1.8676654971	1.2284390555
## 1310	1	1.54025382	-1.8650282445	-1.1987033734	-0.1936793382
## 1311	1	-1.93438695	2.0652542731	-1.1858843581	1.6991940818
## 1312	1	3.46243285	-0.9569599479	-0.0439543163	-0.0588597070
## 1313	2	2.72805409	1.3875232975	0.2182296911	0.2765122558
## 1314	2	2.21310459	2.3731597315	1.0103471043	-1.4808698310
## 1315	1	-1.06859476	-1.0248239699	2.6182042415	0.4972458470
## 1316	1	1.04221992	1.1657660556	1.6959029114	2.3029239118
## 1317	1	-0.83050210	-1.5594306127	2.3214844239	0.1973378341
## 1318	1	1.89662013	-0.5696676650	-0.3232034276	-0.1599575769
## 1319	1	-0.27801621	-1.6080520991	0.5251187202	-2.0435416640
## 1320	1	1.99265383	0.4549744337	-1.9219333078	1.2972987969
## 1321	1	0.72388039	0.0698167459	3.2110919980	0.3171198116
## 1322	1	1.35674620	1.0064223837	-1.1397442157	0.8081209764
## 1323	1	-1.76294526	0.8837763808	0.1273441915	-1.4522700134
## 1324	1	1.93082065	1.2655312217	1.4143049600	-2.1389668249

## 1325	1	0.35417620	2.3051328137	1.0436500042	-1.0126941086
## 1326	1	1.91925048	1.5653868758	-1.0278766020	0.7053277579
## 1327	2	1.14203092	-0.4997499506	-2.7459079536	2.2147417766
## 1328	1	-4.54785791	-0.8701406391	-0.8148323365	-1.6548396034
## 1329	1	-0.22660253	-3.2285600798	2.5936783643	-0.1314577152
## 1330	1	2.84364381	1.2503891110	-0.3297580403	-0.9965701997
## 1331	1	-5.42438742	0.1479862576	-0.9935196795	0.6276414600
## 1332	1	-6.16189688	-0.0095996559	-1.1564239555	0.1064374102
## 1333	2	3.31125728	-1.6217223861	2.3886793012	2.6659449633
## 1334	2	-1.05879346	-0.0260512837	2.0434047365	1.1170826619
## 1335	1	0.44770163	-0.9643241066	0.8448305019	-0.8571604813
## 1336	1	0.79352959	2.4525973605	0.3149528114	-1.7187554505
## 1337	1	0.15571357	1.5148549971	1.9842701304	1.7988771456
## 1338	1	2.81291157	-0.6106540303	-0.0015970728	-0.3792746557
## 1339	2	3.38835628	-1.5617102020	-1.7068223720	0.6998600928
## 1340	2	3.64640532	-1.6274281678	1.9822543101	2.4705447285
## 1341	1	-0.59378489	-1.6752368778	-0.6173813233	-1.1179574936
## 1342	1	0.13743975	0.7181953956	0.1959309941	-2.0606082283
## 1343	1	0.27421123	0.8945107711	-0.8606169755	-1.0092121688
## 1344	1	1.68499899	0.3278589735	-0.6106645669	0.2719911605
## 1345	1	0.31504021	0.7874033955	2.1765799872	1.6412477437
## 1346	1	1.46976366	-0.1512388640	-1.2998059226	-0.0552021623
## 1347	1	-1.04932079	-0.0727488045	0.2743889023	-1.5262929490
## 1348	1	0.48185348	0.1590071260	3.1703566741	1.2252173995
## 1349	1	-5.23682413	0.1201600853	-0.1082237596	-1.9306407658
## 1350	1	2.83528919	0.0557906461	-0.5545993127	-0.6704773100
## 1351	1	0.30339064	-2.4124281130	-1.0525989618	-0.2900245705
## 1352	1	-5.25143530	0.1325274957	-0.0917206537	-1.7286128773
## 1353	1	0.65262854	2.0722471773	-0.1184998732	-0.3696964996
## 1354	2	2.11254016	-0.9510835823	2.6954477772	1.5510455926
## 1355	2	1.71361663	0.4653519897	-0.3462039302	1.2110005036
## 1356	1	0.74359585	-0.1601869314	-0.2166327129	-0.4534890628
## 1357	1	0.08405824	-0.4144411927	1.6071270717	1.7253820932
## 1358	1	-2.67109074	1.2794706200	-0.7482110842	-0.2157891711
## 1359	1	0.76758051	-0.0636297644	-1.1578890771	-1.2100893045
## 1360	1	1.14921818	-0.5116943859	-1.7197179918	0.3577404116
## 1361	1	1.50866147	2.1464301097	-0.2595716124	-0.8966062617
## 1362	1	0.24136863	-1.0386787504	1.5863423718	-2.2386211099
## 1363	1	0.37399741	1.4596312376	-0.9656893712	0.6637016858
## 1364	1	-0.04641706	-2.0135131120	-1.0619127431	0.1236243358
## 1365	1	0.26015908	-1.6245763430	-0.8359950425	-1.1501002685
## 1366	2	3.38956320	-1.8943932466	-1.0414026425	0.8384660189
## 1367	1	0.64654521	0.1148899973	0.0789101305	0.9611510407
## 1368	1	1.79943407	-0.0078938949	-0.5597623687	-1.6397860800
## 1369	1	-2.01482455	-1.9715110420	0.0996831728	-0.8635731069
## 1370	2	1.61484474	-0.9216244725	-2.5633279096	1.5191100669
## 1371	1	-1.05364690	0.8289038695	0.4130999922	-0.2171251059
## 1372	1	0.96423473	1.5024858688	-1.1291658227	1.0078164766
## 1373	1	-0.45936188	-0.6176091612	3.5081201201	0.6692448319
## 1374	1	-1.69757505	-0.6665423763	0.6037747630	-1.6320959142
## 1375	1	-1.94669463	2.8228131836	-1.8105867231	1.9222965322
## 1376	2	2.24522170	-1.0336280369	-1.1118066843	1.1155967030
## 1377	1	1.07930052	1.2796855416	1.1828401297	-1.3190296538
## 1378	1	-3.02714557	1.3637712187	-0.9501032248	1.2587238760

## 1379	1	1.07556015	1.4668843595	-0.9247765279	-0.9807493174
## 1380	2	3.00599008	0.8615689038	-0.0884912550	0.0437194348
## 1381	1	0.86629120	-0.5031956452	-0.4174757297	-0.4132278432
## 1382	1	1.83301868	-1.1853328638	-0.1685925084	-0.6334294998
## 1383	1	1.71157684	0.0503458449	0.1032823904	-2.0578932702
## 1384	1	1.46275435	0.1389450375	3.2489534730	0.7655106243
## 1385	1	-0.90212660	-2.1408552660	1.7084094977	1.8917902558
## 1386	1	-0.32521906	-0.0703611921	0.0658036091	-0.6860698649
## 1387	1	0.37322466	-1.4844286866	-0.4271670270	-1.1081953276
## 1388	1	1.18499482	0.8261823537	0.0327554772	-1.4717162585
## 1389	1	0.63717589	1.8226464662	1.0598877785	-0.7621881728
## 1390	1	-0.83879514	-2.2026215632	2.8248057558	0.1621454221
## 1391	2	2.14827925	1.0123435072	-0.1538761465	-0.9490818430
## 1392	1	1.65293360	-0.1625837374	-1.4890417095	1.2790923964
## 1393	1	-0.62911616	-1.5245247361	-1.4342434031	-0.6112000463
## 1394	1	0.58953188	-2.3989649940	-0.7434144898	-0.7176318954
## 1395	1	1.33042875	1.2179644466	2.0726657596	3.3943447938
## 1396	2	0.05818362	-2.2115600243	-1.4593872709	-0.1686031581
## 1397	2	-0.27130090	0.4052681736	-2.3432319665	2.7314504723
## 1398	1	0.30257269	1.0502513900	-0.7414075772	-0.9479717489
## 1399	1	-0.64736080	0.8226719650	4.0921236807	-1.8050805753
## 1400	1	-1.54353160	0.3579108818	0.8798887989	-0.6525279505
## 1401	1	1.31205521	1.7792987820	0.1254238779	-1.6172316446
## 1402	1	-4.49286174	3.0655102243	0.0284721359	1.6964475349
## 1403	1	2.73280242	1.5776153408	0.2990336417	-2.6877203162
## 1404	1	-4.17096849	-2.7265066535	-1.5299396183	0.0141632226
## 1405	1	-1.84709101	-1.8916385505	-0.6241721578	-0.4513582411
## 1406	1	-1.73115048	-0.7679451293	2.4043553939	0.7789323818
## 1407	1	0.19297723	0.8686839775	-0.7430887489	2.1819547892
## 1408	1	1.59790590	-0.1143062358	-0.5202791562	-0.1931991810
## 1409	1	1.99848262	-0.8718286593	-0.4013704495	-0.9656295659
## 1410	1	-1.33376441	-0.4415593059	-0.1985195419	-1.6923290152
## 1411	1	-1.55956148	-1.5286465207	-0.4830713582	-1.2346032470
## 1412	1	2.13895373	1.6173376340	-0.0497451437	-0.2366640232
## 1413	1	0.01390867	-0.6919098030	0.1040097062	-1.8524321373
## 1414	1	2.02510538	1.5165985440	0.9950587390	-0.8656299802
## 1415	1	-4.49711062	-1.6189431486	3.3663443888	1.2392155173
## 1416	1	2.48136552	1.8961356250	0.8456397433	-2.8186079792
## 1417	1	-2.05458853	-1.5820349671	0.3563275683	-2.3880148499
## 1418	1	2.20313969	-1.0638338807	0.3742883750	-0.6464184879
## 1419	1	-0.66425648	0.0788122033	-0.4872888062	-1.0330897348
## 1420	1	0.44659766	1.7303196353	-0.0077066203	-0.0584297617
## 1421	1	1.24304146	0.4404311702	2.6246294821	1.0491961304
## 1422	1	-2.70746089	-0.5157871382	1.2668258908	-1.6249923787
## 1423	1	1.51071567	1.8326906555	-0.8380412782	-0.5192336271
## 1424	1	2.34904694	-1.0412818001	-1.0730734006	-0.5487033192
## 1425	1	-0.22669154	-1.3331227144	0.2818094155	0.1135248503
## 1426	1	-0.27878034	-0.2769989046	0.2532952771	-1.5022335896
## 1427	1	1.32871283	-0.4598494989	-0.6473033093	0.2243522404
## 1428	1	1.82368492	2.8236572534	0.7539334376	0.0668637762
## 1429	1	2.01738660	-1.1522373030	-0.7470776308	-0.8049314018
## 1430	1	-0.42744640	-0.5388961820	-0.6751336117	0.4157943858
## 1431	1	-3.65612184	-1.1027857064	-0.1862484556	-1.2810856583
## 1432	1	-2.23854179	-1.4780491659	0.3130855566	-0.9672058710

## 1433	1	-3.02074323	-1.4639064400	3.3051050038	0.9839580113
## 1434	1	1.34752264	-1.1883310824	2.7380110848	0.1265688504
## 1435	1	-0.13278591	0.2398353869	0.3299305097	-1.3106484783
## 1436	1	1.40935088	0.3528629611	-1.4565478767	0.7906506800
## 1437	1	2.79527516	-2.2311173760	-1.9220237577	-0.3814830841
## 1438	1	-1.87515223	1.3142365654	-1.4274570255	1.4964225318
## 1439	2	3.32384911	-1.4767429250	-0.1453740190	0.0596526978
## 1440	1	-0.74771560	-1.0679115794	0.3931238991	-0.7039562206
## 1441	1	0.31907170	2.8407871537	0.2524280143	-1.8080279783
## 1442	1	-2.29931073	0.5431687011	3.6906575810	-0.1756568584
## 1443	2	1.90161386	1.2897626885	-0.5304184378	-0.3290331543
## 1444	1	-5.04787092	0.2751569439	-1.0963405398	0.1813302707
## 1445	2	-1.39257631	0.3751233908	-0.7016182807	-0.7824826388
## 1446	1	-3.37455406	-0.6402073253	3.0375464944	1.2722517513
## 1447	1	-0.26375284	-1.3680374190	2.5906143412	0.0527063588
## 1448	1	-2.70447342	-3.0813643303	3.8494380211	-0.7511932198
## 1449	1	-0.17522402	0.3069072291	-1.0993307159	-1.2273616943
## 1450	1	2.06255028	-0.6806636638	-0.9173727002	-0.2443660013
## 1451	1	-0.33001859	0.8116226912	-0.0106314385	0.9151885189
## 1452	1	-0.60157648	-1.3859502793	-0.8118522215	-1.3937999644
## 1453	2	0.23505463	1.7331893909	-1.3078772370	-0.2172679177
## 1454	1	0.85620494	0.3202102624	-1.0092499836	-0.0076791496
## 1455	1	0.71218132	0.0490256535	-1.7240822598	1.7870764031
## 1456	1	1.47074399	0.0306115536	-0.8587015417	0.4246285702
## 1457	1	0.34066179	1.7294036934	0.2706008460	-1.0391913490
## 1458	1	0.64162160	1.5822453478	0.1621994843	-1.5550190021
## 1459	1	1.64789385	-0.0791621529	-0.7168580427	-0.9212807306
## 1460	1	1.10805113	0.9203042535	-0.2595216866	-0.5896720313
## 1461	1	1.55731593	-1.0360350772	-0.5880734752	0.0157043977
## 1462	2	-0.46355578	0.8577180441	-1.6481882481	0.9821768910
## 1463	1	-3.52685551	-2.1257676279	-0.7399545484	-1.2077657471
## 1464	1	-0.10679847	-1.1337169918	0.5151486703	0.1329867009
## 1465	1	2.39743033	-1.9438043887	-0.8255320584	0.7168711191
## 1466	1	0.64553418	1.2220013624	0.6278869308	-0.5166622824
## 1467	1	-0.96219517	0.6802687558	0.2538008491	-0.7741163776
## 1468	1	1.19142545	0.1543121503	2.4696960034	0.6472515377
## 1469	1	-0.94019919	-0.7695012784	-0.9901100966	-0.1011380924
## 1470	1	1.10525095	0.6593103218	-0.4468654849	-0.8404276186

##	PC5	PC6	PC7	PC8	PC9
## 1	-0.995514375	-2.3098364458	8.271827e-01	-2.2429958292	0.1590878527
## 2	-0.046812358	0.3837376377	1.261965e+00	0.8009257307	0.6901131331
## 3	1.312917422	-1.1643176010	1.383122e+00	-0.6835527364	-2.1447626021
## 4	0.364971547	0.1366298174	2.077320e+00	-0.7850778266	-0.3557756787
## 5	1.021034065	0.7010901723	8.561470e-01	-0.3485476172	-0.5373604668
## 6	2.366847556	0.8797883075	1.546636e+00	-1.7905920028	1.0369331883
## 7	-1.320280597	-0.5204533266	6.984807e-02	-1.4577937581	-2.7876349348
## 8	-0.185753509	0.1519196698	1.622386e+00	-0.6420093802	-0.2269419575
## 9	1.033656946	0.3266457789	7.823535e-01	0.4283390283	1.6695434802
## 10	0.797927750	-0.7884825763	-1.941559e-01	-1.5130600355	-0.6291139319
## 11	0.983609869	0.9548592441	-1.024861e+00	-1.4856543385	-0.7381289303
## 12	2.279836786	-0.4192084230	1.910568e+00	0.3884408594	-0.2062254723
## 13	-0.061892045	-0.8879361035	1.422816e+00	-1.5811885384	1.4993113995
## 14	0.523233445	0.1430850438	8.365969e-01	-1.9230924274	-0.1162481946
## 15	1.766415358	-2.2106779451	3.610055e-01	0.6438441151	0.6001297137



## 16	0.167818809	-0.5484109954	-3.028785e-01	-2.4097824275	-0.7547384577
## 17	-0.424827020	-0.5930265893	2.295272e-01	-1.7360530463	-0.2113216092
## 18	-0.063288722	-1.1794111477	2.063355e+00	-1.9554023641	0.2521552756
## 19	-0.547286570	1.0818325889	4.441686e-01	-0.6056811910	0.7286445367
## 20	0.833521066	0.6015466749	1.772256e+00	-0.9382609127	0.4527094371
## 21	-0.002461950	0.8464096071	9.256982e-02	-1.7750120020	-0.3811173054
## 22	-1.559336762	-0.2031345806	-1.350058e+00	-0.9191465388	-0.9510576484
## 23	1.268391461	1.1676648011	-7.539009e-01	-0.3131615887	0.3577974752
## 24	0.981821228	1.8412569657	2.892873e-01	-0.4452562021	0.4909652874
## 25	1.303696753	-0.8381263045	-2.717667e-01	-0.7372445605	-1.1873409986
## 26	-0.101864608	0.6076948821	1.618036e+00	-1.1204597621	-1.5412325020
## 27	0.749824777	-2.1237492497	3.706583e-01	0.4558647859	-1.3441724751
## 28	-0.998832901	0.5790688352	6.379625e-01	-0.7529019437	0.2736484706
## 29	1.796629680	0.6532723926	2.478728e-01	-0.6447351770	0.1100271189
## 30	-0.578797367	0.9449520629	-3.196659e-01	-0.7839340404	-0.4577723175
## 31	1.668825940	1.7732548142	8.681803e-01	-1.6352287499	-0.2382296300
## 32	1.295001445	1.1509638982	2.726728e+00	-0.1484651063	-1.3862834355
## 33	2.313295914	1.1114669302	-6.748428e-02	1.4226097084	-0.3432413229
## 34	-1.770012168	1.2636097149	1.141091e+00	0.2872240223	-1.6740297290
## 35	-0.051175226	-1.8759450431	1.040722e+00	-1.3578656244	0.0221713703
## 36	-0.705137893	0.8486985624	1.728286e+00	-1.4748561513	-1.6991532970
## 37	-1.149874658	-1.7108696962	6.188445e-01	-1.5453134616	-0.0645798374
## 38	-1.251337457	1.6463140873	1.931498e-01	-0.7670498584	-0.5855417322
## 39	-0.809437656	-0.3854781925	-2.682405e-01	-0.4693237368	-1.4000376165
## 40	-2.126732467	1.2562928641	3.242832e-05	-0.9506220177	-0.6636538378
## 41	0.653714056	0.9508543504	1.193468e+00	-0.2287501630	-0.3295708439
## 42	0.411180814	1.6114755267	9.606514e-01	0.3932825207	-1.4919830460
## 43	1.834555232	-1.8133196231	4.681296e-01	-0.9671184198	1.5315391096
## 44	-0.149411982	0.9812645290	1.865740e+00	-1.9768046053	1.2434662839
## 45	1.722906047	1.4901162565	1.681839e+00	-0.9521871366	-0.3276649763
## 46	1.048963183	-1.5935462362	1.487700e+00	-1.3188484169	-1.5085909414
## 47	-0.673942993	0.4211230041	-1.034677e-01	-2.1148031134	1.4742122177
## 48	-0.416963973	0.0599046905	-7.112741e-01	-0.7455122229	0.5783015331
## 49	-1.467937105	0.7398729530	2.658150e-01	-2.0409670228	0.4233117198
## 50	1.269859027	1.6828195723	2.678860e+00	-1.9715094607	0.1463874499
## 51	0.874306741	-1.8437960719	5.849895e-01	-0.6698189806	0.2898150660
## 52	1.840477211	-1.2874049718	1.573518e+00	-1.5974433087	-1.5731726549
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## 54	1.063541871	-1.0252073517	1.460764e+00	0.1017919159	-0.5045308043
## 55	-2.272980518	-0.9046225661	2.393206e+00	-0.7063642695	-0.1363426818
## 56	1.541223531	-0.6829266657	7.890600e-01	-1.7130209166	0.7187193658
## 57	-1.805599471	0.1335913156	-9.912798e-01	-2.1776755318	0.7356558282
## 58	0.468535077	-0.8856864364	8.804967e-01	-0.4252834703	-1.8100620711
## 59	0.203752227	0.6865404446	1.336677e+00	-1.3169449483	0.7168184968
## 60	-0.084203698	0.8056731857	3.078656e-01	-1.0180720380	0.8937189883
## 61	0.395062583	-0.0962645509	1.295813e+00	-0.4878552777	0.2060646496
## 62	2.108896783	0.1288255026	4.071193e-01	-1.7737033273	1.2274580511
## 63	-0.277529801	-1.6164800188	2.665269e+00	-0.1776102888	-0.8015600447
## 64	-0.556543374	-0.2451665070	-1.795643e+00	-3.7771449159	-1.1693735896
## 65	0.621818657	-0.4239474921	9.694462e-01	-0.4367763473	-2.0295528844
## 66	-1.563726706	-0.6459522076	2.899950e+00	0.9105095547	-0.9943699298
## 67	1.146095007	0.6145837388	-1.245776e-01	-0.5994200035	0.8202018128
## 68	-1.320539510	0.4758389926	4.956561e-01	-0.7426062709	-0.0778267896
## 69	0.182698378	0.1995117645	-3.803248e-01	-1.9590692572	-0.2449286896

## 70	-0.084512807	-3.0528628731	1.146827e+00	0.4602742433	0.1670900204
## 71	-0.990322381	0.8678558990	1.514016e+00	-0.8400405558	0.8985377700
## 72	-0.271529386	1.3119289805	4.076007e-01	-2.0394777240	-0.7214394825
## 73	0.562023132	1.7794439880	-5.167112e-01	-0.6555634437	-0.9130171473
## 74	-0.184643362	0.6553140650	-5.081826e-01	-0.7477659660	0.3239173353
## 75	1.006042994	1.3449548653	1.073316e-01	-0.2135739470	0.8699864486
## 76	0.913816686	1.3335598506	7.213862e-01	-1.1851659597	0.3314130131
## 77	0.192941761	0.7461140394	1.597705e-01	0.3276631203	0.0725621901
## 78	-0.221613929	0.2859430013	5.949879e-01	1.2383021697	-1.5145186754
## 79	0.353615378	1.6351277297	-5.566266e-02	1.1784898687	0.9383510472
## 80	0.633511463	-0.7880638864	1.102027e+00	-1.3253996592	-1.6246960492
## 81	0.945556162	-1.2515668049	3.376544e+00	-0.1146161333	0.5675589284
## 82	0.775090931	1.4581342373	1.064874e+00	0.7161085375	0.2996708530
## 83	-1.916799094	1.6107189992	6.012477e-01	-0.1722095814	1.5171844998
## 84	-1.166982006	-1.6083565697	1.677080e+00	0.5061683035	0.4689722377
## 85	0.795427615	0.8560824610	-5.977831e-02	-1.4041111936	-0.6441654880
## 86	0.585408328	0.8561313899	1.834383e+00	0.8902174928	1.2353457266
## 87	-1.622312843	0.8927515723	6.948206e-01	0.1152014199	-2.0217065214
## 88	-0.418983594	0.9796780682	-3.037999e-01	-0.1313438989	0.4697495833
## 89	1.071367325	-0.3082092236	-2.952974e-01	0.6059778016	0.8973122602
## 90	-0.148093700	-0.1851995119	1.313145e+00	-0.2184025213	0.1136333404
## 91	1.350192456	-0.1454241030	2.102768e-01	-0.4101277119	0.8545675739
## 92	-1.157874723	-0.5719217620	1.085765e+00	-2.8182033026	0.7564656100
## 93	-2.273879459	-1.0900598819	1.733447e+00	0.3798695267	-1.9092494516
## 94	1.674801315	-0.7689613918	1.216737e+00	0.2823391510	-0.8041416862
## 95	-0.401652682	0.4713139367	-4.893851e-01	-1.4378747663	0.3081016877
## 96	-1.046933115	1.1166093408	-2.161190e-01	-0.2546843669	-1.1211655947
## 97	-1.949026372	1.1233678131	1.214158e+00	-0.4280295053	-0.7268546798
## 98	-0.677640089	1.5145383240	4.034305e-01	0.4159437818	1.4973500557
## 99	-0.183687203	0.5332668143	1.346531e+00	-0.7026128566	0.6199413407
## 100	0.558388505	0.1059774257	-9.198101e-02	0.5312606731	0.8961145955
## 101	1.506998441	-2.1594527414	4.155873e-01	-0.6061108807	-0.6819657050
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## 103	1.502298816	-0.8915215676	1.717646e+00	1.1409759543	0.0241068781
## 104	1.329826804	1.2295564564	-2.413577e-01	-1.0913865059	-0.6164953012
## 105	0.395044317	0.6128315374	1.684538e+00	0.0153526169	1.4730140361
## 106	-0.401882992	1.2984830714	2.542468e+00	0.6184644599	1.7181906379
## 107	-0.695928705	-0.6197943125	5.346176e-01	-1.3096650487	0.3890274285
## 108	-0.012368203	-1.8781875200	1.844320e+00	0.4438071182	0.6675415255
## 109	-0.057719134	0.4863152904	2.692171e+00	0.6444444525	-0.1909728551
## 110	1.541174745	1.7027493133	3.975050e-01	0.3806943671	-0.1207285150
## 111	1.849595636	-0.1625736535	4.715075e-01	-0.6148637058	-0.3849840951
## 112	1.405110214	-1.9923244629	1.052826e+00	0.3505427121	1.2032271130
## 113	1.824285108	-0.2750365749	2.137378e+00	-0.0438986805	1.9064927923
## 114	1.279965081	0.1810754140	1.253858e+00	-1.0119472349	0.5917712689
## 115	-1.142910584	0.6088791098	5.684561e-01	0.3222778877	-0.2678886184
## 116	-0.908627829	1.8054900178	3.078823e-01	-0.9169925937	0.7218145344
## 117	1.797221275	1.6735935048	4.840928e-01	-0.0282139363	-2.3012669232
## 118	-1.452562521	1.8294339901	9.900828e-01	-0.2207538703	-1.4332892328
## 119	-0.577104490	0.9237922590	7.040027e-01	-0.6248668785	0.4516895590
## 120	-0.543789638	-1.1845567409	1.395350e+00	-0.3068597184	0.9192946043
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## 123	-1.654039694	-3.0590062622	-1.213890e+00	-0.8174688671	-0.6657376764

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## 124 1.351741843 1.0378749369 -4.408693e-01 -1.2221833518 0.4194268124
## 125 -0.724855246 -2.7454090431 -2.359263e-02 0.4086532115 1.0437404807
## 126 0.630013889 0.5441927572 8.930120e-01 0.4321531080 -1.2098662894
## 127 2.198866617 -2.3266958975 -4.020666e-01 -1.3895497476 -0.6049728050
## 128 -0.505091364 -2.0283133325 2.378429e+00 -0.3693089001 -0.0512349372
## 129 1.305405472 0.8479750214 1.248930e+00 -0.1645315162 -0.9197873802
## 130 1.255078544 -0.5832134429 -1.697865e+00 -1.9818266289 -1.3868707890
## 131 0.333408945 0.6339766294 -2.350670e-02 -2.1430099778 -0.1439075260
## 132 -1.139737574 1.6315064319 7.620357e-01 -1.2867844138 0.4317293019
## 133 -1.471169555 -2.9912130824 7.800729e-01 0.9445667244 0.4530405433
## 134 -1.835076235 -0.8008751707 1.534371e+00 -0.7898981264 -0.2243265870
## 135 2.134790249 0.1543221160 1.224645e+00 -1.3744963119 -1.0818306397
## 136 -0.966622110 -0.2986665348 -6.593540e-02 -1.3087927700 -0.4640056180
## 137 0.673164327 -0.7270338867 1.146517e+00 0.1621679915 2.5142725303
## 138 -1.148496583 0.6841870700 1.125144e+00 -0.3877094647 -0.3488782139
## 139 -1.240910410 0.3282876481 7.232008e-01 -0.2589367993 1.5628921026
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## 142 0.425948008 0.2430945024 6.314993e-02 -2.3486170237 0.1633201768
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## 146 -0.318021609 0.4834523259 -3.270644e-01 0.0037837623 -2.7440827894
## 147 2.176527676 1.6201156084 2.530261e+00 -0.5275031508 0.0384074355
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## 156 0.905522753 0.6425679221 2.767885e+00 0.6021673797 -0.2803791918
## 157 0.171139262 1.0347430577 1.071747e+00 -0.2814257335 0.5349994567
## 158 -1.305532027 -0.6487161230 4.080935e-01 -0.5910160265 -1.5201197570
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## 164 0.213416129 -1.7957953525 1.130724e+00 -1.3040001859 1.0922703204
## 165 -0.531247131 -1.0119899497 2.568291e+00 -0.7389366129 0.5153952510
## 166 0.348010890 1.7980334362 5.263362e-01 0.3052351658 -0.8195257806
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## 169 -1.380439088 1.8181977890 -6.211185e-02 -0.3948049370 0.8447478714
## 170 0.410257727 1.1002378867 -7.874755e-01 -0.2723281189 1.3038996262
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## 175 -2.169199243 0.0322150625 1.193945e+00 0.2470530385 -1.6772915302
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## 178 1.659485377 -0.3704268388 5.185372e-01 -0.1892717750 1.5120660908
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## 180 1.616619426 1.5211552542 9.413160e-01 -1.5409518630 -0.2937642730
## 181 -0.867143054 -0.9238901126 1.106669e+00 -1.0119284746 -1.0601317200
## 182 0.798229022 0.6147013281 -3.212178e-01 -1.1864924234 -1.7062508839
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## 184 0.985116813 0.3283021534 2.300644e-01 -1.0031599393 0.1511806961
## 185 -0.593441546 0.4026845654 8.168954e-01 0.0823914160 -2.1340512124
## 186 0.389126233 1.1344398435 4.400260e-02 -0.8993260646 -2.0791853259
## 187 0.852590360 0.6927098288 2.008470e+00 0.3331774732 -1.2948299106
## 188 0.873195310 0.9655069835 -4.429824e-01 -1.7703150916 -0.8126341781
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## 191 1.067794788 0.6505970346 -1.867974e-01 0.5959200625 0.4662364789
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## 196 0.246674134 -1.5594978765 -9.144042e-01 -0.9668244788 0.0768159157
## 197 1.755238849 1.6679562381 1.180269e-01 0.6461543542 -0.2798170591
## 198 -0.404881255 0.7561806751 1.378453e+00 1.0290566546 0.1684440816
## 199 -0.132966505 1.4299491332 -9.345722e-02 -1.2366161383 -0.1988856811
## 200 0.280363083 -0.1148229023 7.330725e-01 -1.3178495771 -0.4734046405
## 201 0.478744292 0.1175054246 9.859040e-01 0.7917962112 -1.0505882497
## 202 -0.840955717 -1.9338926411 1.285817e+00 -0.7244541262 1.8724320308
## 203 -0.526971707 0.2291635465 1.916699e+00 -0.3390262671 -0.5314582800
## 204 0.414474384 -0.7737136301 9.742973e-01 -0.8760848579 -0.8933338638
## 205 0.830943832 -2.8483429957 3.507588e-01 -0.6272552879 -1.6640025469
## 206 -2.367853524 -1.6572492317 6.362242e-01 0.1834330611 0.8414826857
## 207 -0.439096874 -0.7838964346 1.047775e+00 -1.5018697872 -0.5524740412
## 208 1.910241382 0.5581707175 2.591665e-01 -0.4798303242 0.3410698270
## 209 0.697881824 0.5448350896 1.059072e+00 -0.8859099128 1.9972090886
## 210 0.160793752 0.5637831460 -7.105674e-01 -0.1962224687 -1.4826452999
## 211 -0.160878366 -1.2312569731 2.102118e+00 0.8689998936 0.7833240208
## 212 1.260564377 0.7004075690 1.307109e+00 0.1794440786 1.2589080155
## 213 -0.533480409 0.9094258391 5.569487e-01 -1.7470400765 0.0538744212
## 214 -0.588480282 0.0533008158 -2.492641e-01 -1.5581117857 0.0866387248
## 215 0.847952793 -0.8352527434 -8.194220e-02 -0.4157237365 -3.9678185065
## 216 -0.739176891 0.8764402917 1.772576e+00 -0.3373876007 -0.3203239742
## 217 -0.756200660 -1.1488426187 -9.391437e-01 1.0498827010 0.0475646007
## 218 1.372827476 -0.6553403846 5.906433e-01 -1.6603044824 -1.0048406733
## 219 -0.234896930 0.7319248832 1.884815e+00 -0.2171759807 0.4588944319
## 220 -1.600180181 1.5162569718 6.334268e-01 -0.2134895120 -1.7484324381
## 221 1.777897919 1.4341068400 8.007890e-01 -1.1456604845 -1.2100619974
## 222 -0.170557949 1.0256268950 -5.825710e-02 0.5693042483 -0.8548219553
## 223 -1.065485258 -1.3078602587 2.075989e+00 -0.5958542452 0.6054510158
## 224 -1.370738373 0.5472428845 -9.156054e-01 -0.7197225575 0.9088195091
## 225 0.750376190 0.3080773381 7.382416e-01 -0.4014986535 1.1077339314
## 226 -0.494658668 1.6310765692 -3.126086e-01 1.1991927494 1.0588994902
## 227 -1.593015850 0.4544061532 -3.326737e-02 -1.5675561842 1.8898964385
## 228 -1.123455610 2.0501508962 2.279675e+00 -0.5866669576 -0.6072979607
## 229 -0.678396261 1.9427982172 -3.957708e-01 -0.2646130924 -0.3220070793
## 230 1.096466152 -2.1050036169 1.644383e+00 -0.5759783849 -0.3630093124
## 231 1.024253909 1.1276273395 7.780820e-02 -1.4284471777 -0.0705765277

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## 232	2.033927070	0.9083534333	1.458701e+00	-0.6904331726	-0.8798443617
## 233	2.134846809	0.3699237731	1.005716e+00	-0.8740972404	0.0272172196
## 234	-1.823428511	1.1690573340	1.526175e+00	0.4121314007	-0.1930410857
## 235	0.943930442	-2.8270945363	1.541271e+00	-1.2335915095	0.1198431405
## 236	-1.454737636	-0.1101892490	1.396730e+00	-0.9905815953	-1.2878592245
## 237	0.958655516	-0.6096254032	-1.105395e+00	1.1034449178	-0.9339336523
## 238	0.505513675	-0.6912954052	8.279920e-01	-0.3837311740	1.8274448390
## 239	-1.650343246	1.5650021723	3.523553e-01	0.4608285339	-1.0250067998
## 240	2.209032426	-2.1956055682	1.601830e+00	-1.0412434572	0.5277377347
## 241	-0.995565907	0.0290980136	8.760816e-02	-1.3215222090	-1.3556422205
## 242	-1.411195745	0.3430974122	-3.662563e-01	-1.1865394833	1.9669760235
## 243	-1.392635330	-0.5319854520	7.317806e-01	-0.0870474775	0.0682880409
## 244	-0.885872673	-0.1665158963	5.260597e-01	-0.1613446950	-0.3689579276
## 245	0.583351677	1.2038818609	9.767519e-01	-0.2426791007	0.1867695511
## 246	-1.200194584	0.7722252840	-2.307563e-02	-0.3654167086	0.2584537256
## 247	-0.068571771	0.4819461990	7.105221e-01	-0.6041650833	0.9561955797
## 248	0.751359315	-0.0674324610	-1.005771e+00	0.7561012895	-0.3033673512
## 249	-0.206386436	0.0837904014	-1.621943e-01	0.5066979371	-1.4708007408
## 250	-0.280185898	0.7395052444	-3.018360e-01	-3.2260635125	1.2671638657
## 251	-1.047945432	-0.8770048022	-1.980188e-01	1.1950580208	0.7145873869
## 252	2.078211853	0.8055253565	4.848959e-01	-0.9169111088	-0.9632531420
## 253	0.831477205	0.5846435991	2.722830e-01	-0.4467671026	1.5040795034
## 254	0.260628439	-0.5639325159	5.933006e-01	-1.1836041458	-1.5423675114
## 255	-1.858221877	0.6847256234	2.294062e+00	-0.9732147550	0.3008719432
## 256	0.153765066	0.8988683634	7.772551e-02	-0.9740043087	0.3260090935
## 257	1.269992175	-0.9744565308	6.169457e-01	0.9542016493	-2.1316420389
## 258	-0.358883959	1.5222054903	1.348411e+00	-0.8424939106	-0.5924099659
## 259	0.152096322	0.3954880310	4.387148e-01	-1.4573074703	1.4622273442
## 260	2.280655807	-1.6680715270	-4.661977e-01	0.9487174407	0.3158896370
## 261	0.761072208	0.4706942880	-4.263748e-01	-2.4834894759	0.4631035680
## 262	-1.088500706	0.3062849188	3.105588e+00	-0.4220029526	1.9953690618
## 263	2.202873759	1.2836108181	2.356133e-01	1.6187387307	-2.2246137141
## 264	-0.687548002	-1.3238249455	9.913986e-01	1.4107807941	-1.6034703967
## 265	1.812920403	-0.3960634179	-1.212348e+00	-1.3850697158	1.1505583909
## 266	-2.286899714	0.6409258528	-3.929940e-01	-0.6983017001	-0.2039664184
## 267	0.964913930	-0.1278291001	7.359269e-01	-0.4930210383	0.3057438343
## 268	0.906080453	-0.2644055619	-3.646547e-02	-1.1024608003	0.7399883084
## 269	1.638162946	-0.7682189762	1.683486e+00	-1.3302445217	-0.5779430884
## 270	1.947245031	0.7934428755	1.478102e+00	-0.7472565844	0.1077241168
## 271	1.830228573	-0.5525373449	5.867159e-01	-0.0815986008	-1.4286151703
## 272	0.829313936	-3.9813401141	-6.019801e-01	-2.2908678139	1.6114212808
## 273	-0.329353567	1.0902053370	7.553000e-01	-2.2649723204	-0.6921599241
## 274	-1.744903780	1.8326435610	-7.303400e-01	0.8474674790	0.0689203697
## 275	0.807205630	1.8262394893	9.992557e-02	0.8325485740	-1.0570871026
## 276	-1.691022263	-0.5867633992	6.773571e-01	-0.1015081847	0.9706620953
## 277	-0.667505787	0.4454521768	-7.597084e-01	-0.8952392772	-1.0261625289
## 278	-2.137577733	-0.4847847546	2.532778e-01	-0.3086314164	-1.7140843337
## 279	-0.637673028	0.8458818554	2.182400e-02	0.0431957416	-0.5883977628
## 280	-1.352512781	0.1405371758	-4.384671e-01	0.1032383206	0.2930129362
## 281	-1.567368703	0.0952477775	1.978705e+00	0.0175690774	-0.5319292084
## 282	-0.623634542	0.7377512157	-2.226961e-03	-0.7743473772	-0.1151972288
## 283	-0.134765242	1.2263406416	6.491566e-01	-0.1406549955	2.2204512790
## 284	0.832990761	-0.3555214213	1.624577e+00	0.1142689195	-0.5360985419
## 285	1.561489989	-1.1639147416	4.316567e-01	0.2835448135	-0.2364026796

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## 286 1.408335198 1.5483985965 1.269929e+00 -0.7417064815 -0.2706152367
## 287 -0.357590000 -3.6744581889 2.309960e+00 -1.4314831052 1.1006902489
## 288 0.074188471 -0.2354284017 -3.932283e-02 -0.3227421806 0.9471601108
## 289 0.398451571 -2.6057573215 7.443137e-01 -1.6092003935 -0.7224054552
## 290 0.442364298 1.9201246416 1.350045e+00 -1.3589407520 -0.5787271843
## 291 -0.328950008 0.1970697713 9.641674e-01 0.8025003141 -0.2428911150
## 292 1.287371350 0.9532958964 9.523008e-01 0.2663708208 -0.8709821538
## 293 -1.653196459 0.8699984901 -2.907830e-01 -0.4757857566 -0.6313531699
## 294 -0.021013909 -1.9963196396 1.698407e+00 -0.6649002712 0.5108564143
## 295 -0.769392125 -0.8692300711 1.631987e+00 -1.0955536697 0.7714113146
## 296 -1.647586812 0.0274005996 -2.311701e-01 -0.2360220778 -0.1790430619
## 297 2.108463924 -0.4629686599 3.137479e-01 0.4167683857 1.0596025062
## 298 -1.400013939 -0.1074551602 -5.347783e-01 -2.1236953826 -0.5744186989
## 299 -0.045074139 0.4234028975 -6.931019e-02 -2.0657466598 1.5138023178
## 300 -0.527544167 0.4486503189 1.005199e+00 0.5717383161 -1.0861385137
## 301 0.162515683 1.0666553423 -6.498254e-01 -0.0955442079 0.3931218853
## 302 -0.693578514 1.1087164637 2.133181e-01 0.4558452634 -0.5604900702
## 303 2.173885295 0.8417001573 -3.265938e-01 -2.3634283960 -1.4166709175
## 304 -0.921545817 0.5819885896 -9.212393e-01 -1.5766549481 -0.4048288800
## 305 0.220804916 0.8971363298 9.199030e-01 -0.4384776248 -0.3187661646
## 306 0.483704372 -0.0590983394 -4.858516e-01 -1.2017853421 0.8059928092
## 307 -0.778795631 0.2068487850 3.234757e-01 -0.6640866438 0.3939759660
## 308 -0.454202217 -0.5173702037 -3.123723e-01 0.3727920413 0.2809051952
## 309 0.766624776 -1.1260398137 2.619094e+00 1.5073540308 2.1028253960
## 310 0.058522165 0.3234222049 7.594340e-01 -0.7529921924 -1.1039650711
## 311 2.664492538 -0.2499837505 -6.111080e-01 0.1225686983 1.3880158463
## 312 0.710993596 -0.8123092853 -1.421953e+00 -1.0071738682 0.3009210881
## 313 -0.309361438 -0.9538119495 1.412053e+00 -1.0060882852 1.6762574904
## 314 0.187479232 -0.2016096325 -2.815518e-01 0.5771297149 0.1263284201
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## 316 1.770869428 1.6401662163 -2.187795e-01 0.6399221634 1.3435987692
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## 318 0.472065631 -1.5040838407 -1.157746e+00 0.1286310599 -0.2779052134
## 319 0.717569890 -0.4588796453 3.867868e-01 -1.2655836749 -0.8421005071
## 320 0.059860722 -1.0734504541 1.416089e+00 0.4273011373 -2.2333170121
## 321 -0.536335378 0.6610373870 9.317629e-01 -1.1957326289 -0.4147531152
## 322 -2.315361811 0.5630865728 9.512459e-01 -0.8522221789 0.0879293634
## 323 0.381934085 0.9007515273 -4.819173e-01 -3.2851397254 0.0351569109
## 324 0.285694413 -1.9444627795 8.263226e-01 -0.3407658797 0.1759939913
## 325 -0.149971840 0.0589767500 1.512243e+00 -1.1201803639 -0.9216338770
## 326 0.210525472 0.1764247490 8.904407e-01 1.0244603682 0.5338701770
## 327 0.748030625 -0.0426584362 1.696531e+00 1.7845403954 1.2383004913
## 328 -1.624266205 -1.1293661648 1.979649e+00 0.4178271641 -1.5041549485
## 329 -0.387479341 1.6479344429 3.818765e-01 -0.1651172575 1.6010866061
## 330 -1.018149354 1.2141501577 1.142147e+00 -0.1575026315 0.7506904059
## 331 0.258346840 0.3879104009 -4.220716e-01 0.6836241937 0.6436743283
## 332 -0.816586406 -1.0362434105 1.953705e+00 -0.1262382880 0.9614272424
## 333 0.360610576 1.0907548402 9.457302e-01 -0.6538965130 0.7806105948
## 334 0.203723003 -0.0077648310 -1.440215e-01 -0.1984791375 -0.3901380535
## 335 -0.424925786 0.3272884762 -4.613594e-01 -0.2666257718 -0.5817177105
## 336 -2.851185522 -0.7857027612 2.442179e+00 0.2099168700 0.2172352397
## 337 2.122169452 -2.7422256579 -6.489936e-01 -0.1340815501 -1.1869672759
## 338 1.769715983 1.0778708059 5.178743e-01 -0.3853310943 0.9094694731
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## 340 -1.506420264 1.0048084195 -9.434082e-01 -0.8986969072 -0.6530889531
## 341 -0.770119996 0.2979147749 1.988658e+00 -0.3422061699 -0.1990319680
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## 345 1.653742850 1.8585682347 1.804175e-01 -0.6633591503 -1.8008952611
## 346 -0.675915635 -0.5982468872 1.265931e+00 -1.4418070514 0.7406577033
## 347 0.986137717 -0.2080228822 4.128564e-01 -0.2637043199 -1.2868989650
## 348 -1.507427597 1.6354378286 2.421942e-01 -0.1523566295 0.0262382500
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## 362 0.737410689 -0.1194454384 1.213029e+00 -1.0641407280 -0.9231232599
## 363 -0.937608618 1.4169585211 1.022030e+00 -1.5850534714 1.7021381165
## 364 -0.691614301 -1.0685581077 1.195222e+00 0.2466011809 -0.4910183537
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## 366 0.170533507 1.4885061290 1.353341e+00 0.2958347701 0.5488073148
## 367 -0.039991577 -0.0708015390 -1.183145e+00 -0.1799158645 0.7097486623
## 368 1.482253357 1.0879228639 7.676834e-01 -0.8846311629 -1.0586443304
## 369 -1.854113307 -1.9673779737 2.794010e-01 1.2336239994 -0.3856804698
## 370 1.020271886 0.2813874236 4.898543e-01 0.0337552274 0.1627339515
## 371 -0.622215335 -0.9072930500 -8.505514e-01 -1.1773888198 0.0002414553
## 372 0.333535399 1.3028914786 9.584624e-01 -1.0751490480 0.3123820843
## 373 1.185193945 1.1726718106 -1.199369e+00 0.3687954533 -0.0869045057
## 374 0.714731802 0.5084404162 8.621844e-01 -0.2943830123 -1.3716078149
## 375 -0.352686315 0.8479061029 -5.334675e-01 -1.5898872950 1.7500779763
## 376 0.611408437 1.2951248094 1.185615e+00 0.1594067806 -0.3591290359
## 377 -1.569283015 0.3879799616 5.336253e-01 -1.7219814384 0.1302809321
## 378 -0.142973112 0.8975820255 -6.277880e-01 -0.0412813952 -0.3775867484
## 379 -1.143862037 -1.6412429757 2.870003e-01 -2.9252057696 1.2486536478
## 380 0.264601281 0.4382702032 1.501622e+00 -0.7071897029 -0.2906079008
## 381 -1.984486969 -0.0084605451 1.325903e+00 -1.3273420860 -1.4665283018
## 382 -1.439745601 1.1210672574 3.488240e-02 1.2401021964 -1.2090101030
## 383 1.082845120 -0.4302265460 2.444741e-02 -0.2651149463 -1.7449190780
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## 385 -1.223880789 0.1089422278 1.813338e-01 0.5869696507 0.4966133376
## 386 -0.006243919 -0.5075564870 1.292806e+00 -0.1587161002 -0.8482738772
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## 393 -0.660863438 0.7002197772 -6.980713e-01 -0.5722388118 -0.6972683541

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## 394 -2.322653080 1.1535636659 -1.064417e-01 -0.3938944947 0.3488705603
## 395 1.380374306 0.1934856871 -5.297575e-01 -0.3623312836 -1.2317473853
## 396 0.033347871 -0.0596528527 2.903653e-01 0.3462129112 0.9804197237
## 397 0.640541332 0.0039287655 1.079876e+00 -1.6904225658 -2.1925338260
## 398 -0.540432514 0.1807794090 5.924685e-01 -0.4017853053 -0.0077040616
## 399 -0.623779468 -2.0238693023 -2.504220e-01 -0.4812231685 0.4136097258
## 400 1.439521525 0.1503627157 -4.604379e-01 0.7956674151 -0.4473707627
## 401 0.049454526 -0.3149878245 2.502501e+00 -0.3508811316 0.4539152196
## 402 -2.817730188 -0.7215265631 -3.711780e-01 -1.9241689559 -0.3190879318
## 403 -0.490583658 1.9684126767 -5.809994e-01 0.1727426806 -1.8184078124
## 404 -1.269252942 0.9710003911 -3.549411e-01 -0.8584213901 -0.2095537023
## 405 0.820651067 -0.2801425785 2.455421e-01 -1.0731463727 -1.3876420238
## 406 0.935810693 -0.5823906966 -1.914838e+00 -0.4697896295 -1.3155330311
## 407 0.542076347 0.2273837107 1.916699e+00 1.6400123460 -0.2581641405
## 408 -0.902096984 0.4251827543 -5.317160e-02 -1.2708316695 1.4580358699
## 409 0.389668505 1.0899007257 2.910673e+00 -1.2151876674 0.3470109187
## 410 -0.832868539 -0.4619854229 -9.996629e-01 -0.4353286362 1.0188547932
## 411 0.786959554 1.0392467340 1.250218e+00 1.8989391685 1.1741679702
## 412 1.230195588 0.0529002641 -8.532737e-01 -1.1000362734 -0.1823860339
## 413 -0.269397645 0.4527295994 1.700143e-01 -0.5907330143 -1.3959845376
## 414 0.307418608 0.3810715112 6.417224e-01 0.0439297767 -1.2720495262
## 415 -0.638521561 -0.7494477062 8.327423e-01 -0.0203710358 -2.8025849456
## 416 -1.485437981 -1.2711453188 1.861348e+00 1.6559995811 0.6755788417
## 417 0.118433249 0.5183813448 3.027187e+00 -0.5237278605 0.2560920641
## 418 -0.105996722 1.2047578597 4.755814e-01 -1.5746555429 -0.3324867773
## 419 -1.672712292 -0.3666261629 -6.392240e-01 -2.5228758969 0.4968455349
## 420 0.897332648 0.4332037674 1.520782e+00 -1.5149306674 2.0338282213
## 421 0.318514370 0.7695774432 -1.441438e-01 -0.2221620671 0.2574823348
## 422 -0.013349144 -1.3852202236 -1.491793e+00 1.1849956051 -1.3941060883
## 423 3.432199157 -0.0448460093 6.829144e-01 1.3953652379 -0.1212614127
## 424 -0.674566654 0.2996206281 -5.013780e-01 -1.3229117196 -1.0449984046
## 425 -1.867038218 -0.4486810601 2.960972e-01 0.8153121995 2.3244266071
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## 427 2.357860837 0.8334576118 1.275251e+00 -1.4020471247 0.7062334919
## 428 -0.989295793 0.3444783833 -8.127648e-01 -0.8022676319 -1.6910683364
## 429 -1.326684897 0.4153121302 6.128456e-01 -0.7109087126 -0.3224359311
## 430 -0.346369836 0.6758353052 3.394196e-01 -1.9935554299 1.4267575321
## 431 2.173415118 -0.2224378138 6.050861e-01 1.5279172411 1.5853779484
## 432 0.864859220 1.3057328392 4.605641e-02 0.3864402743 0.4648278200
## 433 -0.124431126 0.5115428354 6.150820e-01 -0.5774772304 0.1187512557
## 434 -2.321081632 -0.0065514206 1.155104e+00 -0.3165569479 -0.5786374535
## 435 -0.304251248 1.7941257493 1.535916e+00 0.6939632541 -1.0784645772
## 436 0.939252109 -2.0628229668 1.936209e+00 -0.1127991749 -1.1546724900
## 437 -0.221156654 -2.2519065914 7.383972e-01 1.6786076559 0.8637421159
## 438 -0.328462532 1.2860741744 3.256473e-01 0.9602732397 -0.1740252693
## 439 1.247692100 -0.5994870878 1.436920e+00 -0.9432733994 -0.2063709130
## 440 1.143105384 -1.5070866423 -6.962325e-01 0.5670182161 2.1374373286
## 441 -0.039933278 -3.6983556005 3.183978e-01 -0.0435467714 -0.1554130710
## 442 0.524305037 1.1946576809 3.453026e-01 -1.4006338906 -0.9417805042
## 443 -0.173707806 0.9220983501 1.037483e+00 -0.9432679349 2.2865627010
## 444 1.805375298 -0.3604307542 6.782680e-01 -0.1858350710 -1.4306793443
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## 448 -0.672385559 0.5712985243 -7.131236e-01 -1.1746571987 0.1615234246
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## 450 1.234124885 0.5165869602 6.278242e-01 1.1538007589 0.6663173505
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## 452 0.352978254 -0.9885483637 2.092257e-01 -0.4090890096 -1.6079431550
## 453 -1.130950960 1.3909260089 3.484132e-02 0.8042867990 -1.2381163531
## 454 1.938242860 -3.4959460764 2.367868e-01 0.0152018597 1.0269953515
## 455 -0.451497142 0.2597199377 1.243314e+00 1.8764840926 -0.1117847360
## 456 -1.408721754 1.0143303401 -9.851888e-01 -1.1897866069 -0.4199197007
## 457 -1.967051290 0.4948430037 1.367655e+00 0.9200676839 1.3414378529
## 458 -0.638512801 -1.0876551398 5.977767e-01 -1.6896175582 -0.3081035182
## 459 -2.426861129 -0.7231885661 6.122750e-01 1.1401543179 0.4885851675
## 460 1.856690585 -0.1748735505 -2.276061e-01 0.2421436458 0.3523959533
## 461 -2.600205910 0.3220515652 -5.132712e-01 0.2370934190 0.2389115560
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## 463 -0.051527591 1.0226966022 -2.610205e-01 -1.3945340819 1.0821152894
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## 465 0.727810103 2.1788017996 8.711129e-01 0.4739889884 -1.1697655063
## 466 1.057000799 0.2826048685 3.206664e-01 -1.2301043471 -0.1859189579
## 467 -0.830863022 0.0804867849 -2.021311e+00 -1.6474812740 -1.0845957582
## 468 -1.433932769 0.6639636663 -8.731016e-01 0.6282625877 1.1518346721
## 469 -0.584550117 -1.2248734283 7.307492e-01 0.4844760533 -2.8297085759
## 470 -1.319545166 -0.2901272589 1.001531e+00 -1.3140951926 -0.1037898698
## 471 -1.605262284 0.5120333392 1.116253e+00 -0.1103602287 1.0656666744
## 472 0.279564608 1.3234256834 6.190288e-01 0.1662963928 -1.3499056632
## 473 0.215054360 0.0472697454 -1.148715e+00 -0.4911222591 0.2839704439
## 474 -0.627625425 -0.4782763573 1.328556e+00 -0.0843802255 -0.1973623939
## 475 -0.341130158 -0.9407963418 1.462816e-02 -1.0900333436 -0.0644340241
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## 477 0.598055762 0.1514576022 3.414993e-01 -0.0607838000 -1.4207575760
## 478 1.812737277 -0.1382839344 -5.354481e-01 -1.3582478952 -0.0518063134
## 479 -0.462651875 0.4233019786 1.128848e+00 -0.0168932537 0.5079141380
## 480 0.835857163 -1.6193161463 8.741373e-01 -0.9143392216 -0.0698315417
## 481 -1.615720302 -1.2381986010 -1.397348e+00 0.4657112845 0.9774864075
## 482 0.336190529 -0.4721769609 1.169073e+00 0.2617652321 0.9564269631
## 483 -1.498526008 -1.5820652660 -3.735669e-01 -1.8189247248 -0.3875681316
## 484 1.563032316 0.5237681876 4.134811e-01 0.0166301371 0.6764660551
## 485 -2.550979743 1.4593071280 -6.713554e-01 -1.4534216710 -0.1131334595
## 486 -0.643201294 0.4412907536 -6.814525e-01 -0.3265004184 -0.2455232396
## 487 -1.642914038 -0.0990153773 9.694919e-01 -0.9177341802 -0.2515526936
## 488 0.881158484 0.9492297135 3.683088e-01 -0.2846866996 -0.5367200067
## 489 0.724130624 1.0402121896 -5.104368e-01 -0.1596281066 0.2449228792
## 490 -1.265103487 -0.4156918374 1.578054e+00 -0.1147141658 0.2876356236
## 491 0.811258053 1.1219442582 4.060129e-01 -0.0027030609 -0.6240535732
## 492 0.277071896 -0.8494666418 6.254152e-01 -0.1921540076 -0.1990553703
## 493 -0.435076258 0.2385622542 2.544167e-01 0.9586713415 -0.3181463674
## 494 2.311190780 0.8937366519 -9.364240e-02 0.7324383342 0.8431209573
## 495 -2.176009885 -0.4824399255 1.286273e+00 -0.0833648154 -1.5429306566
## 496 -1.536342277 -0.8106513221 2.306103e-02 -0.2046658734 -1.4627651823
## 497 -0.397355546 0.9187313677 1.513701e+00 -0.1976134277 -0.9411200584
## 498 -0.704537811 0.6808974841 2.332408e+00 0.8955238080 -0.6093071380
## 499 0.433212263 1.1618857870 3.472753e-01 -0.7205791090 -0.2018148106
## 500 -1.402889701 1.2634919800 1.154788e+00 -0.4963696024 0.4671256888
## 501 -0.215112611 -0.8737264617 3.980088e-02 -1.8698075113 0.7683960414

