

Class 8: PCA Mini Project

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

```
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

```
colMeans(mtcars)
```

mpg	cyl	disp	hp	drat	wt	qsec
20.090625	6.187500	230.721875	146.687500	3.596563	3.217250	17.848750
vs	am	gear	carb			
0.437500	0.406250	3.687500	2.812500			

```
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 prior to PCA...

Breast Cancer Biopsy Analysis

```
# Save your input data file into your Project directory
fna.data <- "WisconsinCancer.csv"

# Complete the following code to input the data and store as wisc.df
wisc.df <- read.csv("WisconsinCancer.csv",
                    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
842517	0.1812		0.05667	0.5435	0.7339
84300903	0.2069		0.05999	0.7456	0.7869
84348301	0.2597		0.09744	0.4956	1.1560
84358402	0.1809		0.05883	0.7572	0.7813
843786	0.2087		0.07613	0.3345	0.8902
	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
```

Remove this first `diagnosis` column from the dataset as I don't want to pass this to PCA etc. It is 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			

Exploratory data analysis

Q1. How many observations are in this dataset?

569 observations

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

212 observations

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

10 variables

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

```
[1] 10
```

Principal Component Analysis

```
# Check column means and standard deviations  
colMeans(wisc.data)
```

radius_mean	texture_mean	perimeter_mean
1.412729e+01	1.928965e+01	9.196903e+01
area_mean	smoothness_mean	compactness_mean
6.548891e+02	9.636028e-02	1.043410e-01
concavity_mean	concave.points_mean	symmetry_mean
8.879932e-02	4.891915e-02	1.811619e-01
fractal_dimension_mean	radius_se	texture_se
6.279761e-02	4.051721e-01	1.216853e+00
perimeter_se	area_se	smoothness_se
2.866059e+00	4.033708e+01	7.040979e-03
compactness_se	concavity_se	concave.points_se
2.547814e-02	3.189372e-02	1.179614e-02
symmetry_se	fractal_dimension_se	radius_worst
2.054230e-02	3.794904e-03	1.626919e+01
texture_worst	perimeter_worst	area_worst
2.567722e+01	1.072612e+02	8.805831e+02
smoothness_worst	compactness_worst	concavity_worst
1.323686e-01	2.542650e-01	2.721885e-01

concave.points_worst	symmetry_worst	fractal_dimension_worst
1.146062e-01	2.900756e-01	8.394582e-02

```
apply(wisc.data,2,sd)
```

radius_mean	texture_mean	perimeter_mean
3.524049e+00	4.301036e+00	2.429898e+01
area_mean	smoothness_mean	compactness_mean
3.519141e+02	1.406413e-02	5.281276e-02
concavity_mean	concave.points_mean	symmetry_mean
7.971981e-02	3.880284e-02	2.741428e-02
fractal_dimension_mean	radius_se	texture_se
7.060363e-03	2.773127e-01	5.516484e-01
perimeter_se	area_se	smoothness_se
2.021855e+00	4.549101e+01	3.002518e-03
compactness_se	concavity_se	concave.points_se
1.790818e-02	3.018606e-02	6.170285e-03
symmetry_se	fractal_dimension_se	radius_worst
8.266372e-03	2.646071e-03	4.833242e+00
texture_worst	perimeter_worst	area_worst
6.146258e+00	3.360254e+01	5.693570e+02
smoothness_worst	compactness_worst	concavity_worst
2.283243e-02	1.573365e-01	2.086243e-01
concave.points_worst	symmetry_worst	fractal_dimension_worst
6.573234e-02	6.186747e-02	1.806127e-02

```
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					

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

44.3%

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

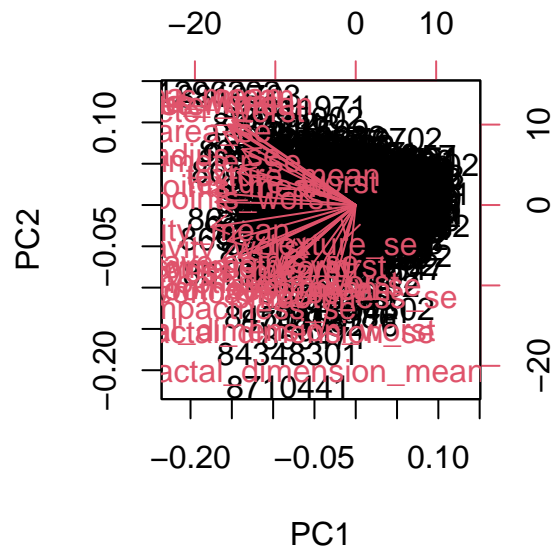
3 PCs are required to describe at least 70% of the original variance in the data

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

7 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?

