

Class 8: PCA Mini Project

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It is important to consider scaling your data before analysis

```
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

```
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

```

Unsupervised Learning Analysis of Human Breast Cancer Cells

Values in thsi data set describe

Load the data:

```

# 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(fna.data, row.names=1)

```

```
head(wisc.df)
```

```

      diagnosis radius_mean texture_mean perimeter_mean area_mean
842302         M      17.99      10.38         122.80      1001.0
842517         M      20.57      17.77         132.90      1326.0
84300903        M      19.69      21.25         130.00      1203.0
84348301         M      11.42      20.38          77.58       386.1
84358402         M      20.29      14.34         135.10      1297.0
843786         M      12.45      15.70          82.57       477.1
      smoothness_mean compactness_mean concavity_mean concave.points_mean
842302         0.11840         0.27760         0.3001         0.14710
842517         0.08474         0.07864         0.0869         0.07017
84300903        0.10960         0.15990         0.1974         0.12790
84348301         0.14250         0.28390         0.2414         0.10520
84358402         0.10030         0.13280         0.1980         0.10430
843786         0.12780         0.17000         0.1578         0.08089
      symmetry_mean fractal_dimension_mean radius_se texture_se perimeter_se
842302         0.2419         0.07871         1.0950         0.9053         8.589

```

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

```
# Create diagnosis vector for later
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			

Q1. How many observations are in this dataset?

- 31

```
ncol(wisc.df)
```

```
[1] 31
```

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

```
table(diagnosis)
```

```
diagnosis
  B    M
357 212
```

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

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

```
[1] 10
```

```
# 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

```
# Perform PCA on wisc.data by completing the following code
wisc.pr <- prcomp(wisc.data, scale= T)
summary(wisc.pr)
```

Importance of components:

	PC1	PC2	PC3	PC4	PC5	PC6	PC7
Standard deviation	3.6444	2.3857	1.67867	1.40735	1.28403	1.09880	0.82172
Proportion of Variance	0.4427	0.1897	0.09393	0.06602	0.05496	0.04025	0.02251
Cumulative Proportion	0.4427	0.6324	0.72636	0.79239	0.84734	0.88759	0.91010
	PC8	PC9	PC10	PC11	PC12	PC13	PC14
Standard deviation	0.69037	0.6457	0.59219	0.5421	0.51104	0.49128	0.39624
Proportion of Variance	0.01589	0.0139	0.01169	0.0098	0.00871	0.00805	0.00523
Cumulative Proportion	0.92598	0.9399	0.95157	0.9614	0.97007	0.97812	0.98335
	PC15	PC16	PC17	PC18	PC19	PC20	PC21
Standard deviation	0.30681	0.28260	0.24372	0.22939	0.22244	0.17652	0.1731
Proportion of Variance	0.00314	0.00266	0.00198	0.00175	0.00165	0.00104	0.0010
Cumulative Proportion	0.98649	0.98915	0.99113	0.99288	0.99453	0.99557	0.9966
	PC22	PC23	PC24	PC25	PC26	PC27	PC28
Standard deviation	0.16565	0.15602	0.1344	0.12442	0.09043	0.08307	0.03987
Proportion of Variance	0.00091	0.00081	0.0006	0.00052	0.00027	0.00023	0.00005
Cumulative Proportion	0.99749	0.99830	0.9989	0.99942	0.99969	0.99992	0.99997

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

Main "PC score plot," PC1 vs PC2 plot"

See what is in out PCA results object:

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

\$names

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

\$class