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## 502	-0.906663436	0.6407046090	2.983477e-01	0.8142528268	0.0685793056
## 503	-0.482275961	1.3598456330	4.703402e-01	0.4828524069	-2.2175100163
## 504	0.639456814	0.9616414182	2.763398e-01	-2.3989495771	0.9783398359
## 505	-2.198483866	-1.5795238800	-2.721803e+00	-0.9660864043	0.2296105168
## 506	0.730167719	-0.3171286255	1.347312e+00	-0.6049420467	-0.0773995874
## 507	0.907610019	0.6520810603	7.879633e-01	0.0401046381	-0.2033760809
## 508	-1.498692872	1.5423214824	-2.974779e-02	-0.3073525947	-0.9461088849
## 509	1.412375963	0.2693847441	-3.879846e-01	0.1336594893	1.3925959062
## 510	0.754850763	-0.0544653502	1.673749e+00	-1.7811596419	1.4479387708
## 511	1.858076984	-0.3266817898	-1.124944e+00	-0.4016754965	-0.3270283044
## 512	-0.137660205	-1.1055503884	1.491172e+00	0.5064733120	-0.4587091446
## 513	0.989338028	0.7550342705	6.456201e-01	-1.3211472436	1.2979622468
## 514	1.235086508	-0.6804420470	2.819711e+00	0.6375738313	-1.4415963043
## 515	1.493318571	-2.1967785495	-1.206625e+00	-1.3943304950	-0.1401581701
## 516	0.403452505	0.5326104021	1.185115e+00	1.0704677158	2.1189198307
## 517	-0.128494302	1.2221207408	-1.535934e+00	-0.5402043244	-0.9350581346
## 518	-1.755563791	1.6451435057	1.275383e-01	-0.4624255624	-0.3919252061
## 519	-0.850610599	1.3496428271	6.250609e-02	0.8624659910	0.5971934596
## 520	-0.016478235	0.6698874883	2.960484e-01	0.5643713934	1.6794338585
## 521	-1.028118211	1.5539694059	5.822536e-01	-0.8742332867	-0.3658495250
## 522	-2.750187561	0.3275510171	2.510585e+00	-0.3660072831	-1.5437190889
## 523	0.228536076	1.5524284633	4.343367e-01	-1.1361125750	0.3602426689
## 524	0.577840101	-1.4168266206	1.172368e+00	-1.7312791963	-1.6678259357
## 525	2.194330746	1.0999950833	7.316974e-01	1.3319444423	-1.6125755614
## 526	-1.036759054	-0.2112492857	-8.844959e-01	0.5633119718	0.2223240335
## 527	2.917905855	0.6916031570	-7.075702e-01	1.6912807335	-1.5560683106
## 528	-0.028284306	1.0357207725	1.279120e+00	-1.1692637614	0.7832087602
## 529	-1.656570577	-1.5263174171	8.611456e-01	1.4150540420	-0.5111393550
## 530	2.273693018	1.7606119751	2.910431e-01	-1.0737345493	0.7724853403
## 531	1.289295382	0.9661796055	-2.303216e-01	-0.4663125103	-1.0740955766
## 532	1.100106765	2.2834200902	1.393089e+00	0.3888418195	-0.2673903170
## 533	-0.282965927	0.7881531891	-2.927066e-01	-0.8742637113	-0.2898515036
## 534	-1.612732437	-0.9975883017	6.573750e-01	0.7245251806	0.1249652044
## 535	-0.465086679	1.6368615095	4.567976e-01	-0.8622932306	0.4163892634
## 536	0.363667568	-1.3309493593	-1.936235e-01	0.1114804562	2.2935961794
## 537	-1.399409468	0.3574991034	-1.770649e+00	-2.4350113607	-0.1084011939
## 538	-0.311132251	0.0423281296	5.347962e-01	0.5559350394	0.2610998905
## 539	1.878466464	0.4099513842	6.500846e-01	1.7800346518	1.3451945376
## 540	-1.794130517	0.6849352888	-3.444448e-01	-0.6287248429	0.0330836178
## 541	1.210429680	-1.8907515564	-2.248579e-01	-0.0171551167	-0.8623403259
## 542	-0.538449037	0.0881616584	-1.614924e+00	0.0036163493	0.9001798165
## 543	0.550918633	0.9686235576	3.576220e-01	0.5725462497	-0.5344970364
## 544	1.810916982	0.3825121472	-4.985379e-01	0.8332643805	1.9486834751
## 545	-2.063143680	-1.4466957122	1.554175e+00	-0.1755792124	-0.4863121307
## 546	-2.378719819	-0.6871450791	-9.610879e-01	-1.5421828525	0.8775115947
## 547	-0.825829104	2.2451050068	-7.464953e-01	-1.5493774248	-0.3300898482
## 548	-0.286338535	-2.2808253376	1.116867e+00	-1.2864392019	-0.2766408158
## 549	-1.757437243	1.2074281019	1.277409e+00	1.4279160051	1.5978818485
## 550	2.102206212	0.8402948422	-2.297445e-01	-1.3321952814	-1.0303112317
## 551	1.434304937	0.6074678296	3.976458e-01	-0.0202907718	-0.9416078768
## 552	1.979225344	-0.0009901869	-5.150257e-01	-0.6565293745	0.3367251019
## 553	0.963827824	0.2145060529	6.132584e-01	-0.7365373675	0.5477273750
## 554	0.555482887	-0.0654628870	2.304734e+00	0.0282179023	-1.1461052380
## 555	1.797915143	-0.1471133716	-2.804988e-01	0.7368150940	-1.2345420809

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## 556 -2.209088721 0.1994614732 3.060098e-01 -0.7733090775 -0.5638802095
## 557 1.433946572 1.6669820213 6.053013e-02 -0.4720686808 0.6414246538
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## 559 0.691674924 -0.6677482041 -7.210933e-01 -1.0440286197 2.4389234844
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## 565 -0.534329581 1.2074963487 6.507696e-01 1.5457893872 -0.2557438896
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## 572 0.353620478 -0.1030011820 9.896027e-02 1.2268272579 1.7089852756
## 573 1.032038027 -0.5224388385 -7.978241e-01 0.5373450630 -0.0276132422
## 574 -0.470955354 -0.7548317262 2.963597e-01 -0.2456703019 -1.7462521797
## 575 0.642995495 1.5629301616 -9.180030e-01 -1.3126614247 0.8851583299
## 576 -1.240927051 -1.4442235777 -1.169799e+00 0.9181925434 -2.1675145939
## 577 -1.431387621 1.0639812600 1.009736e+00 0.5272259655 0.9733187753
## 578 -0.565604570 -1.6575372134 5.050631e-01 0.5149542358 -1.4716246903
## 579 1.408487138 -0.7137755057 -1.306522e+00 -1.3364158734 -0.1178426815
## 580 1.181678602 0.7953429960 -1.752392e+00 0.3765556760 -1.1095437071
## 581 -1.826564500 0.2279508027 -9.145811e-01 -0.9472360282 1.7731721990
## 582 0.043789550 0.3578339276 1.572689e+00 1.8997190798 0.7842642117
## 583 1.135151299 1.0189553562 8.431322e-01 -0.7040806675 -1.1157455656
## 584 -1.922680878 0.2622609374 -8.405553e-01 -0.6376813834 -1.0703159065
## 585 0.520524270 -0.1859040642 2.718746e-01 0.1200823866 1.9693341781
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## 589 -0.262668280 1.6063856876 5.585163e-01 -0.3121667491 -0.2156507157
## 590 1.160291044 -2.4955253271 1.016642e+00 0.1137824396 -0.7571653427
## 591 1.154599780 1.1420589300 6.077424e-01 1.0930342774 0.1832699728
## 592 -0.806857962 -0.9063380982 -2.022553e+00 0.5570229265 -0.3134488551
## 593 0.820060957 -0.3793634908 2.243097e+00 0.8308394343 -0.6179130360
## 594 0.524566388 0.7568369237 2.350664e-01 1.3799710941 -1.0461561451
## 595 -0.371512961 0.5934368534 -5.225043e-02 -1.3897938432 -0.2156778109
## 596 1.280665419 -2.2794586333 9.861940e-01 0.5264271735 -0.0033839964
## 597 0.587321000 1.3516908524 6.579533e-01 -1.7425459123 -0.0813853107
## 598 -0.113192290 0.3457606937 2.268283e+00 0.3243789726 -0.6616711772
## 599 0.730385853 -0.1700402400 1.835433e-01 -0.8704381332 -0.1195174900
## 600 2.075030905 -0.0226991171 1.742147e-01 0.3029961890 0.8630295916
## 601 0.992646093 0.1811742520 -4.270644e-01 0.0912910631 -0.3028008295
## 602 1.090815923 1.4193807344 -5.711626e-01 0.3662216462 0.9406929438
## 603 -0.069408813 0.6020268708 1.523849e+00 0.9835059782 -0.7187355675
## 604 0.688084069 1.2282039605 -9.974309e-01 -0.4095516571 0.4138444827
## 605 0.795645651 -0.8768128905 -1.414278e+00 -2.1459885446 0.3085368987
## 606 0.883302012 -0.6592466795 -7.332813e-01 0.0411894332 1.4657548078
## 607 0.611998113 0.7854133694 -7.875419e-01 -0.6062551538 1.1137463179
## 608 -1.930357991 -0.3493127665 2.394449e-01 0.3419206353 -0.4221298820
## 609 -0.154207593 -0.2594276815 1.257543e+00 0.3174167215 0.3291916387

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## 610 -1.339359384 0.5027803446 -1.257448e+00 -0.3234407438 -0.3743751496
## 611 0.097921614 -0.4504924780 2.285315e+00 1.7100015621 -0.6264378654
## 612 0.490093255 1.8154626602 1.835293e-01 0.7067077535 -0.8904981972
## 613 -1.317795281 -0.3308144027 -1.035465e+00 -0.9984993647 -1.1224797397
## 614 2.248110312 -0.0673569910 4.456580e-01 -2.2064239317 1.4803270768
## 615 0.317618114 -2.5028776065 5.784440e-01 0.9801003380 -0.8114666656
## 616 -0.533731150 1.1768044799 1.179152e+00 1.0938348603 1.2793682342
## 617 -0.713651704 -0.3992532631 -9.215936e-01 -2.2225993121 0.2717134978
## 618 2.000802384 0.7015799924 1.926546e-01 -0.9484578350 -0.5829184626
## 619 0.989476696 0.8062406338 -1.095682e+00 -0.5958024015 -0.5480045786
## 620 -2.000787489 1.3356498314 -1.475129e+00 0.3765527871 -0.8882017506
## 621 1.094092275 -0.0678432264 5.511845e-01 -0.1236416568 -1.4955891918
## 622 -0.497345066 -0.8338432655 1.514791e+00 -2.5717034755 0.7232982639
## 623 -1.682032373 0.2155471040 -7.806822e-01 -0.9413351110 1.9660958121
## 624 -0.769709245 0.0873917681 -4.646237e-01 -1.0841039933 1.7627771978
## 625 -2.485799033 -0.1895813264 9.661833e-01 0.2990213123 0.0192623708
## 626 -2.331511685 -0.8246979156 6.493314e-01 0.0085094555 -1.0894372403
## 627 -0.214375675 0.6776759815 -2.535858e-01 -0.7090201947 -1.0447462748
## 628 -0.771097474 0.5933165071 2.211920e-01 0.7074942088 0.4093499624
## 629 -2.721580252 -0.0570686221 4.025117e-01 1.0633227413 0.8683790059
## 630 1.955023495 1.0415761794 1.199931e+00 1.0612622675 -0.1235606764
## 631 -0.626299400 0.1688362759 1.891111e+00 0.6681582076 1.0600432990
## 632 -0.146833098 -0.2960332225 1.070864e-01 -2.8505312485 0.8844786549
## 633 0.662252459 0.4220828718 2.574809e+00 -1.1821324910 0.1992163908
## 634 2.192701977 0.3631007451 -1.187882e+00 -0.7693761886 -0.2095351756
## 635 -0.635379855 -0.1377893639 1.446686e-01 0.0464503291 -1.9370236858
## 636 0.428983443 -1.1574455448 8.753677e-01 1.0210897222 -0.4831000520
## 637 -0.300198533 -3.7430013642 -1.351241e+00 0.1397773094 -0.0447847054
## 638 0.743369305 0.5185150820 8.530064e-01 0.4499601052 2.3466563562
## 639 -0.646119216 0.4017103054 -5.112868e-01 1.4339353800 -0.3853783413
## 640 -0.373314874 1.0567125373 2.149923e-01 0.0188327896 -2.4217776683
## 641 1.749781037 0.3179671099 1.862309e+00 -0.9189094317 2.5331351211
## 642 -0.718310707 0.5968036122 9.722112e-02 -0.3278171662 1.0894603374
## 643 -1.510066416 0.4899068925 -1.171714e+00 -0.2946794280 0.2471625258
## 644 0.241827007 -0.6144551373 8.214919e-01 -1.6163514579 -0.1882464676
## 645 -0.453329025 -0.2880004064 1.363858e+00 -0.6725782468 0.4981693182
## 646 -3.082812838 -2.2991017713 7.352661e-01 1.6661860925 -0.6961795966
## 647 -2.425718834 1.1464196418 3.840181e-03 -0.1558514200 1.1835925644
## 648 0.901975132 -0.4070429094 -7.182768e-01 0.7686209316 -1.1497076345
## 649 -2.085358373 0.7964020674 9.003657e-01 0.2691989239 0.0509044716
## 650 0.249041997 -0.0096084798 -3.074595e-01 -0.1567410469 1.1350865277
## 651 1.082062256 0.5168156771 1.280225e+00 1.0106011225 1.4969743840
## 652 -1.609817182 -0.1435953176 1.364187e+00 1.0245104624 -0.0342306902
## 653 -0.501751103 -0.3823408796 1.300415e+00 -1.4923522245 0.7589999692
## 654 0.618778196 -0.5051112367 -1.436350e+00 -1.4096619995 0.9884179065
## 655 1.335921239 0.5547431242 1.463557e+00 0.2022797245 -0.0477704218
## 656 1.805930231 -0.2371188454 1.399195e+00 0.8942318327 -0.7142018697
## 657 0.928138307 -2.8202527158 -8.399002e-01 -1.8485561100 1.6870010283
## 658 -0.498237230 0.5511504024 5.467720e-01 0.6175843015 -0.7649057704
## 659 0.850466567 -1.4928974834 2.401580e-01 -1.6498326253 -0.1727200330
## 660 -0.807666659 1.5239582700 -1.162291e+00 -0.5942772672 0.8450751667
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## 663 -0.233120961 -0.2941550707 4.565286e-01 0.6802381388 -0.2018932251

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## 664 0.615873741 -0.3042531284 9.252876e-01 -0.1525145357 -1.4213396195
## 665 1.646105753 -1.2435809727 1.426487e+00 -1.3877122605 0.1646665290
## 666 -1.384669454 0.4355667223 1.005997e+00 -0.3909507107 0.0040036730
## 667 0.331586216 -1.2648513635 1.057564e+00 1.4257043799 -0.4551767150
## 668 0.249481321 -3.1107825221 1.184431e+00 0.1332532335 0.7260658550
## 669 -0.866515021 0.4103265156 -3.238960e-01 -0.3974342297 -1.0269086621
## 670 0.713986786 -2.4724676547 3.265977e-01 -1.9579082640 -2.0145471539
## 671 0.527020387 1.2311378796 -5.944015e-01 -0.4649384978 0.4031408086
## 672 -0.020753718 -0.0590342164 -1.340564e+00 -0.2360971634 0.4612491212
## 673 -1.095561044 1.6956707414 -8.771917e-01 1.5590990649 -0.9299355563
## 674 0.663899518 -0.5708747523 -7.830630e-01 -1.0658563389 -1.7194549222
## 675 0.227558759 -0.3664101196 1.932651e+00 0.7851316236 -2.2823124047
## 676 -0.867276003 0.6497506003 -7.832470e-01 0.7815392186 1.5917355819
## 677 0.873144533 -1.2373110007 2.601351e+00 -1.0057282344 -0.3090787537
## 678 1.121623390 -0.0636184890 -3.749332e-01 0.2845725305 -0.8628943635
## 679 -1.239262429 0.1046074960 1.399872e-02 -0.9594179840 -0.1010789939
## 680 -1.302497681 0.1425105158 1.894143e+00 -0.0946114996 0.8542783869
## 681 0.618029779 2.1213423962 -7.256318e-01 0.7989471037 0.2682491223
## 682 0.469559946 0.7323805221 -3.309511e-01 0.2837138870 -3.1024309748
## 683 0.491606439 0.9599902644 -5.671915e-02 -0.0878333576 0.1740750994
## 684 -2.356998515 -2.8699625883 1.338439e+00 1.0576935419 -0.1414712154
## 685 -2.353100350 -0.2743249055 -9.204731e-01 0.3875513571 1.3494832591
## 686 -0.068688401 0.9191626491 -6.445121e-02 0.0882271673 -0.2192270733
## 687 2.798176801 -0.5666691491 -4.829962e-01 -0.6565001372 -1.6233952969
## 688 1.529157859 2.0123352874 -1.054218e+00 -0.5265944050 -1.1246568566
## 689 -0.480716539 -1.5887758950 4.911261e-01 1.6671231355 -0.9856723263
## 690 1.833746123 -0.8487704080 -2.181180e+00 0.2723733035 -0.9939737491
## 691 1.447490843 -1.6574645177 1.914873e+00 -0.1813747517 -0.2476845816
## 692 -1.143941351 -0.6523409220 1.871020e+00 -0.2113146331 -0.6040441448
## 693 0.642036016 0.4353805210 -1.598205e+00 0.2210946705 -1.6266757776
## 694 -0.816149825 -1.1740416640 1.170998e+00 1.6607176826 0.2349394304
## 695 1.918404465 1.4214012580 3.915219e-01 0.9111056534 0.9485598658
## 696 -0.548615052 -1.7723279411 -5.266844e-01 -0.7500349277 1.8916165662
## 697 1.632577618 0.7961671551 1.745536e-01 0.6116490486 1.2554531682
## 698 -1.925473511 1.4010540598 8.446756e-02 0.1298874597 -1.0673308046
## 699 -1.428536182 1.0720126724 -5.714712e-01 -0.7688902502 -0.9898334034
## 700 0.417688641 0.5326109329 1.178373e+00 -0.3029630225 0.7289591135
## 701 -0.102183504 0.4960207359 -2.010506e-01 2.0131280990 -1.0686789109
## 702 -0.918541595 0.8062468468 1.275543e+00 0.4109000685 -0.9602267936
## 703 -1.477017929 0.3914784826 -2.508792e-01 1.1552129753 -0.4107615999
## 704 -0.698318307 -0.3195337507 6.447137e-01 0.4349070671 0.3470856330
## 705 -1.969139397 0.7249243139 -3.938157e-01 -1.0341114588 0.6004410078
## 706 -0.662754624 2.0907610162 -8.937639e-01 -2.5207212333 1.1603941426
## 707 -1.880598197 -2.0754937690 -2.832783e-02 -2.2874149378 0.2152734498
## 708 0.220999133 -0.1310632188 5.316586e-01 -1.7024568042 -0.7301491529
## 709 -2.338142181 0.4950784871 1.353081e-01 -0.7591017543 0.7745670518
## 710 0.687846563 -2.7209513113 4.169644e-01 1.1604269670 0.4494869663
## 711 0.395885885 0.6392988433 1.507576e+00 0.4709009372 2.2097253761
## 712 -0.073781314 -1.3200350891 -7.466265e-01 0.5690337887 -2.1923135898
## 713 0.513883322 1.4074008060 -9.206328e-02 0.9246686016 0.6313324115
## 714 -0.241222382 0.6789627535 2.933012e-01 -0.7743332576 -0.8874932212
## 715 -1.738656910 0.7041787774 1.612378e+00 -0.6735872786 -0.3212740273
## 716 0.959587746 -0.4258194196 -3.097712e-01 0.0078265213 -1.3878272568
## 717 -0.477868500 0.4858783861 -3.810378e-01 -0.2414558331 0.6788266460

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## 718 0.359018488 0.2671503262 -4.145128e-01 0.1097715689 -1.7958781228
## 719 1.214518890 -1.7118920255 7.520031e-01 0.4965634754 0.8944330449
## 720 -0.785232807 0.0532353548 1.352294e+00 -1.3985249613 -0.1898198095
## 721 0.279372330 -2.6340847766 -7.100206e-01 -0.0752108038 0.6558784561
## 722 -0.231180521 -1.0510748299 4.967436e-01 -1.4976485491 -0.2203366747
## 723 -0.057313423 -0.0458474828 1.193395e+00 -1.0761801939 0.4871005947
## 724 -0.271832091 0.4906168857 3.499667e-01 1.1741993549 -0.4512821801
## 725 -0.393822884 0.6822782123 1.578373e+00 2.7533476433 -1.3511986898
## 726 0.123705290 -3.1894977902 8.307201e-01 -0.3050509141 -0.6252242899
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## 728 1.087119567 1.0611735279 4.214991e-01 -0.5346065967 2.6074043137
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## 730 1.040969572 -1.9196338205 3.345076e-01 -0.4228763247 -0.6756684027
## 731 -0.437128649 -1.1088797691 -5.650441e-01 -0.0353701698 -0.8775283568
## 732 0.576772898 -2.1814099294 -5.647868e-01 0.8756551325 -2.1933283540
## 733 1.805849353 -0.6464375235 -1.280407e+00 1.7361414357 0.1210970644
## 734 1.211037642 1.6042756119 1.488649e+00 -0.7875531014 -0.2087640541
## 735 1.348704476 -0.7731581800 -1.473558e+00 1.3385803040 0.4815445932
## 736 1.997144589 -0.0672768677 -1.066231e+00 -0.7832232573 1.7139815887
## 737 1.730862027 0.7157083471 -4.858698e-01 0.1344842671 0.3883522790
## 738 0.823526090 2.0723231165 3.979863e-01 2.0643466564 -1.1575569389
## 739 0.924643031 0.5544361814 1.273457e+00 1.1686857771 0.0505451293
## 740 0.071491212 1.0701099053 -2.751514e-01 -0.8816382009 1.0299320902
## 741 -0.028117875 0.7317928753 7.701566e-02 0.2034844411 0.1482662610
## 742 -1.099347660 1.6701355409 -1.000137e-01 1.3279249876 -0.0227651466
## 743 0.530581882 1.4781980908 -6.862061e-01 0.1234578641 1.2773986858
## 744 0.204809250 0.3825693573 7.842719e-01 1.7676995824 0.2933021846
## 745 1.174139965 -2.1379751285 -5.259029e-01 0.8890599677 -0.1823934290
## 746 0.973456181 -1.5421397767 -1.974614e-01 0.0203742370 0.0482555321
## 747 -0.844652253 -0.5308165226 9.615967e-01 3.0388182685 1.6576428652
## 748 -1.379301662 0.3246902279 8.352559e-01 -1.6029100537 1.1678197927
## 749 -0.675318030 -1.3319196541 -1.302816e+00 2.1305583966 0.4620848259
## 750 0.036418140 -1.3136051649 9.990306e-01 2.3441345330 0.7613140128
## 751 -1.738842826 -0.7286137302 1.476086e+00 -1.5192329897 -1.3435182300
## 752 -0.955315480 0.6203962197 -7.887240e-01 1.1506734524 1.2066385620
## 753 2.844326675 -1.8619061570 -1.617827e+00 -1.9269991006 -0.9866888074
## 754 1.270180805 -1.0343997141 -1.451328e-01 -0.7594550740 -1.6192996064
## 755 -0.734373381 0.6711336817 1.008952e+00 -0.5294731284 1.7837272900
## 756 -1.439513159 1.7437433962 4.689233e-01 0.5400830038 -0.5698896392
## 757 1.532139375 -0.2364482029 -6.957793e-01 -0.6841856188 0.0904278422
## 758 -1.318812748 0.6390896092 -4.378793e-01 -1.7889845688 1.3641019381
## 759 -0.979440002 -0.6401868512 1.745404e+00 -1.4706950203 -0.3691640826
## 760 2.828652393 0.3762853518 -1.377513e+00 -0.0996117008 0.2267085944
## 761 -1.005695922 0.0101308343 -2.693292e-01 2.2490748914 0.7853529184
## 762 -0.103485189 -1.6291317844 -1.379943e+00 -0.5333380277 -0.1251175896
## 763 -0.035648402 -2.5887951238 -9.863003e-01 0.0919238379 0.6092209894
## 764 -2.229402797 -0.1591984258 4.354709e-01 -1.3862977330 -0.5346810133
## 765 -1.629645439 1.7676399409 3.516109e-01 0.9817942740 -1.5251436439
## 766 -0.304293829 0.9471740155 -1.039555e-02 -0.3819544927 0.1363453222
## 767 -0.477040887 -0.5109302815 1.283081e+00 -1.4174615348 -0.1921741864
## 768 2.024733525 1.0127310975 -2.865295e-01 1.5384065543 -0.9171784623
## 769 -1.075941267 -0.7448176201 -1.593524e+00 0.2367570419 0.1732725173
## 770 -0.562481382 0.6619105742 5.750541e-01 1.6974527218 -0.2088607302
## 771 -1.861457914 0.4088213663 1.623039e+00 0.8384649877 0.8824156968

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## 772	-1.959475034	1.1698535227	-7.013794e-04	0.8098463009	0.1517294843
## 773	-0.712425553	1.1294751081	-6.552529e-01	-0.3593973912	-0.1520716054
## 774	1.556381377	0.2854466170	1.310369e-01	0.3020195685	0.4190527970
## 775	0.982100279	0.8829712873	5.809944e-01	2.8175619317	0.2861019519
## 776	-2.525798265	0.6610622537	-2.794263e-01	0.8780646089	0.4962990520
## 777	-0.693025489	-1.0270236143	1.130294e+00	0.4811014768	0.0759063481
## 778	1.746058896	-0.3936925597	-6.996579e-01	1.5386106843	-0.8500393507
## 779	-2.231790038	-1.8661620786	-5.493713e-01	1.0248308207	-1.5891434172
## 780	-1.280702475	-2.1591765958	9.651005e-02	-0.9155042394	0.2029924879
## 781	2.473571801	-2.2432942776	-7.195504e-01	0.2791576423	-0.2266531965
## 782	0.840323445	-0.2933571922	-1.332524e+00	1.4810203623	0.0652224065
## 783	0.292079763	-0.4789714579	-7.031689e-01	-1.2282426509	-1.0333167199
## 784	0.787789476	1.3079457264	5.639236e-02	-0.1195351708	-1.3439070103
## 785	1.553725935	-0.2918085077	-1.486041e-02	2.1345524102	0.4471387615
## 786	0.551381915	0.9947380364	1.043552e-03	-0.0180936627	-0.8910551629
## 787	-0.208782455	-0.0110040752	-8.246506e-01	-0.2427192775	2.1411087612
## 788	-0.291220303	1.2607697927	8.052228e-01	1.0491793079	0.0446844979
## 789	1.012568636	1.8546553162	-1.712933e-01	-0.1199848027	-1.6349880278
## 790	2.107440705	-1.8880124385	-7.095793e-01	-0.9720388299	-1.5985909374
## 791	0.613125951	0.3846495436	1.653953e+00	1.6379752776	1.4463320852
## 792	-0.910523310	-1.4392632484	-3.256014e-01	-0.1279520722	-2.8312719107
## 793	0.480904581	-1.1016403229	-1.638624e+00	-0.0460927662	0.2571328404
## 794	0.633239880	0.2948088624	1.527098e-01	-0.2236571768	0.9471119809
## 795	2.258589163	0.5614378042	1.126469e+00	-0.2409923190	2.5977316122
## 796	-3.216658173	-0.4713774308	5.179193e-01	1.9012648196	0.1603361538
## 797	1.548200804	-1.2098556623	2.407699e+00	0.7172252478	-2.0132235769
## 798	-0.030538528	-2.1786146713	3.663112e-01	-1.0282188418	0.6433547464
## 799	0.168055257	-3.0197848118	-6.216129e-01	-0.9875526460	-0.2151042517
## 800	1.282313261	0.3819030762	8.145905e-01	1.1236081587	-1.0197343117
## 801	0.069778049	-1.5867892685	-4.594258e-01	0.9523294882	0.6637751344
## 802	-1.024079339	-0.4851508840	6.697301e-01	-0.2061769657	-0.8715503939
## 803	-1.488983821	1.2102951414	7.646760e-01	0.5483827110	0.2212787088
## 804	-1.106525018	0.3058894002	1.278596e+00	0.9497851979	2.8444857715
## 805	0.046061362	1.8949743680	8.080852e-01	-1.0895270658	1.8494023540
## 806	-0.957206858	0.0366688801	-1.101750e-01	-0.5068374152	1.5954077767
## 807	1.216714524	1.1504811916	-1.386696e+00	-0.8395006914	0.0139969978
## 808	-2.216736244	-1.2003261923	2.033065e-01	0.0049600254	0.3129083902
## 809	-1.391583066	-0.5680350866	-1.022462e+00	-0.3835772759	0.4356546956
## 810	-0.783443023	-0.0275837050	-5.283653e-01	-0.0265312930	-1.6156798705
## 811	-0.267042725	0.7779969427	4.177469e-01	0.2739202266	0.6744744367
## 812	-0.958323613	1.4114827205	5.771608e-01	1.3502814023	0.3316683866
## 813	-0.432032822	-0.7351765693	-1.123519e+00	-0.6968791595	-0.1772451295
## 814	0.305954300	-1.8000541137	-7.315416e-01	0.2530100032	1.5864549253
## 815	0.737836475	0.8745562262	5.691734e-01	1.4523167280	0.1950784223
## 816	1.122640269	1.0883051298	1.359881e+00	2.5561705159	-3.3067079906
## 817	1.308137095	0.1918772101	-7.855390e-01	-0.7467621062	1.6697905009
## 818	0.747403750	-0.2486617063	-1.407505e+00	-0.3379155482	3.4422472691
## 819	-1.599252503	0.9592014104	-4.013563e-01	-0.0572125817	1.6704174598
## 820	0.547363298	-0.0885538881	-6.962535e-02	-0.4640771627	0.8241508817
## 821	-1.668318526	0.9707537427	1.878997e+00	0.0317519670	0.8525277302
## 822	-1.893163160	0.6585060645	-5.521202e-01	1.8352109199	-0.7480958945
## 823	1.358672957	1.1133337300	4.542736e-01	-0.9328786787	0.6842851622
## 824	-0.510240082	-0.4387003196	2.858314e-01	0.0697917344	0.4603586056
## 825	0.987880607	0.0784381363	-7.753644e-01	1.8546240017	1.5978436561

## 826	0.663046502	-1.1745530188	1.443691e+00	0.1027622939	0.2626183711
## 827	2.620302076	0.9842735623	1.857365e-01	-0.6758114211	0.8811200720
## 828	-0.317334418	-0.9422748253	1.909061e+00	0.7329146789	1.3532930632
## 829	2.324818146	-1.2648926127	5.310774e-01	-0.0516237295	1.2249922974
## 830	-0.976192188	-1.6760331285	-1.959417e+00	0.2858343534	-0.7847587679
## 831	0.453893681	-0.2983240530	-3.379188e-01	0.5961338401	1.5053254389
## 832	1.200520572	-0.9158592789	-5.055692e-01	-0.3869810347	0.1072722715
## 833	0.157101402	-0.7427669610	6.001089e-01	1.5953929392	0.2021199082
## 834	0.484619341	-0.1607062777	2.805765e-01	0.3844721544	1.3746578134
## 835	-1.543175490	1.0424351034	-1.309624e-01	-0.8556264626	-0.3416956278
## 836	3.094960286	0.1361716396	-1.438330e+00	-1.3697443900	-0.4304740080
## 837	-0.618236737	-2.4709784793	-4.936739e-01	1.2824541067	-0.2808338481
## 838	0.611517192	0.5329271176	-1.525654e+00	-0.9720955006	0.0568687059
## 839	0.410094514	-2.9498404943	-4.084743e-01	-0.7450891313	0.4943262366
## 840	-0.658487109	1.5694843172	-1.477986e+00	-0.7646522723	-0.3769530477
## 841	0.902755485	0.4593405087	4.334758e-02	0.7207259764	-0.0926820210
## 842	1.174523561	0.4262121382	-4.449160e-01	-0.4212842543	-0.6705861326
## 843	1.246803647	-1.6281018695	1.754068e+00	-0.5498602630	-0.7619981516
## 844	0.387524598	1.1320094006	-9.467277e-01	-2.0000711191	0.0057917454
## 845	-1.403997028	0.6600081032	-6.536622e-01	0.3896654357	0.4351002803
## 846	-0.606807581	-1.6010604557	1.293665e+00	-0.2233877618	0.2176494358
## 847	-0.115329118	0.2798515657	2.669676e-01	1.7982234167	0.4765977682
## 848	2.379605835	0.5040935081	-7.861786e-01	1.1540593825	-0.7857654767
## 849	0.956804980	0.8142903786	9.243371e-01	2.2470079032	0.8814105710
## 850	-1.121691740	-1.2345498407	-1.217708e+00	-0.4137735997	0.1182136502
## 851	-2.710019735	0.1886496618	1.199974e-01	0.7517492432	0.0004850519
## 852	-0.832891334	0.4042603213	-4.201722e-01	0.8495821644	-2.3496419190
## 853	1.140715085	1.3298864560	6.333755e-01	1.1471492803	-0.8921667460
## 854	0.469560382	1.4458461895	-7.358571e-01	0.0909711049	-0.4653001288
## 855	-0.908599058	-0.6596358950	1.209848e-01	-1.4524976897	-0.9446967165
## 856	0.891086234	0.2831555808	6.606436e-01	0.0901615194	0.4877944239
## 857	1.869194803	0.2361908252	-1.401348e+00	-0.3369661777	1.5358027971
## 858	0.719271567	-1.2921640929	-7.207367e-01	-1.2402674056	-0.2569919778
## 859	-0.679935996	1.6004502344	1.048968e+00	1.9345876552	-1.5966684775
## 860	-0.125093105	-1.6232789509	1.258530e+00	1.5118284897	0.8077296894
## 861	0.008535439	-1.1213585148	9.720663e-01	0.4644053971	0.9952239937
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## 863	0.864618837	0.3398294755	-7.802353e-02	0.9808067787	2.3418493482
## 864	2.572627462	0.1820710830	-1.306158e+00	-0.9511454582	1.2717082880
## 865	-0.872676146	-2.6433828852	-1.538108e+00	0.1046571029	1.5788295004
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## 875	0.185929087	-0.3853214104	-6.639241e-01	0.1538066005	0.7880591901
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## 880 -2.011333005 -0.0106807529 6.038580e-02 -1.1917163594 0.5697649881
## 881 0.620198960 -0.0664061633 -9.058984e-01 1.0689023810 -0.5408044665
## 882 0.843144737 0.3533653222 1.979965e+00 -1.0881824887 -0.4742746820
## 883 -0.299890842 -1.3977009356 -3.611106e-02 1.5867159454 -2.5123917469
## 884 0.874700793 0.8262520972 -1.372316e+00 0.0003600355 0.7152408483
## 885 -2.172533329 0.1553095340 -1.588771e+00 1.6557926677 -1.2863989412
## 886 -0.740082207 1.8570200443 4.939698e-02 -0.1567912058 1.0936479623
## 887 -0.067486064 -0.4152489586 5.307661e-01 -0.4569548900 -1.7499438130
## 888 -0.717214783 -0.2927030789 -1.482213e+00 1.1447065734 -0.4143768440
## 889 -1.416764785 -0.1791648159 1.143472e+00 0.7206384665 0.2872754438
## 890 0.189257909 -1.6908352047 -2.268340e-01 -1.4436086404 -0.0765172215
## 891 -1.068073820 0.0853294435 4.892782e-02 -0.1796636260 0.8441629757
## 892 0.378440835 1.5079791878 5.771094e-02 -1.0513277511 -0.3053540232
## 893 0.090208490 -1.8761568938 -1.262880e+00 0.5691612441 -0.2012311659
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## 900 -0.481532705 1.0097153746 1.575671e-01 0.9405549111 0.2449464450
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## 910 0.704441111 -0.4000261277 2.185749e-01 -0.8596463738 0.8427832699
## 911 -0.133132180 1.0909294472 9.282521e-01 0.5149997522 0.5385882780
## 912 -0.422212733 -2.0058297722 1.193586e+00 0.8375873460 1.2806804754
## 913 0.700626229 -0.1582309284 1.000206e+00 -0.6090310664 0.7984077646
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## 915 1.519676766 -1.9107875895 2.551166e+00 2.8406262665 0.4165962085
## 916 1.701540384 -1.7236030701 -1.972856e-01 0.7860669598 1.8660080870
## 917 -0.705892652 0.6457336748 8.201304e-01 2.2387829983 -0.0810245635
## 918 -0.414057209 0.1935658356 -8.984433e-01 -0.2920988248 -1.3084712788
## 919 -1.455831108 -1.2054579345 -3.557739e-01 1.3526530294 0.1069371072
## 920 0.633677184 1.4909103287 2.526890e-01 -0.5650316367 -0.3728350148
## 921 0.432550012 -0.6809437343 -5.185189e-01 1.6536888369 -0.1717662598
## 922 2.018509411 -0.1134201867 1.115814e+00 -0.7041543866 0.4007387879
## 923 0.306577670 -0.2964361606 -5.039670e-01 -1.0810341896 -1.0494711144
## 924 2.160639716 0.2941196141 -2.625938e-01 1.7803167246 0.5499670543
## 925 0.679655401 -0.0295068344 1.189902e+00 -0.6772729025 -0.1009746996
## 926 -0.516953760 -0.0572246976 -8.945340e-01 -1.6910318644 -1.4204658837
## 927 0.216127332 1.0920034309 1.514755e-01 0.9526817126 -0.0396518531
## 928 1.653856638 -0.5764547797 -6.730298e-01 -1.3081238347 -0.8387441526
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## 932 0.874764377 -0.1003656666 6.898467e-01 -0.0791382435 -0.4555789871
## 933 0.390155739 -2.8845007292 3.085930e-01 1.0177758968 -1.6726851129

