

Class 8: PCA Mini Project

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It is important to consider scalling your data before analysis such as PCA.

For example:

```
head(mtcars)
```

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

```
apply(mtcars, 2, sd)
```

mpg	cyl	disp	hp	drat	wt
6.0269481	1.7859216	123.9386938	68.5628685	0.5346787	0.9784574
qsec	vs	am	gear	carb	
1.7869432	0.5040161	0.4989909	0.7378041	1.6152000	

```
x<- scale(mtcars)
```

```
head(x)
```

	mpg	cyl	disp	hp	drat
Mazda RX4	0.1508848	-0.1049878	-0.57061982	-0.5350928	0.5675137
Mazda RX4 Wag	0.1508848	-0.1049878	-0.57061982	-0.5350928	0.5675137
Datsun 710	0.4495434	-1.2248578	-0.99018209	-0.7830405	0.4739996
Hornet 4 Drive	0.2172534	-0.1049878	0.22009369	-0.5350928	-0.9661175
Hornet Sportabout	-0.2307345	1.0148821	1.04308123	0.4129422	-0.8351978

Valiant	-0.3302874	-0.1049878	-0.04616698	-0.6080186	-1.5646078
	wt	qsec	vs	am	gear
Mazda RX4	-0.610399567	-0.7771651	-0.8680278	1.1899014	0.4235542
Mazda RX4 Wag	-0.349785269	-0.4637808	-0.8680278	1.1899014	0.4235542
Datsun 710	-0.917004624	0.4260068	1.1160357	1.1899014	0.4235542
Hornet 4 Drive	-0.002299538	0.8904872	1.1160357	-0.8141431	-0.9318192
Hornet Sportabout	0.227654255	-0.4637808	-0.8680278	-0.8141431	-0.9318192
Valiant	0.248094592	1.3269868	1.1160357	-0.8141431	-0.9318192
	carb				
Mazda RX4	0.7352031				
Mazda RX4 Wag	0.7352031				
Datsun 710	-1.1221521				
Hornet 4 Drive	-1.1221521				
Hornet Sportabout	-0.5030337				
Valiant	-1.1221521				

```
round(colMeans(x),2)
```

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
0	0	0	0	0	0	0	0	0	0	0

Key-point: It is usually always a good idea to scale your data before to PCA...

```
fna.data <- "WisconsinCancer.csv"
wisc.df <- read.csv(fna.data, row.names=1)
head(wisc.df)
```

	diagnosis	radius_mean	texture_mean	perimeter_mean	area_mean
842302	M	17.99	10.38	122.80	1001.0
842517	M	20.57	17.77	132.90	1326.0
84300903	M	19.69	21.25	130.00	1203.0
84348301	M	11.42	20.38	77.58	386.1
84358402	M	20.29	14.34	135.10	1297.0
843786	M	12.45	15.70	82.57	477.1
	smoothness_mean	compactness_mean	concavity_mean	concave.points_mean	
842302	0.11840	0.27760	0.3001	0.14710	
842517	0.08474	0.07864	0.0869	0.07017	
84300903	0.10960	0.15990	0.1974	0.12790	
84348301	0.14250	0.28390	0.2414	0.10520	
84358402	0.10030	0.13280	0.1980	0.10430	
843786	0.12780	0.17000	0.1578	0.08089	

	symmetry_mean	fractal_dimension_mean	radius_se	texture_se	perimeter_se
842302	0.2419	0.07871	1.0950	0.9053	8.589
842517	0.1812	0.05667	0.5435	0.7339	3.398
84300903	0.2069	0.05999	0.7456	0.7869	4.585
84348301	0.2597	0.09744	0.4956	1.1560	3.445
84358402	0.1809	0.05883	0.7572	0.7813	5.438
843786	0.2087	0.07613	0.3345	0.8902	2.217
	area_se	smoothness_se	compactness_se	concavity_se	concave.points_se
842302	153.40	0.006399	0.04904	0.05373	0.01587
842517	74.08	0.005225	0.01308	0.01860	0.01340
84300903	94.03	0.006150	0.04006	0.03832	0.02058
84348301	27.23	0.009110	0.07458	0.05661	0.01867
84358402	94.44	0.011490	0.02461	0.05688	0.01885
843786	27.19	0.007510	0.03345	0.03672	0.01137
	symmetry_se	fractal_dimension_se	radius_worst	texture_worst	
842302	0.03003	0.006193	25.38	17.33	
842517	0.01389	0.003532	24.99	23.41	
84300903	0.02250	0.004571	23.57	25.53	
84348301	0.05963	0.009208	14.91	26.50	
84358402	0.01756	0.005115	22.54	16.67	
843786	0.02165	0.005082	15.47	23.75	
	perimeter_worst	area_worst	smoothness_worst	compactness_worst	
842302	184.60	2019.0	0.1622	0.6656	
842517	158.80	1956.0	0.1238	0.1866	
84300903	152.50	1709.0	0.1444	0.4245	
84348301	98.87	567.7	0.2098	0.8663	
84358402	152.20	1575.0	0.1374	0.2050	
843786	103.40	741.6	0.1791	0.5249	
	concavity_worst	concave.points_worst	symmetry_worst		
842302	0.7119	0.2654	0.4601		
842517	0.2416	0.1860	0.2750		
84300903	0.4504	0.2430	0.3613		
84348301	0.6869	0.2575	0.6638		
84358402	0.4000	0.1625	0.2364		
843786	0.5355	0.1741	0.3985		
	fractal_dimension_worst				
842302	0.11890				
842517	0.08902				
84300903	0.08758				
84348301	0.17300				
84358402	0.07678				
843786	0.12440				

```
diagnosis<-wisc.df[,1]
table(diagnosis)
```

```
diagnosis
  B   M
357 212
```

essentially the expert answer that we will compare our analysis results to:

```
# We can use -1 here to remove the first column
wisc.data<- wisc.df[,-1]
head(wisc.data)
```

	radius_mean	texture_mean	perimeter_mean	area_mean	smoothness_mean
842302	17.99	10.38	122.80	1001.0	0.11840
842517	20.57	17.77	132.90	1326.0	0.08474
84300903	19.69	21.25	130.00	1203.0	0.10960
84348301	11.42	20.38	77.58	386.1	0.14250
84358402	20.29	14.34	135.10	1297.0	0.10030
843786	12.45	15.70	82.57	477.1	0.12780

	compactness_mean	concavity_mean	concave.points_mean	symmetry_mean
842302	0.27760	0.3001	0.14710	0.2419
842517	0.07864	0.0869	0.07017	0.1812
84300903	0.15990	0.1974	0.12790	0.2069
84348301	0.28390	0.2414	0.10520	0.2597
84358402	0.13280	0.1980	0.10430	0.1809
843786	0.17000	0.1578	0.08089	0.2087

	fractal_dimension_mean	radius_se	texture_se	perimeter_se	area_se
842302	0.07871	1.0950	0.9053	8.589	153.40
842517	0.05667	0.5435	0.7339	3.398	74.08
84300903	0.05999	0.7456	0.7869	4.585	94.03
84348301	0.09744	0.4956	1.1560	3.445	27.23
84358402	0.05883	0.7572	0.7813	5.438	94.44
843786	0.07613	0.3345	0.8902	2.217	27.19

	smoothness_se	compactness_se	concavity_se	concave.points_se
842302	0.006399	0.04904	0.05373	0.01587
842517	0.005225	0.01308	0.01860	0.01340
84300903	0.006150	0.04006	0.03832	0.02058
84348301	0.009110	0.07458	0.05661	0.01867
84358402	0.011490	0.02461	0.05688	0.01885
843786	0.007510	0.03345	0.03672	0.01137

	symmetry_se	fractal_dimension_se	radius_worst	texture_worst
842302	0.03003	0.006193	25.38	17.33
842517	0.01389	0.003532	24.99	23.41
84300903	0.02250	0.004571	23.57	25.53
84348301	0.05963	0.009208	14.91	26.50
84358402	0.01756	0.005115	22.54	16.67
843786	0.02165	0.005082	15.47	23.75

	perimeter_worst	area_worst	smoothness_worst	compactness_worst
842302	184.60	2019.0	0.1622	0.6656
842517	158.80	1956.0	0.1238	0.1866
84300903	152.50	1709.0	0.1444	0.4245
84348301	98.87	567.7	0.2098	0.8663
84358402	152.20	1575.0	0.1374	0.2050
843786	103.40	741.6	0.1791	0.5249

	concavity_worst	concave.points_worst	symmetry_worst
842302	0.7119	0.2654	0.4601
842517	0.2416	0.1860	0.2750
84300903	0.4504	0.2430	0.3613
84348301	0.6869	0.2575	0.6638
84358402	0.4000	0.1625	0.2364
843786	0.5355	0.1741	0.3985

	fractal_dimension_worst
842302	0.11890
842517	0.08902
84300903	0.08758
84348301	0.17300
84358402	0.07678
843786	0.12440

```
diagnosis<-c(diagnosis)
```

Exploratory data analysis

Q1. How many observations are in this dataset?

```
num_observations <- length(rownames(data))
print(num_observations)
```

```
[1] 0
```

Q2. How many of the observations have a malignant diagnosis?

Q3. How many variables/features in the data are suffixed with `_mean`?

```
length(grep("_mean", colnames(wisc.data)) )
```

```
[1] 10
```

Principal Component Analysis

```
wisc.pr<-prcomp(wisc.data, scale=T)
summary(wisc.pr)
```

Importance of components:

	PC1	PC2	PC3	PC4	PC5	PC6	PC7
Standard deviation	3.6444	2.3857	1.67867	1.40735	1.28403	1.09880	0.82172
Proportion of Variance	0.4427	0.1897	0.09393	0.06602	0.05496	0.04025	0.02251
Cumulative Proportion	0.4427	0.6324	0.72636	0.79239	0.84734	0.88759	0.91010

	PC8	PC9	PC10	PC11	PC12	PC13	PC14
Standard deviation	0.69037	0.6457	0.59219	0.5421	0.51104	0.49128	0.39624
Proportion of Variance	0.01589	0.0139	0.01169	0.0098	0.00871	0.00805	0.00523
Cumulative Proportion	0.92598	0.9399	0.95157	0.9614	0.97007	0.97812	0.98335

	PC15	PC16	PC17	PC18	PC19	PC20	PC21
Standard deviation	0.30681	0.28260	0.24372	0.22939	0.22244	0.17652	0.1731
Proportion of Variance	0.00314	0.00266	0.00198	0.00175	0.00165	0.00104	0.0010
Cumulative Proportion	0.98649	0.98915	0.99113	0.99288	0.99453	0.99557	0.9966

	PC22	PC23	PC24	PC25	PC26	PC27	PC28
Standard deviation	0.16565	0.15602	0.1344	0.12442	0.09043	0.08307	0.03987
Proportion of Variance	0.00091	0.00081	0.0006	0.00052	0.00027	0.00023	0.00005
Cumulative Proportion	0.99749	0.99830	0.9989	0.99942	0.99969	0.99992	0.99997

	PC29	PC30
Standard deviation	0.02736	0.01153
Proportion of Variance	0.00002	0.00000
Cumulative Proportion	1.00000	1.00000

Main “PC score plot”, “PC1 vs PC2 plot”

See what is in our PCA result object:

```
attributes(wisc.pr)
```

```
$names
[1] "sdev"      "rotation" "center"    "scale"     "x"
```

```
$class
[1] "prcomp"
```

```
head
```

```
function (x, ...)
UseMethod("head")
<bytecode: 0x7fd1386151d8>
<environment: namespace:utils>
```

```
wisc.pr$x
```

	PC1	PC2	PC3	PC4	PC5
842302	-9.18475521	-1.946870030	-1.122178766	3.630536408	1.1940594778
842517	-2.38570263	3.764859063	-0.528827374	1.117280773	-0.6212283647
84300903	-5.72885549	1.074228589	-0.551262540	0.911280840	0.1769302185
84348301	-7.11669126	-10.266555635	-3.229947535	0.152412923	2.9582754313
84358402	-3.93184247	1.946358977	1.388544953	2.938054169	-0.5462667446
843786	-2.37815462	-3.946456430	-2.932296681	0.940209586	1.0551135428
844359	-2.23691506	2.687666414	-1.638471247	0.149208600	-0.0403240371
84458202	-2.14141428	-2.338186649	-0.871180715	-0.126931171	1.4261817833
844981	-3.17213315	-3.388831138	-3.117243065	-0.600768440	1.5209521144
84501001	-6.34616284	-7.720380945	-4.338098744	-3.372234369	-1.7087596141
845636	0.80970132	2.656937673	-0.488400053	-1.671096176	-0.2755690974
84610002	-2.64876984	-0.066509405	-1.525113359	0.051216497	-0.3316592904
846226	-8.17783882	-2.698602007	5.725193241	-1.111278747	-1.0425531111
846381	-0.34182514	0.967428026	1.715661982	-0.594479872	-0.4675990720
84667401	-4.33856172	-4.856809832	-2.813639832	-1.453278303	-1.2889287269
84799002	-4.07207318	-2.974443983	-3.122526655	-2.455909915	0.4079831402
848406	-0.22985277	1.563382114	-0.801813642	-0.650010973	0.4942761390
84862001	-4.41412695	-1.417423150	-2.268323145	-0.186108659	1.4226094459
849014	-4.94435304	4.110716528	-0.314472408	-0.088128974	0.0566653163
8510426	1.23597583	0.188049490	-0.592761930	1.594942716	0.4417655273
8510653	1.57677384	-0.572304625	-1.799863016	1.124286473	0.3949222435
8510824	3.55420904	-1.661487969	0.450790799	2.071941593	0.4903150736
8511133	-4.72904972	-3.302058265	-1.465247427	2.039355666	0.0261970715
851509	-4.20482441	5.123858059	-0.751740573	-0.861951843	0.4705538779
852552	-4.94528075	1.542395143	-1.711687827	0.046718059	1.7377012054

852631	-7.09232236	-2.016835734	-0.028984132	2.585675482	2.0375470912
852763	-3.50717666	-2.169715994	-3.891122637	-1.294620549	0.0681580703
852781	-3.06136021	1.874902631	2.579478032	0.128371462	0.1165625639
852973	-4.00374127	-0.536769860	-2.759197831	-1.896718595	0.5252107652
853201	-1.71380176	1.522365502	0.146058578	1.909706071	-0.5356519265
853401	-6.05411853	0.756511800	-0.348932376	-1.063281958	0.7454493340
853612	-2.89968469	-4.001774373	-2.998823809	-0.325030387	0.8546038749
85382601	-4.55077848	-0.337239419	-0.753637681	-0.699714306	1.5471839770
854002	-4.98621538	1.131593223	-2.575118337	-1.216191663	-0.6693259394
854039	-2.98271631	-0.757756497	-3.490690279	0.054212589	-0.1669530505
854253	-2.76393718	0.354044421	-1.895295337	-0.533786198	0.8832432812
854268	-1.29505925	-0.912393466	-1.574383382	-1.042249570	-0.4143571251
854941	3.74601730	1.412230504	1.730784885	-0.564945456	-0.0802687991
855133	0.99719148	3.348346731	4.301788720	-0.560716245	0.4639645611
855138	-0.76459136	-0.885464837	-2.702540362	-0.274538185	-0.8097169787
855167	2.14906252	1.922300194	-1.179446370	-1.112219391	-0.4480774771
855563	0.09324934	-2.258764532	-1.903051997	-1.441039161	1.7038647386
855625	-9.08001023	-2.016898441	2.139343894	-1.068304028	-0.7972299505
856106	-0.98958304	-0.984064148	-2.308702241	-0.276582144	0.6399478981
85638502	0.29328849	0.136978564	-3.299029123	-1.008898141	0.0224910920
857010	-5.37620991	0.134758404	-1.677366657	1.506369463	-0.1518645822
85713702	4.57790860	-1.482915508	0.042037623	0.295968708	0.7132249498
85715	-1.69851237	-2.350203862	-3.075383081	-0.065962912	1.0555376469
857155	2.13456708	-0.095745364	-1.491099878	1.120077655	0.0679774156
857156	1.56610099	1.207370855	-0.368834570	-1.474331566	-0.1725985690
857343	3.53979091	1.281368110	1.017315805	-0.607621596	0.2194428358
857373	3.15503795	1.687473796	-0.495857416	0.193841543	-1.4386516886
857374	3.44745515	0.497780720	-0.152383875	0.574980496	0.0522688899
857392	-3.29964761	1.129943574	0.825666100	0.981853085	1.1942122234
857438	0.67402621	2.114549137	-1.394992302	-1.042221635	-0.2416042153
85759902	2.85564577	-0.152588874	0.428557855	0.482635650	1.5092086632
857637	-4.64465207	2.308301508	-0.728168145	0.639379104	1.1573061797
857793	-2.17494916	-0.971261438	-1.942179421	-0.736670095	0.3954358798
857810	3.71818738	1.786070097	1.278807604	0.115464169	0.5258196576
858477	4.13232693	-2.401679261	-1.241865694	2.046545722	1.1646276518
858970	2.38373822	-2.755233814	1.213018303	1.792911568	3.3352233901
858981	2.57661610	-3.135912650	1.399049169	-0.763194998	2.7816479152
858986	-4.75492832	-3.009032875	-0.166094576	-0.605295233	-1.1406976712
859196	2.31209785	-3.265116721	2.793766025	0.565229094	0.3814984103
85922302	-1.69012080	-1.539322116	-1.798262954	-1.389367072	1.2116088977
859283	-1.81071217	-0.722104815	-1.464960560	-1.197676214	1.4267861675
859464	2.78347559	-2.308617372	0.472309720	-1.605747397	1.6114402596
859465	3.51555502	0.657730736	0.590855071	-0.010793189	-0.0205709988