```
biplot(wisc.pr)
```

This plot is a hot mess, need to generate our own plots for better understanding.

See what is in our PCA result object:

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

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

$class
[1] "prcomp"
```

```
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
861103	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
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87106	3.74011364	-0.250281306	-0.097297641	1.930448497	1.0426741051
8711002	0.96832079	-0.944113582	-0.890028129	1.095568323	0.6129630899
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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
8712291	2.99476813	2.736453261	-0.161042080	-0.412806573	-0.4051896121
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
874217	-0.36455538	3.571318842	-2.222023387	0.222971846	-0.7778465452
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
877486	-3.47014398	2.275846405	-1.237595112	-1.112162383	-1.0083717623
877500	-1.25557034	-0.382057094	-3.834946034	-0.716289870	0.6505837048
877501	1.47213604	-0.116787496	-0.214479145	-0.490377374	0.7132142476
877989	-1.64801062	2.100442902	-0.974414210	0.187878371	-0.9160201700
878796	-9.02864522	0.654596849	0.221085545	-0.764058327	-0.5644000271
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
879804	3.45185811	-1.305789765	-0.029238791	0.330213202	1.8602747487
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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
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8810703	-12.27421974	7.536778599	10.103533703	5.189703614	3.8491201120
881094802	-3.36923202	-2.585550416	7.085840019	-0.367171665	-2.7681374358
8810955	-2.50656080	-2.612349885	0.206198902	-1.893080135	2.1228977028
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
8812816	2.37141521	0.732757814	-1.524685925	1.851700285	-1.1820779548
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
8813129	2.47618073	1.417329346	-0.316254972	0.328213945	-0.6614306092
88143502	0.82531310	1.249148354	0.267725157	2.308595141	1.0139214702
88147101	3.89127342	-0.538097276	-0.880783727	1.037886765	0.8083176466
88147102	0.38923560	0.613875324	-1.351679911	1.174159176	-1.7883197584
88147202	1.45604019	0.201549415	-1.097912687	-2.004011649	-1.4772623926
881861	-2.75314552	-3.462726769	-2.471875866	-1.007392449	-0.1549996143
881972	-3.25439115	0.125090426	-2.893551435	0.748931137	0.3525453547
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
88299702	-8.39645911	4.150252991	0.046927784	-0.551357625	0.2878270868
883263	-2.64524110	3.947699392	1.370675284	0.207636553	-1.4038189712
883270	0.68116951	1.134992457	1.232581929	-3.861102774	-1.4270964368
88330202	-3.34735048	2.152675899	-1.107968825	-4.345184373	-0.0623295495
88350402	2.22576208	1.213931555	-0.192244621	1.469984705	-0.0196978073
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
884437	2.27931254	-2.075859442	2.428512195	-1.185017124	2.8564899050
884448	3.22593164	1.171043084	0.264431658	-1.002062865	-0.8936812738
884626	-1.02499890	-2.359186109	-1.615464155	1.144955805	-4.1408350383
88466802	2.58028546	-0.728572047	-0.547660903	-2.330028998	1.8336515859
884689	2.48369783	-0.460191483	-0.598393817	0.997839640	0.4299455562
884948	-7.13756174	2.073018195	1.087430513	0.715703759	-0.8191801992
88518501	3.02981522	0.648897838	0.310409540	0.579772365	0.7322406058
885429	-7.07878207	-0.527758800	-1.278861780	0.650990489	-1.8521950854
8860702	-1.31294375	1.773865017	-1.671161321	0.694009370	-0.1127114795
886226	-3.70838653	2.805008998	-1.754649703	0.903310417	0.0709235923
886452	-0.46007427	-0.393819769	-1.003815294	1.074442849	0.4271589571
88649001	-6.38703001	1.821491443	0.479427881	-1.694969593	-0.5561879657
886776	-5.25092469	-3.891107226	-0.833120389	1.680122512	0.7836374535
887181	-8.72618338	-3.276993966	2.901146761	-0.276944482	1.0609133753
88725602	-3.68807276	-1.064709236	-3.512498419	-4.769000799	0.8017786584
887549	-3.37528098	3.368264175	-1.765224543	-2.076130195	0.5972560049
888264	0.83947101	3.497008034	0.182323228	-1.241480335	0.1084218681
888570	-3.28148526	0.989802279	2.552140777	-0.122718992	-0.3505294554
889403	1.90709089	3.119201237	-1.062121558	-1.061133233	-0.9564549675
889719	-1.61336234	2.472397898	-1.989384336	-0.378757895	0.4428590571

88995002	-6.61390681	5.997998811	0.988507976	-2.884219766	1.6938934564
8910251	1.46338831	-1.685149061	1.168877382	0.325375950	0.4644646263
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
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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
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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
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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
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895299	4.62431058	1.834004631	0.064174505	0.094110332	-0.7997554706
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897132	3.21067592	-1.102473082	1.610564041	-0.486005834	3.4562087554
897137	4.38256677	0.760434627	-0.400245248	0.586341023	0.3762481427
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89827	2.07535283	-1.804931340	-1.166053416	1.141225718	0.4132078419
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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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899187	4.03828183	1.355724562	0.537868401	0.833178809	-0.1785899127

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9010598	2.39655663	0.250524355	-0.326850211	-0.277129058	0.3545026443
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901288	-3.51615443	3.855214937	-1.021630135	1.382926471	-0.3203822623
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9013594	1.60217670	-0.292338995	-1.584830948	0.908898609	-1.2347827015
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902727	2.29854534	0.931258175	-1.128959899	1.451099756	-1.5542727004
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902975	2.05700950	-0.320153445	-0.122350756	1.019962435	-2.0773397982
902976	3.42150749	2.443368505	0.045009146	0.785450794	-1.6017729103
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904969	3.64405137	1.240273815	1.385405524	1.612540488	0.1728393129
904971	2.34412427	-0.682141105	1.131738080	-0.302837266	0.5411994776
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907145	1.84733447	-2.538995601	2.003584668	0.483946194	3.5055609223
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907409	1.28205907	-2.548666752	-0.083786622	0.770833997	-0.5564209652
90745	2.31221232	-0.401678043	0.274381769	-1.668994639	0.5362392557
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908489	-0.66385679	-0.436476802	-2.678425146	-0.728585540	0.0277629459
908916	2.23890605	0.454189872	-0.465118333	0.188558748	0.8275650396

909220	2.12331215	1.193746541	0.489940891	0.854644353	0.1058427332
909231	2.61301823	1.830449830	0.763657618	-0.822442197	0.3005228170
909410	3.20814515	2.233177743	-0.166078298	1.129064342	-1.2590809462
909411	0.30648073	-2.183077955	0.039251705	-0.486027975	-2.0876130896
909445	-2.47018342	1.498506224	0.590933256	-2.265358224	-1.4046042766
90944601	3.45168126	2.134583340	0.196989342	1.532828161	-0.9420463979
909777	3.89709781	-0.730133530	2.134193239	-0.780486142	0.8318195830
9110127	-0.98086448	2.208486712	-1.698424795	0.970118413	-1.1822180725
9110720	1.25614629	-1.066752885	0.259247160	-1.240660490	0.3928701037
9110732	-3.24256054	1.776795240	-1.791577273	-2.482874793	-0.5498682865
9110944	1.55585043	1.037014643	-1.300101127	0.621126067	0.3790198963
911150	1.24815985	1.587442008	-0.326126484	-0.924508658	-1.5340001134
911157302	-4.32784530	4.045772565	-0.192336290	-0.290357973	-0.6103038017
9111596	1.07650412	-1.802032564	1.779475879	-1.627520204	-3.7384644652
9111805	-2.50954497	2.526584455	0.797500590	-0.822950476	0.4288865709
9111843	2.21514321	-0.029865010	0.635900610	-3.373732618	-0.4795727546
911201	1.17279871	0.474422064	-0.481147553	2.142074589	0.2430866392
911202	2.83380799	1.017230750	-1.485323075	0.456004436	-0.1146041549
9112085	1.85545330	1.570011674	0.825756166	-3.926794310	0.2206325260
9112366	1.32744636	-0.776412499	1.255653387	-3.782215661	1.2439684480
9112367	2.80030738	1.664836753	-0.193847761	-2.231144249	0.2050662449
9112594	3.17177797	2.073908798	0.074834422	-1.868185223	0.2091427763
9112712	4.08348433	0.484283961	0.630808963	-3.399741429	0.0182086861
911296201	-3.47243837	1.671413723	0.856073545	-1.155750941	1.3813559853
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
911320502	2.75500634	1.792341696	-0.757147909	0.024097077	-1.2827836689
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
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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
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8910748	-0.282166375	-0.0791985509	0.044264635	0.258342239	0.1089881896
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9110127	0.143526659	-0.4567092765	0.067773791	-0.449875463	0.0829893004
9110720	-0.699155425	-0.4977435511	0.227881449	0.450993502	0.6764541937
9110732	-0.598086185	-0.4691884880	-0.028367892	0.235193368	-0.1530934151
9110944	1.534348384	-0.2905432068	-0.389028021	-0.115317167	0.3463440740
911150	0.012054627	-0.1010876325	0.373277438	-0.072018973	-0.8150752476
911157302	-1.422336801	-0.6695517414	0.494477666	-0.504225601	-0.3499116171
9111596	0.342133611	0.9291469178	-0.519441949	-0.838453134	-0.3223334058
9111805	-1.829924638	-2.4021852235	-0.892011579	-0.152064160	0.0759597638
9111843	-0.484220288	0.0429605111	-0.189466889	0.115269170	0.4091777819
911201	-0.482435963	-0.5070647518	0.404778479	-0.553293100	-0.1734093525
911202	0.972979646	-0.1503289773	-0.049308997	0.506948394	0.1720798859
9112085	-1.198785425	0.3364916499	0.494756697	-0.147821627	0.1016758719
9112366	-0.225426032	-0.7491044280	-0.224370438	0.477457642	-0.5361690702
9112367	-0.571668797	-0.3612489115	0.006881983	0.436844123	0.3019340195
9112594	-0.482141691	-0.1794272022	-0.043697576	0.510127264	0.6733694070
9112712	-0.309548924	0.2304236421	0.114637527	0.665361229	0.3199077091
911296201	-0.999041862	1.1146528459	-1.117284997	0.689040819	0.5537425764
911296202	-1.123832614	4.9581336925	-0.886731866	3.591598013	-0.5871910850
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911320501	0.344589192	-0.0765341769	-1.082624362	0.163092490	-0.4963524427
911320502	-0.658253511	-0.3129584449	-0.594959424	0.256698161	-0.1600514117
9113239	0.223223930	1.4700860059	-0.804221019	-0.005541270	-0.4061653296
9113455	-0.555212156	-0.2170958245	-0.809387767	0.563504122	-0.5881572108
9113514	0.076677038	0.6404792504	-1.356209300	-0.068321249	-0.3122139454
9113538	-1.099270464	2.0225405128	0.483563669	-0.679068588	0.6046420108

911366	-2.425717007	-0.9408861129	-0.133959458	0.374829645	0.0300465387
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