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## 934	1.199682331	0.6955027798	-1.237007e+00	-0.4924642031	-1.6863980523
## 935	1.090377433	1.2297292164	1.739151e-01	0.6186620399	-0.7451160264
## 936	-1.497384781	1.7080180521	-1.001010e-01	-0.0706492248	-0.0852597967
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## 939	-1.210835036	-0.3981391518	-1.411336e+00	-0.7689489932	1.2951473984
## 940	0.779297735	-0.8263007895	-6.054377e-02	1.0505224832	0.0200425670
## 941	0.923390100	-1.6034676862	-2.404157e+00	0.6864400237	-0.4263370050
## 942	1.034742832	1.2044247895	-1.484509e-01	2.1306250368	-0.7870414234
## 943	1.652179256	0.1424584849	-7.362183e-01	0.4730608766	-0.9053559897
## 944	3.156998974	1.0760576477	-1.337033e-01	1.1268883898	-1.5278665744
## 945	0.341608873	0.5787684217	8.058998e-01	2.5624521211	1.1971377164
## 946	-0.664998808	-1.0409796523	6.725167e-01	0.8379567764	-0.9078270649
## 947	-0.759804709	-2.4671696265	-1.328647e-01	1.0718008693	0.3241881322
## 948	-1.034243297	-2.1660228926	-3.653095e-01	-1.0757155456	-0.0546053782
## 949	-0.710112977	-1.3367452122	-1.015058e+00	0.1368152172	-1.5537571598
## 950	1.590410689	1.2708197569	-1.053342e+00	0.9170329020	1.2144612377
## 951	-1.825100231	-0.4013193500	3.507777e-01	0.7712253466	0.6706393193
## 952	0.351467726	0.0835695708	-8.313799e-02	3.1267228419	1.4522992088
## 953	-0.685147077	-1.0692365227	1.614701e-01	0.5129584127	-0.6142444763
## 954	1.138065436	-0.4451097451	-2.293786e+00	-0.1180167399	-0.5167565324
## 955	1.448960275	-0.5814233770	2.519712e+00	0.8978228080	1.7655900284
## 956	0.820303359	0.7295066811	6.715157e-01	2.4945609582	-0.9046742018
## 957	1.637837722	0.8349387892	-2.204418e+00	0.6987010832	0.1307045240
## 958	-0.966666727	-0.7204460608	-3.148486e-01	-0.2639470641	2.0594422843
## 959	1.188000064	-0.4266589255	6.417893e-01	-1.6677908519	1.0821273564
## 960	1.299157052	1.2374700007	-8.543814e-01	-0.1590530349	0.7731626981
## 961	-1.646029466	0.5783824865	-4.253466e-01	-0.7545066886	-0.7597880087
## 962	0.820698637	-0.0239266455	-7.410980e-01	-0.7108847071	0.9672882734
## 963	1.404382871	-1.4481583828	-8.361309e-02	0.1377320725	-0.1317209741
## 964	-1.675133629	0.7088526831	1.115290e-01	0.3125784536	-0.6821121702
## 965	0.093919352	1.4375453574	-1.078785e+00	1.4469635179	-2.0105417920
## 966	0.344033546	0.5343999551	6.835237e-01	0.5611195606	-0.4940570957
## 967	0.588459688	-3.3485672063	-2.207865e-01	-0.2837022869	-1.2672695126
## 968	0.291699045	0.7716654025	-2.110622e+00	-0.5480482655	0.3292936987
## 969	-0.773994673	-0.1182684429	-2.173202e+00	-2.5530571214	-0.3490318444
## 970	1.406664467	1.2886977025	6.755556e-01	-0.0717880999	1.0796537937
## 971	-2.365694706	1.6476303858	-1.047558e+00	-1.2914709679	-1.2882685857
## 972	0.248988839	0.3604348180	5.144796e-01	1.0643807419	-1.7642941842
## 973	1.460992753	2.3317582524	1.285263e-01	0.7913516772	0.4965806849
## 974	0.938183103	0.3351696861	8.751297e-01	0.9032933441	0.0669427451
## 975	-0.891500290	1.4124299873	1.781899e+00	2.5171298578	1.6464960373
## 976	-1.033603840	-2.1348715676	-1.683724e+00	-2.0907389181	0.5706691392
## 977	0.362528264	-2.4726127305	1.884367e-01	-0.4814806891	-0.2916686062
## 978	-1.821131575	-0.9749383271	-6.983000e-02	0.7490238139	-0.2090844490
## 979	-0.143475180	-0.6623536323	-2.719715e-01	-0.9800341910	-1.6043096055
## 980	0.587554929	-1.3944470151	-1.884877e+00	0.2444750022	0.6877805714
## 981	-1.151770034	0.2240636369	-6.748813e-01	0.7213207326	0.6262722769
## 982	-1.598704681	-3.0583000313	5.779685e-01	-0.1999399509	0.5163433308
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## 984	2.786844962	1.2504787506	-1.034782e+00	-0.5296219735	-1.3463689069
## 985	-1.136424687	-1.0115449751	-4.648183e-01	0.6962621700	1.0521208413
## 986	0.341369435	-3.2662545277	-4.499349e-01	-0.2019881576	-0.4319511966
## 987	-2.183303539	-0.7213193157	6.439741e-01	-1.1020536672	1.1650411832

```

## 988 -1.249846583 1.5548862782 -7.887209e-01 1.1065933718 0.8553978714
## 989 -1.519733284 -1.2477234277 6.428844e-01 0.1785922539 0.2977508546
## 990 0.223255619 -0.0943380632 1.581831e+00 -1.4326402639 -0.5492824163
## 991 -1.382343487 1.2852889089 5.129968e-01 0.7482276365 1.4876045900
## 992 -1.938538022 -0.8686709410 1.055573e+00 1.5540436274 0.0136304621
## 993 0.275786273 0.0350003226 1.793703e-01 -0.6109433902 1.2903842693
## 994 -1.090207079 0.5960515108 -9.206285e-01 -1.9684112205 0.5476261267
## 995 -0.363430583 -0.9898405836 6.674465e-01 0.3680060139 -0.2291194812
## 996 0.869024260 -1.0193895200 -5.597129e-01 -0.1527991869 -0.1513068011
## 997 -0.682542341 -0.3342290877 3.103920e-01 0.2718113899 -0.2901324983
## 998 1.373442619 -2.3617482807 7.461387e-02 0.4785821347 0.1130062801
## 999 1.415416855 1.1905269300 9.778410e-01 -0.0161623821 0.9766515068
## 1000 1.585236554 0.8789921756 -1.820418e-01 1.0646132777 -0.4957417434
## 1001 0.952124084 -0.2856113208 -1.558836e+00 -0.1690646063 -1.0577031187
## 1002 0.833827673 1.7672502457 -1.897395e+00 0.1747253580 -1.1734437162
## 1003 1.135676470 0.5535341419 3.300905e-01 0.7681330880 2.3310032530
## 1004 0.879732935 0.5255073246 -7.822771e-01 -1.1181859828 -0.0683534181
## 1005 2.307159261 0.6913008108 -1.567364e+00 -0.9322603935 -1.4947492548
## 1006 3.424195043 -0.3573964913 -1.709988e+00 1.1346116156 -0.1736962069
## 1007 0.646117346 -2.0537245270 -2.061805e+00 0.2929235242 0.5102502652
## 1008 2.538287247 -2.6322067611 6.140645e-01 1.3747118323 -0.3509701230
## 1009 0.707893702 1.2463169975 7.719638e-01 -0.6418777578 -0.7659673933
## 1010 -1.336060807 0.0359697507 5.010556e-01 1.1231338283 -2.4860556694
## 1011 -1.591037336 1.8006216909 -1.364070e-01 -0.5160494228 -0.2058262749
## 1012 -1.328431130 0.3219176636 -1.019484e+00 -1.0896309071 -0.9730306172
## 1013 -0.709999266 -0.4043808307 -7.196423e-01 1.7351831628 1.5825563788
## 1014 -2.754229885 0.3539147646 -1.418552e+00 0.6322776060 -1.3769625387
## 1015 0.179581363 1.2738170735 -2.775007e+00 0.2272367173 0.5239752242
## 1016 -0.887312386 -0.1004864864 -1.170466e+00 0.5681054917 -0.8720004260
## 1017 0.948278517 -0.4853722877 -1.148315e+00 2.0359616553 0.7337858273
## 1018 1.440961239 0.7087523279 -1.249824e+00 -0.3038195559 -0.8354200691
## 1019 1.966166748 0.3744855591 -4.632601e-01 0.4610835086 2.7988460583
## 1020 -2.222695902 -0.5641396801 -2.670096e+00 1.0544281969 -0.3544613608
## 1021 -0.172676988 0.4599261779 -8.444101e-01 -0.9027739943 0.1576809205
## 1022 -0.849866534 -1.6203544930 -2.057532e+00 1.0969596433 0.7500279824
## 1023 1.783688705 0.5380529690 1.462427e-01 -0.9057233870 0.1617538425
## 1024 -0.982111369 1.2645956381 -1.465136e+00 -0.6840345753 -1.4227851645
## 1025 -0.667129680 0.3709105284 -1.584009e+00 1.2381067493 -0.1242791770
## 1026 -1.663655581 0.1393322944 2.335183e+00 0.5784267679 -1.8169692305
## 1027 -1.683096966 0.7718795788 -8.393777e-01 -0.2786156305 0.9496143265
## 1028 0.671393688 -0.0704225985 -1.440397e+00 0.6758574217 -0.2088126003
## 1029 -0.099342116 0.4017449159 -1.564752e+00 -1.9552383154 -0.7309027633
## 1030 0.094911400 -0.0043861786 -4.259761e-01 0.8594648366 0.6899055593
## 1031 -1.381543050 0.8222908199 -4.303386e-01 1.0358238116 1.5970646770
## 1032 -2.042444989 -1.2564962596 -8.332526e-01 0.9659477893 1.5294637887
## 1033 0.761934044 -1.8134125515 -7.305199e-01 1.6756702829 0.4949123617
## 1034 1.160109180 -0.4680513043 -2.275254e+00 -1.5153884653 -0.3593495784
## 1035 0.274487135 -2.2553803899 -6.921037e-01 1.3491199072 -0.7437410228
## 1036 2.328175664 1.2561844093 -4.591887e-01 -0.7091569207 -2.4968892210
## 1037 0.766823938 -2.8917910565 -1.000461e-01 -0.9232722000 1.6187891174
## 1038 -1.071209497 -0.1955800131 1.090973e+00 0.0826147017 -1.0817920530
## 1039 -3.140777062 -0.1199007981 -1.519377e+00 0.7914908909 -0.7630922178
## 1040 2.577356285 -1.2300783228 -6.296601e-01 -1.3766187322 -0.9245911556
## 1041 0.270161058 0.2187213857 8.651447e-01 3.1763370492 0.5518403047

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## 1042 -0.465861459 1.5757204445 -7.060096e-01 0.4306119049 -1.2771145637
## 1043 1.622880240 1.3538362752 -5.008133e-01 -0.0255856381 1.3086917720
## 1044 0.908283503 0.7844566417 -1.441796e-01 0.3113508865 -0.1654878388
## 1045 0.597941008 -0.1825961419 -9.822873e-01 -1.2234209940 -0.1795607584
## 1046 -0.516297277 1.1966254071 -2.492396e-01 0.1954588267 -0.4946578850
## 1047 0.739875716 0.5503988564 1.900925e-02 -0.6054839127 0.2454866671
## 1048 -1.605223232 0.2101460819 -7.273729e-01 1.5667912516 0.1546907701
## 1049 -0.008960848 0.5039680553 -3.474918e-01 0.3414140199 -1.6158104086
## 1050 -2.154583412 -0.0077523518 -7.523756e-03 -1.4402691634 -0.1871530743
## 1051 2.157900120 0.7626709461 -6.038558e-01 -0.3197037999 0.4193824458
## 1052 -2.146080370 0.9985439311 -2.098300e+00 -0.5616962916 1.0624038497
## 1053 -0.812819977 -0.0399532509 2.449404e-01 -0.1091102083 0.5191158359
## 1054 -0.348952644 0.5399617099 -1.755887e+00 -1.5376076209 0.5633003046
## 1055 -0.076913196 0.2870264857 6.949353e-03 0.6532005432 0.2697058472
## 1056 -0.725648357 -0.8630775576 -9.969611e-01 -0.4287756283 -0.1615405988
## 1057 -1.638561056 0.0191551016 -6.746189e-01 -0.6651289199 -0.8886948079
## 1058 -0.602488640 -1.0664640047 -1.921170e+00 0.9818628384 -0.0125803348
## 1059 -0.493818617 -2.4493166432 -1.046048e+00 0.0798137801 -0.9531630328
## 1060 -1.533018902 0.9709850189 -8.450593e-02 1.0289832818 0.4285807205
## 1061 1.852572025 -2.6538473600 -1.210766e+00 -0.2304355720 -0.1327143937
## 1062 -1.520517002 0.4217790943 -1.691066e-01 -0.0282621708 0.5596992815
## 1063 0.391067490 -0.2931667740 8.299559e-01 -0.2578391537 0.0111261882
## 1064 -2.205577305 -0.1806227191 -5.233660e-02 0.6543463543 0.7554919779
## 1065 1.523312087 0.8438566287 -4.875254e-01 1.8113239346 0.6682271311
## 1066 1.207496228 -0.0163456961 1.239115e+00 0.2183631875 0.4561786239
## 1067 0.905998097 1.0777257816 -1.850010e+00 -0.1798917808 -1.2312962599
## 1068 -1.918411672 -0.4583832630 -5.033064e-02 0.4049551839 -0.8652898314
## 1069 2.008636401 -1.3017306909 -4.838155e-01 1.0039069621 0.2080911901
## 1070 -0.439454134 -0.1686992185 -3.234613e-02 -1.4997182081 1.3287964018
## 1071 -0.195663524 1.5494873595 -9.730312e-01 0.3989617055 0.5547858082
## 1072 -0.076539254 0.5059131048 -7.139757e-01 3.1334002452 -1.1073454229
## 1073 0.405787685 0.2588005933 -4.960729e-01 0.7050053780 -0.4171509898
## 1074 0.332324998 -1.5579802644 -7.923884e-01 0.2183387718 0.4498314598
## 1075 1.323145057 0.7198204569 -7.674369e-01 1.6141904460 0.3253728647
## 1076 0.333415032 2.3148720334 -2.910505e-01 1.9672455197 0.0974128704
## 1077 -1.016672824 0.2274089598 -8.047627e-01 0.5859616275 0.4045031475
## 1078 1.345986687 -1.8595393740 -3.140802e+00 -0.9739996741 -0.7489046702
## 1079 0.815381285 -1.1465869703 -7.221972e-01 1.4019688140 0.5050234448
## 1080 0.551221130 1.4798878152 -1.822573e-01 -0.1922015403 -0.0994623934
## 1081 -0.874252134 0.7363600534 -5.402006e-01 1.0147587437 -0.1985449609
## 1082 1.986997093 -0.1805101270 -4.744809e-01 -0.0916153565 -0.2428195336
## 1083 1.816067153 0.0372159545 -1.320056e+00 0.2340208584 1.2841042066
## 1084 1.679599343 -1.5182646922 -2.026405e+00 -0.1903975698 0.0496136234
## 1085 -0.473516080 -0.0424162856 1.344773e+00 0.4438574983 -1.5443498260
## 1086 1.509955253 -1.2191423250 -2.934647e-01 -0.1229257931 1.0606806754
## 1087 1.319489079 -1.8956357776 3.880035e-02 1.0139192291 1.5604128341
## 1088 -1.664950695 0.2168309106 4.853941e-01 -0.6125574492 -1.9939524992
## 1089 0.414112740 0.6482569453 -3.348871e-01 1.4506716855 -0.4575855041
## 1090 0.524798486 0.5345158062 -9.803653e-01 -0.5046088791 1.0699935086
## 1091 1.773198865 -0.0483718357 1.096633e-01 2.6525187663 -1.5243008901
## 1092 1.377180278 0.0160763098 5.006407e-02 1.1579067147 1.0158899666
## 1093 -0.694169602 0.5492846717 -5.262635e-01 -1.0438948765 -1.2250274914
## 1094 2.007831968 -1.4478153319 1.485123e+00 0.2898751786 1.6597895919
## 1095 -0.699643620 1.4643100480 -5.284736e-01 0.4274143264 -1.0862230687

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## 1096 1.162179760 -1.8456461398 -1.217108e+00 -0.1012502900 0.8249528062
## 1097 2.242196642 -0.0612366425 2.120903e+00 0.2427447895 -0.2027799599
## 1098 -0.051542086 -0.8833139539 -7.880813e-01 2.2251229029 -1.0918653652
## 1099 0.839366220 -0.5703177526 1.785257e+00 -0.2992164396 1.2042507350
## 1100 0.257478086 -0.1292661149 -1.798133e+00 1.5405375796 -0.6502832673
## 1101 -2.980041218 0.1904706273 -1.983398e+00 0.9123412617 0.0031725928
## 1102 -0.064885029 0.1711636627 -3.674116e-01 1.7119216496 -0.3165982602
## 1103 -1.482512809 0.5636334301 5.493411e-01 -1.5152749007 0.5219045977
## 1104 -2.154583621 -0.3152679298 -1.859007e+00 -0.5495362315 0.0903903455
## 1105 -1.042752119 0.0720466508 -1.495888e+00 -0.3754689021 0.8151943604
## 1106 -1.458664750 0.8473284960 -1.420539e+00 -1.1843921035 0.3619264981
## 1107 -0.508276244 -0.9835080946 -1.387037e+00 0.2086384728 -0.1401453894
## 1108 2.348417625 0.2851765754 -6.208298e-01 -0.3509133514 1.8295307770
## 1109 1.615429309 0.9874044672 -6.588036e-01 1.5521919575 -0.9465770508
## 1110 -1.814121099 0.3735768574 -3.858777e-01 0.6796527366 -0.7087372282
## 1111 0.485974946 -2.7617075470 -9.980076e-01 0.8686310563 -0.2816829294
## 1112 0.540138536 -0.5851327029 -1.101726e+00 1.4584109334 -0.9078482257
## 1113 -0.027704784 -1.2344927219 -1.476150e+00 0.3333994468 -0.7161165607
## 1114 -0.169709123 0.4354836340 -3.218464e-01 0.8144937070 -0.5817797131
## 1115 -0.163145639 -0.2280031143 -1.445744e+00 -0.7393199658 -1.9464740139
## 1116 0.790306645 1.0816776142 -5.037758e-01 -0.2160724414 1.7655886100
## 1117 -1.141890525 0.0054873418 -4.741051e-01 1.0474634710 1.4593687511
## 1118 -0.886552956 0.9813856462 -2.542579e-01 -0.7308549831 1.2541685943
## 1119 -0.408798771 1.7556873537 -1.909145e+00 0.5095212381 0.5353960748
## 1120 -0.921208532 0.3342396093 -7.591107e-01 -1.0029791583 -0.0514891501
## 1121 -0.881237198 1.4978606607 -2.461153e+00 0.9725476407 -0.2397963528
## 1122 -1.487356947 2.0732436945 -1.729994e+00 0.9266576745 0.2296638764
## 1123 2.001115632 -0.1893624815 3.774859e-02 -0.8109783904 -2.0224207018
## 1124 1.620732642 0.2534286713 -7.831780e-01 -0.2792540949 -0.5498110626
## 1125 -1.302668120 1.3418244959 1.727492e-01 -0.4658019554 -0.6602970362
## 1126 0.744045485 0.1796891461 7.328671e-01 -0.0127859919 1.7145039564
## 1127 -1.766144782 -0.2982485895 7.290964e-01 1.3416959069 0.7118438014
## 1128 0.157647929 1.0484415853 5.687152e-01 -0.5979984929 -1.1701729895
## 1129 0.299698637 -0.5046861893 -9.917828e-01 -1.4836290336 0.0584146363
## 1130 -0.370007788 1.3281862793 1.109820e+00 1.4158133818 -0.4660347299
## 1131 0.819273101 -0.6379107094 -5.941942e-01 -0.9409163578 1.1607786226
## 1132 1.645269815 -0.3039642800 -7.769222e-01 0.9626928936 -0.0634390882
## 1133 -1.297893962 0.1082850194 -1.398127e+00 0.6413353482 -0.5753694049
## 1134 0.193755601 -0.6984456028 -9.778561e-01 -1.4492243176 -1.5294390907
## 1135 0.760846952 1.1400158665 7.685192e-01 -0.1138069731 0.6578606415
## 1136 0.411043896 1.3760999526 -1.608274e+00 -0.7271209109 0.0094453301
## 1137 0.068186542 -2.9737792120 -4.223852e-01 0.7448135431 -0.5521689493
## 1138 0.443482633 -1.8643175029 -1.818294e-01 0.4280847123 0.5085181735
## 1139 1.419265518 -1.5235253589 1.338348e-01 -0.2103289843 0.5148556141
## 1140 -0.724365663 1.3475972971 -4.962523e-02 -0.0964959736 -0.2976999431
## 1141 -0.504350557 -0.1155246124 1.764999e+00 -0.5619451052 -0.5466008394
## 1142 0.463303074 -0.0307247739 -1.179110e+00 0.7994946718 0.5695422605
## 1143 1.364812593 -0.6690361177 -7.132141e-01 2.2878212331 -1.0584513098
## 1144 -1.232196198 -1.1417328322 -1.836033e+00 1.6615659801 2.2031380958
## 1145 -0.672956077 1.3630634857 -5.990538e-01 0.6220996034 -0.6791553041
## 1146 -0.850825404 -1.1167854926 -8.443291e-01 0.1843549826 -0.0905518601
## 1147 0.172468498 0.3626083471 -4.850719e-01 0.5193696954 2.0606587760
## 1148 0.800197757 -0.6633286276 -1.992585e+00 -0.4737026875 -0.3436267076
## 1149 -0.247375326 -0.1664190060 -1.970318e+00 -1.4392970090 -1.0391747666

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## 1150 0.407015626 -0.6879567781 -8.423375e-01 1.5037487558 -1.4511924891
## 1151 0.917175052 -0.0146602791 -1.848456e+00 -1.2719925536 0.4996136803
## 1152 -0.575104114 -0.5795843537 -1.023197e+00 2.8794401132 -0.4666977043
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## 1155 0.363121199 0.0713017671 -7.963545e-01 -0.3092405717 -0.0541261788
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## 1157 0.664897089 -1.0888017903 -9.875006e-01 0.1720966338 0.5580965950
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## 1159 -0.935424251 -0.7681514842 -1.164976e+00 0.6938434713 1.2528529278
## 1160 1.572408558 0.3027408752 -1.131993e+00 -1.9836554999 0.6330455051
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## 1162 -0.023527035 0.8922438204 1.194497e+00 2.7637443869 -1.6744638822
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## 1164 0.239757675 -0.5171575499 -1.338419e+00 -1.2327097782 -0.7862968622
## 1165 0.506319816 -0.7555009794 1.279144e-01 -0.4829280182 0.4943469012
## 1166 2.264430064 -0.2301845063 -1.203335e-01 -0.4669086799 2.4957670757
## 1167 -0.840379494 0.9966850823 -1.018852e+00 1.1616130126 1.3046866228
## 1168 -2.379135794 -3.4223849209 1.028312e+00 0.9941655013 0.8865824859
## 1169 1.114845889 0.1698251354 1.525517e+00 0.7356382905 -0.2186332895
## 1170 -0.243032266 0.3206324012 -1.739282e+00 -0.2544442765 -0.2153705182
## 1171 1.088324586 0.5096745087 -4.534618e-02 -1.1649059641 1.1235127507
## 1172 1.529562235 -2.4481952589 -1.602037e+00 -1.9568219417 -0.2729006338
## 1173 -0.640530193 0.6926742833 -1.572180e-01 1.3732651126 0.6747356559
## 1174 0.350883057 1.0386701970 -1.419807e+00 1.8438115996 -0.4553039820
## 1175 -0.013422876 1.4215593925 6.777648e-02 0.1682370638 -0.1752746292
## 1176 0.177709865 0.8879571086 -8.263776e-01 0.4337834443 -0.7601760198
## 1177 -1.358251096 -0.1903035866 -2.271491e+00 0.4765401492 -0.2842932227
## 1178 -1.413929088 -0.7796474016 -1.181752e+00 1.5929546794 -0.4038985066
## 1179 -0.864949818 1.8870071197 -9.755571e-02 0.7717887379 -0.5565446094
## 1180 0.036274664 0.0829410719 -2.135775e-01 0.1793797711 -0.7632153253
## 1181 1.898672204 0.8800110525 -2.277131e+00 -0.1472033248 0.7897443834
## 1182 1.164092187 -0.7521220748 1.098176e+00 2.0055743931 -0.1702188930
## 1183 0.711821822 1.9108881741 6.381041e-01 2.2805746327 0.3681946915
## 1184 0.001862554 0.5470616264 -9.807997e-01 0.9201836154 -1.0880599627
## 1185 -0.898389563 0.9705241946 -2.242584e+00 0.8287478411 -0.7265779257
## 1186 -0.396170260 0.3038508485 -2.888918e-01 0.6037382227 0.3002022242
## 1187 -0.901074891 -1.2254319888 4.847609e-01 0.7100881415 -0.2339718607
## 1188 -0.408767836 1.2723379158 -1.158319e-01 -0.4102253083 0.2177136303
## 1189 -1.518951599 -1.0360338943 -1.784571e-01 -0.1084524125 -0.0047043362
## 1190 -2.115015894 1.3883465119 -8.960468e-01 0.3367103270 -0.0769433436
## 1191 -0.445374536 0.4265103100 3.994399e-01 1.0871552255 -0.5466045341
## 1192 -2.181820490 0.6298068906 -1.052730e+00 0.2920263307 1.3154310060
## 1193 -0.081644929 -1.8861844658 -5.872086e-01 1.0563059351 -1.5651396040
## 1194 1.452697712 0.9543943034 -3.164726e-01 2.8273877303 -0.1249186323
## 1195 -3.005292042 0.5515752735 -4.685082e-01 0.1560200904 -0.0790471778
## 1196 0.633459584 1.2876735911 8.927589e-02 1.4670761295 1.2746567837
## 1197 -1.276091516 -0.2316749941 7.924106e-01 -0.8771715690 -0.0359151238
## 1198 -0.312957624 0.9673587675 -5.703454e-01 1.4532984590 -0.1460018159
## 1199 -2.573052495 -0.6773927266 1.361093e+00 0.7163304049 1.6209724696
## 1200 0.080245150 -0.7801711341 -1.915707e+00 -1.5532724027 1.2688937744
## 1201 0.378155070 -1.0300639254 4.315732e-01 0.8707206216 0.2349683144
## 1202 1.978090543 -2.1181863101 6.889686e-01 1.2207604623 -1.1168547941
## 1203 0.067200469 1.3443349616 3.292438e-01 0.3703656844 -1.8482530498

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## 1204 0.859141567 0.8112986543 -4.258919e-01 -1.7606367331 0.5307898707
## 1205 -1.521765264 -2.3129277723 -1.050973e-02 0.1847398669 -1.3692981035
## 1206 1.523587098 -0.5952128277 -1.548144e+00 0.4061046128 -0.0287659944
## 1207 1.849419561 1.5793793813 -1.176500e-01 0.3557112960 0.5550558001
## 1208 -0.963558672 -0.8482447334 -1.083584e+00 -0.4447000140 -0.7820615835
## 1209 1.596644230 0.7296891841 2.524678e-01 0.6387147288 0.0329698120
## 1210 -0.479735855 0.6057798015 -2.699306e-01 2.5931277473 0.7659637821
## 1211 0.792548638 0.1752544454 -2.316713e+00 -0.3107182463 -0.8357095661
## 1212 -2.202692190 0.1673429614 1.344964e+00 0.8580772343 1.7045220733
## 1213 0.919645016 -0.0039074732 -3.808454e-01 1.1433567378 1.2539612299
## 1214 -2.424866408 -2.1428340963 -3.311318e-01 0.5192698939 0.6192112216
## 1215 0.859761109 -0.3216702170 -1.672176e-01 -0.7468320954 -0.4004957221
## 1216 0.903037481 -0.0816751348 -6.162592e-01 0.6235008273 1.5188100419
## 1217 -1.253611627 -0.0108436369 4.571163e-01 -0.1986561749 -0.7083705662
## 1218 0.216815781 0.5750914676 -2.706737e-01 -0.7461534966 0.1484162252
## 1219 -0.153650358 1.2841270008 1.725277e-01 0.6739678682 0.3577473787
## 1220 0.270125317 0.5778085067 3.488312e-02 0.8199595926 -0.8008513242
## 1221 -0.463481865 0.9643983485 -6.671893e-01 -0.9063833008 0.9949301934
## 1222 1.495509110 -0.2187612583 8.247376e-01 -0.3016857318 0.8951316739
## 1223 2.752095801 -2.3218954060 2.333426e-01 2.3218723603 1.4823118182
## 1224 -0.601324441 -2.4027963453 -3.513410e-01 0.6251886470 1.5427796662
## 1225 0.239058560 -0.1325980268 -5.926760e-01 2.2827731390 0.3304819014
## 1226 1.132728622 -0.1807842785 3.797839e-01 1.6272692638 -1.5423314242
## 1227 -0.239749457 -0.0282619130 -1.479716e+00 0.2018081009 2.1447013404
## 1228 0.911789197 0.8982331843 -8.782169e-01 -0.0285965999 0.9679573397
## 1229 1.627696779 0.0201850678 -5.242418e-01 2.8468685770 2.1913225766
## 1230 -0.235594769 -0.7471477374 -1.517166e+00 0.4496454747 -0.9441313601
## 1231 -0.104653406 -1.1943572901 -1.922557e+00 0.7003356516 -0.8480998158
## 1232 2.102266188 0.7448972533 -9.954209e-01 -0.3673795989 0.5238239753
## 1233 0.133061182 0.2795557778 -6.103001e-01 -0.4722903067 0.5035629107
## 1234 0.513786202 0.0284275990 2.964915e-01 -0.5303716743 1.6641638643
## 1235 -1.745819899 0.3038263235 -1.331577e+00 -1.3042176402 1.4101219006
## 1236 -2.313771180 0.1806829436 4.338218e-01 -0.5547199780 0.2176619180
## 1237 -3.289822661 -3.1522725272 -1.920338e+00 -0.1016173286 -0.9239093159
## 1238 -0.869390622 -0.7123793595 -5.243579e-01 1.5734198775 1.1699011121
## 1239 2.279263718 0.4859001737 -3.034041e-01 0.6190308922 -0.5220306820
## 1240 1.129662041 0.7851570443 1.125021e+00 0.8432673455 -0.3130795787
## 1241 1.195234592 -0.5976406087 1.161802e+00 -0.5831144526 1.3807729931
## 1242 -1.437766435 -0.7619312194 -5.240962e-01 0.4692083389 1.6804626340
## 1243 0.509646626 0.3154944435 -2.151248e+00 -0.5492849030 0.0769737678
## 1244 0.792901283 0.3047827592 -3.523030e-01 2.6890109975 0.5448215704
## 1245 1.046528467 0.7996488165 -4.399585e-01 0.7838409827 -1.8371650773
## 1246 2.408802122 0.3635063579 -2.143074e-01 -0.9706431002 1.3208323169
## 1247 1.800892542 -2.5621400534 -1.126237e-01 0.1527340349 1.9275759348
## 1248 -1.664267238 1.2677774423 -3.012180e-01 0.4871815838 -0.2357934009
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## 1250 -0.389774237 -0.9017701742 -1.227276e+00 1.8662581653 0.2133433945
## 1251 1.700698615 1.0558442465 2.266293e-01 0.8284778886 0.0196089443
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## 1253 -0.922032565 -0.2825098738 -9.182754e-01 0.0104938864 -0.2044901489
## 1254 -0.619841594 0.8720231622 -4.744072e-02 -1.0001548141 -0.0394564613
## 1255 -1.118947349 1.5459960417 -4.529013e-01 -0.7812544334 -0.2035851918
## 1256 -1.512745207 -2.3115540506 -1.871151e+00 -0.2654717391 -0.1355972280
## 1257 0.895711247 0.2802825756 -8.341864e-01 1.6427219402 -0.4404419941

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## 1258 -2.868385965 -1.5040008752 -1.669537e+00 0.4953775925 1.1324970552
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## 1260 1.318789885 0.4929499803 -1.098499e+00 -0.2273483320 0.8423101451
## 1261 0.989412442 0.9645710045 -1.355866e+00 0.1991671437 0.1902336644
## 1262 0.657292489 -1.3809283737 9.276298e-01 1.8726823807 0.9340321120
## 1263 -0.582685596 -2.0174229301 7.965585e-01 1.3597829378 -0.6639305110
## 1264 -1.228977349 0.2515894682 -1.639873e+00 0.5674690170 -0.8474912069
## 1265 -1.961246093 -0.0303199092 -7.075544e-01 2.7482970579 -0.1196478532
## 1266 -0.545533646 -0.3463449627 -4.229867e-01 -0.6189628592 -0.5474818490
## 1267 -0.458689512 -0.4452980935 -2.310366e+00 0.5178131057 0.0147961101
## 1268 -1.520070143 -0.7627152209 5.986454e-01 -0.7370522170 0.6084734758
## 1269 -1.967438340 -1.1620852619 5.707881e-01 1.1159295830 1.1311426546
## 1270 3.433371089 1.3727442494 -2.102379e+00 -0.1134244788 0.9835258454
## 1271 -0.714889931 1.1666645590 7.587478e-01 3.4642172820 1.1421407004
## 1272 -0.189688687 -0.2660840390 -7.356559e-01 0.8858890292 0.3624739401
## 1273 1.054062152 0.7788044858 7.894494e-01 1.9739320353 -1.1953230948
## 1274 1.159940819 -1.1234999962 -1.476757e-01 1.1028850257 -3.0774453941
## 1275 -1.699648169 -0.7638025242 -2.674650e+00 0.8998061979 1.3152316413
## 1276 0.440394476 1.0912624475 -1.595047e-02 0.5842311908 -0.7137224179
## 1277 -1.693962162 0.0232240103 -8.592341e-01 1.4648497285 0.8061309965
## 1278 -1.659174654 0.1036526805 1.124704e+00 1.0224101993 0.2407911776
## 1279 1.089586494 -1.6359016464 -4.467484e-02 -0.4452405885 -1.1166854024
## 1280 -0.870159512 -3.2831454073 -4.033325e-01 0.0090353790 -0.4249901137
## 1281 2.359145153 0.1771626930 -6.446591e-01 -0.1994527977 -1.4690780722
## 1282 -0.199334690 -2.5082521981 -5.717148e-01 -0.7920142557 0.9356142185
## 1283 -0.003170290 -0.1622016392 -2.429143e+00 -1.5246180560 -0.6744173007
## 1284 0.136426900 2.2080868113 -6.654593e-01 0.0734137345 0.0449864578
## 1285 -0.068228524 1.4938872319 2.350559e-01 0.0511521929 -0.8390525349
## 1286 -1.278816043 -0.0901433914 -1.451623e+00 0.7092377463 1.7450714108
## 1287 0.658968401 0.6419100237 -1.551461e+00 0.6821890733 -1.1804388677
## 1288 0.082833775 -0.1568216292 -2.083225e+00 -1.6329757180 -0.9717211979
## 1289 0.025630135 1.2674118999 3.574138e-02 0.8560934174 0.6897277714
## 1290 1.188497947 -0.6521067366 -1.604284e+00 -1.4681111495 1.1675051188
## 1291 0.923123273 -1.6910952488 -2.375303e+00 -0.0688285475 0.4239278051
## 1292 1.703393719 -1.0869109734 -2.083556e+00 -0.0116916741 -0.5171026199
## 1293 -2.182187597 1.0558256976 -4.597865e-01 0.4807725102 1.3272097075
## 1294 0.711707842 0.2000656184 -9.169111e-01 0.0169921609 3.1165970597
## 1295 1.860125492 0.3849100885 -2.346484e+00 -0.7070762110 0.9377904623
## 1296 -1.167700402 -0.6946240708 1.017303e+00 1.1093295786 -1.3944864033
## 1297 0.441515529 1.1575634779 -1.571296e+00 -0.4165417149 -0.5565747857
## 1298 2.917978657 -2.3925652326 -4.907025e-03 0.3770280981 -2.0542538717
## 1299 0.941906123 -1.3613284138 -8.844780e-01 1.2370881214 -1.6488887042
## 1300 0.369592823 1.1286407995 5.291882e-01 -0.0628820377 0.0823258901
## 1301 -1.888101671 1.2958151586 -1.154311e+00 0.1049195066 -1.5761242826
## 1302 -1.036623960 -1.0189845914 -1.387437e-01 0.1481434660 1.4344081386
## 1303 0.887874230 -0.5223306144 -2.152721e+00 1.6949170304 0.9989150586
## 1304 0.070853574 -1.5466066965 -6.713765e-01 0.8177355063 -1.3908103143
## 1305 1.045309210 -0.3792487077 -1.648586e+00 0.7243243747 -0.3779683232
## 1306 -0.502439254 0.4778643936 -6.851677e-01 0.4472443714 0.1817777845
## 1307 -2.244998099 0.5502833102 -1.648208e+00 -0.4119414180 -0.1075233101
## 1308 -0.667357291 1.1426343338 -9.984092e-01 0.2909640672 -2.0253217591
## 1309 -2.983321210 -0.4405988014 -6.145453e-01 1.2179174283 0.2936766608
## 1310 -0.439591019 1.7039233630 -5.970804e-01 0.9541915874 0.7193933231
## 1311 -0.802579270 -0.4928067036 -7.327643e-01 -0.0851125691 1.4710811183

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## 1312 0.665724281 0.9326147249 1.446671e-01 -0.7427600508 0.8895236831
## 1313 2.401083680 -1.0364782538 -2.790556e+00 0.2116988296 0.1727296449
## 1314 1.017113502 -3.7411806653 -1.281750e+00 0.5981534712 0.4468033663
## 1315 -2.450733685 0.9390126442 -1.121644e+00 1.3101997257 1.0113281990
## 1316 -1.175961613 -0.1267736646 -2.212575e-02 0.9251410311 -1.8857097127
## 1317 -1.851934981 1.4541575990 -1.300575e+00 -0.7790296857 1.2108110536
## 1318 1.730500639 0.0817531594 1.763881e+00 0.0873724177 0.3381802655
## 1319 2.112085980 0.6504848271 5.623219e-01 1.2129028628 0.5049631619
## 1320 -1.395804142 1.5971010634 -1.092958e-01 0.3093873656 0.9264618072
## 1321 -0.829379914 -0.2559249719 -4.747501e-01 0.2737704180 1.1003782869
## 1322 1.399424076 0.7011851287 -1.950620e+00 -0.2541043084 0.8763199649
## 1323 0.084738142 0.5528258418 1.962754e-01 0.5122678768 0.6217336085
## 1324 2.091211567 0.1913483961 5.638584e-01 1.2621008173 2.5809854150
## 1325 0.227446802 -1.2400986238 2.481662e-02 1.9929433167 0.4449743267
## 1326 1.301283277 1.3097388160 -4.089668e-01 -0.4446705780 0.1691279868
## 1327 -0.830370906 -2.0313673248 -9.797526e-01 1.0486712978 0.0873884534
## 1328 -1.689665443 1.3755375549 -1.091577e+00 -0.5883683638 -2.6321024661
## 1329 -1.392574661 0.6775467853 6.839824e-04 1.0928538063 -0.7824530654
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## 1331 0.774179227 0.0846664377 -9.286565e-01 0.5862085785 -0.2043788634
## 1332 0.640343753 0.0312362755 -5.020936e-01 0.2681803348 -0.2573664100
## 1333 0.260633144 -2.3771199069 3.615777e-01 1.0454621698 1.3823956157
## 1334 -3.054868942 -1.1963809351 -9.774537e-01 0.0904964789 -0.8202200374
## 1335 0.226222420 -0.7723754214 -5.068505e-01 0.4878186796 -0.1015962386
## 1336 -1.845740360 -0.1470656002 -1.462405e-01 0.5053651965 0.0801140244
## 1337 -1.190124931 1.0118058264 -1.649210e+00 0.4128057984 -0.6084541335
## 1338 -1.867522159 1.3293888458 -1.136663e+00 -0.7835903640 -1.2632447500
## 1339 -0.692622760 -0.3193394293 -1.109841e+00 -0.7865004849 0.5547268878
## 1340 0.401625705 -1.8080002731 -1.241008e-01 1.7924207730 -0.3494926516
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## 1342 0.535341419 -0.7118830049 -1.978047e+00 0.7360322944 1.4410171861
## 1343 -2.727757974 -0.1094055562 1.502145e+00 0.1489737429 0.4888026038
## 1344 1.767929798 0.5020057094 -1.297750e+00 0.9483617841 0.0869068426
## 1345 -0.934103944 -0.6505692779 -8.436359e-01 0.0857974115 -1.5753973506
## 1346 0.988480233 -0.9720225710 1.092795e+00 2.4013833781 -1.1132402825
## 1347 0.242853217 -1.1033020054 -6.912279e-01 0.2647545523 1.2113664705
## 1348 2.812615700 0.5506003764 1.299679e-01 -1.1435398915 1.6749753641
## 1349 0.417592366 -0.4342689816 -2.828634e+00 0.0509054941 0.0419470390
## 1350 -0.035132092 -0.8309503054 -2.592108e-01 0.6378900366 0.1686107948
## 1351 -0.334580475 1.6865035064 -1.836191e+00 0.1653906390 -0.4455541963
## 1352 0.328533367 -0.2201260525 -4.521171e-01 1.2185087071 0.4702302318
## 1353 1.110596588 1.1609858830 -2.611385e+00 -0.1371419611 -0.0141233861
## 1354 -0.547987696 -3.1675761273 -5.511199e-01 1.8936629682 -0.8838685395
## 1355 1.345297182 -0.8736146266 -1.389207e+00 -1.3951614256 0.9875015373
## 1356 -1.600632229 -1.0524139118 7.175014e-03 0.9203634469 1.3562490752
## 1357 -2.112019484 0.8092857828 -1.048077e+00 1.5368976668 -0.4502920285
## 1358 -0.315712966 0.5928821899 -1.622756e+00 0.5387397663 -1.6781363065
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## 1360 -1.131448835 -0.0774669091 1.543053e+00 1.2569897858 -0.7462848757
## 1361 0.096960039 -0.4431800633 -1.454554e+00 -0.6714778049 0.2148980260
## 1362 1.264798243 0.9014069338 -5.125946e-01 -0.3441702985 0.0504279966
## 1363 1.713101963 1.4636157422 -3.862541e-01 -0.0102033511 0.7373838753
## 1364 -0.183287333 0.5726508582 -1.568569e+00 -0.2347377209 1.6734087029
## 1365 -0.969985488 -0.4246811319 1.712048e+00 1.1654866380 1.6936700424

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## 1366 -0.636487940 -0.4957502016 -1.223296e+00 -0.3417343985 -0.9669100533
## 1367 -2.220641457 -0.3985509958 -4.474522e-01 0.3847467661 2.4767338558
## 1368 0.260116492 0.7693463520 -6.993438e-01 -0.6988904703 -0.8907513007
## 1369 0.669936781 -1.3579886549 -3.248073e-01 1.0089533841 0.5121755718
## 1370 -0.865606392 -1.9858006025 1.005265e+00 -0.3915351608 -1.0817934473
## 1371 -0.586138595 0.9795911516 -1.292929e+00 0.0729889614 -0.7544714131
## 1372 -2.479673288 0.6385493093 -1.670708e+00 0.6887239868 -1.1678392747
## 1373 0.198609508 0.2017564182 -1.859862e+00 -0.4361864030 -1.0401474087
## 1374 -0.279922178 -0.9980237605 8.553553e-01 1.0517006482 -1.3473844585
## 1375 -1.879148656 -0.8178322416 6.216852e-01 0.3573642740 0.6063918491
## 1376 0.669140336 -1.6567110330 -9.118921e-01 0.3966476358 0.9179369396
## 1377 -1.160087441 0.1463592928 3.071586e-01 -0.5883660414 1.0538543862
## 1378 -0.096282042 1.4537366323 1.452979e+00 0.6187123374 1.6963225998
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## 1381 -1.307381634 -0.5281980424 -1.838099e+00 -1.0708077238 0.2845754085
## 1382 1.085100540 0.6547575775 -2.573824e-01 -0.8628479018 1.2407217928
## 1383 -0.123679880 -0.4230102011 6.832070e-01 0.4823908782 -0.6019716686
## 1384 0.483966032 0.9457246301 -1.849091e+00 -1.2942697398 1.3604258224
## 1385 -1.069825270 1.5575345114 -5.351420e-01 -0.1162074931 1.4467226152
## 1386 -2.100507581 0.3111769093 5.679293e-01 0.3573374398 0.3505515924
## 1387 2.681009338 0.8908660248 -2.278475e+00 0.6153873597 -1.0379842076
## 1388 1.493528007 0.3588680184 -3.241140e+00 0.6951789464 0.5732969714
## 1389 0.085369557 1.1640116703 1.091619e-01 1.8196690389 0.6700971711
## 1390 0.545137838 0.9861327394 -7.018553e-01 2.1202150616 -0.2047124911
## 1391 0.380215159 -1.8560803744 4.517643e-01 1.3687914045 -0.0175648965
## 1392 -1.235368206 0.7807407431 -1.909624e+00 0.0310167565 0.5702102526
## 1393 -0.862300611 0.0210223866 5.887685e-01 -0.9997803865 0.1593822237
## 1394 -0.279764352 2.0526027835 -4.283158e-01 0.6390161272 0.4042186943
## 1395 -0.256594114 1.1937947538 7.711326e-02 0.3377305685 0.9887855624
## 1396 -0.801288880 -2.1543847086 -8.291251e-01 -0.1164913924 1.5592637078
## 1397 -1.526306307 -2.7276384805 -2.172006e+00 -1.3825819425 0.3279269226
## 1398 -0.591126662 0.5849358212 -1.610090e+00 1.2545942910 0.6635786180
## 1399 -0.023657493 -0.0772361713 1.189153e+00 0.9152806485 0.7078573424
## 1400 1.300346846 -0.0916389664 -8.201291e-01 0.4667052847 1.9153719461
## 1401 2.114186954 -0.6466296878 -2.273318e-01 -0.3766271011 -1.2264460745
## 1402 0.376517563 -2.0358647787 -1.294688e+00 0.6583129656 1.3771772698
## 1403 -0.354069575 -0.7083393935 2.327163e+00 2.7802565567 -1.1566466625
## 1404 -0.085571551 -0.0982301172 -3.026851e+00 1.2965300096 0.5976095748
## 1405 1.616685315 -0.2594127423 4.676587e-01 1.1282935856 2.3999693360
## 1406 -0.353012302 0.6275299484 2.543306e-01 1.9734556892 0.5179302964
## 1407 0.578435457 -0.4169293411 -1.220486e+00 1.0225010226 -1.5781412458
## 1408 2.441882464 0.4387479466 -1.713796e-01 0.9104365998 1.5792758892
## 1409 2.081550910 2.1039966989 -4.444163e-01 1.5646486152 -0.8757564938
## 1410 1.083096121 0.1691177930 -5.787098e-01 2.3545917537 -0.9678926889
## 1411 -0.953750295 0.7745761178 -2.128281e+00 -0.0425568664 -0.9907090193
## 1412 2.489148455 0.5501999003 -1.680972e+00 0.9707168246 0.1446078296
## 1413 2.039275593 1.3075587513 -8.705347e-01 0.0939707044 -1.4282933600
## 1414 0.280663440 -0.7561994949 1.473846e+00 0.1441538800 -1.3759621247
## 1415 1.839659250 -0.1010422298 -2.133670e+00 -0.7243858604 -0.1756453467
## 1416 -0.281327487 -0.5224332684 7.981855e-01 1.0267358114 1.4815901706
## 1417 -1.368488180 0.5088548371 -1.742679e+00 -0.2997400768 -0.3339415721
## 1418 -1.581645237 0.7891863377 -4.488734e-01 -0.9723509337 1.1478253050
## 1419 0.784119614 -0.5295518898 -1.326544e+00 -0.0808433121 2.3826376427

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## 1420 -0.975494321 -1.4536694623 -4.635099e-01 0.3277864282 -0.0327294235
## 1421 -0.818630599 1.1699451356 -6.389963e-01 1.2755188343 0.7853603517
## 1422 -0.122453550 -0.3169740682 -6.441176e-01 0.4307472698 -0.2780607739
## 1423 0.422949435 -0.4056962010 7.254219e-01 0.2834598938 -0.8106873302
## 1424 1.307974672 1.5026515292 1.375500e-01 0.7828201750 0.4909273950
## 1425 0.622631004 1.7623895061 -1.105725e+00 0.2540968393 -0.0722307043
## 1426 1.309561497 -0.4850750097 -8.797987e-01 1.8586998847 -0.8453062078
## 1427 1.792446079 -0.2491522442 -1.763270e+00 1.4572112278 0.7581920010
## 1428 -0.301858289 0.4566987776 -1.981064e+00 -1.0133417118 1.5865410226
## 1429 -1.326762177 0.3241441024 -1.836886e+00 1.4197324999 0.7196827900
## 1430 0.746413453 0.0612417632 -1.578534e+00 0.2135648771 1.9618721023
## 1431 0.462584797 -0.3328768239 -2.360369e+00 1.7469346309 -0.0748488008
## 1432 -1.776943550 1.0186407950 -8.780736e-02 1.0499452740 0.3605154748
## 1433 -0.380811377 -0.5101767962 -8.480638e-02 0.8227275304 0.4078837447
## 1434 -2.532889494 -0.5141549300 -2.289677e-01 -0.3959948830 -1.5148516907
## 1435 -2.761182283 -0.7515845140 -1.032119e+00 0.1689725496 3.6758100827
## 1436 0.490676310 0.2740913871 5.419774e-01 -0.4051475937 0.2194712989
## 1437 -0.189009204 0.6470751286 2.423514e-02 1.6285732516 -1.5215748726
## 1438 0.839033784 0.8364409329 -1.907740e-01 1.0638717087 2.8025822793
## 1439 -1.482888796 -1.2158858793 -7.752794e-01 2.0404780795 0.5964012501
## 1440 -1.939574146 0.3942741885 -1.225945e+00 0.6164087513 0.4433666516
## 1441 -1.342454821 -0.0822526413 -1.196160e+00 1.1558957636 -0.4342068605
## 1442 0.515878339 -0.2158318863 -7.154404e-01 0.9597308086 2.2873176064
## 1443 -1.453227823 -1.7260362954 -8.654238e-02 1.3118481239 0.1347189931
## 1444 1.021577527 -0.0336636805 -1.554340e+00 0.6319047362 1.9250000136
## 1445 1.662195916 -1.6584096121 -9.295575e-01 -0.3793236966 -1.3819130311
## 1446 -0.312244215 -0.3490695891 -2.234948e+00 0.5331343071 0.6594864861
## 1447 -2.156853485 -0.3474383239 -1.079209e+00 0.2754219655 -0.4105510366
## 1448 -1.530382998 -0.7397767981 -1.227783e+00 1.7146532435 2.0728419404
## 1449 -1.799654272 0.9888189451 -6.790503e-01 1.4012351867 0.2855450321
## 1450 1.181968732 1.4640043687 -1.345670e+00 0.6079454468 -1.9477529932
## 1451 2.387249950 -0.6305260555 6.526152e-01 0.1528537912 0.7145093886
## 1452 -1.027028901 0.0887236293 -1.770286e+00 -0.9066639242 1.0715997415
## 1453 -2.711001556 -0.9916617878 -1.563039e+00 -0.3544742186 1.1083319538
## 1454 -2.098632461 0.1046688560 -1.694066e+00 0.1316684003 0.7787252377
## 1455 -1.210592770 0.9405025778 -8.450033e-01 1.2411226523 0.4345986432
## 1456 0.739173585 1.1631921956 -3.769345e-01 -0.6939243865 0.8402955481
## 1457 0.478187416 -1.0731638723 1.244337e-01 0.2970627579 0.8612111803
## 1458 -1.293822298 0.3976750534 -1.536265e+00 -0.0102100217 -0.9052287889
## 1459 0.160537656 1.1194921044 -6.551839e-01 1.9255553790 0.9752279166
## 1460 0.576408677 -1.1155817034 9.515862e-01 2.1491603086 -1.2324993460
## 1461 0.928534088 -0.6455850648 -2.370981e+00 0.4460821416 -0.5731689202
## 1462 -2.370458615 -3.1834275911 -3.600654e-01 2.5453473415 -0.2027225271
## 1463 -1.012423212 -0.7913389746 -3.312849e-01 1.0284515285 0.9651797896
## 1464 1.400060711 0.4735233729 -2.077838e+00 0.3427773422 0.8831533880
## 1465 -0.737297718 1.5143578535 1.012953e+00 1.3729353848 -0.7502289286
## 1466 0.513687771 0.6498516829 2.314285e-01 0.0503014808 0.8080471261
## 1467 1.359300089 0.5795655206 -3.540497e-01 3.6246762576 -1.0361440844
## 1468 -0.093037893 -1.0073285649 -1.591492e+00 -0.8516446688 0.3937932501
## 1469 -0.711097396 0.7118083071 -7.355112e-02 0.2934837406 0.1084045856
## 1470 1.049579915 1.2489219549 -2.015261e+00 0.3302986199 -0.0875908653
##          PC10          PC11          PC12          PC13          PC14
## 1      -2.192148e+00 2.162257424 0.221689882 -0.6664419443 0.4452430452
## 2       7.375005e-01 -0.892781469 -2.190768017 -1.4195861185 -0.4059923327

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## 3    -1.246560e+00 -1.463713405  1.477527187  0.2310424460 -0.4268594994
## 4      9.525830e-01  1.367252364 -0.670584496 -0.1190459385  2.0865670132
## 5     -7.433329e-01 -1.995997718 -1.098300975 -1.1160217881  0.1585913076
## 6     -1.493696e-02  0.520378257 -0.015477510 -0.2322502210 -0.2417911914
## 7     -9.903756e-01  1.196488307  0.398861592 -0.4072773404  1.0248861534
## 8     -8.105346e-02  0.757025297 -0.472578883 -0.0956751536 -1.7296461608
## 9      7.255288e-01 -0.178355622  0.539489079 -0.2774634914 -0.3010622616
## 10    -4.729487e-01  0.609640782 -0.449709638  1.7704770097 -0.7144859657
## 11    -5.581076e-01 -0.450248399 -1.749281111  0.1050358986 -0.8189341500
## 12      3.228798e-01  0.666155286 -1.118808995 -1.4575061920  0.8445906428
## 13    -5.801226e-01 -0.172102225 -1.388605116 -0.4895146305 -0.8223774282
## 14    -8.342398e-01 -0.452220541 -0.632099693  0.4738486824 -1.4115918782
## 15    -4.007578e-01 -0.339265427  0.001980232 -0.4761828433  0.3342305708
## 16      2.597345e-01  0.640364680 -0.626426298 -0.3356408721  1.0173211333
## 17    -9.811178e-01 -0.286443680 -2.268739189 -2.0697012519 -0.4093973165
## 18      5.447162e-01  0.258797385 -0.012598717  1.0423187341 -0.9031824283
## 19    -1.888358e+00  0.315407411 -1.508170826 -0.2813603835  0.7949435732
## 20      3.461908e-01 -0.219914772  1.411109959 -1.8172221438  0.7742048298
## 21    -7.541442e-01 -1.236820209 -2.810133275  1.2325334393  0.4577262240
## 22     -6.649219e-01 -1.457470376  0.586122363 -0.2181747389  0.6196739402
## 23     -8.881476e-01  0.504561390 -1.766592776 -1.1422027191  1.2051393553
## 24     -2.461155e-02  0.090404332 -2.470633040 -0.5651244045 -1.1628577418
## 25     -6.202443e-01 -1.243481683 -1.009963899 -1.0727778007 -1.3443805301
## 26     -1.286875e+00 -0.314503519 -0.337568795  0.6606098539  0.5583670450
## 27     -1.927633e+00 -1.427053341 -1.644601645  0.3372672757  1.0781925295
## 28      9.862187e-01 -0.346949639 -0.346636298 -1.0747590087  0.1287013680
## 29     -1.705151e+00 -1.636311555 -0.185650512 -0.1712376894  2.3898440852
## 30     -6.384388e-01  0.294207863 -1.826804047 -0.8285092080 -0.1045316140
## 31     -1.545274e-01 -1.075903644  0.311944527 -0.3423523022 -0.0986635940
## 32      8.694515e-01 -0.535227908  0.114440234  0.8629977851  0.1524635672
## 33     -9.108864e-01  0.114973278 -0.091879769 -0.4487669648 -0.7893708226
## 34     -6.065259e-01 -2.497526604  1.092047820  0.5079709925 -0.1766299368
## 35     -2.243921e+00 -0.453996399  2.045118530 -0.7787437693  0.1059128317
## 36      1.666088e-02  1.331798380 -1.290516976 -0.2410527801  0.5506919740
## 37     -1.708064e+00 -1.912127626  0.051069809 -1.3886834619 -0.4156652494
## 38     -7.718990e-01  1.302041318  0.499219401 -0.7368851426  0.5536196531
## 39      5.100115e-01 -1.196928866 -1.297907326 -1.7263410077  2.3581332717
## 40     -5.650028e-01  0.068368538  0.599644894 -0.7770182043  1.5723599679
## 41     -5.915278e-01 -0.901162950  0.013652089 -0.8255750992 -0.7363163656
## 42     -4.706730e-02  0.213498968 -1.511834354 -0.4741824103  2.2758523085
## 43     -2.247302e+00 -0.912579757 -0.427020355  1.3112002240 -0.0180905569
## 44      1.312395e+00 -0.851765482  1.190064580 -0.7778295158 -0.0212788753
## 45      3.541186e-01 -0.369042402 -0.521105849 -0.4899435485  1.0373458237
## 46     -4.834196e-01 -0.839805541 -0.097638699  0.6948418607  0.1205918120
## 47      1.402884e+00 -1.085783492 -0.442376891  1.4304203617  0.1618971029
## 48     -3.015786e-01  0.114003367  0.203831141 -1.3996019741 -1.0825634419
## 49      4.599192e-02 -0.398176823 -1.020517155  0.2371042609  0.1054115176
## 50      2.826556e-01  0.009890705  0.362976509 -0.8931906916 -0.8700845028
## 51     -1.112834e+00 -1.580392713 -1.501302654 -1.6204821975 -0.5158510154
## 52     -8.515032e-01 -0.610050108  1.474946189  1.1173927408  0.2771451681
## 53     -6.546754e-01 -0.201198266  0.606520944 -0.7678918740  2.1336516863
## 54      1.242336e-01 -2.187373017 -0.985556474  0.7427960619 -0.4943545598
## 55     -4.061865e-01  1.433941333 -0.538003342  1.1929347745  0.9567502300
## 56     -4.373989e-01  0.439564445 -1.555906761 -1.7206689070  0.5058593662

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## 57	7.413539e-01	-0.901350927	-0.896795113	0.1191660432	0.4157240402
## 58	6.668158e-01	0.538754357	-0.334977492	0.6115166731	1.6532948959
## 59	2.090855e-01	0.028325171	0.599535325	-0.9750565362	0.7867817886
## 60	-1.134839e+00	-2.011638577	0.670271004	-1.5868480301	0.9306925824
## 61	-1.117501e+00	-0.687710741	0.970518048	-1.5549841204	0.5486980525
## 62	1.909039e+00	0.507010021	-0.047970521	1.0292897102	2.2508581772
## 63	-1.557302e+00	-0.477427881	-0.978910018	-0.2330181236	0.7005739544
## 64	-7.339054e-01	-0.330088892	-1.628614514	1.1069249505	0.8569210640
## 65	-9.983430e-01	-0.217127757	0.712690377	0.4425578759	1.0637391430
## 66	-6.598217e-02	0.719929735	-0.091631217	-0.8151575674	0.5302418541
## 67	-1.066815e-01	-0.425201067	-1.894682827	0.3257535816	-0.5493033859
## 68	-5.616554e-01	-0.519541342	-0.812489269	-0.9191910234	-0.8390011136
## 69	9.160438e-02	-1.988227421	-0.230828800	-0.5725770025	0.5657206077
## 70	-3.851271e-01	0.951433667	1.217961577	-1.1752120696	-0.7483567939
## 71	-1.229914e+00	-0.193768751	-2.303709528	0.3354453644	1.0735149821
## 72	9.519649e-05	-0.942279423	-0.137203920	-1.3438058643	-0.0539706534
## 73	-1.979552e-01	0.037613546	0.067188123	-0.2238216182	-0.2426374088
## 74	-1.063712e+00	-0.667934815	0.250123406	-1.9992697632	0.0834232990
## 75	-4.201824e-01	1.592547536	-0.984649911	-1.5189184579	1.0023985910
## 76	7.746943e-01	1.273088531	-0.807348202	-1.0427491286	1.2827123820
## 77	1.182630e-01	0.033753518	0.822707824	-1.0579417014	0.6782622075
## 78	1.066563e+00	-0.948477377	1.077552160	-1.5030972985	-0.4374870089
## 79	-6.913449e-01	-0.346347569	0.361527975	-0.7016729069	-0.3018628662
## 80	2.068944e-02	-1.529509145	-0.429014508	-1.3046849466	-0.3045938480
## 81	-8.664139e-01	0.674003295	0.204999975	-1.6328690922	-0.5763862601
## 82	-1.336287e+00	0.340624763	0.680606038	0.1718847789	0.1983062990
## 83	-1.123086e+00	-1.144675573	-1.794258559	-1.8974624840	-0.9409312416
## 84	5.346920e-02	-1.801236325	-1.555122126	0.3124012328	2.8455395901
## 85	-1.011101e+00	-0.819869839	-1.110462717	-0.8386889442	-1.3172124746
## 86	-1.930818e+00	1.098120849	0.928765892	1.0350391801	-0.2008831179
## 87	-3.606566e-01	-1.968611049	0.021506994	-1.0814680571	-1.0580133527
## 88	4.334983e-01	0.828368065	-0.143399398	-1.0507511472	0.0875354197
## 89	-1.131908e+00	0.276544766	0.002903242	-1.7352343399	0.1685649035
## 90	-6.096441e-01	-1.465970035	-0.262525070	-0.1796044010	-0.8832132751
## 91	-1.003158e-01	-1.262775321	-0.887621468	-0.8697074787	0.5242473533
## 92	3.021797e-01	0.871024383	0.463242499	0.1724133782	-0.5476328174
## 93	-1.844819e+00	0.773288063	-0.853572205	-0.0408835444	0.9053779344
## 94	-1.058651e+00	-2.079095217	0.383329938	0.0572597838	1.1048306384
## 95	2.698891e-02	0.974664619	0.842238201	-0.4090931687	-0.7809656582
## 96	-3.052627e+00	0.817854367	-0.146078431	2.0388135229	1.3020052276
## 97	-2.516481e+00	0.828844578	0.260584240	0.3003158001	0.1827302155
## 98	6.567981e-01	-2.175671252	0.322032872	-0.5537685088	0.4918823422
## 99	5.586817e-01	1.068222970	0.970392221	0.0037148222	-0.7833924976
## 100	1.848413e+00	-1.468047136	-1.945871922	1.0607348341	-0.0558321157
## 101	8.857057e-01	-0.307368481	-1.043581293	-1.9607654371	0.8669776919
## 102	6.528945e-01	-0.341467178	-0.906694517	-1.9540518030	-1.1330133096
## 103	-7.148176e-01	0.712567943	-0.942391063	0.1981202239	1.4954509173
## 104	-7.333258e-01	-0.220793476	0.127586964	-0.0399903557	1.7725446614
## 105	7.447148e-01	-2.074230513	-1.694701904	-0.3209691291	-0.1175781251
## 106	1.678414e-01	-0.681164263	-1.228071390	0.8629892539	2.4327945995
## 107	-2.056613e+00	0.624498087	-0.057480751	-0.6517000057	0.2445813284
## 108	5.981376e-01	-0.389846369	-0.294035575	-1.8682698833	-0.2393215179
## 109	-2.291981e-01	0.319998704	-0.667619571	-0.0874210329	-1.1653364058
## 110	-6.393122e-01	0.880111869	-1.850045602	0.4851335160	0.5539166008

```

## 111 -5.269454e-01 -0.170860092 -0.553736509 0.9842437828 2.4857800839
## 112 -5.942993e-01 -1.613774228 -1.707794021 -0.6720625673 0.4524697553
## 113 1.747394e+00 1.230098302 -1.072685985 0.2967705418 0.8785375506
## 114 -7.394773e-01 -0.003838383 -0.992443839 -0.4227067404 -1.2345693427
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## 117 -1.236177e+00 -1.352707791 -0.825290006 0.7110221606 1.4993091748
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## 119 -2.365242e+00 0.021132402 0.679939225 -1.2474699864 1.3990923861
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## 165 6.925221e-01 -0.646487655 -1.177070126 0.9859195223 0.3467576155
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## 324 -1.734016e+00 -1.199975282 -0.896797780 0.5700436060 0.7508683224
## 325 6.999874e-01 0.930647930 -0.731492509 1.0985160481 -0.1468985986
## 326 -7.374563e-01 0.565656227 -0.032266887 -0.5197337657 1.0563978684

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## 327 -9.583246e-01 -0.313191811 0.248891227 0.2671815609 -1.2193725817
## 328 -1.448090e+00 1.355248235 0.994714286 0.2294651433 0.4163668615
## 329 -1.415240e+00 -1.440010958 -0.046414460 1.0986969838 0.5902771498
## 330 -1.466367e-01 0.517755462 1.479861745 -0.0598506396 -0.2915774824
## 331 -3.737018e-02 -0.524306663 -0.360359787 -0.5940546398 1.6626147365
## 332 1.972234e+00 -0.884900763 -1.342094688 -1.8659206370 -0.9709015365
## 333 9.684873e-01 1.078615030 -0.749948726 1.6130570217 1.8352890757
## 334 -1.215313e+00 0.975546168 0.940485834 -0.4891065424 1.0640767394
## 335 3.302200e-01 -0.224430769 2.278222072 0.1619932594 0.8791181200
## 336 -1.830062e+00 -0.885428328 0.490804513 -0.5128702974 -0.3280722681
## 337 -1.179240e+00 -2.456227180 0.155649659 -0.2283653026 0.8700235580
## 338 -3.341010e-01 -1.076953507 1.863610687 0.4466371493 0.8554202680
## 339 -3.810110e-01 -0.313735563 0.882079413 -1.2909416742 1.7105429587
## 340 -1.324743e+00 0.346820154 0.963199396 -0.2322888126 1.2224284992
## 341 -1.636702e-01 0.585470170 0.246946379 0.1875452037 -0.5887943838
## 342 -6.554700e-01 0.550786125 -0.638192905 -1.3758775974 -1.3659843006
## 343 -2.663073e-02 2.216235883 0.229121701 0.5414365950 1.1983988842
## 344 -6.686390e-01 0.787387965 0.405266714 -1.9505537196 0.3607289867
## 345 1.412039e-01 -0.857064407 -0.144033217 1.1059065182 -0.4377765804
## 346 -5.751628e-01 1.119584774 -1.223511259 0.5287802249 -1.8903542242
## 347 9.347198e-01 -1.095797885 0.111829164 -0.9424383145 -0.2858945896
## 348 -6.604452e-01 0.221429061 -0.988406866 0.7580822171 -1.9506154183
## 349 -8.778659e-01 1.233025455 -0.241856923 0.5152806929 0.3938138549
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## 352 -8.075557e-01 -0.372001575 -0.115957266 -0.2753240956 1.1168129321
## 353 -1.999594e+00 1.677296315 -2.604264332 1.2535604137 -1.9138553526
## 354 2.575168e-01 0.510915422 1.234877476 -0.6712209366 -0.1113922905
## 355 2.009481e+00 -0.955626488 0.019703667 1.4559862055 0.3414980922
## 356 -2.033921e-01 0.494992343 0.203277373 -1.1410557516 -0.1190010311
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## 358 -1.449067e+00 -2.009322133 -1.257002170 0.0270412243 0.0632928187
## 359 5.115305e-01 -0.114278988 0.312924960 1.7946597765 2.4816192142
## 360 -1.314267e+00 -1.439391331 1.712589531 0.0181677625 0.8190248503
## 361 3.348687e-01 -0.747691208 1.461346429 -0.8367331467 -0.2420042468
## 362 1.291436e+00 2.301217488 -0.190638161 -0.4410495057 1.7643966812
## 363 -5.867593e-01 -1.734367500 0.250037386 1.2895086122 0.0666355972
## 364 1.920845e-02 0.651371031 1.387142981 -1.4206483134 1.1977089695
## 365 1.095453e-01 0.520572162 -0.788701002 -0.1942324936 0.5401153932
## 366 1.473219e+00 -0.729366616 0.002881923 1.0873664934 1.9809003959
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## 368 1.202471e-01 -1.612133321 1.064858133 1.0320168855 -1.1513117870
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## 372 1.269062e+00 0.402088563 -0.400058485 1.1329816952 0.0303748062
## 373 -3.569814e-02 -0.529436198 -1.053360134 -0.0373024294 0.1003405816
## 374 -2.328692e-01 0.277564917 0.293384991 -0.4117943373 -1.1258705973
## 375 1.030836e+00 0.382261848 -0.668067349 -1.5787791793 -0.7105536044
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## 377 -6.108377e-01 1.612190927 -0.858987686 0.2707495413 0.1008430147
## 378 6.133418e-02 1.015448573 -0.163818401 -1.6678582398 1.0480538669
## 379 -4.883482e-01 -0.925379784 0.416570134 2.2564083547 0.1141163613
## 380 -4.189023e-01 1.824556817 -1.109356219 -0.6522441849 -0.6151822595

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## 381 1.185034e+00 0.019545721 0.142854711 -0.8758979440 0.8614072560
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## 384 4.377897e-01 0.121886395 -1.452791793 -1.1992065744 0.9214803470
## 385 -1.326561e+00 -1.662133926 0.943155143 -1.5700798087 -0.4908882753
## 386 3.451099e-01 -2.398711120 1.856965850 0.4524316190 0.9623616392
## 387 7.852154e-01 2.134071508 -1.694517439 -0.2057106465 0.9719199897
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## 389 -6.148709e-01 0.476850553 -1.740202057 -1.6624117528 1.5645317410
## 390 5.927335e-01 0.900382266 -0.110187375 -0.0934960253 -0.1106864606
## 391 -1.716093e+00 -1.581554365 -0.304425623 -0.6022736349 -0.4010055123
## 392 -1.272720e+00 -0.354463284 -0.179371742 -0.6202954107 1.0009583831
## 393 -2.213535e+00 -1.569036474 -1.026623958 -0.1748090456 -1.9249574889
## 394 1.744330e-01 -0.098267724 0.379365222 1.4277222079 2.1144800738
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## 396 1.429681e+00 0.374800421 1.389197601 0.4692675640 -0.1011069091
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## 398 -1.532118e+00 0.910577112 -0.858129141 -1.0356996005 0.0029736912
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## 401 -1.357954e+00 -1.086757130 -0.617331549 -0.9018660094 -1.3650742376
## 402 1.303449e+00 0.318045104 -1.149648419 -0.6712645110 0.8682157615
## 403 -1.194492e+00 0.413560292 -1.206115870 1.6525166779 -0.1691348123
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## 405 4.419055e-01 -0.794774080 -0.967088438 0.0694887828 -1.4401309773
## 406 -1.436267e+00 -2.295747842 -0.867890322 -0.5248907294 -0.0638950136
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## 420 -3.057288e-01 0.281768705 -0.125864052 1.6788316237 1.0124322118
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## 422 9.702167e-01 -0.582239757 0.437406556 0.8409971937 1.2641692200
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## 424 1.108191e+00 -1.207796822 -0.308093172 2.5315627584 1.0845818339
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## 435 -2.548360e-01 -1.212839740 -1.527321540 -0.7768514081 -1.0079600773
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## 443 7.573967e-01 -1.202547331 -0.070883959 1.5909089963 0.6916786923
## 444 -8.259617e-01 -2.308550401 -0.060386128 1.4798580455 -1.1121817539
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## 459 7.383951e-01 -2.564844642 -0.414931772 2.4981962127 -0.6503337895
## 460 -1.029336e+00 -1.194363409 0.933056832 0.8454127268 2.2557106959
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## 463 2.261457e+00 1.192441719 -0.504985385 -0.5431791787 -0.7076732941
## 464 -1.397254e+00 0.563885246 0.381113991 2.0270590954 -0.8991358079
## 465 3.156626e-01 -0.415365231 -0.789444906 0.0280653567 0.4066977830
## 466 -1.346856e+00 -0.698036872 -2.249256277 1.6565390164 -0.5965242057
## 467 -5.679648e-01 -0.172827478 0.476401839 -0.6938447270 1.6574275552
## 468 8.128253e-01 -2.150033354 -2.563497578 0.5788907582 0.5546879745
## 469 6.570795e-01 -0.064125184 0.321934682 -0.2438368944 -0.7966285193
## 470 2.575781e+00 -1.138800147 0.117644171 2.2037797584 0.3368767809
## 471 1.185023e+00 -0.684677515 0.816177579 0.9209758236 -0.1656946106
## 472 -5.756414e-01 0.828492890 -1.293140568 1.0743302140 -0.0488321275
## 473 -7.778937e-01 0.943222388 0.031259106 -1.2219758887 1.8652361440
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## 479 3.454908e-01 0.296397122 -0.568349123 -0.6085450613 -1.4710988999
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## 481 9.290359e-01 -2.099643633 -0.592855380 -1.0605643757 0.3394612406
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## 484 -4.825403e-01 -1.319317801 -0.846499488 1.1805391956 -1.0717254827
## 485 5.082662e-01 -1.974265844 0.078092695 -1.2316669727 0.3151257434
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## 495 5.704896e-01 -0.858722916 0.738108633 -0.5274698756 1.3185666832
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## 504 -6.609137e-01 -0.271816225 0.884423112 0.2365330436 1.8232514450
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## 508 -2.923801e+00 0.357357830 0.303816954 0.6153556410 0.2286892118
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## 510 -7.982707e-01 0.108820906 1.279512184 0.7008127894 0.8108725886
## 511 1.401142e+00 -1.030178105 0.567638723 -0.7509712491 -0.7834221307
## 512 -7.119328e-01 -1.017810249 0.031540094 -0.6648134253 -0.7785721454
## 513 -1.676144e-01 -0.824119043 0.736458419 -0.2959908014 0.1095017704
## 514 2.136745e-01 0.080079723 -0.938979447 0.6260021617 -1.0281824140
## 515 -1.066870e+00 -1.240789676 0.785894367 -0.5193472781 0.6804073469
## 516 5.920025e-01 -1.159299069 -0.403508441 0.1303085125 1.1231767964
## 517 -4.880573e-01 -0.931698558 0.785654183 -1.0973128574 -0.4817964303
## 518 9.889404e-01 0.494103948 -0.161227743 -1.1865548235 -0.9086761454
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## 533 1.851581e+00 -0.370285887 0.817004953 -0.3796423828 0.0368837952
## 534 1.974768e+00 -0.219887951 0.306378718 -1.2448138687 0.8474940952
## 535 2.005646e-02 0.228661811 0.116172557 -0.6237802677 -1.4318822975
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## 537 9.269405e-01 -1.219491243 -0.221881497 0.1848857882 -0.2231712277
## 538 1.488075e-01 -0.887761834 0.053279967 -0.9156856979 -0.0215751655
## 539 -6.855448e-01 0.542714018 0.101297422 -1.8784881055 -0.7505878002
## 540 1.893991e+00 -0.922577581 1.045379954 -1.1761079952 0.7790155499
## 541 -1.760819e+00 -1.994763073 -0.882282065 -1.1945968651 2.2221942416
## 542 4.477924e-01 0.182212520 -1.130160963 -0.2680118693 1.3858227397

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## 543 7.410001e-01 0.076715527 -1.349781102 -2.2039447085 0.5619608869
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## 545 9.394062e-01 -0.581443363 0.413948855 -0.6275487830 1.9105329095
## 546 1.900256e+00 0.829514918 -0.715808655 0.4393432658 -0.1663070684
## 547 -7.036428e-01 -0.463723442 -0.421359667 0.4845413439 -0.8713590684
## 548 1.982347e+00 -0.559398060 -0.258340107 0.6756688414 -0.0476757979
## 549 6.781121e-01 -0.043977608 -0.808198681 0.9081054204 0.0432687584
## 550 -4.459941e-01 -0.325063550 -1.018586240 -0.0597697725 -0.1899237202
## 551 3.072000e-01 -2.163966029 -0.132791214 -1.3801258010 -0.8420685324
## 552 -2.716394e-01 1.847691479 -0.549272369 -1.2849400613 1.9652686566
## 553 -1.503324e-01 0.558937228 0.373883843 0.4461726605 -1.2879404090
## 554 1.164041e-01 1.511313894 -1.014438087 -0.6436524088 -0.2736851015
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## 559 1.113644e+00 -0.161876457 -1.719279198 0.1957639801 -0.0695842728
## 560 8.717331e-01 1.680784287 1.916073334 -0.9830989416 0.3182472957
## 561 -9.130722e-02 -0.581854057 0.342683679 -1.5502376441 2.3543156720
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## 563 2.576762e-01 -0.217828829 2.578201065 -0.3811390490 0.6248842926
## 564 -9.031505e-01 2.028249925 -1.116972812 1.7568759672 -0.7837599476
## 565 -2.009959e+00 -1.200278944 1.495450932 0.7202449251 -0.7936656671
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## 597 1.368959e+00 1.736679253 1.442227515 -0.9131375963 1.5045128198
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## 621 -1.804437e-01 0.666871000 -1.761484358 1.8388031331 -0.3406700883
## 622 -5.324877e-01 -0.150825229 0.967403083 -1.4989696980 -0.1615726735
## 623 -4.769693e-01 0.050700845 0.127864951 -0.8652735390 -0.1792786434
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## 626 1.134564e+00 0.124837812 0.059112950 -1.0468022425 -1.1407493660
## 627 4.709337e-03 1.566935636 -1.248623579 -0.1170315115 -0.2672850063
## 628 4.967550e-01 0.381609205 -0.993663626 1.9526691426 -0.0316592503
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## 645 8.347683e-01 1.354321431 1.685413666 -0.3348774723 0.2524532612
## 646 -6.023299e-01 -0.549201776 -0.433014880 -1.2883630687 1.8830852084
## 647 -7.744566e-01 -0.326273442 -0.829567046 -0.0413407702 -1.3635473329
## 648 2.271901e-01 -0.236340775 1.586910508 1.2503731933 -1.5013996630
## 649 3.891789e-01 1.001681766 -0.621603244 1.9754628264 0.3604789565
## 650 1.829083e+00 1.988824809 0.126261129 -0.5559553077 0.1256527647