859471	-4.32619605	-9.194435552	1.491650337	0.319666023	-4.7240139158
859487	3.25841241	0.937013647	0.204949679	1.089113223	0.4599452518
859575	-2.70221851	4.433240985	0.307075192	0.488263229	-0.3721675732
859711	0.30758513	-7.381317396	3.815728542	2.131680166	-2.7083196796
859717	-5.49886689	-0.937500513	-2.208188675	-1.522456429	-0.9240784393
859983	0.36139121	-0.119633821	-2.039161544	1.057953093	-0.7564437850
8610175	2.62766457	0.696696349	-0.583428281	0.337884296	-0.4671344130
8610404	-1.42691206	1.965372092	1.110961327	0.752248984	0.5394071070
8610629	0.83378424	-1.963876860	0.789737653	3.434609101	2.3524809639
8610637	-6.22541880	-0.919260690	0.089748341	2.536926544	-0.0620812262
8610862	-11.65845644	-4.744442593	2.004115633	0.318768543	3.3883795562
8610908	2.01980045	0.254675746	-0.647302452	0.059199217	0.0547996477
8611103	1.63694460	-1.714440587	0.433824539	-1.526622964	1.7678261507
8611161	-1.16643527	-2.512305286	-1.904043397	0.637750373	-0.2359734956
8611555	-10.75977535	2.255997858	0.038801648	-0.389043228	-1.1862447821
8611792	-5.03038488	-0.773728357	2.679979922	-1.665039071	0.3113456414
8612080	2.17255269	-0.496441169	-0.948257444	0.207037052	0.8845677371
8612399	-3.28534463	1.666770480	0.146802675	0.437108401	1.3673667927
86135501	-0.60707378	-0.162071919	1.635935419	-1.113531850	0.5403198078
86135502	-3.58041324	2.204721916	-1.703037100	-0.800589442	-0.3650009185
861597	0.93333687	-0.926885919	-0.040128345	-1.352209082	-0.0648850467
861598	-1.25849730	-1.014684255	-0.080521995	2.049531496	-0.1373994614
861648	1.58686770	1.618232954	0.309726682	-1.091038889	-0.0537268234
861799	-0.25227559	0.530884425	0.588809736	-0.110441165	-0.4283042881
861853	2.84492835	2.891103732	0.527524677	0.598290300	-1.4344348070
862009	1.96322268	0.964308498	-0.081136715	-0.093998029	0.5495403920
862028	-2.77342525	-0.557509977	-0.605238702	0.499390598	-0.4994662006
86208	-4.39236314	2.121640892	0.579000549	-0.776729960	0.3035669597
86211	2.58980407	-0.213446120	1.034701089	0.661423462	0.5402889624
862261	3.90090576	-1.189020421	1.550616806	-0.934952821	0.7074978792
862485	2.81575365	-0.367560567	-1.350247556	1.736886645	-0.2840715251
862548	-0.61573908	-0.638349988	-0.199743121	-1.096533937	-0.1185853914
862717	0.43247968	1.390820523	-0.082646762	-1.933578565	0.0344302397
862722	4.55102442	-3.525683788	-0.215074716	1.090925794	2.7559240651
862965	3.44515217	1.423370040	-0.088646005	-1.709223842	0.1065229834
862980	2.11410008	-1.847747782	-0.556184595	-0.463948150	0.4744968363
862989	2.68898618	-1.418813334	0.968298772	-0.002857011	1.2554137475
863030	-3.21109134	-4.043198634	-2.712997305	1.327457319	0.2214783192
863031	0.74861266	-1.796058175	-0.567866143	-0.560006237	0.9322757208
863270	3.15622889	1.034838878	-1.489373670	-0.592646911	-0.5136339075
86355	-13.04464395	-0.980650357	0.598286247	1.471636087	0.5993856696
864018	2.22672053	-0.666823902	-1.090600727	-1.077353762	0.2988661489
864033	2.49063954	-2.596401708	1.668257671	0.632929090	1.1557305724

86408	0.10325957	-2.278139015	2.107708229	-0.351536677	-0.6219347413
86409	-3.58813694	-3.922881433	2.045207163	-0.231562584	-5.4604591892
864292	1.34776279	-3.553098748	1.730668471	-0.046949434	0.3449474850
864496	2.50791098	-3.248461200	-1.686140767	1.188915291	0.4551865326
864685	2.04423086	-0.304616836	-0.533369397	-0.489411120	0.0678524055
864726	2.09522559	-3.663872062	3.629007335	1.538433194	-2.2345636748
864729	-3.10779316	-1.568009873	-2.611638159	0.617924024	1.1807403791
864877	-4.95236801	-2.382749650	-1.933405900	-0.610304229	0.1480794337
865128	-0.85026612	2.304707468	0.566963050	-0.043586897	2.0922055990
865137	2.96339173	-0.371179883	-2.064716427	2.070684315	-0.1628943517
86517	-3.33120209	1.324392029	0.727373652	1.002316780	0.9328861016
865423	-12.88327621	-2.314585873	6.323133317	1.940496559	3.1574494112
865432	0.77006610	0.064052860	-1.133411514	2.508256103	-0.0202192366
865468	2.20057925	0.734958544	0.266845303	-0.037586447	-2.9314571580
86561	3.14064881	1.875758557	-0.669779705	0.303065257	-0.4077106627
866083	0.63831885	0.910564828	-2.140840449	-2.139033534	0.4287624850
866203	-1.91744627	3.534971966	1.253821297	0.335703696	-0.5885511025
866458	-1.40762980	-1.303782215	0.640864876	1.885297508	0.0362201276
866674	-4.63960895	1.480714297	-1.169651383	-1.217534223	-0.1779160105
866714	1.87581684	-1.421979452	-1.069870821	1.707830258	0.8837714798
8670	-1.43081046	1.048681220	-1.260901861	0.532720319	0.6261456617
86730502	-1.35143790	1.153126842	-1.208729712	-0.827378497	0.9859398192
867387	0.70849143	1.566853657	-0.669405084	1.685780647	-0.3390165106
867739	-2.16950708	2.823776101	-0.561613332	-0.660250673	0.4745525764
868202	1.97510247	0.419018755	-0.380240597	-1.737931013	0.3083668329
868223	2.59850310	0.481911436	1.870726668	-0.437633248	-0.0160686443
868682	3.25514318	0.417953651	-0.691197447	0.659273518	-0.1214593563
868826	-3.77870160	-0.859625218	3.667773435	2.046019895	2.1818702714
868871	1.99028348	-1.328186508	1.134246527	2.044634146	0.2519061287
868999	5.01059989	-0.574194748	-0.841697543	2.167755281	0.8812268193
869104	-1.34383800	1.273650278	0.555354894	0.574366142	0.4704353120
869218	2.45380972	-0.897665441	0.352823033	-0.367668079	1.1033160270
869224	1.83566648	0.090946742	-1.444010288	0.671957291	0.1360791853
869254	4.34266862	0.892786708	0.638694049	0.425252734	-0.9556015217
869476	0.73216868	-3.698927716	0.657926113	2.234161633	0.3361716375
869691	-2.39788795	-4.833735642	-1.027253164	0.342615376	2.3897699977
86973701	-0.39275308	-1.082115915	2.245629588	-0.461452569	-1.6901413981
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8710441	-7.08707084	-12.562140869	7.352238887	1.224264329	-7.4838486945
87106	3.74011364	-0.250281306	-0.097297641	1.930448497	1.0426741051

8711002	0.96832079	-0.944113582	-0.890028129	1.095568323	0.6129630899
8711003	2.41659356	-0.005547532	-0.797678511	-0.070829748	0.0772419138
8711202	-4.09718264	0.378470806	1.445046044	0.701751100	-0.0006644087
8711216	0.75094226	3.067949187	1.447907672	-0.952587697	-0.8911446262
871122	3.65143365	0.674055644	-0.906188637	1.509832817	-0.2935538042
871149	4.67609710	1.102886823	-0.257081973	1.245379911	-0.4142538767
8711561	0.59725624	-1.784081072	1.480433343	-0.177715866	1.5878294278
8711803	-3.38435289	2.908477953	3.004594027	2.825801426	-0.5078995524
871201	-6.14447970	2.015878994	-1.564766888	0.970791871	0.3360742118
8712064	1.32386648	-1.468002337	0.847675513	-1.141761837	0.0477797028
8712289	-5.48932277	4.162167037	-0.600732185	0.149568094	-0.6250164993
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87127	4.38287625	-0.006866240	-0.947274735	2.795545994	-0.4453390247
8712729	-1.21256768	2.037246395	0.979834026	0.238756035	-0.0856932721
8712766	-5.06520424	1.783582969	1.172615291	-0.693122956	-0.6480853131
8712853	1.97596280	1.841159394	-0.277115927	0.549266608	0.2067144089
87139402	2.51266554	-0.114151857	-0.496186180	2.352277364	0.6887689035
87163	0.94665494	1.683272444	-0.350877607	-0.576703303	0.3412418770
87164	-2.81688978	-1.263990953	-2.151251366	2.706077979	0.0400092558
871641	3.48092345	-1.618268077	2.673117328	1.252511728	0.5984548400
871642	4.65463399	0.222718846	1.557987797	0.510643007	1.8952731945
872113	5.34691339	-1.025855214	0.324700222	1.367479190	0.9178537547
872608	-1.16986842	-7.008319996	4.268106508	-0.332347396	-2.9068870248
87281702	-2.95370292	-0.705800822	-1.041419103	-0.521690540	-1.4123928506
873357	4.97132782	3.383227983	0.439451738	-1.576183104	-1.0328868993
873586	4.06045289	1.245070643	0.573972801	1.703893823	-0.6153230400
873592	-9.50430706	5.598558052	-0.636679193	0.224024081	0.4061861282
873593	-8.99924714	-0.580520281	-3.131959404	-0.861511555	-0.0456818494
873701	-0.75821134	1.607118481	-1.513763762	-1.075114038	0.0491913464
873843	2.65702172	-0.539461132	1.705514033	1.200694830	-2.3526717446
873885	0.38967611	0.988372689	-2.582896564	-0.783837500	-0.7336657053
874158	3.88564657	-0.815354285	1.014824328	0.824193256	2.1316971080
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874373	2.83339783	0.398379162	-0.347139642	0.812532578	0.0392461561
874662	3.30737348	-0.155604280	0.541002917	-0.512033374	1.7863073596
874839	3.35435293	1.102762109	0.151956099	0.827459950	-0.7336137377
874858	-6.51738201	-8.004126824	-0.326136731	-2.769361777	-1.5975261925
875093	1.71622508	0.542688019	3.295475582	-0.087253972	-0.0840995519
875099	5.56084294	0.477427493	4.123834207	-2.350422636	1.0515357688
875263	-1.77809695	-2.774146213	-0.941934046	-3.071649469	0.6945219915
87556202	-2.60918908	-1.560049030	-0.217995141	-0.492342056	-1.1034164923
875878	2.81656023	0.969257722	-0.382255094	0.463382873	-0.5513017565
875938	-2.49624245	-2.276479790	1.318318594	-1.179800454	1.8980601601

877159	-1.27590451	2.441111044	2.464148795	-0.129776372	-2.1534113490
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877500	-1.25557034	-0.382057094	-3.834946034	-0.716289870	0.6505837048
877501	1.47213604	-0.116787496	-0.214479145	-0.490377374	0.7132142476
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87880	-4.55058603	-3.083925626	-2.268408346	-2.189192919	3.4583122917
87930	0.78050321	-0.652275325	-0.643091145	0.214279700	0.4372951306
879523	0.22289648	0.701204504	-2.268765765	0.997753580	-0.6459195774
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8810158	-0.31416180	-2.075734301	-2.081480386	-1.067600421	0.2176779819
8810436	2.05738166	2.470613908	-1.460433790	1.866439637	-1.8369468233
881046502	-4.80474158	3.026440019	2.741606351	0.283114502	-0.1937940455
8810528	2.99607430	0.396429212	-0.595941573	-0.207862040	-0.5678601226
8810703	-12.27421974	7.536778599	10.103533703	5.189703614	3.8491201120
881094802	-3.36923202	-2.585550416	7.085840019	-0.367171665	-2.7681374358
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8810987	-1.31690973	-2.152585453	-1.785061911	-0.010160725	-0.1670054272
8811523	0.38841453	-2.274796314	0.626780574	-0.429349217	-0.1192752256
8811779	2.75450931	-1.085879226	1.705737291	-0.516377016	-0.8063132292
8811842	-4.93923501	2.845820436	0.913075404	0.334889341	0.4829010175
88119002	-4.29429880	4.662172958	-0.006834994	-3.650173128	-0.1785458275
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8812818	0.96634003	-0.438052741	-1.446423567	1.988611655	0.0938834761
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8812877	-1.80166175	-0.166314618	-2.626288708	-0.643175553	0.5214235661
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88143502	0.82531310	1.249148354	0.267725157	2.308595141	1.0139214702
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88147202	1.45604019	0.201549415	-1.097912687	-2.004011649	-1.4772623926
881861	-2.75314552	-3.462726769	-2.471875866	-1.007392449	-0.1549996143
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88199202	4.01560693	1.353056834	-0.360155815	-2.633480577	-0.7345986421
88203002	3.67318128	1.290493562	0.424237023	-4.597664394	0.7402578603
88206102	-3.31340866	3.935689268	-0.205273062	-2.116361469	-0.9691280654
882488	4.03305870	-1.161524089	0.189581014	0.939690169	0.5651016963
88249602	2.33218128	1.347793816	0.232482459	-1.211847619	-0.0515295475
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883539	4.47364832	1.739598699	-0.887426246	0.763980319	-0.6046080177
883852	-1.32145867	-4.785266054	-0.661952674	-1.020298051	-2.1481343740
88411702	1.84846341	1.582735509	1.262806090	-0.801397452	-0.7107861777
884180	-3.79222888	1.025330459	0.897845626	-0.759791922	0.7571812276
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884448	3.22593164	1.171043084	0.264431658	-1.002062865	-0.8936812738
884626	-1.02499890	-2.359186109	-1.615464155	1.144955805	-4.1408350383
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88725602	-3.68807276	-1.064709236	-3.512498419	-4.769000799	0.8017786584
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8910499	2.01038350	1.102516460	1.336847795	-1.614259260	-0.6911126965
8910506	2.28233204	-0.009485293	-0.450043551	0.295519714	0.8031608330
8910720	0.73909276	-3.149749158	1.468565664	-0.314616789	-0.9468561582
8910721	4.50260070	3.166486414	-0.187896260	0.390816184	-1.3839888843
8910748	3.15597737	-0.409941090	-1.107842420	1.969885542	0.0585356134
8910988	-7.66940121	3.072602737	1.480656591	0.551916238	-0.8854262609
8910996	3.63593673	-1.588189625	0.715650110	0.669795890	1.5759444757
8911163	-0.33704893	3.141609173	-0.115619749	-1.813699425	-0.0352621513
8911164	1.27546111	-0.848306563	3.067369195	1.165472001	2.6757698121
8911230	4.34219338	0.321694999	0.388133185	1.106173921	1.5020111044
8911670	-0.01741547	3.456302110	0.306650981	0.475151814	-0.4003842967
8911800	3.48935577	2.631766723	-0.072124181	-0.307707020	-0.5245541387
8911834	1.86490793	0.901271186	-0.870402828	1.027910020	0.2316732520
8912049	-4.95590744	1.339944038	-1.455772409	-1.466907423	0.6119216765
8912055	2.46855062	0.137904923	1.793307382	1.546266616	0.6967490495
89122	-3.78173258	1.900235409	-1.742708503	0.391939754	0.3389814297

8912280	-2.63493731	-0.576647607	-1.992946242	0.272309546	-1.1957159307
8912284	1.37147827	-0.005800358	1.547927203	0.583925361	-3.0022368265
8912521	4.13524399	1.375298123	0.877276691	-0.059803630	0.5970712749
8912909	0.68633639	-1.693519506	1.025310679	-0.874708540	-2.1727638053
8913	4.30833870	1.976746804	-0.251085558	1.573526614	-1.9816674884
8913049	-0.40295486	-3.720160654	4.582436940	0.215721385	-0.8070907499
89143601	3.00096526	-0.353848878	1.232930128	-0.716826045	1.3114083326
89143602	-3.13125303	-4.269702670	5.861122345	0.596058607	-4.1973346842
8915	0.41746954	0.807865734	-1.092330348	-0.089650892	-0.2568431865
891670	1.41897459	-1.392752638	-0.836251021	1.104473313	0.3640802623
891703	2.86806475	0.268408338	-0.468574962	-0.245287741	0.5574288140
891716	3.36288672	0.806890637	-0.806369895	1.662223414	-0.0505417655
891923	3.31208587	1.440908382	-0.583119519	1.783361666	0.0192555651
891936	4.76551701	0.542484530	0.893082182	1.729539559	-1.0008319932
892189	2.38378528	0.823391074	1.982219343	0.055206875	0.5052838506
892214	2.78464581	2.530807159	-0.883257225	-0.259446372	-1.6463839898
892399	3.39085817	-0.753301131	1.770235939	-0.276430081	1.0849483019
892438	-6.58444233	1.483557076	0.361022239	1.187401386	0.1208047145
892604	1.45405111	-0.591422478	1.145332613	0.078947827	-1.0867825344
89263202	-7.17661843	-0.055097580	2.011148288	0.082703332	0.6651964595
892657	3.57568917	-0.890799182	0.261257526	-0.253872371	0.5990662990
89296	3.05434514	0.179055836	0.621226832	0.261168580	-0.8959467593
893061	3.07173303	0.305789373	1.258146621	-2.206685025	0.6058786167
89344	3.85015201	1.523386003	-1.143503482	0.814334011	-0.4926180820
89346	5.38551771	-0.555766489	0.559577694	0.471440565	0.3994468273
893526	4.65358767	3.062692587	-0.075942289	1.507190163	-1.2716964644
893548	4.02400169	2.540671520	0.352906609	1.513056174	-0.6669118526
893783	3.34487880	0.068502773	-0.269955756	-0.627084568	1.1246979202
89382601	3.29694105	3.135950089	0.148761476	0.741837997	-0.3941040424
89382602	2.13452598	0.004388987	-0.055090483	1.786540911	-1.2993021931
893988	4.03446724	0.240486452	-1.326959165	2.438086999	-0.2771454326
894047	3.76210430	-4.394333943	3.946735131	-0.306998155	4.7854456445
894089	4.86695697	2.337158334	-0.168146877	0.694278950	-0.8202171408
894090	4.74307511	1.796820963	0.169570993	1.550246788	-0.5346670358
894326	-1.89365006	2.390134936	-1.675017462	0.711402276	-0.3830648490
894329	-1.57154834	-6.503377021	2.165253786	0.030049446	-1.0524851013
894335	4.02308037	1.400973753	3.183698584	0.019535088	-0.1794905224
894604	1.29372783	-3.467757378	1.108552569	0.766005357	-0.2103251163
894618	-1.83322742	4.317723823	0.316406925	0.996312898	-0.2544647520
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89511502	2.88472980	0.464323069	-0.475325102	0.761631787	0.8524662824

89524	3.14688506	1.769691255	-0.035802185	1.505914596	-0.3529936101
895299	4.62431058	1.834004631	0.064174505	0.094110332	-0.7997554706
8953902	-2.24853190	0.348229535	-1.063814825	-0.231555660	1.0036176419
895633	-2.10594822	-1.120987593	1.773597643	0.262444379	0.9599662498
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896864	0.52723271	-1.264758769	-0.919631937	0.429094010	-0.5602900988
897132	3.21067592	-1.102473082	1.610564041	-0.486005834	3.4562087554
897137	4.38256677	0.760434627	-0.400245248	0.586341023	0.3762481427
897374	3.80666840	0.909118626	0.442778081	-0.949587668	0.3513268837
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89827	2.07535283	-1.804931340	-1.166053416	1.141225718	0.4132078419
898431	-4.97078859	1.331400687	0.870211875	-1.290995242	0.9611232170
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898677	2.42941383	-3.444173357	3.453905770	0.493225969	1.0448376978
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89869	1.20553704	1.315886497	-0.929922572	1.703291193	-0.7180879050
898690	3.32315522	-0.474753848	-0.897496041	0.812772706	0.5848648524
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899667	-6.17684877	-5.103514894	0.520682438	0.939912167	0.6059916654
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9010333	2.99060189	-1.629958015	2.554470244	1.344703963	-0.0407045185
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905189	1.14199209	1.960446508	-1.239628958	1.477776286	-0.4837568556
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906878	0.37085180	-0.113512779	-0.997485893	-0.155233295	-1.4746581730
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9111805	-2.50954497	2.526584455	0.797500590	-0.822950476	0.4288865709
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911202	2.83380799	1.017230750	-1.485323075	0.456004436	-0.1146041549