```
[1] "prcomp"
```

```
head(wisc.pr$x)
```

	PC1	PC2	PC3	PC4	PC5	PC6
842302	-9.184755	-1.946870	-1.1221788	3.6305364	1.1940595	1.41018364
842517	-2.385703	3.764859	-0.5288274	1.1172808	-0.6212284	0.02863116
84300903	-5.728855	1.074229	-0.5512625	0.9112808	0.1769302	0.54097615
84348301	-7.116691	-10.266556	-3.2299475	0.1524129	2.9582754	3.05073750
84358402	-3.931842	1.946359	1.3885450	2.9380542	-0.5462667	-1.22541641
843786	-2.378155	-3.946456	-2.9322967	0.9402096	1.0551135	-0.45064213
	PC7	PC8	PC9	PC10	PC11	PC12
842302	2.15747152	0.39805698	-0.15698023	-0.8766305	-0.2627243	-0.8582593
842517	0.01334635	-0.24077660	-0.71127897	1.1060218	-0.8124048	0.1577838
84300903	-0.66757908	-0.09728813	0.02404449	0.4538760	0.6050715	0.1242777
84348301	1.42865363	-1.05863376	-1.40420412	-1.1159933	1.1505012	1.0104267
84358402	-0.93538950	-0.63581661	-0.26357355	0.3773724	-0.6507870	-0.1104183
843786	0.49001396	0.16529843	-0.13335576	-0.5299649	-0.1096698	0.0813699
	PC13	PC14	PC15	PC16	PC17	
842302	0.10329677	-0.690196797	0.601264078	0.74446075	-0.26523740	
842517	-0.94269981	-0.652900844	-0.008966977	-0.64823831	-0.01719707	
84300903	-0.41026561	0.016665095	-0.482994760	0.32482472	0.19075064	
84348301	-0.93245070	-0.486988399	0.168699395	0.05132509	0.48220960	
84358402	0.38760691	-0.538706543	-0.310046684	-0.15247165	0.13302526	
843786	-0.02625135	0.003133944	-0.178447576	-0.01270566	0.19671335	
	PC18	PC19	PC20	PC21	PC22	

842302	-0.54907956	0.1336499	0.34526111	0.096430045	-0.06878939
842517	0.31801756	-0.2473470	-0.11403274	-0.077259494	0.09449530
84300903	-0.08789759	-0.3922812	-0.20435242	0.310793246	0.06025601
84348301	-0.03584323	-0.0267241	-0.46432511	0.433811661	0.20308706
84358402	-0.01869779	0.4610302	0.06543782	-0.116442469	0.01763433
843786	-0.29727706	-0.1297265	-0.07117453	-0.002400178	0.10108043
	PC23	PC24	PC25	PC26	PC27
842302	0.08444429	0.175102213	0.150887294	-0.201326305	-0.25236294
842517	-0.21752666	-0.011280193	0.170360355	-0.041092627	0.18111081
84300903	-0.07422581	-0.102671419	-0.171007656	0.004731249	0.04952586
84348301	-0.12399554	-0.153294780	-0.077427574	-0.274982822	0.18330078
84358402	0.13933105	0.005327110	-0.003059371	0.039219780	0.03213957
843786	0.03344819	-0.002837749	-0.122282765	-0.030272333	-0.08438081
	PC28	PC29	PC30		
842302	-0.0338846387	0.045607590	0.0471277407		
842517	0.0325955021	-0.005682424	0.0018662342		
84300903	0.0469844833	0.003143131	-0.0007498749		
84348301	0.0424469831	-0.069233868	0.0199198881		
84358402	-0.0347556386	0.005033481	-0.0211951203		
843786	0.0007296587	-0.019703996	-0.0034564331		

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
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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
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865128	-0.85026612	2.304707468	0.566963050	-0.043586897	2.0922055990
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86517	-3.33120209	1.324392029	0.727373652	1.002316780	0.9328861016
865423	-12.88327621	-2.314585873	6.323133317	1.940496559	3.1574494112
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865468	2.20057925	0.734958544	0.266845303	-0.037586447	-2.9314571580
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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
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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
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868223	2.59850310	0.481911436	1.870726668	-0.437633248	-0.0160686443
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869104	-1.34383800	1.273650278	0.555354894	0.574366142	0.4704353120
869218	2.45380972	-0.897665441	0.352823033	-0.367668079	1.1033160270
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869254	4.34266862	0.892786708	0.638694049	0.425252734	-0.9556015217
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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
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8712289	-5.48932277	4.162167037	-0.600732185	0.149568094	-0.6250164993
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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
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872608	-1.16986842	-7.008319996	4.268106508	-0.332347396	-2.9068870248
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873357	4.97132782	3.383227983	0.439451738	-1.576183104	-1.0328868993
873586	4.06045289	1.245070643	0.573972801	1.703893823	-0.6153230400
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874373	2.83339783	0.398379162	-0.347139642	0.812532578	0.0392461561
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875093	1.71622508	0.542688019	3.295475582	-0.087253972	-0.0840995519
875099	5.56084294	0.477427493	4.123834207	-2.350422636	1.0515357688
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877486	-3.47014398	2.275846405	-1.237595112	-1.112162383	-1.0083717623
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8810436	2.05738166	2.470613908	-1.460433790	1.866439637	-1.8369468233
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8810703	-12.27421974	7.536778599	10.103533703	5.189703614	3.8491201120
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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
8812844	2.97318270	-1.809381711	-0.223238842	0.391290904	1.5280262811
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
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885429	-7.07878207	-0.527758800	-1.278861780	0.650990489	-1.8521950854
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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
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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
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8912049	-4.95590744	1.339944038	-1.455772409	-1.466907423	0.6119216765
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89122	-3.78173258	1.900235409	-1.742708503	0.391939754	0.3389814297
8912280	-2.63493731	-0.576647607	-1.992946242	0.272309546	-1.1957159307
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8913	4.30833870	1.976746804	-0.251085558	1.573526614	-1.9816674884
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89143601	3.00096526	-0.353848878	1.232930128	-0.716826045	1.3114083326
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891716	3.36288672	0.806890637	-0.806369895	1.662223414	-0.0505417655
891923	3.31208587	1.440908382	-0.583119519	1.783361666	0.0192555651
891936	4.76551701	0.542484530	0.893082182	1.729539559	-1.0008319932
892189	2.38378528	0.823391074	1.982219343	0.055206875	0.5052838506
892214	2.78464581	2.530807159	-0.883257225	-0.259446372	-1.6463839898
892399	3.39085817	-0.753301131	1.770235939	-0.276430081	1.0849483019
892438	-6.58444233	1.483557076	0.361022239	1.187401386	0.1208047145
892604	1.45405111	-0.591422478	1.145332613	0.078947827	-1.0867825344
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89813	-0.29505357	-0.226735533	-1.088458865	0.946589841	-0.7284538257
898143	1.93726491	-2.542750760	-1.000543159	0.025717223	-1.2050388549
89827	2.07535283	-1.804931340	-1.166053416	1.141225718	0.4132078419
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898677	2.42941383	-3.444173357	3.453905770	0.493225969	1.0448376978
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89869	1.20553704	1.315886497	-0.929922572	1.703291193	-0.7180879050
898690	3.32315522	-0.474753848	-0.897496041	0.812772706	0.5848648524
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904689	1.99962900	0.293068594	0.618659534	-0.352201845	-1.1637958353
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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
905189	1.14199209	1.960446508	-1.239628958	1.477776286	-0.4837568556
905190	1.34966974	-0.369249002	2.484489568	-1.139714833	-1.9041890533
90524101	-2.76094145	1.077685260	-1.178586912	0.413794976	0.1644668356
905501	1.96759233	0.175693916	0.420361503	-0.785620740	0.8604953761
905502	2.92861019	0.494421191	-1.016176763	-1.684940447	0.5652328718
905520	2.92380175	-0.377000536	-0.886014238	-0.115243469	0.9848137147
905539	3.99267514	-0.959012260	0.204224433	-1.508902626	-1.7077458028
905557	-0.15500167	0.437623166	-0.461040030	-1.453254393	-0.8550878945
905680	0.93326963	2.104094210	1.431657320	-2.891717258	1.2742945854
905686	1.92792536	-0.891682104	0.042307522	-0.558392976	1.2792046734
905978	2.62003325	-2.499901968	2.432858840	-1.876362157	3.1480466996
90602302	-5.99833869	0.090949196	1.709697317	0.946542059	1.1740030698
906024	2.91930912	0.009204582	-0.900511128	1.789753754	-0.5764724361
906290	3.33900683	0.022205192	0.502858739	-1.141258134	1.5633857813
906539	2.01314368	-0.777767778	0.125468395	-0.659155792	0.0219104429
906564	-1.98671401	-2.314011967	1.235217081	1.768220225	-0.1438692164
906616	1.66813615	-0.861560770	-1.009417991	1.322731355	0.2813203167
906878	0.37085180	-0.113512779	-0.997485893	-0.155233295	-1.4746581730
907145	1.84733447	-2.538995601	2.003584668	0.483946194	3.5055609223
907367	4.69890766	0.431922385	0.005300424	-1.369403704	0.0850247711
907409	1.28205907	-2.548666752	-0.083786622	0.770833997	-0.5564209652
90745	2.31221232	-0.401678043	0.274381769	-1.668994639	0.5362392557
90769601	4.65498928	0.781611021	0.191953023	0.493247906	-0.5356508029
90769602	3.94000659	2.028231657	0.691127602	0.512954900	-0.3398155529
907914	-4.94550694	-3.003421435	-1.752529645	-0.671769430	-2.8622552978
907915	0.91499842	-2.476833776	0.362287911	0.261736218	-0.1383500423
908194	-4.54511193	0.815283142	-0.518299038	0.915534201	0.0714231738
908445	-4.43843746	0.991566424	1.441051113	-0.574529073	0.3572756344
908469	2.19305464	1.803766114	-0.434726892	0.953104432	-0.5533135626
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
91903902	2.67808519	1.483403662	-1.740162222	1.022590841	-0.2972072410
91930402	-4.02489378	2.938844225	1.658026507	0.224969353	0.5131432277

919537	2.13447312	-1.517245623	0.178807901	-0.500336469	-0.6824469628
919555	-5.16086993	2.380108987	-0.421906048	0.882650977	0.2092240560
91979701	-0.53546080	-0.380380451	-0.442745212	-1.877719723	-0.2266699710
919812	-0.34282174	-3.531373815	0.069607554	-1.549307121	1.9552004887
921092	4.19339024	-2.365311059	1.325978010	-2.037710987	1.7603677988
921362	1.14182718	-5.594535868	1.299893249	-2.186325923	-0.7649016389
921385	1.66401100	-2.387517361	1.500928782	0.875181074	-0.4841195986
921386	-1.01082308	-1.091429307	-0.632142163	-1.756972472	-1.0459061568
921644	1.29978604	1.819814057	0.372979316	-1.846544182	-0.1994515741
922296	2.37134219	1.680097929	0.384190094	-3.014076570	0.0382130321
922297	1.66440651	0.213774641	-0.147942249	-0.196878516	-0.5559910407
922576	1.92598353	1.136739705	0.477781900	-1.156482818	0.2021640255
922577	4.23349159	-0.184110499	-0.326131445	0.587786142	0.7040073381
922840	2.67551655	-2.313756961	-0.053800867	0.340150357	-0.4502519824
923169	3.83312511	-0.495813665	0.922428047	-0.551386509	-0.0799652223
923465	2.54919727	-0.228129228	1.412934778	-1.969057256	1.4550448383
923748	4.69079604	0.766803238	1.542607509	-0.778334167	0.7842069600
923780	2.02325691	-1.260133116	0.504482203	-1.134529125	0.1141621816
924084	2.89340232	1.450359601	0.779859803	-2.967836815	0.3568359788
924342	3.49912218	-1.799249342	2.764024589	-0.865545694	0.6248149194
924632	2.15201013	0.829339088	0.564300199	-3.009108230	-0.5653278607
924934	2.05327740	-1.615038205	1.837342797	-3.110797801	-0.2108571316
924964	3.87388097	-1.083301553	1.858308794	-0.433358360	1.6859553304
925236	4.06028949	-0.122061034	3.235925374	-3.466133119	2.2399371646
925277	0.09858059	0.213372093	0.388587548	-1.011820230	-2.9864399976
925291	1.08841850	-1.291711328	1.428122289	-3.369171941	-0.9465087393
925292	0.48134743	0.177863190	1.031200235	-2.008512908	-0.3268156112
925311	4.86602793	2.129232607	3.411187296	-5.129474909	0.4884909563
925622	-5.91241029	-3.479575000	-3.259923297	-3.914141413	-1.7148732547
926125	-8.73365338	0.573350185	0.896301447	0.384811315	-0.6784463175
926424	-6.43365455	3.573672989	2.457324373	1.176279049	0.0747585153
926682	-3.79004753	3.580897052	2.086640366	-2.503824654	0.5102735378
926954	-1.25507494	1.900624364	0.562235817	-2.087390339	-1.8084001296
927241	-10.36567336	-1.670540206	-1.875379194	-2.353959892	0.0337122683
92751	5.47042990	0.670047220	1.489132801	-2.297135901	0.1845409324
	PC6	PC7	PC8	PC9	PC10
842302	1.410183639	2.1574715203	0.398056982	-0.156980233	-0.8766305374
842517	0.028631162	0.0133463502	-0.240776600	-0.711278966	1.1060217613
84300903	0.540976145	-0.6675790845	-0.097288135	0.024044486	0.4538760367
84348301	3.050737497	1.4286536346	-1.058633755	-1.404204115	-1.1159933184
84358402	-1.225416405	-0.9353895017	-0.635816609	-0.263573547	0.3773724202
843786	-0.450642134	0.4900139551	0.165298432	-0.133355760	-0.5299649041
844359	-0.128835073	-0.3013023315	-0.083624609	-0.079954220	0.2189506984

84458202	-1.255934103	0.9732434974	0.652763899	0.247965464	0.9997064885
844981	0.559052820	-0.2149145974	0.686736938	0.511473855	0.0291618051
84501001	-0.723272337	2.5176245802	-0.364827879	-0.716766009	-1.1646060593
845636	0.127219899	0.6244628561	-0.165603833	-0.301115608	0.3759046163
84610002	0.764194227	0.6655068738	-0.619000411	-0.400588340	-0.3307781202
846226	2.592290301	0.9406696600	3.318863750	-0.747130974	0.3955980681
846381	1.006774257	-1.7974995418	-1.105684467	0.267389882	0.4391951701
84667401	-0.349408795	0.7422274132	0.280679206	-0.674510305	-0.1155553104
84799002	0.495342130	0.9142524133	-0.302257713	0.456538430	0.4467643551
848406	-0.761520960	-0.0867706702	-0.029483040	0.502783775	-0.4992331367
84862001	-0.751827782	0.4415962916	0.413405991	0.018656683	0.3563165037
849014	-1.136688687	-0.2510619539	-0.741499503	0.410086322	-0.5708248435
8510426	-0.048594023	-1.2006310194	-0.403270875	0.404944121	0.0059203674
8510653	0.430462491	0.3381860916	0.861201670	-0.187036602	0.3606065559
8510824	-0.769391365	-0.1908707908	0.244247147	0.546415425	0.0076299444
8511133	3.020386239	-1.0062943167	-0.104544724	0.168363304	-0.2454047607
851509	-0.595316618	-0.0747626295	-0.180094245	-0.363806008	0.6909368005
852552	-0.812165001	0.7996017629	-0.419539913	0.810965561	0.0214595144
852631	1.183160422	0.6013244034	1.306262282	1.100042783	2.2842657360
852763	0.786665153	0.2896641020	0.495541562	0.113090873	0.2951812417
852781	-0.906797174	-0.6452669891	-0.340174492	-0.043873679	-0.3961957456
852973	0.192679233	0.1609885641	-0.378501497	0.356974453	-0.5691360315
853201	0.036227947	0.1838685926	0.218709799	-0.381333094	-0.0364970759
853401	0.241867529	0.4615706215	0.291813749	0.284492214	0.1182178679
853612	1.233593969	1.9763494638	-0.202453666	0.564148659	-0.2297663753
85382601	-0.190839648	-0.8888020606	0.243842164	0.442519010	0.1433737325
854002	0.267243832	1.0317090641	-1.141727259	-0.566293378	0.2446991603
854039	1.000905829	0.7700944229	-0.210139235	-0.585132155	-0.0747302216
854253	2.009267717	-0.7199616429	-1.411392236	0.196789071	-0.7431027433
854268	0.568095150	-0.1425954318	-0.488198042	0.390894097	-0.3824484486
854941	0.290013739	-0.8043318792	1.707341340	-0.891664549	-1.0876247249
855133	-1.493142577	1.2791292757	1.498249655	2.100532774	0.0114924931
855138	-1.036438899	-0.1775681622	-0.198083551	0.431153558	-0.4385877226
855167	0.928295680	0.0418357439	0.048599880	0.666574547	0.3902914311
855563	-2.120772389	-0.4965417472	0.484027443	0.912512891	-0.4303234931
855625	4.307303747	0.4337837927	-1.387017258	-0.352517752	-0.9339783433
856106	0.242568260	0.6132339088	0.067809257	0.282512565	0.1518262957
85638502	0.110049368	0.2333988676	-0.174872997	0.544441256	-0.2067359385
857010	0.423532149	-0.7874816331	-0.790091300	0.111457042	-1.0551322678
85713702	0.575420451	0.2230057137	-0.867569780	0.328258562	-0.1456716219
85715	-0.281861620	-0.1604792421	-0.018943396	0.591809797	-0.1053337966
857155	-0.692882067	0.1971605392	0.040044188	0.419441177	-0.6168907916
857156	0.544804546	-0.6838772921	0.555862941	0.605703404	0.1987895162

857343	0.266013819	0.4536379429	-0.123851495	0.259381187	-0.4343429520
857373	-0.256313209	0.4449438979	0.057879905	-0.492076521	-0.2410267010
857374	0.629337135	0.0607736151	-0.510873270	0.413623505	0.8230489282
857392	0.707227400	0.6479398411	1.537761700	-0.614290601	0.0886086788
857438	-0.656077776	-0.2152637743	-0.207515896	0.505338373	0.1085018162
85759902	1.277739611	-0.3925629141	-0.745416793	0.301153902	0.0751610030
857637	-0.178434830	-0.1853434904	-0.309233059	0.012534355	-0.1128753503
857793	0.461927636	0.5362098378	0.951178388	0.073379908	0.1941817154
857810	0.705119501	0.4873781448	-0.297723909	-0.127261763	0.7362638224
858477	-0.900267281	0.4064726785	-1.225062124	0.345609537	-0.4642608787
858970	2.538550035	0.7457813449	0.909941133	0.262199059	1.3178790775
858981	-0.815018482	-0.3959097935	-0.230734976	0.102956869	-0.9272860914
858986	-1.218994501	0.8193030850	-0.330742314	0.528189577	-0.4855301241
859196	2.955682829	0.2103798445	0.627427082	-0.232120660	0.0413657355
85922302	-1.242117920	-0.0057834579	-0.385706296	0.801372546	-0.1817471124
859283	-0.727422417	-0.5309593004	0.474393258	0.003939003	0.1728882560
859464	-1.188527693	0.1693780934	-0.029824460	-0.111145907	-0.2713131090
859465	-0.405353080	-0.5265287503	-1.082071976	0.427426065	-0.3912329742
859471	2.213816387	-2.5787909992	-1.298010892	3.780791875	-2.7357511959
859487	-0.433947228	-0.8493285940	-0.334869937	-0.004978691	-0.3104418547
859575	-0.291543973	0.2832433298	-0.086188560	0.326867199	0.0333168740
859711	-1.638316786	2.4262266414	-1.317108728	-1.883468421	3.1898325590
859717	-0.539586813	1.5624901202	-0.593662500	-0.672507942	0.0611282077
859983	-0.919638446	0.6971724884	0.393036492	-0.357905538	-0.1474184494
8610175	0.034838302	0.1200189004	0.459971988	0.314694924	-0.0155400843
8610404	-0.994688029	-0.9081210535	-1.100360740	1.244777578	0.0926553152
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8610908	-0.072350138	0.0536554932	0.355866547	0.048832592	-0.1077491295
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8611161	0.138012244	-0.3263920580	0.151919734	-0.226864771	-0.5036154424
8611555	-2.186236690	0.0355707110	0.547079286	-1.647859246	0.3961746350
8611792	-1.421297891	-0.0432176692	2.012767522	-2.966728252	0.0222412116
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8612399	0.967176566	-0.1536701262	0.192125163	-0.083450911	0.4426520533
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86208	1.783555798	0.0004244298	-0.292506839	-0.580370555	0.4991648297
86211	-0.096852967	-0.0225249946	1.596299697	0.179428829	0.4099629648
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862717	-0.595802895	0.0029648840	0.062601958	0.797723981	-0.2095356865
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86408	-1.458702835	-1.0401187280	0.120431563	-0.227163027	0.3361622567
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88147202	-0.085304557	0.6038288041	-0.582829665	0.337061968	-0.3472837941
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88206102	-0.890030772	-0.0926084812	-0.237610416	-0.660896047	0.1093584634
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88249602	-1.235632066	-0.1740702317	0.134050863	-0.358511123	0.2935775385
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883263	-0.903717776	-0.3234838610	-0.997750278	-0.292941036	0.3083451879
883270	-1.290293959	0.0752679863	0.825013438	-0.389172223	-0.5523496558
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88350402	-0.058885827	-0.6896860257	-0.135270646	0.376989944	-0.0245837325
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883852	0.450052375	1.1164334665	0.340265625	0.229727626	-0.3974829468
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884180	-0.522270310	-1.3872740609	-0.096569976	-0.855574174	0.4300033612
884437	-0.998150469	-1.0888060717	-0.743267755	-0.630228537	-0.9259195171
884448	0.628671869	-0.2497484553	-0.329460238	-0.421907737	-0.7932796398
884626	-0.207346366	0.7354213374	-0.618596827	0.142529390	-0.9038995527
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888264	-0.416633188	-0.2494236088	-0.207117555	-0.348075484	0.3473867744
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889403	0.328246316	0.0299221763	0.212049424	-0.068027290	0.0440478431
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8910506	1.777454961	-0.4348833906	-0.097706455	0.149334167	-0.1204520153
8910720	-0.530973923	-0.2795294819	0.038370027	0.095345241	-0.3087819605
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8910988	-0.082454948	1.6506700297	-0.134880881	-0.242658491	-0.6487268459
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89122	0.129569928	-1.2765834790	0.054444065	-0.297078738	-0.1025595747
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89143602	0.870504292	1.4288153440	0.056604771	-1.772331697	1.6749304819
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891703	0.414086721	-0.6568800189	-0.389574742	0.447437433	0.1298348252
891716	-0.656055820	-0.1831651809	0.302520981	-0.106866323	0.0604470360
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891936	0.962920440	0.2364685754	0.700921264	-0.667458810	-0.8409535457
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892438	-0.892012107	1.1708230247	0.240630468	0.401231594	-0.7912809587
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89344	0.287352467	1.0458411839	0.048345725	-0.373310733	0.5402341226
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893526	0.555206557	0.5520636775	0.099323502	-0.477005324	-0.2717178095
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905557	1.241782183	0.1692927893	0.303507283	-0.023140989	0.4959808194
905680	1.625262058	-0.5471226180	-0.849327394	0.368361131	0.2919367892
905686	0.116726716	-0.4680111924	-0.667070503	0.265822576	0.6191312844
905978	-0.782964929	-0.1884663582	-0.156368535	-0.283818610	-0.0656566128
90602302	-0.855452257	2.5023943225	-0.056270488	1.908727005	0.0312926640
906024	-0.239599175	0.6754089610	-0.295097428	-0.499193238	0.0692051297
906290	0.167610330	0.0754607928	0.124933842	-0.160893226	-0.5877873340
906539	0.688714769	0.0754987298	0.045200434	0.778613227	0.3058606674
906564	0.133478398	0.3651157986	0.498157183	-0.711742176	0.0052272732
906616	-0.239186164	-0.7274351177	0.590751188	0.733215705	-0.1561666581
906878	0.475543714	-0.0888980901	0.594727093	0.241075301	0.1971506440
907145	0.534064618	0.6990198575	-0.021404230	0.814478925	1.3128052104
907367	-0.329783732	0.9938632467	0.373519271	0.178584068	0.3765056070
907409	0.269764170	0.5109650849	0.068952658	0.529911757	-0.2080990691
90745	0.507927890	-0.1387719046	0.215789438	1.148416888	0.3339800541
90769601	0.225843093	0.2262523820	0.059322537	-0.221416174	-0.1343794131
90769602	-0.065040152	0.0501820538	-0.579122858	-0.197427671	-0.2002923800
907914	-0.306811042	-0.6492623125	0.204735773	0.498195417	-0.3822299065
907915	-0.990364525	-0.0511584766	0.093881253	-0.626421919	0.1094714105
908194	-0.930064293	-2.2544646797	-0.466263010	-0.779551562	-0.4944820815
908445	-0.029941068	-0.3229932215	0.184135669	-0.211715686	-0.1099176849
908469	-0.168463334	-0.2352388721	-0.258165645	-0.232065607	0.1692935309
908489	-1.081099413	-0.0010498906	0.127505394	-0.009932973	-0.4806494971
908916	0.952481157	0.6728863814	-0.317435674	0.138036068	0.5451107699

909220	0.195170967	-0.0034491992	-0.433572768	-0.140699333	0.1874799788
909231	0.089858744	0.1462143751	0.377690612	-0.542497574	-0.2190587029
909410	-0.103500301	-0.2351662467	0.290218440	0.059239661	0.5054990744
909411	-1.103172853	-0.1347436553	-0.336778691	0.554968936	-1.1858618222
909445	-0.964009904	-0.8135868399	-0.909974880	-0.011726962	-0.7359070393
90944601	-0.936292265	0.6826624088	-0.219293278	-0.308724084	0.2824428958
909777	0.897031883	-0.8902959516	1.094199056	0.255568406	1.5382410183
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
9113156	0.488325468	-0.0462299464	-0.531369578	0.383751065	1.0189269660
911320501	0.344589192	-0.0765341769	-1.082624362	0.163092490	-0.4963524427
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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
914102	0.565106052	0.4685793512	-0.573882748	-0.356776050	0.2895432749
914333	-0.437681039	-1.0429086282	0.759487730	-0.479171345	-0.6395383847
914366	-0.602030766	0.4096827364	-0.141544270	-0.126704802	-0.5507565750
914580	0.213609008	0.0982391416	-0.007360691	0.100535897	-0.5819463924
914769	-1.103639415	0.6339022355	0.059087104	-0.286816236	0.3931897963
91485	-1.446663003	-0.5729903088	0.649548750	-0.535576844	0.2509909032
914862	-0.852480433	0.7049106403	1.345754994	-0.488514486	0.4163000633
91504	-0.507970681	0.2069805672	-0.080099530	-0.051659333	0.9747986067
91505	-0.241932508	-1.0452388229	-0.209946317	-0.039368061	-0.1874087571
915143	0.066333057	1.1529703725	-0.991695109	0.167376682	-0.5695827223
915186	-2.200919526	1.0250951989	2.028889513	-0.236610613	1.1453491173
915276	-3.508790828	0.6042606963	-1.278500206	-1.872556795	1.0201289746
91544001	-0.484723076	-0.1359505647	0.665044251	0.777877875	0.9392975863
91544002	-1.947329468	0.4881934312	-0.255064594	-0.906528375	1.2755281468
915452	-0.833977551	-1.4088879023	-0.297979389	-0.073731957	0.6470988652
915460	-1.602111794	-1.0533691956	0.356568603	-0.428904878	-0.7303104811
91550	0.253668588	0.5472551225	-0.542053825	-0.617650801	-0.0916288468
915664	0.032979942	-0.8752970956	-0.295663965	-0.033414237	0.3412769300
915691	-0.136700223	0.3929176231	0.614735076	0.714787485	0.1215931340
915940	0.072494321	-0.1758143289	0.255077079	0.311421297	-0.2139098582
91594602	-0.773624515	-0.1454686759	0.499925801	0.270529716	-0.4082811925
916221	0.046608047	-1.0005231004	-0.306962199	0.655600375	-0.0907347030
916799	-0.491293222	-0.5167539200	0.050028508	-0.131357405	0.2258787420
916838	-1.017677377	-0.0261084918	0.443355468	-0.658166813	0.5299438963
917062	-1.286369931	0.7480548590	1.375305788	-0.257540461	-0.2080778673
917080	-0.265206232	0.1942744924	0.462310866	0.357702019	0.7940768989
917092	-0.548135411	-0.8140726857	-0.987108671	-0.070507407	-0.0537361968
91762702	-0.006685146	0.9611743974	0.397621795	-1.256638663	0.8486917334
91789	0.097095633	0.7218828231	0.508127340	0.060557805	0.3878654534

917896	-0.600188263	0.1391868086	0.295156517	-0.243768633	0.0023377369
917897	-1.401965911	0.9527774834	-0.299971512	-0.503892654	-0.7846233548
91805	-1.210209018	0.8160391133	-0.373064638	0.292981675	-0.3609872357
91813701	-0.364718273	-0.0462160782	-0.125638066	0.312293703	-0.2469249564
91813702	0.325770470	-0.0944504391	0.149150397	0.318904984	-0.2288534014
918192	-1.686010994	-1.7109061685	2.408540813	0.332918111	-0.1176166151
918465	-0.851940525	-0.0288485824	-0.205098471	0.032406632	-0.3895059803
91858	-1.101161685	0.0869517853	1.295452125	0.161515938	-0.9103205148
91903901	-0.289073515	0.4730366470	-0.069618747	0.543463275	0.0572082633
91903902	-0.197903630	0.4337496082	0.168973422	0.024829540	0.3191275798
91930402	1.934520374	-0.7275859760	0.757319150	-0.175980334	0.2702433954
919537	-1.550311718	-0.7176961616	0.139629661	0.188290346	-0.3701820155
919555	0.578720770	-0.5430102167	0.951930849	-0.247809950	0.5286878926
91979701	-0.523378449	-1.1495594767	1.091132033	0.323915796	-0.1038818740
919812	-2.337461193	-0.4830815304	0.501982823	-0.069804388	1.2788258192
921092	0.042391707	2.1668488112	-1.479915189	-0.322804378	1.1801175946
921362	-1.158207647	0.1913668076	-1.796559226	0.876067543	0.9484780485
921385	-1.188472456	-0.6771595730	0.146514414	-0.291391323	0.1026424111
921386	0.425520296	0.3979358310	-0.835301076	-0.383809102	0.6190792834
921644	0.765081147	-0.4663049042	0.398228821	0.364670551	0.7941292239
922296	0.068753051	-0.4148574879	0.507946096	0.278027691	0.2875814970
922297	-0.930763180	0.5238585798	0.300437607	-0.356308724	0.4182343622
922576	0.114797260	-0.1161527345	-0.013618636	0.058006015	0.1323174915
922577	-0.145962831	0.2596286888	0.149437375	0.564356936	0.5746698535
922840	-0.677751360	0.0640445882	-0.970113001	-0.454875027	0.0952997770
923169	-0.112569772	0.4740694793	-0.169694808	0.410188208	-0.2194120652
923465	0.854769667	1.0210226174	-0.160349809	0.446749349	0.3987268089
923748	0.850625097	0.7520064103	-1.069484886	-0.588800008	0.0688498920
923780	1.783207929	0.3901520318	0.873654798	0.310967487	0.3653727356
924084	-0.582689902	-0.6178681677	-0.938396865	0.362221796	0.4485215927
924342	0.411907169	-0.3073955477	-0.357594218	-0.143055766	-0.4514830478
924632	-0.549918834	-0.4839795902	-0.892397382	0.435103530	0.2439245685
924934	-1.640362885	-1.0878956916	-0.349885533	0.514611257	-0.0049422107
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925236	0.174755382	1.0763071056	-0.129380621	-0.426655069	-0.2770426795
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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
85382601	-0.585836567	0.2547032178	1.119529771	0.2184706425	-0.403789163
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
855625	1.277954488	-0.8309410010	-0.922742372	0.9892697016	0.220725927
856106	0.160272727	0.1311301054	-0.144226466	-0.1816995714	0.160135565
85638502	0.240085901	0.1091591008	-0.164573360	-0.0950096841	-0.193897144
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857155	-0.324354020	0.0931121402	0.393569102	0.5995102295	-0.169047859
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859196	-0.511053316	-1.0091261525	-0.229682636	-0.7934928857	0.139211976
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859283	0.510796559	0.5421158683	0.129143047	0.1548683357	-0.008334256
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90602302	0.568446712	-0.3870840783	-1.035936723	-0.1818408502	-0.059838350
906024	-0.367942018	0.1367986529	-0.724613598	-0.3666306248	-0.344708441
906290	0.244338863	0.6943607622	-0.129550689	0.3600047595	0.080615331
906539	-0.775878601	-0.4982578607	0.302001154	-0.0525467593	0.202497900
906564	0.230666382	-0.9340130494	0.590129424	-0.0304203563	0.790349077
906616	0.784287378	0.1005947754	0.316298584	0.2386402668	-0.003337330
906878	0.348665710	-0.1681611672	0.221543379	-0.1243483898	-0.290258445
907145	0.039388237	-0.7705711328	0.112479526	-0.1769951662	-0.071446788
907367	-0.105409000	0.2189295380	0.315841452	-0.4971442651	0.128150770

907409	-0.098066039	-0.3714077431	-0.107936858	0.2148874460	0.261733251
90745	-0.294018385	-0.4432421508	-0.155283599	0.2176786652	0.026972138
90769601	0.075191001	0.3949339823	0.270875034	-0.5475871587	-0.029071084
90769602	0.409537036	-0.1470984446	0.495252130	-0.0700425469	-0.013660800
907914	1.011034162	-1.2466625351	1.094800727	-0.4903384327	-0.520238112
907915	-0.196847173	0.0977631101	0.333884393	0.2403149333	0.387682009
908194	-0.153839783	0.8933575853	0.113104196	-0.2952590052	-0.339417894
908445	-0.370490599	-0.2814114776	-0.357324961	0.3051133657	0.193852862
908469	0.201968069	0.1436794229	0.069879671	0.3147938889	0.064438374
908489	-0.094637704	0.2392740350	-0.385514121	-0.3118388906	-0.189104530
908916	0.375750654	0.3569979786	0.054808550	-0.0165833121	0.281640888
909220	-0.292076005	-0.1976388340	-0.152324964	-0.2847363352	0.004681770
909231	-0.078430690	0.0188002577	-0.269916821	0.1368716751	0.048366741
909410	0.314208108	-0.1641884052	-0.092492063	-0.3288963431	-0.111176801
909411	0.263217116	-0.8953011390	-0.477419438	-0.1808677660	0.148161949