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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
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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
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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
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91903901	-0.289073515	0.4730366470	-0.069618747	0.543463275	0.0572082633
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91930402	1.934520374	-0.7275859760	0.757319150	-0.175980334	0.2702433954
919537	-1.550311718	-0.7176961616	0.139629661	0.188290346	-0.3701820155
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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
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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
854941	-0.032328754	0.4115801153	-0.245663247	-0.3627028769	-0.150524126
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
857637	-0.605550553	-0.1156566994	-1.096994917	0.1275301954	0.597982425
857793	0.381160012	0.2814152874	-0.376294366	-0.0229779469	-0.331463457
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
859464	-0.231340120	0.1520401549	-0.494456567	-0.0986237426	0.137340458
859465	0.171674515	0.0917544994	0.214040320	-0.4676657086	-0.320276347
859471	-2.301916714	1.9478812125	1.103679434	0.2450717685	1.060326663
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859575	0.428848750	0.2049555851	-0.371823339	-0.1793614799	0.291771882

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859717	0.018812465	-0.7441487192	-0.132429495	0.9380256690	-0.369608299
859983	0.379838236	-0.1163449791	-0.053581681	-0.1557475752	-0.059940319
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8610629	-0.408291577	-0.3217815151	0.814890878	0.8570418853	-0.590679517
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8610862	1.209082105	1.2860572446	1.339239602	-0.5384927467	0.904755029
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8611555	0.253381955	-0.5690714729	0.753989687	-0.5460281371	0.432021867
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861648	0.724144967	0.5554322605	0.214432986	0.3277344219	-0.037958812
861799	0.937374393	0.4067146390	0.563287417	-0.7725393225	0.029255733
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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
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862717	0.237747713	0.4271403452	0.204387799	-0.0197655248	-0.095573905
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9110732	0.024414131	0.4975854996	0.549558951	-0.2011023381	-0.299910155
9110944	-0.133231991	0.4019948571	0.118891115	0.2602067542	0.264136144
911150	-0.254891123	-0.1987226600	0.314821465	0.1010173839	0.038052640
911157302	-0.304759560	-0.0710633358	-0.290458504	-0.3611104671	0.112657703
9111596	0.282046443	-0.1482442235	-0.260896037	-0.1300141283	-0.054651126
9111805	-0.377946437	0.2722833864	0.821258211	0.0367052224	-0.085581752
9111843	0.174111125	0.3164155124	0.135115267	0.1081551988	-0.105450385
911201	0.331494073	0.8308225070	-0.140172461	0.0661953025	-0.445273031
911202	-0.179513237	0.1084479294	-0.128914509	-0.1182160646	-0.049743526
9112085	0.797047053	0.8962375496	-0.132217275	-0.0094586059	-0.047588366
9112366	-0.204478448	-0.0879105786	0.581589377	0.2314154786	0.309254048
9112367	-0.035684549	0.4289464068	0.269673560	0.2916575984	-0.090558303

9112594	0.312084352	0.0333102098	0.292259187	0.2690636115	-0.089129909
9112712	0.389759897	0.1576981922	0.482690501	-0.2214880341	-0.105395304
911296201	0.174174817	0.6699233670	-0.789252842	-0.1252472729	0.169500421
911296202	-0.303026281	-0.4863006614	0.416553368	0.7203250975	0.214626989
9113156	0.339949255	0.0650662525	0.829514053	0.0336627078	-0.012832974
911320501	0.048554101	0.3066206167	-0.268281182	0.0034940978	-0.140625209
911320502	0.197027639	-0.3979179614	0.073201371	-0.2769069133	-0.077058593
9113239	0.010409429	-0.6880358416	-0.253546790	0.7249879119	-0.468468560
9113455	0.439378419	-0.3404106882	0.495375677	0.0627561683	-0.088792334
9113514	-0.364180390	-0.1631137476	0.125574467	-0.4001931920	0.166251942
9113538	0.535093911	-0.0377950008	-0.464832463	-0.3503553816	-0.290794655
911366	-0.031264444	-0.6301533197	-0.151333198	-0.2751542086	0.303176650
9113778	-0.426781323	-0.6005732735	-0.057537138	-0.1610642908	-0.134786921
9113816	0.143857161	-0.3980403216	-0.213639067	0.0122987635	-0.489240636
911384	-0.061735650	-0.4849848951	0.140008297	-0.0810339971	-0.164634978
9113846	-0.924547217	-0.1650804727	0.331463040	-0.1098471364	-0.147999119
911391	0.138131568	-0.3317485069	0.468648050	0.5125091603	-0.247577084
911408	-0.080959244	-0.0289294939	0.300967232	0.1986298009	-0.100281123
911654	1.085108710	-0.1974767354	-0.349026227	0.3471315498	0.292199581
911673	-0.234743745	-0.6218627235	0.326319542	-0.1666228749	-0.095218142
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911916	0.359354672	-0.2436266529	0.720356304	-0.0240276564	-0.110665541
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
912600	-0.234680765	-0.2387525922	0.559555778	0.0317958809	0.039764720
913063	0.430098593	0.0027740551	-0.486312026	0.2571649705	0.331462832
913102	-0.131537575	-0.0758429334	0.198911781	0.4966581680	0.038938641
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913512	0.136164018	0.2297130909	-0.285864175	0.1563344287	-0.133126097
913535	-0.488433850	-0.0030835220	-0.416074175	0.2769279910	0.338978930
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91376702	-0.236364830	-0.1156699908	-0.040531331	-0.0817350822	0.166193133
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914101	-0.573934139	-0.4560072102	-0.107550060	-0.8137681126	-0.315438432
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914333	0.231234573	0.4316795917	-0.066079150	0.0232705761	0.037494299
914366	0.610689995	0.3742372700	-0.090040303	-0.0212508453	-0.054908668
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914769	-0.353942968	0.0204796200	-0.153061859	-0.3316317313	0.178519722
91485	-0.312833478	0.0177142577	0.524231545	-0.2019981327	-0.039947058
914862	0.524760738	0.2833474941	0.578547357	-0.3805010924	0.424063489

91504	0.078581127	0.1589725855	-0.459371917	0.0886805410	-0.277104620
91505	0.144988459	0.4971942289	0.156019871	0.2908596514	0.291407020
915143	0.568692192	0.1591408726	-1.192610465	-0.0713913148	0.588139305
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915276	-0.532755725	-0.2330164053	0.405118974	-1.1787557829	0.697074701
91544001	-0.085401709	0.3217213228	0.983286586	0.3964982056	0.162894013
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915452	-0.019377981	0.1656588036	-0.236746460	-0.1878996254	-0.253631518
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91550	0.484421963	0.1018668018	-0.386568709	-0.5768630595	-0.199326510
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91594602	-0.064727834	-0.0224106269	0.244545028	0.1173740572	0.285898324
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916799	-0.378334890	0.4585978463	0.432548534	0.1643351329	-0.061591672
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917062	1.360660429	0.5824280478	-0.111959951	0.3741259219	0.611827875
917080	-0.102785755	0.0738025801	0.062243888	0.4609627146	0.131045355
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91789	-0.033046285	0.5166550389	0.271235410	-0.1720627144	0.217063747
917896	0.355608475	0.1695525595	-0.605430233	-0.2977521130	0.326759656
917897	0.277677070	-0.0613360894	-0.228041607	-0.3038124014	0.274499918
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918192	-0.219224214	-0.7394725201	-1.201093310	0.3455021564	-0.152491963
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91979701	-0.464140951	-0.1730744501	0.443281415	0.2770337868	-0.384797629
919812	0.664816782	-0.4952302847	-0.578224175	0.2634443771	0.299110655
921092	-0.458713646	0.5591542720	0.483950802	-1.0712172096	-0.321584546
921362	-0.391631186	-0.5494563493	0.953941633	0.0364970323	0.890138666
921385	-0.459932233	-0.8716409253	0.133864842	0.2918316525	0.533705303
921386	0.266156193	-0.2189951786	0.061736966	0.4096515445	-0.229038048
921644	0.344308231	0.2851593715	-0.174263087	-0.3021703935	-0.091722354
922296	0.754494648	0.4561970056	0.339310370	-0.0022268022	0.118843048

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922576	0.365464087	0.4277763898	-0.006784619	0.5236760757	0.051723764
922577	-0.337592217	-0.0267608899	0.312776967	0.1747521872	0.025219973
922840	-0.043766957	-0.1056845291	-0.298157590	-0.3004703745	-0.194792207
923169	-0.048982818	0.3764808300	-0.195677690	-0.3816380198	-0.193683020
923465	-0.110930947	-0.4798931054	0.136682319	-0.0916403900	0.237267418
923748	0.128935162	-0.0436164575	1.049012602	-0.3209498675	-0.116741765
923780	0.349763750	0.7505424152	0.143475685	0.4511670949	-0.048829098
924084	0.644600706	0.4766294202	0.237775205	-0.1124291332	-0.046746718
924342	0.301796214	0.7442879709	0.302072874	-0.5137654154	-0.141810425
924632	0.098400188	0.3661140595	0.821460859	0.0887376200	-0.135310151
924934	0.135366891	-0.1830112191	-0.252318027	-0.3284920680	-0.296758580
924964	0.187702105	-0.8112516794	0.618198182	0.2062748530	0.180616703
925236	-0.372813857	-0.5775177218	0.713112793	-0.2595316849	-0.354395012
925277	0.907324382	0.1933450191	0.452057650	0.4038191075	0.390851280
925291	-0.645197281	-0.3143226726	0.073104178	-0.2286369640	0.135232164
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925311	-0.569745725	-0.5567515908	0.371393741	0.0059625202	-0.058401266
925622	0.241409376	-0.1284484850	1.010978343	-0.5618115101	-0.980066745
926125	0.747115186	0.5137902382	0.605723215	-0.9204421040	-0.160428761
926424	0.062596180	0.1232334490	-0.051677832	-0.4039342494	-0.652176589
926682	-0.244588350	0.2225567578	-0.192467698	0.0155416535	0.069913471
926954	0.839772720	0.0963880851	0.157279563	0.2854397183	-0.090917772
927241	0.178471102	-0.6968480142	1.224117875	0.2185054033	-0.229389196
92751	0.143967465	-0.1793386428	0.678300647	-1.1696954484	-0.217152272

	PC16	PC17	PC18	PC19	PC20
842302	0.7444607451	-0.2652373958	-5.490796e-01	0.1336499023	0.3452611113
842517	-0.6482383131	-0.0171970719	3.180176e-01	-0.2473469895	-0.1140327429
84300903	0.3248247158	0.1907506408	-8.789759e-02	-0.3922811953	-0.2043524231
84348301	0.0513250859	0.4822096009	-3.584323e-02	-0.0267241008	-0.4643251074
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
84458202	-0.3365097518	0.1614215017	-4.908981e-02	0.2196830773	-0.0106331412
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
8510653	-0.1439936507	0.2273189096	-9.075712e-02	0.1205914711	0.1354815837
8510824	-0.2156163397	0.0416265799	-4.312105e-02	-0.2850057948	-0.0664739762
8511133	0.0779077052	0.0516753915	-1.351681e-01	-0.2505840594	0.2833238390
851509	-0.1695420732	-0.5795650326	-1.524509e-01	-0.4622425441	0.2441235537
852552	0.2252070093	-0.9343378255	-4.239600e-01	-0.2004324503	0.0316699323