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9112594	3.17177797	2.073908798	0.074834422	-1.868185223	0.2091427763
9112712	4.08348433	0.484283961	0.630808963	-3.399741429	0.0182086861
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911296202	-16.30488665	7.769016888	6.229933870	2.326026514	1.7079531344
9113156	2.55786437	2.491852880	0.170162861	-2.107901855	-0.9783779753
911320501	2.96627878	0.068786611	-0.777727248	-0.046625788	-0.2280062503
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9113239	-1.36913518	-2.108156394	-0.852969723	-0.723132156	-3.8210171185
9113455	0.41729731	-0.116417262	-0.535671262	-0.363878888	-1.5121265752
9113514	3.83502421	-0.898388162	0.699948069	-0.219746414	1.3359873635
9113538	-5.92575082	-1.227216861	1.720074272	-0.473165926	-2.8810043579
911366	-0.64491119	-3.422999542	0.607750202	0.234280083	1.2086350824
9113778	2.68148698	-1.442286469	0.339105123	-0.244601788	0.7919949893
9113816	2.03986918	0.902461858	2.840741857	-2.883294431	1.0158156443
911384	1.39806620	1.770668244	-1.478260847	1.306959009	-1.8037276563
9113846	3.53330636	1.245758018	3.382434941	-4.661948944	1.8740788308
911391	1.98877953	-1.897792693	-2.029212586	0.911103793	-1.2304717877
911408	1.99642872	0.206189711	-1.639882150	1.038296903	-0.9034160493
911654	0.52020039	0.972512103	-0.323850426	-0.543521127	-1.4281800593
911673	3.16958159	2.087215768	-0.977945244	0.386756799	-1.4182276802
911685	2.20077374	-1.284908734	-0.886619084	0.700486694	-0.1796630638
911916	-3.82107090	-2.303209735	0.027521977	0.669669644	-1.2886313605
912193	2.98286009	0.672747298	-0.589970772	-0.593827781	-0.4615631694
91227	2.47887396	2.361880555	-0.432234246	-0.383132558	-1.0372087673
912519	1.27099312	-0.509385643	-2.237023334	1.670906156	0.1175030515
912558	2.23319191	1.297562775	-0.900644424	0.433712494	-0.1827652155
912600	0.05613371	0.227183495	-2.253532782	2.708217480	-0.8010805172
913063	-2.31535334	-4.385275755	1.776847691	0.968563355	-2.6430509823
913102	2.28232306	2.464672105	-0.820466562	-0.040767325	-1.0918206156
913505	-4.75043499	1.488114177	-1.252648906	-0.052540766	0.0965398306
913512	1.72479328	-0.997300316	-0.080167877	1.063711106	1.4343549437
913535	0.74112965	2.449879331	-1.995953713	-0.457537180	-0.2610613824
91376701	2.89176621	0.977084588	-0.804935982	-1.719266485	0.0289580691
91376702	1.65306732	4.551659142	0.751661685	1.646873743	-1.4018393993
914062	-3.10079133	1.235066483	1.286223339	0.608113830	1.1212732858
914101	4.06069761	0.560461075	2.174771231	1.374658804	-0.1992898120
914102	2.79087498	1.076940539	0.843799658	-1.109231547	-0.0048653882
914333	1.47362330	1.589695437	0.319710133	-0.798129881	-0.1579186103
914366	0.22919297	-1.514570755	-2.214334625	0.555081328	-0.2509810467
914580	2.55101378	0.763228924	-1.607988258	0.059875184	-0.5054003068

914769	-3.71243855	1.057755506	0.521494703	1.395773631	-0.3682903454
91485	-5.09036286	2.017432706	-0.708746074	-0.082722167	-0.3834794788
914862	0.60008810	0.837717560	-0.686437977	1.154318132	-0.9815689274
91504	-2.78794673	-3.382584454	-0.752414277	-1.332009710	1.5841377430
91505	1.40753273	-1.504446838	-0.353584900	1.120754558	1.8100776146
915143	-7.25279714	5.490904302	1.909245947	1.894050092	-0.3960294570
915186	-1.29772469	-7.723057325	-0.688309017	2.890184346	2.0135831354
915276	-1.07574673	-8.287483337	0.433810751	1.952471847	1.3946448821
91544001	1.24866183	-1.594281055	-1.355282076	0.126156474	-0.0233994859
91544002	1.25582341	-4.113567176	-0.412366931	1.053246923	1.1385251781
915452	1.16550969	1.664229389	-0.737229323	1.760617958	-0.7377031703
915460	-4.09054331	-2.800463137	-0.506987325	-1.975580106	-0.1327084112
91550	1.88597978	-1.670721680	0.119692299	1.217144238	-2.5658122684
915664	2.76500279	2.159148972	-0.021077623	1.608860107	-0.7157489170
915691	-2.22503669	-1.939927827	-2.283594176	-0.339561903	0.5363853531
915940	1.13058210	1.409761524	-0.564556376	1.993206904	-0.5280229629
91594602	0.73312738	1.941988438	-0.274994234	-0.337526159	-0.6604100570
916221	2.33161916	-0.789451973	-0.349735677	0.440471990	1.4212995780
916799	-2.69485257	1.942001189	-0.959719996	0.459104689	0.5839845732
916838	-3.37604410	2.331377578	-1.200875536	0.553126259	-0.5274167311
917062	0.19969487	-1.075413752	-0.672557052	0.627893020	0.8395117260
917080	1.17499204	-1.010481061	-0.711142576	1.065131254	1.4206509043
917092	1.29150016	-4.959860548	0.345622908	2.238565182	3.8371535988
91762702	-8.62316838	3.456410638	-0.178899380	1.176129200	0.0228851505
91789	4.42556234	0.785345015	-0.473002900	-0.696004578	-0.1037131678
917896	0.61929383	-0.635789842	-0.488421490	-0.015141135	0.1063131129
917897	3.24945659	-1.284794677	-0.218284421	0.307537632	0.0993416275
91805	3.34997942	-2.670950443	-1.777523046	1.388364375	0.3541295063
91813701	0.85904712	-0.096763381	-2.811570840	0.184161855	0.6295214724
91813702	3.15384692	0.870776432	-2.193784489	1.448593014	-0.4310565911
918192	-0.34622347	-1.539870352	2.843951628	1.908132516	0.5713316529
918465	2.45924278	-0.600319751	-1.170435277	2.209110148	0.6913036191
91858	1.52875558	-0.404861554	0.603933344	-0.346866279	0.7853562456
91903901	1.77202587	-0.803503014	-2.026135257	-0.686728928	0.6155504122
91903902	2.67808519	1.483403662	-1.740162222	1.022590841	-0.2972072410
91930402	-4.02489378	2.938844225	1.658026507	0.224969353	0.5131432277
919537	2.13447312	-1.517245623	0.178807901	-0.500336469	-0.6824469628
919555	-5.16086993	2.380108987	-0.421906048	0.882650977	0.2092240560
91979701	-0.53546080	-0.380380451	-0.442745212	-1.877719723	-0.2266699710
919812	-0.34282174	-3.531373815	0.069607554	-1.549307121	1.9552004887
921092	4.19339024	-2.365311059	1.325978010	-2.037710987	1.7603677988
921362	1.14182718	-5.594535868	1.299893249	-2.186325923	-0.7649016389
921385	1.66401100	-2.387517361	1.500928782	0.875181074	-0.4841195986

921386	-1.01082308	-1.091429307	-0.632142163	-1.756972472	-1.0459061568
921644	1.29978604	1.819814057	0.372979316	-1.846544182	-0.1994515741
922296	2.37134219	1.680097929	0.384190094	-3.014076570	0.0382130321
922297	1.66440651	0.213774641	-0.147942249	-0.196878516	-0.5559910407
922576	1.92598353	1.136739705	0.477781900	-1.156482818	0.2021640255
922577	4.23349159	-0.184110499	-0.326131445	0.587786142	0.7040073381
922840	2.67551655	-2.313756961	-0.053800867	0.340150357	-0.4502519824
923169	3.83312511	-0.495813665	0.922428047	-0.551386509	-0.0799652223
923465	2.54919727	-0.228129228	1.412934778	-1.969057256	1.4550448383
923748	4.69079604	0.766803238	1.542607509	-0.778334167	0.7842069600
923780	2.02325691	-1.260133116	0.504482203	-1.134529125	0.1141621816
924084	2.89340232	1.450359601	0.779859803	-2.967836815	0.3568359788
924342	3.49912218	-1.799249342	2.764024589	-0.865545694	0.6248149194
924632	2.15201013	0.829339088	0.564300199	-3.009108230	-0.5653278607
924934	2.05327740	-1.615038205	1.837342797	-3.110797801	-0.2108571316
924964	3.87388097	-1.083301553	1.858308794	-0.433358360	1.6859553304
925236	4.06028949	-0.122061034	3.235925374	-3.466133119	2.2399371646
925277	0.09858059	0.213372093	0.388587548	-1.011820230	-2.9864399976
925291	1.08841850	-1.291711328	1.428122289	-3.369171941	-0.9465087393
925292	0.48134743	0.177863190	1.031200235	-2.008512908	-0.3268156112
925311	4.86602793	2.129232607	3.411187296	-5.129474909	0.4884909563
925622	-5.91241029	-3.479575000	-3.259923297	-3.914141413	-1.7148732547
926125	-8.73365338	0.573350185	0.896301447	0.384811315	-0.6784463175
926424	-6.43365455	3.573672989	2.457324373	1.176279049	0.0747585153
926682	-3.79004753	3.580897052	2.086640366	-2.503824654	0.5102735378
926954	-1.25507494	1.900624364	0.562235817	-2.087390339	-1.8084001296
927241	-10.36567336	-1.670540206	-1.875379194	-2.353959892	0.0337122683
92751	5.47042990	0.670047220	1.489132801	-2.297135901	0.1845409324
	PC6	PC7	PC8	PC9	PC10
842302	1.410183639	2.1574715203	0.398056982	-0.156980233	-0.8766305374
842517	0.028631162	0.0133463502	-0.240776600	-0.711278966	1.1060217613
84300903	0.540976145	-0.6675790845	-0.097288135	0.024044486	0.4538760367
84348301	3.050737497	1.4286536346	-1.058633755	-1.404204115	-1.1159933184
84358402	-1.225416405	-0.9353895017	-0.635816609	-0.263573547	0.3773724202
843786	-0.450642134	0.4900139551	0.165298432	-0.133355760	-0.5299649041
844359	-0.128835073	-0.3013023315	-0.083624609	-0.079954220	0.2189506984
84458202	-1.255934103	0.9732434974	0.652763899	0.247965464	0.9997064885
844981	0.559052820	-0.2149145974	0.686736938	0.511473855	0.0291618051
84501001	-0.723272337	2.5176245802	-0.364827879	-0.716766009	-1.1646060593
845636	0.127219899	0.6244628561	-0.165603833	-0.301115608	0.3759046163
84610002	0.764194227	0.6655068738	-0.619000411	-0.400588340	-0.3307781202
846226	2.592290301	0.9406696600	3.318863750	-0.747130974	0.3955980681
846381	1.006774257	-1.7974995418	-1.105684467	0.267389882	0.4391951701

84667401	-0.349408795	0.7422274132	0.280679206	-0.674510305	-0.1155553104
84799002	0.495342130	0.9142524133	-0.302257713	0.456538430	0.4467643551
848406	-0.761520960	-0.0867706702	-0.029483040	0.502783775	-0.4992331367
84862001	-0.751827782	0.4415962916	0.413405991	0.018656683	0.3563165037
849014	-1.136688687	-0.2510619539	-0.741499503	0.410086322	-0.5708248435
8510426	-0.048594023	-1.2006310194	-0.403270875	0.404944121	0.0059203674
8510653	0.430462491	0.3381860916	0.861201670	-0.187036602	0.3606065559
8510824	-0.769391365	-0.1908707908	0.244247147	0.546415425	0.0076299444
8511133	3.020386239	-1.0062943167	-0.104544724	0.168363304	-0.2454047607
851509	-0.595316618	-0.0747626295	-0.180094245	-0.363806008	0.6909368005
852552	-0.812165001	0.7996017629	-0.419539913	0.810965561	0.0214595144
852631	1.183160422	0.6013244034	1.306262282	1.100042783	2.2842657360
852763	0.786665153	0.2896641020	0.495541562	0.113090873	0.2951812417
852781	-0.906797174	-0.6452669891	-0.340174492	-0.043873679	-0.3961957456
852973	0.192679233	0.1609885641	-0.378501497	0.356974453	-0.5691360315
853201	0.036227947	0.1838685926	0.218709799	-0.381333094	-0.0364970759
853401	0.241867529	0.4615706215	0.291813749	0.284492214	0.1182178679
853612	1.233593969	1.9763494638	-0.202453666	0.564148659	-0.2297663753
85382601	-0.190839648	-0.8888020606	0.243842164	0.442519010	0.1433737325
854002	0.267243832	1.0317090641	-1.141727259	-0.566293378	0.2446991603
854039	1.000905829	0.7700944229	-0.210139235	-0.585132155	-0.0747302216
854253	2.009267717	-0.7199616429	-1.411392236	0.196789071	-0.7431027433
854268	0.568095150	-0.1425954318	-0.488198042	0.390894097	-0.3824484486
854941	0.290013739	-0.8043318792	1.707341340	-0.891664549	-1.0876247249
855133	-1.493142577	1.2791292757	1.498249655	2.100532774	0.0114924931
855138	-1.036438899	-0.1775681622	-0.198083551	0.431153558	-0.4385877226
855167	0.928295680	0.0418357439	0.048599880	0.666574547	0.3902914311
855563	-2.120772389	-0.4965417472	0.484027443	0.912512891	-0.4303234931
855625	4.307303747	0.4337837927	-1.387017258	-0.352517752	-0.9339783433
856106	0.242568260	0.6132339088	0.067809257	0.282512565	0.1518262957
85638502	0.110049368	0.2333988676	-0.174872997	0.544441256	-0.2067359385
857010	0.423532149	-0.7874816331	-0.790091300	0.111457042	-1.0551322678
85713702	0.575420451	0.2230057137	-0.867569780	0.328258562	-0.1456716219
85715	-0.281861620	-0.1604792421	-0.018943396	0.591809797	-0.1053337966
857155	-0.692882067	0.1971605392	0.040044188	0.419441177	-0.6168907916
857156	0.544804546	-0.6838772921	0.555862941	0.605703404	0.1987895162
857343	0.266013819	0.4536379429	-0.123851495	0.259381187	-0.4343429520
857373	-0.256313209	0.4449438979	0.057879905	-0.492076521	-0.2410267010
857374	0.629337135	0.0607736151	-0.510873270	0.413623505	0.8230489282
857392	0.707227400	0.6479398411	1.537761700	-0.614290601	0.0886086788
857438	-0.656077776	-0.2152637743	-0.207515896	0.505338373	0.1085018162
85759902	1.277739611	-0.3925629141	-0.745416793	0.301153902	0.0751610030
857637	-0.178434830	-0.1853434904	-0.309233059	0.012534355	-0.1128753503

857793	0.461927636	0.5362098378	0.951178388	0.073379908	0.1941817154
857810	0.705119501	0.4873781448	-0.297723909	-0.127261763	0.7362638224
858477	-0.900267281	0.4064726785	-1.225062124	0.345609537	-0.4642608787
858970	2.538550035	0.7457813449	0.909941133	0.262199059	1.3178790775
858981	-0.815018482	-0.3959097935	-0.230734976	0.102956869	-0.9272860914
858986	-1.218994501	0.8193030850	-0.330742314	0.528189577	-0.4855301241
859196	2.955682829	0.2103798445	0.627427082	-0.232120660	0.0413657355
85922302	-1.242117920	-0.0057834579	-0.385706296	0.801372546	-0.1817471124
859283	-0.727422417	-0.5309593004	0.474393258	0.003939003	0.1728882560
859464	-1.188527693	0.1693780934	-0.029824460	-0.111145907	-0.2713131090
859465	-0.405353080	-0.5265287503	-1.082071976	0.427426065	-0.3912329742
859471	2.213816387	-2.5787909992	-1.298010892	3.780791875	-2.7357511959
859487	-0.433947228	-0.8493285940	-0.334869937	-0.004978691	-0.3104418547
859575	-0.291543973	0.2832433298	-0.086188560	0.326867199	0.0333168740
859711	-1.638316786	2.4262266414	-1.317108728	-1.883468421	3.1898325590
859717	-0.539586813	1.5624901202	-0.593662500	-0.672507942	0.0611282077
859983	-0.919638446	0.6971724884	0.393036492	-0.357905538	-0.1474184494
8610175	0.034838302	0.1200189004	0.459971988	0.314694924	-0.0155400843
8610404	-0.994688029	-0.9081210535	-1.100360740	1.244777578	0.0926553152
8610629	-0.612562561	-0.7756714142	0.246838044	-0.772831741	1.5166900630
8610637	0.682870529	1.3985754634	-0.719241167	-0.096664805	0.5085691762
8610862	4.876508199	-1.1544779461	-0.483077495	-1.170391748	-1.3237161139
8610908	-0.072350138	0.0536554932	0.355866547	0.048832592	-0.1077491295
861103	-1.501869476	0.1435614258	0.486258862	-0.122378079	-0.0390292436
8611161	0.138012244	-0.3263920580	0.151919734	-0.226864771	-0.5036154424
8611555	-2.186236690	0.0355707110	0.547079286	-1.647859246	0.3961746350
8611792	-1.421297891	-0.0432176692	2.012767522	-2.966728252	0.0222412116
8612080	0.882263930	-0.2550878307	0.229994161	0.423649141	0.1477716874
8612399	0.967176566	-0.1536701262	0.192125163	-0.083450911	0.4426520533
86135501	0.567360307	-1.6613223577	0.349250281	0.571523884	-0.1210561314
86135502	1.560091353	-0.1983680707	-0.643025712	0.183841722	0.4623711739
861597	0.223702425	0.0769126070	0.148776905	0.262252261	0.4555666494
861598	0.842299884	-0.1736551116	0.614011283	0.283254129	0.3987023515
861648	0.325518164	0.2995505173	0.128752056	-0.246304891	0.5210683990
861799	-0.199459121	-1.7255946363	-0.786058401	0.116745956	0.1441268207
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862009	-0.321113861	-0.5677543179	0.395718555	0.058107568	-0.4912485698
862028	-1.066707998	-1.0421552988	-0.283564277	0.637899776	-0.2969722678
86208	1.783555798	0.0004244298	-0.292506839	-0.580370555	0.4991648297
86211	-0.096852967	-0.0225249946	1.596299697	0.179428829	0.4099629648
862261	-2.351934315	1.1157841763	0.148452301	-0.906614963	-0.3165086702
862485	-0.430903499	0.4844971328	-0.290694588	0.057293175	-0.3825068496
862548	-0.853188272	-0.5060704070	0.634423963	-0.237141676	0.1392901935