909445	0.127443698	-0.7420749754	-0.516353926	0.3904558921	-0.088342573
90944601	0.408904198	0.1995708358	0.486910166	0.2734708114	0.121766965
909777	-1.438452742	-1.7938747444	0.161070023	-0.3039571250	-0.345216401
9110127	-0.375278992	0.0304745502	0.308766012	-0.2142790920	0.006676929
9110720	1.113054181	0.7086041606	-0.095618332	-0.5663803643	0.035415002
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
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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
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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
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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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91227	-0.182316821	-0.0185594843	0.025351655	-0.0237769481	-0.107980895
912519	0.270190534	0.4252029656	-0.191220618	-0.1431104463	0.013293072
912558	0.200475839	0.4272385494	0.213721370	0.1529513498	0.147794029
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913102	-0.131537575	-0.0758429334	0.198911781	0.4966581680	0.038938641
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922840	-0.043766957	-0.1056845291	-0.298157590	-0.3004703745	-0.194792207
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927241	0.178471102	-0.6968480142	1.224117875	0.2185054033	-0.229389196
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84300903	0.3248247158	0.1907506408	-8.789759e-02	-0.3922811953	-0.2043524231
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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
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846381	-0.1992780260	0.0096995090	9.339247e-02	0.1010674465	0.1967267792
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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
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852781	-0.2633107617	-0.0230320660	5.164379e-02	0.3674136487	0.0390322000

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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
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855563	0.4138240100	-0.1707322382	3.545141e-01	-0.0644683713	0.0680433928
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857010	-0.0516728726	-0.3229228398	-8.174019e-03	0.1334369447	-0.1998283033
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857373	0.0267599697	0.2211230693	1.393874e-01	0.0785551072	0.0905176134
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85922302	0.2644121106	-0.3189750634	1.006240e-01	0.0343908745	-0.1639586428
859283	0.4712897357	0.1030461736	5.156184e-02	-0.0435454461	0.0120385599
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88249602	-0.1121982875	0.2002678589	1.589603e-01	0.1212523611	0.2150321129
88299702	-0.3702896832	-0.4119886469	1.197166e-01	-0.3448581980	-0.0226612217
883263	-0.4898973868	-0.0248405667	1.744737e-02	0.3357491843	-0.2310458903
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904302	0.0074742257	0.0435690589	-4.971364e-02	-0.0536301773	-0.1192700870
904357	0.0817691942	0.0039110113	-3.661696e-02	0.0751196101	-0.1545004643
90439701	-0.0833591875	-0.4936532611	1.511184e-01	0.7006220956	0.2917785849
904647	0.3744590676	-0.1615156306	1.377361e-01	0.1174774659	0.1149746998
904689	0.1847504132	0.0521923271	1.299577e-01	-0.0362879644	-0.1059190540
9047	0.0111722119	0.4823923865	-1.919687e-01	-0.0796564598	0.1328729071
904969	-0.2617227443	-0.2455731549	-8.282897e-02	-0.0770421559	0.1057327633
904971	0.0641643227	-0.0323670344	-1.214893e-01	-0.0533258590	-0.2063859502
905189	-0.1587492325	0.0886893548	2.530684e-02	0.0562390245	-0.0630287693
905190	0.1863543693	-0.0982790875	-5.729795e-02	-0.0388984179	0.0557874647
90524101	-0.0429222796	0.0165584409	7.914470e-02	-0.0618518508	-0.1390506688
905501	0.4412085793	0.0674448838	1.243995e-01	-0.1425535019	0.0599460017
905502	0.7728127083	0.1611878014	3.280364e-01	-0.0244310856	0.2654863902
905520	0.2427710985	0.3338411480	-1.592733e-01	-0.1344298159	0.1286209794
905539	0.1236608229	0.1734031309	-3.726524e-02	-0.2076969781	-0.1782328735
905557	-0.3249598417	0.2628099431	-6.843972e-02	-0.0705852651	0.2497885990
905680	-0.2351073479	-0.0582276787	4.709226e-02	0.1036232039	-0.1451630506

905686	0.0513147073	-0.0161882978	2.105953e-01	-0.1507661340	-0.2487480873
905978	-0.1822978116	-0.1146730419	-8.631163e-02	0.0731007670	0.0435188064
90602302	-0.1451851214	-0.4061454862	-4.109776e-01	-0.1762098642	0.0725047518
906024	0.0100219071	0.1827189984	2.228853e-01	0.1121369401	-0.0861705150
906290	0.0020694751	0.1932744745	-2.120432e-01	-0.0005163735	0.0389376292
906539	-0.1461766809	-0.0148695752	7.423495e-02	0.1983024808	0.0625604783
906564	-0.1057334449	-0.0604261221	2.658781e-02	0.4153361325	-0.0751121436
906616	0.1554229198	-0.0999754480	6.865526e-02	-0.1337791973	0.0936140768
906878	-0.0346413992	-0.0449609493	8.376150e-03	-0.2283698549	0.1980684171
907145	-0.3398433202	-0.2718880642	-1.825878e-01	0.1952621463	-0.1548608524
907367	0.0895074097	0.0906375771	1.146371e-01	-0.1802758003	-0.0941855952
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
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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
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911673	-0.1709974620	-0.0123870580	1.253255e-01	0.0402899453	0.0872854803
911685	-0.2423751707	0.2024671275	9.986513e-03	-0.0191811381	-0.0776162133
911916	0.0066630909	-0.0333292719	9.492904e-02	0.1037114236	0.1504849896
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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
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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
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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
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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
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919555	0.2236113177	-0.0556410397	-1.201821e-02	-0.1633614569	-0.0988305409
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921092	0.2246393773	-0.0759854108	-2.144004e-01	0.1077679119	-0.0754591770
921362	0.1157153017	-0.0946085126	5.607015e-01	-0.1632070601	-0.4108193773
921385	-0.0562823823	0.1692280446	-1.213046e-02	-0.0535534599	0.1078587734
921386	-0.1524138427	-0.0391271728	1.677550e-01	0.1610284957	-0.1314182663
921644	-0.2181697442	0.0270419575	7.676963e-02	-0.0335181090	0.1858465398
922296	0.1223984599	0.1891922492	-3.446057e-02	-0.2263650827	0.0703565400

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922576	-0.0494701048	0.0013069407	4.558326e-02	-0.0629478688	-0.1050644118
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922840	0.2476202326	-0.1276536694	4.694131e-01	-0.2003872236	-0.0195139777
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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
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874839	0.0847599985	0.1348421123	5.341277e-02	0.0126958509	0.0614824315
874858	-0.2651270396	0.2183750065	-2.198504e-01	-0.2920974248	0.0413009888
875093	0.0454522168	-0.0948733387	1.816105e-01	-0.1203932187	-0.3420239365
875099	1.1191056263	-0.2331475216	-3.336950e-01	0.0482062330	0.1305932880
875263	0.0178849878	0.2724365942	4.929810e-02	-0.0887926845	-0.0419097305
87556202	-0.0061040145	-0.0824708979	5.438916e-02	0.3377316084	0.0861811234
875878	-0.0387702877	-0.0713981822	-8.249070e-03	0.0478830258	0.0160641382
875938	-0.4619616703	-0.1195515099	-6.784419e-03	0.0100042357	-0.0281638239
877159	0.0042762835	0.1533916163	-1.039563e-01	-0.1359071019	0.0751791221
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877500	0.1998626546	-0.2994766894	1.318315e-01	-0.0695652574	0.1164275044
877501	-0.1038052557	0.2178052406	-1.049581e-01	0.0526821849	-0.0508188155
877989	0.1279552568	-0.0945051018	-2.438231e-01	0.1472610027	0.0929555605
878796	-0.0027228859	-0.1913806191	3.426568e-01	0.1284350338	0.0829815306
87880	-0.1000833614	-0.0083708106	3.090184e-02	0.0011103715	-0.3573301089
87930	0.0837245389	0.0683833173	7.602116e-02	-0.0867975599	0.0794350264
879523	0.3708654703	0.1067653793	1.684507e-01	0.0644184257	0.0823558647
879804	0.0235208407	-0.0396041087	5.086282e-02	0.1508615288	0.0377821851
879830	-0.0661588882	-0.0406963146	5.900265e-02	0.0324913417	0.0535513031
8810158	0.2540257054	-0.0214357526	1.438473e-02	-0.0144980797	-0.1542563649
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881046502	-0.0423736332	-0.0014300495	2.555743e-01	0.0806142911	-0.0768804745
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8810987	-0.1290711318	-0.1607487843	-6.570164e-02	-0.1711515978	0.0349162086
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8812818	0.0410599948	0.0233995341	8.345030e-02	0.0734162888	0.0305945738
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901288	0.1371863492	-0.2443319223	-1.319252e-01	0.0115020589	-0.1567813559
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9013594	0.1294427588	0.0375346486	2.253888e-02	0.1271343672	0.0594046933
9013838	0.1660175210	-0.4131532227	-3.139968e-01	-0.0302281310	-0.7739469995
901549	-0.1745452433	0.0253088952	-4.426586e-02	0.1026174484	-0.0209835475
901836	0.0319615134	-0.0968231219	2.486895e-03	0.0071948356	-0.1162327543
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902975	-0.1919506336	0.0146756846	-9.445196e-03	-0.0015569820	0.0681560852
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903507	-0.1410053670	0.0209689852	-1.014002e-03	0.0368520285	0.1853021199
903516	0.1814668966	0.0199690432	4.537036e-02	-0.0069415733	-0.3393143357
903554	0.0970833511	0.0376140702	9.688994e-02	-0.0522451115	0.0363768619
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923465	0.0732487201	0.0198345047	-9.193927e-02	-0.0172044830	-0.0976366593
923748	-0.0119356005	0.0136962943	-1.528663e-01	0.0443186800	0.0072493585
923780	-0.0388647303	-0.0294327168	-1.437595e-03	0.0211029594	-0.0051501501
924084	0.0994771923	-0.0523366815	-3.192496e-03	-0.0208073885	-0.0508996216
924342	0.1162426476	0.0972882879	7.659123e-02	0.1633788667	-0.1343697535
924632	0.0389261142	0.0150285734	-2.689412e-02	0.0451796495	0.0452185715
924934	0.3942051539	0.1442763873	7.512395e-02	0.1142014279	0.1297250296
924964	0.2658959188	-0.0852756994	-1.773711e-02	0.0573839788	0.0860394792
925236	0.2548848500	-0.1344057649	-2.695888e-01	0.1253596547	0.1409818413
925277	0.0974032157	-0.0506046046	4.281686e-03	0.0074148594	0.1833745030
925291	0.0104818333	-0.0097405680	3.344908e-02	-0.0084439272	0.0371458564
925292	0.0720893347	0.0359652007	4.155828e-02	0.0841586957	0.0655886608
925311	0.6438555162	-0.1160958384	-1.348357e-01	0.0778267477	0.2155456879
925622	-0.3366411323	-0.5256708725	4.037840e-01	-0.2315981974	-0.0744296594
926125	-0.2819119524	-0.0637883885	3.027516e-01	0.3971743169	0.1344740836
926424	0.0068818177	0.0669407679	8.851262e-02	-0.1078034921	-0.2193267810
926682	-0.0097931016	-0.0195459671	-5.535634e-02	-0.0860588433	-0.0011958031
926954	-0.0365600992	-0.0632967943	-2.001358e-01	0.0447797442	-0.0024266219
927241	0.1405238587	0.0424409640	1.686715e-01	0.1957966922	-0.3774982893
92751	0.2744382324	0.2430237050	3.788121e-02	0.0750448656	0.0174926193
	PC26	PC27	PC28	PC29	PC30
842302	-0.2013263051	-2.523629e-01	-3.388464e-02	4.560759e-02	4.712774e-02
842517	-0.0410926274	1.811108e-01	3.259550e-02	-5.682424e-03	1.866234e-03
84300903	0.0047312486	4.952586e-02	4.698448e-02	3.143131e-03	-7.498749e-04
84348301	-0.2749828222	1.833008e-01	4.244698e-02	-6.923387e-02	1.991989e-02
84358402	0.0392197801	3.213957e-02	-3.475564e-02	5.033481e-03	-2.119512e-02
843786	-0.0302723330	-8.438081e-02	7.296587e-04	-1.970400e-02	-3.456433e-03

844359	-0.0267249755	2.074464e-02	-4.673321e-02	-1.296846e-02	-5.468279e-03
84458202	-0.0594137473	6.662113e-02	2.615274e-02	-2.859407e-03	-1.696347e-03
844981	-0.0549994685	3.829073e-02	3.712728e-02	1.169858e-02	-5.276735e-03
84501001	0.3108206873	-2.849340e-03	1.356126e-01	3.775496e-02	-3.823914e-03
845636	-0.0011132902	-1.675329e-02	-1.787033e-02	-8.472303e-04	8.589286e-03
84610002	-0.0988438257	-5.025511e-02	1.672603e-02	-8.893782e-03	-2.264877e-02
846226	0.1544995990	-1.601695e-01	2.189479e-01	-4.168578e-02	-3.128057e-02
846381	0.0185216253	-6.094451e-03	-2.104929e-02	1.333681e-02	-5.901062e-03
84667401	-0.1817110172	1.686671e-01	-1.248878e-02	5.471581e-02	2.767104e-03
84799002	-0.0132177128	-1.545333e-01	-8.311679e-02	3.490813e-02	-4.127870e-03
848406	-0.0741980103	1.496604e-02	1.660988e-03	-2.340097e-02	-1.378581e-02
84862001	0.0998664510	-7.732604e-02	6.074890e-02	-9.698796e-03	-1.266565e-02
849014	0.0289918326	-5.273101e-02	-1.596623e-03	4.840404e-02	5.987472e-03
8510426	0.0314450550	-5.423713e-02	9.789698e-03	7.673122e-03	1.840938e-03
8510653	0.0355362005	-9.840364e-02	-1.503860e-02	-1.881974e-02	-1.131431e-02
8510824	-0.0038246508	4.633703e-02	-1.209599e-02	-6.511882e-03	-8.590024e-03
8511133	-0.1164538409	-2.216492e-02	1.015524e-03	-1.634073e-02	1.872530e-02
851509	0.0916050281	1.468242e-01	6.867301e-02	1.786932e-02	1.386952e-02
852552	-0.0874379704	-1.431175e-01	3.447092e-03	-2.255543e-02	-3.999663e-03
852631	-0.0677237649	-4.147013e-02	-2.951161e-02	-1.657229e-02	-3.178130e-03
852763	-0.0357830509	6.090625e-02	-2.388746e-02	5.642173e-03	-1.339863e-02
852781	-0.0483807591	7.474866e-02	-1.755439e-02	2.208178e-02	-8.553100e-03
852973	-0.0463898691	-2.400501e-01	-1.852092e-01	-1.492340e-02	9.578804e-04
853201	0.0860853392	-1.294573e-01	1.125290e-02	3.714214e-02	2.014350e-03
853401	0.1964367931	-2.131927e-01	-9.860072e-02	2.126908e-02	1.608133e-02
853612	0.0582729648	-2.306134e-01	-1.768593e-01	-7.475334e-02	-1.128161e-03
85382601	-0.1339382974	-1.253022e-01	1.125350e-01	-4.434909e-03	1.886774e-03
854002	-0.0291953182	4.075234e-02	1.254330e-02	1.420997e-02	-1.165588e-02
854039	0.0209466264	-2.240063e-02	4.957060e-02	5.795811e-03	-3.132503e-02
854253	0.0848362899	1.615390e-01	-1.339550e-02	3.934955e-02	3.490852e-03
854268	-0.0342079425	-6.060832e-02	-1.122619e-01	6.738025e-02	1.370542e-02
854941	-0.0875148451	-1.650241e-01	-3.219827e-02	-1.617018e-02	5.144779e-04
855133	0.1758886282	1.604604e-01	5.386968e-02	1.842240e-01	1.989133e-02
855138	-0.1021726527	1.289034e-01	-7.427828e-02	2.945002e-02	2.146481e-03
855167	-0.0714635560	7.019861e-02	1.158537e-02	-2.247350e-02	-1.566702e-02
855563	0.1507064526	-3.820128e-03	-4.882003e-02	2.547541e-03	2.308071e-03
855625	-0.0097682136	-2.479041e-02	-7.096251e-02	-1.155836e-02	1.589353e-02
856106	0.0612412639	-1.019745e-01	-1.370845e-03	-7.961068e-02	-1.397809e-02
85638502	-0.0171718343	-4.877762e-02	1.425226e-02	-7.139958e-02	-1.085998e-02
857010	0.1332320422	1.573983e-02	5.422979e-02	-6.387622e-03	-7.213235e-03
85713702	0.1425991752	5.474195e-02	-1.825670e-02	-2.922901e-02	-2.649774e-03
85715	0.0028553147	1.498919e-02	1.783116e-02	3.335616e-02	-1.785149e-03
857155	0.1324480590	-2.199369e-03	3.816358e-03	-1.275649e-02	-8.411835e-04

857156	0.0241950429	3.299221e-02	-8.502787e-03	-1.188563e-02	-2.865884e-03
857343	-0.0209776680	6.139058e-02	-9.541691e-03	1.959516e-02	4.711585e-04
857373	-0.0739111736	3.792347e-02	-1.418360e-02	2.929794e-02	7.270380e-03
857374	-0.0893671777	-1.803353e-02	4.758468e-03	-2.715377e-04	1.642671e-03
857392	-0.0606178187	-2.190753e-02	-4.764801e-02	3.402123e-02	1.303268e-02
857438	-0.1075797759	1.268873e-01	2.923216e-03	1.113450e-02	-4.343678e-03
85759902	-0.0058355492	2.774052e-02	1.416855e-02	2.401521e-03	-1.940349e-03
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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
858477	0.0400160356	-1.686265e-02	-1.071847e-02	1.590382e-02	-6.883016e-03
858970	0.0568714092	7.112930e-02	8.806180e-03	1.288489e-02	6.812673e-03
858981	0.0788845808	2.201995e-01	-2.946023e-02	-1.562093e-02	5.269029e-03
858986	-0.0098332379	-1.134152e-03	9.638361e-02	2.795349e-03	-1.901582e-02
859196	0.0335429502	5.289948e-02	-8.110426e-02	-1.615960e-02	-1.141707e-02
85922302	-0.0290360085	-1.228215e-01	9.356070e-03	-8.243027e-02	-4.849783e-03
859283	0.0465312637	-1.922755e-01	1.659535e-02	6.820462e-03	3.908128e-03
859464	0.0604134233	9.187789e-02	-1.975320e-02	9.282008e-03	5.559412e-03
859465	0.0761632336	-9.449785e-03	3.607516e-02	1.644550e-02	3.225830e-03
859471	0.2804283970	-2.445271e-02	6.842730e-03	7.394054e-03	-1.258908e-02
859487	0.0091579194	-5.251089e-02	1.240814e-02	1.391723e-02	6.642330e-03
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859711	0.0533337084	1.533702e-01	2.941771e-02	-5.665631e-03	-1.872210e-03
859717	-0.0797672858	1.517182e-02	8.814363e-02	-3.560637e-02	-2.146240e-02
859983	-0.0717088123	-3.146387e-02	-4.010897e-02	-4.737433e-02	-9.918869e-03
8610175	-0.0169312595	5.540068e-02	3.076006e-02	-2.228666e-02	-2.118429e-02
8610404	-0.0026046375	-9.489266e-02	2.564001e-02	-5.653385e-04	-5.060816e-04
8610629	0.0207984498	-1.733530e-01	5.676664e-02	3.943605e-02	2.590542e-04
8610637	0.0028980342	-1.148445e-01	-4.691931e-03	5.128264e-02	2.095843e-02
8610862	-0.0292208810	-4.654883e-02	5.126402e-02	3.512806e-02	-7.332746e-02
8610908	0.0603063922	7.898511e-02	1.797480e-02	7.861041e-03	-4.882806e-03
861103	-0.0093357855	-4.725720e-02	-2.313927e-02	-4.685092e-03	-5.544045e-03
8611161	0.1263341389	-1.278413e-01	7.181074e-02	-8.010741e-02	8.607098e-03
8611555	0.1532547175	2.065368e-01	-6.524724e-02	-2.149175e-02	6.506712e-03
8611792	0.0648110159	-2.543076e-01	1.221035e-01	1.212184e-04	-1.076054e-02
8612080	0.0007406985	4.610443e-02	-3.731944e-04	-1.674579e-02	-8.527853e-03
8612399	-0.0331782104	-7.289186e-02	-4.793390e-02	-1.125719e-02	-1.093361e-02
86135501	-0.0897923772	3.869966e-02	1.113252e-02	-1.599296e-02	9.423312e-03
86135502	0.0997869683	-2.630915e-02	5.753144e-02	-1.604379e-01	3.833652e-02
861597	0.0314408018	-5.616749e-03	-1.563489e-02	1.027323e-02	6.715216e-03
861598	0.0664403562	-1.205373e-02	2.007444e-02	2.728987e-02	7.404621e-03
861648	-0.0003730261	-1.122276e-02	2.580197e-03	9.258593e-03	-8.194443e-03
861799	0.0128416323	-2.061422e-01	-2.391746e-03	2.073897e-02	-1.300581e-03

861853	-0.0569819083	2.149318e-02	2.606583e-03	-6.390703e-02	-1.160386e-02
862009	-0.0083745308	2.504138e-02	2.196984e-02	-1.134910e-02	-1.335217e-03
862028	-0.0497851056	-4.559731e-02	4.608258e-02	-1.812182e-02	-1.283830e-02
86208	0.1201800560	4.208440e-02	3.674203e-03	-2.057035e-02	5.126475e-03
86211	-0.0506141608	-5.027953e-02	-2.802634e-02	3.203650e-03	-4.353658e-04
862261	-0.0312503688	7.193844e-02	-9.341616e-03	2.552925e-03	-1.402809e-02
862485	0.0844032885	-1.349955e-01	9.281856e-03	4.750116e-03	-3.466455e-03
862548	-0.0257304933	-5.673535e-02	9.393122e-04	1.313570e-02	-7.638205e-03
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
864018	0.0296359776	-1.096758e-01	1.567934e-03	1.856333e-02	2.232873e-03
864033	-0.0464114027	6.782503e-02	-1.148012e-02	3.717658e-03	7.837625e-04
86408	-0.0523768243	-1.293519e-01	2.375350e-03	5.226188e-03	1.553986e-02
86409	-0.1891288061	1.521924e-01	7.250653e-02	-8.085429e-03	-5.721149e-04
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
865468	-0.0202921763	-5.942333e-02	5.064636e-02	3.555551e-03	-1.133817e-03
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
8670	0.0011718217	-1.596438e-02	4.600205e-02	-3.640996e-02	-7.315411e-03
86730502	-0.0528996064	4.515608e-02	-1.839276e-02	-7.431547e-03	-5.422633e-03
867387	-0.0282699050	-1.184145e-02	-2.195837e-02	-1.263740e-02	-4.758611e-03
867739	0.1191672859	-3.904577e-02	1.757057e-02	1.638597e-02	-1.846504e-03

868202	-0.0227364289	-4.455291e-02	6.116922e-03	1.501203e-02	-7.453719e-03
868223	0.0238785713	7.539973e-02	-1.181029e-03	-1.745342e-02	-3.718782e-03
868682	0.0453529768	3.918415e-02	-9.718923e-03	-6.407847e-04	-8.921861e-04
868826	-0.0046654928	1.410890e-01	-3.285330e-02	4.483727e-02	2.993330e-02
868871	0.1495819096	1.751436e-02	-4.783602e-02	-2.357881e-02	-2.338267e-04
868999	-0.0077814350	4.950486e-02	7.386867e-03	-1.029275e-03	-2.315401e-03
869104	0.0199857883	-9.378889e-02	5.731649e-03	-5.278943e-03	-5.891067e-03
869218	0.0049677942	5.801943e-02	-2.392725e-02	-1.320679e-02	-4.310563e-03
869224	0.0043929369	-3.683012e-02	-2.305639e-02	1.838762e-02	-1.360631e-03
869254	0.0495119056	4.722858e-02	-1.055344e-02	-1.275491e-02	2.378069e-03
869476	-0.0263294206	-6.201771e-02	2.591795e-02	1.040242e-02	-1.781949e-02
869691	-0.0862135434	1.222878e-01	-8.321784e-03	2.277179e-03	-1.119635e-02
86973701	-0.0493239513	-3.627953e-03	2.379318e-02	-1.808326e-03	9.272048e-04
86973702	-0.0490175920	-2.581647e-02	-3.235618e-02	1.251382e-02	4.893394e-03
869931	-0.0423402825	5.330201e-02	3.199615e-02	-1.397318e-02	-9.593652e-03
871001501	-0.0734031813	-3.077032e-03	1.873760e-02	4.537366e-03	-8.726467e-03
871001502	0.0996617946	9.504622e-02	2.103335e-02	-1.545364e-02	1.359031e-02
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
8711003	-0.0066142429	-3.117548e-02	2.147334e-02	5.902105e-03	-2.092831e-03
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
8712289	0.1648438853	3.025702e-01	-2.340033e-02	-8.324051e-03	1.848549e-03
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87127	-0.0022116006	-3.659396e-02	1.749325e-02	1.437802e-02	-3.555458e-03
8712729	0.0111851727	-5.483086e-02	9.163004e-03	-1.515471e-02	-1.308248e-02
8712766	-0.1128389699	4.360550e-02	-2.252514e-03	-4.939426e-03	7.403680e-03
8712853	0.0047133540	-4.722385e-02	9.407798e-03	3.756833e-03	5.469545e-03
87139402	0.0058479819	-5.422273e-02	1.519286e-02	-1.626943e-02	-1.424677e-03
87163	-0.0621792689	-4.679305e-02	-2.794307e-02	-8.322050e-02	-9.724531e-04
87164	-0.0204716584	-2.174815e-01	8.286055e-03	-1.945686e-02	-1.449219e-03
871641	-0.1283484525	-2.105483e-01	-1.812564e-02	-3.558919e-02	-1.771539e-04
871642	-0.0652630427	2.760698e-02	1.000593e-02	4.358827e-03	-7.483755e-03
872113	0.0316665578	7.087026e-02	5.732845e-03	6.943427e-03	-4.316588e-03
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87281702	0.0149367843	-3.373768e-02	-2.874672e-02	4.494640e-02	6.648435e-03

873357	-0.0565577633	-3.716741e-02	1.515057e-02	-5.631381e-03	7.259187e-03
873586	-0.1181480118	-4.202926e-02	-2.804052e-03	2.235523e-02	-3.575397e-03
873592	0.5075073909	3.875397e-01	-3.649879e-02	-4.817298e-02	-1.234021e-02
873593	0.1715237713	1.077659e-02	1.370693e-01	1.607476e-02	-4.130650e-03
873701	-0.0408188409	-1.855354e-02	5.026622e-02	-2.081737e-02	-6.144694e-03
873843	-0.0032329462	4.783222e-02	-5.100500e-02	-6.710928e-03	-1.311918e-02
873885	0.0566462354	-4.700916e-02	5.079073e-02	-1.107745e-03	-3.410878e-03
874158	0.0326076649	7.283462e-02	7.799828e-03	4.257019e-03	-6.436029e-03
874217	0.0970624158	4.300686e-02	2.557256e-02	3.511308e-03	4.228434e-03
874373	0.0030832009	2.037473e-02	-1.368604e-02	8.753567e-03	1.345992e-03
874662	0.0059062159	-1.096237e-02	-8.635239e-03	1.119167e-02	-4.636712e-03
874839	0.0290239084	2.453131e-02	1.775126e-02	-1.022940e-02	8.378152e-03
874858	0.0639676895	-4.746824e-02	4.534134e-02	1.788060e-02	3.942582e-02
875093	0.0691856368	-1.014548e-02	9.965295e-03	4.872696e-02	-1.213839e-03
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875263	-0.0723515248	1.223090e-02	7.793775e-03	-2.935833e-02	-1.693386e-02
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875878	-0.0043906404	-2.636426e-02	9.351632e-03	2.336560e-02	1.097957e-03
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877159	-0.0125777667	-5.077927e-02	-6.943705e-03	2.010879e-03	7.766158e-03
877486	-0.0457090424	4.732110e-04	-1.101138e-01	5.298756e-03	-1.730179e-02
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87880	-0.0522821695	-1.586622e-01	2.118169e-02	-2.050653e-02	1.151177e-03
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879804	0.1136387746	1.087258e-01	1.246010e-02	1.874143e-02	1.204608e-03
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8810158	0.0266412052	-1.522403e-01	-4.513389e-02	3.041498e-02	-1.748377e-02
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8810528	-0.0129848991	3.220875e-02	6.694608e-03	-1.558529e-03	2.875884e-03
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8810955	-0.0569743952	-6.261779e-02	-4.860221e-03	-5.786062e-03	1.020700e-02
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8811523	0.1225618939	2.156147e-03	5.564389e-03	-3.560424e-03	-9.562893e-03
8811779	0.0207754683	5.065478e-02	-1.366777e-02	-2.066266e-02	-6.442102e-03
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88119002	-0.0251689372	-3.974507e-02	1.042405e-01	1.826330e-02	-1.796512e-02
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8812818	0.0376677232	-6.505149e-02	-8.533465e-03	4.279110e-03	6.539797e-03
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88143502	0.0038497261	-3.295088e-02	1.592811e-02	-7.082278e-03	-2.641670e-03
88147101	0.0417846570	1.014432e-01	-1.676444e-02	-2.230372e-02	-1.486683e-03
88147102	0.0227429302	-3.082262e-02	-3.311199e-02	1.177004e-02	1.492911e-02
88147202	0.0421147176	4.962457e-02	2.486351e-02	2.865424e-02	-1.872174e-02
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882488	0.0118534104	-4.761135e-04	-1.400283e-02	1.197801e-02	-4.726901e-03
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88299702	0.2409967021	2.607101e-02	4.560323e-02	8.437318e-02	1.316171e-02
883263	0.0681708739	5.063556e-02	-5.389681e-02	-6.290592e-02	1.779366e-02
883270	-0.0523829446	-4.076603e-02	-6.505627e-03	-2.591461e-03	7.136696e-03
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883539	-0.0375142186	-2.700686e-02	1.148629e-02	2.074699e-02	1.639722e-03
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884437	-0.0220714640	2.741591e-03	3.190374e-03	2.157953e-02	-1.946126e-03
884448	-0.0014005785	-4.654162e-02	1.083157e-02	3.151084e-02	-1.264109e-03
884626	0.1601457813	-6.855604e-02	-3.446241e-02	8.982938e-03	8.781242e-03
88466802	0.0713281560	3.797545e-02	-2.621500e-02	-8.606330e-03	-1.208039e-03
884689	0.0647306238	5.543553e-02	1.748686e-02	9.221382e-03	-1.937773e-03
884948	0.1660699609	-7.638441e-02	6.711925e-02	-9.449905e-03	-3.081369e-03
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88649001	0.1694749187	-1.452418e-01	-4.223670e-02	1.760845e-02	-4.754179e-02
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887549	0.0002781657	5.127961e-02	-5.011346e-02	7.952146e-03	1.184872e-02
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8910748	0.0375752134	3.203805e-02	8.858806e-03	-2.961281e-03	-1.207918e-03
8910988	0.1490111178	1.779051e-02	-4.740955e-02	1.222139e-02	-3.728448e-02
8910996	0.0327419876	8.148477e-03	8.654636e-03	-1.952291e-03	-6.147097e-03
8911163	0.0087349948	-2.586902e-02	-1.982127e-02	-2.952873e-02	1.231110e-02
8911164	0.1985841490	-1.657353e-01	2.135428e-03	4.348128e-02	-6.801149e-04
8911230	-0.0883232465	1.507252e-03	1.628523e-02	-1.568217e-03	-8.397414e-03
8911670	0.0367848322	6.676286e-02	1.394801e-02	-9.331447e-03	1.667624e-02
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8912049	0.0240789261	-2.159175e-02	-3.065026e-02	3.221432e-02	2.504987e-02
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892399	-0.0273016481	-5.583721e-02	1.780719e-02	-1.012395e-02	4.592012e-03
892438	-0.0282443641	8.385431e-02	7.402991e-03	7.987707e-03	-4.376741e-03
892604	0.0261265002	-1.263315e-02	8.707451e-03	8.122662e-03	1.265416e-02
89263202	0.0373782196	-2.276784e-01	3.191511e-02	5.069162e-02	-1.893042e-02
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894089	-0.0750516303	1.104417e-02	5.262369e-03	-4.431895e-04	1.289335e-03
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894326	0.1036850662	-4.122734e-02	3.720628e-02	-1.037487e-02	3.310589e-03
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894618	0.0737474821	5.966743e-02	-1.866679e-02	-2.073327e-02	5.505822e-03
894855	-0.0399388582	3.192642e-02	-2.290184e-02	3.251700e-02	9.298409e-04
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89511501	-0.0114795335	-5.463659e-02	-1.772000e-02	9.825546e-03	3.095435e-03
89511502	-0.0224375420	-9.936780e-03	1.846325e-02	-3.357607e-03	8.248290e-03
89524	-0.0442326107	-8.560484e-02	1.030624e-02	-2.444757e-03	-8.423257e-04
895299	-0.1029633808	-1.081095e-02	-3.677552e-03	8.508050e-03	1.337424e-03
8953902	-0.0926684430	-7.409677e-02	-9.410580e-03	-1.893671e-02	8.456140e-03
895633	-0.2343196380	-4.273295e-02	-1.729934e-02	2.766251e-02	-1.695853e-02
896839	0.0701397783	-1.335309e-02	5.626629e-02	-3.558945e-03	-1.949163e-02
896864	0.0515719217	-4.759101e-02	-6.867389e-03	2.357617e-02	8.714155e-03
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897137	-0.0749311508	-1.986689e-02	-1.359114e-02	-2.684112e-02	-6.402074e-03
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89812	0.1118755986	-4.887141e-04	-2.329884e-02	-1.658174e-04	9.302297e-03
89813	-0.0287432556	-2.310408e-02	1.206153e-03	6.776529e-03	-9.223971e-03
898143	0.0820478379	-8.139339e-02	-9.096609e-03	-2.153234e-02	1.767722e-03
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9011494	0.2935362319	-1.723742e-01	2.185214e-02	-2.273933e-02	-4.674882e-03
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9113538	-0.1457441362	7.226593e-02	-5.951642e-02	1.311257e-02	-3.413340e-02
911366	0.0957538784	-3.485376e-02	2.750362e-02	-1.043926e-02	-6.172565e-06
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9113816	0.0730814567	6.023963e-02	1.322804e-02	5.220342e-03	-9.310005e-04
911384	0.0226017652	-1.609558e-02	2.644659e-02	-2.709195e-02	-6.915033e-03
9113846	-0.1242840374	-5.698309e-02	3.319390e-03	5.876624e-03	6.378471e-03
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911673	-0.0827292480	-3.235318e-02	-1.469619e-02	7.414257e-03	5.606623e-03
911685	0.0448464007	4.121335e-02	-2.359053e-02	2.794497e-02	-3.572364e-03

911916	-0.0495987508	-2.268418e-02	2.227878e-02	8.961678e-03	-8.038788e-03
912193	-0.0128831723	-1.410240e-02	-2.422196e-02	2.001356e-02	-1.799201e-03
91227	-0.0381183878	2.857374e-02	1.498774e-03	-2.545113e-02	-5.760572e-03
912519	0.0403505601	-2.930731e-02	4.188617e-02	1.191858e-02	3.348884e-03
912558	-0.0154989113	8.817212e-03	9.226792e-03	1.934553e-03	1.020699e-02
912600	-0.0136577142	-6.945356e-02	7.542745e-03	-1.162578e-02	1.376873e-02
913063	-0.0107779990	3.093484e-03	1.413849e-01	-6.100949e-03	1.202071e-03
913102	0.0095431487	-7.376165e-03	2.000637e-02	-2.068873e-02	-5.432457e-03
913505	0.0040869238	1.517483e-02	1.015079e-01	-1.262707e-02	3.374017e-03
913512	0.0355692398	9.085520e-02	-4.393050e-03	4.668312e-03	-6.227434e-03
913535	0.0086380352	1.069920e-02	-3.724756e-02	-2.337908e-02	9.673922e-03
91376701	-0.0523983166	-2.155044e-02	-3.015589e-02	4.206849e-03	-4.615799e-03
91376702	0.0364243509	2.194271e-02	6.585056e-03	-5.260954e-03	1.175358e-02
914062	-0.0249186250	-9.840999e-02	-1.409311e-02	-4.124637e-03	-2.145734e-03
914101	-0.0546115161	-1.086523e-01	2.580461e-02	6.505626e-03	3.807495e-03
914102	-0.0900970424	-7.973081e-02	-1.382759e-02	2.391790e-02	2.493993e-03
914333	-0.0040977809	-6.976257e-02	-1.359450e-02	-7.869232e-03	4.008083e-03
914366	0.0965211814	-5.682683e-02	6.498587e-03	1.456788e-02	2.151391e-03
914580	-0.0422754385	2.085169e-02	-1.607462e-03	3.798926e-03	-1.110263e-02
914769	-0.0967977019	-1.485310e-01	1.576602e-02	3.329348e-03	-9.341349e-03
91485	-0.0641045051	1.841422e-01	-7.024287e-02	1.970595e-02	-1.498247e-02
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

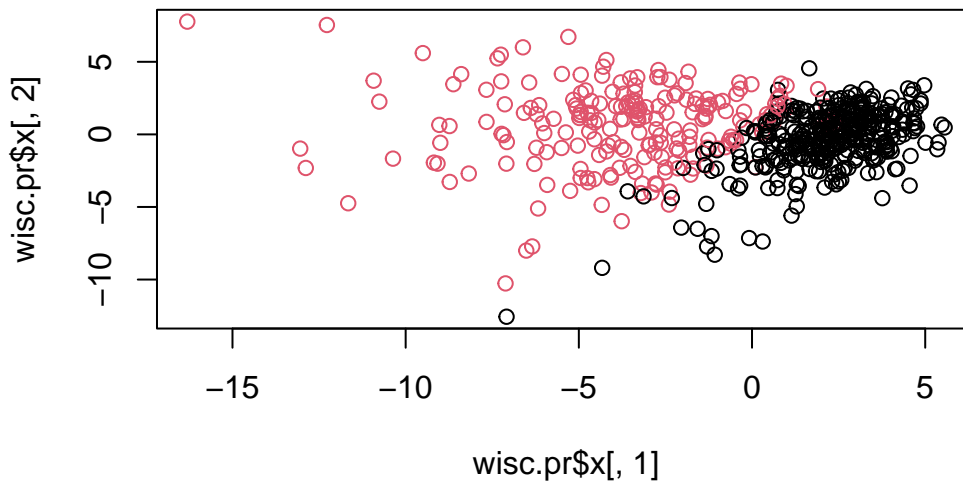
```