852631	0.5428895558	-0.2315565339	-9.462169e-02	0.1754609443	0.1261898383
852763	0.0290689442	0.4558248771	-1.573099e-01	-0.2028349509	0.3681010830
852781	-0.2633107617	-0.0230320660	5.164379e-02	0.3674136487	0.0390322000
852973	0.3507423311	-0.2024818286	-5.140403e-01	0.1407887067	0.1935393255
853201	0.0540947447	0.0555750576	-6.736093e-02	0.2280003716	-0.2726557691
853401	0.3051862215	-0.1875623435	-1.935028e-01	0.2018598204	0.0776311316
853612	-0.6162327985	0.1233210520	-5.884654e-01	0.1115639655	-0.2376973065
85382601	0.5443556733	-0.1853860373	-2.905819e-01	-0.1327205151	-0.3102765519
854002	-0.6799791601	-0.0524136346	-1.278924e-01	0.3484526710	0.0977244882
854039	-0.2649508034	0.5116666688	-5.148992e-01	-0.0449359045	0.1396499273
854253	0.3963311465	0.3424367694	-2.523528e-01	0.5088120277	-0.0182262570
854268	-0.1353052207	0.1325066667	-1.212405e-01	0.1760177562	-0.0783161394
854941	-0.4865692197	-0.0171701023	9.749344e-02	-0.3466943841	-0.0311932418
855133	-0.5775705797	0.6852634929	-6.832692e-01	1.0176759372	-0.5936297787
855138	-0.2486170983	-0.3725864432	4.074237e-01	-0.2392380729	0.0653398462
855167	0.0858440131	0.0154061997	-1.124179e-01	-0.2063437638	0.1529980089
855563	0.4138240100	-0.1707322382	3.545141e-01	-0.0644683713	0.0680433928
855625	-0.1168940426	-0.5396200806	3.638398e-02	0.1722399585	-0.3325881394
856106	0.2139096807	0.0237139886	-2.109543e-01	0.0982275226	0.0303717372
85638502	0.3840819798	0.2459056676	-1.469466e-01	0.0157458771	-0.0966009077
857010	-0.0516728726	-0.3229228398	-8.174019e-03	0.1334369447	-0.1998283033
85713702	0.4341320342	0.0058211607	8.968932e-02	-0.2077530623	0.0078418173
85715	-0.0343499856	0.1432864234	1.566433e-01	-0.2386347890	-0.2403366743
857155	0.0675974293	-0.1890272279	8.181192e-03	0.2854018034	0.0309365297
857156	0.1742017650	0.0643542582	5.355821e-02	-0.2002754121	0.2156803986
857343	-0.0583889171	-0.0825241914	-1.534190e-01	0.0859253386	-0.0634891959
857373	0.0267599697	0.2211230693	1.393874e-01	0.0785551072	0.0905176134
857374	-0.1451536668	-0.0455372106	7.295476e-02	-0.0932288239	-0.0218792424
857392	0.4610520393	0.0023119228	-2.167759e-02	-0.0116195406	-0.1570539642
857438	-0.0273991255	-0.1756512312	2.032964e-01	-0.0520325983	0.0649106633
85759902	-0.0455436441	-0.0730332412	-1.409306e-01	-0.0752782585	0.0300697515
857637	-0.0136346681	-0.2686278403	-3.472606e-02	-0.2406998187	0.0511072884
857793	0.0076276816	0.4698692126	-4.504667e-01	-0.3869577956	-0.1062390440
857810	-0.2005621445	-0.2045630549	-1.277670e-01	0.2367277317	0.0578713266
858477	0.2370915417	0.0415790617	5.176941e-01	0.1482043271	-0.4564661004

858970	-0.5946048047	-0.5785348079	1.139374e-01	0.0079325268	0.2453309910
858981	-0.1743616455	-0.0787539271	-1.120703e-01	-0.0880295467	-0.2495215707
858986	0.1448061468	-0.4050970648	6.565549e-02	0.2559123023	-0.4289500187
859196	-0.0842293958	-0.3369495728	2.902474e-01	-0.3645193658	-0.0218847216
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859283	0.4712897357	0.1030461736	5.156184e-02	-0.0435454461	0.0120385599
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907145	-0.3398433202	-0.2718880642	-1.825878e-01	0.1952621463	-0.1548608524
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907409	-0.1623492871	-0.0017792522	-3.176198e-02	-0.1001717831	-0.1299250945
90745	0.0701954194	-0.1566916921	1.764543e-01	-0.0737384502	-0.0849579054
90769601	0.0404244404	0.0805511489	-3.926308e-02	-0.2515004628	-0.0201208648
90769602	0.1045915501	-0.1339975004	-6.398436e-02	0.0535673844	-0.0600015243
907914	-0.1708901952	-0.3445541895	4.313214e-02	-0.0486632645	0.1531607343
907915	-0.3267691024	0.0269214414	2.118412e-01	0.3072162496	0.2085041689
908194	0.1152322177	0.0549709970	3.427705e-01	0.0817876010	-0.1281378126
908445	-0.1471326612	0.1225225413	1.313822e-01	-0.1887657795	0.0454628684
908469	0.0038408798	0.0494909974	4.846952e-02	0.1344431797	-0.0828256608
908489	0.1773816760	0.0958090019	2.717694e-02	-0.1489215864	-0.0456675800
908916	0.0419126079	0.2165302680	-1.293663e-01	0.2518107451	-0.1155450183
909220	0.0039545080	0.0535841548	-3.371880e-02	0.2077974873	-0.0218736455
909231	0.0262134858	0.0871973587	-9.077136e-02	0.1271623834	0.1635763831
909410	-0.0369945971	0.0529532825	1.226743e-01	-0.0342691180	0.1016459372
909411	0.2160259204	-0.0279905658	4.124786e-02	-0.1160930580	0.0119980095
909445	0.0022431459	-0.2330894726	3.244261e-01	0.0448851797	0.0522115326
90944601	-0.2380473886	-0.0410117693	-2.537247e-01	0.2621017351	0.1244182572
909777	-0.2256876965	0.2113400951	-2.569793e-01	-0.1746154548	0.2364803958
9110127	-0.2245382968	-0.0264798838	1.065067e-01	0.1605994330	0.1937812128
9110720	-0.2081535579	0.1556903449	6.260450e-02	-0.4011694116	-0.0212653698
9110732	-0.1667274124	-0.1458701973	-2.519375e-01	-0.1048584546	0.0856938908

9110944	-0.1274540640	0.2478273656	-6.660839e-02	0.2447654819	0.1614361449
911150	-0.0980157044	0.0419551380	-1.973387e-01	0.0187669106	0.1367394187
911157302	0.1182697949	-0.1897041359	7.319364e-02	-0.2763388130	-0.0360886538
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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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
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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

91376701	0.2775019763	0.2758897054	-9.571030e-03	0.1151118680	-0.0749493374
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
914102	0.0298281101	0.0158373235	1.605788e-01	0.1924366003	-0.0825680683
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
914769	-0.2458954590	-0.0950845250	8.196982e-02	-0.0281701607	-0.1726967460
91485	-0.1178393087	-0.0117894072	1.272862e-01	0.0101121466	0.0908039604
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91504	-0.0731260646	0.0669510233	3.999921e-01	0.2900773883	-0.0053964739
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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
91544002	-0.4477928280	0.2116429077	1.901902e-01	-0.1937817362	-0.0831327797
915452	-0.4326986916	-0.0421231224	4.042337e-01	-0.0714777001	-0.0411972178
915460	0.0811069349	0.1173216262	2.709368e-01	-0.0068353403	0.1695494454
91550	-0.0251036033	0.1275815587	7.160374e-03	-0.3158463077	0.0718202346
915664	-0.1656525129	-0.0253422903	1.276502e-01	0.0321720287	0.0174672338
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915940	0.0337297517	-0.1151432061	-2.808120e-01	0.1177171098	0.0119567274
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916221	0.0036030549	-0.0917038623	1.850439e-01	-0.1336185270	-0.0104974251
916799	0.1917801920	0.0156821488	-6.479661e-02	0.0497413311	-0.1812578717
916838	-0.5242638655	-0.1324175078	4.164366e-02	0.1739884378	-0.2905878805
917062	-0.0403973202	0.0983046405	-1.417744e-01	0.1817929811	0.2574283017
917080	-0.2654299713	0.0557073790	-4.489172e-02	0.2980716460	0.1251235465
917092	-0.5662658617	0.0688884138	-4.355084e-02	-0.0827461636	0.0817261030
91762702	-0.1930575838	0.1638605084	1.696156e-01	0.0564170440	-0.0405222312
91789	0.0367359627	0.2271729812	9.887981e-02	-0.0959645408	-0.0860998270
917896	-0.1157537076	0.1773029044	2.921844e-01	0.0806429725	-0.0289322155
917897	0.3472701757	0.1286726709	4.361274e-03	-0.0003997164	-0.0658280590
91805	0.0997620180	0.1237155150	3.308483e-01	-0.1543674922	-0.2362715510
91813701	0.1779140177	0.2259259121	1.293641e-01	0.2521963074	0.0172741437
91813702	0.4493965033	0.2358398169	2.839421e-02	-0.1211408420	0.0401779785
918192	-0.4918703631	0.3934087720	-2.733424e-01	0.0808508482	-0.3937157839
918465	-0.1573548181	-0.0332560589	4.103334e-02	0.1527013574	-0.0954426500
91858	0.2357778568	0.1714303720	-1.682333e-01	-0.0480760651	-0.0048463579
91903901	0.0664241146	-0.0049832053	2.166153e-01	0.1474758498	0.0376285657
91903902	-0.0589653404	0.1378144328	-5.111800e-02	0.1123664221	-0.0998720750

91930402	0.0011489071	0.1106196364	1.793498e-01	0.0120397051	-0.0228969758
919537	0.1671650757	0.1637494512	2.267327e-01	-0.2011274932	0.0996771994
919555	0.2236113177	-0.0556410397	-1.201821e-02	-0.1633614569	-0.0988305409
91979701	0.1441660514	0.0503790828	7.972177e-02	-0.0689864988	0.1948700448
919812	-0.1845235859	0.2560471166	2.157609e-01	0.0185852693	0.1565496905
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
922296	0.1223984599	0.1891922492	-3.446057e-02	-0.2263650827	0.0703565400
922297	-0.4367745068	0.0792966644	1.675768e-01	0.2307348371	-0.0359430593
922576	-0.0494701048	0.0013069407	4.558326e-02	-0.0629478688	-0.1050644118
922577	0.0091468550	0.0290324891	1.488410e-02	0.0181300769	0.0288337616
922840	0.2476202326	-0.1276536694	4.694131e-01	-0.2003872236	-0.0195139777
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923465	0.0847374464	-0.1500183423	-7.870783e-02	0.3579268358	-0.1824970475
923748	-0.0103802678	-0.3204581803	-9.803317e-02	0.0202986827	0.0295470955
923780	-0.0057459625	-0.0405914791	6.431842e-02	-0.3217160263	-0.1685804913
924084	-0.0573291350	0.0452087235	1.212636e-01	-0.0765829801	-0.0502932900
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
925291	0.2761350539	0.2273597903	-6.871634e-02	-0.0276269369	0.1478646421
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925311	0.1807754237	0.0762688515	-3.325661e-01	0.0845524505	-0.0415106978
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
926954	-0.2324439379	-0.0655571760	2.108950e-02	-0.0419829133	-0.0813483422
927241	-0.0609931700	-0.1683659911	-3.066037e-01	0.3102957595	0.1730640918
92751	0.9204776932	-0.3045424620	-1.808133e-01	0.1889373346	0.1631105493
	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
84348301	0.4338116608	0.2030870644	-1.239955e-01	-0.1532947800	-0.0774275740
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
84458202	0.0446160665	0.1312420402	-2.402675e-01	-0.0962489988	0.1953110200
844981	0.0956161490	-0.1961497958	-5.867294e-02	0.0884762672	-0.1302274924
84501001	-0.2564517862	0.7160864577	1.671813e-01	-0.2158422553	-0.1346590354
845636	-0.1931514370	0.1797289643	1.239130e-04	-0.0661301394	0.1793508578
84610002	0.0256613371	0.1785045463	-2.105003e-01	0.1707930257	-0.2775786245
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
84799002	-0.0751373662	0.0433461466	1.334490e-01	0.1175438173	-0.2497804016
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
8510653	0.1108892757	-0.1668964790	3.887662e-03	-0.0412016079	-0.0692929154
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
852631	-0.0568217163	0.1071936741	-1.553465e-01	-0.0414444675	0.1546978225
852763	0.0163246146	-0.0141963492	-5.970130e-01	0.2221582674	0.0103514077
852781	-0.1014472410	0.0490161400	-3.782756e-02	-0.2044090783	-0.0458583192
852973	0.0617522965	-0.2965392069	5.075293e-02	0.2219116625	-0.3516296603
853201	-0.1913776215	0.0214862498	-2.929037e-01	0.1208650268	-0.1369103839
853401	0.0595587515	0.2771629842	1.088098e-01	-0.0532229335	0.1666814036
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
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855625	-0.3945969239	-0.1220412364	-2.748425e-01	0.3141513454	0.0472694608