862717	-0.595802895	0.0029648840	0.062601958	0.797723981	-0.2095356865
862722	-0.899700995	1.4116521142	0.324334412	-0.505544952	-0.1898542596
862965	0.342937555	-0.2377974400	0.513345470	0.454774516	0.1528759939
862980	-0.991047162	-0.5084776263	-0.051816347	0.885904532	0.1673165990
862989	0.940750946	0.1577998775	0.592437419	0.477922672	0.6483605373
863030	-2.202856495	0.5190182681	0.919491499	0.024774004	-0.5966611023
863031	-1.608771501	-0.4979118440	0.452844869	0.527102050	-0.4592233167
863270	0.359599477	0.1231328050	0.263560697	0.289616641	-0.1759008102
86355	1.020860934	-0.0954075198	0.767942841	0.627017416	-1.0979068211
864018	-1.439608866	0.2115695617	-1.388075349	0.448512027	-0.6290141193
864033	-1.095444306	0.2037178296	-1.218964989	-0.570481422	-0.7426654271
86408	-1.458702835	-1.0401187280	0.120431563	-0.227163027	0.3361622567
86409	0.833123888	0.4111745398	0.970303417	-0.535303964	-0.2484248020
864292	-1.261777184	0.1057625720	0.713697894	-0.410313572	0.6957360576
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864729	-0.767555623	-0.2067958374	0.209629326	0.284564474	-0.0334444954
864877	-1.492492721	0.4264319465	-0.275527717	0.357573419	0.0964420085
865128	4.975158195	-0.9917687699	-1.044205851	-0.483438131	-0.3707162449
865137	-0.438000429	0.0569341545	-0.463647307	0.245730642	-0.4929124233
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865423	-0.946220851	-1.2957391097	-0.792061520	-1.694971898	-0.0776531867
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8912284	-0.001371246	-0.8124335431	0.298426343	0.333751972	-1.1255027577
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8912909	-0.296527349	0.8403551858	0.163416046	-0.337454150	0.3308918426
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89143601	1.995111435	-0.4474969098	0.438993216	-0.154339792	-0.1535414595
89143602	0.870504292	1.4288153440	0.056604771	-1.772331697	1.6749304819
8915	0.245372994	-0.2532806962	0.131339272	0.013100900	0.5285901781
891670	0.089387450	-0.2632432645	-0.963857814	-0.475551131	-0.0781849151
891703	0.414086721	-0.6568800189	-0.389574742	0.447437433	0.1298348252
891716	-0.656055820	-0.1831651809	0.302520981	-0.106866323	0.0604470360
891923	0.629424293	-0.0059656014	0.134317338	-0.521742080	-0.2066610311
891936	0.962920440	0.2364685754	0.700921264	-0.667458810	-0.8409535457
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892438	-0.892012107	1.1708230247	0.240630468	0.401231594	-0.7912809587
892604	1.057049565	0.0641942198	-0.174584753	0.162311622	0.1211142829
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892657	-1.764318755	-0.3089463278	0.389324396	-0.194847252	-0.4738750247
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893061	2.355994261	0.0138795016	-0.129463186	-0.085067064	0.2108086852
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89346	1.475361121	0.9496661823	-0.136253368	-0.293049733	-0.0729297836
893526	0.555206557	0.5520636775	0.099323502	-0.477005324	-0.2717178095
893548	-0.096172883	0.8390301222	0.333065881	-0.012531062	-0.1732876433
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894089	-0.823767200	0.2426330221	-0.067426170	-0.339172721	-0.4694609147
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9113778	0.924815954	0.4955679709	0.271493006	1.207045823	0.9402146855
9113816	0.104368624	0.3193046533	1.032390830	0.608291184	0.3973472073
911384	0.614923390	0.2799737367	0.064837589	0.000246286	0.1024202377
9113846	0.889614864	0.9246961441	1.085823439	-1.206656818	-0.4839705795
911391	-0.419258899	1.2867603886	0.403282990	0.138807336	0.2209332151
911408	0.367305570	-0.3444775333	-0.345062063	0.425223320	-0.3655267250
911654	-0.049155752	0.2225068454	0.195224752	0.027736360	-0.4073010683
911673	1.337188809	0.5365858519	-0.041952920	-0.041897079	0.7863400612
911685	-0.024030956	0.2726963978	0.651189204	0.259076986	-0.5098708464
911916	0.808383394	-1.5668970121	-0.294290441	-0.135446630	0.2353454104
912193	-0.544923618	0.6168567753	0.360787470	-0.185386117	-0.6053952951
91227	-0.020448924	0.5596010017	0.238972704	0.281984868	0.2297284929
912519	-0.015465239	0.0341998123	0.556776251	-0.410366430	-0.0001525405
912558	-0.163288967	-0.2363141916	1.110535207	0.404965671	0.0866869538
912600	-0.959725312	-1.0374933742	0.281339803	-0.273903950	-0.2516387236
913063	1.555748208	-0.0074068986	0.103548840	0.620787469	0.0066500562
913102	-0.100925216	-0.2480033888	0.236855524	-0.190191595	-0.7367867541

913505	-0.355060598	-0.6249667494	0.532054753	-0.572942001	-0.7416972638
913512	-0.865293960	-0.3426305869	0.107911866	0.387462633	-0.0895571414
913535	3.200742182	0.1681848622	-1.037468192	-0.233454240	0.5205880964
91376701	0.211717707	0.6719224926	-0.478277765	0.094544374	-0.0149590726
91376702	-0.552916738	0.1223216364	0.339129401	-0.965159125	-0.6851658328
914062	0.929231997	-0.1972060738	-0.161505829	0.030338925	0.5659987102
914101	0.564240369	0.2686459455	-0.516024743	-1.234008136	0.0270632156
914102	0.565106052	0.4685793512	-0.573882748	-0.356776050	0.2895432749
914333	-0.437681039	-1.0429086282	0.759487730	-0.479171345	-0.6395383847
914366	-0.602030766	0.4096827364	-0.141544270	-0.126704802	-0.5507565750
914580	0.213609008	0.0982391416	-0.007360691	0.100535897	-0.5819463924
914769	-1.103639415	0.6339022355	0.059087104	-0.286816236	0.3931897963
91485	-1.446663003	-0.5729903088	0.649548750	-0.535576844	0.2509909032
914862	-0.852480433	0.7049106403	1.345754994	-0.488514486	0.4163000633
91504	-0.507970681	0.2069805672	-0.080099530	-0.051659333	0.9747986067
91505	-0.241932508	-1.0452388229	-0.209946317	-0.039368061	-0.1874087571
915143	0.066333057	1.1529703725	-0.991695109	0.167376682	-0.5695827223
915186	-2.200919526	1.0250951989	2.028889513	-0.236610613	1.1453491173
915276	-3.508790828	0.6042606963	-1.278500206	-1.872556795	1.0201289746
91544001	-0.484723076	-0.1359505647	0.665044251	0.777877875	0.9392975863
91544002	-1.947329468	0.4881934312	-0.255064594	-0.906528375	1.2755281468
915452	-0.833977551	-1.4088879023	-0.297979389	-0.073731957	0.6470988652
915460	-1.602111794	-1.0533691956	0.356568603	-0.428904878	-0.7303104811
91550	0.253668588	0.5472551225	-0.542053825	-0.617650801	-0.0916288468
915664	0.032979942	-0.8752970956	-0.295663965	-0.033414237	0.3412769300
915691	-0.136700223	0.3929176231	0.614735076	0.714787485	0.1215931340
915940	0.072494321	-0.1758143289	0.255077079	0.311421297	-0.2139098582
91594602	-0.773624515	-0.1454686759	0.499925801	0.270529716	-0.4082811925
916221	0.046608047	-1.0005231004	-0.306962199	0.655600375	-0.0907347030
916799	-0.491293222	-0.5167539200	0.050028508	-0.131357405	0.2258787420
916838	-1.017677377	-0.0261084918	0.443355468	-0.658166813	0.5299438963
917062	-1.286369931	0.7480548590	1.375305788	-0.257540461	-0.2080778673
917080	-0.265206232	0.1942744924	0.462310866	0.357702019	0.7940768989
917092	-0.548135411	-0.8140726857	-0.987108671	-0.070507407	-0.0537361968
91762702	-0.006685146	0.9611743974	0.397621795	-1.256638663	0.8486917334
91789	0.097095633	0.7218828231	0.508127340	0.060557805	0.3878654534
917896	-0.600188263	0.1391868086	0.295156517	-0.243768633	0.0023377369
917897	-1.401965911	0.9527774834	-0.299971512	-0.503892654	-0.7846233548
91805	-1.210209018	0.8160391133	-0.373064638	0.292981675	-0.3609872357
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91813702	0.325770470	-0.0944504391	0.149150397	0.318904984	-0.2288534014
918192	-1.686010994	-1.7109061685	2.408540813	0.332918111	-0.1176166151
918465	-0.851940525	-0.0288485824	-0.205098471	0.032406632	-0.3895059803

91858	-1.101161685	0.0869517853	1.295452125	0.161515938	-0.9103205148
91903901	-0.289073515	0.4730366470	-0.069618747	0.543463275	0.0572082633
91903902	-0.197903630	0.4337496082	0.168973422	0.024829540	0.3191275798
91930402	1.934520374	-0.7275859760	0.757319150	-0.175980334	0.2702433954
919537	-1.550311718	-0.7176961616	0.139629661	0.188290346	-0.3701820155
919555	0.578720770	-0.5430102167	0.951930849	-0.247809950	0.5286878926
91979701	-0.523378449	-1.1495594767	1.091132033	0.323915796	-0.1038818740
919812	-2.337461193	-0.4830815304	0.501982823	-0.069804388	1.2788258192
921092	0.042391707	2.1668488112	-1.479915189	-0.322804378	1.1801175946
921362	-1.158207647	0.1913668076	-1.796559226	0.876067543	0.9484780485
921385	-1.188472456	-0.6771595730	0.146514414	-0.291391323	0.1026424111
921386	0.425520296	0.3979358310	-0.835301076	-0.383809102	0.6190792834
921644	0.765081147	-0.4663049042	0.398228821	0.364670551	0.7941292239
922296	0.068753051	-0.4148574879	0.507946096	0.278027691	0.2875814970
922297	-0.930763180	0.5238585798	0.300437607	-0.356308724	0.4182343622
922576	0.114797260	-0.1161527345	-0.013618636	0.058006015	0.1323174915
922577	-0.145962831	0.2596286888	0.149437375	0.564356936	0.5746698535
922840	-0.677751360	0.0640445882	-0.970113001	-0.454875027	0.0952997770
923169	-0.112569772	0.4740694793	-0.169694808	0.410188208	-0.2194120652
923465	0.854769667	1.0210226174	-0.160349809	0.446749349	0.3987268089
923748	0.850625097	0.7520064103	-1.069484886	-0.588800008	0.0688498920
923780	1.783207929	0.3901520318	0.873654798	0.310967487	0.3653727356
924084	-0.582689902	-0.6178681677	-0.938396865	0.362221796	0.4485215927
924342	0.411907169	-0.3073955477	-0.357594218	-0.143055766	-0.4514830478
924632	-0.549918834	-0.4839795902	-0.892397382	0.435103530	0.2439245685
924934	-1.640362885	-1.0878956916	-0.349885533	0.514611257	-0.0049422107
924964	-0.814176294	-0.4706597676	-0.071321985	-0.701263764	-0.0705817127
925236	0.174755382	1.0763071056	-0.129380621	-0.426655069	-0.2770426795
925277	0.012441261	-0.2900018002	0.312069081	-0.067804247	-0.3254840515
925291	-1.724352624	-0.3536636324	1.163315907	-0.207312716	-1.3904847631
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925311	-1.109815814	0.4879418774	1.288150901	-1.389256180	-1.7451271378
925622	1.012707855	0.2712037562	-0.091882489	0.372148526	-0.6298691742
926125	-0.300488375	0.0947410215	0.733436507	0.830362739	0.4502424273
926424	-2.373104852	-0.5956056075	0.035439747	0.987060511	0.2567626672
926682	-0.246493221	-0.7156966020	1.112380784	-0.105114917	-0.1085369986
926954	-0.533977345	-0.1925887705	-0.341586475	0.393570521	0.5204194692
927241	0.567437190	0.2228855560	0.279992246	-0.541558028	-0.0892176149
92751	1.616415088	1.6974579729	-1.045433644	0.373772231	-0.0476836145
	PC11	PC12	PC13	PC14	PC15
842302	-0.262724285	-0.8582592992	0.103296775	-0.6901967966	0.601264078
842517	-0.812404827	0.1577837523	-0.942699807	-0.6529008436	-0.008966977
84300903	0.605071514	0.1242777100	-0.410265611	0.0166650952	-0.482994760

84348301	1.150501182	1.0104267377	-0.932450704	-0.4869883986	0.168699395
84358402	-0.650787016	-0.1104182769	0.387606915	-0.5387065429	-0.310046684
843786	-0.109669824	0.0813699015	-0.026251351	0.0031339435	-0.178447576
844359	-0.393343607	0.2419761651	-0.351941936	-0.2216015267	0.060855369
84458202	0.196313828	-0.2777917914	-0.460630835	-0.0961356710	0.187478261
844981	0.560021577	0.0788169039	0.493001875	0.1120530076	-0.034237132
84501001	-0.548555069	-1.0841629631	-0.375475245	-0.0006033716	-1.206141020
845636	-0.294276512	0.6099198621	-0.692298563	-0.1301140961	0.091099184
84610002	0.150099383	-0.8725334105	-0.978852628	0.4132851288	-0.076575493
846226	1.119190867	0.0520074379	-1.983208918	-0.2667913889	0.492408131
846381	0.853628961	0.0628135272	0.194455743	-0.1212264306	-0.151174299
84667401	0.637371253	-0.5439530565	0.152152510	0.0208341513	-0.504094726
84799002	-0.089892055	-0.0929155801	0.272937688	0.4193736451	-0.531937246
848406	-0.283115330	0.3228336349	-0.873313571	-0.2068809463	0.026977460
84862001	-0.077022788	0.1450773283	-0.056826726	-0.5557727446	0.357788221
849014	-0.382631859	0.0680073259	-0.762829689	-0.1781151366	0.186075363
8510426	-0.087947737	-0.3232036086	-0.240304220	-0.1497219434	-0.277740235
8510653	0.252743308	0.1820993618	0.534747411	0.5364927035	0.630306593
8510824	0.295829357	-0.1193713638	-0.105109885	-0.5505241800	0.208888166
8511133	0.747761739	-0.7897394650	0.018967583	-0.3939657391	0.178368816
851509	-0.845138812	0.1995874763	-0.760017755	0.1495561475	0.585041105
852552	-0.600095326	0.2321645154	-0.719018102	0.0560160318	0.622570169
852631	0.196585356	-0.8095860291	-0.394727262	-0.9305675819	-0.282237083
852763	0.441362589	-0.9739851395	-0.516422067	-0.7074323955	-0.383724915
852781	-0.412668030	-0.3158058348	-0.298472337	-0.2950812415	-0.235804579
852973	0.370382886	-0.1246372082	0.129900549	0.1958202715	0.175956263
853201	0.246904961	-0.0031839923	-0.222279620	0.1283529520	0.091747519
853401	-0.496378073	-0.1044630774	0.885636344	0.0692396351	-0.376293016
853612	-0.756864461	-0.2657615457	-0.522186276	-0.3000453967	0.072356014
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854002	0.077919478	-0.1992975316	0.307173136	0.2036374012	0.068495324
854039	-0.326307877	-0.4066154950	-0.351748055	-0.0564880712	-0.224784255
854253	-0.328257659	0.2292843967	-0.619894462	0.2143138994	-0.067766013
854268	-0.217741168	-0.0195015091	0.032551005	0.1704452228	-0.479641248
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855133	1.047288688	-0.6130946673	-0.290379074	0.1249868104	-0.401912364
855138	0.591014507	-0.0004681369	-0.235544182	-0.4578511130	-0.668135575
855167	0.145009410	-0.0423201249	0.029903294	0.0054147710	0.005022251
855563	-0.115306889	0.3312318699	0.019742154	0.2321540822	-0.128765770
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856106	0.160272727	0.1311301054	-0.144226466	-0.1816995714	0.160135565
85638502	0.240085901	0.1091591008	-0.164573360	-0.0950096841	-0.193897144
857010	0.003089503	-0.1206287088	-0.149769253	0.3143049855	-0.268535008

85713702	0.090090936	-0.0249037139	0.378695789	-0.2394451655	0.277696370
85715	-0.289430944	-0.0732252281	-0.561084977	-0.2625113637	-0.646184357
857155	-0.324354020	0.0931121402	0.393569102	0.5995102295	-0.169047859
857156	0.237322628	-0.0116411885	-0.208908133	-0.1508619753	-0.058578846
857343	0.639460669	0.6058597387	0.224644982	-0.0446479438	-0.040260858
857373	0.079686662	0.0240053741	-0.377273811	-0.4453178247	0.108861412
857374	0.025165467	0.1593213356	0.246020193	-0.5093448931	-0.077987883
857392	-0.274018692	0.6533266173	0.601165133	0.6072878098	-0.501815152
857438	0.058487255	0.2677384961	-0.399395210	-0.0450747265	-0.036176457
85759902	0.197754405	0.5401834853	0.058602197	-0.1399689340	-0.349863814
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857810	-0.228334046	-0.1991733623	0.421272292	0.2167665417	-0.342304785
858477	-0.621205924	0.3367435600	-0.148838932	-0.4425445128	0.511520357
858970	-0.369405174	0.4379929489	0.090549052	0.3353742675	-0.536697760
858981	0.341145747	0.3759209730	0.161076437	1.1878815701	0.321697375
858986	0.717323304	-1.1859167706	0.589385595	0.3030289831	0.129915286
859196	-0.511053316	-1.0091261525	-0.229682636	-0.7934928857	0.139211976
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859283	0.510796559	0.5421158683	0.129143047	0.1548683357	-0.008334256
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859471	-2.301916714	1.9478812125	1.103679434	0.2450717685	1.060326663
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859983	0.379838236	-0.1163449791	-0.053581681	-0.1557475752	-0.059940319
8610175	-0.007559389	-0.2732435321	0.012174976	0.2578796832	-0.032393640
8610404	0.140571180	-0.7691753712	-0.428252247	-0.1639715182	-0.078397551
8610629	-0.408291577	-0.3217815151	0.814890878	0.8570418853	-0.590679517
8610637	0.845106205	-0.7038553721	-0.692840046	0.3237751499	-0.106235419
8610862	1.209082105	1.2860572446	1.339239602	-0.5384927467	0.904755029
8610908	0.127065020	0.1355485485	0.028337746	0.5169396446	-0.020759654
861103	-0.786967580	0.0345574874	0.033439840	0.1843125970	0.447952176
8611161	0.195944932	-0.3957884419	-0.141772499	-0.0148270384	-0.153420304
8611555	0.253381955	-0.5690714729	0.753989687	-0.5460281371	0.432021867
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8612080	-0.745878240	-0.4598049292	-0.091626105	0.5523153709	-0.050962065
8612399	-1.004759517	0.0873877036	-0.757338038	-0.4174802891	-0.021205962
86135501	-0.552045457	-0.8029870413	-0.067392082	0.1127709163	-0.092173983
86135502	-0.433326769	0.5703689588	-0.119188327	-0.4170696748	-0.396379852
861597	0.016642280	-0.3158031850	-0.382598138	-0.4374455309	-0.208840242