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## 651	9.132975e-02	1.741936547	0.313220289	-0.2311685602	1.7052836565
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## 659	1.059565e+00	-0.644642382	0.141117038	-2.0710966105	-0.3958904744
## 660	-5.522993e-01	0.460359374	-0.345589748	0.0291809571	-1.1968263618
## 661	-1.552158e-01	-1.100769504	-0.076653866	-0.1717652403	0.6129384052
## 662	4.894377e-01	0.030416130	-1.589772849	-2.1759991963	0.8693834174
## 663	-5.411267e-01	0.155710379	-0.513821615	-0.1289541454	1.0862669416
## 664	-1.654399e+00	1.436645431	0.863415048	2.0234627262	-0.9120443149
## 665	-1.586788e+00	1.499459764	1.118751943	0.1822947175	-1.4911701676
## 666	-9.811503e-01	2.386671639	1.504816744	0.3847987436	1.3715620874
## 667	-1.597178e+00	0.243905085	0.160603776	-1.9474402621	0.2584573990
## 668	-1.563334e+00	0.440952811	0.356916250	-0.3889082711	2.4027172150
## 669	-1.440907e-01	0.486624709	0.562839925	-0.0658445755	0.8015581879
## 670	1.994913e-01	-0.725898978	1.385996799	0.1031639595	0.1816143202
## 671	1.158978e-02	1.086272021	-0.832059087	-1.2400383489	0.5179852945
## 672	-6.190442e-01	-0.431892971	-0.075648420	-1.2270908945	-0.4177582870
## 673	-1.421807e+00	0.022800627	0.058282678	0.8690418690	0.4484924785
## 674	1.478149e-01	-0.898383217	2.056031085	-0.4112048560	-0.2414166304
## 675	-6.075525e-01	-1.052309439	0.381502961	0.6863762823	0.8362017674
## 676	4.140631e-01	-0.873276884	1.221717203	-1.6808003302	0.8000660269
## 677	-1.289419e-02	2.795367304	-1.081871352	0.4687158371	-0.3124491822
## 678	-1.266836e+00	0.353124215	-1.178173632	0.3404741323	0.3632270968
## 679	-1.977755e-01	0.833049508	2.583236890	1.7528233363	-0.1148659662
## 680	1.544114e+00	1.059013903	-1.631469277	2.0031125434	0.3778243683
## 681	-9.386437e-03	-0.217382401	-0.440408890	0.3577589928	-0.2246147326
## 682	-7.778515e-02	0.484402439	0.432176626	0.4677561517	0.0885310416
## 683	3.316526e-01	-1.290546014	-0.282264823	0.5122097121	2.2637171522
## 684	1.481156e-01	-0.524348952	-0.014333787	-0.4304146497	-0.6387571872
## 685	-1.332359e+00	-0.157387924	-0.159007046	-0.2120605748	-0.7123394739
## 686	1.122024e-01	-1.048508225	1.191419970	0.4447774043	-0.0368760462
## 687	1.223415e+00	-0.488668952	1.569804412	-1.2462038241	0.3396158188
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## 689	8.725190e-01	-1.118627720	1.557031205	0.0218647694	-0.6375040274
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## 691	-2.329795e-01	2.285499700	0.472204047	0.3726823396	1.0044936061
## 692	2.435835e+00	-0.334490572	0.483544616	0.8362298814	1.0181383700
## 693	1.106480e+00	-0.261344614	-0.328681149	-1.4847651157	0.8032689615
## 694	-2.600144e+00	-0.702343226	0.656781264	-0.9174167879	-0.8234056618
## 695	-2.164300e+00	1.087912273	0.583546836	-0.1253615869	0.9453837290
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## 699	-3.829922e-01	0.684020016	0.171427520	0.9755617558	-0.3568879649
## 700	-9.576964e-01	1.096313484	0.885866088	-0.4770627312	-1.4330059601
## 701	2.814376e-01	0.120829630	1.478836461	0.1527516401	-0.4421853747
## 702	5.440341e-02	-1.449793917	0.546597173	-0.0654663486	-0.5529223228
## 703	1.505755e-01	-0.988557339	1.462775630	-1.0742881257	-1.0526829894
## 704	1.663662e+00	0.548572673	0.044788608	0.7180309207	0.2296355573



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## 705 2.774966e-01 0.256185681 1.660056777 -1.0108693936 -0.1784707469
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## 707 8.974912e-01 0.417751153 -2.304124579 1.9787600085 -0.6737229264
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## 709 1.043663e+00 -1.627171616 -1.151469295 2.1501692650 0.1931496549
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## 720 7.157981e-01 1.619081934 0.711573957 -1.4605497178 -0.2095434210
## 721 -5.245263e-01 0.544165060 -0.167034474 -0.8492998973 1.0219765313
## 722 1.242873e+00 0.148496835 0.094896862 -0.2845150076 -1.6311519628
## 723 -1.300536e-01 0.389743721 0.790473532 0.8490609510 -1.5174999240
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## 727 3.035753e-01 0.103608650 -1.330847352 -1.3409828581 -0.1699260886
## 728 1.188919e+00 -1.020675634 -1.069518920 -0.5071383896 -0.3106335354
## 729 2.071688e-01 0.142096788 0.602423313 1.9191093460 0.4108459511
## 730 -8.838761e-02 0.896210897 0.135299345 0.7921742724 0.7992180071
## 731 -5.073914e-01 1.389700595 -1.983852136 -1.9049589078 -0.0895868912
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## 733 -2.967101e-01 0.594744167 -0.623525004 -0.1283619123 0.8379264626
## 734 -8.582878e-02 0.301422202 2.401101565 -0.3619578009 -0.8748324646
## 735 -2.323883e+00 -0.543984088 -0.374128588 -1.2177354677 -1.1263201610
## 736 1.587236e-02 -0.788888281 -0.571743332 -1.6010253965 -0.8099115594
## 737 -3.061841e-01 0.526448126 0.430658625 0.4536376995 0.0525177051
## 738 -1.910113e-01 1.106583973 -0.545477960 0.5865747556 0.6482724679
## 739 -1.004439e+00 0.142030963 -0.257421276 -1.3886585620 0.0680949430
## 740 -1.510154e+00 0.487876121 0.847649773 -0.7111087858 1.4127262927
## 741 -1.688913e+00 0.142266190 1.446339073 0.8516266238 -0.3861072510
## 742 2.277876e-02 -0.870638483 0.466024412 -1.4424145219 -2.4116370701
## 743 -1.109298e+00 0.299536324 -0.698217311 0.1789313299 -0.2460980603
## 744 -1.355713e+00 1.733205557 -0.106826246 -0.4195599695 0.2527646930
## 745 -3.692045e+00 0.148843770 0.042094665 1.6041043893 0.4361605621
## 746 2.062153e+00 -1.004542224 -0.140027547 0.0452700528 0.5838911687
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## 748 1.403838e-01 -0.409415320 2.072988487 -0.8349241849 0.3994944060
## 749 7.657075e-01 -3.065963376 -2.859190709 2.4065211845 -0.3002376003
## 750 -2.273192e+00 -0.940579302 -2.254949365 -0.9250734279 -0.2882479990
## 751 1.343471e+00 1.704591519 0.559320891 1.4008908888 -0.2660217243
## 752 1.096008e+00 1.532246893 -0.859239310 -0.5181188655 0.9249391278
## 753 1.335436e+00 0.722634525 0.786486375 -0.3916472735 1.9626423347
## 754 1.444993e+00 0.315981783 -0.045836506 0.8439013823 -0.0816546148
## 755 7.493782e-02 0.414553496 -2.489552434 1.0461180821 0.1586984441
## 756 -8.064926e-01 0.505190957 -0.330362656 -0.0284167823 -1.1250196794
## 757 2.268250e+00 0.449355564 0.474820439 3.0891423704 1.9009054973
## 758 7.330954e-02 0.088832896 0.272564349 -1.5265279759 -0.5938776345

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## 759 -1.442855e+00 0.078068991 1.374854468 0.6316605907 -1.4996758975
## 760 -1.512300e-01 0.287638121 1.528849066 1.1791464102 -0.0546472317
## 761 8.774370e-02 0.600237411 0.288722824 -0.6671966417 1.5131445582
## 762 -1.786032e+00 -1.275399318 0.538182147 0.9342159742 -0.6972637147
## 763 2.690024e-02 -1.263947725 0.125082440 -1.5682877008 0.7720155380
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## 765 1.806104e-01 0.547963858 -0.716637705 0.3257160882 -2.0508844332
## 766 3.583008e-02 -0.871203881 2.858670499 0.9807550649 0.6827813753
## 767 -7.058553e-01 -0.421613784 0.620573410 0.2807968715 -0.9090546054
## 768 -5.211721e-01 1.313189554 1.496113682 -0.0423503376 0.8859264783
## 769 6.604318e-01 1.013984676 -0.665907726 0.2434601268 -1.3062904591
## 770 -1.469724e+00 -0.569405306 -2.596816035 0.3996111412 0.7256342715
## 771 1.350189e+00 -0.481389007 1.376762239 -1.2046458718 -0.4316006074
## 772 -1.082589e+00 -0.076376743 0.897415897 0.0553579368 1.9810671996
## 773 -8.758415e-01 -0.121251488 -0.453054222 1.4492831552 1.1645341479
## 774 -1.663736e-01 1.799342054 1.475936180 1.1066484637 1.3072597549
## 775 6.739149e-01 -2.389546594 -0.170769055 0.2615224447 -0.6009210171
## 776 -5.050660e-01 -1.301327370 -0.069565005 0.9953661057 -1.2881358543
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## 778 -2.301954e+00 1.018314097 -0.357975507 1.3361850310 1.3090743049
## 779 6.832456e-01 1.509938647 0.655376651 -1.0583400622 1.9830272255
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## 781 -9.221314e-01 -1.275286953 0.199036126 3.5649293555 -1.3864300777
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## 783 2.010369e-01 -0.078768807 0.460917106 0.8955251876 -1.9268247832
## 784 1.979277e-01 0.595999565 -0.186012262 0.0849345267 0.2564978676
## 785 -1.742046e+00 2.327940597 -1.509688785 0.0551590259 -0.6144958083
## 786 -1.884218e-01 -0.772361476 -1.362608026 2.7806148680 -0.5358175943
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## 795 -7.908781e-01 0.483704076 -0.851679088 -0.4020668186 -1.2538806519
## 796 2.830485e-01 1.320168464 -1.379235765 -0.9238903976 0.9095572636
## 797 -3.285046e-01 -1.162366107 2.292983867 0.1372374053 -0.7198076235
## 798 -5.808248e-01 -0.017085695 0.380626918 0.9343786833 -0.8053968539
## 799 -2.754762e-01 -1.205541358 1.678430643 0.3959955119 -0.4953026170
## 800 6.495391e-01 -1.101798441 0.117241772 -1.1474153794 -1.0153722612
## 801 -1.872695e+00 -2.082058351 1.276577310 0.1588103922 0.5106688501
## 802 1.414878e+00 -1.146125629 0.424733753 0.7575950581 -0.1162597108
## 803 8.840940e-01 0.513641553 -0.069382207 -0.0394791000 1.2027280505
## 804 1.578757e+00 -0.973499484 -0.236602055 0.1513808266 1.5016333122
## 805 -2.240106e-01 -0.647053323 0.372217523 1.8299796101 -0.2972499612
## 806 1.151757e+00 -0.403271658 -1.224836086 0.9056698012 2.2015769824
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## 808 -2.066708e-01 -0.278487939 1.492711139 -0.8691261764 -0.3287010945
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## 812 1.155568e+00 -0.120732851 0.695426067 -1.4891525159 -0.8132407431

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## 813	1.350650e+00	0.296502940	-0.955434933	0.9403514531	0.2744420859
## 814	-7.110647e-01	-2.338345419	-1.391709179	-0.8562123470	0.4689530722
## 815	-4.657414e-01	0.057776056	1.290934743	0.7421090815	-1.7454135801
## 816	1.617899e-01	0.056923267	-1.370564309	0.2170627007	-0.1433504064
## 817	1.245108e+00	-0.860023733	0.212090927	0.5522767486	0.5342076690
## 818	1.290234e+00	0.774761400	0.046575593	0.2153721675	-0.3468805395
## 819	7.667001e-01	1.557300911	-0.306199242	0.8317298554	-0.9767428400
## 820	-2.886536e+00	1.187328337	-0.189327929	0.1602934889	-1.3437676921
## 821	1.111107e+00	-0.202720717	-0.504914306	0.6784124971	-0.9139933002
## 822	4.305687e-01	-1.208515504	1.930892267	0.1100197794	-0.4532565435
## 823	6.639901e-01	0.301095763	-0.825332399	0.1239175002	-1.0072111051
## 824	1.261550e+00	0.968235496	-1.072417021	-0.5094810040	1.2037223929
## 825	-1.019031e+00	-0.394307062	0.970797371	1.3001767941	-0.8795123546
## 826	-1.096043e+00	0.295551498	-0.362939588	-0.3196337771	-1.6399096263
## 827	1.380138e+00	-0.494127833	0.694261206	-2.4611556020	0.5101301815
## 828	1.203982e+00	-0.321615417	-0.357864757	-0.7700027317	0.5114326599
## 829	1.548155e+00	-1.590835679	-0.554527702	-0.1729849916	-1.2321608530
## 830	-9.504114e-01	0.782136508	-0.294478456	-0.7161643947	0.2504138131
## 831	-6.261817e-01	0.532344151	1.273128104	-0.8187995258	0.3724483201
## 832	-5.503481e-01	-1.077336132	0.020178297	1.7558171209	-0.1380309563
## 833	7.908610e-02	0.357459303	-0.594860047	0.5897644085	0.4545552822
## 834	9.366309e-01	-0.154044980	1.526516107	-1.9751768342	-0.0343045241
## 835	-2.194258e+00	1.404024445	0.041115613	0.2053559335	-0.6151331647
## 836	-5.693177e-01	0.657793115	1.766368436	0.9673324835	-0.7724500302
## 837	-1.740375e+00	1.464181434	-0.015018880	0.3836320729	-0.2011824177
## 838	1.437902e-01	0.160685123	-0.282858615	1.1194248036	1.2380614021
## 839	4.179536e-02	-0.653062924	1.419265778	-0.3558564459	-0.1484431660
## 840	1.129677e+00	-2.286032446	1.043603101	-1.0647847276	0.7337859166
## 841	3.402148e-01	-0.068671731	1.897555723	0.0431031916	0.6726949963
## 842	2.126677e+00	-0.750713307	0.990606083	0.2587248654	-0.3454750407
## 843	-9.648417e-01	1.687137547	-2.139686239	0.6702485481	-0.4364723124
## 844	-3.873502e-01	0.442095210	0.969444583	-0.0180523569	-0.5974773996
## 845	-1.065628e+00	-0.359991427	1.588337434	-0.1250498863	-0.8379026551
## 846	-3.561136e-02	1.366334921	-1.936571443	2.3071734825	-0.2746647883
## 847	1.448116e-01	-0.449738026	0.533878908	-1.5019432218	-0.2391251388
## 848	1.451254e+00	-0.260296917	-0.730539991	-0.1380606075	-0.6242352079
## 849	1.563857e+00	-0.192104685	1.109846981	0.4282330886	0.4063998600
## 850	-2.482192e+00	-0.464862223	0.266389930	1.2773822739	1.0340667903
## 851	5.854692e-01	-0.575223043	-1.994329798	-0.4752642904	0.6656318896
## 852	9.319270e-01	-0.423136944	-0.394965389	-0.0645897094	-0.4674126121
## 853	-1.863089e+00	1.820658406	-0.986562896	1.0980134836	-0.0641772387
## 854	3.145801e-01	-0.497508020	-0.020395244	-1.1212248600	-0.8771657541
## 855	-7.482829e-01	1.211009959	-0.636461848	0.5898450408	0.4988548949
## 856	-1.039225e+00	1.614171882	1.200742100	-0.2989071091	1.3175820160
## 857	-2.030907e+00	0.599686472	0.475475769	-0.4324684628	-0.6431548946
## 858	2.074526e-01	0.144719054	0.262133959	-0.1096584172	-0.3076377599
## 859	-1.201249e+00	0.788784155	-0.563328517	1.0248023185	-0.4355616656
## 860	-1.880793e+00	2.495204665	-1.045155582	0.1133349872	-0.2083726272
## 861	-1.097597e+00	-1.007730916	1.303842043	0.5335755192	1.0119409946
## 862	-1.204216e-02	1.157527514	0.252770491	-0.0733054424	0.5193734604
## 863	1.643801e+00	-1.838838113	-0.207562678	0.6107395597	0.4767873817
## 864	3.049787e-01	-0.360948594	-0.597688326	-2.4125419895	-0.2722551221
## 865	-1.567114e+00	-0.739741356	-0.883401635	0.9270579200	0.0259674731
## 866	1.192465e+00	-0.249274793	-0.081435113	0.8312073980	-0.0990774508

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## 867 1.267232e+00 -1.061592868 -0.491458503 0.3644077108 0.3037459839
## 868 2.322142e-01 -0.555820489 0.525645132 0.7297216807 0.4361158507
## 869 1.039953e+00 -0.371743851 0.544338294 0.6423892266 -0.2209297356
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## 871 1.695530e+00 0.417774894 -0.843229409 -0.4191103218 -0.7571342484
## 872 -1.859344e+00 1.791484682 0.221660497 0.6914350599 -0.3078133178
## 873 -9.749300e-01 0.889407024 0.132725029 2.3309522186 -0.0245751482
## 874 -7.232419e-01 -0.965433672 0.714315717 -0.2097656056 1.0185076172
## 875 -1.082216e+00 0.879045876 1.283484290 -0.0932180979 0.7552090462
## 876 1.717555e+00 0.413398483 2.340917189 1.1097459243 0.1051309307
## 877 1.488087e+00 0.098003134 0.909311125 0.0092571790 -0.9631103051
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## 879 2.593449e+00 -0.928624068 1.353854544 -0.2308847615 0.9707455976
## 880 2.408565e-01 0.679808308 1.437309249 -0.8063293640 -0.0803413446
## 881 8.667388e-01 -0.862932997 -0.086353110 0.0237642720 0.8985469017
## 882 9.837683e-01 0.146265084 0.774453549 -0.2430454711 1.4205835002
## 883 -3.274716e-01 -1.576110599 0.823622041 -1.1166517628 0.8736637139
## 884 -1.096110e+00 -0.688320136 0.569995729 -0.3240044363 0.0434311063
## 885 1.170250e-01 -1.315942541 0.263569848 -0.5597302480 0.4678381299
## 886 -6.444611e-02 1.286032515 0.430640582 0.6694938243 -0.7385459047
## 887 3.227874e-01 0.689050275 2.394210283 -0.5116643277 -0.3681967625
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## 889 -1.112256e+00 0.235236602 -1.126912986 2.1764656204 0.9350060973
## 890 -2.490142e-02 -0.102761720 -0.619837169 -0.3243221015 0.3792564761
## 891 -8.773286e-01 1.607410801 1.708076415 0.7238951296 1.7165355172
## 892 -8.008372e-01 0.814460522 -2.426395677 -0.4117585085 0.3353101640
## 893 3.860296e-01 -1.792806160 -0.473208080 -0.0376785934 0.8848051465
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## 901 6.659240e-01 -0.903757256 1.558741063 0.5708604431 0.1514493087
## 902 4.314785e-01 0.247904611 0.555980481 0.9892321820 -1.2352321567
## 903 -1.541539e+00 -0.611041948 0.435531121 -1.0945193645 -0.6252847452
## 904 -6.989655e-01 0.414096210 1.100467742 -0.6632974443 -0.8975077275
## 905 -1.972718e-02 -0.925464083 0.802800355 -0.9531679094 -1.3670560591
## 906 -1.509970e+00 0.891367494 0.921261782 -0.9655254569 0.3445866299
## 907 4.224544e-01 1.435678615 -1.564052921 2.4148715328 -0.6857840324
## 908 -1.008600e+00 -1.262203672 -0.371992301 0.1606717958 -1.1031481101
## 909 2.264660e+00 1.011574036 0.004286765 -1.1800818353 -0.5766508318
## 910 1.563890e+00 2.109980819 -1.400209214 -0.6523204712 -0.0388215165
## 911 1.298760e+00 0.132011945 0.181818341 -2.1133216317 -0.5747959240
## 912 7.270014e-03 -1.465161483 -1.067971460 0.7377938412 -1.0268450907
## 913 -2.932398e-01 1.263941367 1.400811087 -1.2575094872 -0.7033215947
## 914 -3.129080e+00 -0.705383182 0.771558517 0.0187594588 -0.1782914155
## 915 1.613922e+00 -1.424819954 -1.323335045 0.0945259040 -0.5479957413
## 916 -1.283295e+00 0.839479128 -1.593747033 0.2455635090 0.9525889618
## 917 -3.964107e-01 -0.165265146 0.387744119 -1.3397751620 -0.1986408801
## 918 8.236731e-01 -0.083068251 -0.475968171 -2.0091800305 0.3174542173
## 919 1.233327e-01 0.720483345 -0.165956116 -0.4087004460 -0.9354508003
## 920 4.196443e-01 0.592656949 -0.149500387 2.8183474582 -0.4699561296