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

```

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

```



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

```
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					

- 0.4427

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

```
c.var <- summary(wisc.pr)$importance[3, ]
pcs_70 <- which(c.var >= 0.70)[1]
print(pcs_70)
```

PC3
3

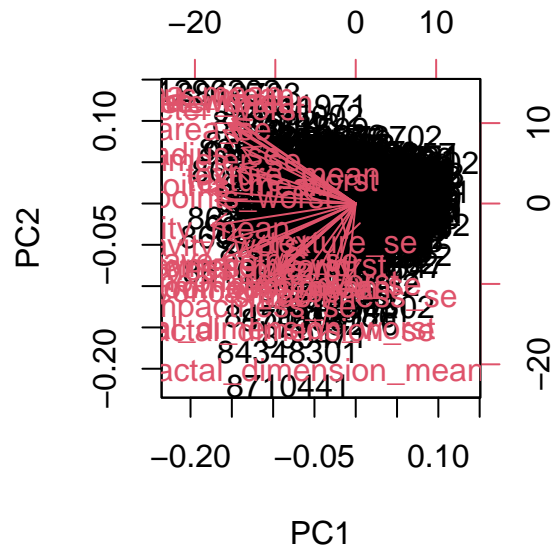
Q6. How many principal components (PCs) are required to describe at least 90% of the original variance in the data?

```
pcs_90 <- which(c.var >= 0.90)[1]
print(pcs_90)
```

PC7
7

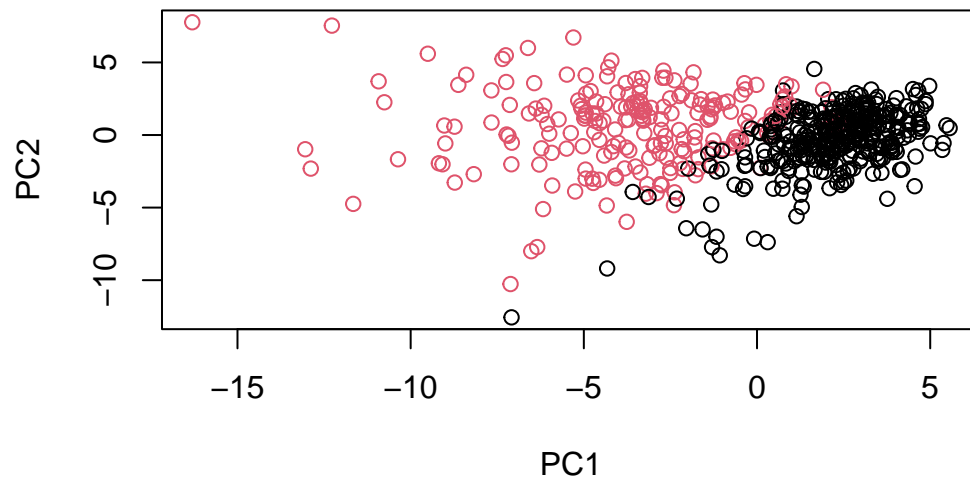
Q7. What stands out to you about this plot? Is it easy or difficult to understand? Why?

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



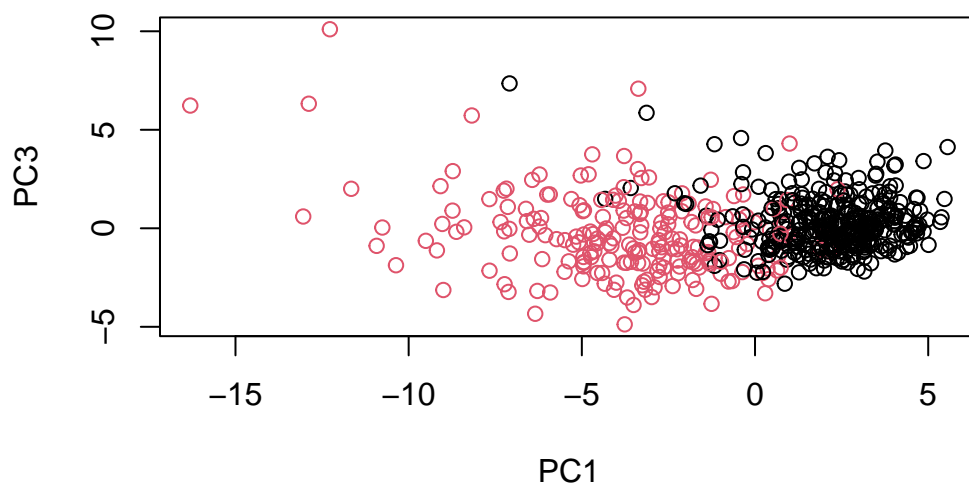
- What stands out is that there is too much data to comprehend or see what the data is showing. All of the columns are towards the left.

```
# 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")
```

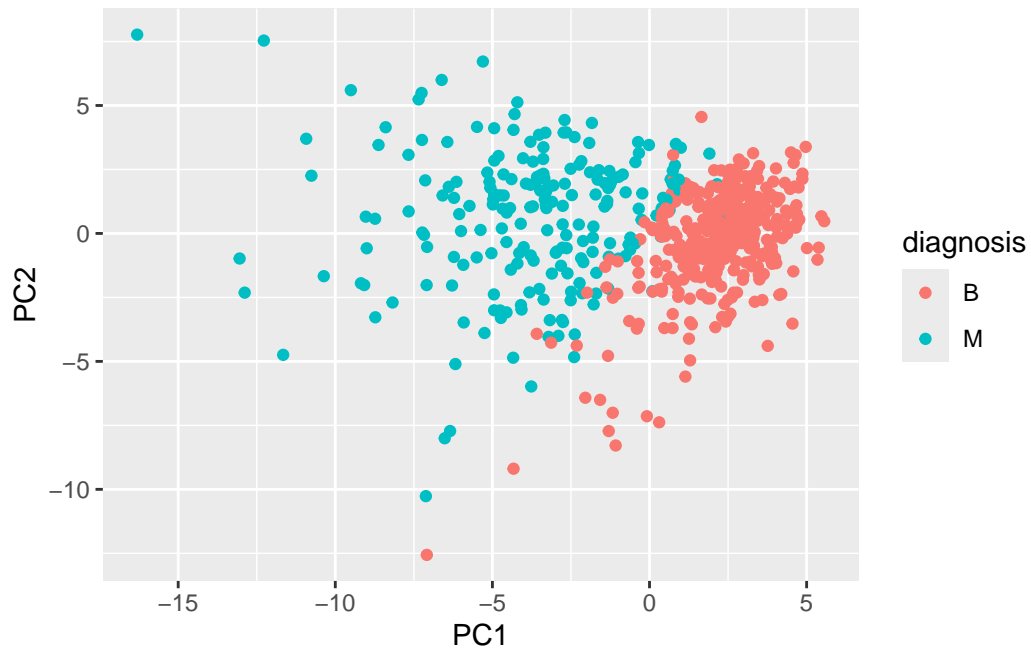


- Overall, the plots indicate that principal component 1 is capturing a separation of malignant (red) from benign (black) samples.

```
# 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()
```

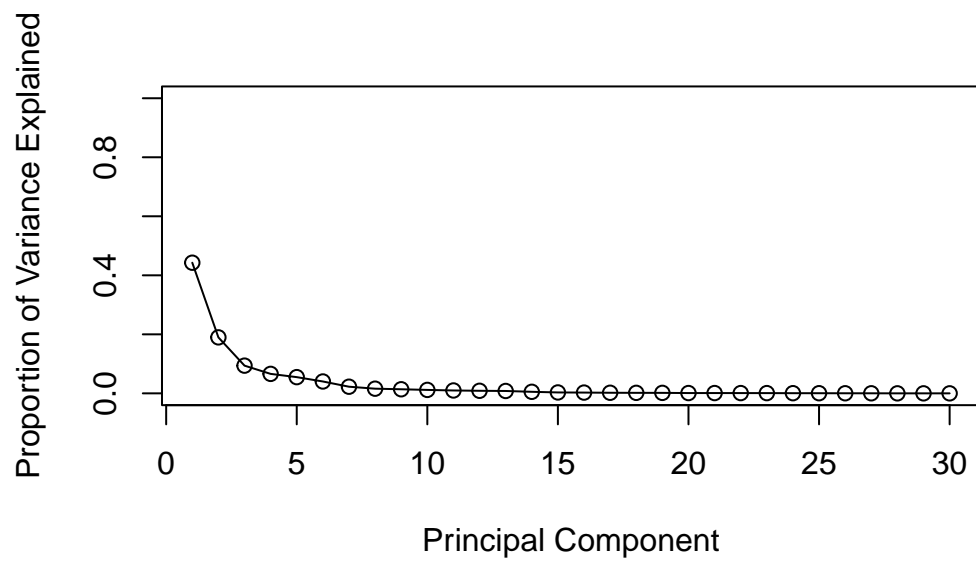


```
# Calculate variance of each component
pr.var <- wisc.pr$sdev^2
head(pr.var)
```

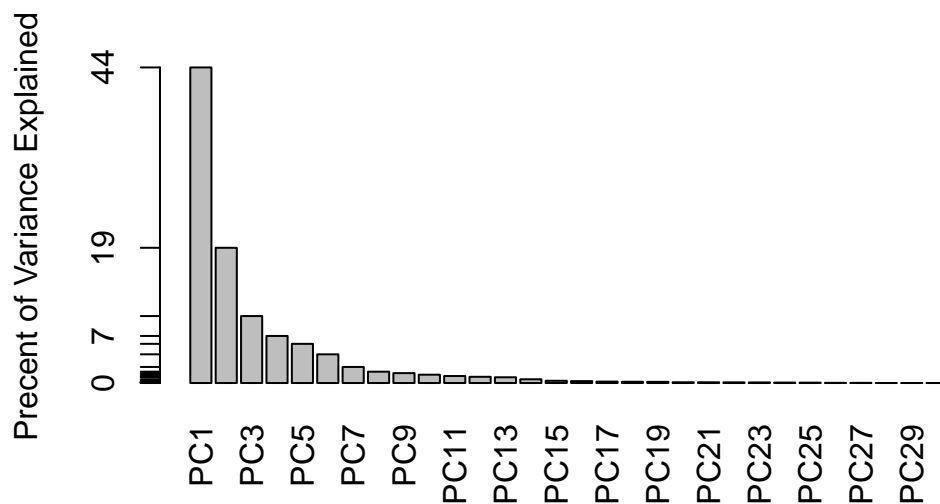
```
[1] 13.281608  5.691355  2.817949  1.980640  1.648731  1.207357
```

```
# Variance explained by each principal component: pve
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 )
```



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`?

```
concave.points_mean <- wisc.pr$rotation[,1]
concave.points_mean
```

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

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

```
pr.var <- wisc.pr$sdev^2
pve <- pr.var /sum(pr.var)
cumulative_pve <- cumsum(pve)