861598	0.741940542	0.0200969537	-0.065901136	0.8226864857	-0.236364320
861648	0.724144967	0.5554322605	0.214432986	0.3277344219	-0.037958812
861799	0.937374393	0.4067146390	0.563287417	-0.7725393225	0.029255733
861853	0.049407605	-0.6890916537	-0.464225889	-0.4063362427	0.014895270
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862028	0.609344020	-0.7423625667	0.222233620	-0.2428698410	-0.129345613
86208	-0.644167720	-0.1613821271	-0.079839276	0.2971928632	-0.073910222
86211	0.585191831	0.4438091073	-0.230398088	-0.1827187582	-0.061170624
862261	-0.329894644	0.3323522602	-0.138254531	-0.1072538655	-0.178613587
862485	-0.146550183	0.0692879791	-0.002258044	-0.4559046799	0.100650887
862548	-0.407700886	-0.7112958461	-0.473288604	-0.2122558723	-0.075410969
862717	0.237747713	0.4271403452	0.204387799	-0.0197655248	-0.095573905
862722	-0.610239332	0.4132517311	0.433086920	0.1177467385	0.467007135
862965	-0.443071154	-0.2120443990	-0.079804331	-0.2584303490	-0.021044615
862980	0.020059110	-0.4442424967	0.246073297	0.1099355080	-0.277245907
862989	-0.021288531	-0.1327134811	0.583529561	0.4492001813	0.109180374
863030	-0.564911664	0.9193590685	0.012370125	-0.2168197204	-0.865838150
863031	-0.154806897	-0.1866572122	-0.633643189	0.4039318163	-0.108589053
863270	0.066405975	0.0760311613	0.128667473	-0.0370781851	0.297765381
86355	0.090596486	-0.7421530470	1.075751502	0.9368104783	0.533299888
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86408	0.650777643	-0.2933259538	-0.112544389	-0.7586715299	0.283199791
86409	-0.284942699	0.7269431412	1.212935475	-0.7159944693	0.251522069
864292	0.313444155	0.1805138306	0.390237981	-0.1019964618	0.592050290
864496	0.287039611	0.8103129309	-0.230171199	-0.1255945235	0.341881787
864685	0.262233097	-0.0114082847	0.074866229	0.6410038747	-0.136567267
864726	1.325817930	-0.5164890912	0.796713304	-0.1042779720	1.230334163
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865137	-0.400226119	-0.3973995978	-0.287870867	0.1832657469	-0.054754724
86517	-0.884232338	-0.0265148144	-0.611872230	-0.2217926975	-0.115027379
865423	-1.605406626	-1.1915246645	2.585042825	1.4099705217	-0.170480479
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86561	-0.110403142	0.1048734656	0.245746438	0.2803976055	0.304557047
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911391	0.138131568	-0.3317485069	0.468648050	0.5125091603	-0.247577084
911408	-0.080959244	-0.0289294939	0.300967232	0.1986298009	-0.100281123

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911673	-0.234743745	-0.6218627235	0.326319542	-0.1666228749	-0.095218142
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912193	0.210596861	0.0019211493	0.282324590	0.2574975838	0.394276265
91227	-0.182316821	-0.0185594843	0.025351655	-0.0237769481	-0.107980895
912519	0.270190534	0.4252029656	-0.191220618	-0.1431104463	0.013293072
912558	0.200475839	0.4272385494	0.213721370	0.1529513498	0.147794029
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913102	-0.131537575	-0.0758429334	0.198911781	0.4966581680	0.038938641
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91376702	-0.236364830	-0.1156699908	-0.040531331	-0.0817350822	0.166193133
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921385	-0.459932233	-0.8716409253	0.133864842	0.2918316525	0.533705303
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921644	0.344308231	0.2851593715	-0.174263087	-0.3021703935	-0.091722354
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927241	0.178471102	-0.6968480142	1.224117875	0.2185054033	-0.229389196
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842517	-0.6482383131	-0.0171970719	3.180176e-01	-0.2473469895	-0.1140327429
84300903	0.3248247158	0.1907506408	-8.789759e-02	-0.3922811953	-0.2043524231
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84358402	-0.1524716533	0.1330252645	-1.869779e-02	0.4610302383	0.0654378154
843786	-0.0127056581	0.1967133529	-2.972771e-01	-0.1297264835	-0.0711745335
844359	-0.0279433054	-0.3200829050	1.230170e-01	0.0035239593	-0.0444495512
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844981	0.5070582930	0.2854754597	-2.870772e-01	-0.1822709687	-0.0197682471
84501001	-1.1318257248	0.7584688292	-2.387387e-01	-0.1275685149	0.1779240553
845636	-0.0138706093	0.2849159741	-6.134944e-02	0.1720437193	0.0937289351
84610002	-0.0187810714	0.1611055355	-4.159689e-01	-0.1367793291	0.0566814179
846226	-0.2920952462	0.0531727295	9.339577e-01	0.9728881275	-0.3157956887
846381	-0.1992780260	0.0096995090	9.339247e-02	0.1010674465	0.1967267792
84667401	-0.1618282348	0.1754310229	2.238806e-01	-0.0531840832	0.3639545281
84799002	-0.6382781617	0.1798611136	-1.718454e-01	0.0906929739	-0.2822197817
848406	0.2443739278	-0.0458383708	-2.208124e-01	-0.0808510853	-0.1668401722
84862001	0.2215767406	-0.0781818510	5.021716e-02	0.3243354151	0.1355909907
849014	-0.1393548032	-0.6855739616	-2.705080e-01	-0.4576544799	-0.0261720852
8510426	0.1209221166	-0.1193080949	1.076572e-01	-0.0023196540	0.0627784940
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8510824	-0.2156163397	0.0416265799	-4.312105e-02	-0.2850057948	-0.0664739762
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861648	-0.1835520312	-0.0073079751	6.880183e-02	0.0569711434	0.1014561762
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862261	-0.0996387794	0.1457218445	-4.086137e-01	-0.0517074621	-0.0903242792
862485	0.2297949692	-0.1010915701	3.228795e-01	0.0795964606	-0.2354725917
862548	0.0263312435	0.0738390906	2.193437e-01	-0.0561248044	0.0934256201
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862722	-0.0648161007	-0.0743586672	6.001312e-02	-0.1605585403	-0.1381556177
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862980	0.1904717597	-0.2912688556	3.675219e-01	-0.1108806079	0.1781375653
862989	-0.3723552575	-0.2544929562	7.295163e-02	-0.0412255879	0.0550120885
863030	-0.3423285309	0.0370571626	-3.073614e-01	-0.1802702994	-0.1095713573
863031	0.0260291585	0.0416980798	1.873460e-01	0.0537284809	0.0987456977
863270	0.3955030905	0.3233273965	2.988237e-02	-0.0777973821	0.0970946107
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864018	0.2303559150	-0.2079807983	5.509481e-01	0.3335341685	-0.3083514381
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864729	0.3784407497	-0.3282198389	2.854566e-01	0.1676563450	0.1316948737
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8911163	-0.2941732820	0.0273194089	2.084833e-01	0.2293466589	-0.0130932974
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8911230	-0.1284983278	-0.1597558711	6.426416e-02	0.0074949833	-0.0283059236
8911670	-0.2623855379	0.1886264975	1.756244e-01	0.1272585415	-0.0684301015
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8913	0.1187594237	0.0334731531	1.748122e-02	-0.0474594260	-0.0814308263
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9111596	0.3023811300	0.0077199329	1.345593e-01	-0.2184060575	0.0381999906
9111805	-0.2075103911	0.0499271046	1.364878e-01	0.1454063699	-0.1392078703
9111843	0.0636753200	0.0645610230	1.325198e-01	-0.1593267650	-0.0230293717
911201	0.0446388629	0.0111269523	-1.019937e-01	-0.0247202803	-0.0173480886
911202	0.2128912238	0.1028098920	1.646636e-02	-0.1007777172	-0.1362036316
9112085	0.0904844228	0.2839185263	-1.366948e-01	-0.0472354259	0.1345243127
9112366	-0.0808518879	-0.0740424954	6.554379e-02	0.1098374324	-0.0412836773
9112367	0.0933317815	0.0140758789	2.189715e-01	0.0844439571	0.0446639419
9112594	0.1713723380	-0.0767897798	1.796050e-01	0.0785053885	0.0201118723
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911296201	-0.1126613679	-0.3119496989	1.037352e-01	0.2288439901	-0.0812678322
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9113156	-0.0913792583	-0.1054493785	2.447532e-01	0.1015553238	-0.0955438537
911320501	0.4093659972	0.1500933696	5.328932e-02	0.0508637577	-0.0908707847
911320502	0.4173330623	-0.3048383097	3.903673e-01	-0.0113977017	0.0141957264

9113239	-0.5974218658	-0.1471347025	-1.849631e-01	0.0873280813	-0.3477157152
9113455	0.0291153507	-0.2534408859	4.252163e-02	0.1488658763	0.0808908761
9113514	0.3421853326	-0.0986465839	5.041461e-02	0.2709480873	-0.0442397637
9113538	0.1763564924	-0.0372038848	-2.845932e-02	-0.0736369742	-0.1005821487
911366	0.0172054420	-0.0308367920	4.471065e-02	0.2432901471	0.1623773566
9113778	0.0453408189	0.0054958394	-5.969832e-03	-0.0895727295	-0.1057466710
9113816	-0.0375389091	-0.0185752968	-3.814678e-01	0.2193251118	-0.1105674525
911384	-0.3061000700	-0.0456225836	-1.504954e-01	0.0183164709	0.0824946722
9113846	-0.3118583243	-0.1663433967	-6.947857e-02	0.1596341500	-0.1369845189
911391	-0.5691688283	-0.1311857188	8.801939e-02	-0.1537656514	-0.0164150330
911408	0.0117212288	-0.0724106602	5.570345e-02	0.0750153505	-0.0219888150
911654	-0.0680199510	-0.0159018154	-6.871319e-02	-0.0502469230	0.1534418424
911673	-0.1709974620	-0.0123870580	1.253255e-01	0.0402899453	0.0872854803
911685	-0.2423751707	0.2024671275	9.986513e-03	-0.0191811381	-0.0776162133
911916	0.0066630909	-0.0333292719	9.492904e-02	0.1037114236	0.1504849896
912193	0.0730122133	0.1229340999	-1.878168e-02	0.0273209128	0.1648002007
91227	-0.0625536671	-0.0670321490	-1.133739e-01	-0.0066267371	0.0204274114
912519	0.0807803538	0.3695553903	-9.558657e-03	-0.1087302625	-0.0145514514
912558	-0.1108431089	0.0993002176	-8.432065e-03	-0.0759792888	0.0589537649
912600	-0.1179671609	-0.2487553324	3.755785e-01	0.2183619219	0.0804185129
913063	-0.2231144879	-0.0609497955	9.549203e-02	0.1245838741	-0.2692460854
913102	0.1344296202	0.0451822383	-1.368277e-01	0.0478395415	0.1626515967
913505	0.3504701936	-0.0342112188	-1.722325e-01	-0.1952482257	-0.1726036657
913512	-0.0886881633	-0.0843837467	-4.710080e-02	0.0779530510	0.1300871141
913535	0.0907135127	0.9633209004	-6.703700e-01	0.4577529577	-0.0821731674
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91376702	-0.0621296592	0.0166135409	-1.918704e-02	0.2927827630	0.0650347032
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914101	-0.1719195076	-0.1391153592	-1.557396e-01	0.0534505330	0.3398210898
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914333	0.0821806078	0.1322074081	7.798112e-02	-0.0934486716	0.1347701593
914366	-0.0358778749	0.2001729450	-5.753610e-02	0.0269178916	-0.0721536210
914580	0.3028308700	0.1781680304	-9.454086e-04	-0.0391171702	0.0452046506
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915143	-0.3891070161	-0.0692886438	-4.328159e-01	-0.0792224197	-0.1311026627
915186	-0.4989273290	0.0614426403	1.472576e-02	-0.0052089236	0.1871894308
915276	0.1061688558	0.1450975453	1.952681e-01	0.1988225061	0.3483613390
91544001	-0.5869003919	-0.0713984513	1.147645e-01	-0.0515120701	0.0833758506
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915452	-0.4326986916	-0.0421231224	4.042337e-01	-0.0714777001	-0.0411972178
915460	0.0811069349	0.1173216262	2.709368e-01	-0.0068353403	0.1695494454
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915940	0.0337297517	-0.1151432061	-2.808120e-01	0.1177171098	0.0119567274
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916799	0.1917801920	0.0156821488	-6.479661e-02	0.0497413311	-0.1812578717
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917062	-0.0403973202	0.0983046405	-1.417744e-01	0.1817929811	0.2574283017
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917896	-0.1157537076	0.1773029044	2.921844e-01	0.0806429725	-0.0289322155
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91813701	0.1779140177	0.2259259121	1.293641e-01	0.2521963074	0.0172741437
91813702	0.4493965033	0.2358398169	2.839421e-02	-0.1211408420	0.0401779785
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918465	-0.1573548181	-0.0332560589	4.103334e-02	0.1527013574	-0.0954426500
91858	0.2357778568	0.1714303720	-1.682333e-01	-0.0480760651	-0.0048463579
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921092	0.2246393773	-0.0759854108	-2.144004e-01	0.1077679119	-0.0754591770
921362	0.1157153017	-0.0946085126	5.607015e-01	-0.1632070601	-0.4108193773
921385	-0.0562823823	0.1692280446	-1.213046e-02	-0.0535534599	0.1078587734
921386	-0.1524138427	-0.0391271728	1.677550e-01	0.1610284957	-0.1314182663
921644	-0.2181697442	0.0270419575	7.676963e-02	-0.0335181090	0.1858465398
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924342	-0.4351182523	-0.1917622682	-1.571844e-01	-0.2947566845	0.1635577852
924632	0.0048691691	-0.0303433227	8.876475e-02	0.0041081275	-0.1145334139
924934	0.0206805941	0.1334742843	1.145619e-01	-0.1800354098	0.1188747634
924964	-0.2612530693	-0.0405031771	-1.773446e-01	-0.2615734828	-0.0134633024
925236	0.1100555556	-0.2497956869	-4.510752e-01	0.2787558115	-0.0588049466
925277	-0.1194566710	0.1244195792	1.484120e-02	0.0607378108	0.0576588492
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925622	-0.8029651181	0.1220605895	-4.950476e-01	-0.1819617089	0.3143066179
926125	0.0098729574	-0.0800009784	6.354433e-02	0.5562492156	-0.1554353516
926424	0.1475121301	0.3479599809	-1.950425e-01	-0.2460983953	-0.4040909029
926682	-0.1380625998	0.2932365347	-1.089496e-01	-0.1823602477	-0.2297445474
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927241	-0.0609931700	-0.1683659911	-3.066037e-01	0.3102957595	0.1730640918
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	PC21	PC22	PC23	PC24	PC25
842302	0.0964300446	-0.0687893946	8.444429e-02	0.1751022126	0.1508872943
842517	-0.0772594939	0.0944953050	-2.175267e-01	-0.0112801927	0.1703603547
84300903	0.3107932463	0.0602560125	-7.422581e-02	-0.1026714190	-0.1710076559
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84358402	-0.1164424689	0.0176343316	1.393310e-01	0.0053271101	-0.0030593705
843786	-0.0024001785	0.1010804263	3.344819e-02	-0.0028377493	-0.1222827647
844359	-0.0497039122	-0.0909661524	-1.428548e-01	0.0801136391	0.2774169346
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84501001	-0.2564517862	0.7160864577	1.671813e-01	-0.2158422553	-0.1346590354
845636	-0.1931514370	0.1797289643	1.239130e-04	-0.0661301394	0.1793508578
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846226	-0.0212336227	-0.2717732995	8.302672e-01	0.5694022242	0.2050807032
846381	0.0536465611	0.2250613132	1.057031e-01	-0.0118578557	0.0109923447
84667401	0.1057076291	0.0548565083	5.742781e-03	0.1230654885	-0.1363435633
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848406	-0.2344824832	-0.0800755365	-1.157460e-01	-0.0257880551	0.1982873357
84862001	-0.1000151185	0.2316735867	-1.000205e-01	-0.1851440561	0.2205773586
849014	-0.0712281618	-0.3695846503	2.874512e-02	0.3278945116	0.1650638434
8510426	-0.0042437600	-0.0571347487	2.945411e-02	0.0927005896	0.0899440626
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8510824	-0.0733857126	-0.0551410551	1.379913e-01	-0.0349132014	-0.2320428771
8511133	0.1246145246	-0.2051975642	-7.854400e-02	-0.0946139362	-0.0752040336
851509	-0.1903107396	0.1253718436	-1.521652e-01	0.1059576635	0.0372312067