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## 921 2.131054e+00 -0.049045041 -0.873510589 -0.1296477699 1.3296674374
## 922 9.345834e-01 0.132210695 2.086580849 0.2578625899 0.5232383384
## 923 -2.207148e-01 0.119247523 -1.605325584 -0.6140014423 -1.7258640712
## 924 1.271190e+00 -1.221701842 -1.524958151 0.0022312363 0.7277944643
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## 930 7.457352e-01 0.285762486 1.155399450 -1.2392469629 0.4213057434
## 931 -2.039274e+00 -0.408946390 -0.040862530 2.0317855877 1.5646368062
## 932 1.281673e+00 -0.158984760 -0.520252803 1.1816361459 1.0143055635
## 933 -8.571893e-01 0.346794065 1.352742568 0.2589837712 1.3857039776
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## 1108 1.178257e+00 0.332949415 0.136234817 0.0227907320 0.0682888839
## 1109 4.763387e-01 0.276377414 0.710625184 0.0323041346 -0.6956056334
## 1110 7.539621e-01 0.061544122 1.214063342 2.5388428411 -1.3068019615
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## 1135 -1.224074e+00 -0.223627793 -0.258117846 0.8369321479 -0.5275864587
## 1136 -8.872305e-01 0.865684788 1.535321939 -0.1918081530 -0.9368802832

```



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## 1137 6.697752e-01 -0.724659914 0.685403323 -0.0958060885 -0.5872550581
## 1138 2.973264e-01 0.246563410 -0.611201753 2.1129021291 0.0683703304
## 1139 1.224793e+00 -0.017513992 0.441544219 1.9797326521 0.3701906333
## 1140 8.232521e-01 0.520328734 0.224355547 0.1079953216 1.3433103197
## 1141 -1.654556e+00 0.150441764 0.445284926 0.7804252749 0.2253792780
## 1142 -1.071187e+00 -0.704692204 1.402175341 -0.2551279743 -0.0002465928
## 1143 -2.354002e-01 1.249429170 1.022855129 0.5578082955 1.6887897151
## 1144 9.787323e-01 -0.472631991 -0.713767354 1.3728567507 -0.2938831857
## 1145 2.481830e+00 -1.051331267 0.569356791 0.6282375975 0.1842303985
## 1146 7.105991e-01 1.288758849 0.654673447 -0.7486685001 1.3693525304
## 1147 8.906918e-01 1.074738701 1.160201566 -0.0823869087 0.2552826056
## 1148 1.287657e+00 1.823634530 -1.753090736 0.6874473887 0.5861660046
## 1149 6.572095e-01 -1.477935101 0.755215964 0.5544062707 0.5455271570
## 1150 1.052013e-01 0.304922612 1.067993135 1.4057130876 -0.8811265745
## 1151 2.324767e+00 1.045653136 -0.391373589 -0.2601369461 0.0309554085
## 1152 -1.291083e+00 0.489171290 -1.188003580 1.5456709427 0.4244332155
## 1153 6.897431e-01 0.910358817 -0.670248590 -0.6090862092 -2.3840667866
## 1154 7.137778e-01 -0.216387566 -0.467477709 -0.5677248036 0.1352191699
## 1155 3.920462e-01 1.182415876 -0.090707644 0.9134440516 -1.0304919308
## 1156 1.197437e-01 -1.110843548 0.001965328 -1.1142758193 -0.7720525199
## 1157 7.792782e-02 0.724054151 -2.098931007 -0.0698127534 0.6976365171
## 1158 1.420641e+00 -0.279124087 -1.129443153 0.5360361788 2.4208830602
## 1159 3.512501e-02 2.235623587 -0.071176562 0.1792677798 -1.4292868215
## 1160 -8.982822e-01 -0.042794173 -0.209962273 0.9505539054 0.7369968733
## 1161 -1.341166e+00 0.545881630 1.875019567 0.7857732978 0.5408317274
## 1162 3.814285e-01 -0.547404443 -0.751930693 -0.7751765804 0.5161022988
## 1163 9.051653e-01 -1.103607196 0.634897677 0.3412258580 -0.3596657697
## 1164 -1.670113e+00 1.811037360 0.998429505 1.5361723596 0.5784678113
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## 1166 2.532109e-01 -0.295447755 0.967112765 -0.6177383052 1.6378779569
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## 1168 -1.142760e+00 -1.193703505 -0.537044624 0.5660247213 -0.5677136119
## 1169 -1.506816e-01 -0.062659484 -0.025051414 0.3389269478 0.2555231408
## 1170 7.454594e-01 1.991378427 0.612698123 -0.6575073341 -0.0815216513
## 1171 1.226327e+00 0.196629523 1.911113135 0.0492672495 -0.6726822594
## 1172 -2.023363e+00 0.074606984 0.951833263 0.5116612063 -0.2646571924
## 1173 1.006041e+00 -0.253247543 0.835273519 0.2002752566 -0.2599256092
## 1174 -4.670871e-01 0.452151953 -1.499421610 -0.1440346878 1.4194311240
## 1175 2.006982e-01 -0.427816406 -0.515461286 -0.4650694223 -0.9970773438
## 1176 1.261438e+00 -0.451313931 1.131200265 -0.2390715001 -0.8797883607
## 1177 -6.338552e-01 -0.431989415 0.489097865 0.5002434193 -0.4006162038
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## 1185 7.494169e-02 0.586534715 -1.299961836 1.3949512934 0.0014750848
## 1186 -1.195252e+00 0.094643887 1.264477196 0.3009985432 -1.6437868533
## 1187 1.761904e+00 -0.386488603 3.215890213 0.8750603092 0.1592201098
## 1188 1.706504e+00 -0.991234009 0.173224215 -0.0576819789 0.3923296869
## 1189 -1.822386e+00 -0.918042359 1.536003593 0.0297261418 -0.1450352583
## 1190 2.294531e-01 -0.666726930 1.091813290 -0.5299848382 -0.4901948860

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## 1191 2.420726e-01 0.817975494 0.246185580 0.1939909394 -0.4905484497
## 1192 -1.139390e+00 1.892284266 0.032421863 -0.1756203133 0.4727614858
## 1193 1.125253e+00 2.186487387 -0.129984221 0.0574990888 0.3206867967
## 1194 1.200147e+00 0.738738524 0.231113257 -0.1063078275 1.3542928172
## 1195 1.125264e-02 0.822566296 -0.302625216 -0.5755890180 0.5270215628
## 1196 -3.375676e-01 1.246502958 1.387783361 -0.5259155839 -1.1693616873
## 1197 1.539914e+00 0.698781678 -0.049865930 0.3419643423 -2.3514809862
## 1198 4.208518e-01 1.326711326 0.276967126 -0.7308536352 -1.8387271274
## 1199 1.887660e+00 0.728503217 -0.283581763 0.2070847377 1.1639107382
## 1200 -8.276568e-01 0.539707545 0.497968575 1.5538647680 -0.6370045765
## 1201 -6.407446e-01 1.235103124 1.920868520 -1.5185377619 1.8306320595
## 1202 -5.546563e-01 0.943892317 0.757261271 0.4388573073 -2.1880117227
## 1203 8.967409e-02 1.347471112 -1.483934106 1.5017796222 0.1502702438
## 1204 4.710480e-01 0.064374200 1.555355936 1.8503054744 -1.0182366701
## 1205 9.989973e-01 0.008411388 -0.109112853 0.1799898106 0.6306457363
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## 1207 1.650054e+00 -0.582755628 0.207855217 1.6341690060 0.0667601171
## 1208 7.362874e-01 -0.977176701 -0.752178903 1.8641121832 -1.2441807930
## 1209 -3.555002e-01 -0.982533691 0.568073890 0.1533310154 -0.5246605954
## 1210 3.910507e-01 -1.088201584 0.422839261 -0.9187438934 -0.7864983073
## 1211 1.025956e+00 -0.365588397 -1.273712727 0.2739705583 -0.5367919518
## 1212 -7.688699e-01 -1.267420894 2.039758117 1.2964419476 0.7678124707
## 1213 -2.486773e-01 1.553873818 -0.160128727 0.5623268303 1.2584583400
## 1214 6.592564e-01 1.150767215 0.050233092 -1.7039135345 -1.3129945850
## 1215 2.958802e-01 2.333600937 0.164578726 -1.1035013472 -0.0676039780
## 1216 9.630523e-01 -1.201307535 0.526404512 -0.8741555965 0.0827917953
## 1217 4.865122e-03 0.686828506 2.585821025 0.0082777043 -0.6938968534
## 1218 1.847506e+00 0.409305485 0.513521574 -0.7639180058 -1.1317259809
## 1219 6.279626e-01 0.742568173 1.608512865 0.1320180948 -0.6719636986
## 1220 1.538779e+00 1.382466456 0.685863066 0.7864269368 1.5543771774
## 1221 1.120522e-01 1.276497553 1.407773416 -0.4921137880 1.5388831639
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## 1223 -1.558113e-01 -0.306268810 -0.198876642 -0.6588810737 -1.0734003414
## 1224 -8.689917e-01 -0.372440373 -0.424222800 1.8292916890 -0.0818603109
## 1225 9.153699e-01 -1.338945354 1.239161588 -0.0339256764 0.1602446522
## 1226 6.681013e-01 0.549629131 0.038320761 2.1767229316 -1.1974221772
## 1227 -6.759768e-01 0.449983940 0.368697673 0.5648859792 0.1692873321
## 1228 1.223412e+00 -0.348334363 -0.112820693 -1.4171044195 -0.1166410442
## 1229 3.692006e-01 -0.948846554 -0.566579642 0.4557586858 0.9738934121
## 1230 -5.604406e-01 0.456942791 -0.513263766 -1.5766006077 -0.3525212712
## 1231 3.736305e-01 -1.081309118 -0.404775755 -0.3283688993 -2.3427664078
## 1232 1.311292e+00 -0.305393391 0.929118350 0.0866330424 0.5466070889
## 1233 7.317010e-01 0.921068090 1.662151847 1.4050129882 -0.5941979840
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## 1235 9.462075e-01 -1.405205197 0.497012593 1.0261201134 0.7405587475
## 1236 -1.377130e+00 0.531499173 1.143804901 0.1639299679 -0.6540830813
## 1237 -4.947542e-01 -1.210136856 0.930732183 0.4498658360 0.0945531683
## 1238 -1.923132e+00 -1.685675110 0.973357837 -0.3974673258 -0.2641718445
## 1239 -8.982323e-01 1.271200609 -0.216486406 -0.1772067567 -0.1241362604
## 1240 1.097567e+00 0.149469389 0.263689592 1.8631319019 -0.2850244019
## 1241 2.145413e+00 -0.432336001 0.460339501 -0.2186776363 0.3221013506
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## 1245 1.992121e+00 0.233901079 -0.273162885 1.4359806567 0.8501163847
## 1246 1.270475e-01 -1.516243779 0.473140067 0.7033483293 -0.1453152079
## 1247 -1.624583e-01 0.392084872 0.473870844 -0.1973652087 1.8941553026
## 1248 -3.290027e-01 -0.705817238 0.315437704 0.7207361473 -1.3252112887
## 1249 -8.927496e-01 0.972760074 0.387394950 1.3934464494 0.5404313794
## 1250 -7.400493e-01 -0.659412900 -0.213659858 -0.1275451263 1.0661470786
## 1251 2.637460e+00 0.002974231 -0.772743338 -0.7829016351 -0.1409038143
## 1252 -6.479402e-01 -0.443552993 1.001653108 -0.1403151179 -1.8350203589
## 1253 7.032315e-01 1.023922021 2.277412654 -1.4042510903 -0.6849232807
## 1254 1.752551e+00 -0.081312313 0.297079478 1.5305473215 1.7142679679
## 1255 1.591148e+00 0.967361512 1.305296276 0.3348445041 0.2923268397
## 1256 -4.688692e-01 0.350562099 -0.672616978 -1.0241392827 -0.3757014835
## 1257 -6.978044e-01 0.290092242 -0.432264448 0.8358497202 0.9500731642
## 1258 -1.049133e+00 0.128093670 0.609491443 0.5373406758 -1.2755706015
## 1259 6.215846e-01 -0.428891454 0.529807893 -0.2437329942 0.2281512827
## 1260 9.767154e-01 0.447892405 0.421837252 -0.6589889260 -0.8688057218
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## 1262 -8.465514e-02 0.056240634 -0.069824760 0.8521768049 -0.9463066506
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## 1264 -9.938803e-01 -0.659953754 0.514604682 1.0466250238 0.3461371366
## 1265 -2.834140e-01 -0.932953715 0.784848394 -0.6373823270 -1.2498309671
## 1266 1.880311e+00 -1.755358188 0.900133139 1.3595139737 0.1295821086
## 1267 1.189204e+00 0.794779167 0.042566387 -1.3400941469 -0.5485300664
## 1268 1.919135e+00 0.086527838 0.090113790 0.8768185455 -0.2394373382
## 1269 2.133485e-01 -0.649795656 -1.007090245 0.7436105293 1.4659740691
## 1270 -8.253845e-01 0.241422963 0.405335445 -0.8295820958 -0.4427196315
## 1271 -6.401527e-01 1.662815572 0.645364860 -0.1951903587 0.7668299314
## 1272 -9.125729e-01 -1.101695230 1.104096289 -0.8627908156 -1.1822492487
## 1273 -3.871567e-01 0.878592111 0.887227828 1.0248903805 0.4737405915
## 1274 -7.941130e-01 0.144816730 -1.560948290 0.6001567562 -0.5726566126
## 1275 -6.970260e-01 1.137547333 -0.346991678 0.7154670018 0.2352545144
## 1276 -2.337093e-01 -0.119022670 -0.566856385 0.7081293706 -0.2098677601
## 1277 -9.646884e-01 -0.386311500 1.312803644 -0.5992619252 -0.9457133789
## 1278 1.429167e-01 -0.408104130 1.520370829 -0.3236259184 -0.7315609820
## 1279 2.237420e+00 0.902743820 -0.457867582 -0.4839635483 -0.9402373552
## 1280 2.942779e-01 -0.839172784 0.253710468 -0.7613667110 -0.5653199698
## 1281 -5.970212e-01 -0.109306382 -0.014691981 1.2434201930 -1.5033767106
## 1282 1.712955e+00 0.424589048 -0.091739011 -0.2565570426 -1.3780263371
## 1283 1.996460e+00 0.590550837 1.912504433 -1.0378663995 -0.0630976516
## 1284 -1.850889e-01 -0.568024969 0.230353654 -0.3007433819 -0.3523497756
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## 1288 1.038569e-01 -0.241876216 0.409859103 0.5851681537 -1.4295139096
## 1289 7.009336e-02 -0.752826605 -1.743406406 1.8586157591 -0.6818261961
## 1290 6.042903e-01 -1.784787698 -1.194000919 0.2390443385 1.0978571445
## 1291 9.738719e-01 -0.716282419 0.568764753 -0.2480051312 0.0392731927
## 1292 -4.683730e-01 0.222002266 2.017625948 0.7583188560 -0.2325586417
## 1293 1.142715e+00 -0.165961945 -1.738004483 1.2431077561 -0.8669128208
## 1294 1.090506e+00 0.094310162 -0.741453815 0.7783465462 0.3308690424
## 1295 -1.058240e+00 1.913259095 0.509864575 -0.1580671418 -1.3049971258
## 1296 1.104190e+00 0.764475745 -1.903179053 -1.3606161122 -0.6632298338
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## 1299 1.850438e+00 -0.518130387 -0.274478179 -0.4324263885 -0.1419563140
## 1300 -1.626500e-01 0.405838605 0.141551953 -0.2401260617 1.0733337678
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## 1307 2.187584e-01 -1.139418067 -0.929938900 0.4312255776 0.9139375268
## 1308 4.233034e-01 0.288118244 0.179549656 -0.2765588903 0.4836873988
## 1309 -2.284957e+00 0.535697848 1.406234822 -0.0090155114 1.2340140274
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## 1311 8.213347e-02 0.549647239 -0.626999993 1.0002467271 -1.4443270311
## 1312 -4.834841e-01 0.413993724 0.012140896 3.4541194255 1.3109286491
## 1313 1.970686e+00 1.179450181 -0.559683663 -0.6276854489 -0.5787519514
## 1314 -4.541538e-01 -2.055250270 -0.316768907 -1.6374597973 0.7629355364
## 1315 2.065561e+00 0.117682149 -0.168685697 -0.1579274116 2.0188518666
## 1316 2.012400e+00 0.572665944 0.410941457 -0.9793930894 0.5126387091
## 1317 1.073820e-02 -0.263542431 -0.848815574 0.8407074114 -0.0134429853
## 1318 4.609609e-01 2.400425846 -0.263998870 0.8748869874 0.4803486506
## 1319 1.321112e+00 -0.293711648 1.129495367 0.9003280446 -1.0913423458
## 1320 2.687796e+00 0.369243757 0.454317857 1.1408358025 -0.5516706898
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## 1322 4.952067e-01 0.501231052 0.630812885 -0.7460888517 1.4111403765
## 1323 -1.014100e-01 1.155326777 -0.178191286 -0.3805105853 -1.1231789641
## 1324 7.265205e-01 -0.401388463 0.787033638 -0.4616596005 0.3076622132
## 1325 7.710382e-01 -0.195294674 -1.726831575 0.6872110865 -1.6795664687
## 1326 1.272678e+00 0.393599330 0.193547247 0.1742079539 -0.8397260870
## 1327 3.314351e-01 0.110711551 0.278154013 -0.4479067515 -0.2754944424
## 1328 -6.208186e-01 -1.152778827 -0.237853738 0.9517962824 0.3047955539
## 1329 -3.943302e-01 -0.663577317 -0.972013940 1.0171724158 0.0621102841
## 1330 6.873313e-01 -0.560731903 -0.621932940 -0.6849635868 -1.6867791359
## 1331 -3.470813e-01 -0.207992322 -1.142447772 0.2457823316 0.0764720789
## 1332 6.682855e-01 -0.455619897 -0.210488466 0.2084631973 -1.3723481106
## 1333 5.756831e-01 0.906315581 0.353116145 0.8925458506 -1.2389671994
## 1334 2.778532e-01 0.369748399 0.131991652 -0.2137041401 0.5716666977
## 1335 1.574928e+00 1.242439872 -1.473301613 0.9065664433 0.7137721842
## 1336 1.004042e+00 -0.277420035 2.877632283 1.1492222516 0.1986540527
## 1337 3.722258e-01 -1.576816617 2.184917954 0.2853161974 -0.0910276134
## 1338 -3.468139e-02 -0.611807570 -0.016199949 -0.0473588315 0.3296418027
## 1339 -5.633224e-01 0.179484967 0.343960174 0.9789453175 -1.3809436408
## 1340 7.092556e-01 1.638888808 0.299764735 -1.6996021769 -2.1457029050
## 1341 -1.174672e+00 0.270315879 1.741232210 1.5906819326 0.8285894952
## 1342 4.597720e-02 1.321055224 -0.018074163 -0.5035186518 -1.5374195315
## 1343 6.098149e-01 0.791261228 -0.378669588 -0.2883724177 -1.1141400657
## 1344 1.346188e+00 1.036072641 0.852102989 -0.8097941381 -0.6781058261
## 1345 2.023001e+00 0.031626209 1.419371089 -0.7431134952 -0.4836553007
## 1346 1.603535e+00 0.973336405 -0.632583120 -0.1600838231 -0.2816184921
## 1347 1.856673e-02 1.843273075 -2.228546789 0.5540715370 -0.4664058989
## 1348 -7.724984e-01 -0.438875108 -0.442952379 0.0328100744 -1.1421982480
## 1349 -1.003351e+00 0.218609308 -0.044714134 -0.6255687456 -0.8538480687
## 1350 -1.019382e+00 1.100189129 -0.936350876 -1.2032730950 0.2717202385
## 1351 -1.122820e+00 2.053852553 -1.609447357 0.1697929034 -0.9343216664
## 1352 6.782248e-01 0.361188458 1.010708027 0.9808643035 0.2823711875

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## 1353 7.014554e-01 -0.803643635 -0.564297658 -1.4715642196 -0.1714254077
## 1354 1.740813e+00 -1.725675794 1.212054748 2.0387447182 0.0258989881
## 1355 -2.808091e-01 -0.339325159 -1.110401918 1.1452392228 -1.8039875952
## 1356 -1.062200e-01 0.632731305 0.703852363 0.1485746963 -1.0341740987
## 1357 1.277642e+00 1.141498531 -0.614325817 -0.6965515997 0.5467696259
## 1358 7.721342e-01 -0.796493554 0.827026532 0.3222062314 -0.9067131603
## 1359 7.529505e-01 1.136402362 -0.821009848 -0.0311350735 -0.7063343454
## 1360 -5.394536e-01 1.302476496 -0.015841415 0.0493340811 -0.6998487403
## 1361 -2.132928e-01 1.205532319 0.800154697 -0.5194732180 0.8301261761
## 1362 4.103559e-01 0.279259631 2.094231576 1.3121008717 -0.4633663811
## 1363 4.446697e-01 -0.690683049 1.075216274 1.4513723301 0.2997293279
## 1364 -5.983799e-03 0.686221477 1.815758453 -0.2136472747 -0.3725077291
## 1365 6.252642e-01 0.168676997 0.493932423 -0.6364873396 -0.3618548418
## 1366 2.249550e+00 -1.433097443 0.503872744 1.9447481131 -1.1358337743
## 1367 2.832183e-01 -1.394085337 0.462785529 2.1976797626 2.2652403000
## 1368 -5.388122e-01 -0.826087805 2.070702446 1.3326410545 0.0971149135
## 1369 1.552674e+00 0.855425150 0.280954761 1.9082824808 -0.6804946430
## 1370 1.422181e+00 1.533920113 -0.399437602 0.1996066082 -1.1432352784
## 1371 2.171417e+00 -2.695822520 1.438942699 2.6000265489 0.6774011329
## 1372 1.203362e+00 0.892515080 -0.054521533 1.0314430959 0.8586328400
## 1373 2.995800e-01 -1.302160295 -0.911570672 -0.3597528393 -1.4591582384
## 1374 1.067988e+00 0.647889099 0.144123063 1.0757588280 1.1403429281
## 1375 3.015575e-01 2.033454291 0.172188817 0.3824200510 -0.9646275531
## 1376 -2.107287e-01 1.079583595 0.292085122 -0.9041958605 0.6585597798
## 1377 1.076798e+00 -0.260849874 0.094641246 -1.0817495529 -1.2684456458
## 1378 -3.826123e-01 -0.930733536 -0.532750519 0.2001837149 -1.8169854163
## 1379 4.186756e-02 -0.629975696 0.909223922 -0.4515636116 -0.4248469816
## 1380 -1.002825e+00 0.960553476 -0.863597461 1.4922595575 0.6896266823
## 1381 5.170414e-01 0.384671864 -0.018088891 0.8349827202 -1.1089322338
## 1382 9.793794e-01 -0.707875213 1.204492143 2.5894066246 -0.0236467186
## 1383 2.082668e+00 -2.499394481 0.316403740 -0.0336694541 0.1596179222
## 1384 9.145746e-01 -0.413805601 0.260933615 1.1925686302 0.1382014436
## 1385 -1.935140e+00 0.397131265 2.165836548 0.1974050574 -0.8676716586
## 1386 9.374359e-01 1.217701669 1.234509070 1.1431970006 -0.9886762779
## 1387 5.522207e-01 -0.067628026 -1.148804540 -0.2443361278 -0.6370548038
## 1388 -2.014076e+00 -0.040115130 0.015411637 -1.0883086936 -0.8532396685
## 1389 3.776302e-01 0.132510905 -0.165706522 3.1687145753 1.8198179303
## 1390 -2.092150e-01 -1.372414715 0.917620562 0.5783910918 0.8109620594
## 1391 -1.168855e+00 0.282881610 2.347945932 2.7345760181 -0.4419423447
## 1392 -1.858327e+00 0.008033158 1.142545754 0.5003234122 -0.3972835504
## 1393 1.048960e+00 1.512921719 0.541855063 -0.2422971668 0.9977187089
## 1394 -3.062111e-01 0.804258253 2.262316508 0.8022000562 -0.7083952767
## 1395 5.634833e-01 0.477944407 2.626845787 0.2276270258 -0.2296409408
## 1396 6.641692e-01 -0.023521892 -0.600247147 1.6288714442 -0.5735785046
## 1397 -5.051377e-01 -0.143745939 1.111523458 1.0611274776 -0.8844303643
## 1398 -1.200829e+00 1.095870716 -2.191996736 -0.0976363695 0.5853067046
## 1399 1.179569e+00 0.364058301 0.428515414 0.1057007240 -0.3543919846
## 1400 -1.865998e-01 0.638766755 0.875288271 -0.6598996182 -0.6157306166
## 1401 1.080868e+00 -0.166988416 2.167290056 0.8415523149 -0.2080681701
## 1402 1.816258e+00 2.702493918 0.598243832 -1.1095726996 -2.1720995034
## 1403 -9.920013e-01 0.505632036 -0.323018474 0.3440120756 0.4221055742
## 1404 6.210489e-01 0.939282551 0.046902137 -0.3539233402 -1.5154349145
## 1405 2.559859e+00 -0.451945455 -0.165978972 1.1558537044 -0.2298601620
## 1406 2.470150e+00 0.039801894 -0.583367379 0.8416035792 0.9267625323

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## 1407 2.054164e+00 0.866498901 -1.030967279 -0.5994990964 0.3945695432
## 1408 -1.400681e+00 0.596720965 0.860004047 -0.3270744334 -0.8336722842
## 1409 8.716655e-01 -0.232114727 0.027406876 0.7956195842 -1.6106830806
## 1410 1.765887e+00 1.221431153 0.432477227 1.2259390075 0.1235306293
## 1411 -3.951643e-01 -0.319875141 -0.399891251 -0.9166750375 0.3092327972
## 1412 6.594516e-01 1.384842086 -0.949019727 -1.5478694388 0.8105430615
## 1413 -5.776586e-01 -0.210412578 0.687522091 0.5830729352 -0.7989774284
## 1414 1.010890e-01 -0.045334908 1.743307003 -0.0441460231 -1.1233557494
## 1415 1.602179e-02 0.273521568 0.193642404 1.7855067067 -1.5287867449
## 1416 -1.902877e-01 -0.862656101 -0.342978314 1.5940818381 -0.0365182609
## 1417 2.556813e-01 0.862783566 2.010571620 -0.3527226023 -0.2914610752
## 1418 -4.525968e-01 -0.427674964 0.869233591 -0.9742406016 -1.0075130299
## 1419 8.633864e-01 -1.166366714 -0.128941571 -0.4294499004 0.4748758281
## 1420 1.460627e+00 0.602975849 1.327275655 -0.1894816215 0.3148558441
## 1421 5.578844e-01 1.658474036 1.259532598 -0.8673344188 -0.7738652964
## 1422 -9.898192e-01 1.377799756 -0.633825533 1.7971928721 -0.4294051169
## 1423 1.566603e+00 0.732148048 1.489004873 1.2167441081 0.2867621779
## 1424 1.889060e+00 0.220999967 0.162725137 -1.6887089168 -1.2339417730
## 1425 -2.142105e-01 0.575344836 0.887830124 1.5929974287 -0.4542587893
## 1426 -1.029245e+00 1.893174132 -1.315384510 0.7482504095 -0.6272754752
## 1427 1.172289e+00 1.212663513 -0.468619723 0.6664469022 0.8592388562
## 1428 -8.346911e-01 -0.492398970 0.998352312 -0.4758052643 0.5397246266
## 1429 2.742555e-01 -0.329103903 1.094780896 -0.9564682687 -0.2622289688
## 1430 -5.677444e-01 0.365594517 1.035100642 -0.0660929788 -1.4110878073
## 1431 -1.576033e+00 -0.119580417 0.833912743 -0.0496911502 0.2818939441
## 1432 4.904069e-01 1.464871957 0.214897807 -0.2959122382 0.8471439611
## 1433 6.433173e-01 2.631471185 1.223925205 -1.5357433153 0.1212795150
## 1434 -1.474259e+00 1.068618232 -0.191247321 0.7448804636 -0.8771325914
## 1435 7.944073e-01 0.472357050 -0.222759909 2.3624544288 0.3503321181
## 1436 5.221403e-01 0.036964455 1.835145111 0.0475820856 0.0699803119
## 1437 9.396393e-01 -0.092700192 -1.470837290 -0.4555908285 -1.5883981371
## 1438 1.033735e+00 0.307096056 -0.307379615 0.6859860308 -1.7682617245
## 1439 7.237196e-01 0.876863798 0.891035215 0.6663071878 -0.4036854094
## 1440 -8.903171e-01 -0.047705229 -0.306578223 -0.4723153707 -0.1150528822
## 1441 4.801937e-01 0.329865256 -0.245449673 -0.4292491643 0.5265158527
## 1442 1.021723e+00 1.319070621 0.810456314 0.5377281902 0.6030198430
## 1443 6.699082e-02 -0.589801932 1.216008062 -0.0985052758 0.8630844296
## 1444 -1.527630e+00 0.803432213 0.968915605 -0.8117988072 -1.1295603503
## 1445 -1.094932e-02 -1.161977900 1.545453420 1.2987956603 0.1498450412
## 1446 -4.148855e-01 0.096099736 -0.530743847 0.4044693060 0.0724692753
## 1447 1.557097e+00 0.707038205 -0.454300911 0.4900267791 -0.4282889486
## 1448 6.108036e-01 -0.241191054 1.146791761 1.6589645489 0.6009789071
## 1449 -4.405652e-01 -0.696933655 0.174245501 -0.2483873087 -0.3860721519
## 1450 1.530696e+00 -0.972016556 0.745906031 0.0860459106 -0.9659376464
## 1451 9.799031e-01 2.397876414 0.439841407 1.0938277196 0.3497472583
## 1452 -3.258786e-01 0.642936582 -0.428552249 -1.2279304138 -0.4372051956
## 1453 6.746955e-01 -1.590400548 -0.230801852 -0.0995123993 0.2867756304
## 1454 -1.306491e+00 1.719976745 0.697962174 1.1268643518 0.1343868257
## 1455 1.848407e+00 1.836656097 -0.240406554 0.3416511022 0.4318709507
## 1456 5.219430e-01 -0.715505001 1.795723841 0.0092776598 0.4401396244
## 1457 2.611722e+00 0.451392685 -0.889773455 0.3893122355 -0.7537325548
## 1458 1.156205e-01 1.094639456 0.932416283 0.1839438187 0.5976712621
## 1459 -4.168822e-01 -0.299157674 -0.113875382 -0.5654543287 2.0051855187
## 1460 3.535907e-01 1.022374302 1.508715195 1.1770204741 -1.3646629241

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## 1461	2.202648e-01	1.828966807	0.805323180	1.8818540229	0.3344547324
## 1462	8.354724e-01	-0.220589515	0.843526422	0.4164907194	-1.1628291478
## 1463	-1.885841e+00	1.461425453	0.238817517	1.1624782801	-1.2407829783
## 1464	9.945601e-01	-1.475015689	0.909400285	0.2715611897	-0.6758914835
## 1465	1.123745e+00	0.727886470	0.723257434	0.8874135564	0.4225612349
## 1466	1.385103e+00	0.140032071	0.506169111	1.8369725725	-1.2171479832
## 1467	-5.629882e-01	0.147027789	0.403395915	0.2876030928	-1.3575858696
## 1468	9.876062e-01	0.578074817	1.419005832	-2.8007744706	-1.4315432126
## 1469	9.765082e-01	-0.704838397	0.779043317	1.1337353426	-0.2257637537
## 1470	2.961380e-01	0.199688234	1.165123582	-0.3030175732	-1.5506892038
##	PC15	PC16	PC17	PC18	PC19
## 1	2.042215697	0.600087802	0.584325148	0.5927460141	-7.747096e-01
## 2	0.731069553	-0.979365839	0.835822760	-0.7514248235	-7.285595e-01
## 3	0.828847689	1.442955498	-0.994621330	-0.1509060070	-1.224757e+00
## 4	0.615975960	0.685926800	-0.275584107	1.1081247691	-6.620085e-01
## 5	-0.107263166	-1.154690576	2.219051216	0.3101830766	8.373039e-02
## 6	1.577883561	0.137057629	-0.211570837	-0.5343861208	-7.640829e-01
## 7	0.407678007	-0.320873460	0.068488457	0.9049776870	4.933037e-03
## 8	0.167894301	0.890965527	1.236300272	-1.4090773130	3.543886e-01
## 9	-0.562061245	0.507914841	1.002080619	-2.0175386171	3.402558e-01
## 10	-0.093090514	0.487841924	1.398011682	-1.0071354658	-1.834452e+00
## 11	-1.647076091	-0.174515841	0.905250313	0.8912894862	-7.415344e-01
## 12	-1.323198496	0.394281749	-0.438637167	-1.8487815497	4.582415e-01
## 13	-1.143514888	-1.032727037	2.540332147	-1.3756418885	9.732472e-01
## 14	-0.638733965	1.774903520	0.743457886	-0.6404093416	-6.089831e-01
## 15	-1.948985364	0.190649461	0.333685896	-0.8470195244	-7.197634e-01
## 16	-0.309952758	0.754008428	2.407236042	-0.3152296236	1.471811e+00
## 17	-1.323514953	-1.922474284	-0.643357899	0.9609208622	-2.569477e-01
## 18	0.534747573	0.835746685	-0.438694749	0.4759286698	2.244536e-01
## 19	0.065897852	1.452302715	0.103354562	0.4100659796	-1.253617e+00
## 20	-0.990788735	-0.202433197	-0.753146839	-0.5171345340	-2.693259e-01
## 21	-0.485270849	-0.442815520	-0.228510961	0.6790741901	7.627917e-01
## 22	1.161499433	0.091197210	0.145089213	-0.8953643059	-1.377798e+00
## 23	-1.116311187	-0.085061245	1.126843820	0.4959615936	5.385077e-02
## 24	-1.304660368	-0.112563360	-0.847578298	-0.8696388441	-1.500101e+00
## 25	0.881394356	-0.031246738	1.646604565	0.2246944419	-2.879046e-01
## 26	-0.137947945	-0.421944828	0.650056044	-0.5022464869	3.033071e-02
## 27	0.803949406	0.900410971	-1.096488616	-0.7797113424	8.521229e-01
## 28	-0.425790380	-0.742609368	1.545809332	-0.2756492598	-1.088989e+00
## 29	-2.191917518	0.341862979	0.201731085	-0.8116787586	-2.983732e-01
## 30	0.721639785	-0.554525690	0.926789252	-0.3107040403	-7.246355e-02
## 31	-0.388118874	0.559370514	-0.198291208	-0.5115975942	-1.093843e+00
## 32	-2.199798138	0.564011225	-0.473145830	1.2237910057	-1.391550e+00
## 33	-0.338860726	0.278498179	0.208778531	-0.9768314642	-1.818797e+00
## 34	-1.880516611	0.076546110	-0.383519980	0.1628957869	-1.073549e+00
## 35	-0.546768167	0.201068443	0.083952414	1.0036426504	-4.664934e-01
## 36	0.425459779	-1.017327379	0.666032297	0.0887420962	-7.493115e-01
## 37	-0.055668130	1.022767494	-0.728228138	0.1453686941	-5.598461e-01
## 38	0.611638675	1.570051302	-0.213238974	-0.6127064002	-1.025411e+00
## 39	0.034839290	1.321402234	-0.142477281	-0.3695645839	-6.082574e-01
## 40	1.039512964	-0.093410214	1.105400655	0.4611493225	2.094355e+00
## 41	-0.955598381	0.227259845	0.561966366	-0.2783196793	-1.072575e+00
## 42	-0.363702033	-1.396802598	0.281512178	-0.0182117457	-1.509427e-01
## 43	-0.379578022	0.788395983	1.238757531	-1.6566516067	-3.444910e-01

## 44	0.875854856	0.393913941	0.957504477	-1.3380599208	1.247843e+00
## 45	0.206758098	0.517898904	0.305078796	-0.1367670268	2.827828e-01
## 46	-0.271329182	1.040113205	2.443418438	0.5052301438	1.241427e-01
## 47	0.185509883	0.865169424	0.792099987	-0.1705903596	-2.038281e-01
## 48	0.012316648	0.708160208	1.997326999	-1.0581423686	4.065107e-01
## 49	-0.092002107	0.796464390	-1.086754419	1.9716414787	-2.001467e+00
## 50	-0.380483673	-0.225243305	0.478441475	-0.7227414763	1.340553e+00
## 51	0.438134669	0.801253931	-0.373826261	0.5797249011	-1.294977e+00
## 52	-0.766163166	-0.456273504	0.106294185	1.2265939663	-1.221897e+00
## 53	0.698418920	-0.249240864	-0.304311736	0.0472555786	-1.517211e-01
## 54	1.234968645	0.811986074	-0.427678398	0.0118556930	7.243907e-01
## 55	-0.425117934	0.511529654	0.834631502	-1.1434562353	-4.739790e-01
## 56	0.645241860	1.990996378	-0.370330551	1.0828177588	1.489127e-01
## 57	0.046853052	-1.181114114	0.568763637	-0.8503673614	-3.836952e-01
## 58	-1.593969109	0.008691022	1.431046269	-0.1935646449	5.588143e-01
## 59	-0.756620668	-1.363977399	0.076111660	-1.1863004860	-1.117098e+00
## 60	-0.494737295	1.604109132	0.635355134	-0.0212577809	-1.279059e-01
## 61	-1.844586895	-0.303259782	0.530167855	1.6216423091	-4.699134e-01
## 62	-1.651214870	1.067004304	0.491901539	-2.0895209489	9.646338e-02
## 63	-0.212170756	-0.596292336	0.494882040	-0.3316014570	1.947852e-01
## 64	0.584833621	0.346346329	0.336456009	-2.0086177812	2.673879e-01
## 65	-0.378342086	1.148637937	1.639035661	0.0148127135	-4.062785e-01
## 66	-1.381119341	0.063533838	0.743993320	0.1929531212	5.622255e-01
## 67	1.334382248	1.174809317	0.386873695	-0.0402259435	-1.167845e+00
## 68	0.628756148	-0.124213886	1.551688882	0.2347242050	3.113133e-01
## 69	1.190165446	-1.093256418	0.768375499	-0.4906499617	-2.819607e-01
## 70	0.313242071	0.418684653	1.001627128	-0.2108686517	-1.929437e+00
## 71	2.028075997	-0.386093762	1.014225417	-0.1767353956	7.754119e-02
## 72	0.594304692	-0.034251187	-0.416218756	-0.6324165855	-3.113402e-01
## 73	0.424338743	0.250037246	0.386332813	0.6827152109	-1.881746e+00
## 74	-0.027156170	-0.050996363	0.671854189	-0.0512802964	-8.491994e-02
## 75	-1.417875720	0.127565386	1.414119260	0.7666381933	-2.469868e-02
## 76	-0.659956807	0.557888956	0.536257070	-0.3992764884	-8.753197e-01
## 77	0.897913496	-0.516284655	2.114729905	0.0541924702	-1.205125e+00
## 78	-1.262309784	0.080882888	0.877720039	0.5492713675	-2.380831e-01
## 79	-1.663101968	0.658718908	2.674041367	1.7652213323	-3.599394e-01
## 80	-0.125664202	0.042293358	0.166634008	0.3621367009	-3.556354e-01
## 81	0.845453318	0.011635530	-0.183918507	-0.7700524587	-5.673498e-01
## 82	0.266312224	0.186048284	2.003896536	1.1806937920	-1.340279e+00
## 83	-1.212829499	-0.784961344	-0.012443624	0.1429447616	-5.960141e-01
## 84	0.308450227	1.273063851	-0.544209915	-0.1304310741	-1.410764e+00
## 85	0.866463773	0.744538777	1.083195040	0.8232117966	-6.919373e-01
## 86	1.186265071	0.397912535	0.463572884	-1.1118481532	-1.718188e+00
## 87	0.373681749	-1.045559161	1.625634691	-0.5408034136	1.179814e-01
## 88	-0.747250657	0.247814838	-0.375791452	-0.4184611429	-2.683387e+00
## 89	0.313129409	1.186606007	0.097124276	-0.3830560848	-2.656726e+00
## 90	-0.520797110	0.056446233	0.185262486	-0.8204860615	-1.218419e+00
## 91	1.068401670	-1.185689930	-0.444442945	-0.7302051315	-1.422449e+00
## 92	-1.502681392	-1.164629562	-0.965624017	-1.5223268048	-1.093424e+00
## 93	0.696294961	-0.331122764	0.068822063	0.0751870584	-7.284035e-01
## 94	0.040982164	-1.775024041	-0.834257588	-0.0659779663	2.106696e-02
## 95	1.057600701	1.586308968	2.211103166	0.9443209325	-1.963739e+00
## 96	-0.150319963	-1.345594699	1.502322490	1.3846919686	-1.492732e+00
## 97	0.219409853	-0.189120443	2.253538725	0.9309050166	7.809114e-01



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## 98 -0.374349444 0.502271316 1.243337671 0.9619104997 6.743328e-01
## 99 -0.222584017 -1.148200013 1.717839153 -0.4480439524 -1.140517e+00
## 100 -0.547348913 0.818668398 2.055971133 0.7347819364 -3.690143e-01
## 101 -0.188831940 -0.953598152 0.164955929 1.0918155581 -1.199570e+00
## 102 1.546259923 -0.517225707 0.587341870 -1.0334382494 3.005983e-01
## 103 -0.116302000 0.997911999 -1.367834182 0.6948031477 -7.878458e-01
## 104 -1.476383390 0.300747399 1.519021110 0.5628201844 -2.379058e-01
## 105 1.748650128 2.174024913 -0.351171678 0.0216975848 -7.674736e-01
## 106 1.007597877 0.327811945 0.142861522 0.4333521898 4.026312e-01
## 107 1.314172338 0.966925934 0.179419696 1.1536648577 1.813633e+00
## 108 -0.463127138 -0.237497867 0.906566461 0.2665866240 -1.237578e+00
## 109 0.830948657 0.695545887 1.249985249 -0.5146533054 -1.562322e+00
## 110 -2.077885877 0.326395913 0.765681341 0.1752990690 -6.911816e-01
## 111 1.767764742 -0.617505549 2.444491339 1.0475841697 -5.444615e-01
## 112 -0.087254577 0.477079417 -0.550615255 0.8105433818 -1.411287e+00
## 113 -2.033569524 0.240046093 -0.101562716 0.0171316031 2.449022e+00
## 114 -0.335886889 0.648107332 1.455362677 -0.6508451974 8.554967e-01
## 115 0.191337431 0.134461890 1.046698403 -1.0101861900 -1.866887e-01
## 116 0.769450820 1.299941475 0.013351167 0.2298705129 -9.468231e-01
## 117 -0.085517870 -0.371144536 -0.319804751 -0.9565750715 4.385305e-01
## 118 -0.336851055 0.847734558 -0.145722958 1.1397131741 -9.646414e-01
## 119 -0.435839630 0.976530671 1.218605452 0.0882135055 1.438536e+00
## 120 -1.442727352 1.606014225 -0.549725785 -0.1940253772 -3.452276e-01
## 121 0.967217311 0.892536331 0.822907089 -1.1541962452 -2.069637e+00
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## 123 -0.870514587 0.864864319 0.633523091 -0.0311639576 -1.642223e-01
## 124 -0.706240601 -0.632551300 0.282463919 0.2774844314 -2.282563e-01
## 125 0.174579483 -0.416490452 -0.135141698 -0.1543326591 -2.738637e+00
## 126 0.251810033 -0.936742984 1.581654708 -0.6064038767 -1.080590e+00
## 127 -1.888285383 -0.010714129 -0.584227039 -2.1129336785 -1.542566e+00
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## 129 0.098783753 0.854239613 0.798682401 0.1666499505 -1.574022e+00
## 130 -0.217057461 0.091909720 0.801686757 -1.9964282269 -5.091076e-01
## 131 -1.092538874 0.904815903 1.540284237 -0.3684420022 6.965189e-01
## 132 -0.305255738 0.906941339 -0.465095043 -1.1554875815 4.669159e-01
## 133 -0.638650125 1.339021098 0.560275450 -0.9145150491 -1.081070e+00
## 134 0.588836365 0.568944660 -0.082337827 0.0448355138 -5.899053e-01
## 135 -0.612019744 0.838789718 0.517283409 -1.6451103687 1.092579e+00
## 136 0.047444401 0.101536389 1.366838972 -1.3538647280 1.262731e-01
## 137 0.139837754 0.985791739 0.637356342 0.4602330716 -1.432407e+00
## 138 0.903047601 1.727869818 1.142909251 -0.9377196078 -6.940182e-01
## 139 -1.389982576 0.020282785 1.819206284 -0.9525978471 -3.224310e-01
## 140 -0.168602521 -1.108516273 -0.630056823 -0.2082192408 -3.888998e-01
## 141 -0.118844583 1.293834959 2.666631317 1.0655060205 1.067972e+00
## 142 -0.468902746 0.941075198 1.031017463 -1.5399595003 -1.027773e+00
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## 144 -1.103851175 -0.305418005 0.845184148 -0.4003166378 -5.805260e-01
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## 148 2.338642349 -0.099295516 0.609136468 -1.4343702679 -4.893583e-01
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## 152	0.356449058	0.645176188	0.400188162	0.1730247272	-1.643662e+00
## 153	0.021024378	-2.567328863	-0.134668357	0.2851245049	-4.174895e-01
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## 158	0.028568782	0.133413364	-0.309429112	-0.3618934400	-6.041473e-01
## 159	0.655056622	0.176247021	0.838143338	-1.0578574245	-1.686558e+00
## 160	0.083027754	-0.167291572	0.099959503	-0.6169340752	-7.111247e-01
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## 162	1.773048067	-2.018577179	1.102544233	-1.3945745383	6.578830e-02
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## 164	-1.177801781	-1.077039273	0.431591650	-0.1854771100	-6.135775e-01
## 165	1.808456874	-0.026424915	-0.328516305	1.0205017503	-1.503920e+00
## 166	-0.057611156	0.358622582	0.250952263	0.0568915659	1.031100e+00
## 167	-0.834077139	0.626772524	1.735047218	-0.3066300561	9.807895e-02
## 168	-0.103722846	0.884194180	0.752235735	-0.2285102092	8.496758e-01
## 169	-0.517894520	1.758536442	0.453184112	-0.1046628234	-3.668326e-01
## 170	-0.785710947	-0.138702150	1.379805008	-0.1397791923	-9.532561e-01
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## 172	1.647160371	1.430371794	0.313341746	0.2466821953	-1.002522e+00
## 173	1.664262801	-1.483411726	1.175061657	0.1464621206	-9.542839e-02
## 174	0.274174381	-0.931668888	0.915114491	0.1525695043	-2.390563e-01
## 175	0.248130091	0.844123249	0.706427262	0.4755879578	2.085487e+00
## 176	-0.220181074	-0.253501926	-0.055895406	-0.2003042995	2.060721e-01
## 177	-0.339603203	1.977458550	0.216877866	-0.0484264680	-8.680812e-01
## 178	-0.622394296	-0.899567562	0.019382860	-0.5538174109	-7.862033e-01
## 179	0.861138151	-0.051555302	0.284400818	-0.9013586382	2.143304e-01
## 180	0.038648460	1.555296175	-0.491744826	-0.8945590080	4.938807e-01
## 181	-0.351745142	1.426718422	0.237191344	-1.2969613836	2.504105e-01
## 182	-0.777879552	0.867215929	0.161280728	-2.7392594127	3.944833e-01
## 183	-0.747959154	-1.028063479	-0.655162520	0.2830215188	-1.418278e-01
## 184	0.036696161	-0.442487618	-0.414256918	-1.8547205094	-1.448371e+00
## 185	-0.102716366	-0.651325713	1.902342577	0.1834146395	2.883191e-01
## 186	-0.874377939	-0.061244698	-0.396465345	-1.5631549937	-7.137630e-02
## 187	0.423296548	0.649719307	0.882470236	-0.7019380812	1.656670e+00
## 188	-0.852731188	-0.702385700	1.246142360	-0.0770221845	-2.698078e-01
## 189	2.052703926	-0.654107243	0.451970192	-0.9528985664	2.777771e-01
## 190	-0.638982395	0.023941789	-1.390213767	-0.9163393316	-2.732031e-01
## 191	-0.173664222	0.387667273	-0.741704626	-0.1696034127	-1.075790e+00
## 192	0.840522178	0.150805568	0.052814151	-1.6647621287	-7.098074e-01
## 193	-0.860708516	1.249670917	1.398609164	-0.2274793781	4.429348e-01
## 194	-0.322162748	0.306658385	0.471635223	0.8476840330	4.985162e-01
## 195	1.835879297	0.564549723	1.197094708	1.0329937703	-7.437175e-01
## 196	-0.937142533	-1.164384416	1.450714255	0.7879864365	-1.963244e-01
## 197	-0.912683441	-1.229812065	0.715274985	0.3667606283	4.993276e-01
## 198	-0.667246542	0.001933466	1.059185373	0.2591113546	1.273762e+00
## 199	1.091147073	0.793484739	-0.190661619	-0.5218009873	-1.063687e+00
## 200	-1.173523868	-0.630193754	1.264143189	-1.7979605244	-6.330976e-01
## 201	1.571382046	-0.186833493	1.857464395	-0.7638853031	3.349073e-01
## 202	0.934056924	2.174298362	0.499818995	0.9744040933	-1.246397e+00
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## 204	-0.810688762	2.083805388	0.194931828	0.0532363286	-1.284981e+00
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## 207 0.667142674 -0.659247092 0.402413304 0.7206181067 1.559243e-01
## 208 -0.251675871 1.958585416 1.076495505 -0.4412311292 1.178959e+00
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## 211 0.623134487 -0.808076074 1.233384990 -0.5056990763 -2.609826e+00
## 212 2.700165297 0.733778933 -0.036634589 0.1715198214 -3.801759e-01
## 213 0.810350515 1.525627733 -0.079415651 -1.5494129686 4.543941e-01
## 214 0.781598423 -1.746547637 -0.634833946 -0.9152090478 -1.950681e+00
## 215 -0.019549347 0.014330135 -0.876037419 0.4552839499 -6.574847e-01
## 216 -0.458239851 1.011437564 -1.365498450 -0.2640206874 2.296571e-01
## 217 -0.470446369 -1.406632206 1.169048037 -1.2806469370 -3.994947e-01
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## 220 0.410035856 -1.007487797 0.293818396 -0.6257315636 8.894931e-02
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## 222 -0.672490299 -0.781317037 0.872093657 -1.3303607607 -7.735800e-01
## 223 -1.405374716 0.698971447 0.780615330 0.8686211561 3.279995e-01
## 224 -1.145461747 -1.825532416 -0.640782213 -0.0329602195 -9.927419e-01
## 225 1.546165548 1.487439759 -0.821052987 -0.9828069842 -1.206997e+00
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## 228 -0.040466291 -0.013789251 -0.452328572 0.4003794460 1.435346e+00
## 229 1.053281626 2.449446316 -0.117960354 0.4993045214 3.843149e-01
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## 231 1.236399208 1.100722281 -0.962200035 -1.4803885934 -8.733123e-01
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## 233 0.073006865 -1.459119015 1.775251708 0.2729520013 -1.340717e+00
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## 237 0.260694014 0.219144746 2.556525467 1.6217591046 6.670259e-01
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## 239 0.900858194 0.042220522 0.683083798 0.4808158223 1.914420e-01
## 240 0.372238224 -1.526860422 -1.321065162 -1.0871575197 -1.006198e+00
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## 242 0.354438473 2.114528530 0.445542354 -0.2421114473 -5.577229e-01
## 243 0.752228746 -0.919861013 2.437207581 -0.5012420522 7.749895e-01
## 244 -1.396191035 0.963552909 2.517266633 1.1085681371 -1.228216e+00
## 245 -1.298842960 -0.056365328 0.679610446 0.7964374429 -1.852844e-01
## 246 0.979207744 0.870362794 1.223397019 1.3373013851 -5.950300e-01
## 247 0.055609505 0.357010287 0.132153945 -1.2919388352 -9.864458e-01
## 248 1.531569229 -0.238164019 0.983846177 -0.5655961878 -2.423343e+00
## 249 2.079642955 0.229137958 1.225298873 -0.6585589342 -4.669260e-01
## 250 0.097958057 0.736369735 0.475198115 0.6616360515 5.626210e-01
## 251 -1.043845548 -0.512541303 1.311183867 1.8170354396 -6.466715e-01
## 252 -0.254222830 0.460979225 0.461090873 -0.1026563725 -1.051747e-01
## 253 -0.144631194 1.053982541 1.784911976 -0.0565118886 -8.888294e-01
## 254 0.508021691 0.612593863 0.733620178 -0.1798274896 1.001577e+00
## 255 -0.684522345 0.141659594 0.862184274 -1.5595716833 4.509224e-01
## 256 -0.866203423 0.426373274 0.027028016 -0.1552765194 8.175096e-01
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## 260 -0.657507270 1.853254553 1.613246965 -1.0747029387 1.856676e-01
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## 262 2.511999110 0.305460647 0.954850744 -0.2820612671 -2.490142e-01
## 263 0.363330435 -1.221081792 0.242170787 -1.0391223311 -1.487565e+00
## 264 0.536987469 0.258495982 0.095868578 -0.8548706975 -1.017349e+00
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## 273 -0.046487650 -0.220612755 -1.115466723 -1.5297366592 -1.244776e+00
## 274 -1.259656430 0.823633789 0.014758972 0.6475786918 -2.609124e+00
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## 276 -0.101995455 1.941721321 -0.229190874 2.2548093379 5.717321e-01
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## 278 -1.302486727 -1.503810951 1.197839996 1.4587049654 1.142210e+00
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## 286 0.548985682 0.664907200 0.312213458 0.1621871483 -4.015276e-01
## 287 0.002904726 -1.680038594 0.761359272 -0.6618724482 -9.220965e-02
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## 310 -1.783084525 0.521936172 -1.145832649 0.7544563792 -1.782475e+00
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## 314	1.340199100	0.416595475	1.249212699	0.0616249757	-6.206945e-01
## 315	-0.218045930	-0.306048697	-0.863489768	-0.7821351280	4.444885e-01
## 316	-1.568524902	0.071829331	0.046115651	0.1771624809	2.466536e-01
## 317	0.433477698	1.346476246	-0.508498912	0.0077575200	-5.342567e-01
## 318	0.673582001	-0.438816475	0.747201776	-0.0790319722	-2.415413e+00
## 319	1.191210782	0.517762810	-0.231741415	0.3646548787	-2.744322e-01
## 320	0.014346719	0.018242482	0.827478085	-0.1211168921	-1.154848e+00
## 321	0.808613626	1.120354457	-1.185444715	0.2628384049	3.439214e-02
## 322	-0.499426954	-0.156854168	-0.213823668	-1.2593990879	-9.607923e-01
## 323	0.195078868	0.637114541	1.421041829	0.5659765850	-6.410739e-02
## 324	-0.125814321	-0.100210494	-0.934943272	0.9783716912	-3.312865e+00
## 325	-1.076068496	1.282937782	0.836410196	-1.9141909452	4.236019e-01
## 326	1.158358365	0.919386581	0.958829735	-0.3694659260	7.274727e-01
## 327	0.628594463	0.842773420	1.248105186	0.4558945253	-4.540875e-01
## 328	0.414337602	-0.679093169	0.285985557	0.8549988589	3.576363e-01
## 329	-0.887182726	-1.199563128	-0.912799976	-0.9458478617	-2.801898e-01
## 330	0.232628495	0.440559735	0.826365409	0.2181691586	-6.011901e-02
## 331	-0.232464805	2.409709406	-0.293477794	-0.8292501448	3.461575e-03
## 332	1.692608402	-0.142241999	0.486943642	0.7667155633	6.983098e-01
## 333	-0.759653846	-1.217407175	0.202479821	-1.2166647274	4.302103e-01
## 334	1.247549379	-0.204071592	1.908104808	-0.8838567668	1.632672e+00
## 335	-0.371643707	0.320300027	0.927598490	-0.3033858977	-2.365602e+00
## 336	0.248479704	-0.131740664	-0.673981610	-0.4953833490	-1.161355e+00
## 337	-0.771194452	-0.835377046	-0.919815788	-0.9037788285	-1.650449e+00
## 338	-1.813288211	0.542453222	0.988210577	-0.3685370921	-9.085413e-01
## 339	-0.396190828	0.073253815	0.728809002	-1.8672593978	5.461664e-01
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## 341	0.768435256	-0.835773697	1.187986683	-0.1859732418	-1.360159e+00
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## 344	-0.119732790	0.197456057	0.844522144	-1.1987912113	1.265387e+00
## 345	-0.673376403	-0.646246646	0.192693316	0.7738689474	-1.341168e+00
## 346	0.049749553	0.436781352	0.722646164	-1.5373160604	-1.001138e-01
## 347	0.123699576	0.217432118	-1.223522234	-1.1447642706	-1.417942e+00
## 348	1.911867871	0.904617934	0.684570555	1.4157391476	-8.189313e-01
## 349	-2.205469771	1.519303307	1.339857393	-0.1688043404	1.030569e+00
## 350	1.908550293	-0.705589807	0.288406970	0.4332859544	-1.235217e-01
## 351	-1.523300084	-1.008792490	-0.014188609	1.6328589339	-9.123244e-01
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## 377 0.641987736 0.508380604 0.105329217 -1.3459988014 -2.513032e-01
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## 455 -2.175721331 0.509036327 2.634364355 -0.0520222068 -8.429571e-01
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## 457 0.247942207 -1.413870569 0.883179678 -0.6766912925 -1.296388e+00
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## 459 0.844755785 0.630921830 1.370344653 -1.8317552633 6.140365e-01
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## 468 -0.796539421 -1.673210151 0.248189671 1.5589215586 -1.079485e+00
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## 477	0.160134275	0.585673763	0.094167363	-2.1676636648	-7.402956e-01
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## 479	-0.136035073	-0.367652243	2.548903439	0.1332067035	1.522204e-01
## 480	-0.674532814	0.437149890	-0.932853625	1.8135508037	8.754921e-01
## 481	0.320504062	0.798176592	0.858802284	-0.1455944553	-3.560157e-01
## 482	-0.515856302	0.154167639	-1.131236802	0.2963031019	-1.572116e+00
## 483	0.481455076	-2.150832627	1.526048125	-0.1972734728	4.690829e-03
## 484	-2.128492498	0.474009286	1.081306080	-1.1318918437	-2.426438e-01
## 485	-2.275972145	-0.116834288	0.124997080	1.0121043825	-6.419308e-01
## 486	-1.225421986	-0.321426036	-0.525969017	-0.6521884882	-4.907339e-01
## 487	-0.064707009	-0.935857143	-1.560075238	-0.8216405350	-1.234255e-01
## 488	1.503795115	2.229852797	0.160449178	-1.5682969457	2.750685e-01
## 489	-0.874483820	1.011550004	-1.116852311	-0.3141139829	-3.995693e-01
## 490	-1.624123544	-0.324956125	-0.887129875	-0.2331980008	-4.056993e-02
## 491	0.710818447	-2.090810695	0.494639298	-1.1868206437	1.476883e+00
## 492	-0.177055147	0.408638302	-0.236021818	1.3511894906	-1.765310e+00
## 493	1.929366942	-1.473617804	0.855073045	-0.9507204682	2.683654e-01
## 494	0.224108509	2.327056989	1.691757255	1.1993239450	-2.736655e-01
## 495	-2.820792867	-0.759722830	0.063425386	-0.8026978129	8.451039e-01
## 496	1.937453949	-0.057487956	0.623799241	0.6220365745	7.100182e-05
## 497	-0.222542788	0.194671331	2.160306768	-0.2172308209	7.237881e-03
## 498	-1.086863953	1.727804509	0.149376775	1.4071273142	6.563543e-01
## 499	-0.583474942	-0.399871258	0.361737830	0.1144750507	2.952590e-01
## 500	-0.611014928	-0.736144600	0.681552938	0.2193053432	-4.560079e-01
## 501	-1.033418278	0.547782099	-0.934064525	0.3152546229	-5.996563e-01
## 502	0.008641335	-0.094625606	0.837199277	0.3122345424	-4.094101e-01
## 503	0.475404969	-0.938881140	1.118794660	-1.2222444126	1.370018e+00
## 504	-0.571337386	-1.189737370	-0.607725687	0.3216008906	-1.278234e+00
## 505	-1.234637314	0.291664652	-0.279443020	-1.0731829747	7.168785e-01
## 506	-0.461608299	1.290298479	-0.684476324	0.4373654146	-3.151429e-02
## 507	-0.827902508	-0.628103117	1.152990634	0.0229456616	-4.597576e-02
## 508	0.024931944	-0.299731379	-0.367522932	-0.0722048832	9.990815e-01
## 509	0.646128302	1.413636661	-0.252178023	-0.3318675436	-2.623311e+00
## 510	0.828946802	-1.677360466	0.170547961	-0.3695174656	4.422471e-01
## 511	-1.191074560	1.664516868	0.845815000	-0.9097169363	-3.397086e-01
## 512	-0.403299510	0.163469684	0.475175866	0.1116942139	4.821400e-01
## 513	-0.205341154	1.157960245	1.020855763	0.1145044000	-9.201658e-01
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## 516	0.797223971	-0.245410862	0.127697797	0.2620629535	-4.500343e-02
## 517	-0.424490918	0.578070426	1.695369945	1.7115325877	1.005011e+00
## 518	-0.259802224	-1.343456587	0.067225555	0.0201104456	2.240338e-01
## 519	-0.603164242	0.838306248	0.206164227	-1.4435681268	-1.935168e-01
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## 523	0.658139605	1.000927745	0.349241138	0.2267499371	2.382753e-02
## 524	-1.480030218	0.498095756	-0.570940508	-0.6849483589	7.107093e-01
## 525	0.435476052	1.649758915	0.893847261	-0.2018789844	1.810463e-01
## 526	0.759583153	0.396776717	1.554064618	1.3146722213	8.260940e-02
## 527	-0.063182735	0.699227243	0.313413330	0.1187620465	-2.461191e+00
## 528	0.135170861	-0.949666287	0.405246358	-0.7798057370	-1.032902e+00
## 529	-0.823741918	-0.561759678	0.723144446	2.5652229768	-4.932323e-01



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## 530 -1.189341619 -1.114262264 0.166556808 1.2473515092 3.004787e-01
## 531 0.626849583 -0.193330647 -0.193385605 -1.0291572627 1.642402e+00
## 532 -0.678799040 -0.810925554 -0.715214024 0.2474142075 3.386106e-01
## 533 -0.207160309 -1.023720052 0.971208320 -1.3258992906 7.456942e-02
## 534 1.257347461 -0.934461282 0.266911511 0.2014673250 -8.352778e-01
## 535 -0.471580985 -0.451345130 0.062810612 0.4352994433 8.104595e-01
## 536 -0.417523831 0.189873164 -0.049012334 -1.0391094785 -7.423419e-01
## 537 0.453721605 0.265676684 1.176232874 -0.6140195502 -3.464303e-01
## 538 0.210777225 -2.565569133 0.232275770 -1.2477150408 1.638693e+00
## 539 0.300050944 0.067469399 -0.079672300 -0.4757429863 -4.009551e-01
## 540 -0.262382584 -1.244349666 0.680988062 -1.4242530967 -7.670580e-01
## 541 0.265020621 0.371376702 -1.387499132 -0.5989496951 1.771651e-01
## 542 1.365056272 0.173479567 2.230876427 1.7325750086 1.840588e+00
## 543 -1.194396145 0.819238155 -1.661034979 0.2890614910 2.854341e-01
## 544 -1.282558695 0.397839844 -0.323794341 -1.2396291595 3.478667e-01
## 545 0.169630676 -1.729144838 -0.272847415 -0.5339033642 2.632093e-01
## 546 -0.822558528 -0.675227140 0.814903017 -1.2807369262 -3.011329e+00
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## 548 -0.852890123 -0.510338296 0.723189898 1.4688678536 -1.583008e-01
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## 610 0.218299694 -0.113915594 -0.173583473 -1.1644950283 1.233025e+00
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## 615 1.229080559 1.728478630 -0.140006034 1.2154180543 -5.738372e-01
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## 620 -0.526938573 -1.837049165 1.505571165 2.3761876458 -1.116187e-01
## 621 0.340176849 -0.493870416 1.015305541 -2.2070627396 1.006519e+00
## 622 0.175607389 -0.499623333 -1.016225778 -0.1407917206 4.643864e-01
## 623 -1.341376017 -0.841388089 -0.140345901 -1.0373663200 -6.658587e-01
## 624 1.015429139 0.218661655 -0.445069334 -0.6537273379 -8.146267e-01
## 625 -0.725804130 0.570325957 -0.893719683 0.1171144838 -2.067688e-01
## 626 0.594728338 -0.382755150 0.027836810 0.0258997100 -1.041622e-01
## 627 0.201508501 -0.676150160 0.543477810 0.0701752838 -2.667319e-01
## 628 -0.859856952 1.494828413 -0.146967351 -0.9429272205 -3.993121e-01
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## 630 -1.100393805 -0.275750408 -0.476631513 0.5599412822 -1.413613e+00
## 631 1.790312972 -1.522885596 0.796603796 -0.7007683766 -6.327277e-01
## 632 -1.459858375 -0.461195641 -0.983587780 1.0924466150 2.567710e-01
## 633 0.129011288 -0.092334546 -0.424166618 1.1060441680 1.149860e+00
## 634 0.536843082 0.537110948 -0.140792193 -0.2109341377 7.248367e-02
## 635 0.177391346 -0.800653839 -0.739586089 -0.0766131806 -6.030088e-02
## 636 0.234575534 0.792406900 -0.303047096 -0.1712740648 -6.804053e-01
## 637 -0.310193267 -0.107801653 -0.438105123 -0.3229938275 -6.696983e-01

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## 638	0.732472890	0.295036539	-0.265408301	0.2416610301	3.363703e-01
## 639	1.938297915	1.509033444	1.342175531	-0.4638158282	2.188645e-01
## 640	0.476192343	-0.092385446	1.508208379	0.4237652684	8.633576e-01
## 641	1.559699151	-0.216160544	-0.184591482	0.2102052093	1.184033e+00
## 642	0.223579968	-1.132127646	0.170145895	-0.2159998302	1.093575e+00
## 643	-0.093106662	-0.040504668	-0.548509637	-1.2770078612	-1.148300e+00
## 644	0.686090181	0.884844283	-0.590850698	1.3866718817	-3.275727e-01
## 645	-0.542086733	0.588877769	-0.358248790	0.4002964536	-5.307040e-01
## 646	-0.841139703	-0.563311868	0.366009545	0.9624502276	-9.438573e-01
## 647	-0.653449692	0.060260967	0.424497612	0.8092394180	-6.293396e-01
## 648	-0.190529788	1.115568706	1.343791098	-1.6412721239	-5.986113e-01
## 649	-0.042996692	0.757858285	1.120538195	-0.0471658474	4.061958e-01
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## 651	0.522983979	-0.853035797	0.722082940	0.1130692137	2.996297e-01
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## 653	-0.253130761	0.006809640	0.086920092	0.7200421641	2.797502e+00
## 654	1.415012510	0.015133692	-0.975187065	0.8619854039	4.505965e-01
## 655	0.607927626	1.057710266	-0.027770725	-1.1367501412	3.188203e-01
## 656	0.112584269	0.204266268	-0.633941996	1.1543115841	-4.859690e-02
## 657	-1.752345403	-0.734845364	-0.644895238	0.0643439517	-1.102951e+00
## 658	-0.785568356	0.610901076	-0.313608408	-0.4540024504	4.580547e-01
## 659	0.318714951	-0.114013021	0.232549156	-0.3398685215	1.060522e+00
## 660	-0.344407976	0.974219265	0.235944627	1.3686902414	-1.829659e+00
## 661	0.942882776	-1.330050519	-1.455714169	-0.2268565582	-5.205339e-01
## 662	-0.998272685	0.335196678	1.552461467	0.5646905653	6.081669e-01
## 663	0.052936046	-1.251598064	0.320436376	-0.4993597064	-7.600361e-01
## 664	0.144824127	0.676079483	0.295974288	-0.6609882955	8.947290e-01
## 665	0.362296978	0.783664599	-0.879393898	-0.0544432859	8.661947e-01
## 666	0.771358241	0.658766615	-1.766994495	-0.1798688858	-8.046518e-01
## 667	-0.958538404	1.158148572	-0.010150765	1.5383532559	2.382680e+00
## 668	0.356481745	0.750529865	-0.507781190	0.0568087811	-1.256052e+00
## 669	0.207154654	0.975536871	0.683042649	-0.4621942728	4.611012e-02
## 670	1.077469233	-2.314118863	-0.838192087	-0.6160883930	-3.209166e-01
## 671	0.059854199	0.706127077	0.158531733	-0.0338241583	2.179393e-01
## 672	-0.385702812	0.273608836	0.072979668	-0.3981416684	8.605059e-02
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## 675	-1.016076097	0.014217211	-0.520864816	0.0142139708	8.344362e-01
## 676	-0.716078190	0.598290249	1.043896897	-0.4058637556	-4.952913e-01
## 677	-0.307943578	-1.154006883	-0.742512066	-1.2530254412	8.471192e-01
## 678	-0.488298119	-1.198047223	1.525989550	0.4894352262	2.942622e-01
## 679	-0.213815505	-0.055082381	0.815140221	-1.0800244836	-2.053926e-01
## 680	1.127445589	-0.598323330	0.807381321	-0.6045841000	1.212963e+00
## 681	-2.267011306	-0.989324002	-0.276244828	1.0242419771	-1.993724e+00
## 682	1.253783857	0.419369636	0.613807943	0.4531617166	-2.780972e-01
## 683	2.212272104	0.675829750	-0.890110164	-0.4936562402	1.061804e+00
## 684	-0.705927437	-0.401059968	0.654828019	-0.2954417310	2.892069e-01
## 685	0.111219579	-0.562443699	1.179324973	-0.2108502252	-6.623444e-01
## 686	2.111889612	0.229625291	0.775872948	0.0593571810	3.709554e-01
## 687	-0.407610334	-0.772754367	-0.645944066	-0.3747114955	2.872814e-02
## 688	-0.475562810	-0.698217804	-1.209045209	0.6042126593	-1.906015e+00
## 689	-1.685776310	0.578049969	0.404581999	-0.4804289561	2.986303e-01
## 690	-0.359474580	0.003800765	1.394154436	1.0629100052	-3.299212e-01
## 691	-0.991746750	-1.297480510	-0.173334897	-0.4667878197	-1.677486e-01

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## 692  0.487148014 -0.861056597  0.726924681  1.1534287016 -5.656505e-01
## 693  0.198926241  1.274857016  0.458408887 -0.0308721285 -2.834533e-01
## 694 -0.749722511 -0.284772343 -2.018645375  0.4414780343  3.843625e-01
## 695 -0.064105646  1.360572509 -0.050438048  0.2343040700  7.501125e-01
## 696  0.684072402 -2.178568774  0.589728279 -0.0637857085 -9.865364e-01
## 697  1.592713660 -1.647576044 -0.137504542  1.2052286167  1.468632e-01
## 698 -0.623278851  1.080437346 -0.134640481  0.3693824765 -5.833925e-01
## 699 -0.317758860  1.396396182 -0.210999646 -0.9984108239  5.815748e-01
## 700  1.175754425 -0.327642940 -0.397479130 -0.2598265324 -1.397429e-01
## 701 -0.670238538 -1.351020224  0.942922020  1.4099045597 -1.942968e+00
## 702  0.395809588  0.148831192  0.688656739  0.8218733798 -6.356563e-02
## 703 -0.359204938  0.702022494  1.576790716  0.0115444832  8.122540e-02
## 704 -0.049836051  1.390937590 -0.052357956  1.0720965166 -1.072738e-02
## 705  0.807271137  0.871191175 -0.502199815 -0.6448063918 -1.041656e+00
## 706 -1.399458471 -0.685986324 -0.357616864  0.8113139366  9.219537e-01
## 707  0.946314494  0.457861894 -0.946686410  0.9307402317  1.962705e+00
## 708 -1.188285141  1.133462298 -0.742727594  1.6205481850  4.591030e-01
## 709  0.219415301  0.304081950  0.652702165  2.1190628883 -1.724087e+00
## 710  1.401413020  0.315437950  0.819768886  0.7066115865  1.362038e+00
## 711  0.509389536 -0.319993024  0.489926593 -0.2029575894  1.223818e+00
## 712  0.517035222  0.083315931 -2.003674367 -0.7207976682 -2.890564e-01
## 713 -0.765904914  0.454287888  0.467855761 -0.0579963285  1.084536e+00
## 714 -0.122771228  0.902099239 -0.762597742 -0.5625760728 -1.200385e+00
## 715  1.099089299 -0.652926586  0.021272081 -0.8373762555  2.471768e-01
## 716  0.338822088  1.032675884  0.153186285  2.4871810185  1.091480e-01
## 717 -0.414665257  1.721131387  0.708308916  1.0312459035  1.435785e+00
## 718 -0.535748772  0.324424299  2.240623980 -0.2640483467  3.213376e-01
## 719  0.051880339 -0.647546319  0.287389620 -0.3160761352  1.723135e+00
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## 747 1.262656558 0.492794223 0.177712718 -0.2440339168 1.140541e+00
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## 749 0.259338864 -0.902387834 0.183728123 -1.0937514061 -6.332098e-01
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## 755 2.153893389 0.431835537 -0.789574606 -0.4951484809 3.752548e-01
## 756 -0.107903606 2.271958638 -1.471536821 -0.8395225853 1.328382e+00
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## 758 -0.957317027 -1.374117682 -0.216334740 0.2914520810 -5.160986e-01
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## 775 1.757210590 -0.077980821 1.041426250 0.6850413150 1.456117e+00
## 776 -1.987166608 0.156493031 -0.828987971 -2.1056218896 -4.368503e-01
## 777 -0.215803891 0.582361620 -0.809223664 0.9596976185 4.583291e-01
## 778 0.510722174 -1.022982834 0.044661471 0.0275198499 5.854682e-01
## 779 1.295129241 0.543507455 0.179220796 -0.1014975958 -1.028410e+00
## 780 -0.936070802 0.523433694 0.243267324 1.9941024176 1.854938e-02
## 781 1.703067777 0.703780412 1.508179678 0.3500469670 9.329314e-01
## 782 0.335611803 -0.003105009 1.433205133 0.1436729264 3.588407e-01
## 783 0.419850040 -0.023028713 0.874328128 -1.2231061635 4.459325e-01
## 784 -1.398871033 -0.682258577 1.403680114 1.1010704165 6.742557e-01
## 785 -0.037766290 -0.210816744 0.346370901 -0.9982021847 2.435444e-01
## 786 -2.230287559 -0.501740086 0.241932609 1.6066501727 -2.015975e+00
## 787 0.577285407 1.229977990 -1.727058020 -0.2364679025 -9.324066e-01
## 788 1.631491197 -0.562903090 -0.528738495 0.3495413923 9.758806e-01
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## 791 -0.117025852 -0.243949132 0.605157487 -0.5808574360 -4.578816e-01
## 792 1.024664675 0.366030127 -0.374074053 1.2046756343 -3.421430e-01
## 793 -1.675776256 1.066963869 0.130835037 -0.4871797472 8.430698e-01
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## 798 -0.645597389 -0.417969416 2.342392337 0.5648926917 3.477636e-01
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## 801	0.638314185	0.486903975	1.105267464	1.3009676200	6.260426e-01
## 802	-0.048953268	-0.536099207	-1.870251757	1.4866127263	-1.390506e+00
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## 804	0.537398229	-0.319594316	0.118788632	0.3726243140	-7.004669e-01
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## 807	0.070207108	-0.256785959	-0.752958069	0.1671772282	-7.786599e-01
## 808	-0.531060853	0.899296488	-1.007369800	-0.4929537178	-3.923817e-01
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## 810	0.837421546	-0.049084064	-0.534348487	-0.7447010223	5.952591e-02
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## 812	0.402544795	-1.694262830	1.262199552	-0.5090325635	5.869242e-01
## 813	1.019969354	1.265789434	1.036643117	-1.4929644603	1.700120e+00
## 814	-0.500832836	-0.507192938	-0.663525886	1.2193022977	-8.103366e-01
## 815	-0.052497626	1.862932707	1.128038140	0.2731403654	4.978147e-01
## 816	-0.071064822	0.475304069	-1.173203279	0.9214322830	-4.864697e-01
## 817	1.729728732	-0.904336530	0.088631339	-0.5393488975	7.596586e-01
## 818	0.342377690	1.515493844	1.431435558	1.1991549901	-1.730802e-01
## 819	-0.602376385	0.091978524	0.376617564	0.9551546114	-6.786710e-02
## 820	2.467979064	-0.833625407	0.703581538	0.2150396791	1.738276e-01
## 821	0.277048722	-0.362588914	-0.193742751	-0.1520176866	1.718493e-01
## 822	-0.472731487	-0.704911196	0.737316614	-1.0064744751	-9.586201e-01
## 823	1.873666038	-0.606643867	-1.385151773	-0.4589236962	-3.006254e-01
## 824	0.647757299	-1.144102127	0.173206680	-1.0605406203	5.668289e-01
## 825	-1.925813140	1.219156750	0.633062438	-1.9860227104	-3.834146e-01
## 826	-0.017320829	0.113904323	-0.754421030	-0.0076307174	-5.193087e-01
## 827	-1.090915988	-0.115224923	0.029944995	0.3807282753	1.143669e+00
## 828	0.069713797	-0.405584298	-0.366861696	0.4863979769	-6.474877e-02
## 829	1.287351114	0.514444796	0.567035658	0.1628165517	1.006824e+00
## 830	-0.503953554	0.581663789	-0.040723820	1.7086232719	5.701370e-01
## 831	-2.413655796	0.073942378	-0.750426360	0.7196359029	9.677446e-02
## 832	-0.523767994	-0.987410840	-0.905443574	-0.0225736335	-1.940646e-01
## 833	-1.419480739	0.705710986	1.296525698	-1.8248362334	2.281098e-01
## 834	0.338160752	0.286766930	0.428468068	-1.8874143342	4.514941e-03
## 835	1.118803216	0.241563315	-0.367782783	-0.5073486192	1.773825e+00
## 836	-0.016198545	-0.562567593	-0.240682508	-0.6180221581	-1.484537e+00
## 837	0.875088578	-1.752269476	0.940543046	-2.5002215880	1.595758e+00
## 838	0.519271394	-0.199124938	-0.079530212	-0.0382163118	-3.060973e-01
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## 840	-0.413736195	-0.440740342	0.302231420	-0.3179338302	7.946535e-01
## 841	0.790459823	0.239928345	0.565216297	-0.2211058719	-1.581779e+00
## 842	-0.877234903	-0.698266051	0.898597378	-2.0255150151	5.091996e-01
## 843	0.005097475	-0.047458449	-1.700438843	0.6173652853	2.683427e-01
## 844	-0.326682382	0.956272094	0.294158337	2.0673361519	-6.722176e-01
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## 846	-0.221861939	-0.263522987	-1.341162448	-1.3445817199	-3.435817e-01
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## 858	-0.563802756	0.616378695	-2.255102752	0.7723315513	-1.002323e+00
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## 865	3.445896640	-1.096914539	0.679500476	0.8169604576	-3.038810e-01
## 866	-0.241482226	-0.396800657	1.132164420	-1.3164328004	1.995717e-01
## 867	0.840888481	-0.644458994	0.932835763	1.2420163378	-7.905223e-01
## 868	0.894335957	-0.674195329	0.018410118	0.2237873727	2.392008e+00
## 869	0.342641786	0.587692593	0.516720823	-1.5196021339	-9.335080e-01
## 870	0.965749063	0.577206358	0.727002264	-0.6148020726	1.959618e+00
## 871	0.433532415	0.225411351	-0.538392993	0.0319890971	-7.017004e-01
## 872	1.132247975	-0.215859979	-0.708052654	-1.7168086662	9.498550e-01
## 873	-0.038174287	0.997129498	0.093302476	-0.7613117365	1.171830e+00
## 874	-0.089615281	0.284756961	-1.069055934	-1.3085774643	-1.178512e+00
## 875	-0.267544193	-1.116166953	0.106038917	0.2160769136	-6.835607e-01
## 876	-2.551000325	-0.677721561	0.838949233	-1.1938813978	-7.608364e-01
## 877	-1.767761407	-0.377501841	0.290183703	-0.9687092794	1.197859e+00
## 878	-1.139481078	-1.610188799	0.131161170	-0.0126890390	-1.750273e+00
## 879	0.683439675	0.330473684	0.616561790	1.7552062948	-4.665328e-02
## 880	-1.910077129	-0.401998450	-0.759978903	1.7256672756	-9.615269e-02
## 881	-0.189089150	0.514740073	0.085784304	-1.3929654388	3.652078e-01
## 882	0.901387366	0.331524148	-1.469368155	-0.1621150473	2.376195e+00
## 883	0.225947077	0.382513917	-0.867755254	-1.0461211411	-6.952004e-02
## 884	-2.139698235	-0.388567407	-0.302849066	0.5003966971	-4.798687e-01
## 885	-0.492639640	1.352553786	1.204686981	-0.7580874113	-1.997102e-01
## 886	-0.294299233	0.301481977	-0.363535349	0.6282597296	-6.018159e-01
## 887	1.018917847	0.361109077	-0.567685233	1.0862446228	-1.861264e-01
## 888	-2.510698433	-0.562844515	-0.368508102	1.2262528111	7.638707e-01
## 889	1.071467702	-0.064029175	-2.543590639	0.5477011263	3.344283e-01
## 890	-0.497311457	-1.713327982	-0.010592349	0.4957304972	5.995231e-01
## 891	1.712552294	-1.173325675	-0.058500134	-0.3822106331	6.738414e-01
## 892	-0.492513407	-0.483349821	-0.846700745	1.4542211869	3.954181e-01
## 893	0.362762895	2.496226405	-1.031996383	1.2124344904	1.173867e+00
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## 896	0.772641807	-0.599920852	-0.519883909	0.1488668069	4.045489e-01
## 897	0.609381492	1.766281716	0.679993993	-1.3327393682	2.743041e-02
## 898	-0.264224168	-0.214072735	-0.357762221	-1.2634688709	-1.035096e-01
## 899	1.225699389	1.719476370	-0.829404545	-0.7951153506	-1.101388e+00
## 900	-0.015748594	1.993152918	-0.190819489	0.3581735249	7.894520e-01
## 901	0.396368663	-1.546169652	0.810196070	0.1465701796	1.288589e-01
## 902	0.497468550	-1.817672980	-0.048218985	0.5173914099	-5.898965e-01
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## 904	-0.226424019	1.570521612	-1.620010524	0.3985855981	4.481301e-01
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## 909	-1.404580756	-0.649767762	-1.062897928	0.8958183517	-1.208201e+00
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## 921	-0.866498814	0.371385831	1.961623403	0.0589837764	5.843247e-01
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## 924	-0.232259549	-0.016703890	-0.206449529	0.1583260627	-5.157900e-01
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## 970	0.147198454	0.073519178	-0.263616010	0.0234358432	-2.599183e-01
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## 981	0.982654754	1.778238361	-1.211988577	-0.1252971587	-2.477881e-01
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## 986	-1.416437969	-0.934904451	-1.162724793	-0.2372029918	-1.915041e+00
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## 992	0.211322547	-1.876929639	0.139698129	0.8886294203	8.569913e-01
## 993	1.005917157	1.341611141	-0.334881900	-0.4481613848	2.215265e+00
## 994	0.568185270	-0.019757016	-0.008893050	0.2519284839	1.303822e+00
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## 996	0.299590760	-0.330199216	-0.734062668	0.7881995577	-5.474658e-01
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## 998	-1.438191169	-0.443094719	-0.253689154	0.0674170223	-3.727912e-01
## 999	-0.600269925	0.045410841	-0.113341795	-0.4750892860	1.272892e+00
## 1000	-0.410378985	-0.799138263	-0.276948555	0.1232059004	2.126252e+00
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## 1016 1.436045529 -0.633207025 0.556997507 0.4665871876 -1.384132e+00
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## 1059 -1.968562520 1.183424453 0.098566788 0.2196580481 9.349167e-01
## 1060 0.899234231 -0.034855764 -0.251201958 -0.4103154861 2.934170e-01
## 1061 0.551352854 -0.763538819 -0.461462401 1.1437065551 1.212348e-01
## 1062 1.727268156 0.599216151 -0.628264569 -1.0639269353 2.134352e+00
## 1063 1.700790979 -0.075199995 -0.848586034 1.6511508461 5.268305e-01
## 1064 0.233063513 0.471471195 -0.043962374 -0.7283326447 -8.398702e-01
## 1065 -0.697172190 0.297142602 0.300377639 1.0742804984 1.925150e-01
## 1066 -0.374874552 -0.117815482 -0.737315168 1.1048435497 3.093049e-01
## 1067 -0.130087760 0.284924728 -0.985205265 -0.1862327045 -3.723545e-01
## 1068 -0.933250279 -0.993569820 -1.083250652 0.1794091514 -6.054577e-01
## 1069 1.374600576 -1.796721708 0.590315936 -0.7209699055 1.118112e+00

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## 1070 1.244073613 -1.190159144 -0.714662039 -0.4633000237 -3.956211e-01
## 1071 0.158305855 -1.680273308 -0.997295477 -0.2077148363 1.036849e+00
## 1072 0.466739443 -0.828866188 1.124850883 -0.0145216801 4.287483e-01
## 1073 1.258857771 0.419223903 -1.513422865 -1.0597455739 1.547185e+00
## 1074 1.106494252 1.042608416 -0.485658387 -3.3486666366 6.283238e-01
## 1075 -1.349193421 -0.326755451 -1.939589955 1.3162105636 -1.136625e+00
## 1076 -1.627706050 0.376558101 -0.560924199 0.9591334358 -3.518386e-01
## 1077 0.259090993 1.527289961 0.403846885 1.5518816081 -3.330939e-01
## 1078 0.992796868 -1.579922871 0.186717063 -0.3670080185 -1.651090e+00
## 1079 -0.837637887 -0.492733379 2.184074084 -1.0831369430 9.286581e-01
## 1080 -0.297179804 -0.521535671 -0.157223122 -0.2412622941 2.201029e+00
## 1081 -0.120556419 0.113174612 0.229132588 -0.5991778713 1.460208e+00
## 1082 1.212544079 -0.877817507 -1.137941660 -2.0694906412 -4.134968e-01
## 1083 -0.052881997 1.074479852 0.615355853 0.2020558854 3.529997e-01
## 1084 1.390357635 -2.046216388 -0.204068982 -0.2419594668 -1.329090e+00
## 1085 -0.022300069 -0.378269528 -1.477844864 0.1055661159 -1.036921e+00
## 1086 1.251994825 -1.592690798 -0.168055443 -0.4219135975 1.458900e+00
## 1087 -0.937406675 0.983168864 -1.418922161 -0.4951564235 -2.343764e+00
## 1088 -0.669287909 -0.250842668 -1.095399967 1.3522409094 2.176759e-01
## 1089 1.064858305 0.007673635 0.325316063 0.5449026506 -1.140677e+00
## 1090 -1.275080559 0.684788163 0.659919178 0.3955641374 8.364627e-01
## 1091 0.270970692 -0.148902670 0.492864927 -1.8879268510 1.595960e+00
## 1092 -0.509271640 -0.422476306 0.698966869 -1.7771068321 1.072756e-01
## 1093 -1.523220009 0.532685455 -0.866851331 -1.7796876203 -9.396282e-01
## 1094 0.190075531 -2.670398051 -1.421632336 0.6078257801 -4.205395e-01
## 1095 -0.485788175 -0.718700421 0.243113948 1.2936247706 7.300621e-01
## 1096 -1.652680954 0.751566138 -0.216813902 0.6196994596 -8.148255e-01
## 1097 -0.995715083 -0.401329926 -0.898655751 1.0682200413 7.368770e-01
## 1098 -1.034720036 -0.319013987 1.145150053 -1.3114744229 4.507920e-01
## 1099 1.108266567 0.729998529 -1.889578089 0.7169144800 1.111719e+00
## 1100 -0.928740798 -0.532537148 0.997815674 2.2399334024 -1.300230e+00
## 1101 -0.464479593 1.326355345 -0.562202560 -0.3173636278 -1.343487e+00
## 1102 1.589411311 0.761432629 0.184950091 -0.9749398539 7.772847e-01
## 1103 0.057443054 -1.148609711 -2.215558810 0.5632213261 -1.074319e+00
## 1104 0.044181247 0.477843971 -0.100563662 -1.1871663706 -6.306715e-01
## 1105 0.722116742 -0.656907757 0.558230993 0.5202494066 -6.736632e-01
## 1106 -0.192472039 -3.357778419 -0.959126955 -0.0513231764 4.716023e-01
## 1107 0.567517389 -1.052762550 -0.991749348 -0.3488073794 2.606872e-01
## 1108 0.514831727 0.544942046 -0.428380748 0.2335097416 2.751715e-01
## 1109 1.398279970 -0.327880593 0.036841762 0.0521047539 -8.778717e-01
## 1110 -1.404810489 -0.294938843 1.806967186 -0.1450457086 5.099695e-01
## 1111 -0.592550342 -0.703310528 -0.044221327 1.6426656328 4.590184e-01
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## 1113 0.839941166 0.416450413 0.235048408 0.6694734720 -8.218525e-02
## 1114 2.307477008 -1.519614617 0.769811045 1.6191794423 -7.580921e-01
## 1115 0.226723475 -1.514918747 0.642831247 -0.7601824945 -5.385982e-01
## 1116 -1.490774331 -2.574232431 0.165868740 0.7768701362 -7.531678e-01
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## 1119 -0.781627419 0.687068832 -1.394355171 0.7929457110 2.480733e-01
## 1120 0.414601467 -0.195028271 -0.737910300 -0.6529058420 7.980989e-02
## 1121 -0.852444965 1.010055433 -0.676379663 -0.1185381731 6.031214e-01
## 1122 0.220609118 0.162144051 -0.590135606 1.1120215499 -1.708269e-01
## 1123 1.028416529 -0.065438128 -1.190570748 1.1842916970 5.044042e-01

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## 1124 -2.231569497 0.378071210 -1.332407165 0.7822295237 1.356526e+00
## 1125 0.159102307 -0.367173925 0.204159067 0.6913670640 1.117524e+00
## 1126 1.145069057 1.788227175 0.343850142 1.5778074701 6.801548e-01
## 1127 -1.075694173 -0.429254327 -0.654942743 0.4297518175 8.291822e-01
## 1128 -0.866616677 -0.915358191 0.709450057 0.2419982631 2.754601e-01
## 1129 0.306933047 -0.345998209 -0.908875570 2.5015286111 7.167020e-01
## 1130 0.786527419 0.528665820 -0.477729432 -0.5892137422 -9.317605e-01
## 1131 -1.652313633 -1.775768123 0.972600797 0.0870470804 8.567823e-02
## 1132 0.607961506 -0.184952630 -0.516080669 -0.3652924212 -1.878778e+00
## 1133 0.406869512 -0.211798684 -0.192905872 -1.9333222965 1.302329e+00
## 1134 -0.449901256 0.703778631 1.276567808 -1.1148877902 4.693375e-01
## 1135 -0.013391996 -0.907498136 -2.183559073 -1.0904214592 -8.950030e-02
## 1136 0.352750137 -3.267600613 -1.560111361 -0.3721688198 1.247101e+00
## 1137 -2.372048051 -0.514017540 -0.364028694 -0.1867528387 8.045574e-01
## 1138 0.038814360 0.994861849 -0.625007295 -0.5495036584 1.282529e+00
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## 1140 -2.077448367 -0.857608950 0.582622244 1.2213302290 2.969899e-01
## 1141 -1.757813800 -0.783149593 -1.912695757 0.5151308438 2.141834e+00
## 1142 -0.396268385 -1.249120942 0.142364525 -0.9222966479 2.636124e-01
## 1143 0.315717496 0.782715153 -0.334977627 0.6108711466 -7.769535e-01
## 1144 0.507367571 -0.039710498 1.901496658 0.3666168935 6.211725e-01
## 1145 1.107043077 -1.625362182 0.477038014 0.4344838467 -4.273679e-01
## 1146 -0.508439989 0.873758345 -0.667476924 -0.1051066551 3.180238e-01
## 1147 -0.786795922 -0.460158602 0.479847830 1.4905378920 2.872334e-01
## 1148 -0.390347458 -0.836490963 -0.064401169 -1.3358509470 -2.005204e-01
## 1149 -0.243424329 -0.189042387 -0.417783521 -0.0524072477 -3.482421e-01
## 1150 0.580488351 0.487075434 0.978936427 -0.5859910428 -4.777861e-01
## 1151 -0.713489976 -1.073557723 1.473830000 0.9412127401 -3.541070e-02
## 1152 -1.170101823 -1.194690084 0.648544585 -1.5904386420 4.807809e-01
## 1153 0.600199943 0.366395221 -0.139546607 0.3643529053 -8.577612e-01
## 1154 -0.344465181 1.500251731 -0.819407328 1.9394413713 9.807832e-01
## 1155 -0.607436363 2.027512308 -1.133230315 -1.8813931194 1.551869e+00
## 1156 -0.380264534 -0.425307678 -0.884432318 -0.9220152845 -5.152304e-01
## 1157 0.027196788 0.803452902 0.251275337 -0.1478360179 -7.141916e-01
## 1158 -0.590454145 -0.676337267 -1.305599556 0.3171992897 8.202397e-01
## 1159 0.224739070 -0.181382304 0.679711826 -0.2020399686 -8.274574e-01
## 1160 0.517066336 -0.884236006 -1.125661689 -0.3947395707 1.107989e+00
## 1161 0.464036234 1.083723236 -0.644755227 -0.4032860304 2.441578e-01
## 1162 -1.490371566 -0.127421897 -2.408867040 -0.0004607403 5.050663e-01
## 1163 1.110218959 -1.247174688 0.858055793 -0.3894618200 -8.255957e-01
## 1164 1.254685520 -0.547939288 0.391205469 -0.1472074779 5.127708e-01
## 1165 -0.670522006 -0.108962669 -1.407204839 -0.6394892762 1.562781e-01
## 1166 -1.250716337 -0.019536831 -1.386727932 2.0527518637 5.343556e-01
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## 1168 -0.575757750 -0.656056999 -0.252870597 -0.1338694105 -1.044889e+00
## 1169 -0.819847335 0.149051148 0.104328095 1.9899060703 1.842514e+00
## 1170 0.493963644 1.047775712 1.789444305 1.0286450418 2.992691e-01
## 1171 1.420903105 0.163050731 -0.670073879 -0.7184685864 -1.133916e-01
## 1172 0.823407759 -1.325801208 -1.397665126 0.8240876622 9.337898e-01
## 1173 0.162661119 -0.667398284 1.196353756 -0.5745213178 -6.426867e-01
## 1174 -0.874737265 -1.380726491 -0.162171342 0.8877004752 7.503079e-01
## 1175 0.358506857 -1.105784013 -2.066504937 0.4603292392 1.285307e+00
## 1176 -0.361927424 -0.784609556 -0.356253896 -0.9555539874 2.615340e-01
## 1177 -1.987806262 0.871642181 0.620866932 -0.7136525875 1.786885e+00

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## 1178 -0.099021764 -0.417732252 0.546749260 -1.1574405554 -2.942012e-01
## 1179 0.195177070 0.042282821 0.428405254 0.6447510621 1.158724e+00
## 1180 1.270650152 -0.031108989 0.012065096 -0.0641678519 2.398986e-01
## 1181 -0.625690660 -0.431581350 -0.672983898 0.2398216465 2.867216e-01
## 1182 -0.344735019 0.226969996 -1.158784521 -0.1909712308 1.930125e+00
## 1183 0.125420793 -0.737412232 -1.469059751 0.6418699131 4.857367e-01
## 1184 1.791657401 -0.839493327 0.656518353 1.3252007585 1.201277e-01
## 1185 -2.330849431 -0.049116699 -1.224281534 0.1329967743 -6.968889e-01
## 1186 0.547521302 0.848048276 -0.814101775 -0.9237330959 1.073238e+00
## 1187 -0.758424504 0.849492185 -0.259989189 1.7661687370 1.010361e-02
## 1188 0.964733426 0.801045394 -1.899088988 0.3216459993 -7.194589e-01
## 1189 -0.284641018 -0.975652542 -0.740144088 0.3369722527 9.318286e-01
## 1190 -1.021572603 -0.431443714 -2.204538238 -0.5213006512 -1.123175e+00
## 1191 0.354451195 -2.342673698 0.167196772 0.5973901737 -6.878395e-01
## 1192 -0.081295436 1.288493570 0.365084751 1.3398047402 1.792906e-01
## 1193 0.062268681 -0.967928124 0.223709186 -0.1348680673 -1.317857e-01
## 1194 0.575943955 -0.747821866 0.238787829 0.0888428547 -1.817348e-02
## 1195 0.125112027 -0.514203421 0.759795318 1.3241899779 1.505198e+00
## 1196 0.490271590 -0.146677941 0.665558806 1.0983354185 8.009286e-01
## 1197 -0.193602230 0.483902294 -1.662262217 -1.1368526280 1.090604e+00
## 1198 1.467699754 -0.756643830 0.715536195 -0.2144059624 1.135625e+00
## 1199 -0.580721923 -0.053448561 -0.819605994 0.6387323777 1.855244e+00
## 1200 -0.473750212 0.639017037 0.217429581 -0.6135479283 4.252772e-01
## 1201 -0.978291007 0.656096235 -0.999227500 0.5790058544 1.226342e+00
## 1202 1.485494631 1.583268520 -0.927400855 0.8415756513 -5.366413e-01
## 1203 1.040032279 -1.140721079 -1.176126982 0.0646444971 -9.152840e-01
## 1204 -2.006307437 0.616175099 0.199978464 0.1743127445 1.315986e+00
## 1205 0.540976936 0.281006897 -1.917281453 0.5409137435 -1.067750e-01
## 1206 1.785825965 0.799504101 -0.173725973 1.2676934428 -1.253302e+00
## 1207 0.451069210 -0.291510648 -1.814750527 0.7386113249 -4.901021e-01
## 1208 0.129555091 0.828920876 1.219701812 -0.1553757318 -1.365218e+00
## 1209 -0.285496495 1.240843448 -0.319035845 0.4799944177 -2.244352e-01
## 1210 -0.327102192 1.452511018 -0.951487811 -0.2987152588 -2.066980e+00
## 1211 -2.365413188 -1.510255957 -0.543819117 0.2401302194 -4.198310e-01
## 1212 0.808431808 -0.564837474 -0.610591961 -0.7137371638 -2.293893e-01
## 1213 -1.012929603 0.447718275 0.583410946 -0.4270488092 1.896520e-01
## 1214 -0.099439426 0.280624356 -1.160784917 1.3490987636 -1.376584e+00
## 1215 -0.066636801 1.249723667 -1.793055479 1.5129207569 4.021911e-01
## 1216 -1.032473298 1.615296946 -1.393862918 1.5001143068 -6.394498e-01
## 1217 0.170176203 0.532975541 -1.821067692 0.8764828844 -4.666646e-01
## 1218 -0.597631520 -0.557978513 0.664494879 0.3854681561 2.976984e-01
## 1219 0.189722042 -0.787390380 0.053966548 0.1779723541 2.648706e-01
## 1220 0.142299455 -0.180303965 1.120209053 0.1859738867 -4.189203e-01
## 1221 0.047425558 -0.789886019 -0.785564769 -0.7908269686 3.712401e-01
## 1222 2.709012295 -0.838764347 -2.094734292 -0.4591113197 7.299496e-01
## 1223 -0.179073141 0.490014757 -0.268814081 -2.5268267572 6.322415e-01
## 1224 2.677970684 -1.612575516 -0.800906915 -0.6718227444 -1.899478e+00
## 1225 -1.375158015 1.232608483 -0.611171370 -2.0631254975 -7.861336e-01
## 1226 -0.520237108 0.538957446 0.912371729 -1.6893463578 1.223366e+00
## 1227 0.464494689 -0.892560618 0.624093977 0.9398620732 3.686145e-01
## 1228 -0.472375289 0.684799576 -0.295363718 0.8503601252 -3.181300e-01
## 1229 1.845945441 -0.187949155 -0.699119058 0.0679728215 -1.813941e-01
## 1230 -0.120745792 0.498996960 -1.602485822 -0.1428606488 2.040604e+00
## 1231 -0.873064379 1.465359097 0.850086598 -1.2122359649 1.743530e+00

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## 1232 -0.738870930 -1.068215054 -0.011817995 -0.6158128227 6.767885e-01
## 1233 -0.865841802 0.533870289 -0.224264743 -1.1742948554 9.062891e-01
## 1234 -0.536562028 -0.719298427 0.211709113 -0.8968123653 2.019815e+00
## 1235 1.823106366 -2.321947043 -1.589919624 -0.7360919145 1.252238e-01
## 1236 -0.017910956 -0.759013968 -2.853115104 0.6052783304 1.095442e-01
## 1237 0.344038213 0.748124331 -1.191493912 0.5341116142 -8.160889e-01
## 1238 1.294550643 -0.113293634 0.517640588 -0.0662322898 9.664238e-01
## 1239 0.372913897 -2.341304827 -0.075197224 -1.0277952184 1.490027e+00
## 1240 -1.565598534 -1.422671951 -0.042907622 -1.8126398879 2.138044e+00
## 1241 0.961606978 0.319952877 -2.518438960 0.8744172069 3.357275e-01
## 1242 0.655242297 -0.934372944 -1.249504449 -3.8131896110 -1.325513e-01
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## 1244 -0.516169654 1.344043249 -0.852489987 -1.6594212437 8.816626e-01
## 1245 1.884970365 0.305167244 0.048390220 0.3477803213 -8.548964e-01
## 1246 -0.981621192 0.651808303 -0.522127280 0.4576936337 1.164697e+00
## 1247 1.206659956 0.583379414 -0.142085535 -0.9803293181 6.666473e-01
## 1248 -0.821279803 -0.603085106 0.691016854 1.5314053939 -7.930571e-02
## 1249 -0.679465945 -0.464844131 -1.717661760 -0.5079990755 4.558731e-01
## 1250 -0.018647725 0.014323687 -0.150610555 -1.0252878305 2.320278e-01
## 1251 -0.323594480 -0.527080767 -1.885597858 2.0268691578 1.040731e-01
## 1252 1.499455162 0.999017767 -0.058303231 -1.5097678804 9.089874e-01
## 1253 -1.322743882 0.386053527 -2.046849162 1.0095981916 -6.746666e-01
## 1254 2.884462879 -0.931785031 -0.640693632 -0.3469651909 1.252343e+00
## 1255 0.063327504 2.307529148 -0.821092724 -0.7695767191 4.518607e-01
## 1256 -0.662092152 -0.852946517 -0.854900234 -0.1373555210 2.046199e+00
## 1257 1.405425645 -0.770874337 -0.643768708 -0.2730145936 1.664688e-01
## 1258 -0.593732753 0.775093848 0.888663986 1.2837728332 7.979409e-02
## 1259 0.755778530 0.366753727 -0.203707676 -1.2759469149 -8.242103e-02
## 1260 -1.398784768 -0.696385773 -0.164164211 -0.2676289800 1.123643e+00
## 1261 0.923676891 -0.036533342 0.449837631 2.0312560061 -1.806041e-01
## 1262 -1.111494148 0.983741727 -0.480159846 -0.0569360289 -9.479251e-01
## 1263 -1.219776464 -1.031815516 -0.515558261 0.6011545300 -3.988828e-01
## 1264 -0.812321489 -2.225906418 -0.411511988 0.1098041640 -2.835949e-01
## 1265 0.774626753 -0.630344344 0.778144766 -0.1836841033 3.331419e-01
## 1266 1.818180460 -1.106982888 -0.580270120 -0.2462857212 -1.890619e-01
## 1267 0.580391454 -0.228795106 0.092419246 0.1402240824 -8.742362e-01
## 1268 1.540817471 0.567136506 -2.194590123 0.9189374987 2.994653e-01
## 1269 0.246003058 -0.629521435 -1.188746481 1.5142110042 5.062380e-01
## 1270 -0.898670791 0.410817360 -2.263558535 0.3747050106 -5.159387e-01
## 1271 0.881229361 0.183051513 0.136961086 -0.9210477551 -1.125046e-02
## 1272 -0.322745376 -1.142013304 0.378864800 0.0487873432 2.243342e+00
## 1273 0.214091663 0.335050199 0.153390199 -0.3287716507 4.938680e-01
## 1274 0.048724541 -0.422218950 -1.899652823 1.2304015371 1.226889e+00
## 1275 -1.813098230 1.734147403 0.030935567 -1.1175117229 -4.099777e-01
## 1276 -0.812271071 -0.011788085 0.680171868 1.3420337934 6.475593e-01
## 1277 0.222878551 -0.022007938 0.604137978 -0.5848533098 1.131532e+00
## 1278 -1.281734132 -0.571770531 -1.119062037 1.2262615321 3.634459e-01
## 1279 1.741958998 0.116624148 -0.446109403 0.4454180868 -4.694176e-01
## 1280 0.921757244 -1.020416350 -1.545796993 0.9202140876 -2.695488e-01
## 1281 0.605366243 -0.979827113 -0.753043230 0.1276083279 -2.492927e-01
## 1282 -1.652002009 0.253075889 -1.459974197 -0.5572743162 -2.397757e-01
## 1283 1.441067034 -0.096902337 0.136649877 -0.2990165507 7.596634e-02
## 1284 -0.576253996 0.737556921 -2.537063344 0.5354121759 -1.696136e-01
## 1285 0.522364913 -0.166529685 -0.551856032 -0.3588280328 1.312261e+00

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## 1286 1.709348566 0.435617346 -0.073404701 -0.4910955120 5.373647e-02
## 1287 1.144319462 -1.775683354 -1.275722291 -0.1774893563 -3.651608e-01
## 1288 0.395193519 -0.703158815 -0.081343023 -0.1052187141 8.762940e-01
## 1289 0.852161635 -0.252439233 -1.499093464 2.4041371155 -6.904273e-01
## 1290 1.966471679 0.460735450 -1.375706921 1.1714621718 3.856722e-01
## 1291 1.014233725 -1.406378666 -1.153338248 -0.7332012020 6.981593e-02
## 1292 -0.039343150 -2.749651562 -0.636155322 -0.7832981276 7.959218e-02
## 1293 -0.985243554 -0.800192739 -1.819595329 -0.1286527237 -5.226694e-01
## 1294 0.781371858 -1.354584372 0.501570474 1.1951025551 4.108617e-01
## 1295 0.709811166 -1.740655349 -0.282237246 0.6298587276 3.388097e-01
## 1296 0.116455609 0.525472269 -1.284159647 1.1987675274 1.723292e-01
## 1297 -0.269790699 1.042273796 -0.019671813 0.1151397790 1.724212e+00
## 1298 -0.939855413 0.627819324 -1.223395509 -0.2516244997 1.641701e+00
## 1299 -1.101428439 0.372396952 0.185499669 -1.0875585993 1.177819e+00
## 1300 -0.219225782 0.097499674 -1.205852473 -0.0728974493 1.060694e+00
## 1301 -0.767741451 -1.089168118 -0.456049833 1.6409350055 -9.356230e-01
## 1302 1.757209738 -2.227292620 0.997982707 1.0728997555 2.246987e-01
## 1303 -1.391554368 2.314403233 -0.161961737 -1.5094014459 -9.897370e-01
## 1304 1.099418776 0.115538806 -1.775962851 0.2906463261 -9.154185e-01
## 1305 -0.180071843 -0.319869478 0.512481655 -0.0627589206 1.705491e+00
## 1306 -0.324295665 -0.499094486 -0.310940051 -0.5702905938 -4.977886e-01
## 1307 0.383688760 -0.073942223 -0.509254487 0.3483328667 1.872638e+00
## 1308 0.825587991 -0.418710106 -0.421547294 0.2489087457 8.563563e-01
## 1309 -0.301518631 0.445440145 -2.769597756 -0.5503038146 -4.103767e-01
## 1310 -1.063242403 -0.153561695 -0.346487587 0.1624617441 5.015988e-01
## 1311 -0.255418948 0.980079570 -1.358779587 2.0571954352 4.478430e-01
## 1312 0.546741462 -1.451304548 -0.607923313 0.1933918658 2.231648e+00
## 1313 -0.887042914 -0.888292677 -0.605097945 0.4680660027 -4.855749e-01
## 1314 -1.212923555 -0.620523301 -1.119812682 -0.2131036452 1.136667e+00
## 1315 1.001588434 0.579365631 -0.526235286 1.3773763215 2.252815e-01
## 1316 -0.464256199 -0.583537149 -1.062950840 0.3765952654 -1.286872e-01
## 1317 0.505618569 -0.057704998 -1.923441565 1.9942250009 -1.266113e+00
## 1318 0.814910913 -0.199397580 -1.946413577 0.7833061975 1.139618e+00
## 1319 -0.771472914 0.779698157 0.132609795 -0.2926938669 1.573458e+00
## 1320 1.058964355 1.289903994 -0.121180408 0.7930876747 -8.996800e-01
## 1321 0.059410463 -1.328617646 0.681633979 0.2732503649 4.817224e-01
## 1322 -0.961337972 0.369830863 -0.561986007 -0.7518507142 9.486626e-01
## 1323 0.656214244 -1.387914497 -1.442674170 -0.0716541063 -8.811789e-01
## 1324 0.611848639 -0.154792671 -0.270853950 0.9446747047 1.470034e+00
## 1325 0.395970630 0.472904828 -0.454754987 -2.8723128216 -7.091524e-01
## 1326 0.487840071 -0.027452093 -1.427179634 -0.5995432949 -1.711130e-01
## 1327 0.800839554 -1.424934804 -1.126655297 0.6781386262 -1.658206e+00
## 1328 -0.842877526 -1.361260569 -0.071850163 1.5375999885 1.888567e+00
## 1329 -1.568183288 -0.808672265 -0.575630129 -1.6507944222 1.672210e+00
## 1330 0.538101110 -0.299369946 -0.903971093 -1.2236869881 -8.021607e-02
## 1331 0.412106849 0.699519151 0.163804542 0.2641354096 -9.675002e-02
## 1332 1.412120977 0.082005996 -1.457778588 -1.1732373220 -3.312593e-01
## 1333 -0.224376840 -0.312585107 -1.901574374 -0.6879965309 1.037693e-01
## 1334 0.677258536 -0.104804048 -0.116384274 -0.0828323643 9.209229e-01
## 1335 2.057756307 -0.645480279 -0.347238934 -1.2652730215 1.225640e-01
## 1336 -1.370017389 -0.061961285 0.683705608 -0.8685434963 3.591816e-03
## 1337 -0.147115577 1.738598633 -0.577376324 0.3860243695 -1.836001e+00
## 1338 0.163249712 0.082466033 -1.158292213 -0.3476595035 1.212682e+00
## 1339 -0.084052893 -0.487539985 -0.908921862 0.4993641051 -8.790002e-01

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## 1340 0.910712953 -0.335651477 -0.512132902 1.1387459843 3.624159e-01
## 1341 -0.956104707 1.211780778 -1.250695275 0.7135955623 1.785545e-01
## 1342 -0.560503330 0.931458170 0.481105412 0.0187688443 -4.083938e-02
## 1343 -0.136763187 -0.134110629 -1.739833455 1.2906570872 -2.228156e-01
## 1344 1.035557682 -0.613426967 0.451899885 -0.1649478861 3.884452e-01
## 1345 0.310722191 -0.613330741 -0.943726707 0.2521350958 -2.657204e-01
## 1346 -1.068948476 -0.443125611 -0.061196486 -0.6878631656 7.534655e-01
## 1347 -0.534181516 0.396030521 -0.518757324 -1.6727500461 -3.635428e-01
## 1348 1.917461846 0.356015561 -2.482357273 -0.7554029741 8.986145e-01
## 1349 1.452468718 0.294907313 -0.025916900 1.8185698815 -3.956464e-01
## 1350 0.395423710 -0.105187493 -2.204111850 -0.2148064154 3.199576e-01
## 1351 -0.127859882 -1.134067761 -0.497829596 1.8438745773 1.478491e-01
## 1352 -1.354524635 0.604552467 -0.491794988 -1.1756633993 1.628492e+00
## 1353 -0.996498883 -1.824295525 -1.421323726 0.6844765195 4.638527e-01
## 1354 1.329416826 0.659591238 -0.997668696 0.3275377658 -9.190790e-01
## 1355 -1.082511029 0.961602547 -1.396455972 -0.1207859015 2.586939e-01
## 1356 0.319786450 -2.533826853 0.960438795 -2.0358514627 7.498460e-01
## 1357 -0.098444182 -1.269840911 0.468022707 0.0743316386 1.354258e-01
## 1358 1.347148763 0.695640663 0.268152631 0.8096818565 4.267200e-02
## 1359 -0.265406609 0.751193992 -1.342122391 0.3622642303 3.609017e-01
## 1360 0.600721395 -0.331315114 -2.055674046 -0.6776005491 3.978300e-01
## 1361 0.176882152 -0.461165867 1.681403178 0.9407117248 9.676466e-01
## 1362 -0.050806068 0.301100039 -0.237601528 1.7266042304 4.504201e-01
## 1363 0.269953038 -0.215391493 -0.304945431 1.6251828933 4.075013e-01
## 1364 -0.741479356 -1.281144235 0.256244490 -0.2688550713 5.128993e-01
## 1365 0.700114528 -0.075629328 -1.218034012 0.8183726244 5.914258e-01
## 1366 -1.040313178 -1.517730998 0.732461379 0.3585861503 1.547671e+00
## 1367 0.667666370 1.305218338 0.171281019 -1.2465833046 2.144706e+00
## 1368 -0.160207796 -1.396121306 0.050667994 0.6605377196 3.202272e-01
## 1369 -0.641097842 0.974399555 -0.815790644 0.9586123810 -1.863258e+00
## 1370 1.125998456 1.190687444 -0.762285030 0.2447919551 8.708482e-01
## 1371 0.109079545 0.433513024 -0.432353487 0.6954373883 6.291688e-01
## 1372 1.128380846 0.374210728 -0.820410028 -0.9114533244 -8.305397e-01
## 1373 0.156027930 -0.864300297 -0.453393397 0.3184537990 4.098788e-01
## 1374 0.901146768 0.341824443 -1.269506268 0.5210799081 3.932330e-01
## 1375 -1.077794774 0.030299438 -1.869215092 -1.3240452571 1.523659e+00
## 1376 -0.416087488 0.080672765 -0.124718693 2.6044662289 2.473661e+00
## 1377 0.081605963 1.450471377 0.027240642 0.1790254747 7.124546e-01
## 1378 0.456110693 -0.592234426 -0.989509708 0.8453742734 2.299766e+00
## 1379 -2.175117967 -0.080043031 -2.308518317 0.1072013418 1.416270e-01
## 1380 0.663869665 1.741053293 0.737545621 0.7115995905 1.732853e+00
## 1381 -0.084025969 -2.365132712 0.216680535 -0.9770714015 1.809204e-02
## 1382 0.524587013 -0.739254541 -0.825576685 -0.2441763498 1.569328e+00
## 1383 0.664184825 -0.229175495 -1.339246972 1.3148863386 2.286184e+00
## 1384 0.809398614 0.062729805 -0.521348158 2.2290512781 1.607882e+00
## 1385 -0.259006614 -0.984714199 -0.422756470 0.9892576414 1.221536e+00
## 1386 -0.005662823 -1.455228267 0.516815886 -0.0221348221 -2.186348e-01
## 1387 0.169635167 -2.554033986 -1.592143717 0.1981344363 -1.413911e+00
## 1388 0.050319832 -1.192884773 -1.213365622 0.4540894981 6.954896e-01
## 1389 -0.856163691 -0.248478121 -0.650896922 1.3635748975 1.025737e+00
## 1390 1.759445765 -1.096797228 -1.982209284 -0.6364552855 1.727911e-01
## 1391 -0.210932134 -0.292044349 1.451356296 0.4420362624 -5.978209e-01
## 1392 1.946027176 -0.775318082 -0.188689828 0.2616949800 6.417474e-01
## 1393 -0.522362436 0.559385498 -1.715674817 0.4112507542 7.130603e-01

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## 1394 -0.580715450 -0.248141818 -1.230850606 -0.1046536338 6.280729e-01
## 1395 1.186486567 0.860995619 -0.617458325 -0.7125675263 -3.467962e-02
## 1396 -1.988546509 0.133553926 -0.920416103 1.8021493019 -2.550382e-02
## 1397 -0.278391917 -0.485113086 -0.534934559 0.2142343859 1.474955e+00
## 1398 -1.241236658 -1.935870782 -1.010671665 0.2888923895 2.180589e-01
## 1399 0.992747347 -0.624632767 -0.020176742 0.5374775432 1.017156e+00
## 1400 -0.812882625 -0.069156857 1.180262379 0.8356398973 1.311755e+00
## 1401 0.989678266 1.064723219 -1.868565786 1.3528563606 1.030843e-01
## 1402 -1.041610221 0.537003860 0.731022421 0.8541163829 1.214437e+00
## 1403 0.165503371 0.688403867 -2.161585781 -0.3227779807 -2.488178e-02
## 1404 -0.111055810 -0.584555002 0.724750585 0.6658243334 -3.666433e-01
## 1405 0.347836648 -0.471206734 -0.267746524 -1.3992848526 1.276177e+00
## 1406 0.430137243 0.440013318 0.864220546 1.5153775289 1.246324e+00
## 1407 -0.549611017 -0.964811107 -0.762324325 0.3187981520 4.262489e-02
## 1408 0.917179057 -0.555189475 -0.195467586 -0.1197409944 8.693287e-01
## 1409 -1.521417292 0.350998564 -1.598414583 0.1265143645 -4.079546e-01
## 1410 0.293370067 1.573052383 0.935522746 1.3354450338 -3.507393e-01
## 1411 0.364967826 -0.268887754 -1.421656471 -0.4401988720 8.984101e-01
## 1412 0.532240638 -0.108099978 -0.695139334 -0.0376461778 4.781584e-01
## 1413 0.515714731 -1.850075759 -2.154709582 -0.3785614019 1.051316e-01
## 1414 0.610145242 -1.216510088 -1.021861177 0.0473686185 8.616031e-01
## 1415 -0.733349213 0.776778396 -0.084002965 0.4899860411 -1.959819e-01
## 1416 1.970202646 -0.571802687 -0.149104165 1.0752744155 2.203882e-01
## 1417 1.556077703 0.330670078 -1.231402496 0.2197564729 -4.888653e-01
## 1418 0.550531056 0.080273137 -0.229935530 0.3371800399 1.602571e+00
## 1419 0.432887888 0.291118532 -0.360327879 0.1076006538 -2.032211e-01
## 1420 -0.693241695 -2.333780015 -0.570734388 -0.7494599303 8.967339e-01
## 1421 0.550575300 -0.173190200 -0.855842621 0.6517028222 -1.033283e+00
## 1422 3.244724279 -0.857239560 -0.969063860 0.8767993291 1.030879e+00
## 1423 -0.383694134 -0.386500520 -0.572628736 1.0508444134 -5.136197e-01
## 1424 0.383665941 0.244302932 -0.730181628 -0.0419535674 5.717006e-01
## 1425 -0.723928039 -0.419473642 -0.447452667 1.5342892150 -2.685262e-01
## 1426 -1.697805473 0.791223357 -1.953923608 1.4965487739 -2.886579e-01
## 1427 -1.501609517 0.146682324 0.070676651 -1.9289865444 7.846243e-01
## 1428 -0.367548012 -0.737073961 -1.415044296 0.0234157197 -4.300926e-01
## 1429 0.164868061 -0.376752593 0.206654606 0.2081942165 -8.811989e-01
## 1430 -1.129861371 0.459758028 0.712576872 -0.7765504945 1.913534e+00
## 1431 0.075059893 1.856938024 -1.035852690 -1.4765248214 -3.221978e-02
## 1432 -0.399708201 -0.385421615 -0.363772329 0.8795642327 -2.124196e-01
## 1433 -1.509838953 -0.091837271 -0.595249753 1.2833241546 1.653634e+00
## 1434 0.001468960 0.087493725 -1.299523575 1.2718346516 9.371097e-01
## 1435 -1.089824201 -1.000461709 0.487629858 0.5496355808 5.260909e-01
## 1436 -0.540874624 -0.163167993 -0.834127610 1.5021863279 2.019316e-01
## 1437 -0.317533474 -2.284288569 -1.436596596 1.0355031061 4.034144e-01
## 1438 0.737018488 -0.634322842 -1.905225910 -0.2457181671 9.696569e-01
## 1439 1.262569826 -2.424906684 1.064655846 1.0159039283 4.073433e-01
## 1440 -0.242760428 1.206473706 -1.027486357 -0.1310566693 -1.341245e-01
## 1441 1.737583997 0.388445071 -1.101855573 -0.5283927612 1.163776e+00
## 1442 1.690838482 -1.113016399 0.013904825 1.9646646073 -5.256702e-01
## 1443 -1.223102973 0.295761532 0.339548240 3.5889472424 -8.168064e-01
## 1444 0.371252513 -0.942225047 0.461705686 1.0286087004 8.250786e-01
## 1445 -0.070072554 -3.146960755 -1.077852980 -1.0204539819 -1.169801e+00
## 1446 -1.761324451 0.628692941 -0.549922860 -1.5174809265 1.893421e+00
## 1447 -0.493317124 0.971110453 -1.171948102 -2.8907792131 2.664392e-01

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## 1448 1.176777894 -0.371478045 -1.782936605 -1.1788319870 -1.783193e+00
## 1449 0.326091190 -1.081409672 -1.401831272 -0.3763084354 1.901502e-01
## 1450 0.055146256 -1.345539159 -0.974396249 -0.2155281785 -3.172128e-01
## 1451 -2.113142574 0.977906581 -0.741285357 0.1244804333 1.841713e+00
## 1452 -0.170285554 1.396792938 -0.880184533 -0.7400504768 1.202233e+00
## 1453 0.844177069 -0.430782267 -1.354556884 1.0534748224 -6.764060e-01
## 1454 0.787434854 1.341643574 -0.797404889 -0.5925912738 -5.496202e-01
## 1455 -0.545913953 -0.653530028 0.176438240 -1.1394544165 5.756338e-01
## 1456 0.534042074 0.141023117 -1.491334908 -0.8835399606 3.420941e-01
## 1457 -0.508967015 1.445770959 -1.296797093 1.3005436196 1.186388e-02
## 1458 0.571040844 1.249267696 -0.877015458 0.3475766700 -4.114992e-01
## 1459 -0.925301570 -0.087711815 -2.535465140 -1.4986016627 -5.851263e-01
## 1460 0.697793119 0.381062016 0.384197259 0.6983303568 2.147673e-01
## 1461 -0.091780581 -1.083183404 -0.313563617 -2.8887527925 4.656127e-01
## 1462 -1.128370925 -1.027009845 -0.026779910 -0.7902927968 9.251656e-01
## 1463 -0.192079391 0.619247604 -0.037676001 -1.6245281377 1.801861e+00
## 1464 1.183148951 -0.024505492 -0.402798073 0.6994611518 1.913182e+00
## 1465 0.198903898 -0.341158097 0.013948376 -0.5146108106 4.212669e-01
## 1466 -1.246695383 -0.475381901 0.202933562 0.4035643319 1.677725e+00
## 1467 0.751998245 -1.319944641 0.260744885 0.0769391988 5.730326e-01
## 1468 -0.130037762 0.279354325 -0.918754846 0.8474038813 1.610496e+00
## 1469 1.699781842 -1.664202600 -1.243207126 -0.6773888799 -2.414187e-01
## 1470 -0.824591140 1.166561371 -0.097185725 1.5355617978 7.408994e-01
##
##          PC20          PC21          PC22          PC23          PC24
## 1      1.3655530733 0.0602678851 1.707564551 -0.2695242099 -7.487729e-01
## 2      -0.0068093106 0.5553118495 0.071869990 -1.3615631085 5.397135e-01
## 3      -0.2214510778 1.1441587954 1.350439588 0.0003144211 1.126038e-01
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## 6      0.3112479551 0.9542701390 0.340659812 0.1785837635 1.834423e-01
## 7      0.3586467483 1.9059545540 -0.145195909 -1.0935400187 1.651540e+00
## 8      -1.3687408099 0.9819126213 0.519382819 0.3423119501 5.816282e-01
## 9      -0.4387830163 2.0629581879 -0.579655819 -0.3499682926 -5.417066e-01
## 10     -0.4113320388 0.7536409630 1.489910488 0.1089038580 -1.791318e-01
## 11     -0.4888275883 1.2410425234 -0.274947888 -0.4065469313 1.905064e-01
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## 13     -0.2840657255 -0.8465538195 0.217652374 -0.5034428603 9.268744e-01
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## 15     -1.3045617637 1.7822632385 1.510717259 -0.4379873753 -9.814914e-01
## 16     -1.6492287653 0.1485902040 -0.866588953 1.2089946269 5.997723e-02
## 17     0.1591609966 1.2146552452 -0.255439713 -1.0245269536 -2.669848e-01
## 18     1.5040724154 2.7330119734 0.026092369 0.5520984448 -4.753391e-01
## 19     -0.4723244700 -0.5318833858 -0.967431113 -0.0093151479 1.194684e-01
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## 21     2.4042634421 1.7735998368 -0.489217737 0.9647769575 -4.936030e-01
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## 25     0.0730318162 0.3986728960 0.580111070 0.1776620622 6.335889e-01
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## 27     -1.4721323765 1.5877268228 0.732353260 -0.6669542062 7.962655e-01
## 28     -0.9081999546 0.0434869142 -1.249353212 0.2008028758 9.885285e-01
## 29     0.4750128359 -0.4699894304 -0.049068885 -0.2602173922 -7.582803e-01
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## 31	0.3153838521	0.1276227102	0.470545217	0.2904083210	-2.198249e-02
## 32	-1.7595896994	0.5754428979	-0.481176134	-0.2508120463	2.160456e-01
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## 36	0.6414317793	-0.0280387307	-0.029127732	0.5404416002	9.324703e-01
## 37	0.0328511183	0.2270898606	0.051449522	-1.0412572109	1.506517e+00
## 38	0.6477590891	1.5314136528	0.422774710	0.4623647426	9.260327e-01
## 39	-1.0744705073	-0.1341794652	0.318307564	-1.3865993894	-6.483450e-01
## 40	-0.7984742307	2.2082784218	-0.124277902	0.4183374048	2.380519e-01
## 41	1.2957983695	0.6757595718	0.069355555	0.3694671155	6.590585e-01
## 42	-2.6874082543	0.8575934304	-1.133919427	1.0295311639	-1.397229e-02
## 43	-2.0986169449	-0.5706232203	-0.672944701	0.4467025787	1.797997e-02
## 44	-0.6051813008	0.3551855532	-0.744695493	0.5451493783	-1.039805e+00
## 45	1.4146761096	-0.1448487534	0.133387239	0.6090512538	-3.989602e-01
## 46	0.3669543295	-1.5442473785	-0.398308809	3.0288826381	1.014305e+00
## 47	-0.2456517991	1.2885530693	-0.496793018	0.2362261192	8.880269e-01
## 48	0.0260112008	1.2828901449	0.637810596	-1.0265950300	6.562663e-01
## 49	-0.0941882244	0.6699332822	0.099092115	-1.7586666151	-6.996309e-01
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## 53	-0.5485629344	0.3077855895	-1.455198498	-0.6565778682	-2.726081e-02
## 54	-0.0115047467	2.1902310510	-1.258098648	-0.5471085121	-2.262747e-01
## 55	-0.6632903352	-0.6932444976	0.284777651	-0.5562893018	-1.289724e+00
## 56	1.7858649860	0.0724522685	0.276576017	-0.4022699186	-7.201001e-01
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## 62	-0.4336282332	0.9989195789	0.030911598	1.0137907010	1.046303e+00
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## 64	-0.7660400832	-0.1018424955	1.434323026	-1.8063125703	5.804625e-01
## 65	0.6316866279	-0.1076107618	0.117556728	1.5752192210	7.119148e-01
## 66	0.2673621835	0.7432809085	-1.417527169	0.3349842410	6.022854e-01
## 67	-1.0831309004	0.7382027153	-1.008375222	-0.6852972598	-2.135629e-01
## 68	-1.6444250463	0.3772568799	-1.464793608	-0.1496562160	9.305625e-01
## 69	0.9704367265	0.6099859939	-0.580529495	-0.5184393683	9.184622e-02
## 70	0.9338952220	1.2627399651	-1.011905193	0.3259047345	6.483650e-01
## 71	0.6558293537	-1.2364819168	0.937488008	-1.9247655392	1.235270e+00
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## 73	-0.7889607778	1.2034837664	-0.900656275	0.1089580445	3.574532e-01
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## 91	-0.0969280060	0.8836941987	-1.275169233	1.4578335795	3.122028e-01
## 92	0.5827914067	0.7615091400	-1.221966546	-0.9463696478	7.654105e-01
## 93	-0.3215481872	0.2988764393	-0.636155425	-0.8946767983	-7.201671e-01
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## 98	0.8742966764	2.0165333318	-0.257597865	-0.3386435318	-4.378325e-01
## 99	0.1017642055	0.3818286784	-1.632640627	-0.6958126546	1.881015e-01
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## 101	-2.3669126785	0.5932922733	-0.176276972	0.3123674303	-2.008393e-01
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## 198 0.1192897404 2.0887266848 0.351732128 -0.3447458203 4.972197e-01
## 199 -1.0648131046 1.1220054888 1.246542563 0.2628098052 -5.101662e-01
## 200 0.6060288827 1.4413637326 0.399642311 -0.3759798946 -6.487365e-01
## 201 1.6074993314 0.2013064137 -0.121520036 -0.2399904285 -2.162013e-01
## 202 0.2986653499 2.0451692534 -0.590889208 -0.9071667897 1.968492e-01
## 203 -0.9893569448 1.3129886973 -0.599620881 -0.1564043397 4.291020e-01
## 204 0.3675205443 0.0767364928 2.198760607 -1.2262429679 -4.147675e-01
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## 206 0.3715571624 -0.3321727691 0.139061831 2.0454549199 -1.203183e+00
## 207 -0.9904183769 1.6821146149 -0.384214747 -0.0456747096 -1.843375e-01
## 208 1.8036633738 1.2066279296 0.935121133 -0.8167755325 5.545733e-01
## 209 -0.6170601814 1.2639272063 0.601830942 0.2976165515 -1.368102e+00
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## 406 -0.5959039900 0.6349912529 0.806901061 0.9857866740 -8.987952e-01
## 407 -0.1241712145 0.8779589326 -0.746557823 -1.5488138881 3.769830e-01
## 408 1.0377577452 -0.4276090770 0.790371060 -0.6573096439 6.644543e-01

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## 409 -0.0401006676 -0.4337877759 -0.832284317 0.9585861394 6.150606e-01
## 410 0.7891511246 1.2391971950 0.530353411 -0.8837273015 6.368213e-01
## 411 0.1169506129 -1.0731543474 -0.757037494 0.1125194314 -5.664336e-01
## 412 0.0529605339 0.4206997105 0.165969808 0.0229436722 7.938169e-01
## 413 -0.4200813299 0.1233696520 -0.074531903 -0.5427102707 -1.145136e-01
## 414 0.1299514773 0.5798433550 -0.793014627 0.7491595030 1.628328e-01
## 415 0.0791448833 -0.4686000241 0.202717020 -0.1534206202 -1.521954e-01
## 416 0.4638610767 0.0497662152 -0.407996369 1.2385448888 9.301964e-01
## 417 -1.1390199469 0.5528459502 0.056075774 -0.2800243278 7.344248e-01
## 418 -0.7987574150 -0.5021961196 -1.582799040 1.0823549524 -1.720221e+00
## 419 0.2637806930 0.0761811979 -0.267060657 0.5236890985 -2.897530e-01
## 420 -0.0382163732 0.4833139473 0.356037807 0.1287789920 -6.020489e-01
## 421 0.0010646255 -0.5229257791 -1.961870150 0.4368197420 -1.263375e+00
## 422 0.0515118522 0.2756995145 -0.068517235 0.9917919305 -2.809088e-01
## 423 0.5180009354 -1.0078777756 0.105870138 1.2577744151 -3.240759e-01
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## 426 -1.3328577371 0.3692845033 -0.320851203 0.7630011504 1.956215e+00
## 427 1.3415952209 0.2650976856 -0.240392851 0.5347780655 4.705930e-01
## 428 -1.8790492715 0.5844835325 1.256227291 -0.8486745426 2.003244e+00
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## 435 -2.7610329284 0.1172967379 0.503850295 0.0872324178 -1.115042e+00
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## 440 -0.4424646084 1.3496746910 0.176742628 1.4613671463 -3.621728e-01
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## 447 0.8459091703 1.0239107611 2.142414144 -0.8210095067 -8.761841e-01
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## 459 -0.2338845055 1.0690242979 -1.819179073 -0.6737671638 1.824219e-01
## 460 1.7757006426 1.6183755882 -1.086417195 -1.6784638312 -7.143760e-01
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## 462 1.7158066449 -0.3728511447 -0.664186185 -0.0032577264 -5.238097e-02

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## 463 -0.3134756583 0.6234518586 0.635630225 0.7096516500 5.974889e-04
## 464 0.8474207394 0.3318853686 -0.857318468 0.1128007752 -5.288687e-01
## 465 1.1197532901 -1.3676302670 -0.089554456 0.5167012859 -4.028119e-01
## 466 1.7060535630 0.0111166776 0.479171538 -0.2415819778 3.271950e-01
## 467 -0.9910942120 -0.0245595588 0.418578653 1.0084610197 -4.932161e-01
## 468 0.4608474344 1.3361452570 -0.698737659 0.3256438200 1.631579e-01
## 469 0.2886956348 0.6500708621 0.327828213 -1.7424632903 9.755823e-01
## 470 -0.2426822644 0.3159889304 1.148669484 1.8498181491 -8.013801e-01
## 471 0.1016586537 1.0852404367 0.093879309 0.7120840171 2.344681e-01
## 472 -0.4971256551 -0.0627341584 -0.476103393 0.9538930918 1.480965e-01
## 473 0.4597539538 -0.0139411985 0.228789703 0.2190225429 -1.594125e-01
## 474 -2.2889927448 1.5270955142 -1.166858015 -0.5996650307 -1.341512e+00
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## 476 -1.2991193840 0.2197204609 0.293782150 -0.0304302948 -4.717185e-01
## 477 0.3712485559 -0.1141867623 -0.839214262 0.5461416190 -1.277705e-01
## 478 0.5691295869 0.3167587168 -1.084491653 0.8346951508 1.117872e+00
## 479 0.3704282204 -1.2002843759 0.123468115 -0.9947825301 -2.939476e-01
## 480 -1.1489429808 -0.2315369682 -0.059842317 1.0077860341 -4.000391e-01
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## 485 0.1765437999 -0.5234091723 1.099714172 0.8285028060 -4.381490e-01
## 486 0.2976011675 -0.1898732408 -1.291204768 0.0695706839 -3.218472e-01
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## 488 -0.3739086359 -0.9904739928 -1.250518227 0.8325437292 -8.015588e-02
## 489 0.1906578172 1.0171154030 0.048327234 1.0412515621 7.317764e-01
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## 508 0.3618929778 0.9094027810 -0.009709109 0.3900150326 1.690379e-01
## 509 -1.1830729770 -0.8716715524 0.126419955 -0.2994461530 7.496265e-01
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## 511 0.2077473450 0.6238293863 -0.457759817 0.4743042847 1.756458e+00
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## 515 -1.3663900640 1.3238732973 0.742879553 -0.3862050485 1.081256e+00
## 516 -0.4444279260 0.7158797003 -0.642964672 -0.0001810655 5.506915e-01

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## 520 -0.9130960766 -0.5562061616 -0.477157612 -0.5120656620 -7.491280e-01
## 521 -0.0203866155 -0.3513961296 0.633795328 -0.4655993256 1.317120e+00
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## 523 -0.4553806499 0.9608946748 1.286976338 0.1491969637 7.070945e-01
## 524 -0.2520372650 0.9005546568 1.575563003 -1.5039313632 9.853988e-01
## 525 -1.6270727075 -0.2115417654 -0.473368219 0.7178935470 3.843892e-01
## 526 -0.1425575910 -0.3818272173 2.628859728 1.0782138127 -8.416073e-01
## 527 1.1485306641 0.6573865321 0.047564089 0.3904815576 1.000926e+00
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## 540 -0.1350543113 -0.0144199221 0.759306982 -0.5164261135 7.979065e-01
## 541 -0.6455415621 -1.1867640620 1.711588245 -0.9825358472 -1.051617e+00
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## 543 0.3577592826 0.5943637379 0.080885792 0.0273386352 -3.269138e-01
## 544 0.1717021606 1.1907293263 -0.156291431 -1.8608422740 5.757347e-01
## 545 2.1647161924 0.1275723005 1.312803588 0.2776689313 -1.861835e-01
## 546 0.3063642061 -0.7530322122 0.927630581 0.8529085756 -1.004964e+00
## 547 -1.6347753172 1.1522423116 0.370684671 0.1883811361 2.670169e-01
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## 549 -1.2113313518 0.7796493496 0.572498813 -0.0682509877 5.196372e-01
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## 557 0.1353126203 0.7557487230 0.712126630 -0.0494942258 1.488733e+00
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## 559 0.1281843733 -0.4160771354 -0.166424498 0.2856230617 -4.768599e-01
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## 566 1.2065200948 -0.5317387250 0.426612952 -0.1154242542 -3.418308e-01
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## 571 0.0832462608 1.8907291824 -0.421264904 -0.5885850279 1.533250e+00
## 572 1.0680734461 -0.1639633799 0.271304516 -0.0782813161 1.491836e-01
## 573 0.4836568878 0.3152602718 0.391960851 -0.0422550049 -8.315154e-01
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## 593 2.0003893286 0.0582360844 -0.502477390 -0.0319998867 -1.935146e-01
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## 595 -1.2724322592 -0.1175448432 0.807681927 -0.2453560346 -5.937983e-01
## 596 -1.2116763480 -0.2793417196 1.324870858 0.8531739764 4.540515e-01
## 597 -0.5551894495 -0.8275366003 -0.169694042 0.7523093819 7.202032e-01
## 598 -0.3789334646 -0.5877912053 1.914827017 -0.8360131901 -7.150574e-01
## 599 -0.5614335974 -0.8537587163 0.694420752 1.5990103678 -5.478962e-01
## 600 -2.1338622918 -0.2306449348 0.372253105 -0.7348578525 -3.146864e-02
## 601 -0.1860422747 -0.6904394473 0.162442465 0.2783878519 -2.429074e-01
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## 612 -0.3447083015 0.0308557034 -0.043735217 0.1341583180 -7.364396e-01
## 613 0.2822070980 0.5969265088 -0.636307566 -0.0981957963 2.593285e-01
## 614 0.7629212263 -0.0689350970 -0.305870454 0.4911211176 3.393659e-01
## 615 0.7935713604 0.4590020974 0.345335973 -0.0503817888 -6.329861e-01
## 616 0.8597005339 1.7861828381 0.102758297 0.8592636425 -2.412352e-01
## 617 -0.1552758056 -0.5115002828 -0.832091026 -0.1780145175 -4.413468e-01
## 618 0.3995880619 -0.2736485723 1.038570538 -0.1716710202 -2.975937e-01
## 619 1.2575369874 -0.3342420216 1.309311367 -0.9883845118 -1.002910e+00
## 620 -0.6506788037 0.8226776541 -0.230568366 -0.8489226846 -6.780720e-01
## 621 -0.7217383803 -0.9485677553 -0.505676066 -1.1153674948 6.619730e-01
## 622 0.3156973453 -1.3320436552 0.350361938 -1.2800111952 -5.674376e-01
## 623 0.5827265420 0.4091891430 -0.233987145 0.2716786171 -4.300332e-01
## 624 -0.0305730479 0.0902447389 1.371691569 -0.6276539806 -1.357199e+00

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## 625 1.1724293280 -1.2907376306 0.636791259 -1.6885749801 -1.867697e-03
## 626 -0.7506533992 0.6113634063 -0.774783738 -0.8431751571 -1.068142e-01
## 627 1.6706175838 -0.0754819646 0.952147044 0.5417892092 -5.761691e-01
## 628 0.5890002078 0.4326661646 -0.895967539 0.2228684863 2.529876e-02
## 629 -0.2113597256 -0.4597235612 -0.659799431 0.4833608987 -9.147977e-02
## 630 -0.9471218005 -0.9520874923 -0.059511599 0.0113539577 -4.659298e-01
## 631 -0.5810296797 -0.6547782185 0.906249391 0.6898890837 -1.107977e+00
## 632 -0.0401388038 -0.1818314038 -0.380536037 -0.7295366422 4.913826e-01
## 633 0.4625793997 -1.0935124661 1.146859917 -1.6627186905 8.098741e-01
## 634 -1.7566186981 -0.5127194102 -1.325782735 -0.9774770041 4.066204e-01
## 635 1.4615839373 0.4425952937 -0.620843916 -0.8789180533 -7.169603e-01
## 636 -0.2957839997 -0.1715368454 -0.217885710 -0.6630027619 -1.353455e+00
## 637 0.3887482868 2.5642287471 0.479947729 0.7258725999 7.666368e-01
## 638 0.9476585772 1.7649997607 -0.218747846 0.6303164135 4.305928e-01
## 639 -0.0959697468 0.3201126031 -0.342907195 -0.7073829922 -5.941051e-02
## 640 0.0088947926 -0.4589077073 -1.099347618 -0.7556858517 1.451518e+00
## 641 0.2345618525 -1.0348556037 -0.308915727 -0.1482862654 2.384866e-01
## 642 -0.1186332599 0.0583722818 0.194759122 0.0353840885 4.260513e-01
## 643 0.1981440408 -0.2735269829 -0.978269785 -0.5351594272 8.227650e-01
## 644 0.7826020783 -0.0969648466 -0.238266162 -0.0052548494 3.620612e-01
## 645 -1.4899186701 0.0760366201 0.105475635 -0.6413383049 -4.360215e-01
## 646 0.5025771300 -1.1035982412 0.754875997 0.4133107972 -8.273438e-01
## 647 0.2194672005 -0.6041114521 0.228153422 -0.0677455524 7.935813e-01
## 648 0.3261716442 0.8999588632 -0.125113141 -0.4547878009 -7.455613e-01
## 649 0.3258028517 -0.0869575505 1.372095370 -0.5101317298 2.709126e-01
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## 654 0.0116029344 0.9311375708 -0.976407514 1.1374365375 1.775923e+00
## 655 -0.8130313137 -1.2897088490 1.284407000 0.1926252619 -7.294978e-01
## 656 -2.3336324320 0.2906914178 0.681676865 -0.9436842766 -1.930032e-01
## 657 0.3530602854 0.1299033484 -0.512162961 0.5859710417 -2.580119e-01
## 658 0.4320004928 -1.2827038469 1.830932722 -0.3046744015 -6.798316e-01
## 659 -0.3193468990 -0.8374792937 -0.324759587 -1.5165138908 2.051118e+00
## 660 0.4878646972 -0.3214808944 -0.800311132 0.1787909952 -4.672843e-01
## 661 0.1977219396 -0.1051715336 2.651918214 -0.5548816203 9.463920e-01
## 662 0.1284688862 -0.7613063472 -0.189287243 -0.0858634973 6.426525e-01
## 663 0.4194416862 -1.1532494985 -0.549209432 1.5766175299 -5.726198e-01
## 664 0.3625444448 0.4607757052 1.058158642 1.7998086090 9.728269e-02
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## 666 -0.7330311562 0.3995396076 -0.693530405 -1.0593292874 1.120724e+00
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## 669 0.5914087567 -0.3625505722 0.649853257 0.4199145868 -7.050250e-02
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## 674 0.0984798726 0.1502022785 -1.500891544 -1.4886306524 -1.543041e-01
## 675 0.1648674883 -0.6445841898 -1.926305645 -0.9106129459 1.006445e+00
## 676 -0.8066752855 -0.4403260305 0.433373663 -0.6684241027 6.018897e-01
## 677 0.2026685788 -0.8358893823 0.070331366 -0.3851597514 -7.360217e-01
## 678 1.4185644871 -0.9788176646 0.045541745 -1.2570748431 -2.741625e-01

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## 679 -0.7899349638 0.6590236092 0.056914775 -0.4998148358 1.213768e+00
## 680 0.3548852456 -0.0189090330 -0.546350871 0.4774283022 -3.022556e-01
## 681 0.4813825649 0.3216928914 -0.021152214 -0.2707613694 -9.541964e-02
## 682 0.2098570360 0.0767535156 -0.882781596 0.4718808002 -4.884258e-01
## 683 -0.1056939298 0.4682507324 0.277505135 -0.0634532923 -3.519872e-01
## 684 -1.4919473185 -0.4963139558 -0.200919974 0.3668330246 5.092067e-02
## 685 -0.0745873976 -0.2166723015 -1.960803283 -0.2052953380 2.346835e-01
## 686 -0.8665704516 0.0886793869 -1.256592122 -0.8598367569 -8.746781e-01
## 687 -0.0802037975 0.8417832896 0.278866181 -2.4858197805 -1.117704e+00
## 688 -0.8040535007 0.2355278663 1.017928509 -0.4200491711 -6.679647e-01
## 689 -1.0954895111 0.9349407273 -0.156620364 0.2608832194 -3.382577e-01
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## 695 -0.6614189214 -0.2463167218 -0.696328514 0.3434907866 2.566261e-01
## 696 -0.2676599897 -1.2359780369 0.326712758 1.6689024049 7.221288e-01
## 697 -0.3858523223 1.7744171261 0.142108437 -1.2282973069 -3.978712e-02
## 698 0.6403355375 0.6293100854 -0.010756174 0.3027584983 6.095590e-02
## 699 0.1045687385 0.4405565389 -0.342460891 0.4370486018 6.590593e-01
## 700 0.0862235342 0.1827386603 0.490799182 0.8440901139 8.452595e-01
## 701 0.6221116826 0.9503351879 1.082034555 0.1780064316 1.746352e+00
## 702 -1.0658293976 -1.1080853473 1.994918032 1.0518588496 2.088734e+00
## 703 1.0290664411 0.3533564378 1.547233010 0.3594738919 9.078561e-03
## 704 3.5410921769 1.1034801374 -0.842466122 -0.6349714742 1.030487e-01
## 705 -0.1864448057 0.2855707620 1.038274030 0.3077848294 -1.617214e+00
## 706 -1.1594053087 -0.4142818558 -1.248817298 0.1794759668 -4.534369e-01
## 707 0.1564481452 1.1588810062 -0.470645710 1.3434421316 -3.005909e-01
## 708 -0.9812293129 0.8446633279 -0.147151244 -1.1972619600 2.879790e-01
## 709 1.2817916556 -0.8879923196 -0.383849337 -0.2940044331 -1.058030e+00
## 710 0.7099985361 1.4501397973 -0.822577456 -0.5216548787 5.503010e-01
## 711 -0.5582423886 0.7444273993 -0.708572906 1.7494581884 -1.037790e-01
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## 713 0.3212357568 0.2903464707 1.714329315 -0.7342932915 2.224607e-01
## 714 1.0123828903 -0.8344637499 -0.180649724 0.8456062681 6.075538e-01
## 715 1.1623565570 -0.6329834716 1.043862304 0.6786238816 -5.262850e-01
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## 717 0.2486493458 0.3136364369 -0.515040695 -0.2391421368 -1.903309e+00
## 718 0.0233469571 -0.7966378234 0.775618568 0.1508770793 -8.811733e-01
## 719 -0.2585101223 1.8949728206 -0.187348523 -2.0620405322 -1.246247e-01
## 720 0.9864584238 -0.4078333324 -0.147357268 -0.8353936032 7.927259e-01
## 721 0.0511414690 0.1036172447 0.972788063 -0.2284656136 -2.099992e-01
## 722 -0.6013536097 0.5838199464 -0.024186654 -0.5513397615 -5.920582e-01
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## 724 0.4713512675 0.3024885885 1.174739230 -0.3965508895 -8.155971e-01
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## 726 0.0171371914 -0.4717868212 -1.755427076 0.5418949316 -1.646370e-01
## 727 0.8759581328 0.1875771291 -0.426078180 0.1915843706 1.262340e-01
## 728 1.3238810352 0.1691274375 0.056998134 0.3866574577 -4.039370e-01
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## 732 -0.5013832373 0.7966277916 -0.874468393 0.6869703670 -3.236729e-01

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## 733 0.8963736802 1.0291462458 -0.243182069 1.1074133646 4.038441e-01
## 734 -0.0747908349 0.0816071654 0.565050612 0.7453559086 -3.443964e-01
## 735 0.2485485120 0.7219013571 -0.219143988 -0.9256491902 -2.132689e-01
## 736 1.0083911524 -1.2893550394 -0.756552853 -0.6685503202 1.238961e+00
## 737 -1.6244966670 -0.5827777599 0.897006911 -0.6913058722 -6.493384e-01
## 738 -0.0568921173 0.6245539039 1.743258639 -0.1157069025 2.500761e-01
## 739 0.7177008300 -0.3275767152 1.007018284 1.4274684724 1.031529e+00
## 740 -0.3025168003 -0.8038381099 -0.907296074 1.0188503067 2.175888e-01
## 741 0.4440404703 0.3598929008 -0.118685450 0.0993895657 3.712460e-01
## 742 0.6302224016 1.5309177665 0.749218517 1.1778058163 -5.453046e-01
## 743 -0.8265513846 0.0535542584 1.045206846 -1.0269973014 1.171333e+00
## 744 0.0405845511 0.7893092479 0.006269363 -0.8275506518 1.216341e+00
## 745 0.3470849784 -0.7974643732 -0.169736409 0.2113751482 2.098704e-01
## 746 0.4926765971 0.8154893973 -0.097269901 -1.1042852015 9.124257e-01
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## 749 -0.4332085751 0.8978457456 1.629124800 -0.0759079014 -1.224999e+00
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## 753 -1.5104839307 -0.5782488016 1.258936304 1.5420803383 1.612919e+00
## 754 0.3170884941 1.3213891673 -1.121410270 -0.7729947127 -5.319850e-01
## 755 1.4925640753 -0.8154869516 -0.217571648 -0.2373177152 8.654811e-01
## 756 -0.4627001479 1.0166372183 0.817098386 1.3960803252 2.470044e-01
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## 760 -1.1339295042 0.8003191377 -0.534839145 -1.4032001047 7.780206e-01
## 761 0.8675449492 0.4444027949 -0.135492743 -1.1600264601 1.100996e+00
## 762 0.8553692229 0.0710231803 1.176642730 1.0277091389 -3.338965e-01
## 763 -0.3696858382 0.4296975263 0.826997411 -0.3579199450 -7.095732e-01
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## 765 -0.8530002963 0.5910824945 0.456780139 -0.1633309585 4.562508e-01
## 766 0.1282740149 0.5699673762 -0.192373998 -0.2104990234 7.872376e-01
## 767 -0.1026781277 -0.8248037504 -1.925101936 0.5915461257 5.371471e-01
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## 772 -1.1381475473 -0.2145216693 0.708252251 0.3504950614 1.589196e+00
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## 783 0.1726286815 -0.0078229456 -2.029014659 0.4704016599 -2.528855e-01
## 784 1.6172912079 -0.7706883111 0.171040485 -0.8626422468 2.602796e-01
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## 786 -1.0392288017 -1.4961460428 0.574981472 1.2255815931 6.485981e-01

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## 787 -1.0551919986 -0.2292571201 -1.619838911 0.3931416713 -5.147634e-01
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## 790 -0.3538387784 -1.6066446250 1.257377818 0.5224547750 -5.655104e-01
## 791 -0.8401305181 -0.8174947333 -0.019988983 0.8786584059 -5.315899e-01
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## 801 -0.4664395129 0.0464875593 -0.670066917 1.0259624058 4.245142e-01
## 802 0.1215470337 0.7546272941 -0.218718773 0.5933441583 8.040900e-01
## 803 -0.9031538472 0.4254551603 -0.916865990 0.5731235042 3.594593e-01
## 804 -0.0713295903 -0.6165452997 -0.582128937 0.3544245422 9.412358e-02
## 805 0.6474244143 0.3060715713 -1.314952822 0.9573006029 2.475523e-01
## 806 0.0273368155 -0.8288530489 -0.719360237 -0.7234167164 1.783083e-01
## 807 -1.2079384912 -0.3454232146 0.592944222 0.0414955282 3.995503e-01
## 808 -0.3830912930 0.3193042433 -1.303355493 -0.5716155963 -3.641764e-01
## 809 -0.3308500441 -0.5149859348 0.629086068 0.0407224224 -7.444946e-01
## 810 0.7818536954 0.5567279298 -1.030971278 1.3125997378 -1.007676e+00
## 811 0.5748520066 -1.1035844481 0.586153695 -0.1128664166 -2.863383e-01
## 812 0.1995257650 -0.1494044886 0.789316512 -0.1244262463 -2.753122e-01
## 813 -0.3055966017 0.2381279121 0.563644794 -0.2956440549 -6.786153e-01
## 814 0.5867558528 -0.3327367121 2.463918348 2.8114999644 1.251721e-02
## 815 -1.4028585674 -0.1605849098 -0.924551677 0.2345978795 -5.699605e-01
## 816 -0.0654045825 -0.1862748693 0.050822532 -0.7085495205 -2.473735e-01
## 817 0.8081226850 1.0108447181 1.182945920 -0.6455682570 -1.118149e+00
## 818 1.2842439865 0.5786201694 -0.259252996 -0.9614345133 -1.067144e+00
## 819 -0.5525921915 1.5315627973 0.753406774 0.2510577697 6.595195e-01
## 820 -0.5359571844 -0.9442826722 -0.814918371 -1.3292914733 1.044807e-01
## 821 -0.3840747565 -0.2876918122 0.045723300 0.5145894283 2.788684e-01
## 822 0.8024760835 0.5822830922 -0.260340409 -0.2765501942 -4.101110e-01
## 823 0.2836592239 0.2728558289 0.029932629 0.3561869407 -1.214493e-01
## 824 0.5199420550 0.0005595294 -0.983398176 0.7619767478 1.278781e-01
## 825 0.2788908947 0.3663459214 0.314133017 -1.3273424031 4.359369e-01
## 826 1.2237500259 -1.1081862232 -0.207337253 -1.0535967824 -5.771425e-01
## 827 -1.0000014387 -0.4987893599 0.705226561 0.7629354058 1.437611e+00
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## 839 -0.6436195314 1.4728028497 0.093711384 0.6416269579 8.510758e-01
## 840 -1.1908833120 -0.6019792507 0.549982757 -0.9941458680 -2.766514e-01

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## 841 -0.4314635929 -0.7006354562 0.306014670 -0.3706135737 -4.967468e-01
## 842 -0.2978428348 -0.4669370904 1.247197434 0.0743324792 -1.331212e+00
## 843 -0.6989462356 -0.8278085678 0.795516313 1.1411117647 8.448125e-02
## 844 -0.0099629230 -1.0001767992 -0.347331723 0.4290810111 -1.001518e+00
## 845 -0.5065394410 0.5885796941 -0.240747029 -0.1067976340 -1.766574e-01
## 846 1.7964196036 -0.2376352378 -0.428343749 -0.9238054640 7.738736e-02
## 847 -1.6366524983 -0.6292680644 -0.357393748 0.4155200654 4.403405e-01
## 848 0.0472070134 0.2821589529 -1.061861198 -0.1612309213 -3.666059e-01
## 849 0.1956838765 -0.2567189372 -0.691658399 0.2854901501 5.937548e-01
## 850 -0.0950588254 -1.5815589206 1.072193517 -0.0593471036 -6.827198e-02
## 851 0.6222121854 0.7483254584 -0.120102431 0.2369291175 7.862048e-01
## 852 1.4258827416 -0.0461898914 -1.907698722 1.6444684102 6.983597e-01
## 853 -0.3204041756 -0.7214256681 1.156354176 -0.6430785986 -6.035341e-01
## 854 -1.3263651586 0.4006908459 -0.156340116 0.1177544871 -3.528900e-01
## 855 0.7065157688 -1.5255343057 -0.542954811 -1.3484490194 3.954536e-01
## 856 0.0756261340 -0.6973999114 -0.051557110 0.0978536289 -2.941772e-01
## 857 0.0164857162 -0.3830066079 -0.663786868 -0.2159120816 -5.028412e-01
## 858 -1.4698576265 0.6380589067 0.242091910 -0.0036181499 6.060276e-01
## 859 -0.6351772585 0.6940163132 0.423814313 0.9063011779 2.122293e-01
## 860 0.2550743463 -1.0665830297 -0.276260097 -1.6872125142 1.074331e-01
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## 874 -1.6997840340 -0.5928017818 -0.565397084 -0.6798737147 -2.049100e-01
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## 895 0.1508634376 0.6620580359 0.227200972 -0.2785364830 -4.013481e-01
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## 897 -0.3795154074 -0.2029154005 -0.996430141 -0.5075747406 -9.064525e-01
## 898 0.6827440454 -1.4290124059 0.492203178 -1.0047756350 1.057977e+00
## 899 -0.1727622093 -0.5061968435 -0.861607185 0.2774061037 -1.276719e+00
## 900 0.2509764551 -0.8826297242 -1.337347750 0.4995259441 4.994975e-01
## 901 1.5196345187 -0.0731387061 -0.842542131 -1.1044557068 -4.237911e-01
## 902 0.9840445164 0.2879648540 0.771010131 -0.4099868219 9.093824e-01
## 903 -0.3537542716 -0.8013611631 0.211568788 -0.1052840062 4.602947e-02
## 904 -0.6568957963 0.1630686086 -0.410957141 0.6575372019 -6.541981e-02
## 905 -0.4110522548 0.2053085572 0.273776557 0.8783761302 -2.466333e-01
## 906 0.9722736240 -0.0084903027 -0.359343929 1.6678821071 -1.798539e+00
## 907 0.6839420418 -0.2646812393 -0.785974774 0.6990075766 5.595108e-01
## 908 -0.8155724060 0.1200888132 0.909074849 0.1493338329 -1.696156e+00
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## 910 0.4876932775 -0.6478001245 -0.154900899 0.0488453192 -7.116568e-01
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## 913 0.3128558187 -0.1742961522 0.346963627 -0.7132918476 -2.084287e-01
## 914 -0.5568455769 -0.2874490930 -1.067208074 -0.1398887807 -1.289302e+00
## 915 0.8623198421 0.4512496609 0.055881255 -0.0315420367 2.672531e+00
## 916 0.9791038762 -1.0977829589 -0.235955117 1.3244092710 -3.130702e-01
## 917 0.6357382188 -0.0017103950 -1.075622857 0.5362424041 -6.233891e-01
## 918 0.9125073935 0.4677210407 -1.375870725 -0.5076057281 5.622756e-02
## 919 0.1171602077 2.4908674143 0.744425061 0.1438934959 -1.014558e-01
## 920 -1.1573391631 -0.1830371908 1.125205930 -0.1153144082 7.163303e-01
## 921 0.6480736558 -0.3514063707 0.712364080 -0.0339261679 -3.875925e-01
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## 926 1.1459110713 -0.3521388912 -0.189272613 -0.7245202211 2.083922e-01
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## 931 0.2952862796 0.4634027295 0.321371672 -0.8417954866 2.393913e+00
## 932 1.3673097306 0.3753558666 1.244890797 -1.0526782892 -1.508129e+00
## 933 0.6629323025 -0.8461868335 0.850747569 0.7935200950 2.085899e-01
## 934 1.2871073424 0.5046746522 -0.818389752 -0.1399000515 -3.281340e-03
## 935 0.8007763377 -0.6961969332 -0.870627608 0.7168172085 3.701339e-02
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## 941 -0.1515132914 1.1253486684 -0.236139724 0.1843211235 7.944591e-01
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## 944 -1.4605977206 -0.9335773729 1.648732607 -0.7940644067 8.630095e-01
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## 947 -1.0400157259 0.5520122424 -0.717281718 0.4083650889 5.593488e-05
## 948 -0.9342817282 -1.0687762775 1.867993358 -0.3479765359 2.354585e-01

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## 949 0.4655456105 -0.6523638363 -2.387889212 0.2934515328 -1.552830e+00
## 950 -1.4434105545 0.7792986017 0.899227398 -1.5261533065 1.375250e-01
## 951 0.3289173521 2.3921455099 -0.083378683 0.8008844144 -5.252678e-04
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## 953 -1.0299165988 1.0663497481 0.392908279 0.6094227539 7.929774e-01
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## 968 -0.0282231077 0.0083057134 -0.184175084 -0.1875676354 1.759039e-01
## 969 1.4367300010 -0.4043615400 -0.104645204 -0.2104514897 3.489683e-02
## 970 -0.6132705868 -0.6014833290 -0.004356040 -0.2911931605 -1.140975e-01
## 971 0.6310730355 -0.0458312986 2.164627213 0.6934920004 -6.526774e-01
## 972 1.2471215886 -0.7329828674 -1.454804449 -0.1843957348 4.598378e-01
## 973 -0.1352608339 0.9347134503 0.305513765 1.4770044246 -5.284714e-01
## 974 1.1030823816 -1.1133917692 -1.077099970 0.6888939861 2.824671e-01
## 975 -0.3976133734 -0.4567357381 0.624531331 -0.2790367994 -3.406396e-01
## 976 0.9458674171 0.1868259313 0.887119250 -0.0323998079 -4.346908e-01
## 977 -1.4709092869 -0.1376146038 1.087227426 -0.7896433566 1.724837e+00
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## 980 0.8467045938 -0.1438322632 1.131984417 -0.1145630700 9.033917e-02
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## 982 0.7332547022 -0.0258941163 -1.141399651 1.5567309401 5.902089e-01
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## 984 2.0738993422 -1.1406097364 -0.188886612 0.7356084115 -6.927417e-01
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## 986 0.3617839820 0.2160837620 -0.114720867 1.7168258269 -2.002887e-01
## 987 -2.0564192783 -1.8952039178 -0.309303010 -1.1665404247 -6.519151e-02
## 988 -0.2448290977 1.1298111540 -0.231112948 -0.4055346213 1.261118e+00
## 989 -0.1015327985 1.3916882557 0.729368979 -0.2746821938 4.468537e-01
## 990 -0.9148855938 -1.5228339577 1.817440243 -1.5959476556 -1.403168e-01
## 991 -0.2437172410 -0.3697401345 1.985167878 -0.4325752871 -2.877750e-01
## 992 0.1417562837 0.4037411147 -0.237243498 -0.8806378855 2.727410e-01
## 993 -0.6221839264 1.0678228864 0.373380958 0.2137599925 -4.595693e-01
## 994 -0.2505663391 -0.2208298165 0.826420980 0.0314856191 -1.907074e-01
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## 996 1.1304769823 -0.6385207222 -1.006702098 -2.3856219145 -2.253634e-01
## 997 1.3026102975 -0.1831226420 -0.268701505 0.3818632357 -1.945525e-01
## 998 -0.4136428482 -0.6415008552 0.283844356 1.3108198728 3.572584e-01
## 999 0.6729776206 -2.2038903350 -0.192599279 -0.4849076280 3.582691e-01
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## 1001 1.67111098337 -0.6668101333 0.233650932 -1.3089483895 -9.447434e-02
## 1002 -0.4915688327 -0.0039408537 0.784386757 -0.6180938732 3.428535e-02

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## 1003	0.6519704543	0.2380262063	0.382380133	0.4338825945	4.262579e-02
## 1004	1.8646685263	-1.1476743722	0.022967761	0.1124260816	-7.432510e-01
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## 1006	0.1724051260	0.4654043136	-1.222393863	-1.1406190346	-1.628457e+00
## 1007	-1.6015728522	0.1997986966	0.472379242	-0.6983358833	1.181742e+00
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## 1009	0.9881996815	-1.1262484051	1.146221368	1.3771370666	1.139590e+00
## 1010	0.0600233810	0.1467802293	-1.477992420	-0.2024206849	-1.538926e-01
## 1011	-0.1314578632	-0.4820849337	-0.472406067	0.9737361271	5.957389e-01
## 1012	-0.0385162639	-1.2284694960	-1.305912002	-0.6303070558	-4.713550e-01
## 1013	-0.5768466481	-0.4771835910	-0.663234050	0.7776304571	5.515700e-01
## 1014	-0.4698150115	0.1790712256	0.319656371	0.5238494656	-8.940838e-01
## 1015	0.1605721660	0.1818213871	-1.353784334	1.4225579736	-9.533788e-01
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## 1018	-1.5928762339	-0.0021041937	0.188010159	-0.5247310785	5.996881e-01
## 1019	0.1481910388	-1.5774550041	-1.042507129	-0.6167862804	-5.685052e-01
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## 1022	-0.7267628304	-0.2461270733	0.624983228	0.0980763013	1.743190e-01
## 1023	2.0188257536	0.7656261296	-0.575065946	-0.2600840586	4.673676e-01
## 1024	-0.6224799281	-1.4142124996	-0.056903458	-0.8732092975	2.300848e+00
## 1025	1.0611131646	-1.2042423123	-0.234367239	0.3422585793	-4.887550e-01
## 1026	-0.2900183703	-1.0385502455	0.002973543	-0.0307241653	-5.657595e-01
## 1027	0.3918926936	-0.1269021154	-0.391813598	1.0433256407	-1.158006e+00
## 1028	0.7986354878	0.4354044393	0.431975573	-0.1635045522	-3.574180e-01
## 1029	-0.3468437215	1.2506018701	-0.436821502	-1.1231988382	1.943395e-01
## 1030	0.9871036011	0.1107931063	-0.290200753	-0.1628875414	-5.766960e-01
## 1031	-0.5183305165	0.1163367500	1.383892410	0.3314841181	3.333581e-01
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## 1046	-0.2378624200	-0.5767722603	0.155032871	-0.0810998800	1.033598e+00
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## 1058 2.1700237681 0.6882669368 0.369062041 0.6712559457 -7.997464e-01
## 1059 -1.1275845742 -1.4404867618 -0.217859371 0.1233595192 8.788065e-01
## 1060 -0.1135963184 0.6270137627 0.973939641 -0.2559356761 1.015687e+00
## 1061 0.8395163968 0.5206321579 -0.790013995 0.4323012101 -5.187622e-01
## 1062 0.6408705559 0.8522215676 -0.155453072 0.5961701480 2.415019e-01
## 1063 1.3318089598 -0.1893530928 0.372791265 -1.1456131132 1.361339e-01
## 1064 -1.6212549947 -1.0353574777 -0.521173382 0.1039281166 -8.084117e-01
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## 1066 -1.7773349032 0.0022401534 -1.157971850 -0.8322388572 1.588015e+00
## 1067 -0.3271211085 -1.5490806421 0.470277309 -0.5920504024 -1.023254e+00
## 1068 0.9946584071 -0.1698207355 -0.103641910 -0.9955668474 3.886089e-01
## 1069 0.5410958952 -0.1636702203 0.903564928 0.4539806943 -4.694079e-01
## 1070 -0.3751110717 -2.2392367840 -1.487592928 0.0093831857 1.778692e-01
## 1071 -1.0530706074 0.7731452062 -0.762165706 0.0827605305 -1.508380e-01
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## 1076 -0.3071732059 0.3717641034 0.133467652 0.9462988651 -6.057764e-01
## 1077 1.1579644530 -0.1172626054 -0.512832578 0.0304542089 -6.536532e-01
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## 1111 0.1881025969 -1.1061822577 -0.950534076 0.5512845680 5.361015e-01
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## 1165 1.1635113997 -0.9590410181 0.589525834 -0.1599480590 -4.015500e-01
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## 1195 -0.6508952165 -1.1755505226 -0.451515243 1.3711271780 -8.834215e-02
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## 1197 -0.8296016576 -0.3617668179 0.112199040 -0.7530007908 2.307905e-01
## 1198 -1.1834213761 0.4077928240 0.445125609 -0.5195313779 -1.811158e-01
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## 1201 0.5499543826 -0.1838362815 0.918035945 -0.4013131029 7.969783e-01
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## 1203 0.0805712947 -1.3583722253 1.201538247 0.4579434724 -1.136512e-01
## 1204 -0.6474634370 -0.7133117561 -0.050903017 0.1898978657 9.583797e-01
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## 1207 0.4673135463 0.7517777005 0.845380550 0.6377264298 -3.339722e-01
## 1208 0.3332890104 -2.7001715465 -0.576672107 -1.6836654981 1.371550e+00
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## 1215 0.6812850455 -0.2206119454 0.342748882 0.6281509225 5.791217e-01
## 1216 1.3004730477 -0.7414995101 -1.145444605 -1.3799885228 1.241308e-02
## 1217 -0.0779076670 0.1284607770 0.707883779 -0.3856209125 9.602202e-01
## 1218 0.6351522944 -1.3907099158 -0.472910959 0.6628422716 -5.613593e-01

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## 1219 -1.0569101465 -0.4143719408 0.362189721 0.3868530002 9.393912e-01
## 1220 -0.3182211396 -1.8688848482 1.053046964 0.4835979045 -1.067131e+00
## 1221 0.6684864083 -1.2384027568 0.481853114 0.3964878575 2.795594e-01
## 1222 0.2584364294 -0.7917560634 1.439080947 0.7129281248 1.501643e+00
## 1223 -1.0177676034 -0.5887461225 0.852115844 1.0625015750 1.500262e-01
## 1224 -0.4410060716 -1.1345456207 1.461289381 1.3051264974 8.183429e-01
## 1225 -0.6408564303 -0.5900875495 -0.723085905 0.3440425022 -4.059928e-01
## 1226 0.3141585368 -1.0328437510 -0.772125019 0.4439591646 9.131007e-01
## 1227 0.2227060529 -0.0873230433 1.112441568 -0.9868403413 -4.266507e-01
## 1228 -0.8592105791 -1.6180076933 -0.721441592 0.3848548321 -3.262930e-02
## 1229 -0.8603268554 0.5173970918 0.354265107 -0.8528607027 -2.390307e-01
## 1230 0.6430999463 0.6952588912 -0.376905815 -0.9640609843 6.369117e-01
## 1231 0.1560846656 0.0860998179 0.439308030 -0.1353838228 1.013754e-01
## 1232 -1.5542566280 -0.9281798212 0.638872741 -1.0793967840 -7.579803e-01
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## 1235 1.6192544386 0.6709823593 -0.042426162 -0.1204972555 6.051332e-02
## 1236 -0.7157363402 0.3512625262 0.606554713 -0.7008326268 -4.178654e-01
## 1237 -1.9317289693 -0.2193818851 -0.377238345 0.4353365187 -1.477794e-01
## 1238 -1.4633699884 -1.8181914321 0.645999512 0.0220267194 -5.841580e-02
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## 1243 0.5746675791 0.2687993924 -0.894819126 1.5364616018 3.312676e-01
## 1244 0.2602084569 -1.1481611413 -0.365661691 0.3634806329 2.750853e-02
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## 1256 0.4714387214 -0.0897590478 -0.944167757 0.7395561215 -2.045727e-01
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## 1265 0.3720646888 -0.3203100700 -0.552678063 0.0321426253 -7.850466e-02
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## 1271 -0.2251847967 -1.1016042010 1.038062013 -0.3567181080 3.644899e-02
## 1272 -0.3805106508 -0.2544560053 1.011659868 0.8951690800 4.113913e-01

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## 1273 0.0521471118 -1.1845965115 -0.232280469 -0.2888100816 4.582946e-01
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## 1275 0.8503648785 -0.4217480265 0.214973260 -0.1221534039 -8.460626e-02
## 1276 1.4343935858 -2.3376927519 -1.467094354 0.3482349401 1.028459e+00
## 1277 -0.2279288645 -0.4814476778 -0.348023568 -0.9129084466 5.238209e-01
## 1278 0.2271451667 -0.5197326740 -0.291711885 0.6222151267 -8.191643e-01
## 1279 -1.4396198442 -1.4961417577 0.412238918 -0.3526219458 -1.050161e+00
## 1280 1.6654673666 0.2361045688 0.156580251 0.2856239660 1.048322e+00
## 1281 0.2633039322 -0.5093810815 -0.092275402 -0.0309927722 5.456779e-01
## 1282 -0.2342159452 -0.6241870327 1.154852195 0.7751766502 4.045970e-01
## 1283 -0.6916823594 -0.1177571989 1.331968022 0.1780665222 2.117990e-01
## 1284 -1.5304798248 -0.2128400029 0.918110017 0.3393862922 -1.308237e-01
## 1285 -0.0536383393 -1.0813542166 1.508747155 0.2471707896 -4.073845e-01
## 1286 -0.0584629934 -0.0517031540 1.397343834 -1.4286612600 1.384286e-01
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## 1290 -0.5100872630 -0.8675734130 1.057991308 -0.6141652342 -4.461695e-01
## 1291 -0.0126400101 1.2859108498 0.219251822 1.4388335983 -8.932396e-01
## 1292 -0.2044649617 1.1475714318 -0.522108636 0.7533129627 -4.480806e-01
## 1293 -0.6829443226 0.2618290839 0.744813449 0.4024245015 5.230662e-01
## 1294 0.9984144578 -0.5512137224 0.195396616 -1.2748511427 5.716866e-01
## 1295 0.6828185467 0.7649775745 0.070550858 -0.1075096743 1.920580e-01
## 1296 0.2936648968 -1.7662996479 0.901589494 0.2552750921 1.654342e+00
## 1297 0.3674760388 -1.2586418314 1.334034116 -0.0938514374 -1.767467e+00
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## 1299 0.3510623209 -0.8008646547 1.465837610 1.4703562955 3.143272e-01
## 1300 -0.4164418271 -1.7014103174 0.382033269 0.8684027841 -5.196292e-02
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## 1312 0.4377805947 -0.2843599512 -0.968409740 0.4360248765 -5.069784e-01
## 1313 -1.9825319280 1.2389282422 -0.514233902 2.1207468842 2.434917e-01
## 1314 -1.5264454383 -0.9772395770 0.381431047 0.3026981247 -1.338695e-01
## 1315 0.3737953273 0.1205102436 0.865782625 0.2477819809 5.392739e-01
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## 1325 -0.6624290256 -1.4901718761 1.822665604 -0.2138122667 -1.380941e+00
## 1326 -0.9505652954 -0.8657268852 0.512077439 0.1107446840 6.439773e-01

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## 1327 -0.1734753608 -0.7085523467 0.255889741 0.5006002576 -1.128360e+00
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## 1332 -1.3482116298 -1.0333582689 0.264849390 0.9644338879 5.059055e-01
## 1333 -0.0143184917 0.7411142281 0.748248323 0.4643313071 1.727077e-01
## 1334 -1.0302189054 -1.3912444260 0.948153624 1.2833656791 -3.131415e-01
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## 1336 0.1763083233 -0.7717441470 1.425049799 0.3899635663 -1.744190e-01
## 1337 1.3907617058 -1.5528576036 1.069301367 -1.4159455782 6.541385e-01
## 1338 0.2788715647 -1.5074077883 -0.953344547 0.6050143393 3.730152e-01
## 1339 0.4286048888 -1.0876280630 0.237074169 1.3109209946 4.169789e-01
## 1340 -0.3653054893 0.3595742429 0.748103325 0.5436010990 -9.936433e-02
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## 1342 0.0593423018 0.0331797227 0.099928210 -0.2483182492 -4.148783e-01
## 1343 -1.2320643258 -1.6939480215 -0.479221039 0.6054754667 -3.615493e-01
## 1344 -1.0371537312 -0.1591973189 0.002259238 -0.2537654671 1.823760e-02
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## 1347 0.9751391184 -2.0375600248 -0.037764460 -0.3764645587 4.797523e-01
## 1348 0.4554578961 -1.4558640430 0.096135897 -0.3671337148 -1.884362e-01
## 1349 -1.1433359919 -0.4146570294 -0.470055107 0.4806172865 1.161051e-03
## 1350 1.1002708804 -1.0842318488 -0.591790362 -0.4522151854 3.946578e-03
## 1351 1.5420527815 -0.5245183574 0.036156515 -0.0724192493 -9.794222e-01
## 1352 1.5566987078 0.7938607688 0.925295429 0.4886869784 -6.522387e-01
## 1353 -0.4332876040 0.3719953333 -0.368581721 0.4942908859 7.817657e-01
## 1354 0.1357365799 0.6026924932 -1.481989664 0.1834274641 6.672871e-01
## 1355 -0.7113910148 -1.3010375999 1.207929929 0.2877884924 2.213181e+00
## 1356 0.5456862483 -1.3423737643 -0.774886818 -0.5431642879 1.998083e-01
## 1357 0.3244789190 -1.1883263198 0.445407220 -0.2382531588 -2.395673e-02
## 1358 -1.1869689209 -0.8306069911 1.454356374 -0.2472773133 -6.157925e-01
## 1359 1.0777408412 -1.8264198925 -0.191987026 0.0943382523 -3.067507e-01
## 1360 1.6316863671 -1.0445541934 0.164868570 -0.4743472348 -2.711764e-01
## 1361 2.2254089361 -1.9549284959 0.986078055 0.3133413540 -4.288912e-01
## 1362 0.5778733932 0.1384304625 0.764730325 0.8555031487 4.980750e-01
## 1363 -0.4697046733 -1.0008730919 -0.404799892 -0.3422242029 2.111770e-01
## 1364 0.4309769316 -0.5499270485 -0.730125426 -0.6516120929 -7.389640e-01
## 1365 -0.1545487725 -1.2305906364 -0.235510911 -1.0122794154 -1.093763e+00
## 1366 -0.1177713045 0.0388754391 -0.231332143 1.1432723222 4.894694e-01
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## 1368 -0.1435452019 -1.5236128247 -1.457598325 0.0436495700 -3.957215e-02
## 1369 0.4732871766 -0.3712323152 -0.287958508 -1.3141429604 -5.659043e-01
## 1370 -0.1455591454 -1.9788365048 0.074266541 1.7063845802 -1.293811e-01
## 1371 0.0862284130 0.2711794121 1.135461730 -1.1255322774 -5.195496e-01
## 1372 -1.2962435584 -0.7810960566 -1.334290862 -0.2146391050 1.314274e+00
## 1373 0.1090029464 -1.5741323651 -0.348657684 -0.0718796729 1.120749e+00
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## 1378 -0.0058743986 -1.1345084068 0.338960374 0.7105702094 6.142382e-01
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## 1380 -1.7718285745 -0.6166631945 -0.356868624 0.8210840381 3.871640e-01

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## 1381 0.3194902885 -1.0636046996 -2.239991667 -0.1631482850 -1.879423e-01
## 1382 0.3403020081 0.2210572577 -0.300890542 -0.2765367848 -1.290510e-01
## 1383 -0.2195959634 0.0682355989 -0.553027416 -0.9049223984 4.500458e-01
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## 1398 0.7649806389 -0.6627333758 1.101563101 -0.9018895592 1.269609e+00
## 1399 -1.1473677905 -1.1387927819 0.195428032 0.7362692548 -3.729386e-01
## 1400 -0.5508958655 -1.5100542337 -0.462612185 -0.7685545108 -4.433938e-01
## 1401 0.1159478235 0.3956070599 -1.529916856 -0.4201177590 6.004560e-01
## 1402 -0.2603692644 0.8099859406 -0.578176443 -0.6930525912 -4.873657e-01
## 1403 0.0304986522 -1.7682879144 -0.101508734 -0.2809498403 3.468176e-01
## 1404 -0.2704973978 0.3313409796 -0.650413475 0.1580387334 6.491851e-01
## 1405 -0.0111181014 -0.3070918904 0.420131916 -1.2394706158 3.640953e-01
## 1406 0.7143506372 -0.9805914311 0.173256074 0.7946173049 -9.642568e-01
## 1407 0.9805626362 -0.8179090165 0.076088432 -1.6988857892 3.917647e-01
## 1408 -0.3119763302 -1.4143891842 -0.512839573 0.0318088951 -4.310447e-01
## 1409 0.0084487724 -0.0093670862 1.152162584 0.4423195345 -4.826698e-01
## 1410 1.3419815028 -0.2827648907 0.311844170 0.8085410526 1.428494e+00
## 1411 1.0008674075 -0.7521723919 1.151125317 -0.4212671358 2.550153e-01
## 1412 0.0043984289 -0.7447735726 0.364870148 0.5371792224 -4.236472e-01
## 1413 -0.3127472825 0.1854821425 0.518061144 -0.3020527217 -6.295404e-01
## 1414 1.0442642119 -1.2079701452 0.945394074 -0.4687988458 -1.023119e+00
## 1415 -0.4965412990 -1.2487200105 1.040528346 -0.3779019288 1.052469e+00
## 1416 0.7820068602 -1.3634274133 -0.983438153 0.0440800456 4.535468e-01
## 1417 -1.5103484929 0.0476845938 0.070990710 0.0175910437 3.662295e-01
## 1418 -0.3951510326 -2.1351527423 -0.381508801 -0.2053241995 8.444556e-01
## 1419 0.3424559657 -1.9269113416 -0.654300510 0.0346606168 7.709379e-01
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## 1422 2.2206719887 0.6304496694 -0.231082023 -0.0646812246 4.082921e-01
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## 1429 0.5000613677 -1.0538084843 -1.430891639 -0.3614638524 6.685289e-01
## 1430 0.7123074131 -0.6816260524 2.985100869 -2.0274475290 -4.629030e-01
## 1431 1.4748079279 -0.5362109055 0.146584219 -1.0709186539 -1.715390e+00
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## 1433 0.7097560192 -0.0691869469 0.529578625 0.3613030849 -3.526318e-01
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## 1435	0.0967223685	0.0540083062	0.161747497	-1.4565933815	1.077121e+00
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## 1437	-0.5623920719	-0.5032221091	0.092333631	-1.1555999034	-4.883950e-01
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## 1444	0.6176177201	-0.6659583611	0.218011056	-0.1602875492	-1.513472e+00
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## 1448	0.8442946800	0.9090841308	0.551755171	0.0175491939	3.975123e-01
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## 1453	-0.1666735544	-0.9443005483	1.207086195	1.1361983670	2.808789e-01
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## 1470	0.2862666558	0.1541575043	0.551526924	0.1940176224	2.381815e-01
##	PC25	PC26	PC27	PC28	PC29
## 1	-0.5790510070	-0.2924785878	0.314750360	-0.1272863565	-0.3618759137
## 2	-1.3205700682	-0.0798995987	-0.721999789	0.2089396747	-0.0008823340
## 3	-0.2911715215	-0.3991559337	0.301790773	-0.1012158308	0.2842316573
## 4	0.5374132794	0.8704235523	-0.310513782	1.1789581163	-0.5848287061
## 5	1.1481841353	-0.3793264715	0.412202344	-0.0900085272	-0.3007827646
## 6	-0.3824137743	-0.4665560876	0.326838953	0.2770485514	-0.1036458861
## 7	-0.2808421371	-2.0535636425	0.048527191	-0.0212410056	-0.8342730900
## 8	0.0849679362	0.6726682147	0.626408389	-0.2547552761	-0.3366045659
## 9	-0.3955115247	-0.2131005144	-0.272109323	0.0356325422	-0.4008502587
## 10	1.0760715082	-1.1301992969	0.466901269	-0.1801513555	-0.1903345275
## 11	-0.2340799321	-0.2986031953	0.393666812	0.2789088279	-0.1782553493
## 12	-0.2053561687	-0.4173439430	0.388966122	-0.4979889358	-0.2509054162
## 13	0.6610233365	0.8316258414	-0.429789074	-0.2287475493	0.6445874783
## 14	-0.0995214117	0.6634748957	0.676623349	-0.0975029335	-0.4359982510
## 15	0.0721322528	-0.2419011112	0.353235228	-0.2142336417	0.0581085049
## 16	1.1343671349	0.7624516392	0.036892600	0.1366190972	-0.3048018958
## 17	0.1154279806	0.0723890401	-0.635805909	-0.3834623045	-0.3485114535

## 18	0.8786853699	-0.1350777506	0.405690513	-0.0828632895	-0.2053078869
## 19	-1.0081543674	0.3883055399	1.111027608	-0.1271521201	0.2902999203
## 20	0.6074170391	-0.1034413490	-0.523324701	0.0447463439	-0.5102833634
## 21	0.2358882220	0.8806179489	-0.049351265	-0.0386083535	0.8658887517
## 22	-0.7192415466	-0.0128726220	-0.136616476	-0.0636713215	-0.2451757704
## 23	-0.1708011003	-0.1386685947	-0.681834665	-0.6932479164	-0.3826554684
## 24	0.5603705048	0.1633933960	-0.782041876	0.0366412554	-0.0246376916
## 25	-1.0831129418	-0.1226032780	-0.846941922	-0.0294031952	-0.4630236949
## 26	-0.7562874427	0.6688124630	0.054228157	1.1565559942	-0.2537014046
## 27	0.2853115803	0.0527427091	-1.014474426	-1.0548318074	-0.2810372023
## 28	-0.0817142499	-0.2862902330	0.322220764	0.9147740576	-0.5352241554
## 29	-0.8143412278	-0.3358040463	0.547601488	-2.1188857788	0.1470587024
## 30	0.6310462122	-0.8291917874	0.932416681	0.2728680444	-0.2667959764
## 31	0.1200812114	-0.3495912318	0.391396946	0.1582069983	-0.5920325488
## 32	0.0137955970	0.2194230386	1.103041369	-0.3955294713	-0.0789391176
## 33	-0.1863428392	-0.2649060025	0.124630165	-1.5999615254	-0.2021721559
## 34	-1.7099412929	0.1175000958	-0.264600188	-0.1711987463	-0.2020476668
## 35	0.4255897929	0.1178165615	-0.717931268	-0.0319892158	0.3535033742
## 36	-1.2713852025	0.1404288244	-0.657640776	-0.1113425142	-0.2572984317
## 37	-1.2491655008	0.5338553978	0.415902483	0.0839442583	0.2703779683
## 38	-0.0275691019	0.8465245837	0.367822146	-0.1455794326	-0.0569900066
## 39	1.2513443710	0.1051067589	-0.500883765	0.0772839124	0.0773217163
## 40	-0.0548575058	-1.0901371584	-0.038851779	-0.0654626165	0.8532326409
## 41	-0.2316761370	0.6456896319	0.744015406	-0.0488448113	-0.2173884561
## 42	0.0865216320	0.6373360981	0.615247778	-0.1372111748	-0.1324276093
## 43	-0.1954983620	-0.3338522912	0.232206817	-0.1531136567	-0.3233876588
## 44	-0.3057812353	-0.4431129205	0.211467845	0.3090020926	0.2741866984
## 45	-0.5353961315	-0.3304002835	0.325448849	0.1826374924	-0.1274532224
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## 49	-0.2261789621	-0.3135838913	0.267023322	-0.3697033975	-0.5840692584
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## 59	-0.4376493305	0.7458822454	0.649716115	0.0556315661	-0.2542563108
## 60	-0.5500929590	0.7030838517	0.133909901	-0.3470466442	0.9688399584
## 61	1.3462279775	-0.2019015479	-0.043275722	-0.0305366063	-0.2073319540
## 62	0.6504780296	-0.2497755820	0.294745237	-1.2914153769	-0.4547566981
## 63	1.8529930648	0.8589696268	-0.774431940	-1.3734000913	-0.2655309235
## 64	-0.2722223509	-0.2707057442	0.220390943	1.3752648291	-0.5472726263
## 65	0.8151905887	-1.0348521107	0.549450538	0.9130495893	0.0137144237
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## 69	0.3366027383	-0.0740322139	-0.605087207	0.2237064118	-0.1186126487
## 70	-0.5274447853	0.0197379508	-0.649990912	0.0997346452	0.7301446383
## 71	-0.7902791723	-0.5288428603	0.176507330	-0.0107189372	-0.5730634381

## 72	-0.4554503505	0.0701124375	-0.689794250	0.0654752476	-0.2119890362
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## 74	-0.5374955403	-0.7717738598	-1.064129302	-0.7651624013	0.6075271909
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## 89	1.0429076061	-1.8820907812	0.336105850	0.1802113637	1.0781822299
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## 114	0.2023538008	-0.3072533486	0.335909882	0.0609742141	-0.4312134729
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## 133	0.1799206290	-0.0089497024	0.291498552	-0.1291764832	-0.3759354804
## 134	-0.3984051797	0.6051190008	0.555741386	-0.0362862587	0.0207805403
## 135	0.1814443730	0.1226506476	-0.675703794	-0.0654122444	-0.0819398839
## 136	0.1887420090	0.0329205118	0.021851256	0.2370141701	-0.6308388702
## 137	-1.6379680761	-0.2664383147	-0.573182026	-0.0585657088	0.2671037559
## 138	-0.5618931475	-0.0846953929	0.276031081	0.1150759113	0.0509495698
## 139	1.2214599125	0.6160773626	0.336309407	-0.1560019043	0.7795325215
## 140	0.5792638992	0.5861646711	-0.397955681	0.5153796110	1.0731377680
## 141	-0.6668573875	-0.2808061236	0.335271163	-0.0717841650	-0.3172421472
## 142	-0.2494736490	0.0396101911	-0.660174363	0.4902542739	-0.2069246089
## 143	0.6991561006	-0.0279393356	-0.601209293	-0.0313578824	-0.8962021686
## 144	0.0757603477	0.0668707980	-0.677477452	0.2004518202	0.0317472412
## 145	-1.2843127525	-0.8431492263	-0.021923928	-0.0778252458	0.6160208421
## 146	0.3710802193	1.1047397370	-0.384683110	0.0085536147	0.1371529592
## 147	-0.1512614440	-0.5263956276	0.299935219	0.1177001087	-0.1972958273
## 148	1.1163809009	0.6485858511	-0.091830341	-0.1667391046	0.0798256106
## 149	-0.2709861210	-0.2959451873	0.405172039	-0.8013035531	-0.5370891305
## 150	0.5278827556	-0.4231418798	0.327067639	-0.0757888803	0.0281814137
## 151	-1.0961856759	1.0705295080	-0.647496422	-1.1774932843	-0.5810762399
## 152	-0.3918265881	-0.8921120006	0.043795717	0.4958211905	-0.1587979730
## 153	-0.0759403914	-0.4275384587	0.185299016	0.4102876979	-0.7410607630
## 154	-1.2768268257	0.5341154532	0.667086618	-0.9235318870	0.9016372094
## 155	-0.1021061804	-0.3162593168	0.190448133	0.2587434536	0.1482481692
## 156	-0.9892013385	-0.3013267712	-0.313630094	-0.3384705938	-0.1302164192
## 157	-0.2573285026	0.4625225895	0.060067218	-0.0025526871	0.6436628095
## 158	0.1118729377	-0.0401094303	-0.508625618	0.0417746034	-0.6905560137
## 159	-0.1424886276	-0.0684178758	0.255130702	0.1401496942	-0.3692002787
## 160	0.0495189720	0.0618094499	0.133899259	0.1489184537	0.7836825734
## 161	0.6845362132	-0.4633402458	-1.084315950	-0.1346975638	-0.0919697709
## 162	0.7530220088	0.9045628801	-0.417220731	0.1194776963	0.8039919139
## 163	0.1523957787	0.1540984680	-0.636239229	0.1846999844	-0.6293315773
## 164	-0.1111539235	0.2551642415	1.177787194	-0.1081802897	0.6435417716
## 165	0.7059499245	0.8368198701	-0.415011789	0.0083125589	0.2686559094
## 166	0.4914081364	-0.4100681690	-0.452738584	0.0327327237	0.3637531307
## 167	-0.5153214941	1.0075853396	-0.248183760	0.0994983868	-0.2864399615
## 168	0.8624245165	-0.0946560675	0.216931800	0.7449530117	-0.3084683098
## 169	-0.3620916975	-0.1383158804	0.207718712	-0.8612721639	-0.3394419176
## 170	0.3325681428	0.0678126275	-0.551789533	0.0662714627	-0.8098033543
## 171	0.8837254720	-0.0610645394	-0.682788253	0.2226098467	0.2924541077
## 172	-0.4214190748	0.0558661832	-0.217886088	-0.0972020502	-0.4955156824
## 173	0.7981844844	-0.5760722841	0.298584832	0.8007678267	-0.4463939575
## 174	0.1597861073	-0.1632176519	0.337869393	-0.1007762578	-0.4132599112
## 175	-0.0348005374	0.5224228187	0.745006934	-0.0133237275	-0.4379766034
## 176	-0.1473531508	0.7851040683	-0.365490261	-0.0709271524	0.8026965152
## 177	-0.1536716124	0.0445731053	-0.621475392	-0.1709506611	0.0356175191
## 178	-0.1314539609	-0.1991873027	0.316280711	0.0184968356	-0.3572268214
## 179	0.8650395655	-0.7405456170	-0.133992987	0.8039542737	0.2414496893



## 180	-0.0951367090	-0.3566272202	0.431496780	0.1086199786	-0.2578741288
## 181	0.7448812702	0.2607262105	-0.471295692	-0.0827729229	-0.1012206300
## 182	-0.0696959056	0.0917326006	-0.742340116	0.0637097224	0.1916432372
## 183	-1.0178302982	-0.1807174589	-0.024913740	0.2529582957	-0.3131709613
## 184	-0.7553264556	-0.3820872873	0.513293343	0.2094963093	0.4051559408
## 185	-1.1594320111	-0.1629983217	-0.097670501	-0.1479971822	-0.3413625377
## 186	-0.7598886969	0.2269931164	-0.675068890	0.3386978504	-0.1094498280
## 187	0.3895597360	-0.2039655369	-0.413529759	-0.3208840422	0.2487291495
## 188	-1.3645094088	-0.1332872468	-0.847114417	0.3217805254	-0.4936631970
## 189	-0.8291303043	0.5036759704	-0.092337699	0.2077580408	0.8184054130
## 190	-0.4175319124	-0.5074126195	0.630805259	1.4592201309	0.8825655214
## 191	0.0742126867	-0.0128103017	-0.412397013	1.6012032781	0.0323775596
## 192	-0.3603597070	0.0463301043	-0.643742605	0.9608817227	0.4055600202
## 193	0.0245809504	0.6638184207	0.031919531	-0.2443278726	-0.0476027209
## 194	-0.8581093387	-0.5899651238	-0.867237234	0.3205123972	-0.0413468497
## 195	1.4284101424	-0.1423603935	-0.370239938	-0.2746053201	-0.0357355602
## 196	0.3622797689	-0.0853862531	-0.511359392	0.2291579379	-0.3077880278
## 197	0.2868202437	-0.3749377398	0.326221243	0.0572195550	-0.5379687810
## 198	-0.6040024818	0.8403643121	-0.043861155	0.1667675775	0.4169586096
## 199	0.5805013172	0.8078919677	-0.038511727	-0.1764244527	-0.0442284353
## 200	-0.1594508536	-0.0646948550	-0.224361475	0.2136962445	0.8630629977
## 201	1.0351767040	-0.2840314007	-0.188415231	0.3768853535	1.0566693087
## 202	-0.5547409427	-0.0755066540	-0.030924504	0.0676556327	0.4240777507
## 203	0.5255195106	0.9664474493	-0.334266965	0.4478007970	0.5957316573
## 204	0.6426181810	-0.2273284148	0.345219696	-1.2669096055	0.2383352679
## 205	0.1645791791	0.2242538131	0.913292128	-0.2007397262	0.9627139422
## 206	-1.5873069560	-1.4352138191	-0.467966988	-0.8305687812	-0.3505809578
## 207	1.2047139199	0.8663224802	-0.340273274	-0.1205930707	0.3634980365
## 208	-0.4502562773	-0.3351361418	0.297006558	-1.1736262943	-0.1251174257
## 209	0.3997428349	-0.3290643269	0.827666032	0.0593914987	0.0766929485
## 210	-0.1411149851	0.4157752209	1.008137166	-0.2345246856	0.5280236339
## 211	-0.2014917948	0.7405826861	0.151500207	-0.1630459783	-0.3656885095
## 212	0.2667214634	-0.2424554966	-0.438031667	0.0332738565	-0.2264183121
## 213	-0.4549548442	-0.1516065147	0.109740384	0.0965637744	0.1173597889
## 214	0.0622031856	-0.8584653515	-0.941611136	0.6505427795	0.5271670602
## 215	-0.5540976574	0.0984833476	-0.787803317	-0.2798386031	-0.4743561047
## 216	0.4791660267	-0.6686638111	1.098260166	-0.2051561453	0.7586657973
## 217	-0.3445953303	-0.0298725326	0.012723029	0.4627665395	0.1766403783
## 218	-1.4395689019	-0.0291403977	-0.874022430	-0.3780728298	0.0697925696
## 219	0.8163845606	-0.1649833579	-0.091700900	-0.5693021712	-0.3761814191
## 220	-1.5248273571	-0.3363033681	0.153865658	-0.5816481698	0.0168893159
## 221	-0.2002350774	-0.4073916765	0.288060044	0.6366463868	0.4339238053
## 222	0.4825178409	1.0340136955	-0.294774748	0.1780329995	-0.4993452025
## 223	-0.2277905199	-0.7813948160	-0.649982065	0.4214081171	0.1740203174
## 224	-0.4061169160	0.0279281575	0.074692104	-0.3875476819	-0.2122529217
## 225	-0.0876052999	-0.0676636649	-0.214293758	0.1392047020	-0.2574254037
## 226	-0.7413257023	0.1062313279	-0.612301075	0.0778605079	0.6551171769
## 227	0.0807100650	0.8322598683	0.415373966	-0.0457376358	0.6364355560
## 228	0.1298847721	-0.1012710772	0.160777182	1.6037677239	0.0025048802
## 229	-0.7256675866	-0.2084454548	0.156944669	-0.1409879530	0.1460952807
## 230	-0.4956416986	0.0573200317	-0.765679852	0.4926393254	-0.1161875526
## 231	0.0128595057	-0.3488834847	0.452476164	-0.0281897489	0.3767584712
## 232	0.1274116660	0.5766470814	0.009101570	0.5668726744	-0.0782261794
## 233	-0.2733149167	0.4895951628	-0.214573807	0.1271352171	0.8412307053

## 234	-0.9896167409	0.4469277605	0.983782957	-1.2709029517	-0.5709092324
## 235	-0.6703309118	-0.2279197937	0.398114433	0.0831983584	-0.1123376059
## 236	-0.5005497341	-0.3182775987	1.212301312	0.6766525599	-0.2574679809
## 237	-1.1701124257	0.6541498326	0.635916173	-0.1045430775	-0.6146932247
## 238	1.5444389463	-0.7392111446	0.619338762	-1.4826584621	0.7509053561
## 239	0.0227100240	-0.0261685980	-0.038089555	0.0101656409	-0.6120124330
## 240	-0.5569991902	-0.4776480572	0.354689881	0.1984850225	0.1617985034
## 241	-0.1496188594	-0.8056917016	0.253374740	-0.1917183026	0.0508614782
## 242	0.5832237587	0.7347884237	0.446595063	-0.1202014039	0.7800867221
## 243	-0.0791912104	-0.0189278389	-0.834020449	-0.1056217550	0.1616264640
## 244	-0.0941669705	0.1870520843	-0.701369040	0.1507976520	0.6772620966
## 245	-1.0115095239	-0.0983753107	-0.526323062	-1.3728172987	-0.6289015158
## 246	1.5800500205	1.0106388280	-0.396287573	-0.0748291598	-0.2215755935
## 247	-0.1737205216	0.1942313928	-0.581024154	0.0985462507	-0.0923311787
## 248	0.5478202772	-0.0313939454	-0.216372745	-0.0128325699	-0.0188899852
## 249	-0.2119364653	0.0305940233	-0.847995983	-0.1983948485	-0.1051356582
## 250	-0.2561070390	-0.2304439377	-0.139793603	0.1078837337	0.6220015021
## 251	-0.5363306049	0.2207560246	-0.538129440	0.0123257810	-0.5807027728
## 252	0.7436950202	-0.5037975099	0.580532387	-0.5916735342	0.2794077711
## 253	-0.0046805770	-0.0259782066	-0.667785708	0.0035884028	0.9398889492
## 254	0.1958345490	-0.2243893709	-0.661970544	0.0503448207	-0.1114222243
## 255	-0.2272131779	0.7904825151	0.405034855	-0.1980585878	-0.0411188577
## 256	0.2358330942	-0.8013532399	-0.401188201	0.0543266870	-0.3525681965
## 257	0.4343787973	0.5279341960	0.787584570	-0.4570491388	-0.2598319556
## 258	-0.4928775654	0.8344636816	-0.793084586	-0.3315838052	1.0692907863
## 259	-0.6282463933	0.7443453891	-0.253478106	0.0989385167	-0.3711964114
## 260	-1.0639938529	-0.2531689026	0.247571574	0.0756664821	-0.4235799578
## 261	0.0280421919	0.4816518503	0.541134780	-0.3358075756	-0.7772836145
## 262	0.1421897784	-0.3336860190	0.159954624	0.1315315778	0.7963551048
## 263	-0.0769844964	-0.4360795616	0.248309624	-0.3097363038	-0.0947937848
## 264	1.2570987235	-0.6476673687	1.040376166	-0.0867283091	-0.1855652840
## 265	-0.3059226075	-0.2471700312	0.220513753	0.2162919240	-0.5524184537
## 266	0.7345369007	-1.0296152051	-0.105172243	-0.0984868384	0.8229055921
## 267	1.0404543327	-0.3365327408	0.614161429	-1.9051090013	-0.5473959739
## 268	-0.0388529172	-0.4437700211	0.847997029	-0.3578987246	-0.2829319299
## 269	-0.0658165632	0.2724821744	0.820072081	-0.7415436200	0.1356488441
## 270	-0.1523685857	-0.2239265241	0.284070140	0.1698318599	-0.5022790244
## 271	-1.0922589911	-0.4431634035	-0.492984102	-0.5733057125	-0.0533077402
## 272	0.3929188540	-0.2551937799	-0.101952004	-0.1365264622	0.0301773450
## 273	-0.3820424337	0.2681161138	-0.726020663	-0.3141414109	-0.2249530208
## 274	-0.0125428999	0.0920606523	0.279035517	0.4653811206	0.0275674701
## 275	0.7258508347	0.1271705922	-0.818089868	0.2431947967	0.5432024339
## 276	0.6264726599	0.1434655465	-0.597449494	0.0261972513	0.8017119997
## 277	1.6544219141	0.8862983212	0.144049255	0.8209086622	0.9394971289
## 278	1.2507889326	0.5371156105	0.555395541	-1.5742656604	0.1778120522
## 279	0.2793178810	0.9751195858	-0.084748134	0.2212329953	-0.6862603085
## 280	-0.3051371595	0.0194345342	-0.997388886	-0.2274690172	0.0670342900
## 281	0.0597850319	-1.7737930899	-1.295772294	0.1976157737	0.3637344785
## 282	0.2609915355	0.6765404267	0.501253148	1.6105860761	0.2347391900
## 283	-0.5081967380	-0.3786423610	0.188943193	-0.2530634245	0.7560843054
## 284	-0.9724298534	-0.4733543765	0.498776540	-0.0058719893	1.1643486528
## 285	1.5646938536	-0.6744909033	0.931552973	-0.0542589639	-0.0749369580
## 286	-0.8089949851	0.0874765636	-0.697225175	0.8310597401	-0.4719984825
## 287	-1.1584119138	0.5872168809	0.537034251	-0.0862333030	-0.5079019552

## 288	0.5767642723	0.6875044723	1.167691754	-0.2584846525	0.0979901363
## 289	-0.2062284002	0.6017562596	0.671104738	-0.0853652111	-0.1197623891
## 290	-0.4480106191	0.1691332255	-0.696457477	0.1789891068	-0.5953976503
## 291	1.1982882339	-0.2846797185	-0.761106984	0.1226512598	-0.4572107194
## 292	0.9521920317	-0.2133719931	-0.860186760	-1.4014389560	-0.2879038905
## 293	0.1378055466	0.9738748877	0.337605161	0.0464627895	-0.4303098136
## 294	0.5511982737	-0.2341742535	0.273887681	0.3826141390	-0.2636648801
## 295	0.3591111234	-1.5746851077	-1.057476720	0.1272053620	-0.4482588216
## 296	-0.1262329494	0.0433631936	-0.151618256	-1.0023531317	-0.0346015897
## 297	-0.4654066548	-0.2874037112	0.323367227	0.0004486509	-0.1250975864
## 298	0.2556952585	-0.9662578951	-0.134498414	0.0680657629	0.2903769831
## 299	0.0170163758	-0.9428703015	0.172095714	-0.0129714473	0.7203391928
## 300	-0.4795884048	0.7328290617	-0.048464253	-0.3102177054	0.8903909136
## 301	-0.7851807722	-0.5779108628	1.021446353	1.0990506192	0.8794627766
## 302	0.8083950695	-0.0157916493	0.078203851	-0.1499017854	-0.4220826248
## 303	-0.1458599290	-0.7860152589	0.709989336	-0.7273269442	0.9712623217
## 304	1.1036930910	-0.0159653232	0.262482838	0.0103654550	-0.4272565802
## 305	-0.8646948425	-1.0583006230	0.416514115	0.5202594446	0.4959254855
## 306	-0.2182215512	-0.1825873083	0.374828703	0.1070128870	0.2867057329
## 307	-0.1719051220	-0.0596963862	0.129309909	-0.0674828309	0.0170976168
## 308	-0.0059764904	0.1048337620	-0.650186519	1.3395069230	0.5458415119
## 309	-0.5512947034	0.1980240991	1.287917816	0.1612130837	0.0146289662
## 310	0.3114559014	0.1720770414	-0.649092268	-0.1192225994	-0.3681255918
## 311	0.8977096315	0.6441172328	-0.325661741	0.5138500975	-0.2287439679
## 312	0.1436336937	0.5459113617	0.335760089	-0.6853654288	0.7699202197
## 313	0.9179057072	0.8521363589	-0.200001543	0.1076297092	0.8549512400
## 314	1.2232612820	-0.8197606901	-0.359693457	-0.4814267445	-0.3514811361
## 315	1.5497252863	0.5018944947	-0.027005525	-0.2311139756	0.3242322006
## 316	-0.9911627543	-0.3336470894	0.441220090	0.1342382390	1.0374839981
## 317	-0.0419776370	-0.6806896748	0.544047088	-1.1943294840	-0.2361178237
## 318	-0.6365982608	0.8723361096	-0.680090630	-0.8948754228	0.4776310566
## 319	0.9356968745	-0.0899447252	-0.587053092	0.2070779348	-0.3638375509
## 320	1.4220778334	0.5398464170	0.612851135	0.3769678476	-0.2882553116
## 321	0.6120758386	-0.3460156394	0.342731123	-0.0854513354	-0.5744600890
## 322	-0.6587067431	-0.6401796481	-0.017288992	-0.0093134303	-0.3710823230
## 323	-0.0238409420	-0.0004471491	-0.570624203	0.2227780558	0.4811204267
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## 525	0.7433612387	-0.5912112869	0.725065725	-0.2046975761	0.2655693211
## 526	0.5231228575	-0.0338201395	0.203401283	0.1882757531	0.0841974516
## 527	0.6486090245	-0.3220236259	0.653752188	-0.9028023441	-0.5135011760
## 528	-0.9285052350	-0.2712509276	0.219531575	-0.0876888758	-0.3726887259
## 529	-1.1370904831	-0.2545942932	0.114750354	-0.0141127939	0.0094055791
## 530	-0.8429506001	-0.5833287439	0.866528275	-0.0150737332	-0.0552836845
## 531	-0.4580315738	0.6931542278	0.066247447	0.2059452450	-0.3227121377
## 532	0.7453117703	-0.0399767979	-0.714152386	0.0009579935	0.4223969115
## 533	-1.0453817626	-0.4508262242	0.269977364	0.1140491201	-0.4375968311
## 534	-0.4473723903	-0.2201904630	0.268772479	0.2434689013	-0.5055067391
## 535	-0.6761138402	0.6587153468	-0.686518264	-0.4126301856	0.8153194448
## 536	1.8391395796	-0.2590273211	-1.912911063	-0.1175484648	0.2866730381
## 537	0.2308622024	-0.4979877849	0.400923074	0.0258436006	0.1180441211
## 538	-0.1654181344	0.0285149081	-0.251682761	0.2359054046	-0.4405888527
## 539	-0.6925739425	0.2751761320	-1.669441548	-0.3951293461	-0.2178805663
## 540	-0.0681727206	-0.1338918513	0.237653681	0.0143194148	0.3428434158
## 541	0.0542567025	0.1120594717	-0.663824717	0.1003193052	0.0170742033
## 542	0.5284667103	0.0184871092	-0.454099840	0.5829884595	0.1890349253
## 543	0.6642931725	-0.1697103214	-0.162676580	-0.0218496453	0.1117708513
## 544	0.0656227039	-0.3538522969	0.283373571	-0.2431706984	0.0399103979
## 545	1.1766685138	0.0299988881	-0.121055746	-2.4352870805	-0.2994832286
## 546	1.3312226884	1.1180803471	0.553148617	-0.2231501006	-0.0941447103
## 547	0.3629556793	-0.0169048474	-0.047039990	-0.0633947827	-0.6471869358
## 548	-0.5613361162	1.7867935769	-0.110527031	-0.0299950376	-0.1837269365
## 549	-0.0323198990	-0.1108044926	0.126839283	-0.1185798209	0.8049415912
## 550	0.6283561984	-0.4767456496	0.782670907	-0.5130858474	-0.4515635745
## 551	0.0957169334	-0.3914478466	0.449877622	0.1587754788	0.0236522071
## 552	0.4557430307	0.0083832589	-0.635812090	-0.4011692373	0.3453021482
## 553	-0.5842466006	0.3622112790	0.974218648	1.0630835271	-0.6169596391
## 554	-0.0845735751	-0.0512474289	-0.595139012	-0.1671197557	-0.6214797185
## 555	0.6407447614	-0.5804754099	0.804275203	-0.1222899895	1.0963623447
## 556	0.0675992643	0.0784330690	0.081833667	-0.1421472372	0.0339801161
## 557	-0.8856017290	-0.3938908960	0.291432998	-0.0138394964	0.5286998435

## 558	-0.1169972930	0.4920028841	1.059486433	-0.2588890542	-0.6423740557
## 559	0.1712903978	-0.8936932916	0.104330348	0.2305285400	0.2364276550
## 560	0.9477874999	0.0675833910	-0.450059788	-0.0771035601	-0.1492866726
## 561	0.5125097291	0.8501278940	0.233463052	0.0487620039	0.0933178935
## 562	-1.8751419492	0.2835327365	0.996749967	-2.1300870880	-0.6705465293
## 563	-0.3478752874	0.0378300704	-0.634140642	0.3535477474	-0.0026536449
## 564	0.2239858740	-0.0895347091	0.139859676	0.1301157098	-0.2272596732
## 565	0.1070555389	-0.3006394261	0.020471928	1.1305094616	-0.1208077438
## 566	0.3374214570	-0.0598236707	-0.705153684	0.1588098933	0.8025424008
## 567	-1.0349020837	-0.2312771245	0.313694007	0.2835897552	-0.1982348188
## 568	-0.3299301078	-0.1423877684	0.247512877	0.2273265598	-0.3279467606
## 569	-1.0054606743	-0.3543798695	-0.375508150	-0.2129246138	0.0784282013
## 570	-0.2277432165	-0.4727157638	0.158200448	-0.2141227534	0.2758984157
## 571	-0.8502787895	0.0460097006	-0.683599903	0.2744212846	0.8100710273
## 572	0.9610766442	0.8498042301	0.685465199	0.1826218059	0.1325375392
## 573	0.6234657106	-0.1859050301	0.942752392	1.0291322246	-0.4251843084
## 574	-0.1642151487	-0.2784603835	0.126891380	0.2426420323	0.6353428599
## 575	-0.1998918452	0.0998817335	-0.625686958	-0.1205662697	0.3530930632
## 576	0.3420708445	0.1327993478	0.038717563	-0.2026346181	-0.3257746208
## 577	0.0913134162	-0.1186174086	0.136567762	0.0185338215	0.9093459585
## 578	0.5330948194	0.1297345781	-0.580615645	-0.0343013551	-0.0453688971
## 579	0.4753419078	-0.2937719160	-0.140482151	-0.8576100187	-0.2597402030
## 580	0.0169227680	0.0877780827	-0.576206639	0.6152422227	-0.4279227885
## 581	-0.0771144235	0.0235858053	0.214796313	0.0207819409	0.4096358392
## 582	-0.0546463439	-0.9739284403	0.114058481	-0.1636065464	-0.6212892193
## 583	-0.8402379357	-0.5790461904	1.007602225	0.0564292022	0.2176394739
## 584	0.4139617445	-0.1634433385	0.274263367	-0.1374727688	0.6739499714
## 585	1.5906102555	0.8800725115	-0.266929163	-0.6384500368	-0.0342984834
## 586	-0.1820493578	-1.0546213763	0.210632007	-0.0545450534	-0.5833047221
## 587	0.3492015291	-0.8519598749	0.042308028	-0.1140224219	-0.6312513645
## 588	-0.4624158235	-0.0763736497	0.448149039	-0.5758276414	-0.6537086848
## 589	-0.5183370464	0.7338531542	-0.626458516	0.1265148503	0.3847852968
## 590	-0.4252017378	-0.3737856792	0.520222686	0.0035350891	-0.3729422962
## 591	-0.3513693387	0.8484029095	-0.334977680	0.4591394145	-0.3908981111
## 592	-0.5320076238	-0.1453641281	0.206415982	0.0801605499	0.3204861943
## 593	-0.2966617672	-0.0699895364	-0.005285448	2.6837652513	-0.6183723070
## 594	-0.8018027305	-0.1516144814	-0.100440476	0.4626887353	0.2798276278
## 595	-0.8318565649	0.2513378381	-0.751985837	-0.0224650894	-0.1019903928
## 596	-0.0951740749	-0.0779034139	-0.939554124	1.1596271999	-0.3519836900
## 597	-0.0768300130	-0.0727124917	-0.566573165	-0.0488909213	-0.1964611253
## 598	0.2872762171	-0.0156524251	-0.031006839	0.1148026707	-0.0273132987
## 599	-0.2078454920	0.0873890506	-0.823562072	0.2999304909	0.6210729311
## 600	-0.1618183068	-0.0710337324	-0.585549695	-0.4051312818	-0.1900697833
## 601	-0.0798150200	0.1517854711	-0.186322324	0.9268915695	-0.2111022039
## 602	0.7133154222	-0.3041755284	0.246066384	0.0267645762	-0.0457961716
## 603	1.2600934788	-0.0994651058	-0.259442791	-0.1223721124	-0.0862243440
## 604	-0.3647726700	0.0349846865	-0.523701489	0.1857960562	0.1898750537
## 605	0.4341273438	-0.0675160386	-0.182438990	0.1096219364	0.0011093324
## 606	0.3658482645	0.3398669110	1.117655559	0.2543311409	0.2547778510
## 607	-0.0814023891	0.2523606207	-0.725018576	-0.1517014750	0.3951906846
## 608	-1.3817181641	-0.8262705207	-0.069632766	0.0728755026	1.0368855412
## 609	-1.2173337182	-0.3655891611	0.194920542	0.7603762183	0.5745107515
## 610	0.7670067789	0.0657158583	-0.834916004	0.2151686323	-0.0227875144
## 611	0.1995361266	0.8680764362	-0.230894366	0.1756334031	0.6974562890



## 612	-0.1182394198	-0.1220773625	-0.404866769	-0.2348312601	-0.5855980201
## 613	1.8216625185	0.7081717945	0.743409991	0.1634184147	-0.6264181293
## 614	-0.3358430089	-0.0563232057	-0.574929787	0.2399773951	1.0636754539
## 615	-1.0117277189	0.2615099809	-0.714749801	0.0503806845	0.1600346491
## 616	0.0211064406	-1.3289172283	-1.229068268	0.1793370773	-0.6725122235
## 617	-0.9464377477	-0.4615773711	0.835204387	-2.1095168281	0.0751310548
## 618	0.4020256111	-0.6506152004	0.927080707	-0.1549686130	-0.2452331767
## 619	0.9470403926	-0.1031119289	-0.637736004	0.5573726872	-0.2031037353
## 620	-0.5182415477	0.6949545968	0.633244984	0.0568286537	-0.3134968219
## 621	-0.0300490517	-0.0510097634	-0.696390113	0.8638663060	-0.5546932356
## 622	-0.4549052411	-0.2754511450	0.405607401	0.6283660960	0.0483435434
## 623	0.0453785604	0.9457468079	0.610849412	-0.1822994828	-0.5597169441
## 624	0.6151625956	1.2744347050	-0.388081973	0.1759905279	-0.3984676037
## 625	-0.3060720306	-0.1557872923	-0.019406449	-0.5836739636	0.5632536329
## 626	0.1330381633	0.5988701186	0.488819764	0.2765063807	-0.3444896669
## 627	0.0829542931	0.2549725253	-0.730296864	0.0709618742	-0.3177192432
## 628	-0.7567165367	1.0084358552	-0.226164840	1.4819454471	-0.5158373146
## 629	0.0536876135	0.0726961825	0.232785453	-0.1663941101	0.9259593863
## 630	-0.1911837987	1.0548290834	-0.567136472	-0.5960162716	-0.1013910570
## 631	1.1639425823	-0.7792422638	-0.464731130	-0.1202476684	-0.4172560997
## 632	0.1181943425	-0.3483735576	0.596975989	-0.0017423848	-0.0688089905
## 633	0.5119405688	-0.2899976193	-0.603674243	-0.2186488358	0.0214940520
## 634	-0.0849486173	0.7363677475	-0.280118422	0.3051328051	-0.4690968892
## 635	0.6419283893	0.4814948700	0.599948190	0.0187605202	0.8959958619
## 636	-0.1734052088	0.0287890384	-0.190864776	-0.1465642243	-0.4763122105
## 637	0.0051694591	1.2525200606	-0.569712404	-1.2339120846	1.1204086269
## 638	-0.4750190669	0.7138281877	0.682533984	-0.4305561160	-0.3107145862
## 639	0.3011402695	0.5890397143	0.524697364	-0.3639710563	-0.2825360315
## 640	-0.8220952711	-0.1140339130	-0.592639638	0.0721275673	0.4666857760
## 641	0.4708892031	0.4093667721	0.465700132	-0.4438301928	0.6081190124
## 642	0.4185207257	-0.2029429150	0.280436808	0.9336761506	0.0328005217
## 643	-0.0910961194	-0.0842672520	0.089810204	0.0556277642	1.0477394873
## 644	-0.1398698884	-0.2858758068	0.385074594	-0.1357926853	-0.2338621456
## 645	0.3657087523	0.1245140546	-0.567166626	0.2289527224	0.8267671415
## 646	-0.4694835568	-0.5598420816	-0.143491559	-0.1257195214	1.0129308518
## 647	-0.0265065010	-0.1884386029	-0.086879867	-0.5480258998	-0.1473980798
## 648	0.4398788051	0.8224463757	-0.092502778	0.4166976821	0.5679144361
## 649	-0.2729619835	0.1254191423	0.022340808	0.5390975718	0.0433825304
## 650	-0.7662817673	0.0443918158	-0.712068665	0.2498947021	0.7685708844
## 651	-0.2810634899	-0.4117849044	0.889629613	-0.1031627249	-0.1362174654
## 652	0.3591351366	-0.2622271326	0.517011603	-0.3528214855	-0.1453217704
## 653	0.1837457319	-0.5930217135	0.098883091	-1.6392431894	-0.1743332724
## 654	1.1703758332	0.8440320509	-0.307409060	-0.5241911716	-0.6019640031
## 655	-0.4669669593	-0.6322997843	-0.851255429	-0.0237622159	-0.5197139698
## 656	0.0673136930	0.8389443672	-0.244117145	-0.1317055423	-0.4635526896
## 657	0.0788496513	-0.2287199028	0.434231872	-0.0441627277	0.0755450833
## 658	-0.0117874404	-0.6741757596	0.130837179	-0.1432554616	0.0004965866
## 659	1.1101513229	0.5886344373	-0.123314591	1.0986900154	-0.0242920906
## 660	0.4877181234	-0.1495445249	0.248793923	-0.0459261705	-0.0257907473
## 661	-1.3566878007	0.5782040009	0.766041629	-0.0134874676	0.3451457697
## 662	0.0222324178	0.8812617738	0.297908240	-0.0937902096	-0.3735269520
## 663	-0.8953118460	0.0108176987	-0.049935102	0.0918503982	-0.1236917255
## 664	-0.6778768760	0.2163602035	-0.918452186	-0.0023503396	0.9732830183
## 665	-0.0616814538	-0.5248221613	0.759828650	-0.7199778131	0.6073669979

## 666	0.0984563948	-0.2517453763	0.162666351	-0.0857432607	0.8297858885
## 667	-0.4538370143	-0.0520453825	-0.182582329	-0.0896062957	1.0818655459
## 668	-0.8698837417	0.8070131383	0.832012682	1.2227232585	-0.0368589070
## 669	0.5739579904	1.1871486259	-0.365026339	-0.1580741527	0.8377474770
## 670	-0.1051180873	0.4759098679	0.701343055	0.0503782109	-0.4114577382
## 671	0.3120060054	0.0391876407	-0.608768441	0.2281728617	0.9902694874
## 672	0.3856133219	-0.0927779345	0.517454423	-0.0629186422	0.0851219395
## 673	0.1048154336	-0.0674427836	0.222137767	0.1597894467	0.6367446144
## 674	0.9731820888	-0.1214616740	-0.525094552	0.0640034386	-0.5340062827
## 675	-0.7846111148	0.2461405856	0.975520248	-0.8786038625	-0.1069354511
## 676	0.8628513875	0.8403525277	0.419932271	0.6873578593	0.1205546659
## 677	-0.5959990494	-0.4499512466	0.940608479	-0.2170478892	0.2568414012
## 678	-1.3400371701	-0.1795149052	0.173968186	0.3510440837	-0.7352922565
## 679	-0.2754790267	-0.7042082786	-0.943806952	-0.0269117259	0.3641070856
## 680	-0.5502478928	-0.0667202557	0.224927526	1.5158274408	-0.2706680973
## 681	-0.0084949727	0.1512580193	-0.787106209	0.2727569407	0.6757254036
## 682	-0.4039596181	0.0195200416	-0.655818412	0.3464538768	0.1068142219
## 683	0.2747169539	0.6832797691	0.641450938	-0.5125868457	-0.6988543170
## 684	-0.2468521357	-1.6496717008	-0.498262704	-0.1092494083	0.6883557600
## 685	0.6029048124	0.7041836262	0.450504033	-0.0118444989	-0.3346617998
## 686	-0.0960912649	-0.4151298430	0.270621904	0.0991297730	-0.3344966025
## 687	-1.1206911911	-0.5293168058	0.452734717	-0.4937297445	-0.0309741476
## 688	-0.3531231081	-0.1645845841	0.294717670	-0.2203156324	-0.6223068501
## 689	0.2724125651	-0.0543823116	0.027244345	-0.1242296702	-0.2065305444
## 690	-0.0066262778	-0.3338995282	0.306896601	0.1229324172	1.0562855719
## 691	1.2523450534	-1.1986818559	0.720382025	0.2858628185	-0.4613773736
## 692	0.7184847031	0.8605926697	-0.251177026	0.0714799204	0.0828769454
## 693	0.7309819522	0.0488883260	-0.096667015	0.7041013229	-0.1842514163
## 694	-0.9406691203	0.0395554064	-0.018588131	-0.0881332642	-0.4927879410
## 695	0.1496874679	-0.5118667800	0.766936668	-0.8907063920	0.0936889804
## 696	0.9600020998	0.7437287069	0.096967272	-1.3502836566	-0.4541870940
## 697	-1.1618687927	0.3672086150	0.560675830	0.0515385489	-0.1841189775
## 698	-0.0817924514	0.2094613980	-0.069752487	-0.3389226982	0.1179151993
## 699	0.1753630391	0.8001870054	0.535933201	0.2067816614	0.4131333416
## 700	-0.2087610449	-0.2718247237	-0.320424405	0.0318448604	0.3706455815
## 701	-1.9029270707	0.0133130846	-0.703876770	0.1111099515	0.1150085587
## 702	1.5185237804	0.3829580677	1.407962303	1.5201497051	0.0157566543
## 703	1.2269818778	0.8650016826	0.495686696	-0.8592491651	-0.3567022951
## 704	0.3155009358	-0.2631608436	0.400741435	0.0407990904	-0.0690015782
## 705	-0.6062952552	0.9728830435	0.590895385	0.1645449516	-0.0303490548
## 706	-0.6642793518	-0.4205493402	0.320999691	0.2424295294	0.8366439779
## 707	-0.2577283498	-0.2602225035	-0.201521555	0.0309154705	0.2804579386
## 708	-0.8807966045	1.5898166640	0.360773288	0.4136440840	0.9196175474
## 709	-0.6952617581	0.0654207169	0.244540345	0.0351300847	-0.1823164210
## 710	-0.2458176416	-0.1502488562	-0.632961611	0.1415417121	-0.2834294835
## 711	1.1426611594	-0.6173139599	1.053800136	1.4306643223	-0.4567587231
## 712	0.1620272102	0.2667677220	-0.708927415	-0.0226887529	-0.6718212588
## 713	0.0590424549	0.0990413397	-0.697488672	-0.0004939508	0.7876992800
## 714	-1.2302448816	0.0508582231	0.538629193	0.1080034864	0.0976703403
## 715	-0.3533027388	0.9784990536	-0.565899733	0.1460220503	-0.4103503651
## 716	0.5629558447	-0.4676271565	1.070372276	0.5235053879	-0.0682087455
## 717	-1.0680261114	0.9279998578	-0.388086412	1.2747908098	0.8740111580
## 718	1.2607005594	-0.1102876616	0.501411721	-0.1895526516	0.0561667937
## 719	-0.7241710320	-0.5317803095	0.549966512	0.2246511068	0.3843887004

## 720	-0.9105576873	-0.3914601533	0.331921855	-1.4430136392	0.6700271921
## 721	-0.1204942970	1.1150282280	-0.283608967	0.1842670362	-0.5065062834
## 722	-0.4148836856	-0.0804398376	-0.265068063	1.2745850744	0.8678711406
## 723	-0.4824116700	-0.1068154225	-0.675054373	-0.0928147576	0.6290326487
## 724	-0.8303900325	0.8643249207	0.008648944	0.0961929038	0.0975476854
## 725	0.5302237088	0.2396626223	-0.359907783	-0.2556928294	0.2315125248
## 726	-0.6361959372	0.6493385800	0.706509922	0.1249319749	0.1479511032
## 727	-0.3411050760	-0.1381140421	-0.114322607	0.1009552539	-0.1912975466
## 728	0.5940552013	0.0445201881	-0.672013900	0.0974536803	0.1601212314
## 729	-1.1503756328	-0.0186774631	-0.295728329	-0.1227818694	-0.4625590723
## 730	2.0246836568	0.6871242832	1.171469944	1.4345585396	-0.4708607977
## 731	0.3217419730	-1.6181635503	-0.949446658	0.3539353887	-0.2205849422
## 732	0.2726659532	0.1355082232	-0.755477937	-0.0427267193	0.2705699321
## 733	-0.8941133015	-0.2768557934	0.298751038	0.0828623035	0.7021203171
## 734	-0.2509221615	0.7239725840	0.143716152	0.7497771890	-0.3381074945
## 735	1.0232604275	-0.1961147902	0.390834928	0.3974074644	0.2511344982
## 736	-0.1566166219	-0.6476365142	0.908711191	-0.0133131439	-0.1740988930
## 737	-0.1724575620	-0.4683369212	0.625809308	0.4208088374	-0.0074760488
## 738	0.3067083791	-0.1029715303	-0.226710710	0.1373243517	0.0912682901
## 739	0.5355834979	0.1084282085	-0.611442594	-0.6709948654	0.5228210915
## 740	0.5442633911	-0.0078633865	-0.096294891	-0.0635498923	0.8102606053
## 741	0.1974315973	0.7690431551	0.726615504	-0.0371804761	-0.6750615306
## 742	0.4248216355	0.3665618511	1.203490014	-0.1781548365	-0.0788727377
## 743	-0.2006116878	0.5310755147	0.658420699	-0.1123861889	0.7870799841
## 744	0.3250177851	-0.2325756290	-0.487468930	-0.1197188981	-0.1908643332
## 745	-0.3763963698	0.4202581850	0.929693883	-0.0550169274	0.2524701192
## 746	0.2462912230	-1.3629538572	0.740142033	0.0510913397	0.1500826375
## 747	-0.4524898604	0.3033601707	-0.767434963	1.3159667121	-0.0575001001
## 748	1.0621240484	-0.3180190228	0.309481211	-0.2241835388	-0.6147536498
## 749	0.5145180096	-0.0199951451	-0.064454334	0.0123014897	0.8280235110
## 750	-2.2767821500	-0.2520521289	0.720583395	0.8054113304	0.3239569232
## 751	1.0336350771	-0.1584575314	0.064869444	-0.2442854841	0.9196752877
## 752	-2.4102962306	-0.0187291608	0.119735080	-1.0557118839	-0.3235469177
## 753	-0.2182971619	-0.3308368091	0.268254947	-0.3168252043	0.5992370000
## 754	-0.1009285063	-0.1385640457	-0.433956505	-0.3843056105	-0.2384230314
## 755	-0.0577780700	-0.1976274821	-0.057623599	0.0004804751	1.0028509464
## 756	-0.5206748300	-0.2233958695	0.849868606	0.0338847054	-0.2861806684
## 757	1.3314857292	-0.0872869014	0.346027874	-0.1776444455	-0.2916867330
## 758	-1.0414186886	0.9024373982	0.322023790	-1.5018979150	-0.6170395798
## 759	-0.4980615339	-0.8398817595	1.368843262	0.1369827428	0.1993788259
## 760	-0.2513961502	-0.2075807021	-0.507095537	0.0016615785	0.4358248785
## 761	-0.9056359256	-0.2116117163	0.053957769	-1.0621410040	-0.3841250952
## 762	-0.3156353701	0.8634882238	0.540782403	0.0088867430	0.1214386656
## 763	0.4087652050	0.0868941998	-0.603696515	0.0522831865	0.0543503481
## 764	0.3537915186	-0.0511432186	0.209917266	0.0274596552	0.9630790497
## 765	0.1619374414	0.7934926441	0.234405271	-0.2133421113	-0.4219868017
## 766	0.2347738537	0.0552129113	-0.637099663	-0.0096233370	0.3491288614
## 767	1.1473412624	-0.2133346192	-0.960368944	-1.1570245794	-0.5198332960
## 768	0.0407307535	-0.5818505630	0.992781400	0.4529103911	0.2720593921
## 769	0.9956260021	-0.1686708439	0.240226909	0.4098361977	0.1709149179
## 770	-0.0819339838	0.3570240034	-0.741847776	-0.0425063617	-0.1473871709
## 771	0.3656808098	0.1195595055	-0.751103746	-0.0073964710	0.7040434528
## 772	0.8445081383	-0.0314506107	0.214016962	0.4804331081	-0.4748341943
## 773	-1.3046930310	0.0626733512	-0.720879267	0.2549257641	0.8646960355

## 774	0.4430063085	-0.0021508014	-0.320761477	-0.0029187865	-0.4626647848
## 775	0.5581245998	-0.4835363909	-0.359616915	0.8820603453	0.2156626625
## 776	0.2216037784	1.0371263564	0.293228844	-0.1293908582	-0.2287356294
## 777	-0.4423859745	0.0349567447	0.008315070	-0.0724481357	0.0148518763
## 778	-0.0207344023	-0.2071615628	0.177613819	-0.0563171138	-0.1785138638
## 779	-0.3868309766	-0.3979319736	-0.705931195	1.0511918609	-0.2073097702
## 780	-1.1451394029	-1.4384976988	-1.241901671	-1.5194025087	-0.5184969046
## 781	-0.7796180637	-0.5582110492	0.530250869	-0.1303438406	-0.1677759548
## 782	0.5938286151	-1.1079080936	0.171375898	0.0278341373	0.4069278888
## 783	0.3172208857	-0.1044019072	-0.330645767	0.1320274981	0.2294573229
## 784	-1.3993770827	0.8679369932	-0.348921043	-0.1975792671	-0.0430497237
## 785	-1.0739927195	-0.2784330960	0.616030469	-0.0273464546	0.7976313642
## 786	1.8933997004	-0.1823619720	0.719378212	1.3799979726	-0.7126705243
## 787	0.5744028900	-1.6585575512	-0.244521169	0.0186168029	0.8828246248
## 788	-0.8716051868	-0.2716566109	-0.536950048	-0.0055254079	0.7347387360
## 789	-0.3689094673	0.1656248308	-0.689650614	0.0867449879	-0.1154716097
## 790	-1.1490084258	0.1298203005	-1.009312889	-0.0108402827	0.0781387113
## 791	0.1883381069	0.5130770124	1.105069985	-0.2065338199	0.3326897267
## 792	-0.2900801579	-0.3263635204	0.143471063	0.0493994630	-0.1456612301
## 793	-0.9835952576	0.3776930440	-0.904290008	-0.0811514970	-0.3733282332
## 794	0.4601325080	0.6798370252	0.594715235	-0.0921254468	0.4114151164
## 795	-0.2590529747	-0.7546714388	0.767181979	-0.2864456714	0.6629384390
## 796	0.3007503510	-0.5334007306	0.046763070	-0.1886380551	-0.0194799488
## 797	-0.4733583734	-0.2172155230	0.335317701	0.0076736580	0.3671279516
## 798	-0.6181521034	0.7485195373	0.678758938	0.1265243582	-0.6877083349
## 799	0.5057349802	0.0203979097	-0.557268839	0.0129384442	-0.6867607615
## 800	1.0976896619	-0.2743916538	-0.473623078	-0.4186889348	0.6818416996
## 801	-0.5972328713	-0.1045462893	0.358403099	-0.0241787824	0.2934285479
## 802	-1.1211487496	-0.3201166894	0.254325310	0.0765900922	0.1477453190
## 803	-0.4448884578	-0.2019474713	0.290441101	-0.0428358919	0.5949920337
## 804	-0.1472330188	-1.4283107115	-1.212443754	0.0181722821	0.4223348023
## 805	0.0481689727	-0.3921439446	-0.343797213	0.6954201636	-0.5525062252
## 806	-1.1620675393	-0.1017167466	0.236313026	-0.3372929890	-0.0608878692
## 807	0.5953055168	-0.5572735629	0.740357504	1.0465187137	0.9874424664
## 808	0.2443229604	-0.0489307640	0.389003581	0.0076706924	0.1899706210
## 809	-0.1320566952	1.4343213504	-0.397318321	-0.6018266344	-0.4021527238
## 810	-0.5137004630	-0.6048537201	-0.509531935	0.1509080277	0.6972178404
## 811	-0.4045245679	-0.6192820047	1.032273704	0.0497908346	-0.1780929230
## 812	0.4197887734	-0.4063734737	0.234588373	-0.0543065151	0.3978850724
## 813	0.0801099751	0.0804205656	-0.231560197	1.1625271521	-0.5586336817
## 814	0.3196271976	-0.7087631034	0.253008380	0.1268448814	-0.4465590037
## 815	0.1330567786	-0.0660560605	-0.996335788	-0.4609524516	0.0832208574
## 816	1.0315894143	0.0449936016	-0.710943460	-0.1253485316	-0.4812331519
## 817	0.4163863139	-0.3889117248	0.364832874	0.3717831216	0.2867735675
## 818	-0.5468764287	-0.0360433711	-0.204679040	0.1746901573	-0.8025220635
## 819	0.2321217330	0.0933625981	0.022534399	-0.1260339825	-0.4527150546
## 820	0.2191356564	0.7110234753	-0.523896529	-0.0949985574	0.5974368623
## 821	-0.6952654562	0.8142910127	0.491073704	-0.1400798430	-0.5282926206
## 822	0.0002377135	-0.1118543304	0.137570807	0.9885076009	0.6221589632
## 823	-0.2405638979	-0.1993657587	-0.233840422	0.1473409601	-0.4974164027
## 824	-0.4485117359	0.3582514668	-0.626422457	0.8311529549	-0.0310177180
## 825	0.5404361646	-0.2368618624	0.262149396	-0.1052809811	0.8332414081
## 826	0.5251838054	-0.0709687441	-0.103893786	0.9486814680	0.2034685944
## 827	0.0628173146	-0.0120983631	-0.391032811	1.1085381259	-0.1133935230

## 828	0.4656594113	0.9305426782	-0.313683210	-0.2566258597	0.0573249393
## 829	-0.6844698375	-0.2813037972	0.301979005	0.1055193581	-0.2583424886
## 830	-0.2144633884	-0.2415209549	0.196425101	-0.1238984705	0.6910744179
## 831	0.8075549164	-0.1903847575	0.576582136	-0.0590570037	-0.5579954818
## 832	-0.7812426026	-0.0457614343	0.257067668	0.1266554074	-0.2484143152
## 833	0.1032915051	-0.0371346436	0.930625378	-0.4055140989	-0.0576945472
## 834	0.2912416517	0.1741103001	-0.555712648	-0.0098505353	-0.1386555355
## 835	-0.0390912920	0.7327239518	0.565772033	0.3055128475	-0.6789971479
## 836	0.1594744573	-0.0833408585	-0.580928874	0.3646160398	0.7014068322
## 837	-1.0879003078	-0.0246290077	0.054689472	-0.1924112136	0.0438538819
## 838	-0.1357605684	0.1230478984	-0.775199034	-0.9369180601	0.7028314643
## 839	0.4845534229	-0.3982675424	-0.139494346	-0.9329751068	-0.1496650567
## 840	0.0999577598	-0.3458974383	0.398170115	-0.1597862500	-0.1097237861
## 841	-0.1235201047	-0.1423816543	0.321364250	-1.5329303186	-0.3851838400
## 842	1.0063769331	-0.1655259899	0.448471538	0.1028712030	-0.4133679350
## 843	-0.7010095764	0.6893775311	0.579609721	0.1027816220	-0.4019402674
## 844	-0.3746863253	-0.0922478279	0.436717183	-0.0091664013	-0.4005238090
## 845	0.1428401023	0.0064266681	0.137091891	-0.3485153449	0.6825682836
## 846	0.3889005829	0.2153290874	-0.780971484	0.2433244073	-0.2853081203
## 847	0.7395458258	0.7826589124	-0.052541873	0.3624824912	0.9215600847
## 848	-0.3153309650	-0.5118257033	0.757825553	0.0076752409	-0.6531031726
## 849	-0.0194024950	-0.1915170241	0.466799252	-0.1510501878	-0.0791656171
## 850	-0.5524122007	-0.0674710011	0.219206134	0.0101961153	0.0052484018
## 851	-0.3378558197	-0.7259044727	-0.192854055	-0.0412034842	-0.3641167610
## 852	0.0109071568	0.7296271765	-0.090513543	-0.0072443635	0.0129608078
## 853	-0.9621927323	-0.1042516852	0.304672696	-0.0832389723	-0.1624437703
## 854	0.8120818997	0.0230610385	-0.688699401	0.2332060956	0.1244271124
## 855	0.2565823960	0.0003899469	-0.565822995	0.0397015132	1.0274868751
## 856	-0.9534184191	0.0598424414	-0.243654658	-0.5216821265	-0.0471641395
## 857	1.1979679992	-0.2912669012	0.406294511	0.0142197722	-0.3515079190
## 858	-1.2413695316	0.1146383761	-0.643695721	0.5229070833	-0.4847724259
## 859	-0.5707747123	0.7408971955	-0.154731527	-0.0128747163	1.0064692379
## 860	0.6201528933	0.1463712271	-0.624771567	0.0924943807	0.7951612277
## 861	-0.0807540212	0.3132067885	-0.749250371	-0.0075693410	-0.5739038340
## 862	1.7090366283	0.4266332000	1.239166030	0.5709807334	-0.0464536936
## 863	-0.2410305385	0.0630085868	-0.669672444	0.1789104975	-0.1446662908
## 864	-0.2443978049	0.0964484038	-0.474937982	0.2139971857	-0.0079505504
## 865	-0.5494589907	0.9914856719	-0.521919442	0.1521400201	0.7140358565
## 866	0.6073694162	-0.6751036206	0.029016946	-0.1944270267	0.8229507860
## 867	0.0873348820	-1.7977783962	-0.171171356	-0.0375599406	-0.4563291556
## 868	-0.4378373476	-0.2805406599	-0.427600469	-0.0304898883	-0.4889103201
## 869	0.4450789891	-1.7008323619	-0.109614905	0.3073910700	-0.4325818891
## 870	0.0248580732	-0.0501383678	-0.926648838	-0.1865139185	-0.5719157349
## 871	0.1812428746	-1.7558523540	-0.280473620	-0.0141205680	0.1064584654
## 872	-0.6122675938	0.0367123776	0.279574537	0.0588178666	-0.0944962803
## 873	-0.0650473836	0.1106625389	0.319024840	1.1256605830	-0.4994256433
## 874	-0.6061159503	0.7702356849	0.728063125	0.0103417664	0.1862606052
## 875	0.7825992276	-0.8065156918	0.095193759	-0.4970614109	-0.1278512390
## 876	0.3225604311	0.1500417137	-0.833859060	-1.2118440201	0.2990003708
## 877	0.6982482901	-0.0792427949	0.052120217	-0.2772127751	0.4752880518
## 878	-0.7674347781	0.9113769246	0.095451545	-0.0545393693	-0.4168925010
## 879	0.0478412598	0.0469232616	-0.580936799	0.1634200473	0.4975687817
## 880	-1.3742011810	0.5654267512	0.770374707	-0.3263384518	0.9419459582
## 881	0.3304358362	-0.0675175899	0.534857522	0.0317473187	-0.5870194701

## 882	-0.2612452514	-0.1023696803	-0.604539857	0.1168959469	0.0954372372
## 883	1.3531086111	0.8517544189	0.090176969	-0.0386196759	-0.2568838416
## 884	-0.4218007827	0.3081439091	-0.664909278	0.1343329219	-0.1904503058
## 885	0.3885687925	0.9715466243	0.639395706	-0.5369924633	-0.1522659675
## 886	0.4889647308	-0.1274061671	0.188202037	0.2109997200	-0.1301963057
## 887	0.5662805127	0.0805353376	-0.595047517	0.2550802793	-0.5940444056
## 888	1.2265206813	0.8415174048	-0.455398802	0.0584302356	0.5097149480
## 889	0.5636209826	0.0250442675	-0.141797670	-2.0344979821	-0.5052434516
## 890	1.3106310494	-0.8493908633	-0.852938314	-0.1364304098	-0.0133014343
## 891	-0.7234329486	0.8536094475	-0.172948478	0.0030667129	0.4525707882
## 892	-0.4128385985	0.1590576807	-0.729983596	-0.4753903770	-0.0790840607
## 893	0.3564811926	0.2269583647	-0.651534601	0.2236152751	0.2576464181
## 894	0.1495489619	-0.2429948952	-0.905349505	-0.0377347054	0.2041859853
## 895	-1.6143181033	0.8464321668	-0.629013709	0.1170005478	0.0161477063
## 896	0.6599080388	0.1747997036	1.217116287	0.7751110255	-0.2457907977
## 897	-0.1468010852	-0.4589689827	0.815863750	0.2412635920	1.1249670268
## 898	-1.3616531839	-0.2964506118	0.315288905	-0.7670363053	0.6812820405
## 899	-0.4672810852	0.1340847629	-0.906008294	0.1377047503	0.1500185965
## 900	0.0181034151	-0.2449136422	-0.351227755	-0.0050586212	-0.1086147366
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## 909	-0.4688594213	0.0314032855	0.373059927	0.0862226039	0.1106150147
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## 911	-0.0157453406	0.1759289533	-0.586727733	-0.2172936445	-0.3898424538
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## 1100 0.4664137801 -1.1103845533 0.695361545 0.1854154180 -0.1294760886
## 1101 0.6037430377 -0.4274805973 -0.286907771 -0.1324861701 -0.3342726710
## 1102 0.1135875454 0.2578606051 -0.841407577 -0.8939582410 -0.3516713872
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## 1107 -0.4898656230 -0.0024030714 0.071370675 0.2580935157 -0.3514765928
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## 1313 -0.9195168175 1.0371929035 -0.427576288 0.1466725794 0.7013281237

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## 1314 0.3522529909 -0.5369503046 -0.707385514 0.4604684878 0.3137453011
## 1315 -0.3301846745 -0.7141830036 0.117275849 -0.1330448380 -0.2843838564
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## 1317 0.3066772073 0.0205103291 0.264180102 -0.1071467556 -0.6277609154
## 1318 0.0648624069 -0.3273617927 0.434604884 0.3182046407 -0.0405833015
## 1319 -0.6463347906 0.7047049526 0.588323900 -0.4683749334 -0.0737767118
## 1320 0.5995889249 -0.0430163884 0.267286058 -0.2741001665 -0.2349937852
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## 1322 0.0774178654 -0.2368078728 0.647986021 0.3939293246 -0.2835994814
## 1323 -0.6033025090 0.9302750157 0.025484761 0.2644521595 0.2918527772
## 1324 0.1378115897 0.9832350823 -0.267635675 0.0296439243 0.3331495468
## 1325 0.3790676159 0.0344105343 0.631920663 -1.4602796960 0.6385092164
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## 1368 0.3360413967 0.1366986546 -0.613760775 0.2896421984 -0.6548071129
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## 1393 -0.7130584908 0.7377356686 0.726984650 -0.2092486594 -0.4435418742
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## 1422 -0.7741950719 -0.8366768967 -1.010950399 -0.4492600976 1.0389309673
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## 1455 -0.1572371011 -0.0428602561 0.392463263 0.2705616573 0.2167823216
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## 2 -0.5741233524 0.4058530303 0.1635395742
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## 10	-0.0570633554	-0.6979176387	0.0651198600
## 11	0.0746070367	0.0151113801	-0.1003083264
## 12	-0.0771514186	-0.2498634212	0.2253064977
## 13	0.1265927448	-0.0072333426	-0.1048837886
## 14	-0.3813545184	0.0520814691	-0.1142641087
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## 16	-0.7743638476	-0.1083753922	0.0768861393
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## 40	0.5619141506	-0.1456265155	0.0612827134
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## 46	-0.5788189151	0.2431122541	0.0271817863
## 47	-0.2158090048	-0.1651615866	0.1462882236
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## 369	0.0119271665	0.3861531407	-0.0763245596
## 370	-0.1404859340	-0.1254438143	-0.0473935162
## 371	0.3784032499	-0.0634031829	-0.1145894982
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## 383 0.1327703964 -0.1991836758 -0.0871935581
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## 1305 -0.2026030954 -0.5827019374 0.1914997596
## 1306 -0.4051148357 0.2926127418 -0.0823419493
## 1307 -0.1107823064 -0.0343903992 0.1204849629
## 1308 0.0714213905 0.1385920852 -0.1349340669
## 1309 0.5305966472 -0.8469478577 0.1018631734
## 1310 0.1665793298 0.1239446052 0.1930196847
## 1311 -0.7485282300 -0.3443631827 -0.0863580255
## 1312 0.2752392531 -0.0689882483 0.1365953610
## 1313 -0.0433308472 0.0411947545 -0.0246643486
## 1314 0.0558645965 -0.0424051947 0.0810911339
## 1315 -0.4932844824 0.1285970181 0.0464350648
## 1316 0.3958967524 -0.4018088736 -0.0046743143
## 1317 -1.0242084267 0.0788360193 0.0417855394
## 1318 0.3821248359 -0.1560488277 -0.0780429325
## 1319 -0.0636296576 -0.4826556937 -0.3856234369
## 1320 -0.0202045438 0.4147452863 0.2050442264
## 1321 0.1856354362 0.1294924615 -0.1346333972
## 1322 -0.1268155767 0.2272099778 -0.0416046374
## 1323 -0.9251739168 0.1085339340 0.3236580178
## 1324 -0.0867504256 -0.0772314225 -0.0225295594
## 1325 0.3862748553 0.0770556108 -0.0661128239
## 1326 -0.0133783886 -0.0022026069 -0.2915008253
## 1327 -0.4585534761 0.1539499440 -0.5164516018
## 1328 0.0877040251 -0.1195270007 0.1791222109
## 1329 -0.3149719056 -0.3834673332 0.3292584151
## 1330 -0.3023433665 0.2254207756 0.0212895966
## 1331 -1.4227061773 0.1933693020 -0.0178370541
## 1332 -0.0673494137 0.2341658070 0.0041855639
## 1333 -0.1633965650 0.1851399068 0.0066573942
## 1334 -0.5380471138 0.1640034967 0.3971400063
## 1335 0.3461675520 -0.4105118683 -0.3509566414
## 1336 -0.2600889814 0.3084354565 0.3763506286
## 1337 0.1984093244 -0.1224170600 -0.0587594719
## 1338 0.3513438195 0.1190255558 -0.0979167503
## 1339 -0.0142424401 0.1420177509 0.1550980697
## 1340 0.1016287687 0.1160046113 0.0408136020
## 1341 -0.2524637144 0.0515502715 0.0114269359
## 1342 0.4264141084 0.1271755597 0.2844881573
## 1343 0.1446062484 0.3452389629 0.1156831538
## 1344 0.6470005942 -0.5310601519 -0.0270148677
## 1345 0.3430358824 -0.3514060248 0.3600323479
## 1346 -0.5204294125 0.2848259710 0.2284151065
## 1347 -0.8492415190 0.0348877181 0.0052914024
## 1348 -0.1687072445 0.3208129537 0.4682438522
## 1349 -0.8065861212 -0.0167058107 -0.2773805855
## 1350 -0.0439374942 0.1171467111 -0.0242154999
## 1351 -0.0911631848 -0.2497788809 -0.0778503695
## 1352 -0.0442724453 0.4215460444 -0.4087816205
## 1353 -0.0844635342 -0.1329836050 0.1713568021
## 1354 0.1950201199 0.2820688434 0.0360582023