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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

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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
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857637	0.1634300567	-0.0268306860	2.159026e-02	0.0340839741	-0.0399774989
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857810	0.0461711930	-0.0421999111	7.051093e-02	0.0089610843	-0.0368382481
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858981	0.1228232989	0.0935845279	8.347651e-02	0.1223396053	0.0212412139
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85922302	0.1426873130	0.2035075522	-1.279958e-02	0.1170282052	-0.0664023204
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859983	0.0737021390	0.2859701894	-2.018351e-01	0.0772917781	0.1152392295
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8812816	0.1156074813	0.1098602073	-4.990423e-02	-0.0016563183	-0.0438822499

8812818	0.0410599948	0.0233995341	8.345030e-02	0.0734162888	0.0305945738
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883263	-0.0551961289	-0.1677171894	1.416056e-03	0.0640969569	0.0223097436
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904357	-0.1373826082	0.1529384093	-5.524373e-02	-0.0052282533	0.0217460915
90439701	0.0701893451	0.0904031221	5.966770e-01	-0.1366247545	0.2058619450
904647	-0.1958065408	0.1903036506	4.447664e-02	0.0001518732	-0.0192018375
904689	-0.0764439741	0.0022668440	6.813931e-02	0.1299173710	-0.0130984251
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904969	-0.0735922415	0.1016922552	-9.346657e-03	-0.0113661089	-0.1158271490
904971	-0.1399647319	-0.0635678790	-1.921571e-02	0.0509664252	-0.0710667356
905189	-0.1076709172	-0.2238560686	-8.967892e-02	-0.0694107063	0.0580830537
905190	0.1891398220	0.1067109845	2.301607e-02	-0.3244498446	0.0501422127
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905502	-0.7366473928	0.1336251696	5.346571e-02	-0.1429211545	-0.1088212894
905520	-0.1076302612	0.0540276967	8.365838e-02	0.0369696956	0.0419193896
905539	-0.0375866316	0.1573304199	1.040715e-01	0.1176471451	-0.0160294183
905557	-0.1955876789	0.0416847768	-1.953204e-01	-0.0029272382	0.0481788239
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905686	-0.0272013354	-0.1232445513	-1.828692e-01	-0.0019516063	-0.0420903855
905978	0.0220627155	-0.0128016329	8.695392e-03	0.0707134339	-0.0175760032
90602302	-0.0455105175	0.0118264417	-2.117105e-01	-0.0410945327	0.2094259410
906024	-0.0381590783	0.2363908623	3.464989e-02	0.0506176283	0.0479167769
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906564	-0.2012672707	-0.0303093436	-4.373046e-02	-0.0385360656	0.0802442404
906616	0.1740700676	0.0148607318	5.281553e-02	-0.0340422844	0.0564039328
906878	-0.0842418547	-0.0774944392	-7.580155e-02	0.0265567982	0.0751697968
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
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90769602	-0.0003045670	0.1191483148	-1.473899e-02	0.0404284250	-0.0853419262
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908489	-0.2200985970	0.1006178156	-1.368833e-01	0.0531833989	0.1099756348

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909231	-0.0793001591	0.1044417028	-3.418081e-02	-0.0147955293	0.0745168721
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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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9110732	-0.2357417239	-0.3273223560	1.015880e-01	-0.0735782071	0.1269743445
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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
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9111843	-0.1256036884	0.0020564443	-1.380696e-02	0.0651525401	0.0281648503
911201	-0.0210571037	0.2003246196	3.443820e-03	0.1279633849	0.0160188982
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9112085	-0.0993143795	0.1125780263	-7.237572e-02	-0.0188121874	0.0219217050
9112366	0.2095251172	-0.1582811034	1.815673e-02	-0.0622779942	0.0886025652
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9113514	0.0419869330	0.0999656989	6.741788e-02	0.0033475535	-0.0870013668
9113538	0.0680035335	0.1272163054	-2.164847e-03	-0.4699301520	0.1415257001
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9113816	0.4132059354	-0.1253744570	-2.372379e-02	0.0689106194	0.0632012566
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9113846	0.3744615653	-0.2166879487	-2.056099e-01	0.0225950366	0.1145355103
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911408	0.2074374506	-0.1946890651	8.574414e-02	0.0375255535	-0.0176623189
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91227	-0.1718005261	0.0776043939	-1.207006e-01	-0.0681632290	0.1262100777
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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
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922296	-0.0656376005	0.0115407705	-1.397186e-01	-0.0441481701	-0.0402201549
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924084	0.0994771923	-0.0523366815	-3.192496e-03	-0.0208073885	-0.0508996216
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925622	-0.3366411323	-0.5256708725	4.037840e-01	-0.2315981974	-0.0744296594
926125	-0.2819119524	-0.0637883885	3.027516e-01	0.3971743169	0.1344740836
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926682	-0.0097931016	-0.0195459671	-5.535634e-02	-0.0860588433	-0.0011958031
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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
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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
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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

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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
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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
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857155	0.1324480590	-2.199369e-03	3.816358e-03	-1.275649e-02	-8.411835e-04
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85759902	-0.0058355492	2.774052e-02	1.416855e-02	2.401521e-03	-1.940349e-03
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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
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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
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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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8610908	0.0603063922	7.898511e-02	1.797480e-02	7.861041e-03	-4.882806e-03
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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
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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
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862717	-0.0025631120	1.356357e-03	1.644737e-02	-3.823881e-02	-9.833806e-03
862722	0.1064206394	1.519109e-01	-4.087998e-02	-4.398503e-02	-1.438949e-03
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
863031	0.0047096088	1.265146e-01	1.027214e-02	1.037018e-02	2.799425e-03
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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86408	-0.0523768243	-1.293519e-01	2.375350e-03	5.226188e-03	1.553986e-02
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864292	-0.0317323231	-1.046274e-02	-3.791760e-02	-4.603995e-03	-8.643990e-03
864496	0.0075563673	9.480868e-02	-5.016599e-02	2.620338e-02	-8.430096e-03
864685	-0.0503911791	1.785086e-02	2.192546e-02	1.495819e-04	-3.887868e-03
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
864877	-0.0224658175	-1.080530e-01	9.287116e-02	1.743955e-03	-2.880034e-02
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
866458	0.1187115289	-9.014834e-02	-9.844412e-03	-2.289141e-02	2.376357e-02
866674	-0.1706089520	7.382328e-02	1.538592e-02	5.700609e-03	3.355304e-02
866714	-0.0432871492	-2.692320e-03	-2.110486e-02	1.944582e-02	-9.803105e-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
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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
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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
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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
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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
8711216	-0.0208420277	1.045552e-01	-1.873284e-02	2.041273e-02	1.338303e-02
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
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871641	-0.1283484525	-2.105483e-01	-1.812564e-02	-3.558919e-02	-1.771539e-04
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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
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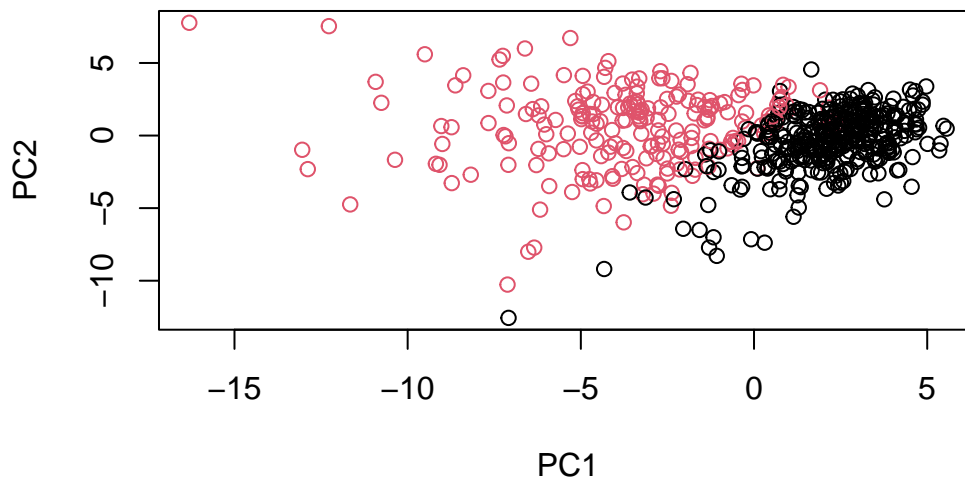
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914862	0.0854465362	-1.747535e-01	-3.607397e-02	1.867275e-03	-3.821167e-03
91504	-0.0963197757	9.104160e-02	-2.312398e-02	3.386630e-02	-1.529871e-02
91505	-0.0121822447	-1.090114e-02	8.724908e-03	4.694641e-03	-1.074887e-03
915143	-0.1180678238	2.658401e-01	-7.894180e-02	-2.561913e-02	7.697159e-03
915186	0.1148367203	2.121193e-01	-3.514142e-02	-5.061458e-02	3.668640e-02
915276	0.2752439895	-3.019773e-01	9.673065e-03	-1.996698e-02	4.151417e-02
91544001	-0.0485533966	5.416690e-02	-1.649414e-02	-1.490646e-02	-2.155321e-03
91544002	-0.0036376007	-1.802591e-01	-1.011343e-02	2.070820e-02	6.669538e-03
915452	-0.0647665350	4.842798e-03	1.594580e-02	9.613952e-03	-3.100001e-04
915460	-0.1754187549	1.359165e-01	4.067320e-02	5.041105e-02	2.144200e-04
91550	-0.0556837067	6.632740e-02	-6.746846e-03	1.531456e-02	-1.218153e-02

915664	-0.0984427406	1.808916e-02	1.255164e-02	9.930751e-03	9.221713e-03
915691	0.0036057142	-8.355934e-02	-3.592810e-02	2.235170e-02	3.151072e-03
915940	-0.0112187011	2.530924e-02	4.763963e-03	-1.126705e-02	7.608210e-04
91594602	-0.0091762716	-7.293476e-02	2.792662e-02	-3.556928e-03	-1.164186e-03
916221	0.0038142602	3.300541e-02	8.325671e-03	-4.509973e-03	-1.285385e-03
916799	0.0189855035	-9.752934e-02	-6.505096e-03	-2.312757e-03	-1.589520e-02
916838	0.0550042618	-1.724436e-01	-9.894992e-02	-7.051032e-02	7.208234e-03
917062	0.1580673727	-6.410352e-02	-8.250866e-03	-1.932592e-02	1.086353e-02
917080	0.0544002611	1.580256e-02	-1.613705e-03	8.423291e-04	9.014139e-04
917092	0.0074556575	9.663785e-02	-2.665164e-02	-3.072198e-02	-5.603826e-03
91762702	0.2131860543	1.741659e-01	-1.264691e-01	1.220225e-02	-8.726745e-03
91789	-0.0681589606	-9.361363e-03	-8.419239e-03	1.344440e-02	2.051314e-03
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

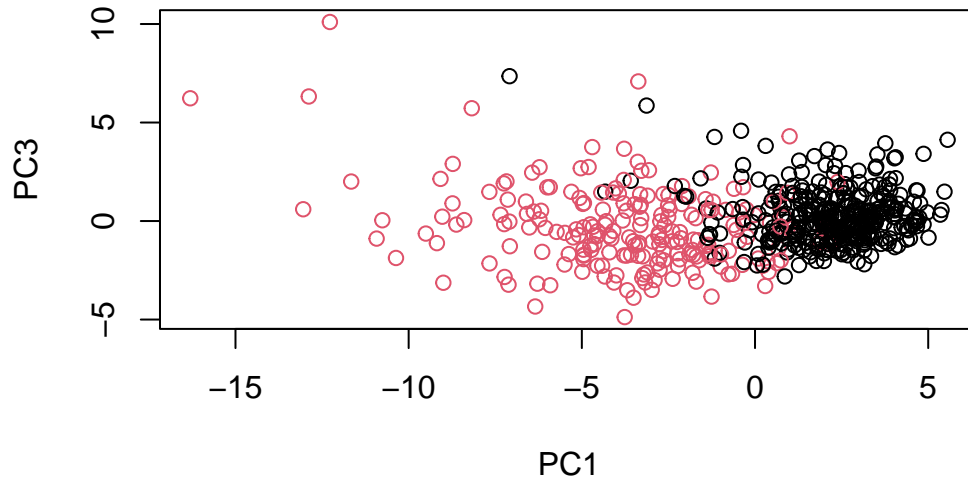
```
#plot(wisc.pr$x)
```