852552	0.1055683715	0.1636112461	1.458986e-01	0.1809515336	0.2961245192
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852973	0.0617522965	-0.2965392069	5.075293e-02	0.2219116625	-0.3516296603
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853612	-0.1063311988	-0.2066568837	2.611420e-01	-0.1086780448	0.0057569554
85382601	-0.0434313811	-0.0112246042	5.029196e-02	0.0301623182	-0.1101463645
854002	0.6876197560	-0.0004074532	9.408438e-02	0.0229190936	-0.3765055802
854039	0.0504027758	0.2876283914	-4.554592e-02	0.0539289063	-0.0656662192
854253	0.4640921393	-0.3482940477	2.944944e-01	-0.1828347635	0.2537595842
854268	-0.1467733578	0.0054986329	1.521665e-01	0.2579466860	-0.0797662411
854941	0.2840168766	0.0526557024	1.154075e-01	0.0203929562	-0.1382255860
855133	0.4043981179	-0.1406766632	1.049883e-01	-0.3703681389	-0.3094285067
855138	0.2089804524	-0.2310395766	-4.420531e-01	0.1221456978	0.2819915427
855167	-0.1590984393	-0.1873591123	-2.090009e-01	-0.0034415007	0.0283145970
855563	-0.3980497527	-0.0355253748	1.527768e-01	-0.0471781829	0.0878759905
855625	-0.3945969239	-0.1220412364	-2.748425e-01	0.3141513454	0.0472694608
856106	0.1630859956	0.1050367727	3.885715e-03	-0.0553808770	0.1268753135
85638502	0.2582180768	-0.0426767559	-1.132296e-01	0.1022532639	-0.0436430789
857010	0.3773317635	-0.4099228882	6.112855e-02	-0.1638481544	0.0315084953
85713702	0.1342565409	0.0717443366	1.917410e-01	0.0754665502	-0.1670607979
85715	-0.0787229144	0.0699699317	-1.751332e-01	0.0339290587	0.1451632870
857155	-0.0133521503	0.0849026685	3.118708e-01	-0.0416129342	0.0848382565
857156	-0.1320383548	-0.2447116610	-1.020497e-01	-0.0408257688	0.1336454037
857343	0.0627384666	0.0519012423	1.971663e-02	-0.0571482290	-0.0566535809
857373	-0.0995524008	0.0506136205	-1.033791e-01	-0.0174916710	0.0681517454
857374	-0.0226944882	-0.0777153343	-5.233978e-03	0.0142555107	0.0315474360
857392	0.0598975865	0.2370488144	-1.119402e-01	-0.2379359159	0.0182763438
857438	-0.2251934371	-0.1844281082	-2.365515e-01	-0.0305737020	0.1680200050
85759902	-0.0017325648	0.0488467944	6.633714e-02	0.0877541039	0.0644744746
857637	0.1634300567	-0.0268306860	2.159026e-02	0.0340839741	-0.0399774989
857793	-0.0745584302	0.2344677947	-2.199298e-01	0.0578311893	-0.0745571265
857810	0.0461711930	-0.0421999111	7.051093e-02	0.0089610843	-0.0368382481
858477	0.2243181689	0.0357424595	1.926741e-01	0.0159167480	-0.1321624635
858970	-0.1276285922	-0.2168390477	3.310787e-02	0.0320732181	-0.1802871265
858981	0.1228232989	0.0935845279	8.347651e-02	0.1223396053	0.0212412139
858986	-0.1224776291	0.0173214607	6.316631e-02	-0.2338617546	-0.2075594763
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859983	0.0737021390	0.2859701894	-2.018351e-01	0.0772917781	0.1152392295
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907145	-0.1499592089	-0.1972912739	-2.082580e-01	-0.0618658693	-0.1733999073
907367	-0.1158352298	0.1689739828	2.628463e-02	0.0015121747	-0.0385982618
907409	-0.2091274316	0.0381022066	-1.465234e-01	0.0469096983	0.0093545118
90745	-0.1974883617	0.0440283053	4.286339e-02	0.0278393156	-0.0021390933
90769601	0.0280324450	0.0110752882	4.938091e-02	0.0468212235	-0.0475411497
90769602	-0.0003045670	0.1191483148	-1.473899e-02	0.0404284250	-0.0853419262
907914	-0.0168259172	-0.3294726515	2.385900e-01	0.2707826090	0.0067902695
907915	0.0019578175	-0.1048584729	5.720205e-02	0.2539090880	0.1365988878
908194	0.0540536451	-0.0444643004	1.129768e-01	-0.0536100469	-0.0569430532
908445	0.1653342497	0.1274114679	-1.384038e-01	-0.4325870571	-0.1346793532
908469	0.1146329007	-0.0027134094	-8.200389e-02	-0.1730890191	-0.0144790390
908489	-0.2200985970	0.1006178156	-1.368833e-01	0.0531833989	0.1099756348
908916	-0.0304001780	-0.0572935134	-7.070516e-02	-0.0206441474	-0.0133543585
909220	-0.1368029275	0.0061230585	-5.591505e-02	-0.0478389719	-0.0403940458
909231	-0.0793001591	0.1044417028	-3.418081e-02	-0.0147955293	0.0745168721
909410	-0.0183452898	0.0548935007	-7.683394e-06	0.0347796156	0.0111744231
909411	-0.2417576781	-0.2788907229	-1.319303e-01	0.1618054403	-0.0426221634
909445	0.1580000777	-0.1834404534	2.574778e-03	-0.2487273459	-0.1217502618
90944601	-0.0033159852	0.0138414933	-3.660394e-02	-0.0753821955	0.0326697599
909777	0.3622838313	-0.1054437191	2.685140e-01	0.2085319045	0.0217954689
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9110720	-0.0472047714	-0.1698809252	-8.004756e-02	-0.0310899162	-0.0781274310
9110732	-0.2357417239	-0.3273223560	1.015880e-01	-0.0735782071	0.1269743445
9110944	0.0849379074	-0.2163203303	9.989555e-02	-0.0959688409	0.1189539833
911150	-0.1925398869	-0.2476888300	1.373175e-01	-0.0911925502	-0.0980712992
911157302	-0.3641253423	-0.1091531039	-3.505246e-01	-0.0347264802	-0.2398896114
9111596	0.0412613134	0.1024179683	2.475709e-02	-0.0993218275	0.0363300653
9111805	0.0393921606	-0.0600020038	6.233548e-02	-0.0872772974	-0.1328996352
9111843	-0.1256036884	0.0020564443	-1.380696e-02	0.0651525401	0.0281648503
911201	-0.0210571037	0.2003246196	3.443820e-03	0.1279633849	0.0160188982

911202	0.1437709369	-0.2026671856	2.112483e-03	0.0122183789	0.0910354686
9112085	-0.0993143795	0.1125780263	-7.237572e-02	-0.0188121874	0.0219217050
9112366	0.2095251172	-0.1582811034	1.815673e-02	-0.0622779942	0.0886025652
9112367	-0.0445625200	0.0303823967	8.587958e-02	-0.0363677802	0.0095120561
9112594	0.1179109336	0.0552925203	-5.780069e-02	0.0446132547	-0.0287999708
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911320501	0.1696982514	-0.0091121369	9.413379e-02	0.0581625970	0.0813926896
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9113455	0.1916421845	-0.2013766436	1.329737e-01	-0.0714516285	-0.0844969219
9113514	0.0419869330	0.0999656989	6.741788e-02	0.0033475535	-0.0870013668
9113538	0.0680035335	0.1272163054	-2.164847e-03	-0.4699301520	0.1415257001
911366	0.0684741059	-0.1754211846	-1.375369e-01	-0.0203658968	0.0835068775
9113778	-0.1432696762	0.1050453261	-7.255567e-02	0.0628878477	-0.0102102586
9113816	0.4132059354	-0.1253744570	-2.372379e-02	0.0689106194	0.0632012566
911384	0.0801477782	-0.0994904279	-7.551916e-02	0.0231996252	0.1031441886
9113846	0.3744615653	-0.2166879487	-2.056099e-01	0.0225950366	0.1145355103
911391	-0.0028374238	-0.0024283917	3.394618e-03	0.1226650174	-0.0657781843
911408	0.2074374506	-0.1946890651	8.574414e-02	0.0375255534	-0.0176623189
911654	0.0077541911	-0.1691781741	-2.393995e-01	0.0235301019	-0.0142543889
911673	-0.1274779565	0.1059211446	-1.420760e-02	0.1274986616	-0.0504357570
911685	-0.1752435869	0.0647906068	-1.963559e-02	0.0512455781	0.1507897689
911916	0.0741405793	-0.0683683718	3.014739e-01	0.1056563632	0.0291503627
912193	-0.2908519435	-0.0150945457	-3.992097e-02	-0.0606607864	-0.1823717944
91227	-0.1718005261	0.0776043939	-1.207006e-01	-0.0681632290	0.1262100777
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912558	-0.0492504351	-0.1541041794	-1.239617e-02	-0.1114961587	0.0304119543
912600	0.1618240979	-0.1260922761	-4.885764e-03	-0.0695939217	0.0167158472
913063	-0.4459029701	-0.0955926343	2.079300e-01	0.4035059614	0.0203477558
913102	-0.1411106697	-0.0359464998	1.001449e-01	-0.0894683013	-0.0941013165
913505	-0.2558123584	0.0883016437	1.159603e-01	-0.1818387487	-0.0790781079
913512	-0.0136545293	-0.0515281909	-1.936755e-02	0.0442112419	0.1645016909
913535	0.2669916390	-0.2670016650	2.284507e-01	0.0042597084	-0.0555873751
91376701	-0.0535814976	0.0775740576	5.386731e-02	0.0309546385	-0.0198687085
91376702	-0.1135163594	0.0475542839	-1.739836e-01	-0.1444633296	-0.0339643106
914062	-0.0602203735	0.0189780745	-1.063966e-01	-0.0105156590	0.0800763820
914101	-0.0687773666	-0.1016273418	3.828534e-02	-0.0499980530	-0.1182422028
914102	-0.1582220042	0.1122348479	-7.618847e-02	-0.0213837212	-0.0990125083
914333	-0.0283047989	0.0780852815	4.581743e-02	-0.0558049130	0.0260473433
914366	0.3363330523	-0.0354564885	-7.149409e-02	0.0352965454	0.0652322179

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914769	-0.0481731383	0.1476443912	-2.255443e-01	-0.2411787219	-0.1401067009
91485	-0.3277170244	-0.0214895498	3.656111e-03	-0.0532268599	-0.0078440385
914862	0.0437030758	0.0874188865	-1.731452e-01	-0.2215054214	0.0636572848
91504	0.1413515432	0.3248988272	1.369943e-01	-0.1227243079	0.1005775264
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915186	-0.1123521419	-0.2210885176	4.119637e-01	-0.1621171978	-0.0747037425
915276	0.0311085932	-0.0043112438	-1.554371e-01	-0.1615159870	0.1462901120
91544001	0.0117125024	-0.3190203960	1.446060e-01	-0.2152535411	0.1095516050
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915452	0.0986046838	-0.0827229223	-1.284032e-01	-0.0343611021	0.0523426687
915460	-0.1798850375	-0.1992963775	6.385868e-02	-0.0463180154	0.0313154612
91550	0.0150364127	-0.0385701112	7.653051e-02	-0.1113571741	0.0360291268
915664	-0.0399284189	-0.0539012945	7.707678e-02	0.0558295772	0.0042648705
915691	-0.2665292246	-0.1931822640	-1.711874e-01	0.0110864948	0.1055062492
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916221	0.1858416020	-0.0891651817	5.090259e-02	-0.0673758027	0.0224514622
916799	0.1810812819	0.0867360333	1.384049e-01	-0.1324629140	-0.0090377647
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917092	-0.0741127018	-0.0905924637	1.342385e-01	-0.0470197036	-0.1108311481
91762702	0.0627752410	-0.0421343311	-1.723356e-01	0.0155013766	-0.0518260244
91789	-0.0824384780	0.0250013489	1.149064e-01	0.0039590058	-0.0546444196
917896	0.0249831764	-0.1507464018	-1.414050e-01	-0.1099078444	-0.0255135349
917897	-0.0373629133	0.2096402441	-8.633648e-02	0.1116312807	-0.1001301363
91805	0.0838390278	0.1079865972	3.450158e-02	0.1719735169	0.0591756828
91813701	0.3318483108	-0.2947450685	-1.906989e-01	0.0550575235	0.1471686399
91813702	-0.0007428400	-0.0794869253	-9.811836e-02	0.0489272789	-0.0264873014
918192	0.3705852161	-0.0223391489	5.075365e-01	0.0399525672	-0.1697663841
918465	0.1250829277	-0.0366604171	4.389193e-02	-0.0069134401	0.0520789685
91858	-0.2510653323	0.0340772274	-8.753856e-02	-0.0982485755	-0.1114855027
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91903902	0.1415752357	-0.1501413208	-1.183314e-01	0.0132847088	0.1539406806
91930402	0.1023467340	0.1517558697	-1.320795e-01	-0.2665377512	-0.1282250448
919537	-0.0025279486	0.1124682587	-1.477884e-01	0.0405273999	0.0306409909
919555	0.0791481775	-0.0502756205	-2.639892e-01	-0.0744509737	0.0008455486
91979701	-0.2740650665	-0.0002925086	1.707404e-01	0.1095625155	0.0994614805
919812	0.2606428739	-0.1601463771	-1.178442e-01	0.0390099169	0.0633318332
921092	-0.0413794118	-0.0604094030	-2.811241e-02	0.1403114024	-0.0330961759
921362	0.1154812600	0.2581934783	-7.793227e-02	-0.0711976819	0.0410671686

921385	0.1535435455	0.0239799396	-8.839128e-02	-0.1178975803	0.0735661058
921386	-0.0679373594	-0.1118336346	1.683499e-01	0.1715550493	0.0572524009
921644	0.0110374761	-0.1705246655	-5.717170e-02	-0.0128147660	0.1232452688
922296	-0.0656376005	0.0115407705	-1.397186e-01	-0.0441481701	-0.0402201549
922297	0.0641597728	-0.0257372276	-1.306238e-01	-0.0130286164	0.0536290674
922576	0.1105362335	0.0476875761	-8.635963e-02	-0.0603229788	0.0296765078
922577	-0.0262990959	0.0723866365	1.742109e-01	0.0600842055	-0.0903222486
922840	0.0494065172	0.0747923167	1.121067e-01	0.0931615209	-0.0064837083
923169	0.0420616613	0.1434447978	2.151116e-01	0.0669104550	-0.0548411936
923465	0.0732487201	0.0198345047	-9.193927e-02	-0.0172044830	-0.0976366593
923748	-0.0119356005	0.0136962943	-1.528663e-01	0.0443186800	0.0072493585
923780	-0.0388647303	-0.0294327168	-1.437595e-03	0.0211029594	-0.0051501501
924084	0.0994771923	-0.0523366815	-3.192496e-03	-0.0208073885	-0.0508996216
924342	0.1162426476	0.0972882879	7.659123e-02	0.1633788667	-0.1343697535
924632	0.0389261142	0.0150285734	-2.689412e-02	0.0451796495	0.0452185715
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925236	0.2548848500	-0.1344057649	-2.695888e-01	0.1253596547	0.1409818413
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925291	0.0104818333	-0.0097405680	3.344908e-02	-0.0084439272	0.0371458564
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925311	0.6438555162	-0.1160958384	-1.348357e-01	0.0778267477	0.2155456879
925622	-0.3366411323	-0.5256708725	4.037840e-01	-0.2315981974	-0.0744296594
926125	-0.2819119524	-0.0637883885	3.027516e-01	0.3971743169	0.1344740836
926424	0.0068818177	0.0669407679	8.851262e-02	-0.1078034921	-0.2193267810
926682	-0.0097931016	-0.0195459671	-5.535634e-02	-0.0860588433	-0.0011958031
926954	-0.0365600992	-0.0632967943	-2.001358e-01	0.0447797442	-0.0024266219
927241	0.1405238587	0.0424409640	1.686715e-01	0.1957966922	-0.3774982893
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	PC26	PC27	PC28	PC29	PC30
842302	-0.2013263051	-2.523629e-01	-3.388464e-02	4.560759e-02	4.712774e-02
842517	-0.0410926274	1.811108e-01	3.259550e-02	-5.682424e-03	1.866234e-03
84300903	0.0047312486	4.952586e-02	4.698448e-02	3.143131e-03	-7.498749e-04
84348301	-0.2749828222	1.833008e-01	4.244698e-02	-6.923387e-02	1.991989e-02
84358402	0.0392197801	3.213957e-02	-3.475564e-02	5.033481e-03	-2.119512e-02
843786	-0.0302723330	-8.438081e-02	7.296587e-04	-1.970400e-02	-3.456433e-03
844359	-0.0267249755	2.074464e-02	-4.673321e-02	-1.296846e-02	-5.468279e-03
84458202	-0.0594137473	6.662113e-02	2.615274e-02	-2.859407e-03	-1.696347e-03
844981	-0.0549994685	3.829073e-02	3.712728e-02	1.169858e-02	-5.276735e-03
84501001	0.3108206873	-2.849340e-03	1.356126e-01	3.775496e-02	-3.823914e-03
845636	-0.0011132902	-1.675329e-02	-1.787033e-02	-8.472303e-04	8.589286e-03
84610002	-0.0988438257	-5.025511e-02	1.672603e-02	-8.893782e-03	-2.264877e-02
846226	0.1544995990	-1.601695e-01	2.189479e-01	-4.168578e-02	-3.128057e-02

846381	0.0185216253	-6.094451e-03	-2.104929e-02	1.333681e-02	-5.901062e-03
84667401	-0.1817110172	1.686671e-01	-1.248878e-02	5.471581e-02	2.767104e-03
84799002	-0.0132177128	-1.545333e-01	-8.311679e-02	3.490813e-02	-4.127870e-03
848406	-0.0741980103	1.496604e-02	1.660988e-03	-2.340097e-02	-1.378581e-02
84862001	0.0998664510	-7.732604e-02	6.074890e-02	-9.698796e-03	-1.266565e-02
849014	0.0289918326	-5.273101e-02	-1.596623e-03	4.840404e-02	5.987472e-03
8510426	0.0314450550	-5.423713e-02	9.789698e-03	7.673122e-03	1.840938e-03
8510653	0.0355362005	-9.840364e-02	-1.503860e-02	-1.881974e-02	-1.131431e-02
8510824	-0.0038246508	4.633703e-02	-1.209599e-02	-6.511882e-03	-8.590024e-03
8511133	-0.1164538409	-2.216492e-02	1.015524e-03	-1.634073e-02	1.872530e-02
851509	0.0916050281	1.468242e-01	6.867301e-02	1.786932e-02	1.386952e-02
852552	-0.0874379704	-1.431175e-01	3.447092e-03	-2.255543e-02	-3.999663e-03
852631	-0.0677237649	-4.147013e-02	-2.951161e-02	-1.657229e-02	-3.178130e-03
852763	-0.0357830509	6.090625e-02	-2.388746e-02	5.642173e-03	-1.339863e-02
852781	-0.0483807591	7.474866e-02	-1.755439e-02	2.208178e-02	-8.553100e-03
852973	-0.0463898691	-2.400501e-01	-1.852092e-01	-1.492340e-02	9.578804e-04
853201	0.0860853392	-1.294573e-01	1.125290e-02	3.714214e-02	2.014350e-03
853401	0.1964367931	-2.131927e-01	-9.860072e-02	2.126908e-02	1.608133e-02
853612	0.0582729648	-2.306134e-01	-1.768593e-01	-7.475334e-02	-1.128161e-03
85382601	-0.1339382974	-1.253022e-01	1.125350e-01	-4.434909e-03	1.886774e-03
854002	-0.0291953182	4.075234e-02	1.254330e-02	1.420997e-02	-1.165588e-02
854039	0.0209466264	-2.240063e-02	4.957060e-02	5.795811e-03	-3.132503e-02
854253	0.0848362899	1.615390e-01	-1.339550e-02	3.934955e-02	3.490852e-03
854268	-0.0342079425	-6.060832e-02	-1.122619e-01	6.738025e-02	1.370542e-02
854941	-0.0875148451	-1.650241e-01	-3.219827e-02	-1.617018e-02	5.144779e-04
855133	0.1758886282	1.604604e-01	5.386968e-02	1.842240e-01	1.989133e-02
855138	-0.1021726527	1.289034e-01	-7.427828e-02	2.945002e-02	2.146481e-03
855167	-0.0714635560	7.019861e-02	1.158537e-02	-2.247350e-02	-1.566702e-02
855563	0.1507064526	-3.820128e-03	-4.882003e-02	2.547541e-03	2.308071e-03
855625	-0.0097682136	-2.479041e-02	-7.096251e-02	-1.155836e-02	1.589353e-02
856106	0.0612412639	-1.019745e-01	-1.370845e-03	-7.961068e-02	-1.397809e-02
85638502	-0.0171718343	-4.877762e-02	1.425226e-02	-7.139958e-02	-1.085998e-02
857010	0.1332320422	1.573983e-02	5.422979e-02	-6.387622e-03	-7.213235e-03
85713702	0.1425991752	5.474195e-02	-1.825670e-02	-2.922901e-02	-2.649774e-03
85715	0.0028553147	1.498919e-02	1.783116e-02	3.335616e-02	-1.785149e-03
857155	0.1324480590	-2.199369e-03	3.816358e-03	-1.275649e-02	-8.411835e-04
857156	0.0241950429	3.299221e-02	-8.502787e-03	-1.188563e-02	-2.865884e-03
857343	-0.0209776680	6.139058e-02	-9.541691e-03	1.959516e-02	4.711585e-04
857373	-0.0739111736	3.792347e-02	-1.418360e-02	2.929794e-02	7.270380e-03
857374	-0.0893671777	-1.803353e-02	4.758468e-03	-2.715377e-04	1.642671e-03
857392	-0.0606178187	-2.190753e-02	-4.764801e-02	3.402123e-02	1.303268e-02
857438	-0.1075797759	1.268873e-01	2.923216e-03	1.113450e-02	-4.343678e-03
85759902	-0.0058355492	2.774052e-02	1.416855e-02	2.401521e-03	-1.940349e-03