```

```

## 1355 -0.3902170338 0.6636535914 -0.0893844768
## 1356 0.2932974198 -0.2961235435 0.0453529489
## 1357 0.1211603041 -0.2021602498 0.2008055125
## 1358 -0.0895797157 0.4917334964 -0.3551087859
## 1359 -0.1292835572 0.0033752131 -0.0814324233
## 1360 0.0130615051 0.1221145294 -0.2737818213
## 1361 -0.1225652991 0.2736238269 -0.2746472913
## 1362 0.0296041431 -0.7018698653 -0.1098183871
## 1363 -0.1047906434 0.0939326917 0.0782319295
## 1364 0.0081716179 0.0462361223 0.0213395089
## 1365 -0.4443410287 -0.1483680611 -0.1664184457
## 1366 0.2696831203 0.1120044133 0.0997417780
## 1367 0.2031405939 0.0304084847 -0.0015858075
## 1368 0.2918059388 -0.0210655315 0.0461086749
## 1369 -0.0613206142 -0.3966141459 0.0676773419
## 1370 -0.3508683979 0.1248289759 -0.5334840462
## 1371 -0.0634304256 -0.0860257331 0.1105695856
## 1372 -0.5519525360 0.6625150535 0.0916254427
## 1373 -0.1812792405 0.2378486904 0.2240277787
## 1374 1.3357295858 0.0152342720 0.6152380748
## 1375 0.0149300017 -0.6982670572 -0.5690874651
## 1376 0.2600527595 -0.0975585473 -0.0292451522
## 1377 0.4106562317 -0.0980176537 -0.3598312742
## 1378 -0.4620368363 -0.7544320956 0.0814191824
## 1379 0.2046120529 -0.5230497814 0.1297439419
## 1380 -0.2549413955 0.2422723903 -0.0317528638
## 1381 -0.1300090175 0.1461404645 0.0677502981
## 1382 0.0738404734 -0.0676397401 -0.0074777075
## 1383 -0.0893134016 0.0191514801 -0.1146321526
## 1384 0.0737723587 0.2716122129 -0.1377356518
## 1385 0.7541203344 0.5882355312 0.1101710944
## 1386 0.2239233165 0.2928543764 0.2707291418
## 1387 -0.1153254656 -0.6850034333 -0.1124879097
## 1388 0.0402345554 0.0778981324 0.1440667917
## 1389 0.4528768373 0.1231415356 -0.1197633002
## 1390 -0.4474719737 -0.2597599039 0.2534722739
## 1391 0.1123313362 0.0777056389 -0.0633952246
## 1392 1.1256488644 -0.9907586035 -0.1351337866
## 1393 -0.3979354237 -0.0941185171 0.0556401091
## 1394 -0.2210488468 -0.2241115101 0.2325686554
## 1395 0.0149389796 0.3825293943 -0.4154265984
## 1396 -0.2624085344 -0.1472045106 -0.0140325151
## 1397 -0.6708416685 0.1483100220 -0.0130945555
## 1398 -0.6986996386 0.3498720229 0.5154186944
## 1399 -0.3871884559 -0.0137454277 -0.0544794176
## 1400 -0.7486010927 0.2456047604 0.3616574211
## 1401 0.0725130930 0.3053550864 -0.0427957627
## 1402 0.1250985217 -0.6695832432 0.0201559495
## 1403 -0.0943945131 0.2358788506 0.1323101597
## 1404 0.1573507901 0.1907455532 0.1629896387
## 1405 1.0321328138 0.1805624584 0.2249669847
## 1406 -0.3729671615 0.1478755648 -0.0821008020
## 1407 -0.3416879890 0.6244155027 0.2891794840
## 1408 -0.0784568229 0.0793842212 0.2520540205