pc_80 <- which(cumulative_pve >= 0.80) [1]
print(pc_80)
```

[1] 5

Hierarchical Clustering

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

	radius_mean	texture_mean	perimeter_mean	area_mean
842302	1.096099529	-2.071512e+00	1.26881726	0.983509520
842517	1.828211974	-3.533215e-01	1.68447255	1.907030269
84300903	1.578499202	4.557859e-01	1.56512598	1.557513185
84348301	-0.768233323	2.535091e-01	-0.59216612	-0.763791736
84358402	1.748757910	-1.150804e+00	1.77501133	1.824623802
843786	-0.475955874	-8.346009e-01	-0.38680772	-0.505205927
844359	1.169878303	1.605082e-01	1.13712450	1.094332010
84458202	-0.118412587	3.581350e-01	-0.07280278	-0.218772414
844981	-0.319885392	5.883121e-01	-0.18391855	-0.383869508
84501001	-0.473118229	1.104467e+00	-0.32919213	-0.508615849
845636	0.537083438	9.184652e-01	0.44162208	0.406095932
84610002	0.468979955	-3.254213e-01	0.47866067	0.358357013
846226	1.430941655	1.281168e+00	1.66389556	1.330185001
846381	0.488843471	1.083542e+00	0.48277607	0.363187737
84667401	-0.112737297	7.719888e-01	0.06712078	-0.217635773
84799002	0.117111959	1.918224e+00	0.19593277	0.011113212

848406	0.156838990	1.953835e-01	0.11403633	0.084142391
84862001	0.568297535	3.232597e-01	0.66385362	0.408937534
849014	1.612550944	6.650378e-01	1.56512598	1.719484517
8510426	-0.166652555	-1.146154e+00	-0.18556471	-0.251735001
8510653	-0.297184231	-8.322759e-01	-0.26087651	-0.383301188
8510824	-1.311926130	-1.592558e+00	-1.30166089	-1.082619515
8511133	0.344123569	-1.169404e+00	0.43339128	0.140690277
851509	1.995633037	8.719647e-01	1.86143471	2.128675248
852552	0.715855082	4.860112e-01	0.74204620	0.709579058
852631	0.854899693	-6.718494e-01	0.98897014	0.732596037
852763	0.128462539	5.208865e-01	0.22391748	-0.028669220
852781	1.272033528	2.232838e-01	1.24000947	1.247778534
852973	0.332772989	1.390444e+00	0.42927589	0.220255141
853201	0.976918434	-9.857273e-01	0.94781615	0.853079974
853401	1.277708818	1.353244e+00	1.35112524	1.230728920
853612	-0.649052227	-1.370945e-01	-0.57776223	-0.608924411
85382601	0.820847952	1.090517e+00	0.85727737	0.694518566
854002	1.459318106	1.669447e+00	1.47870261	1.441007491
854039	0.568297535	-3.277463e-01	0.61858424	0.432806994
854253	0.741393888	5.348366e-01	0.74616160	0.609838817
854268	0.034820250	5.650619e-01	0.06835540	-0.062200127
854941	-0.311372457	-2.021951e-01	-0.38516156	-0.372503099
855133	0.244805990	1.374169e+00	0.14695952	0.124777304
855138	-0.183678426	3.558100e-01	-0.14687996	-0.271910377
855167	-0.195029006	5.325116e-01	-0.23824182	-0.261112289
855563	-0.901602644	4.790361e-01	-0.82592078	-0.806415771
855625	1.402565204	1.283494e+00	1.49516420	1.276194557
856106	-0.240431328	2.302588e-01	-0.19132627	-0.311692810
85638502	-0.271645425	5.859871e-01	-0.26951885	-0.350622761
857010	1.283384108	-3.928469e-01	1.30585585	1.196629693
85713702	-1.683090114	-5.695485e-01	-1.65681982	-1.287214880
85715	-0.271645425	-1.463946e-01	-0.24647261	-0.341813794
857155	-0.589461680	-1.083378e+00	-0.57323529	-0.584202471
857156	-0.180840780	6.999132e-01	-0.20819940	-0.266795493
857343	-0.671753388	5.371617e-01	-0.70986653	-0.645012760
857373	-0.138276103	-6.857996e-01	-0.19585321	-0.236106188
857374	-0.620675776	-2.440455e-01	-0.66912408	-0.617449218
857392	1.161365367	-1.370945e-01	1.16593229	1.074440794
857438	0.276020086	6.348126e-01	0.21774438	0.164559736
85759902	-0.739856872	-1.254694e-01	-0.76665904	-0.698719043
857637	1.442292236	-1.673198e-01	1.37993303	1.412591468
857793	0.165351926	5.348366e-01	0.14737106	0.005714168
857810	-0.305697166	4.731766e-03	-0.38516156	-0.362841651

858477	-1.563341489	-1.743684e+00	-1.54858483	-1.222994668
858970	-1.122938965	-1.025253e+00	-1.12840260	-0.974638627
858981	-1.569016779	3.930103e-01	-1.53541555	-1.230666995
858986	0.034820250	6.650378e-01	0.18317503	-0.026111778
859196	-1.405852184	-1.262405e+00	-1.34857644	-1.119560344
85922302	-0.410690036	1.057966e+00	-0.38186924	-0.442974836
859283	0.185215442	1.081217e+00	0.22350594	0.038108434
859464	-1.322992946	3.999854e-01	-1.31112631	-1.095406725
859465	-0.799447419	-5.804381e-02	-0.83003618	-0.741058918
859471	-1.446714274	-4.556225e-01	-1.36544958	-1.149113008
859487	-0.382313585	-6.509243e-01	-0.43619250	-0.433029228
859575	1.365675817	4.697360e-01	1.30174045	1.350076217
859711	-1.486725071	-1.081053e+00	-1.36544958	-1.167583423
859717	0.871925564	1.216068e+00	0.91489296	0.780050795
859983	-0.092873781	-8.136758e-01	-0.06333736	-0.201154480
8610175	-0.515682906	-6.439492e-01	-0.52590820	-0.522823861
8610404	0.551271664	8.378249e-02	0.49923767	0.462643818
8610629	-0.169490200	-1.941311e+00	-0.16704542	-0.271910377
8610637	1.113125400	-7.299750e-01	1.16181689	0.997717532
8610862	1.717543814	1.088192e+00	2.12893563	1.676860482
8610908	-0.359612424	-2.998460e-01	-0.36129224	-0.422231139
861103	-0.759720388	3.906853e-01	-0.74731666	-0.720031061
8611161	-0.223405457	-7.974006e-01	-0.22548408	-0.383301188
8611555	3.147716961	1.306744e+00	3.27301653	3.475594740
8611792	1.411078139	1.627597e+00	1.52808739	1.355759422
8612080	-0.603649905	-8.462260e-01	-0.61809314	-0.601252084
8612399	1.229468851	-1.789449e-01	1.19885548	1.193788091
86135501	0.100086088	5.046114e-01	0.09387087	-0.019007772
86135502	1.388376978	1.232343e+00	1.23589407	1.196629693
861597	-0.501494680	5.836621e-01	-0.50162735	-0.536463552
861598	0.145488410	-9.415519e-01	0.15642494	-0.008493844
861648	0.139813120	1.099817e+00	0.10704015	0.022195461
861799	0.352636505	8.068641e-01	0.33873711	0.208320412
861853	-0.243268973	-1.053153e+00	-0.29750356	-0.293222395
862009	-0.192191361	-2.300954e-01	-0.22095714	-0.283560947
862028	0.264669505	1.256329e-01	0.34285251	0.144100200
86208	1.740244975	8.696397e-01	1.66389556	1.730850926
86211	-0.552572293	-3.370464e-01	-0.58352379	-0.579087586
862261	-1.231620773	1.512081e-01	-1.22881833	-1.024082507
862485	-0.717155711	-1.499557e+00	-0.72550505	-0.688489275
862548	0.083060217	1.116827e-01	0.10333629	-0.035204906
862717	-0.146789039	1.323019e+00	-0.16128386	-0.205132723
862722	-2.027863997	-1.362381e+00	-1.98275941	-1.453164455

862965	-0.552572293	2.860593e-01	-0.60698156	-0.557491409
862980	-1.206365731	2.565696e-02	-1.15309499	-1.013284418
862989	-1.032134320	8.172307e-05	-1.01070219	-0.905871851
863030	-0.288671295	-8.671512e-01	-0.19585321	-0.354316844
863031	-0.705805130	-2.231203e-01	-0.69134724	-0.688773435
863270	-0.501494680	-1.742949e-01	-0.53331592	-0.534758590
86355	2.310611646	8.843253e-02	2.50343693	2.427043490
864018	-0.790934484	4.581109e-01	-0.80205147	-0.734239072
864033	-1.234458418	-5.346732e-01	-1.21276828	-1.036301397
86408	-0.424878262	3.418599e-01	-0.40409239	-0.495828639
86409	0.037657895	8.378249e-02	0.24120216	-0.071009095
864292	-1.026459030	2.093336e-01	-0.96008279	-0.911270896
864496	-1.532694922	-8.043757e-01	-1.48685385	-1.204808414
864685	-0.623513421	5.208865e-01	-0.63537781	-0.614607615
864726	-1.469131671	-8.206508e-01	-1.36750728	-1.164173501
864729	0.210754248	-6.090739e-01	0.27453689	0.078459187
864877	0.468979955	8.417395e-01	0.56508405	0.362903577
865128	1.084748949	1.674833e-01	0.91489296	0.929519076
865137	-0.771070968	-1.969211e+00	-0.76665904	-0.714916176
86517	1.286221753	-5.044479e-01	1.21120168	1.199471295
865423	2.872465383	2.116587e-01	3.05490039	3.143127271
865432	0.105761378	-1.952936e+00	0.09510549	-0.040319790
865468	-0.214892522	-6.741745e-01	-0.24153414	-0.288107511
86561	-0.078685556	-4.835227e-01	-0.14523380	-0.188083109
866083	-0.146789039	1.255593e+00	-0.17321851	-0.233832907
866203	1.382701688	-8.826909e-02	1.29350966	1.372809036
866458	0.276020086	-6.741745e-01	0.31322164	0.055726368
866674	1.606875653	1.355569e+00	1.58158758	1.526255560
866714	-0.549734648	-1.394931e+00	-0.53043514	-0.565732056
8670	0.378175311	4.425713e-02	0.40046809	0.267141579
86730502	0.576810470	5.232115e-01	0.58566104	0.440195160
867387	0.449116439	-1.246130e+00	0.41281429	0.303514089
867739	1.226631206	6.092373e-01	1.16181689	1.193788091
868202	-0.385151230	7.394385e-01	-0.42178861	-0.422231139
868223	-0.685941614	-6.090739e-01	-0.70986653	-0.657231650
868682	-0.765395678	-9.066766e-01	-0.77818215	-0.724861785
868826	0.233455409	-3.998219e-01	0.20087125	0.065956136
868871	-0.807960355	-1.371681e+00	-0.78065139	-0.767485819
868999	-1.245525234	-1.701834e+00	-1.26462230	-1.041132121
869104	0.562622244	-2.882209e-01	0.54039166	0.449288287
869218	-0.765395678	-4.602725e-01	-0.75348976	-0.729976669
869224	-0.348261843	-7.834505e-01	-0.33865755	-0.405465686
869254	-0.958355547	-1.004328e+00	-0.97572130	-0.851313087

869476	-0.632026357	-1.078728e+00	-0.57035451	-0.631088909
869691	-0.660402808	-6.299991e-01	-0.53413900	-0.633362190
86973701	0.233455409	-1.208194e-01	0.24161370	0.098350403
86973702	0.088735507	-9.555021e-01	0.08234776	-0.042024751
869931	-0.109899652	-3.207712e-01	-0.15840308	-0.198597038
871001501	-0.319885392	3.465099e-01	-0.34812297	-0.385006149
871001502	-1.676563530	3.279097e-01	-1.59261960	-1.281531676
8710441	-1.247511586	-9.183017e-01	-1.16009117	-1.007885374
87106	-0.844849742	-1.443757e+00	-0.86830939	-0.775726466
8711002	-0.277320715	-9.183017e-01	-0.27404579	-0.329594904
8711003	-0.532708777	-3.137962e-01	-0.56376987	-0.552944845
8711202	1.008132530	3.372098e-01	1.04658572	0.877517754
8711216	0.769770339	3.960709e-02	0.67619982	0.640243962
871122	-0.586624034	-1.522807e+00	-0.62262007	-0.586191592
871149	-0.915790870	-1.471657e+00	-0.95802509	-0.818634661
8711561	-0.674591034	2.070086e-01	-0.65307403	-0.668029738
8711803	1.436616945	-7.788004e-01	1.41285622	1.426799479
871201	1.550122751	-2.649707e-01	1.59393378	1.588770811
8712064	-0.507169971	6.813130e-01	-0.49874657	-0.541010116
8712289	2.594376160	6.394626e-01	2.47462914	2.930007098
8712291	0.239130699	1.093577e-01	0.14531336	0.100339524
87127	-0.944167321	-2.227289e+00	-0.95473277	-0.844777402
8712729	0.752744468	-1.138443e-01	0.71323841	0.657577736
8712766	0.948541983	1.253268e+00	0.99308554	0.936907242
8712853	0.239130699	-5.439733e-01	0.17494423	0.088120634
87139402	-0.512845261	-1.604183e+00	-0.53990056	-0.542146756
87163	-0.197866651	7.913245e-02	-0.25223417	-0.254292443
87164	0.378175311	-1.720434e+00	0.43339128	0.233042352
871641	-0.864713257	-1.064778e+00	-0.89547102	-0.801869207
871642	-0.983894353	-9.624771e-01	-1.00740987	-0.867510220
872113	-1.548301970	-1.125229e+00	-1.54529251	-1.215322342
872608	-1.198420325	-2.858959e-01	-1.12634490	-1.001633849
87281702	0.661939824	1.907335e-01	0.71323841	0.505836173
873357	-0.317047747	6.813130e-01	-0.40985395	-0.365114933
873586	-0.373800649	-1.448407e+00	-0.43948482	-0.415127134
873592	3.715245987	5.999372e-01	3.70924881	4.532670797
873593	1.975769521	1.692697e+00	2.08778165	1.864406234
873701	0.446278794	2.372339e-01	0.37989110	0.317437940
873843	-0.771070968	-1.015953e+00	-0.75883978	-0.718610259
873885	0.327097698	7.254884e-01	0.28606000	0.158308211
874158	-1.148477771	-9.717772e-01	-1.16091425	-0.958725654
874217	1.186904174	-1.649948e-01	1.09597051	1.097173612
874373	-0.685941614	-4.881728e-01	-0.71151269	-0.666608937

874662	-0.657565163	-4.416723e-01	-0.68723184	-0.642171158
874839	-0.518520551	-7.881005e-01	-0.54072364	-0.543283397
874858	0.026307314	8.905649e-01	0.09880935	-0.127841141
875093	-0.385151230	4.929862e-01	-0.40944241	-0.419105377
875099	-1.250632996	-2.486956e-01	-1.28561084	-1.042268762
875263	-0.507169971	1.760123e+00	-0.44524638	-0.504353446
87556202	0.207916603	9.114901e-01	0.34696791	0.046917401
875878	-0.345424198	-6.881246e-01	-0.38845388	-0.393530956
875938	-0.101386717	6.975881e-01	-0.05510657	-0.187514789
877159	1.121638336	5.929622e-01	1.04658572	1.048866373
877486	1.433779300	7.440886e-01	1.46224101	1.401225059
877500	0.091573152	2.163087e-01	0.10374783	-0.034636585
877501	-0.538384067	6.285730e-02	-0.55265829	-0.550955724
877989	0.968405498	7.056787e-03	0.95193155	0.843134366
878796	2.600051450	1.715947e+00	2.75447627	2.927165495
87880	-0.090036136	1.037041e+00	-0.01683336	-0.162224529
87930	-0.470280584	-1.603448e-01	-0.44771562	-0.491566235
879523	0.281695376	-6.067489e-01	0.28029845	0.175357825
879804	-1.206365731	-4.695726e-01	-1.19548360	-1.021525065
879830	0.818010306	2.256088e-01	0.72970001	0.708726577
8810158	-0.288671295	7.557137e-01	-0.20367247	-0.356590126
8810436	0.324260053	-1.483282e+00	0.25519451	0.200648086
881046502	1.831049619	6.627128e-01	1.75854973	1.804732586
8810528	-0.649052227	-8.129402e-02	-0.67735488	-0.644728600
8810703	3.967796404	-1.905700e-01	3.97263434	5.240229770
881094802	0.934353757	1.457870e+00	0.92723915	0.832904598
8810955	0.017794379	1.050991e+00	0.03707837	-0.125567859
8810987	-0.075847910	-5.486233e-01	-0.04152575	-0.215930812
8811523	-0.634864002	-2.184703e-01	-0.60286616	-0.632793870
8811779	-1.114426029	-4.207471e-01	-1.10782561	-0.948211726
8811842	1.609713298	5.278616e-01	1.55277979	1.634236448
88119002	1.533096880	3.064460e+00	1.48281801	1.614345231
8812816	-0.135438458	-1.425156e+00	-0.16828004	-0.244346835
8812818	-0.160977264	-1.253105e+00	-0.13906070	-0.265943013
8812844	-1.120101319	-4.091220e-01	-1.10494483	-0.971228704
8812877	0.460467020	2.232838e-01	0.43750668	0.302377448
8813129	-0.243268973	-5.276981e-01	-0.30532282	-0.308282887
88143502	0.060359056	-1.353081e+00	0.02226293	-0.038898989
88147101	-1.046322546	-8.904015e-01	-1.04321384	-0.924342266
88147102	0.247643635	-8.787763e-01	0.22556364	0.084142391
88147202	-0.427715907	1.088192e+00	-0.43701558	-0.450363002
881861	-0.368125359	7.068882e-01	-0.27610349	-0.431040106
881972	0.829360887	-4.874373e-02	0.88196977	0.682299676

88199202	-0.796609774	1.811273e+00	-0.83168234	-0.736512354
88203002	-0.824986226	3.376013e+00	-0.87160171	-0.761802615
88206102	1.811186103	1.981000e+00	1.74620354	1.887139053
882488	-1.294048966	-7.857755e-01	-1.30701091	-1.066422381
88249602	-0.027607943	4.557859e-01	-0.08967592	-0.146311556
88299702	2.577350289	1.785698e+00	2.53224473	2.884541461
883263	1.802673168	5.046114e-01	1.66801096	1.850198223
883270	0.026307314	1.990300e+00	0.02390909	-0.088058708
88330202	0.945704337	4.647799e+00	0.88196977	0.755044695
88350402	-0.138276103	-8.578512e-01	-0.18885703	-0.226160580
883539	-0.484468810	-9.880524e-01	-0.54977751	-0.506910888
883852	-0.802285065	-2.556706e-01	-0.74237818	-0.754414449
88411702	-0.107062007	1.041691e+00	-0.14111840	-0.184389026
884180	1.496207493	9.789157e-01	1.52808739	1.421116275
884437	-1.034971965	1.326079e-01	-1.03909844	-0.901325288
884448	-0.263132489	-4.323722e-01	-0.32260749	-0.321922578
884626	-0.351099488	-1.204279e+00	-0.28886122	-0.405465686
88466802	-0.986731998	1.378819e+00	-0.98600980	-0.874898386
884689	-0.739856872	-1.013628e+00	-0.74484742	-0.706391370
884948	1.933204844	9.928658e-01	1.93139649	2.015011156
88518501	-0.745532162	-1.952201e-01	-0.76912828	-0.703265607
885429	1.589849783	1.233079e-01	1.59393378	1.566037992
8860702	0.900302015	-5.137480e-01	0.86550817	0.776640872
886226	1.510395719	9.381808e-03	1.42108702	1.460898707
886452	-0.047471459	-5.207231e-01	-0.02218337	-0.149153158
88649001	1.538772170	2.204202e+00	1.71328034	1.568879595
886776	0.338448279	-4.695726e-01	0.46219908	0.165980537
887181	0.434928213	9.091651e-01	0.75027700	0.337044996
88725602	0.398038827	3.317887e+00	0.48277607	0.255775170
887549	1.754433200	1.806623e+00	1.68447255	1.799049381
888264	0.914490241	8.766148e-01	0.78320019	0.790564724
888570	0.897464370	6.603878e-01	0.92312375	0.832336278
889403	0.420739988	2.100692e-02	0.33050631	0.294705122
889719	0.869087919	6.464377e-01	0.80789259	0.776925033
88995002	1.873614296	2.750582e+00	1.79970372	2.171299283
8910251	-1.000920224	-7.896900e-02	-0.93374423	-0.876603348
8910499	-0.152464329	5.929622e-01	-0.19791091	-0.266795493
8910506	-0.356774779	-7.160249e-01	-0.39462698	-0.405465686
8910720	-0.969706127	2.558341e-01	-0.92469035	-0.880865751
8910721	0.046170830	-5.741986e-01	-0.06868738	-0.063336768
8910748	-0.805122710	-1.453057e+00	-0.81233996	-0.758392692
8910988	2.163054099	3.953354e-01	2.27708999	2.375894649
8910996	-1.244390176	-8.415760e-01	-1.25392227	-1.037153878

8911163	1.079073659	1.206768e+00	0.95604695	0.977542155
8911164	-0.634864002	-4.486474e-01	-0.64895863	-0.623132422
8911230	-0.793772129	-1.192654e+00	-0.83044772	-0.733954912
8911670	1.328786430	1.605082e-01	1.19062468	1.270511353
8911800	-0.152464329	-3.370464e-01	-0.23577258	-0.234685387
8911834	-0.078685556	-9.555021e-01	-0.12259911	-0.191777192
8912049	1.428104010	1.699672e+00	1.40874083	1.372809036
8912055	-0.677428679	-1.225205e+00	-0.72962045	-0.646717721
89122	1.496207493	-2.579956e-01	1.44989481	1.392700252
8912280	0.599511631	-1.208194e-01	0.69266142	0.426839629
8912284	-0.351099488	-8.346009e-01	-0.32466519	-0.392962636
8912521	-0.439066487	-2.068452e-01	-0.49956965	-0.471390859
8912909	-0.620675776	3.418599e-01	-0.58023147	-0.607787770
8913	-0.351099488	-1.434456e+00	-0.41479243	-0.394951757
8913049	-0.813635645	1.558582e-01	-0.75102052	-0.741058918
89143601	-0.782421549	-9.291913e-02	-0.81480920	-0.735659873
89143602	0.080222572	1.023827e-01	0.16712498	-0.011051286
8915	0.236293054	-4.409368e-02	0.20827896	0.092098878
891670	-0.334073618	-7.602003e-01	-0.36334994	-0.401203282
891703	-0.646214582	-4.253972e-01	-0.67612026	-0.631373069
891716	-0.399339456	-1.281005e+00	-0.41931937	-0.462581892
891923	-0.101386717	-1.399581e+00	-0.16087232	-0.205132723
891936	-0.912953225	-1.613483e+00	-0.93950579	-0.827443628
892189	-0.671753388	-2.672957e-01	-0.69834341	-0.635919632
892214	0.037657895	-2.603207e-01	-0.03082571	-0.061915967
892399	-1.026459030	8.835898e-01	-1.03374843	-0.911270896
892438	1.533096880	-9.059411e-02	1.54454899	1.597295618
892604	-0.473118229	1.395830e-01	-0.47487725	-0.521687220
89263202	1.692005007	1.062616e+00	1.75854973	1.682543687
892657	-1.032134320	-1.580197e-01	-1.03333689	-0.910986735
89296	-0.756882742	-2.626457e-01	-0.75637054	-0.715484497
893061	-0.717155711	1.209093e+00	-0.73003199	-0.675417904
89344	-0.263132489	-8.067007e-01	-0.32507673	-0.334141468
89346	-1.454943445	-1.136854e+00	-1.46545377	-1.161047738
893526	-0.178003135	-1.529782e+00	-0.25840727	-0.252019161
893548	-0.305697166	-1.267055e+00	-0.38104616	-0.353180203
893783	-0.688779259	-4.176866e-02	-0.72591659	-0.671155501
89382601	0.136975474	-8.369260e-01	0.02925911	0.028446986
89382602	-0.387988875	-1.376331e+00	-0.39833083	-0.428482664
893988	-0.734181581	-1.992462e+00	-0.75060898	-0.698434883
894047	-1.569300544	-1.603448e-01	-1.55887333	-1.232371956
894089	-0.464605294	-5.672235e-01	-0.52590820	-0.492418716
894090	-0.552572293	-1.211254e+00	-0.60574694	-0.549819083

894326	1.161365367	-9.756917e-02	1.10008591	1.057391180
894329	-1.443025336	-9.059411e-02	-1.31277247	-1.166162622
894335	-0.481631164	-5.323482e-01	-0.55018905	-0.504637606
894604	-1.100237803	-7.229999e-01	-1.04732924	-0.939686919
894618	1.711868523	8.610751e-02	1.61039537	1.759266949
894855	-0.359612424	-1.387956e+00	-0.37651922	-0.426493543
895100	1.762946136	5.162365e-01	1.80793452	1.730850926
89511501	-0.546897003	-9.485270e-01	-0.57446991	-0.559764691
89511502	-0.413527681	-4.625975e-01	-0.44113098	-0.468833417
89524	-0.004906782	-1.490257e+00	-0.07979896	-0.109086565
895299	-0.595136970	-3.161212e-01	-0.65348557	-0.593579758
8953902	0.608024567	3.302348e-01	0.61446884	0.451277409
895633	0.605186921	6.022623e-01	0.63916123	0.488502399
896839	0.539921083	-8.787763e-01	0.56919945	0.393024562
896864	-0.325560682	1.403185e-02	-0.30655744	-0.400350802
897132	-0.824986226	1.326079e-01	-0.82427462	-0.760381813
897137	-0.816473290	-1.048503e+00	-0.84732086	-0.752709487
897374	-0.518520551	-6.269385e-02	-0.57981993	-0.541294276
89742801	0.832198532	3.976604e-01	0.81612338	0.749361490
897604	-0.322723037	-1.176379e+00	-0.32466519	-0.399498321
897630	1.317435850	4.976363e-01	1.27293266	1.242095330
897880	-1.156990706	-4.091220e-01	-1.13416416	-0.977764390
89812	2.662479643	1.157942e+00	2.59809111	3.103344838
89813	0.083060217	-6.392991e-01	0.08975548	-0.038898989
898143	-1.282982150	-5.695485e-01	-1.24816071	-1.063864939
89827	-0.870388548	-1.006653e+00	-0.84279392	-0.798459284
898431	1.575661557	5.557618e-01	1.56101059	1.531938765
89864002	-0.685941614	-8.927265e-01	-0.69710880	-0.666608937
898677	-1.097400158	-1.064778e+00	-1.06049852	-0.947075085
898678	-0.586624034	-9.059411e-02	-0.63002779	-0.595568880
89869	0.179540151	-1.057803e+00	0.11938635	0.039245075
898690	-0.754045097	-7.578752e-01	-0.77982831	-0.716621138
899147	-0.617838131	-1.006653e+00	-0.60657002	-0.648422683
899187	-0.700129840	-5.160730e-01	-0.75184360	-0.664619816
899667	0.460467020	-1.619343e-02	0.62269963	0.294705122
899987	3.292436862	-4.253972e-01	3.38413230	3.850686244
9010018	0.270344796	1.499720e+00	0.24819833	0.175357825
901011	-0.847687387	-1.213579e+00	-0.85308241	-0.768054140
9010258	-0.444741778	-5.106875e-02	-0.41355781	-0.480483986
9010259	-0.305697166	-1.626698e-01	-0.28309967	-0.406034006
901028	-0.073010265	-7.160249e-01	-0.14194148	-0.173875098
9010333	-1.489562716	-8.834264e-01	-1.44981526	-1.176108230
901034301	-1.331222117	-2.254453e-01	-1.32306097	-1.069263984

901034302	-0.450417068	-2.835709e-01	-0.51644278	-0.463150212
901041	-0.234756038	5.301866e-01	-0.27692657	-0.309135368
9010598	-0.387988875	-1.045442e-01	-0.41561551	-0.449794682