857637	-0.0722065369	-8.119004e-02	7.271206e-02	1.327148e-02	4.135286e-03
857793	-0.1343191246	2.950093e-02	5.444365e-02	4.011741e-03	1.659040e-02
857810	-0.0691174690	8.049384e-04	2.627152e-02	4.565142e-03	6.788361e-03
858477	0.0400160356	-1.686265e-02	-1.071847e-02	1.590382e-02	-6.883016e-03
858970	0.0568714092	7.112930e-02	8.806180e-03	1.288489e-02	6.812673e-03
858981	0.0788845808	2.201995e-01	-2.946023e-02	-1.562093e-02	5.269029e-03
858986	-0.0098332379	-1.134152e-03	9.638361e-02	2.795349e-03	-1.901582e-02
859196	0.0335429502	5.289948e-02	-8.110426e-02	-1.615960e-02	-1.141707e-02
85922302	-0.0290360085	-1.228215e-01	9.356070e-03	-8.243027e-02	-4.849783e-03
859283	0.0465312637	-1.922755e-01	1.659535e-02	6.820462e-03	3.908128e-03
859464	0.0604134233	9.187789e-02	-1.975320e-02	9.282008e-03	5.559412e-03
859465	0.0761632336	-9.449785e-03	3.607516e-02	1.644550e-02	3.225830e-03
859471	0.2804283970	-2.445271e-02	6.842730e-03	7.394054e-03	-1.258908e-02
859487	0.0091579194	-5.251089e-02	1.240814e-02	1.391723e-02	6.642330e-03
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859711	0.0533337084	1.533702e-01	2.941771e-02	-5.665631e-03	-1.872210e-03
859717	-0.0797672858	1.517182e-02	8.814363e-02	-3.560637e-02	-2.146240e-02
859983	-0.0717088123	-3.146387e-02	-4.010897e-02	-4.737433e-02	-9.918869e-03
8610175	-0.0169312595	5.540068e-02	3.076006e-02	-2.228666e-02	-2.118429e-02
8610404	-0.0026046375	-9.489266e-02	2.564001e-02	-5.653385e-04	-5.060816e-04
8610629	0.0207984498	-1.733530e-01	5.676664e-02	3.943605e-02	2.590542e-04
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8610862	-0.0292208810	-4.654883e-02	5.126402e-02	3.512806e-02	-7.332746e-02
8610908	0.0603063922	7.898511e-02	1.797480e-02	7.861041e-03	-4.882806e-03
861103	-0.0093357855	-4.725720e-02	-2.313927e-02	-4.685092e-03	-5.544045e-03
8611161	0.1263341389	-1.278413e-01	7.181074e-02	-8.010741e-02	8.607098e-03
8611555	0.1532547175	2.065368e-01	-6.524724e-02	-2.149175e-02	6.506712e-03
8611792	0.0648110159	-2.543076e-01	1.221035e-01	1.212184e-04	-1.076054e-02
8612080	0.0007406985	4.610443e-02	-3.731944e-04	-1.674579e-02	-8.527853e-03
8612399	-0.0331782104	-7.289186e-02	-4.793390e-02	-1.125719e-02	-1.093361e-02
86135501	-0.0897923772	3.869966e-02	1.113252e-02	-1.599296e-02	9.423312e-03
86135502	0.0997869683	-2.630915e-02	5.753144e-02	-1.604379e-01	3.833652e-02
861597	0.0314408018	-5.616749e-03	-1.563489e-02	1.027323e-02	6.715216e-03
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861853	-0.0569819083	2.149318e-02	2.606583e-03	-6.390703e-02	-1.160386e-02
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862028	-0.0497851056	-4.559731e-02	4.608258e-02	-1.812182e-02	-1.283830e-02
86208	0.1201800560	4.208440e-02	3.674203e-03	-2.057035e-02	5.126475e-03
86211	-0.0506141608	-5.027953e-02	-2.802634e-02	3.203650e-03	-4.353658e-04
862261	-0.0312503688	7.193844e-02	-9.341616e-03	2.552925e-03	-1.402809e-02
862485	0.0844032885	-1.349955e-01	9.281856e-03	4.750116e-03	-3.466455e-03

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862717	-0.0025631120	1.356357e-03	1.644737e-02	-3.823881e-02	-9.833806e-03
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862965	-0.0140467040	3.459111e-02	2.954355e-04	1.254899e-02	-2.957340e-04
862980	0.1847666902	5.359975e-02	-8.938925e-03	-3.344707e-03	3.673153e-03
862989	0.0211923117	5.879791e-02	-1.571216e-02	-1.570264e-02	-8.774836e-03
863030	-0.0232042053	4.932440e-02	1.155743e-02	-1.955738e-02	2.994340e-03
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863270	0.0606735954	-1.540510e-02	2.302233e-02	2.966592e-02	2.369330e-03
86355	-0.3282574905	7.597204e-02	-4.208036e-02	5.752181e-03	1.961708e-02
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864726	0.0777033458	1.294349e-01	7.314377e-02	-2.121766e-02	-3.512427e-03
864729	-0.1234132759	-1.703396e-02	1.368415e-03	-4.179289e-03	6.831538e-03
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865128	0.1309244119	1.540883e-02	4.173716e-02	-6.394356e-03	3.945424e-02
865137	0.0508063449	-6.447124e-02	7.984368e-03	8.721731e-03	-1.275857e-02
86517	-0.1525315195	-6.004771e-02	3.475692e-02	9.488712e-03	2.183874e-02
865423	-0.2229870539	-2.472825e-02	-1.010000e-01	4.103202e-02	-2.125541e-04
865432	0.0418498033	-2.909973e-02	-1.592235e-02	1.748397e-02	5.563332e-03
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86561	-0.1121602734	-1.161802e-02	-1.407714e-02	-1.884080e-02	3.161868e-03
866083	-0.0257506726	-1.393456e-01	-5.830674e-02	-5.148794e-02	-8.016295e-03
866203	0.0876668247	2.343153e-02	5.135429e-03	-2.716794e-02	-3.988293e-04
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86730502	-0.0528996064	4.515608e-02	-1.839276e-02	-7.431547e-03	-5.422633e-03
867387	-0.0282699050	-1.184145e-02	-2.195837e-02	-1.263740e-02	-4.758611e-03
867739	0.1191672859	-3.904577e-02	1.757057e-02	1.638597e-02	-1.846504e-03
868202	-0.0227364289	-4.455291e-02	6.116922e-03	1.501203e-02	-7.453719e-03
868223	0.0238785713	7.539973e-02	-1.181029e-03	-1.745342e-02	-3.718782e-03
868682	0.0453529768	3.918415e-02	-9.718923e-03	-6.407847e-04	-8.921861e-04
868826	-0.0046654928	1.410890e-01	-3.285330e-02	4.483727e-02	2.993330e-02
868871	0.1495819096	1.751436e-02	-4.783602e-02	-2.357881e-02	-2.338267e-04
868999	-0.0077814350	4.950486e-02	7.386867e-03	-1.029275e-03	-2.315401e-03
869104	0.0199857883	-9.378889e-02	5.731649e-03	-5.278943e-03	-5.891067e-03

869218	0.0049677942	5.801943e-02	-2.392725e-02	-1.320679e-02	-4.310563e-03
869224	0.0043929369	-3.683012e-02	-2.305639e-02	1.838762e-02	-1.360631e-03
869254	0.0495119056	4.722858e-02	-1.055344e-02	-1.275491e-02	2.378069e-03
869476	-0.0263294206	-6.201771e-02	2.591795e-02	1.040242e-02	-1.781949e-02
869691	-0.0862135434	1.222878e-01	-8.321784e-03	2.277179e-03	-1.119635e-02
86973701	-0.0493239513	-3.627953e-03	2.379318e-02	-1.808326e-03	9.272048e-04
86973702	-0.0490175920	-2.581647e-02	-3.235618e-02	1.251382e-02	4.893394e-03
869931	-0.0423402825	5.330201e-02	3.199615e-02	-1.397318e-02	-9.593652e-03
871001501	-0.0734031813	-3.077032e-03	1.873760e-02	4.537366e-03	-8.726467e-03
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8710441	-0.1390340354	-2.638579e-02	-3.366712e-02	1.779878e-02	-1.574621e-03
87106	-0.0365289819	-1.101000e-02	3.811133e-03	1.088321e-02	-7.351056e-03
8711002	-0.1315499734	2.241155e-02	-1.438139e-02	2.428473e-02	1.113668e-04
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8711202	0.0059292226	-7.990834e-02	1.053452e-01	1.097157e-02	-1.879966e-03
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871122	-0.0347925369	5.128014e-02	1.544007e-03	1.585498e-02	-3.662968e-03
871149	0.0320333494	9.611557e-02	1.100796e-02	9.278600e-03	3.250644e-03
8711561	0.1625166960	1.062510e-02	3.867946e-02	9.830449e-03	1.758741e-02
8711803	0.1833278621	-6.514273e-02	-4.949089e-02	-3.143983e-04	-1.024462e-02
871201	0.0466382547	4.488584e-02	9.110442e-02	1.485736e-03	-1.312096e-02
8712064	-0.0778884859	-1.494685e-02	1.326543e-02	4.271208e-03	-3.692513e-03
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87127	-0.0022116006	-3.659396e-02	1.749325e-02	1.437802e-02	-3.555458e-03
8712729	0.0111851727	-5.483086e-02	9.163004e-03	-1.515471e-02	-1.308248e-02
8712766	-0.1128389699	4.360550e-02	-2.252514e-03	-4.939426e-03	7.403680e-03
8712853	0.0047133540	-4.722385e-02	9.407798e-03	3.756833e-03	5.469545e-03
87139402	0.0058479819	-5.422273e-02	1.519286e-02	-1.626943e-02	-1.424677e-03
87163	-0.0621792689	-4.679305e-02	-2.794307e-02	-8.322050e-02	-9.724531e-04
87164	-0.0204716584	-2.174815e-01	8.286055e-03	-1.945686e-02	-1.449219e-03
871641	-0.1283484525	-2.105483e-01	-1.812564e-02	-3.558919e-02	-1.771539e-04
871642	-0.0652630427	2.760698e-02	1.000593e-02	4.358827e-03	-7.483755e-03
872113	0.0316665578	7.087026e-02	5.732845e-03	6.943427e-03	-4.316588e-03
872608	-0.0130124597	9.505262e-03	2.489507e-02	-3.715104e-02	-1.768256e-03
87281702	0.0149367843	-3.373768e-02	-2.874672e-02	4.494640e-02	6.648435e-03
873357	-0.0565577633	-3.716741e-02	1.515057e-02	-5.631381e-03	7.259187e-03
873586	-0.1181480118	-4.202926e-02	-2.804052e-03	2.235523e-02	-3.575397e-03
873592	0.5075073909	3.875397e-01	-3.649879e-02	-4.817298e-02	-1.234021e-02
873593	0.1715237713	1.077659e-02	1.370693e-01	1.607476e-02	-4.130650e-03
873701	-0.0408188409	-1.855354e-02	5.026622e-02	-2.081737e-02	-6.144694e-03
873843	-0.0032329462	4.783222e-02	-5.100500e-02	-6.710928e-03	-1.311918e-02
873885	0.0566462354	-4.700916e-02	5.079073e-02	-1.107745e-03	-3.410878e-03

874158	0.0326076649	7.283462e-02	7.799828e-03	4.257019e-03	-6.436029e-03
874217	0.0970624158	4.300686e-02	2.557256e-02	3.511308e-03	4.228434e-03
874373	0.0030832009	2.037473e-02	-1.368604e-02	8.753567e-03	1.345992e-03
874662	0.0059062159	-1.096237e-02	-8.635239e-03	1.119167e-02	-4.636712e-03
874839	0.0290239084	2.453131e-02	1.775126e-02	-1.022940e-02	8.378152e-03
874858	0.0639676895	-4.746824e-02	4.534134e-02	1.788060e-02	3.942582e-02
875093	0.0691856368	-1.014548e-02	9.965295e-03	4.872696e-02	-1.213839e-03
875099	-0.1193609214	-5.010956e-02	-4.591822e-02	-1.193226e-02	-3.963558e-03
875263	-0.0723515248	1.223090e-02	7.793775e-03	-2.935833e-02	-1.693386e-02
87556202	0.0957203640	-1.086967e-01	-1.582959e-03	1.441066e-02	1.349096e-02
875878	-0.0043906404	-2.636426e-02	9.351632e-03	2.336560e-02	1.097957e-03
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877159	-0.0125777667	-5.077927e-02	-6.943705e-03	2.010879e-03	7.766158e-03
877486	-0.0457090424	4.732110e-04	-1.101138e-01	5.298756e-03	-1.730179e-02
877500	-0.0387661993	2.856540e-02	8.960081e-02	-4.193797e-03	-1.195863e-02
877501	0.0406861821	-4.063331e-02	1.658042e-02	-2.740055e-02	-6.035120e-03
877989	0.0628321938	1.662944e-03	-5.740479e-02	-9.416140e-03	6.126064e-04
878796	0.0356893819	3.128748e-01	-1.007465e-01	-8.529045e-04	-3.819438e-02
87880	-0.0522821695	-1.586622e-01	2.118169e-02	-2.050653e-02	1.151177e-03
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879523	-0.0442994933	-1.772295e-02	-1.493651e-03	1.711604e-02	-1.574921e-02
879804	0.1136387746	1.087258e-01	1.246010e-02	1.874143e-02	1.204608e-03
879830	0.0194917676	-6.808987e-02	-4.364781e-03	-1.874407e-02	1.185807e-02
8810158	0.0266412052	-1.522403e-01	-4.513389e-02	3.041498e-02	-1.748377e-02
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881046502	0.0899645237	7.156408e-02	2.004215e-02	-1.900426e-02	4.412764e-02
8810528	-0.0129848991	3.220875e-02	6.694608e-03	-1.558529e-03	2.875884e-03
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8810955	-0.0569743952	-6.261779e-02	-4.860221e-03	-5.786062e-03	1.020700e-02
8810987	0.1237499184	-8.195971e-02	1.529261e-02	6.937451e-03	2.619794e-03
8811523	0.1225618939	2.156147e-03	5.564389e-03	-3.560424e-03	-9.562893e-03
8811779	0.0207754683	5.065478e-02	-1.366777e-02	-2.066266e-02	-6.442102e-03
8811842	0.0647228635	-4.574542e-02	-1.722227e-02	-3.308224e-02	7.010155e-03
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8812818	0.0376677232	-6.505149e-02	-8.533465e-03	4.279110e-03	6.539797e-03
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8812877	-0.1152719999	-7.936990e-02	3.918948e-02	-6.909967e-02	-9.875805e-03
8813129	-0.0307382236	-6.048268e-03	-2.004751e-02	7.491103e-03	4.944308e-03
88143502	0.0038497261	-3.295088e-02	1.592811e-02	-7.082278e-03	-2.641670e-03
88147101	0.0417846570	1.014432e-01	-1.676444e-02	-2.230372e-02	-1.486683e-03
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88147202	0.0421147176	4.962457e-02	2.486351e-02	2.865424e-02	-1.872174e-02
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88203002	-0.0181151448	2.843831e-02	-1.654791e-03	1.080407e-03	4.042317e-03
88206102	0.0042149614	1.146302e-01	-2.067239e-02	-6.311137e-03	6.009812e-03
882488	0.0118534104	-4.761135e-04	-1.400283e-02	1.197801e-02	-4.726901e-03
88249602	-0.0850496766	5.335101e-02	-4.697283e-03	6.637333e-03	4.165397e-03
88299702	0.2409967021	2.607101e-02	4.560323e-02	8.437318e-02	1.316171e-02
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883270	-0.0523829446	-4.076603e-02	-6.505627e-03	-2.591461e-03	7.136696e-03
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884448	-0.0014005785	-4.654162e-02	1.083157e-02	3.151084e-02	-1.264109e-03
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88466802	0.0713281560	3.797545e-02	-2.621500e-02	-8.606330e-03	-1.208039e-03
884689	0.0647306238	5.543553e-02	1.748686e-02	9.221382e-03	-1.937773e-03
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88649001	0.1694749187	-1.452418e-01	-4.223670e-02	1.760845e-02	-4.754179e-02
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8910988	0.1490111178	1.779051e-02	-4.740955e-02	1.222139e-02	-3.728448e-02
8910996	0.0327419876	8.148477e-03	8.654636e-03	-1.952291e-03	-6.147097e-03
8911163	0.0087349948	-2.586902e-02	-1.982127e-02	-2.952873e-02	1.231110e-02
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8912049	0.0240789261	-2.159175e-02	-3.065026e-02	3.221432e-02	2.504987e-02
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891716	-0.0032333996	-2.579634e-03	-1.410404e-02	1.057191e-02	5.048132e-03
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892399	-0.0273016481	-5.583721e-02	1.780719e-02	-1.012395e-02	4.592012e-03
892438	-0.0282443641	8.385431e-02	7.402991e-03	7.987707e-03	-4.376741e-03
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89263202	0.0373782196	-2.276784e-01	3.191511e-02	5.069162e-02	-1.893042e-02
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897137	-0.0749311508	-1.986689e-02	-1.359114e-02	-2.684112e-02	-6.402074e-03
897374	-0.0922219954	-3.415178e-02	3.056143e-03	4.059287e-03	1.703195e-03
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897604	-0.0506882579	-8.548810e-02	-1.602747e-02	2.834650e-02	-1.060789e-02
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897880	0.0907475852	8.765723e-02	-1.804617e-02	-3.272880e-03	-1.065327e-02
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89813	-0.0287432556	-2.310408e-02	1.206153e-03	6.776529e-03	-9.223971e-03
898143	0.0820478379	-8.139339e-02	-9.096609e-03	-2.153234e-02	1.767722e-03
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898677	-0.0469050590	-6.562686e-03	-1.751468e-02	3.580715e-04	-5.815751e-03
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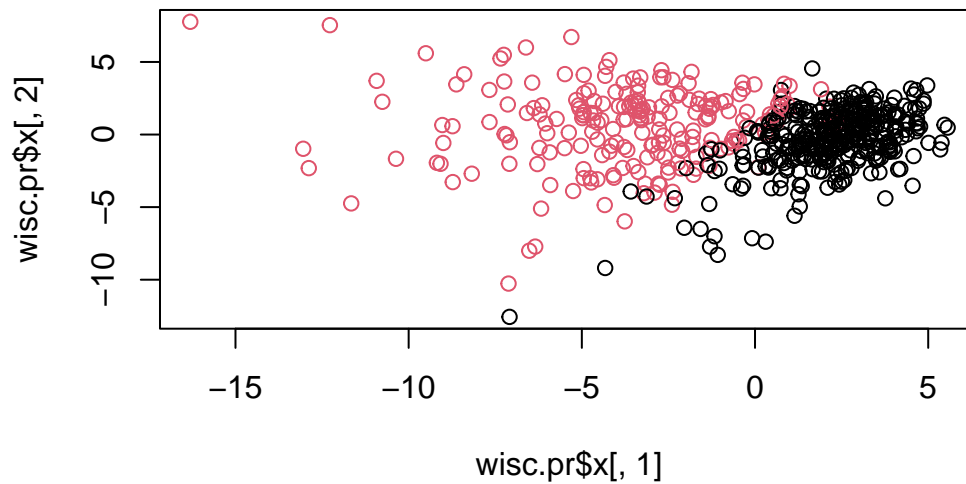
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917896	-0.1061345671	4.966193e-03	-6.582652e-03	4.193781e-02	7.898565e-03
917897	0.0664531179	-2.655619e-02	-2.136312e-02	-9.637608e-03	2.497448e-03
91805	0.0886147194	1.155966e-01	-5.229288e-02	1.076846e-02	1.449954e-03
91813701	0.0330021360	8.336065e-02	-5.061548e-03	3.298927e-02	5.387830e-04
91813702	0.0181336410	4.282084e-02	3.040698e-02	1.508284e-02	-7.330015e-03
918192	-0.0934720894	-5.020254e-02	4.171083e-02	-7.809330e-03	-9.193665e-05