```

```

## 1409 0.2308908065 -0.1902537669 -0.1145199018
## 1410 -0.3657812295 0.1279676620 -0.0529742869
## 1411 -0.2461349597 -0.4209311735 0.0157998487
## 1412 0.2475880387 -0.2313052998 0.0952846755
## 1413 0.4179860432 -0.3024473696 -0.2697487010
## 1414 0.4428465231 -0.2845943329 -0.2402977923
## 1415 -0.2350102159 -0.6413229918 0.2140219044
## 1416 -0.1281603723 0.2745302186 -0.0063611864
## 1417 0.3547330677 -0.3687793291 0.1898884630
## 1418 0.1173064410 -0.0886408780 -0.1555023623
## 1419 -0.4646937583 -0.0517243071 0.1515804765
## 1420 -0.0798068506 0.2721599090 0.1762681887
## 1421 0.5634538188 -0.0163034653 -0.0539635321
## 1422 -0.9669708333 0.1975592866 -0.1974353803
## 1423 -0.1463813488 0.2501208761 -0.1192376594
## 1424 0.1451159963 -0.2355085613 -0.1387279806
## 1425 -0.0564566193 0.0536498849 0.2052621013
## 1426 0.2652565445 -0.0732038042 0.1946324884
## 1427 0.4150370051 0.1561759547 -0.1743765525
## 1428 0.4936891868 0.0879015981 -0.0203889653
## 1429 -0.0870194592 -0.0777457995 -0.0562567611
## 1430 -0.0207009888 -0.5493719266 0.3007554070
## 1431 -0.4163828989 -0.0800627940 -0.3946443948
## 1432 0.2999721549 -0.0535311775 -0.0312107578
## 1433 -0.1125040853 0.2282360256 -0.4542719786
## 1434 -0.0164042424 -0.0139051691 0.2134338388
## 1435 0.8500884485 -0.0173298602 -0.3638752586
## 1436 -0.2332169395 0.5307753318 -0.0093155020
## 1437 0.0687615718 -0.1560599413 -0.0686728449
## 1438 -0.2617242510 -0.1077511470 -0.0044962983
## 1439 0.4575517271 -0.0664501634 0.0165740291
## 1440 0.0040910409 0.0712025944 0.4296497271
## 1441 0.7156503453 -0.5431728903 0.1789835363
## 1442 -0.7977565764 0.3642996785 -0.1315901152
## 1443 -0.0711797878 0.2945652926 -0.3413296664
## 1444 -0.2641391172 0.7401570336 0.0475795450
## 1445 -0.8060830171 -0.0851783590 -0.0845402340
## 1446 0.3302816716 0.5711753772 0.1689668048
## 1447 -0.4603159887 0.0589118049 -0.1671445270
## 1448 -0.3067897540 -0.6022426014 0.0285642299
## 1449 -0.2041038475 -0.3137770077 -0.4516254633
## 1450 0.0635970510 0.1438186352 0.0206128648
## 1451 -0.2754269794 0.5972247282 0.3100283744
## 1452 -0.4715874280 -0.0069671852 0.0456974198
## 1453 0.0377895905 0.4354886889 -0.0925366374
## 1454 0.3248395344 0.5347881353 -0.0652120290
## 1455 0.1240875942 0.6972160728 0.1251524239
## 1456 -0.1521763427 -0.1854020040 -0.0563813468
## 1457 0.8352746971 0.5036191669 0.0235284626
## 1458 1.0796591451 -0.8670638721 0.0274666420
## 1459 -0.1375645065 0.1214007772 -0.0881873951
## 1460 0.1881857529 -0.1120906135 0.3237516155
## 1461 -0.0901753255 0.0375711020 -0.2464019996
## 1462 -0.0211063691 -0.3604776751 -0.1066869234