9010872	0.673290405	-2.324204e-01	0.60212264	0.520612505
9010877	-0.206379587	-5.439733e-01	-0.26704961	-0.291233273
901088	1.791322587	5.790120e-01	1.72151114	1.813257393
9011494	1.723219104	1.753148e+00	1.71739574	1.645602857
9011495	-0.544059357	-2.951960e-01	-0.56212371	-0.558343890
9011971	2.151703519	-4.742226e-01	2.01370446	2.532182775
9012000	2.236832873	6.069123e-01	2.27297460	2.350320228
9012315	0.630725728	9.300903e-01	0.70089221	0.527148190
9012568	0.301558892	-1.413531e+00	0.23379444	0.161718134
9012795	2.055223584	-9.741022e-01	2.03016606	2.077526407
901288	1.848075490	-4.509724e-01	1.76266513	1.932604689
9013005	-0.124087878	-7.485752e-01	-0.16992620	-0.215362492
901303	0.579648115	-7.485752e-01	0.58977644	0.379669031
901315	-1.009433159	2.163087e-01	-0.89794026	-0.899620326
9013579	-0.189353716	2.074001e+00	-0.25017647	-0.263669731
9013594	-0.132600813	-9.624771e-01	-0.15222998	-0.211100088
9013838	-0.864713257	-1.068693e-01	-0.76830520	-0.833410993
901549	-0.810798000	-1.471657e+00	-0.77406675	-0.763223416
901836	-0.876063838	-1.013628e+00	-0.87654019	-0.801869207
90250	-0.589461680	7.975640e-01	-0.54401596	-0.588464874
90251	-0.492981745	-4.207471e-01	-0.46623492	-0.545556679
902727	-0.240431328	-1.294955e+00	-0.25429187	-0.321354258
90291	0.134137829	9.300903e-01	0.08234776	0.027878666
902975	-0.544059357	-1.208929e+00	-0.54278134	-0.548114121
902976	-0.070172620	-7.276500e-01	-0.14811458	-0.165634451
903011	-0.810798000	-8.811014e-01	-0.76501288	-0.747026283
90312	1.538772170	9.114901e-01	1.51985660	1.475106719
90317302	-1.097400158	-1.643708e+00	-1.07901781	-0.947075085
903483	-1.530424806	-5.695485e-01	-1.51031162	-1.195146966
903507	0.386688246	1.581832e-01	0.42927589	0.255206850
903516	2.123327068	6.952631e-01	2.15774343	2.137200055
903554	-0.575273454	-3.649466e-01	-0.57200067	-0.593011438
903811	-0.019095008	-4.904978e-01	-0.09132208	-0.130114423
90401601	-0.175165490	-9.291913e-02	-0.15922616	-0.275036140
90401602	-0.376638295	-4.253972e-01	-0.36705380	-0.416547935
904302	-0.870388548	-1.036878e+00	-0.89135562	-0.786240394
904357	-0.660402808	-4.718976e-01	-0.68764338	-0.633646351
90439701	1.073398368	4.023104e-01	1.33466365	0.963618304
904647	-0.623513421	-1.948286e+00	-0.65142787	-0.602957046
904689	-0.331235972	-2.324204e-01	-0.32054980	-0.368524856

9047	-0.336911263	-7.253249e-01	-0.36170378	-0.418537056
904969	-0.507169971	-1.008978e+00	-0.56294679	-0.527938745
904971	-0.904440289	-1.626698e-01	-0.88806330	-0.809541533
905189	0.571135180	-1.029903e+00	0.50746846	0.412347457
905190	-0.362450069	4.836862e-01	-0.38433848	-0.398930000
90524101	1.096099529	3.186096e-01	1.06304732	0.957082619
905501	-0.527033487	-3.184462e-01	-0.55800831	-0.536463552
905502	-0.785259194	-3.998219e-01	-0.80163993	-0.724861785
905520	-0.876063838	-5.718735e-01	-0.86625169	-0.800448406
905539	-1.342288933	5.557618e-01	-1.32594175	-1.097111686
905557	0.244805990	6.557377e-01	0.22885596	0.110285132
905680	0.284533021	2.446004e+00	0.19510969	0.183598472
905686	-0.634864002	4.371857e-01	-0.64113937	-0.628247306
905978	-1.340018817	5.604119e-01	-1.33211485	-1.090291841
90602302	0.389525891	4.162605e-01	0.44985288	0.421156424
906024	-0.405014746	-1.655333e+00	-0.45635796	-0.454341245
906290	-0.842012096	4.929862e-01	-0.86501707	-0.780273029
906539	-0.725668646	-5.804381e-02	-0.73126661	-0.696729922
906564	0.159676636	-1.234505e+00	0.25725221	0.003440886
906616	-0.714318065	-7.602003e-01	-0.67941258	-0.700992325
906878	-0.132600813	-3.711862e-02	-0.10325673	-0.226160580
907145	-1.244390176	-3.944364e-02	-1.23622605	-1.037722198
907367	-1.162665996	4.627610e-01	-1.18437203	-0.987709998
907409	-1.034971965	-1.002002e+00	-1.00740987	-0.912975857
90745	-0.944167321	6.255125e-01	-0.95390969	-0.838241716
90769601	-0.850525032	-6.206990e-01	-0.88477099	-0.777999748
90769602	-0.399339456	-3.765717e-01	-0.45224256	-0.436439151
907914	0.219267183	7.533886e-01	0.41692969	0.085563192
907915	-0.490144100	-3.742467e-01	-0.43207711	-0.531632828
908194	1.717543814	5.820726e-02	1.72151114	1.691068494
908445	1.331624075	6.231874e-01	1.30585585	1.293244171
908469	0.207916603	-5.462983e-01	0.12020943	0.053453086
908489	-0.041796169	7.680743e-02	-0.03494111	-0.157393805
908916	-0.356774779	5.820726e-02	-0.38269232	-0.413990493
909220	-0.024770298	-7.695003e-01	-0.09008746	-0.124147058
909231	-0.078685556	7.215739e-02	-0.13535684	-0.177000861
909410	-0.030445588	-8.439010e-01	-0.09790671	-0.137502588
909411	-0.895927354	-4.858477e-01	-0.83291696	-0.805279130
909445	0.891789080	1.425320e+00	0.84081578	0.778345834
90944601	-0.098549072	-8.136758e-01	-0.14811458	-0.196039596
909777	-1.009433159	-2.254453e-01	-1.03498305	-0.892232160
9110127	1.107450110	-5.672235e-01	1.05070112	0.952251895
9110720	-0.606487550	1.302094e+00	-0.59093150	-0.606935289

9110732	1.027996046	2.032150e+00	1.04247032	0.928382435
9110944	0.190890732	-3.788968e-01	0.16095188	0.056578849
9111150	0.114274313	1.170683e-02	0.09387087	0.013670654
911157302	1.978607166	2.860593e-01	1.89847330	2.071843202
9111596	-0.640539292	5.232115e-01	-0.62303161	-0.633362190
9111805	1.550122751	1.327669e+00	1.47047181	1.523413958
9111843	-0.603649905	2.078651e+00	-0.62550085	-0.603525366
911201	0.114274313	-1.234505e+00	0.07782082	-0.030374182
911202	-0.427715907	-4.974728e-01	-0.46705800	-0.460308610
9112085	-0.212054877	2.657581e+00	-0.23165718	-0.277593582
9112366	-0.708642775	2.325103e+00	-0.70369343	-0.681385269
9112367	-0.260294844	1.385794e+00	-0.32384211	-0.332436506
9112594	-0.319885392	1.357894e+00	-0.38516156	-0.382732867
9112712	-1.240701238	2.071676e+00	-1.24651455	-1.034312275
911296201	0.837873822	1.827549e+00	0.79143099	0.784313199
911296202	3.771998890	1.622947e+00	3.90678796	5.245912975
9113156	0.077384927	1.790348e+00	0.01156290	-0.024975137
911320501	-0.717155711	-2.161453e-01	-0.74443588	-0.688205115
911320502	-0.271645425	-2.486956e-01	-0.31643440	-0.334141468
9113239	-0.251781909	1.953835e-01	-0.20984556	-0.318228495
9113455	-0.280158360	3.372098e-01	-0.24647261	-0.335278109
9113514	-1.265388750	-2.765958e-01	-1.27203002	-1.047383646
9113538	0.985431369	9.393903e-01	1.11243210	0.925256673
911366	-0.711480420	-2.579956e-01	-0.64155091	-0.699287364
9113778	-1.265672515	-1.859200e-01	-1.25433381	-1.039427160
9113816	-0.592299325	2.057726e+00	-0.62220853	-0.582497509
911384	0.224942474	-1.013628e+00	0.18440965	0.090962237
9113846	-0.527033487	2.483205e+00	-0.59875076	-0.538452673
911391	-0.921466160	-8.532011e-01	-0.88724022	-0.841083319
911408	-0.368125359	-8.276259e-01	-0.37363844	-0.420526178
911654	0.020632024	2.883844e-01	0.01814753	-0.103687521
911673	-0.064497330	-6.206990e-01	-0.12342219	-0.157677965
911685	-0.748369807	-1.092678e+00	-0.73990894	-0.710369613
911916	0.602349276	5.123219e-02	0.73381540	0.457244774
912193	-0.558247583	-2.928710e-01	-0.56294679	-0.567152857
91227	-0.064497330	-1.154338e-02	-0.13329914	-0.147732357
912519	-0.186516071	-1.215904e+00	-0.19132627	-0.308567047
912558	-0.121250233	-3.835468e-01	-0.17321851	-0.238095310
912600	0.454791729	-1.862260e+00	0.44573748	0.262310856
913063	-0.475955874	-6.695244e-01	-0.37528460	-0.506342567
913102	0.145488410	-5.672235e-01	0.09222472	0.031572749
913505	1.507558074	-1.091943e-01	1.48693340	1.455215502
913512	-0.694454549	-7.253249e-01	-0.67817796	-0.666040617

913535	0.727205662	2.116587e-01	0.62269963	0.576023750
91376701	-0.532708777	7.324634e-01	-0.56747373	-0.535326911
91376702	1.056372498	-1.408881e+00	0.93135455	0.958219260
914062	1.101774820	2.953594e-01	1.08773971	1.000559134
914101	-0.473118229	-1.501882e+00	-0.54072364	-0.504637606
914102	-0.274483070	2.907094e-01	-0.32548827	-0.330163225
914333	0.210754248	2.139837e-01	0.17082883	0.073912623
914366	-0.419202972	-2.603207e-01	-0.38186924	-0.481052307
914580	-0.470280584	-4.602725e-01	-0.47405417	-0.496681120
914769	1.237981786	-4.114471e-01	1.20708628	1.173896874
91485	1.833887264	4.534609e-01	1.88612710	1.889980655
914862	0.258994215	-5.927987e-01	0.27824075	0.098066242
91504	-0.087198491	1.209093e+00	0.01485522	-0.167623573
91505	-0.450417068	-6.904496e-01	-0.44113098	-0.507479208
915143	2.543298547	1.256329e-01	2.47462914	2.918640689
915186	-1.378894556	-1.492582e+00	-1.25433381	-1.154227893
915276	-1.263118634	-1.429806e+00	-1.14609882	-1.086597758
91544001	-0.541221712	1.744583e-01	-0.51438508	-0.573404382
91544002	-0.870388548	-5.044479e-01	-0.85267087	-0.819487141
915452	0.616537502	-8.346009e-01	0.52393006	0.468611183
915460	0.378175311	1.083542e+00	0.48689147	0.217129379
91550	-0.677428679	-1.069428e+00	-0.64443169	-0.650411804
915664	0.193728377	-1.067103e+00	0.11074401	0.073344302
915691	-0.206379587	2.860593e-01	-0.13700300	-0.279014383
915940	0.128462539	-1.308905e+00	0.09551703	0.011113212
91594602	0.261831860	-5.106875e-02	0.21774438	0.133586271
916221	-0.790934484	-1.580197e-01	-0.79052835	-0.749299564
916799	1.186904174	3.000095e-01	1.18650928	1.128431238
916838	1.635252105	2.256088e-01	1.58570298	1.588770811
917062	-0.353937134	-2.486956e-01	-0.30943822	-0.459740290
917080	-0.390826520	-6.020988e-01	-0.38927696	-0.457751168
917092	-1.371232914	-1.253105e+00	-1.31729941	-1.128369312
91762702	2.980295898	5.371617e-01	3.02609260	3.370455455
91789	-0.813635645	1.256329e-01	-0.85061317	-0.758108532
917896	-0.118412587	-1.417446e-01	-0.13329914	-0.238379470
917897	-1.214594902	-8.392510e-01	-1.19219128	-1.027776590
91805	-1.576678421	-1.439106e+00	-1.54076557	-1.232087796
91813701	-0.189353716	-1.254694e-01	-0.18638779	-0.294927356
91813702	-0.507169971	-1.632083e+00	-0.53619670	-0.529643706
918192	-0.053146749	-1.422831e+00	-0.06827584	-0.172454297
918465	-0.583786389	-1.360056e+00	-0.58187763	-0.595853040
91858	-0.674591034	-4.021470e-01	-0.66171636	-0.659220771
91903901	-0.697292195	1.698083e-01	-0.68970108	-0.678259507

91903902	-0.126925523	-6.881246e-01	-0.17321851	-0.225592260
91930402	1.799835522	3.209347e-01	1.75854973	1.830307006
919537	-0.898764999	-3.881968e-01	-0.87160171	-0.822044583
919555	1.822536683	3.651101e-01	1.88612710	1.855881427
91979701	0.040495540	7.580387e-01	0.07411696	-0.071293255
919812	-0.691616904	1.197468e+00	-0.64196245	-0.706107209
921092	-1.815608141	1.441595e+00	-1.81032420	-1.352855894
921362	-1.826391193	1.429970e+00	-1.79550876	-1.376725353
921385	-0.734181581	-1.127554e+00	-0.71274731	-0.716052817
921386	0.097248443	1.325344e+00	0.15807110	0.004293366
921644	0.173864861	1.425320e+00	0.11239017	0.038960915
922296	-0.260294844	2.039125e+00	-0.29174200	-0.331015705
922297	-0.073010265	3.279097e-01	-0.09049900	-0.199165358
922576	-0.143951394	9.161401e-01	-0.19667629	-0.232127945
922577	-1.080374288	-6.834746e-01	-1.09712557	-0.937697797
922840	-1.097400158	-6.299991e-01	-1.07490241	-0.949348367
923169	-1.261132283	1.170683e-02	-1.27244156	-1.049088607
923465	-0.938492031	1.143992e+00	-0.94979429	-0.833410993
923748	-0.927141450	5.092614e-01	-0.96543280	-0.836536755
923780	-0.850525032	7.324634e-01	-0.84279392	-0.785672074
924084	-0.385151230	2.357653e+00	-0.43701558	-0.417684576
924342	-1.360449862	6.162124e-01	-1.35639570	-1.110751377
924632	-0.353937134	2.239077e+00	-0.38968850	-0.399498321
924934	-1.088887223	1.934499e+00	-1.08231013	-0.947643405
924964	-1.125776610	6.983236e-02	-1.12099488	-0.975206947
925236	-1.334911056	1.997275e+00	-1.34610720	-1.090007681
925277	0.131300184	7.882640e-01	0.18194041	0.006282488
925291	-0.742694517	1.078892e+00	-0.71809733	-0.714347856
925292	-0.021932653	1.827549e+00	-0.02424107	-0.154836363
925311	-0.830661516	2.343703e+00	-0.87654019	-0.764075896
925622	0.310071828	2.634331e+00	0.47042987	0.176210306
926125	1.927529553	1.348594e+00	2.10012784	1.966703917
926424	2.109138842	7.208383e-01	2.05897385	2.341795421
926682	1.703355588	2.083301e+00	1.61451077	1.722326119
926954	0.701666856	2.043775e+00	0.67208442	0.577444551
927241	1.836724909	2.334403e+00	1.98078127	1.733692528
92751	-1.806811442	1.220718e+00	-1.81279344	-1.346604368
	smoothness_mean	compactness_mean	concavity_mean	concave.points_mean
842302	1.567087457	3.280628064	2.650541786	2.530248864
842517	-0.826235447	-0.486643478	-0.023824892	0.547662271
84300903	0.941382123	1.051999895	1.362279789	2.035439783
84348301	3.280666839	3.399917422	1.914212875	1.450431130
84358402	0.280125349	0.538866307	1.369806149	1.427236955

843786	2.235454519	1.243241565	0.865540012	0.823930674
844359	-0.123027974	0.088217620	0.299808599	0.646366374
84458202	1.602638897	1.139100062	0.060972100	0.281702390
844981	2.199903080	1.682529360	1.218024551	1.149679986
84501001	1.581308033	2.561104951	1.737343408	0.940932405
845636	-1.016791162	-0.712914562	-0.700068361	-0.404329784
84610002	0.052596137	0.470700959	0.134730431	0.441742202
846226	0.073927000	2.678500827	1.476429586	1.620521752
846381	-0.878140548	-0.078408785	0.132723402	0.121662578
84667401	1.190242199	2.366076318	1.555456369	0.807437038
84799002	1.247124502	1.044425968	0.942058008	0.637088704
848406	0.164227657	-0.612370674	-0.186268834	0.094602706
84862001	1.467543427	1.852942729	1.046172658	1.388579995
849014	0.138630620	-0.031071738	0.741355068	1.187048380
8510426	0.101657123	-0.436466208	-0.277964990	-0.028584138
8510653	0.792066077	0.429044358	-0.540885842	-0.459222666
8510824	0.429441395	-0.746429191	-0.743094054	-0.725697973
8511133	0.777845502	2.066906181	1.491482307	1.253538350
851509	-0.147913982	-0.040539147	0.262176798	0.963868867
852552	1.119139320	0.783125469	0.799057163	1.102518495
852631	1.581308033	2.333887126	1.682150100	2.349849720
852763	0.642750032	1.561346520	0.673617825	1.002783540
852781	-0.139381636	0.042774055	0.755153395	0.731669398
852973	0.841838093	1.237561119	0.997251316	0.994536722
853201	0.150007081	0.215080906	0.124820723	0.788881698
853401	0.713852911	1.597322676	1.795045504	1.945240211
853612	1.033815866	0.894840900	0.413958397	0.074758800
85382601	1.659521200	0.856971262	1.917976055	1.839577855
854002	-0.167111759	1.279217721	0.964637089	0.696104995
854039	0.543206001	0.976260620	0.584555896	0.737081372
854253	-0.018506742	0.554014162	0.577029535	0.290206921
854268	0.132942390	0.103365475	0.540652128	0.181967434
854941	-0.464321793	-1.262592351	-0.792517153	-0.507415009
855133	-0.177066162	-1.004132074	-0.813089204	-0.513600122
855138	0.372559092	0.400642130	0.219527423	0.140991057
855167	-1.048076429	-0.833718706	-0.723776396	-0.737295061
855563	1.872829837	0.330583300	0.195693949	0.200265062
855625	-0.394640972	2.171047684	1.529114108	1.306369528
856106	0.550316289	0.743362349	0.121308422	0.326286750
85638502	0.055440252	0.006797899	-0.077889246	0.092798715
857010	0.962712987	1.216732819	1.362279789	1.339614513
85713702	-0.736645819	-0.850381346	-0.914695068	-1.108221473
85715	1.382219972	0.355198565	0.423993544	0.630903590

857155	0.479213410	-0.254123903	-0.286996622	-0.552257082
857156	-0.628569443	-0.518075277	-0.517930443	-0.388609287
857343	-0.710337754	-1.035374525	-0.906039753	-0.973360227
857373	-1.387237161	-0.828416956	-0.880951886	-0.816670684
857374	-0.977684579	-1.076084386	-0.866526362	-0.913055370
857392	1.311117093	0.836142961	1.108892327	1.471048175
857438	-0.412416691	-0.634903109	-0.454959895	-0.401494940
85759902	-0.079655218	-0.939374994	-0.733058907	-0.673639935
857637	0.635639744	0.423363912	0.545669701	1.057160996
857793	1.232903927	0.608925136	0.508037900	0.832692918
857810	-1.120601365	-1.258237342	-1.105212334	-1.153321259
858477	0.082459346	-0.977433980	-0.855362261	-1.059719874
858970	1.211573063	-0.449341885	-0.977916494	-0.928260441
858981	1.986594443	-0.278549819	-0.737574723	-1.022093767
858986	0.607198592	1.826433983	1.564237123	0.969280842
859196	-1.361640125	-0.318691635	-0.362761982	-0.698895815
85922302	1.126249608	0.413896503	0.301062993	0.510551590
859283	1.481764003	0.824782070	0.475423672	1.066180953
859464	0.571647153	-0.503874163	-0.841438494	-0.873109845
859465	-1.064430091	-1.085551795	-0.648638233	-0.686010162
859471	0.728073486	0.699812266	2.812358532	-0.133215642
859487	0.138630620	-0.984629211	-0.655662835	-0.522620080
859575	-0.445835045	-0.027284774	0.240852111	0.788366272
859711	0.104501238	0.923243128	-0.034361796	-0.520558375
859717	0.763624926	1.489394209	1.008540857	0.786562280
859983	0.308566501	0.447979177	-0.136845735	0.045637224
8610175	-0.329937352	-0.682618852	-0.690911289	-0.675186213
8610404	-0.332781467	-0.380608493	0.111524153	0.449989020
8610629	2.327888262	0.006797899	-0.251246411	0.428856549
8610637	0.720963198	2.087734482	0.998505710	1.522590788
8610862	2.292336822	4.564408776	3.595099999	2.873007238
8610908	0.211866585	-0.168159826	-0.626059152	-0.664104551
861103	0.984043850	-0.202999892	-0.538000737	-0.685237022
8611161	0.813396941	0.930817055	0.352493121	0.539930879
8611555	0.706742623	3.070451576	3.074526748	3.494095720
8611792	1.787506382	1.415548416	1.315867234	2.525094603
8612080	0.061839511	-0.618997861	-0.593194045	-0.780590856
8612399	0.169204858	0.018158791	0.560722422	1.005876097
86135501	-0.136537521	-0.092231203	0.396396889	0.011876813
86135502	-0.431614469	0.307861518	0.727556741	0.870834452
861597	-0.614348868	-0.187283993	-0.359375120	-0.295574871
861598	1.197352487	0.559694607	0.136235703	0.559774785
861648	-0.470721052	-0.346147122	-0.724779910	-0.498652765

861799	-0.310028546	-0.014030401	0.293536632	0.667756558
861853	-1.621876662	-1.018522537	-0.704835056	-0.578286101
862009	0.415220819	-0.429649673	-0.615396808	-0.544267977
862028	0.536095713	0.964899729	1.018576004	1.011030358
86208	-0.396774058	0.510464079	0.723793560	0.977012234
86211	0.578757441	-0.639447465	-0.801548785	-0.502776174
862261	0.429441395	-0.971942883	-1.028230212	-1.056163434
862485	-0.464321793	-0.550832513	-0.587549275	-0.397371531
862548	0.082459346	0.184785196	0.063731766	0.244076283
862717	-0.105252255	-0.364135200	-0.031978449	-0.103836352
862722	1.467543427	-0.542690541	-1.113892736	-1.260710292
862965	-1.154019719	-1.211089644	-0.814970794	-0.804558170
862980	0.294345925	-0.139568250	-0.341939052	-0.480097424
862989	0.250973169	-0.351448872	-0.738201920	-0.951196903
863030	3.088689066	1.366317887	1.483955946	1.213592825
863031	1.268455366	-0.050006557	-0.227036619	-0.362580268
863270	-0.824102360	-0.685269726	-0.782356566	-0.765643498
86355	2.576748338	3.265480209	4.234840621	3.437398846
864018	-0.623592242	-0.730713292	-0.470012616	-0.771313185
864033	0.521875137	-0.384395456	-0.570238647	-0.802496466
86408	0.211155557	0.313541963	0.222036210	0.290980060
86409	-1.279160785	2.252467405	2.653050573	0.748936173
864292	1.126249608	0.491529260	-0.301547585	-0.470046615
864496	1.325337669	-0.422833138	-0.595577393	-0.764870359
864685	0.093835806	-0.489483700	-0.696430620	-0.743222462
864726	-0.123739003	0.377920347	0.048051849	-0.665908543
864729	1.410661124	1.146673989	1.006032070	1.038863369
864877	1.360889109	1.341702622	1.561728336	1.182151832
865128	-0.877429520	-0.702879108	-0.199063646	0.181452008
865137	-0.187020565	-0.709884991	-0.673349782	-0.584728928
86517	0.642750032	0.107152439	0.713758413	0.972373399
865423	3.437093173	3.452934915	4.239858194	3.924476535
865432	0.976933562	0.105258957	-0.004758112	0.228355786
865468	-1.792523571	-0.588702151	-0.098837616	-0.539113716
86561	-0.605105493	-0.813837146	-0.935768876	-0.966659687
866083	-0.268788876	-0.487022174	-0.450945836	-0.465665493
866203	-1.008969846	-0.455590375	0.049055363	0.189441113
866458	1.325337669	1.445844126	0.313606926	0.938612987
866674	0.365448804	1.033065077	2.078538407	1.700412801
866714	0.728073486	-0.175165709	-0.755763427	-0.517981244
8670	0.912940971	0.340050710	0.725047954	0.823415248
86730502	0.315676789	0.455553104	0.194439556	0.185833130
867387	-0.123739003	-0.184065074	-0.218883062	0.268301311

867739	-0.146491924	-0.137296071	0.332422827	0.503851050
868202	-0.413127720	-0.884842716	-0.522948016	-0.563854170
868223	0.621419168	-0.821600422	-0.663314635	-0.590656328
868682	0.002113093	-0.671257961	-0.674478736	-0.519785236
868826	1.446212563	0.495316224	0.816618670	0.961807163
868871	1.424881700	0.175317786	-0.532481406	-0.024718442
868999	-0.274477106	-1.198971360	-1.113892736	-1.260710292
869104	0.060417453	0.177211268	0.071132687	0.270878441
869218	0.912940971	-0.179520717	-0.859125441	-0.781106282
869224	-0.681896603	-0.175165709	-0.499992617	-0.464892354
869254	-1.310446052	-1.002617289	-0.831528787	-1.057761255
869476	1.339558245	0.478274887	-0.648512793	-0.486797964
869691	0.905830684	1.243241565	0.967145875	0.650232070
86973701	-1.065141120	0.234015725	0.021333270	-0.342736362
86973702	0.237463622	-0.042432629	-0.049289077	0.164958372
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871001502	-0.164267644	0.495316224	0.543160914	-0.701988371
8710441	0.770735214	1.051999895	4.039155254	0.764141244
87106	0.083881403	-1.007540342	-0.865271969	-0.800434761
8711002	-0.179199249	-0.366596727	0.051815029	-0.363095694
8711003	-0.698250265	-0.711021080	-0.626560909	-0.659981142
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8711216	-1.557884071	-0.608015666	-0.467880147	-0.546587394
871122	-0.231104350	-0.983303774	-0.866526362	-0.754819549
871149	-1.508112056	-1.271681064	-1.075131980	-1.090928926
8711561	0.891610108	0.184785196	-0.255511348	-0.297378863
8711803	-0.669809113	0.268098398	0.382598562	1.230601888
871201	1.112029032	1.178863181	2.032125852	2.053479698