918465	0.0288790490	-5.652693e-02	-1.947227e-03	1.611639e-03	-4.255828e-03
91858	0.0424242869	9.025177e-03	-1.623234e-02	6.269355e-03	-8.871060e-04
91903901	0.0931826121	-3.654002e-02	4.324270e-03	4.165806e-03	-1.106227e-03
91903902	-0.0830740552	1.658681e-02	1.150422e-02	-1.563064e-02	-6.663151e-03
91930402	0.1480707171	8.699232e-03	-5.961362e-02	-1.044751e-02	-6.141284e-03
919537	0.0728753384	1.259825e-02	-9.518713e-03	9.373100e-03	-3.095154e-03
919555	0.1536070303	-3.265112e-02	2.996697e-02	8.171708e-03	-3.458037e-02
91979701	-0.0487762627	5.821042e-02	1.015633e-02	2.035367e-02	9.738559e-03
919812	0.0329233687	-1.804282e-02	-2.169062e-02	-2.378939e-02	8.893677e-03
921092	0.1468627182	7.253893e-02	-8.746899e-03	-1.161071e-02	9.286171e-03
921362	0.1812441331	7.132198e-03	1.665571e-03	-5.739799e-02	3.679201e-02
921385	-0.0295036155	-8.523727e-03	-8.796157e-03	-2.463757e-03	9.112497e-05
921386	-0.0987152511	2.575798e-03	-1.994940e-02	8.161193e-03	-1.262046e-02
921644	-0.0565374950	1.610918e-02	-1.295072e-02	-2.390649e-02	4.092165e-03
922296	0.0568923371	-7.840121e-02	-1.162042e-02	3.505356e-03	-6.121733e-03
922297	-0.0542291424	-8.247547e-02	-8.960736e-03	1.302883e-02	4.772981e-03
922576	-0.0678745818	-1.961314e-02	-6.487119e-03	-4.750888e-03	-3.114620e-03
922577	0.0125381679	4.498783e-02	5.470187e-03	-7.783998e-03	-4.507372e-03
922840	0.0313546289	-4.161718e-02	-2.705643e-03	9.706143e-03	3.657914e-03
923169	0.1006525985	5.511332e-02	-8.274135e-04	-2.590615e-02	8.789459e-04
923465	-0.0007909619	3.418774e-02	6.937288e-05	-2.145122e-02	-4.134624e-03
923748	-0.0163685109	-1.107701e-02	2.770954e-02	1.795767e-02	8.260042e-03
923780	-0.0014215153	5.637368e-02	-3.381745e-03	3.849594e-03	-1.779362e-03
924084	-0.1022492547	-9.323360e-03	5.913651e-04	1.263059e-02	-7.162542e-03
924342	0.0044220903	4.297202e-03	-9.650436e-03	-1.615592e-02	-1.435061e-03
924632	0.0024994349	-7.130661e-02	4.473723e-02	1.560585e-02	1.385123e-03
924934	0.0938320141	3.896512e-02	-1.164274e-02	-1.431460e-03	6.878081e-03
924964	0.0152530115	-3.226473e-03	2.268760e-03	-1.799952e-02	-4.947889e-05
925236	0.1510723322	1.702667e-01	3.413466e-02	3.102528e-02	8.728220e-03
925277	0.0407493494	3.978350e-02	-1.130892e-02	4.068695e-03	-6.920526e-03
925291	0.0599659983	-3.787753e-02	2.037519e-02	-3.413149e-04	1.269775e-02
925292	0.0968312180	-1.392626e-02	2.900866e-02	1.731854e-03	4.328273e-03
925311	0.0041827618	2.209661e-02	7.486086e-03	-3.107530e-04	5.831723e-03
925622	0.2037854413	-1.474368e-01	-1.245986e-01	9.015380e-03	-7.118296e-03
926125	-0.0729289516	1.450989e-01	-3.945551e-02	7.014761e-02	7.638391e-03
926424	-0.1227922446	1.590577e-01	9.843968e-03	7.112909e-03	1.413613e-03
926682	0.0658312978	-6.845211e-02	-2.355466e-02	-2.746212e-02	1.041027e-02
926954	0.0070890278	-2.367063e-02	-2.575490e-03	6.700316e-03	-3.767102e-03
927241	-0.1980178555	-2.738532e-02	-6.802653e-02	-8.408929e-02	2.376191e-02
92751	0.3468098821	1.272691e-01	-9.507513e-03	-6.085956e-02	1.945846e-02

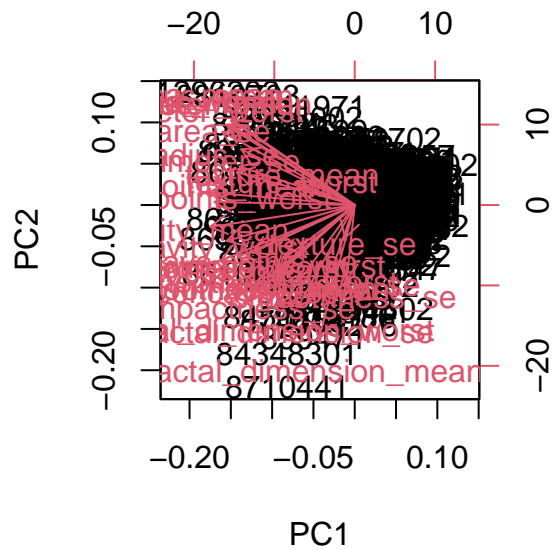
```
#plot(wisc.pr$x)
```

```
plot(wisc.pr$x[,1],wisc.pr$x[,2],  
     col=as.factor(diagnosis))
```



```
pca_result <- prcomp(wisc.data, scale = TRUE)
```

```
#create a biplot  
biplot(pca_result)
```



#something that stands out are the overlapping in the plot. It is hard to understand because

Q7. What stands out to you about this plot? Is it easy or difficult to understand? Why?

Each dot represents a patient. It is hard to understand because there is no visible relationship in the plot.

Q4. From your results, what proportion of the original variance is captured by the first principal components (PC1)?

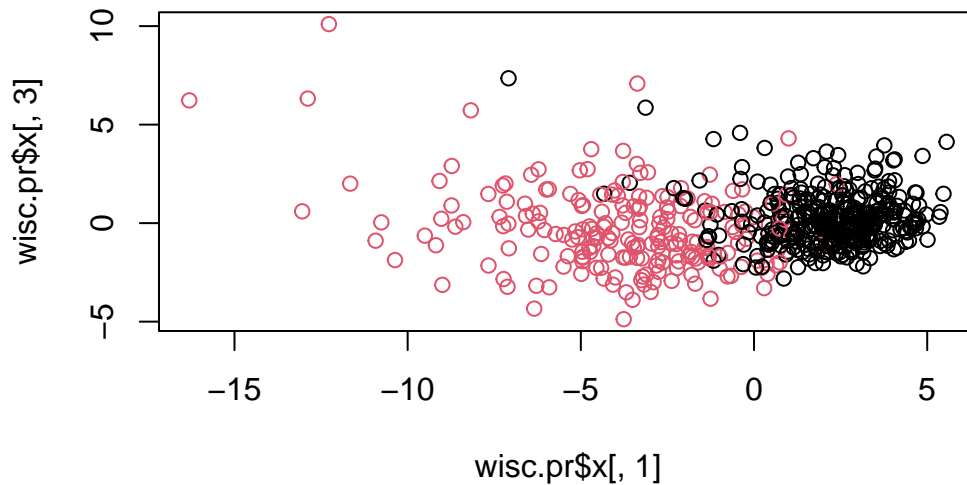
Q5. How many principal components (PCs) are required to describe at least 70% of the original variance in the data?

Q6. How many principal components (PCs) are required to describe at least 90% of the original variance in the data?

Q7. What stands out to you about this plot? Is it easy or difficult to understand? Why?

Q8. Generate a similar plot for principal components 1 and 3. What do you notice about these plots?


```
plot(wisc.pr$x[,1],wisc.pr$x[,3],
     col=as.factor(diagnosis))
```



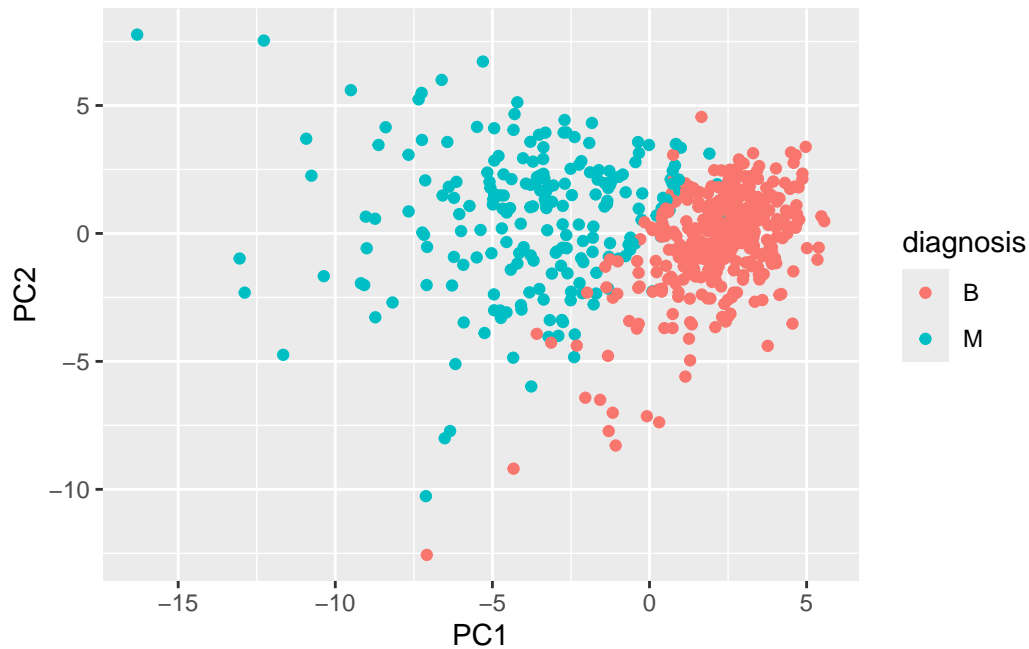
These plots are quite similar but show a different principal component.

Q9. For the first principal component, what is the component of the loading vector (i.e. `wisc.pr$rotation[,1]`) for the feature `concave.points_mean`?

```
df <- as.data.frame(wisc.pr$x)
df$diagnosis <- diagnosis

library(ggplot2)

ggplot(df) +
  aes(PC1, PC2, col = diagnosis) + # Use 'diagnosis' to color points
  geom_point()
```



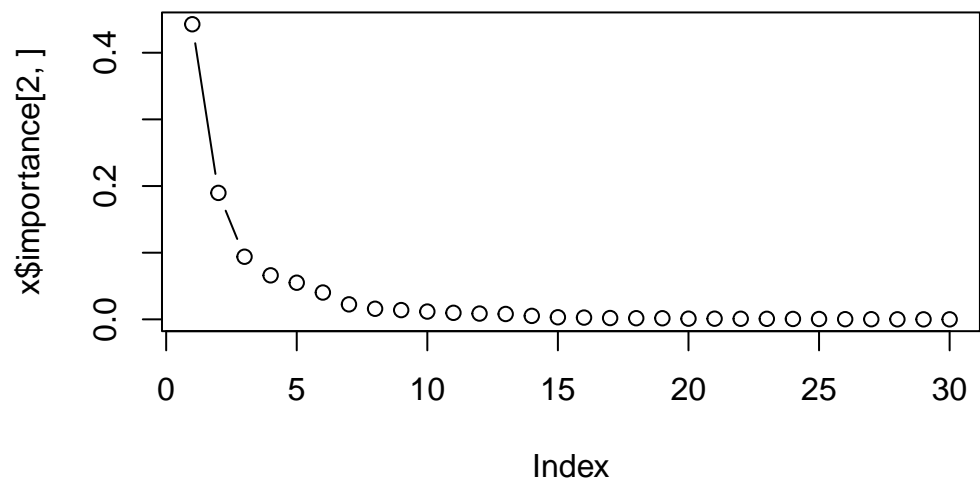
Q10. What is the minimum number of principal components required to explain 80% of the variance of the data?

Q11. Using the `plot()` and `abline()` functions, what is the height at which the clustering model has 4 clusters?

Q12. Can you find a better cluster vs diagnoses match by cutting into a different number of clusters between 2 and 10?

Q13. Which method gives your favorite results for the same `data.dist` dataset? Explain your reasoning.

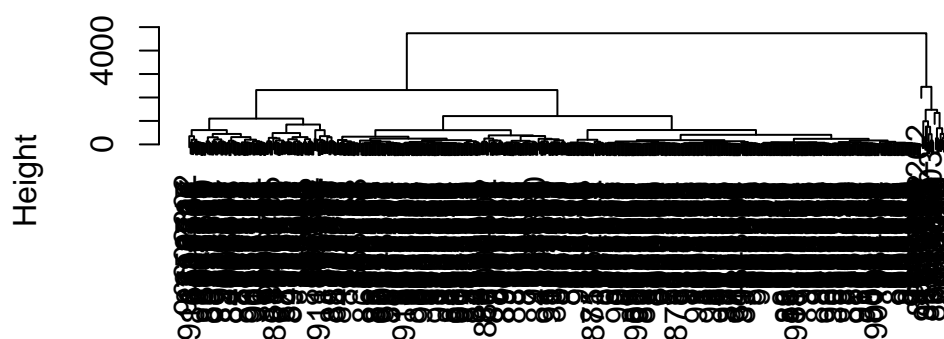
```
x<- summary(wisc.pr)
plot(x$importance[2,], typ="b")
```



Clustering

```
d<- dist(wisc.data)
hc.raw<-hclust(d)
plot(hc.raw)
```

Cluster Dendrogram



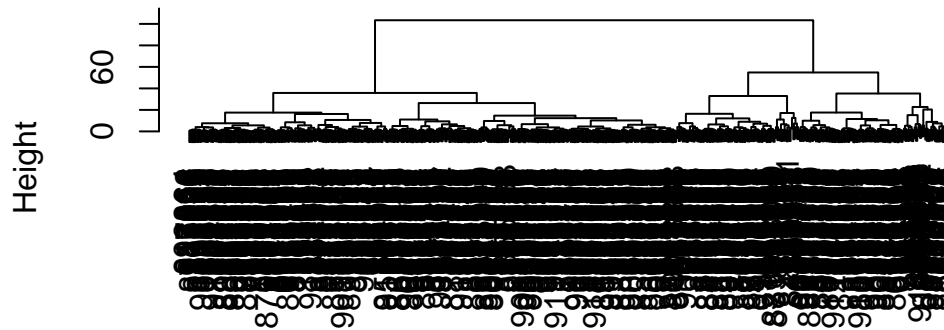
```
d  
hclust (*, "complete")
```

Combine PCA and clustering

Our PCA results were in `wisc.pr$x`

```
#distance matrix from PCA result  
d <- dist(wisc.pr$x[,1:3])  
hc<- hclust(d, method="ward.D2")  
plot(hc)
```

Cluster Dendrogram

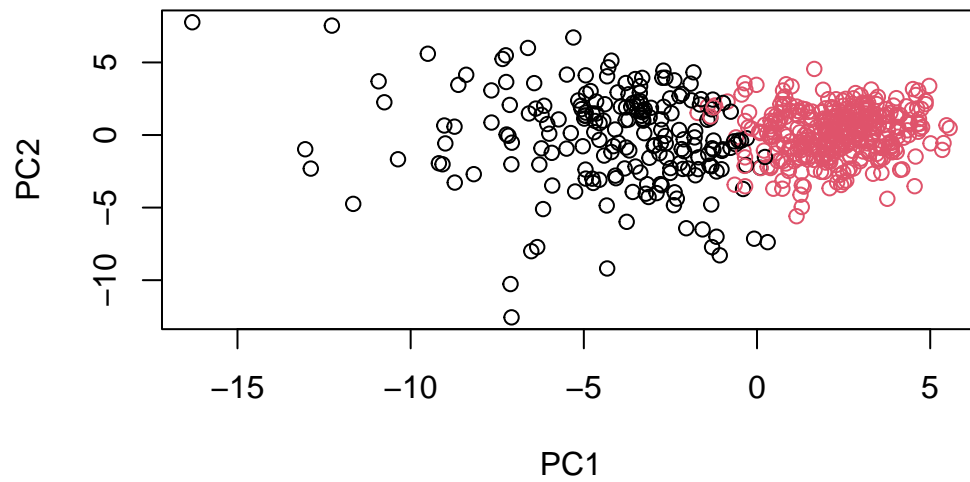


d
hclust (*, "ward.D2")

Cutree into two groups/branches/clusters...

```
grps<- cutree(hc, k=2)
```

```
plot(wisc.pr$x, col=grps)
```



Compare my clustering result(my `grps`) to the expert diagnosis

```
table(diagnosis)
```

```
diagnosis
  B   M
357 212
```

```
table(grps)
```

```
grps
 1   2
203 366
```

```
table(diagnosis,grps)
```

```
      grps
diagnosis 1   2
  B   24 333
  M 179   33
```

B= benign M=malignant

Individual 2.