```

```
## 1463 0.4816518165 0.3316270313 0.3599024309
## 1464 0.0463540583 0.0102612699 -0.5220679298
## 1465 0.7757147115 -0.0424544799 -0.1567985148
## 1466 0.8551759699 -0.6077012274 0.4879003716
## 1467 -0.8979242184 0.3016268145 0.0339476388
## 1468 0.0867470010 0.3152679616 0.0887162021
## 1469 -0.1561622431 -0.3306963289 0.0395568720
## 1470 -0.1833048656 0.1983493321 0.2895619834
```

```
tabmeansPC <- aggregate(attr_pca[,2:32],by=list(Attrition=emp_churn$Attrition),mean)
tabmeansPC
```

```
## Attrition PC1 PC2 PC3 PC4 PC5 PC6
## 1 1 -0.2358468 0.1205492 0.09443259 -0.1608933 -0.02787021 0.3211468
## 2 2 1.2270002 -0.6271610 -0.49128853 0.8370525 0.14499566 -1.6707764
## PC7 PC8 PC9 PC10 PC11 PC12
## 1 0.02978478 -0.02101785 0.02871087 0.06547717 0.08106875 -0.01409802
## 2 -0.15495625 0.10934604 -0.14936919 -0.34064707 -0.42176273 0.07334539
## PC13 PC14 PC15 PC16 PC17 PC18
## 1 -0.01055116 -0.01142564 0.00663363 0.01215656 -0.005809809 -0.06397739
## 2 0.05489275 0.05944224 -0.03451167 -0.06324489 0.030225714 0.33284441
## PC19 PC20 PC21 PC22 PC23 PC24
## 1 0.01654493 0.0488318 -0.01189708 -0.07100669 -0.1280555 -0.008134154
## 2 -0.08607555 -0.2540490 0.06189495 0.36941458 0.6662126 0.042318195
## PC25 PC26 PC27 PC28 PC29 PC30
## 1 0.09576619 -0.005327049 0.005868672 -0.002393622 -0.002531043 0.003700281
## 2 -0.49822665 0.027714141 -0.030531950 0.012452896 0.013167834 -0.019250827
## PC31
## 1 0.001580296
## 2 -0.008221540
```

```
tabfmeans <- t(tabmeansPC[, -1])
tabfmeans
```

```
## [,1] [,2]
## PC1 -0.235846754 1.22700020
## PC2 0.120549194 -0.62716099
## PC3 0.094432588 -0.49128853
## PC4 -0.160893309 0.83705253
## PC5 -0.027870212 0.14499566
## PC6 0.321146799 -1.67077639
## PC7 0.029784777 -0.15495625
## PC8 -0.021017853 0.10934604
## PC9 0.028710866 -0.14936919
## PC10 0.065477174 -0.34064707
## PC11 0.081068749 -0.42176273
## PC12 -0.014098019 0.07334539
## PC13 -0.010551160 0.05489275
## PC14 -0.011425638 0.05944224
## PC15 0.006633630 -0.03451167
## PC16 0.012156561 -0.06324489
## PC17 -0.005809809 0.03022571
## PC18 -0.063977393 0.33284441
```

```
## PC19  0.016544935 -0.08607555
## PC20  0.048831796 -0.25404896
## PC21 -0.011897083  0.06189495
## PC22 -0.071006694  0.36941458
## PC23 -0.128055472  0.66621264
## PC24 -0.008134154  0.04231820
## PC25  0.095766193 -0.49822665
## PC26 -0.005327049  0.02771414
## PC27  0.005868672 -0.03053195
## PC28 -0.002393622  0.01245290
## PC29 -0.002531043  0.01316783
## PC30  0.003700281 -0.01925083
## PC31  0.001580296 -0.00822154
```

```
colnames(tabfmeans) <- t(as.vector(tabmeansPC[1]))
tabfmeans
```

```
##          1          2
## PC1 -0.235846754  1.22700020
## PC2  0.120549194 -0.62716099
## PC3  0.094432588 -0.49128853
## PC4 -0.160893309  0.83705253
## PC5 -0.027870212  0.14499566
## PC6  0.321146799 -1.67077639
## PC7  0.029784777 -0.15495625
## PC8 -0.021017853  0.10934604
## PC9  0.028710866 -0.14936919
## PC10 0.065477174 -0.34064707
## PC11 0.081068749 -0.42176273
## PC12 -0.014098019  0.07334539
## PC13 -0.010551160  0.05489275
## PC14 -0.011425638  0.05944224
## PC15  0.006633630 -0.03451167
## PC16  0.012156561 -0.06324489
## PC17 -0.005809809  0.03022571
## PC18 -0.063977393  0.33284441
## PC19  0.016544935 -0.08607555
## PC20  0.048831796 -0.25404896
## PC21 -0.011897083  0.06189495
## PC22 -0.071006694  0.36941458
## PC23 -0.128055472  0.66621264
## PC24 -0.008134154  0.04231820
## PC25  0.095766193 -0.49822665
## PC26 -0.005327049  0.02771414
## PC27  0.005868672 -0.03053195
## PC28 -0.002393622  0.01245290
## PC29 -0.002531043  0.01316783
## PC30  0.003700281 -0.01925083
## PC31  0.001580296 -0.00822154
```

```
tabfsdsPC <- aggregate(attr_pca[,2:32],by=list(Attrition=emp_churn$Attrition),sd)
tabfsds <- t(tabfsdsPC[, -1])
colnames(tabfsds) <- t(as.vector(tabfsdsPC[1]))
tabfsds
```

```
##           1           2
## PC1  2.1156902 2.0741832
## PC2  1.3489061 1.3845619
## PC3  1.3296584 1.3269765
## PC4  1.2787190 1.1846921
## PC5  1.2524788 1.3133022
## PC6  0.8648886 0.9270290
## PC7  1.0805079 1.1400333
## PC8  1.0699374 1.0643503
## PC9  1.0619481 1.0468299
## PC10 1.0178377 1.0661442
## PC11 0.9974756 1.0746287
## PC12 1.0093591 1.0509238
## PC13 1.0078836 0.9772051
## PC14 1.0088097 0.9559582
## PC15 0.9803439 0.9945292
## PC16 0.9598806 1.0433317
## PC17 0.9651840 0.9900238
## PC18 0.9344176 0.9721287
## PC19 0.9252324 1.0095725
## PC20 0.9288123 0.9137814
## PC21 0.9153085 0.9527836
## PC22 0.8559084 0.9030647
## PC23 0.7188171 0.7455831
## PC24 0.7277594 0.6812182
## PC25 0.6699421 0.6403684
## PC26 0.5720833 0.5618576
## PC27 0.5779037 0.4836457
## PC28 0.5491826 0.3993794
## PC29 0.4766511 0.4581532
## PC30 0.4454585 0.4572805
## PC31 0.3830376 0.3301910
```

```
#performing t-test on first 5 PCA
t.test(PC1~emp_churn$Attrition,data=attr_pca)
```

```
##
## Welch Two Sample t-test
##
## data: PC1 by emp_churn$Attrition
## t = -9.9115, df = 337.25, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.753162 -1.172532
## sample estimates:
## mean in group 1 mean in group 2
## -0.2358468 1.2270002
```

```
t.test(PC2~emp_churn$Attrition,data=attr_pca)
```

```
##
## Welch Two Sample t-test
##
```

```
## data: PC2 by emp_churn$Attrition
## t = 7.6455, df = 327.88, p-value = 2.325e-13
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 0.5553203 0.9401001
## sample estimates:
## mean in group 1 mean in group 2
## 0.1205492 -0.6271610
```

```
t.test(PC3~emp_churn$Attrition,data=attr_pca)
```

```
##
## Welch Two Sample t-test
##
## data: PC3 by emp_churn$Attrition
## t = 6.2213, df = 333.5, p-value = 1.477e-09
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 0.4005237 0.7709185
## sample estimates:
## mean in group 1 mean in group 2
## 0.09443259 -0.49128853
```

```
t.test(PC4~emp_churn$Attrition,data=attr_pca)
```

```
##
## Welch Two Sample t-test
##
## data: PC4 by emp_churn$Attrition
## t = -11.722, df = 350.17, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.1653871 -0.8305046
## sample estimates:
## mean in group 1 mean in group 2
## -0.1608933 0.8370525
```

```
t.test(PC5~emp_churn$Attrition,data=attr_pca)
```

```
##
## Welch Two Sample t-test
##
## data: PC5 by emp_churn$Attrition
## t = -1.8695, df = 323.83, p-value = 0.06245
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.354773465 0.009041726
## sample estimates:
## mean in group 1 mean in group 2
## -0.02787021 0.14499566
```

```
#performing f-test on first 5 PCA
```

```
var.test(PC1~emp_churn$Attrition,data=attr_pca)
```

```
##
```

```
## F test to compare two variances
```

```
##
```

```
## data: PC1 by emp_churn$Attrition
```

```
## F = 1.0404, num df = 1232, denom df = 236, p-value = 0.7116
```

```
## alternative hypothesis: true ratio of variances is not equal to 1
```

```
## 95 percent confidence interval:
```

```
## 0.8484098 1.2589440
```

```
## sample estimates:
```

```
## ratio of variances
```

```
## 1.040423
```

```
var.test(PC2~emp_churn$Attrition,data=attr_pca)
```

```
##
```

```
## F test to compare two variances
```

```
##
```

```
## data: PC2 by emp_churn$Attrition
```

```
## F = 0.94916, num df = 1232, denom df = 236, p-value = 0.5859
```

```
## alternative hypothesis: true ratio of variances is not equal to 1
```

```
## 95 percent confidence interval:
```

```
## 0.7739884 1.1485110
```

```
## sample estimates:
```

```
## ratio of variances
```

```
## 0.9491584
```

```
var.test(PC3~emp_churn$Attrition,data=attr_pca)
```

```
##
```

```
## F test to compare two variances
```

```
##
```

```
## data: PC3 by emp_churn$Attrition
```

```
## F = 1.004, num df = 1232, denom df = 236, p-value = 0.9861
```

```
## alternative hypothesis: true ratio of variances is not equal to 1
```

```
## 95 percent confidence interval:
```

```
## 0.8187465 1.2149269
```

```
## sample estimates:
```

```
## ratio of variances
```

```
## 1.004046
```

```
var.test(PC4~emp_churn$Attrition,data=attr_pca)
```

```
##
```

```
## F test to compare two variances
```

```
##
```

```
## data: PC4 by emp_churn$Attrition
```

```
## F = 1.165, num df = 1232, denom df = 236, p-value = 0.1414
```

```
## alternative hypothesis: true ratio of variances is not equal to 1
```



```
## 95 percent confidence interval:
##  0.950025 1.409729
## sample estimates:
## ratio of variances
##          1.165036
```

```
var.test(PC5~emp_churn$Attrition,data=attr_pca)
```

```
##
## F test to compare two variances
##
## data:  PC5 by emp_churn$Attrition
## F = 0.90952, num df = 1232, denom df = 236, p-value = 0.329
## alternative hypothesis: true ratio of variances is not equal to 1
## 95 percent confidence interval:
##  0.741664 1.100545
## sample estimates:
## ratio of variances
##          0.9095182
```