8712064	0.344117940	-0.053793521	-0.440283493	-0.533444028
8712289	-0.851121454	0.192359123	0.546924094	1.239621845
8712291	-0.863919973	-0.962286125	-0.869662345	-0.761004663
87127	-0.029883203	-0.889576421	-0.796405772	-0.823113511
8712729	-0.548223190	-0.237082566	-0.057442634	0.434010810
8712766	0.607198592	1.059573823	1.594342564	1.427236955
8712853	0.155695311	-0.482667166	-0.787499579	-0.286297201
87139402	0.457882546	-0.653837927	-0.613766097	-0.307171959
87163	-0.418104922	-0.785056221	-0.379069096	-0.374692781
87164	2.086138474	0.968686693	1.435034605	1.566402009
871641	0.301456213	-0.888250984	-0.817479581	-0.595037450
871642	-0.600128292	-1.161101722	-1.113892736	-1.260710292
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872608	0.044774820	0.474487923	0.525599407	-0.303048550

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873357	-2.406852445	-1.608720838	-1.093885161	-1.212981833
873586	-0.637812818	-1.261077565	-0.998576353	-0.917951918
873592	0.927161547	1.648446686	2.487470647	3.579141030
873593	1.261345078	3.386663049	2.005783591	2.594677130
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873843	-0.410283605	-0.431543155	-0.338552190	-0.652249750
873885	-0.411705663	0.016265309	-0.439656296	-0.419792568
874158	-0.262389617	-1.086687884	-1.093860074	-1.198756072
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874373	0.098101979	-0.812890405	-0.636094299	-0.425977681
874662	0.308566501	-0.922523006	-0.818733974	-0.860481905
874839	-1.106380790	-0.602335220	-0.631703922	-0.834452886
874858	0.792066077	2.593294143	1.371060543	0.444834759
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875878	-1.205213791	-0.959635250	-0.628066181	-0.648126341
875938	1.680852064	0.423363912	0.623442090	0.421125157
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878796	1.261345078	1.970338605	3.305335129	2.914241328
87880	2.555417474	1.371998332	0.840452144	1.104064774
87930	0.233908478	0.027626200	-0.109750838	-0.275988678
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8810703	1.268455366	0.894840900	2.901420462	2.849813062
881094802	0.301456213	0.194252605	0.995996923	0.439422784
8810955	-0.123027974	0.497209705	0.284755879	0.404631521
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886452	0.941382123	0.446085695	0.114032940	0.091252436
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9012000	0.706742623	1.724185962	1.956862249	2.607562783
9012315	0.075349058	0.858864744	1.157813669	1.000206409
9012568	-1.189571158	-0.662737292	-0.688277063	-0.575966684
9012795	0.265904773	0.892947418	1.309595267	1.973588648
901288	-0.135115464	0.061708874	0.801565950	1.043502204
9013005	-0.948532398	-0.768772277	-0.793269789	-0.737295061
901303	0.173471031	0.747149313	-0.279595701	0.130167109
901315	-0.400329202	1.167502290	1.746124162	0.270363015
9013579	-1.506689998	-1.080818091	-0.954459338	-0.972844801
9013594	-0.972707377	-0.546477505	-0.580900990	-0.623901313
9013838	1.794616670	2.102882337	1.004777677	0.380148780
901549	1.943932716	0.127980740	-0.122921969	0.169597207
901836	-1.172506467	-0.635281805	-0.669084845	-0.726213399
90250	-1.920508753	0.056028428	-0.117528077	-0.493240790
90251	0.557426577	0.480168369	-0.374804158	-0.518496671
902727	-0.905159642	-0.352016916	-0.477037219	-0.522620080
90291	-0.678341459	-0.719163052	-0.061456693	0.097695263
902975	-1.086471984	-0.494406753	-0.256013106	-0.607665390
902976	-1.855805133	-1.060936531	-0.857369290	-1.041473789
903011	-0.903737585	0.133661185	0.149281394	-0.550195377
90312	0.329897364	0.519931488	1.214261371	1.370540081
90317302	0.255950370	-0.547613594	-0.872672890	-0.753530984
903483	0.536095713	-0.569199287	-1.113892736	-1.260710292

903507	1.396440548	0.981941066	1.258165139	1.087828851
903516	1.446212563	1.976019051	2.410952652	2.764767751
903554	0.464992834	-0.128018010	-0.513916384	-0.403556645
903811	-1.131266797	-0.960581991	-0.777589872	-0.422885124
90401601	0.678301471	0.196146087	-0.037623219	0.126043700
90401602	-1.131977826	-0.291425496	-0.186896031	-0.208467856
904302	-1.347419549	-1.072865467	-0.773701252	-1.073971407
904357	-0.390374799	-0.795659720	-0.756014306	-0.838576295
90439701	1.894160700	2.901931689	2.886367741	1.826692202
904647	-0.543245989	-0.983114426	-0.786997822	-0.797857631
904689	-1.624720777	-0.480016291	-0.604985343	-0.775436594
9047	0.172760002	-0.302597039	-0.700444679	-0.644776071
904969	-0.678341459	-1.110167060	-0.849341173	-0.731367661
904971	0.287235637	-0.563140145	-0.493720651	-0.505095591
905189	-0.100275053	-0.366028682	-0.423976379	-0.093785543
905190	-1.482515019	-0.401058097	-0.345451353	-0.779560003
90524101	0.514764850	0.493422742	0.392633709	1.013349776
905501	-0.676208372	-0.739991353	-0.711107023	-0.576997536
905502	-0.553200392	-0.969670704	-0.764795059	-0.719512860
905520	0.806286653	-0.498004369	-0.731804513	-0.621581896
905539	-1.185304985	-0.829553045	-0.645376810	-1.128555033
905557	-0.797083266	-0.034858702	-0.253504319	-0.261814460
905680	-0.935733880	-1.103729221	-0.526084000	-0.554834212
905686	0.097390950	-0.438170342	-0.793395228	-0.699153528
905978	0.571647153	-0.809482138	-0.857118412	-0.936764972
90602302	1.112029032	0.998982403	0.795293983	0.924954195
906024	-0.605105493	-0.878594226	-0.817855899	-0.641683515
906290	0.386779668	-0.843754160	-1.001561809	-0.983411036
906539	-0.775041374	-0.513530920	-0.425857969	-0.892696038
906564	0.479213410	1.500755100	0.704977660	0.362882005
906616	0.884499820	0.235909207	-0.223649757	-0.101774648
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907145	0.792066077	-0.397839178	-1.001825232	-0.753788697
907367	-1.080072724	-1.234947515	-1.082909219	-1.127756123
907409	0.127965188	-0.057580484	-0.319234532	-0.689102718
90745	-0.593729033	-0.888250984	-0.660554970	-0.898881152
90769601	-1.055897746	-1.249716674	-0.942166283	-0.907643396
90769602	-1.237210087	-1.119445121	-0.938026784	-0.787806821
907914	0.221109960	2.237319550	2.314364362	1.241941262
907915	0.642750032	0.516144524	-0.142866823	-0.539371429
908194	1.204462775	0.843716889	1.561728336	1.983897171
908445	0.386779668	0.654368701	0.885610306	0.992732731
908469	-0.506272492	-0.636228546	-0.694172712	-0.519269810

908489	0.685411759	0.169637341	0.298554206	0.404889234
908916	-0.355534388	-0.483045862	-0.888478246	-0.722089990
909220	-0.837611907	-0.859470059	-0.670590117	-0.502003035
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909410	-1.187438072	-0.918925390	-0.852100838	-0.577255249
909411	-0.512671751	0.131767703	0.072387080	-0.329592995
909445	-0.927912564	0.124193776	0.396396889	0.217531837
90944601	-0.582352572	-0.703636501	-0.981554235	-1.004620821
909777	-1.062297005	-1.130806012	-0.863892136	-0.974391079
9110127	-0.489918829	0.357092047	0.253396044	0.351027204
9110720	0.472103122	-0.230266032	-0.431377300	-0.159244661
9110732	0.256661399	0.512357560	1.016067217	0.876504139
9110944	-0.324960150	-0.292372237	-0.603480071	-0.678278770
911150	-0.887383923	-0.498761762	-0.007894096	-0.506899583
911157302	0.034109388	0.249163580	0.858013652	1.715875585
9111596	-2.149460023	0.038987091	-0.012911669	-0.645806924
9111805	0.486323698	-0.106621665	0.962128302	1.074943198
9111843	-0.852543512	-0.754381815	-0.605236222	-0.759458384
911201	0.962712987	-0.225721675	-0.248988503	0.413136052
911202	-0.748733309	-0.947516966	-0.741839660	-0.675186213
9112085	-0.278032250	-0.569577984	-0.760279243	-0.419534854
9112366	-0.198397026	-0.352206264	-0.215747078	-0.740903044
9112367	-0.600839321	-0.990120309	-0.766174892	-0.727759678
9112594	-0.900893470	-1.015114269	-0.962612895	-0.806619875
9112712	-1.174639553	-1.099752909	-0.920590716	-0.991915567
911296201	0.186269549	0.126087258	0.149281394	0.396642416
911296202	0.856058668	1.788564345	3.445827187	3.092063341
9113156	-1.877847026	-0.986712041	-0.677865598	-0.813062702
911320501	-0.802060468	-0.867043987	-0.691538486	-0.802754179
911320502	-1.542952466	-0.840724589	-0.504382994	-0.521073801
9113239	-0.961330917	0.340050710	0.153044574	-0.530609185
9113455	-0.683318660	0.086324138	0.247124077	-0.356137441
9113514	-0.942133139	-0.947895663	-0.928367955	-1.112035626
9113538	-0.246746984	1.818860055	1.565491516	1.321574599
911366	1.503094866	0.832355998	0.165588508	0.173205190
9113778	-0.490629858	-0.790736667	-0.744097568	-0.870532715
9113816	-0.628569443	-0.839588499	-0.816977824	-0.648126341
911384	-1.093582271	-0.356939969	-0.419084245	-0.430616516
9113846	-1.377282758	-1.332272484	-1.113892736	-1.260710292
911391	0.308566501	0.048454501	-0.472270524	-0.855843070
911408	-0.423793152	-0.409957462	-0.381954201	-0.467469484
911654	-0.501295290	0.122300294	-0.478793369	-0.472623745
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911685	0.585867728	-0.417720737	-0.448060732	-0.753273271
911916	0.443661971	1.608683567	1.690930854	1.108703609
912193	-0.390374799	-0.491566530	-0.748111627	-0.867182445
91227	-1.169662352	-0.967209178	-0.738201920	-0.727244252
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912558	0.223243046	-0.469034096	-0.543394628	-0.446337013
912600	0.564536865	0.483955332	0.380089775	0.339945542
913063	-0.086765506	0.885373490	0.822890637	-0.011832789
913102	-0.707493639	-0.707423464	-0.462611695	-0.541433133
913505	0.891610108	0.766084132	1.716018721	1.816383680
913512	1.168911336	-0.221745363	-0.577137810	-0.453552979
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91376701	-1.026745565	-0.991067050	-0.898889711	-0.935734120
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914102	-1.636097238	-0.976865935	-0.888101928	-0.937022685
914333	-0.034860404	-0.395566999	-0.257894696	0.015227083
914366	0.799176365	0.550227198	-0.108245566	0.046925790
914580	-0.503428376	-0.530950954	-0.661182166	-0.650188046
914769	0.344117940	0.518038006	0.756407788	1.105868765
91485	0.863168956	1.137206580	1.630719971	1.628253144
914862	0.175604117	0.607031654	-0.145375610	0.322163341
91504	1.410661124	1.207265409	0.588319076	0.481172301
91505	1.382219972	0.078750211	-0.370288342	-0.415669158
915143	-0.209062458	0.438511767	0.988470563	1.324151730
915186	4.766717009	2.263828296	0.106632019	0.092798715
915276	2.071917898	2.197556431	0.376326595	0.553074245
91544001	0.941382123	0.205613496	-0.088426151	-0.702503798
91544002	1.638190336	0.052241464	-0.604232707	-0.160790939
915452	-0.148625011	-0.704772590	-0.420714956	-0.084765586
915460	1.559977170	1.565133484	1.432525818	0.935005004
91550	-1.092871243	-0.146384784	-0.270187751	-0.580605519
915664	-0.827657504	-1.025907116	-0.685391958	-0.605861399
915691	1.012485002	0.805847251	0.698705693	0.845320859
915940	0.139341649	-0.287070488	-0.082530502	-0.139916181
91594602	-0.299363114	-0.347851256	-0.174853854	-0.143524164
916221	0.607198592	-0.366407378	-0.574252705	-0.592202607
916799	0.742294062	0.387387757	0.854250472	1.174935866
916838	0.521875137	0.504783633	0.656056318	1.169781605
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917080	1.147580472	0.139341631	-0.627188106	-0.488859668
917092	2.896711293	0.343837673	-0.695928863	-0.636786967

91762702	0.472103122	2.011995207	1.783755963	2.530248864
91789	-0.799927382	-1.140084073	-1.050332623	-1.114741613
917896	0.199068067	0.050347983	-0.438401903	-0.285781775
917897	-0.102408139	-0.381555233	-0.821619079	-0.638075532
91805	0.514764850	-0.530572257	-0.792140835	-0.871563567
91813701	0.792066077	0.179104750	-0.586922078	-0.448398717
91813702	-0.450101217	-0.781458606	-0.742843175	-0.578543814
918192	2.022145883	-0.128586055	0.153044574	0.444061620
918465	0.969823275	-0.269839803	-0.639606600	-0.539629142
91858	0.777845502	-0.136538679	-0.451322154	-0.116464292
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91930402	-0.341313813	0.510464079	0.796548376	1.355077297
919537	0.036242474	-0.129154099	-0.453705502	-0.542206272
919555	0.585867728	1.317087358	1.501517454	2.146256400
91979701	0.528985425	0.209400460	0.721284774	0.321390202
919812	1.936822428	0.963006247	-0.547534126	-0.093012404
921092	-1.093582271	-1.052037166	-1.113892736	-1.260710292
921362	-0.688295862	0.294607145	0.046672016	-0.909189674
921385	0.247418025	0.145022076	-0.268807918	-0.592202607
921386	-0.568131996	0.353305083	0.151790181	-0.258206477
921644	-0.967730176	-0.609719800	-0.598964255	-0.480612850
922296	-0.686162775	-0.673530139	-0.739205434	-0.416700011
922297	-0.041259664	-0.048113075	-0.651272459	-0.650188046
922576	-0.277321222	-0.698145403	-0.740836146	-0.631117279
922577	-0.143647809	-1.030072776	-0.986948126	-1.119096964
922840	-0.539690845	-0.448395144	-0.567228102	-0.632405844
923169	-0.814147957	-1.023256241	-0.820741004	-1.012919182
923465	-1.026745565	-0.725600890	-0.919712641	-1.050416433
923748	-1.567838474	-1.175302836	-1.113892736	-1.260710292
923780	-0.049792009	-0.424158576	-0.508773371	-0.679051909
924084	-0.967019147	-1.173977399	-0.863390379	-0.874398411
924342	-0.281587394	-0.914381034	-0.612637143	-0.930322145
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924934	-0.430903440	-0.525649204	-0.361382149	-0.555091926
924964	0.280125349	-0.554808825	-1.050859469	-0.973102514
925236	-1.075806552	-1.034427785	-1.113892736	-1.260710292
925277	-0.826946476	0.542653271	0.176878048	-0.297894289
925291	-0.266655790	-0.042432629	0.280992699	-0.202798168
925292	0.208311441	0.156382968	-0.554182411	-0.151513269
925311	-1.555039956	-1.301976774	-1.113892736	-1.260710292
925622	0.600088304	1.976019051	2.084810374	1.169266179
926125	0.962712987	2.258147851	2.867551840	2.537980256

926424	1.040926154	0.218867870	1.945572709	2.318924153
926682	0.102368152	-0.017817365	0.692433726	1.262558307
926954	-0.839744994	-0.038645666	0.046546577	0.105684368
927241	1.524425730	3.269267173	3.294045588	2.656528265
92751	-3.109348889	-1.149740831	-1.113892736	-1.260710292
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842302	2.215565542	2.253763811	2.4875451492	-0.5647681227
842517	0.001391139	-0.867888807	0.4988156954	-0.8754732789
84300903	0.938858720	-0.397658013	1.2275957908	-0.7793975888
84348301	2.864862154	4.906601993	0.3260865190	-0.1103119811
84358402	-0.009552062	-0.561955519	1.2694258211	-0.7895489825
843786	1.004517928	1.888343495	-0.2548460559	-0.5921406306
844359	-0.064268069	-0.761661971	0.1497513054	-0.8042322483
84458202	1.402120910	1.658893530	0.6430571790	0.2903055190
844981	1.963871911	1.571079345	-0.3565363017	-0.3894753070
84501001	0.796597103	2.780648917	-0.3879088244	0.6927357680
845636	-1.034565253	-0.825398072	-0.0925743869	-0.0541167662
84610002	0.110823153	-0.280100315	0.3628680972	-0.4204733127
846226	2.135315399	2.153202406	1.9845029755	4.2620382918
846381	0.129061821	-1.333870527	-0.0067507042	-0.2517063929
84667401	0.938858720	1.986072184	-0.6962249954	-0.0867462458
84799002	1.792428424	1.129175708	-0.1268317392	-0.3332800920
848406	-0.822996694	-0.506717565	0.2435082696	0.0419589239
84862001	1.285393429	1.524339538	0.5914908486	-0.2607701373
849014	-0.837587629	-1.253138132	1.2730318581	-0.3622840739
8510426	0.267675705	-0.727669383	-0.4877960517	-0.7763159157
8510653	0.566789875	0.752424530	-0.7932273930	-0.8504573445
8510824	0.012334341	0.885562164	-0.4611113773	-0.4351565785
8511133	2.587634387	1.065439607	0.1212636124	-0.9195230764
851509	-0.155461413	-1.418851996	1.0332303918	-0.1628816983
852552	0.668926420	0.071156423	1.4482852606	-0.5712940186
852631	4.480808217	1.605071933	2.3108493319	-0.4366067776
852763	1.606394001	0.912472963	-0.5433290229	-0.4235549857
852781	-0.418098245	-0.822565357	1.6145235703	1.1459229854
852973	0.417232790	0.368591563	0.1219848198	-0.3713478183
853201	-0.264893426	-0.185204341	0.7036386020	-0.7148637290
853401	1.354700370	-0.117219166	1.5344695470	0.4516401684
853612	1.785132956	2.151786048	0.2788474331	-0.3387183386
85382601	1.591803066	0.144807029	0.7058022243	0.3283732453
854002	0.150948224	-0.026572267	0.5431699516	-1.1069613095
854039	0.679869622	0.333182618	-0.2566490744	-0.9628477744
854253	0.307800777	-0.883468743	0.2031206543	-0.5386645389
854268	0.267675705	-0.219196929	-0.4297388546	-0.3586585762

854941	-1.257077014	-0.590282676	-0.7979152412	2.0396081779
855133	-0.899599104	-1.098755130	2.9166635627	1.7604448521
855138	-0.334200368	0.197212268	-0.6929795620	-1.1337899927
855167	-0.100745407	-0.981197432	-0.6010256163	-0.7076127336
855563	0.304153043	0.835989641	-0.6078770867	0.3827557114
855625	1.817962560	0.089569074	2.0768175250	0.8141899423
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85638502	-0.239359290	-0.145546323	-0.7622154741	-1.0959035414
857010	0.347925848	-0.326840123	0.8067712627	-1.0034533490
85713702	-0.155461413	0.316186324	-0.8974418649	-0.4715928308
85715	1.154075013	0.704268364	-0.4257722138	-0.5857960095
857155	-0.498348388	-0.335338270	-0.5105140854	-0.8836306488
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857343	-1.154940468	-0.554873730	0.0037068033	-0.0124235422
857373	-1.672918664	-0.462810473	-0.7860153188	-0.5319573681
857374	0.205664231	-0.240442296	-0.6414132316	-1.0585609147
857392	1.022756597	0.042829266	1.5452876583	0.6818592748
857438	-0.713564681	-0.843810724	-0.3413909460	-0.6941983919
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857637	0.384403186	-0.451479610	1.1623265196	-0.0432402729
857793	0.785653901	0.677357566	0.0628458116	-0.1211884743
857810	0.026925276	-1.103004204	-0.0042264783	-0.0051725467
858477	-0.469166518	1.284975067	-0.8988842797	-1.1551804294
858970	3.397431286	0.963461844	0.3989284681	0.4063214467
858981	0.059754880	0.675941208	-0.1693829769	1.5411022389
858986	0.501130667	1.433692638	1.0761422332	0.0927158923
859196	1.931042307	0.967710917	0.0166885368	1.9000265150
85922302	0.340630380	0.439409454	0.0733033191	-0.0704315060
859283	0.515721602	0.530056354	-0.1711859954	0.1162816276
859464	-0.345143570	0.877064018	-0.6132861424	1.4395883022
859465	-1.078338059	-0.867888807	-0.4776991479	-0.4966087652
859471	1.092063539	2.501626428	-0.2804489192	-0.0414275241
859487	-0.808405759	-0.887717816	-0.6071558793	-0.6229573614
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859717	0.420880524	0.293524599	0.6690206460	-0.3187781011
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8610629	2.157201801	0.511643702	0.0177703480	-0.3677223206
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8610862	3.992011891	2.637596778	1.8986792928	1.2111819447
8610908	-0.341495836	-0.400490729	-0.5036626149	-0.2208896621

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8611161	0.475596530	0.881313091	-0.4297388546	-0.3640968228
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8611792	-0.647905473	1.337380306	0.4104677868	3.0692495357
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861598	1.110302207	0.093818148	0.3834225086	-0.8694912076
861648	-0.461871050	-0.586033602	-0.1192590614	-0.1918856802
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86208	1.033699798	-0.893383247	1.2708682359	0.5295883698
86211	0.322391712	0.503145555	-0.1408952839	0.5332138675
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864729	1.259859292	0.691521144	0.0772699599	-0.4857322720
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91376701	-0.976201513	-0.430234243	-0.6536737577	-0.1411287119
91376702	-2.158067257	-1.468424519	0.2820928665	-0.3097143567
914062	1.110302207	-0.287182104	1.2607713320	0.1289708696
914101	-0.724507882	-0.377829004	-0.2797277118	0.4878951458
914102	-0.359734505	-0.554873730	-0.2937912564	0.4643294105
914333	-1.184122338	-0.753163824	-0.6233830462	0.7598074762
914366	-0.622371337	0.813327916	-0.6230224425	-1.0580170900
914580	-1.041860721	-0.331089196	-0.9086205798	-0.7900928071
914769	0.074345815	0.590959740	1.3959977228	-0.3115271056
91485	0.132709555	-0.081810221	0.6679388349	-0.0015470489
914862	-0.523882525	0.834573283	-0.1196196651	-0.6789713014
91504	1.690291878	1.355792958	0.2521627587	0.5640305983
91505	0.479244264	0.470569325	-0.5317897042	-0.2208896621
915143	-1.118463130	-1.127082286	3.1943284184	-0.8549892166
915186	2.066008457	4.563843402	0.0087552552	-0.2245151599
915276	0.895085915	4.667237522	-0.4715688848	0.3138712543
91544001	1.139484078	0.869982228	-0.8080121451	-0.7630828490
91544002	0.519369336	2.402481381	-0.8195514638	-0.3387183386
915452	-0.367029972	-0.882052385	-0.7156975956	-1.3527700562
915460	-0.016847530	1.137673855	-0.2598945078	1.3489508587

91550	-1.140349533	0.677357566	-0.7672639260	-1.0426087246
915664	-0.556712129	-1.319706949	-0.6742281691	-1.0761445787
915691	1.110302207	1.480432445	-0.0525473752	-0.5189055763
915940	-0.264893426	-0.906130468	0.0408489853	-1.0752382043
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916221	0.420880524	-0.097390157	-0.5847984494	-0.3749733160
916799	0.176482361	-0.479806766	0.5038641474	-0.5335888421
916838	-0.035086199	-0.129966387	0.3704407751	-0.6220509869
917062	-0.374325440	1.378454683	0.1349665533	-0.0867462458
917080	1.124893143	0.486149261	-0.0785108423	-0.3876625581
917092	1.405768643	2.005901194	-0.1852495401	-0.1574434517
91762702	0.654335485	0.650446768	2.1143203107	-0.5736505921
91789	-0.636962272	0.089569074	-0.9764140771	-0.2426426486
917896	-0.356086771	0.797747980	-0.3103790270	0.0582736637
917897	-1.548895716	0.865733155	-0.5602773972	-0.0015470489
91805	-0.487405187	1.198577241	-1.0041805626	-0.9744493671