```
# Scatter plot observations by components 1 and 2
plot(wisc.pr$x[,1], wisc.pr$x[,2], col=as.factor(diagnosis), xlab="PC1", ylab="PC2")
```



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

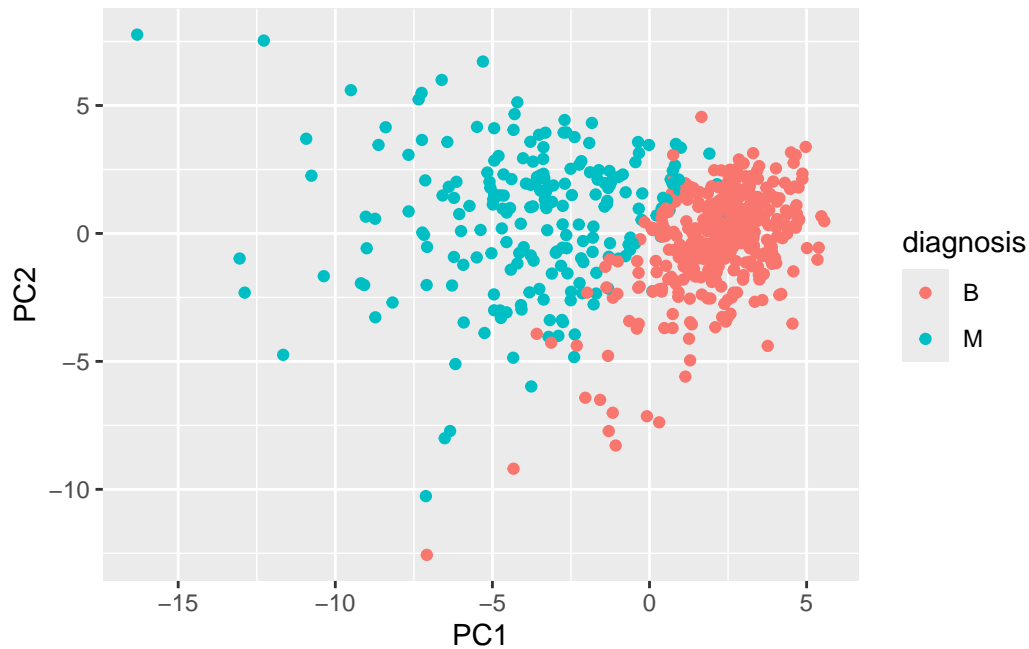
```
# Repeat for components 1 and 3
plot(wisc.pr$x[,1], wisc.pr$x[,3], col = as.factor(diagnosis), xlab = "PC1", ylab = "PC3")
```



```
# Create a data.frame for ggplot
df <- as.data.frame(wisc.pr$x)
df$diagnosis <- diagnosis

# Load the ggplot2 package
library(ggplot2)

# Make a scatter plot colored by diagnosis
ggplot(df) +
  aes(PC1, PC2, col = diagnosis) +
  geom_point()
```



```
# Calculate variance of each component
pr.var <- wisc.pr$sdev^2
head(pr.var)
```

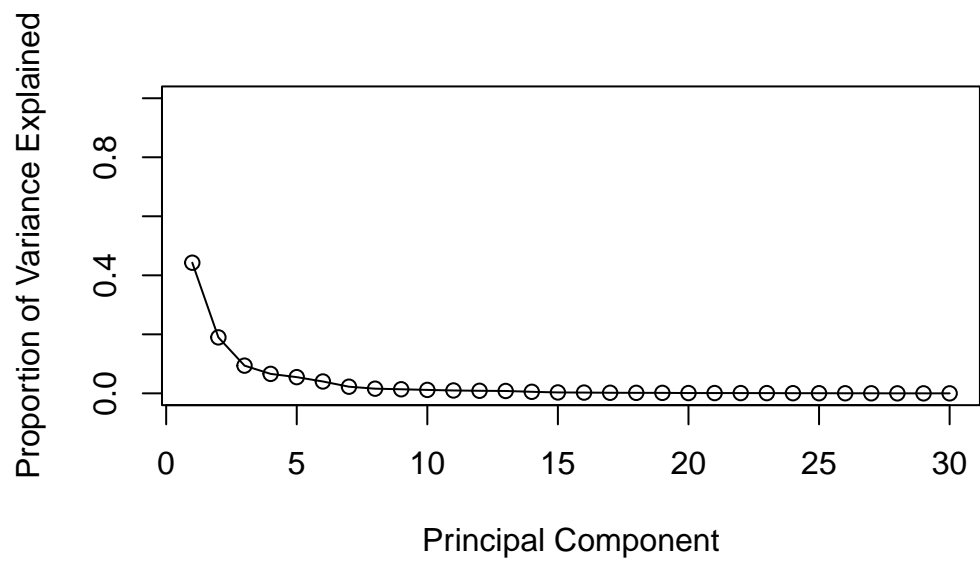
```
[1] 13.281608  5.691355  2.817949  1.980640  1.648731  1.207357
```

```
# Variance explained by each principal component: pve
pr.var <- wisc.pr$sdev^2
head(pr.var)
```

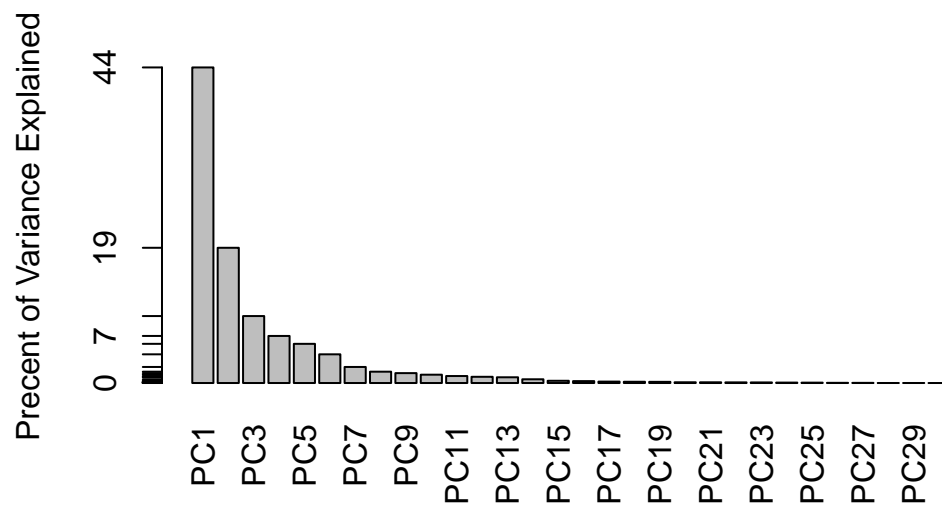
```
[1] 13.281608  5.691355  2.817949  1.980640  1.648731  1.207357
```

```
pve <- pr.var/sum(pr.var)

# Plot variance explained for each principal component
plot(pve, xlab = "Principal Component",
     ylab = "Proportion of Variance Explained",
     ylim = c(0, 1), type = "o")
```



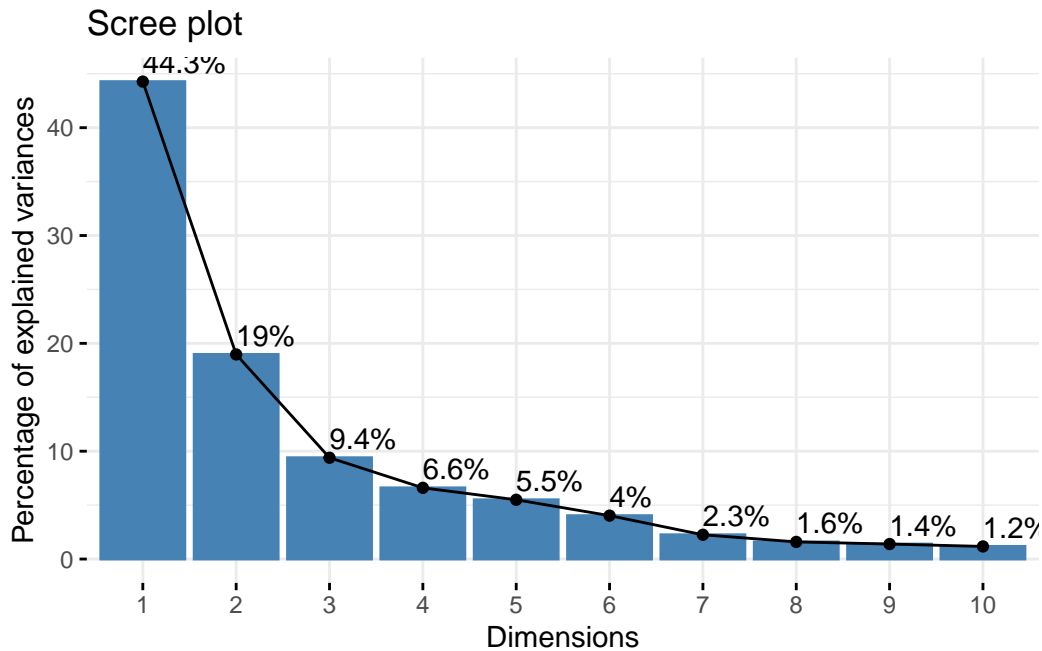
```
# Alternative scree plot of the same data, note data driven y-axis
barplot(pve, ylab = "Precent of Variance Explained",
        names.arg=paste0("PC",1:length(pve)), las=2, axes = FALSE)
axis(2, at=pve, labels=round(pve,2)*100 )
```



```
## ggplot based graph  
#install.packages("factoextra")  
library(factoextra)
```

Welcome! Want to learn more? See two factoextra-related books at <https://goo.gl/ve3WBa>

```
fviz_eig(wisc.pr, addlabels = TRUE)
```



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`?

```
wisc.pr$rotation[,1]
```

radius_mean	texture_mean	perimeter_mean
-0.21890244	-0.10372458	-0.22753729
area_mean	smoothness_mean	compactness_mean
-0.22099499	-0.14258969	-0.23928535
concavity_mean	concave.points_mean	symmetry_mean
-0.25840048	-0.26085376	-0.13816696
fractal_dimension_mean	radius_se	texture_se
-0.06436335	-0.20597878	-0.01742803
perimeter_se	area_se	smoothness_se
-0.21132592	-0.20286964	-0.01453145
compactness_se	concavity_se	concave.points_se
-0.17039345	-0.15358979	-0.18341740
symmetry_se	fractal_dimension_se	radius_worst
-0.04249842	-0.10256832	-0.22799663
texture_worst	perimeter_worst	area_worst
-0.10446933	-0.23663968	-0.22487053
smoothness_worst	compactness_worst	concavity_worst

-0.12795256	-0.21009588	-0.22876753
concave.points_worst	symmetry_worst	fractal_dimension_worst
-0.25088597	-0.12290456	-0.13178394

Concave points mean: -0.26085376

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

5 PCs required to explain 80% of the variance of the data

Hierarchical Clustering

```
# Scale the wisc.data data using the "scale()" function
data.scaled <- scale(wisc.data)
```

```
data.dist <- dist(data.scaled)
```

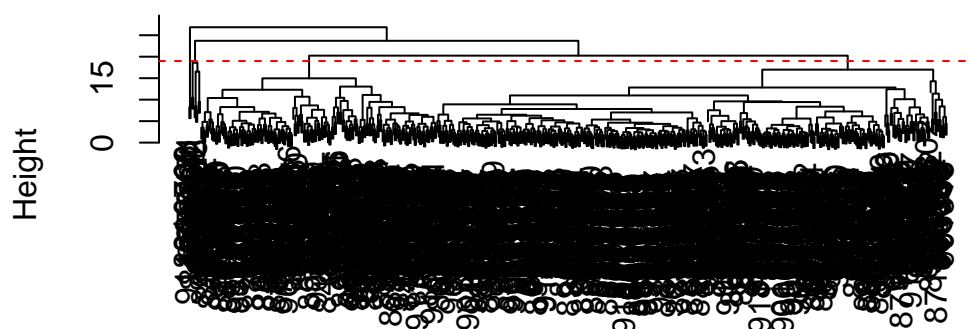
```
wisc.hclust <- hclust(data.dist, method="complete")
```

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

Height = 19

```
plot(wisc.hclust)
abline(h=19, col="red", lty=2)
```

Cluster Dendrogram



```
data.dist
hclust (*, "complete")
```

Selecting Number of Clusters

```
wisc.hclust.clusters <- cutree(wisc.hclust, h = 19)
```

```
table(wisc.hclust.clusters, diagnosis)
```

	diagnosis	
wisc.hclust.clusters	B	M
1	12	165
2	2	5
3	343	40
4	0	2

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

```
wisc.hclust.clusters10 <- cutree(wisc.hclust, k=10)
table(wisc.hclust.clusters10, diagnosis)
```

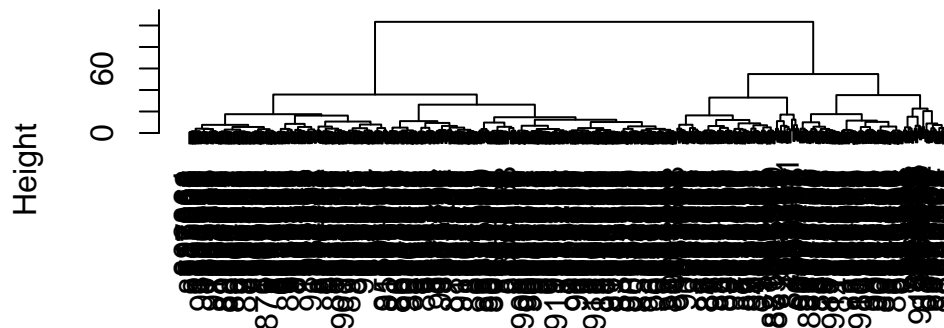

	diagnosis	
wisc.hclust.clusters	B	M
1	12	86
2	0	59
3	0	3
4	331	39
5	0	20
6	2	0
7	12	0
8	0	2
9	0	2
10	0	1

##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

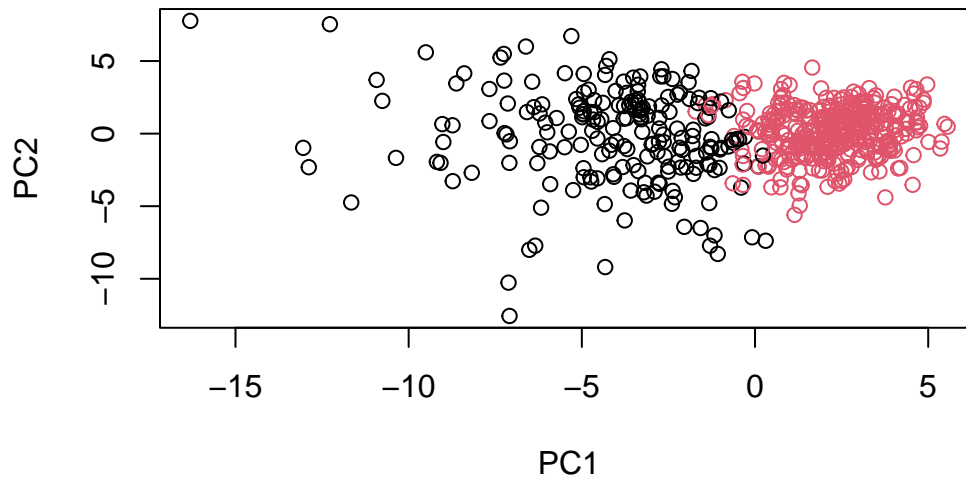


```
d
hclust (*, "ward.D2")
```

Cut tree 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

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

Single

Q14. How well does k-means separate the two diagnoses? How does it compare to your hclust results?

It does a better job in separating B to M by proportion of the cluster