91813701	-0.323257167	0.052743771	-0.7405792515	-1.1058736602
91813702	-0.447280115	-0.668182355	-1.0406015372	-1.3072700595
918192	0.599619479	0.251033865	0.5081913919	2.5707435967
918465	-0.564007596	0.464903894	-0.5548683415	-1.2922242439
91858	-0.779223889	0.562632583	0.1198211975	1.2510624198
91903901	0.172834627	0.256699296	-0.7156975956	-0.6206007878
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91930402	1.292688896	-1.219145544	1.5449270545	0.9410823631
919537	-0.702621480	0.181632332	-0.9176356725	0.6637317861
919555	1.150427279	-0.040735845	1.0581120477	-0.4110470185
91979701	0.417232790	-0.421736096	-0.7301217440	1.1495484831
919812	1.165018214	1.593741070	-0.3947602948	1.3797675895
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921362	0.822131239	2.083800873	-0.6691797172	0.4752059037
921385	0.023277542	0.711350154	-0.4571447365	0.9990903269
921386	0.220255166	0.086736358	-0.5444108340	-0.2498936440
921644	0.103527685	-0.849476155	-0.3680756204	0.3048075100
922296	-0.669791876	-0.706424016	-0.6132861424	0.6891102703
922297	-0.698973746	0.578212519	-0.4802233738	-0.3079016079
922576	-0.538473460	-0.678096860	-0.2133766293	0.2159828154
922577	0.267675705	-0.111553735	-0.7023552584	-0.4529215174
922840	-0.520234791	0.615037822	-1.0485348188	-0.3514075807
923169	-0.844883097	-0.063397570	-0.3947602948	0.2649270348
923465	0.599619479	0.068323707	0.4126314091	1.2710026573
923748	-0.549416661	-0.469892262	-0.3204759308	0.1579748516
923780	0.796597103	0.385587857	-0.4513750771	0.4534529173
924084	-0.994440182	-0.910379541	-0.5923711272	0.2721780303

924342	-0.436336914	0.419580444	-0.3745664872	1.2003054514
924632	-0.895951370	-0.809818137	-0.6980280139	0.2594887882
924934	-0.797462558	-0.216364213	-0.6680979061	1.8528950444
924964	-0.075211270	0.072572780	-0.5808318086	1.5827954629
925236	-0.253950225	-0.312676545	0.4771794729	3.1000662665
925277	-1.304497553	-0.188037057	-0.6482647021	-0.1973239268
925291	-1.545247982	0.411082297	-0.5999438051	3.0583730425
925292	-1.001735649	-0.154044470	-0.1466649432	0.4987716390
925311	-2.741704661	-1.101587846	-0.3284092124	4.8566199209
925622	1.154075013	1.235402544	-0.5227746115	-0.0214872865
926125	1.230677422	0.848736861	2.0086634240	-0.3459693341
926424	-0.312313966	-0.930208551	2.7796341533	0.0709629058
926682	-0.217472887	-1.057680754	1.2993559289	2.2589507911
926954	-0.808405759	-0.894799605	0.1847298651	-0.2571446395
927241	2.135315399	1.042777882	1.1569174639	0.6854847725
92751	-0.819348961	-0.560539162	-0.0702169570	0.3827557114

	perimeter_se	area_se	smoothness_se	compactness_se	concavity_se
842302	2.830540289	2.485390675	-0.213813513	1.315703888	0.7233896514
842517	0.263095470	0.741749287	-0.604818670	-0.692317104	-0.4403925588
84300903	0.850180232	1.180297518	-0.296743909	0.814257044	0.2128891146
84348301	0.286341454	-0.288124629	0.689095329	2.741867851	0.8187979283
84358402	1.272070124	1.189310289	1.481763364	-0.048477225	0.8277424542
843786	-0.321021720	-0.289003924	0.156209255	0.445151962	0.1598845164
844359	0.155273668	0.298364935	-0.908230679	-0.650995203	-0.3098687356
84458202	0.489620171	0.233516951	0.587513921	0.268696280	-0.2323495106
844981	-0.227543186	-0.352093318	-0.436293449	0.532821399	0.1204623464
84501001	-0.409059705	-0.360446618	0.035976834	2.607292473	1.5085202629
845636	-0.197867461	0.003801211	-1.003151011	-0.905124890	-0.6918331217
84610002	0.345198309	0.303860527	-0.422971297	0.844969267	-0.1319720527
846226	4.057631523	1.667646605	-1.299568890	3.210368855	1.8884969766
846381	0.018270737	-0.082589493	0.908577781	0.322861473	0.6167178975
84667401	-0.398178605	-0.464423216	-0.203821899	1.891976875	0.7657933300
84799002	0.006400447	-0.171178434	-0.477592120	0.944923593	0.5140214884
848406	0.162692600	0.111294988	-0.440623149	-0.773844096	-0.3946760928
84862001	0.488630981	0.304300174	-0.004988783	-0.026141063	-0.0004543933
849014	1.483262368	1.584113609	-0.182173403	-0.365650730	0.0667951907
8510426	-0.399662392	-0.368799918	0.473276469	-0.607439687	-0.2658086633
8510653	-0.733514299	-0.564223164	-0.980503353	-0.362858710	-0.4940597145
8510824	-0.473357109	-0.541581326	0.854290012	-0.623075000	-0.3989827164
8511133	0.256171134	0.100523628	-0.083922533	1.552467208	1.0788517384
851509	0.710704324	1.179418224	-0.770346407	-0.719678902	-0.4884279759
852552	1.280478246	1.368686408	-0.330715396	-0.371793174	-0.1485359897
852631	2.181136504	1.562131241	0.329064175	0.698667404	0.1797612407

852763	-0.373943430	-0.423975660	-0.862269255	0.283214785	-0.1684127140
852781	1.368021635	1.169526158	1.235303555	0.097266234	0.6266562596
852973	0.312555011	0.069528490	-0.602154240	0.284331593	0.1280817574
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853612	0.301179317	0.014572571	-0.496243133	0.483681842	0.3364560843
85382601	0.560347316	0.603260372	0.408664032	0.298291695	0.6137363888
854002	0.327392874	0.611833495	-0.674759968	0.430075052	0.1019107370
854039	-0.337837964	-0.116662163	-0.951194619	0.178793226	-0.1740444526
854253	0.070203256	0.106678691	-0.421306028	-0.027257871	0.1675039274
854268	-0.103399736	-0.339123722	-0.387334541	0.249710542	0.5385361151
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855138	-0.653389842	-0.479591050	-0.557525031	-0.172442926	-0.0465021381
855167	-0.640035765	-0.435406491	-1.252608304	-0.807348339	-0.5960935661
855563	-0.516386911	-0.513663719	0.340721058	-0.437684853	-0.1969026856
855625	2.949737785	1.419245853	-0.164188498	4.194835209	2.1644521662
856106	-0.217156682	-0.197996922	-0.655775901	-0.223816099	-0.3327269686
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857010	0.705758369	0.686353721	-0.248784162	0.807556195	0.7833511032
85713702	-0.876452375	-0.706339170	0.641801690	-0.503576532	-0.5305003758
85715	-0.479292254	-0.353632084	-0.169517358	-0.118277732	-0.0942062765
857155	-0.503527430	-0.449914854	-0.517225522	-0.625867021	-0.2873417813
857156	-0.559416712	-0.442660672	-0.861270094	-0.650995203	-0.3625420551
857343	-0.114280835	-0.260866493	-0.394328671	-0.877818931	-0.6696374462
857373	-0.700871002	-0.566861049	-0.853942910	-0.765468035	-0.6991212539
857374	-0.665754727	-0.502672536	0.056293116	-0.954767011	-0.6222645865
857392	0.994602094	1.285373235	-1.046448004	0.230724804	-0.1233588055
857438	-0.380373170	-0.229211884	-0.787998258	-0.847553432	-0.5255311947
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857793	-0.064821293	-0.005431383	-1.126380915	0.171533974	-0.2045220966
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858477	-0.900192956	-0.703767233	1.022149125	-0.833593330	-0.4003078313
858970	0.220560264	-0.125674933	0.157541470	-0.809023552	-0.8026458599
858981	-0.184513384	-0.482448757	1.628307035	0.342964019	-0.0627347963
858986	1.239921422	0.449383800	0.788012306	2.517389420	1.2289210072
859196	-0.127634911	-0.369679212	0.565199316	0.776285568	0.3719029093
85922302	0.030141027	-0.085227377	0.246466833	0.055944334	-0.0716793222
859283	-0.205780988	-0.112045866	-0.112565159	-0.132796238	-0.2896607325
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859465	-0.511935552	-0.487724526	0.746380582	-0.908084431	-0.3731429747
859471	-0.485227399	-0.498276062	0.835305945	3.382915709	9.0076770783

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859983	-0.449616529	-0.373416215	-0.774009999	-0.269605232	-0.4738517114
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8610404	1.069780598	0.855398127	1.258617321	-0.192545472	0.1029045732
8610629	-0.105872713	-0.168980197	2.117896115	0.162599509	-0.6716251186
8610637	1.703851925	2.076518640	0.299422387	1.837811682	0.4865253530
8610862	2.860216014	1.672043079	1.112073650	2.393982123	2.5576800294
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862485	-0.688011521	-0.540482208	-0.295744747	-0.680032214	-0.4957161082
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862965	-0.832433383	-0.564003341	-0.653111471	-1.082194817	-0.7024340413
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863031	-0.351686636	-0.433428078	0.499254665	-0.132796238	-0.0809551269
863270	-0.997925010	-0.683873191	-1.193657782	-0.838060563	-0.6699687249
86355	3.553144196	2.850297975	-0.175179273	3.417536761	2.3887278725
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864033	-0.058886148	-0.383967751	2.267770324	0.214531086	-0.1548302857
86408	-0.076691583	-0.436505609	1.954699755	0.834359590	0.6332818344

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864292	-0.408070514	-0.449035559	1.611654345	0.669630393	0.4643296775
864496	-0.747857567	-0.689610589	0.406332656	-0.186961431	0.0230663971
864685	-0.428348926	-0.341761606	0.253794017	-0.022790638	-0.4486745272
864726	0.204733210	-0.514323190	3.766512408	2.352101819	2.0120639463
864729	0.060805943	0.018529397	-0.018643989	0.008479989	-0.0590907301
864877	0.362014553	0.402121710	0.552210218	0.797504922	0.9145374839
865128	0.242817057	0.301222643	-1.004816280	-0.952421714	-0.2976114222
865137	-0.872001017	-0.655889637	-0.333379826	-0.568909807	-0.5550150025
86517	1.003504812	1.102040290	0.353377102	-0.249502686	0.0505625325
865423	3.432957509	4.235187126	5.425120314	4.053000578	3.1771712714
865432	-0.463959796	-0.354951026	-1.073425362	-0.710186033	-0.1018256875
865468	-0.812649566	-0.564442988	-0.373679336	0.403271658	0.5855776960
86561	-0.678119612	-0.493000294	-0.813310347	-0.910708930	-0.7542129082
866083	-0.551008590	-0.450794148	-0.983500837	-0.767143247	-0.4615943981
866203	1.162269941	0.898923215	-0.870262546	0.102291870	0.2817950923
866458	-0.034650973	-0.010926975	0.654457734	0.914211370	0.0048460665
866674	-0.049983431	0.505438837	-0.668764999	0.352456888	0.5186593907
866714	-0.441703002	-0.551693215	-0.089251393	-0.051269245	-0.7193292570
8670	0.112738462	0.175263677	-0.266769067	-0.594037989	-0.1246839205
86730502	-0.010910392	0.073485316	-0.720721391	-0.332704890	-0.3214634914
867387	-0.442197598	-0.272517148	-0.607483101	-0.576727464	-0.5006852893
867739	0.445106584	0.615790322	-0.346368924	-0.628659041	-0.1107702134
868202	-0.696914238	-0.449914854	0.152545663	-0.751507934	-0.2840289939
868223	0.193852111	-0.131170525	-0.154196884	-0.652112011	-0.1747070101
868682	-0.852217200	-0.608187899	-0.635459620	-0.573377039	-0.5815173016
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868871	-0.502043643	-0.307908760	1.408491529	0.530587783	-0.3320644111
868999	-0.815122544	-0.617200670	-0.333379826	-1.106876276	-1.0565710133
869104	0.824461270	0.741749287	-0.090250555	-0.340522547	-0.0405391208
869218	-0.459508437	-0.416721479	-0.125554257	-0.453878571	-0.6729502336
869224	-0.582168101	-0.520917901	-0.571846344	-0.549924069	-0.5563401174
869254	-0.524300437	-0.496737296	-0.164521551	-0.428191984	-0.3880505180
869476	0.076632997	-0.336485837	1.042132353	1.224684026	-0.1326346102
869691	-0.289367613	-0.343300371	-0.537541803	0.605972330	0.4835438444
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8711003	-0.683560162	-0.523775608	-0.507233908	-0.550482473	-0.3960012077
8711202	1.322518857	1.177659634	0.664782402	1.343624091	0.6680661020
8711216	0.303157698	0.137893653	-1.198320536	0.063203586	-0.0441831869
871122	-0.838368528	-0.595438126	-0.503903370	-0.876087879	-0.7802182893
871149	-0.523311246	-0.479151402	-0.299408339	-1.080184562	-0.9957813647
8711561	0.524241851	-0.043900526	0.796671705	-0.079747852	0.3238674922
8711803	2.030284901	1.735791944	0.787679253	0.283214785	0.3825038290
871201	0.952561483	1.247123915	-0.993825505	-0.151223572	0.2781510262
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8712853	-0.481270636	-0.352972613	-0.653111471	-0.657696052	-0.8155326028
87139402	-0.591565414	-0.503551830	0.334393036	-0.763792823	-0.4990288956
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873586	-0.538149109	-0.407708708	0.497256342	-1.067341269	-0.8518407526
873592	1.461005574	1.942426199	-0.802652625	-0.006038517	-0.0266254137
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873843	-0.476819277	-0.386165988	0.104918970	0.659020716	0.9029427280
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875099	-0.314591980	-0.409906945	-1.774503603	-1.046568638	-1.0565710133
875263	-0.110818667	-0.129631759	0.685098683	0.724353991	0.1900308816
87556202	0.358552385	-0.332748835	0.346382972	1.437435972	0.7823572670
875878	-0.679108803	-0.540482208	-0.580505743	-0.536522371	-0.2876730601
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877159	0.715155682	0.791869085	-0.503237262	1.534598278	0.9675420821

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878796	0.890737056	0.941349184	0.761368003	1.436877568	1.9110239309
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879804	-0.667238513	-0.615661904	0.891925091	-0.725262943	-0.7923762190
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881046502	2.058971435	1.568725952	0.360704285	0.593687441	0.7618179852
8810528	-0.703343979	-0.510366364	-0.507566962	-0.458345803	-0.3791059920
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869691	1.075130684	4.323263370	0.3174881339	-0.523290583
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8711216	-0.112820893	-0.646268892	-0.8601068886	0.403623564
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8711803	2.616388459	1.332834024	-0.1636025155	1.191914391
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8712766	0.631066929	-1.099914120	0.5007787584	1.421573923
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87163	-0.381366017	-0.646268892	-0.7282132227	0.353967449
87164	0.227519941	-0.317224886	0.1410000481	0.521556837
871641	0.653756318	1.243314699	0.3741759559	-1.017782729
871642	-1.911765299	1.464693571	-1.0554909151	-0.978471638
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854941	-0.466499027	-0.678556178	-0.5878265001	-1.548612870
855133	-0.077644516	-0.348819222	-0.3192779410	-1.686136562
855138	0.055770002	0.001154298	-0.2462130616	1.253979831
855167	0.743993676	-0.141692037	-0.1627856152	-1.005963650
855563	1.572139893	-0.596419536	-0.6438546167	2.563520725
855625	1.219079521	2.087305978	1.3531349955	-0.335864129
856106	0.377917254	0.173760286	0.0467490029	0.903600997
85638502	0.685421448	-0.052413078	-0.2456861514	0.785348140
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857392	-0.251734192	0.828472653	0.7735337888	-0.191332860
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85759902	-0.521817242	-0.757419259	-0.6575542816	-0.327104659
857637	0.400695342	1.870060510	2.2207804383	1.315296127
857793	0.817208960	0.251135384	0.1842725620	0.194083858
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858986	0.623595208	0.352318204	0.1386070123	1.385371894
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85922302	1.267889711	0.135072737	0.0135536611	2.309496070
859283	1.254873660	0.218399765	0.0781879775	1.420409778
859464	0.957131504	-1.197266931	-0.9657967415	0.982436235
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859471	-0.492531128	-1.242799200	-0.9763349453	0.693373696
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859717	1.324834932	1.319506929	1.4058260143	1.144486446
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8610404	-0.181772921	0.640986839	0.6014097941	0.772208934
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8611161	-0.404672786	-0.315488411	-0.4666371569	0.929879410
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8611792	1.145864237	1.012982502	0.7331373410	0.299197508
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862717	1.560750849	0.039841847	0.0455195458	-0.257028892
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914769	-0.455109982	1.164756733	1.2635602635	0.386792216
91485	0.826970998	1.664718904	1.5445790304	0.614538459
914862	-0.853726531	0.072577465	-0.0415962719	-0.826394497
91504	1.181658376	-0.037533251	-0.1626099784	2.059851150
91505	-0.695906918	-0.612787345	-0.5771126596	1.122587769
915143	-0.294036357	3.102110147	3.3395864039	-0.546091430
915186	-1.512664091	-1.137152432	-1.0193659440	2.532862577
915276	-1.242581042	-1.124653377	-0.9703632965	2.988355061
91544001	-0.245226167	-0.658617210	-0.6415713392	0.342994862
91544002	-0.803289335	-0.927942071	-0.8245848112	1.481726074
915452	-1.288137218	0.075553431	0.0836327161	0.132767562
915460	1.733213519	0.310654690	0.0506130110	1.788307554
91550	-1.314169320	-0.774084664	-0.7144605819	-1.097938094
915664	-1.317423332	-0.165499759	-0.2114369892	-0.808875556
915691	0.648000303	0.179712216	-0.0635508631	1.096309356
915940	-1.372741547	0.036865882	-0.0326387987	-0.440977780
91594602	0.387679292	0.194592043	0.1517797670	-0.340243865
916221	-0.430704888	-0.836579936	-0.7060300189	0.697753432
916799	0.085056116	1.039766190	1.0756289632	0.737171051
916838	-0.072763497	1.584367841	1.3443531590	0.408690894
917062	-0.212686041	-0.236625330	-0.3616063927	0.579500575
917080	-0.640588703	-0.405660159	-0.4504785778	0.662715548

917092	-1.275121168	-1.173161612	-0.9729978474	2.305116334
91762702	0.203827577	2.929504159	3.0936949829	0.080210736
91789	0.122477261	-0.919014175	-0.7810269023	-0.944647354
917896	-0.007683244	-0.233054172	-0.3138332024	0.443728777
917897	-0.437212913	-0.980319060	-0.8853551195	0.417450364
91805	-1.175873782	-1.308270437	-1.0625725794	1.389751630
91813701	-0.084152541	-0.159547829	-0.2823942278	1.315296127
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918192	-1.675364723	-0.379174068	-0.3991926528	0.307956979
918465	-1.611911476	-0.605347431	-0.5808010309	0.864183378
91858	0.374663241	-0.557731987	-0.5765857494	0.110868884
91903901	0.509704766	-0.602966659	-0.5795715738	0.991195706
91903902	-0.891147676	-0.168475724	-0.1882529409	-0.261408627
91930402	0.239621716	1.331410790	1.3425967917	-0.992824444
919537	0.135493312	-0.917526192	-0.8309077334	0.456867983
919555	-0.032088339	1.575439945	1.6306410278	-0.243889685
91979701	1.398050217	-0.088124661	-0.2674651058	0.246640683
919812	1.059632902	-0.629155154	-0.6900470765	1.945978029
921092	0.853003099	-1.490697110	-1.1110483167	-0.296446511
921362	1.010822712	-1.570452980	-1.1539036786	1.192663535
921385	-0.975752005	-0.847591007	-0.7425624586	0.093349943
921386	0.984790611	0.185664147	-0.1259019020	0.071451265
921644	1.075902965	0.004130263	-0.0951654744	-1.154874655
922296	1.869882050	-0.439883760	-0.4408185576	-1.102317830
922297	-0.150859800	-0.240791681	-0.3371928874	-0.261408627
922576	0.555260943	-0.288109530	-0.2648305549	-0.471635928
922577	-0.635707684	-1.075549950	-0.8706016343	-0.169434183
922840	-0.591778513	-1.076740336	-0.9189017348	0.601399252
923169	-0.014191270	-1.135664449	-0.9069584372	-0.546091430
923465	0.939234434	-0.695221584	-0.6586081020	-0.524192753
923748	-0.147605788	-0.987461377	-0.8224771704	-1.413279045
923780	0.420219418	-0.876755467	-0.7797974452	-1.036621798
924084	1.679522310	-0.570231041	-0.5021157762	-0.392800690
924342	-0.102049611	-1.321364684	-1.0270939601	-0.966546031
924632	1.637220146	-0.548208898	-0.5003594089	-0.423458838
924934	1.502178621	-1.121677412	-0.9185504614	0.264159624
924964	-0.455109982	-1.171971226	-0.9366410445	-0.257028892
925236	1.393169198	-1.213039547	-0.9659723783	-1.097938094
925277	0.259145792	-0.040509216	-0.2583319959	-1.303785659
925291	1.868255043	-0.743432222	-0.7137580350	-0.112497623
925292	1.219079521	-0.210139239	-0.3054026394	-0.362142542
925311	2.053733764	-0.954428162	-0.7745283433	-1.738693387
925622	2.784259602	0.638010874	0.0604486678	0.408690894

926125	0.607325145	2.137897388	1.6482047007	0.364893539
926424	0.117596242	1.751021898	2.0135290977	0.378032746
926682	2.045598732	1.420689749	1.4936443789	-0.690622699
926954	1.373645122	0.578491567	0.4275294320	-0.808875556
927241	2.235958472	2.301575480	1.6517174353	1.429169249
92751	0.763517752	-1.431475401	-1.0748671504	-1.857384218
	compactness_worst	concavity_worst	concave.points_worst	symmetry_worst
842302	2.614364658	2.107671818	2.294057599	2.7482041142
842517	-0.430065806	-0.146619958	1.086128616	-0.2436752590
84300903	1.081980138	0.854222319	1.953281664	1.1512420284
84348301	3.889974667	1.987839169	2.173873229	6.0407261473
84358402	-0.313118999	0.612639700	0.728618149	-0.8675895962
843786	1.720102933	1.262132653	0.905091401	1.7525273482
844359	0.021196330	0.509104292	1.195663738	0.2622449159
84458202	0.724148332	-0.021035343	0.623646991	0.4772205813
844981	1.816711165	1.278909223	1.390392844	2.3877561940
84501001	5.108382433	3.991920376	1.618591014	2.3683598934
845636	-0.630273655	-0.605339335	-0.226010864	0.0763637015
84610002	1.948911903	0.595863129	1.010062560	1.4405701796
846226	0.864611617	0.439601356	0.944645751	0.4448934136
846381	-0.393202139	-0.191677034	-0.041170346	-0.1483101142
84667401	3.293800184	2.023309633	1.615548372	1.1237639359
84799002	2.564153801	2.063094072	0.860973088	2.1291388522
848406	-0.426887904	0.092086677	0.704277011	0.2072887308
84862001	1.074353173	0.988434884	1.410170019	1.3015633584
849014	0.386019521	1.270281273	1.889386176	-0.2145808081
8510426	-0.489174790	-0.159082554	0.215932927	0.1232380947
8510653	0.148312424	-0.398747850	-0.635550513	0.4578242807
8510824	-0.886412586	-0.879660233	-0.796202025	-0.7285827749
8511133	2.168187166	1.717496715	1.896992782	2.8548837677
851509	0.036450261	0.207605350	1.312805466	-0.1272974552
852552	0.658047963	0.945774462	1.443639084	1.1512420284
852631	0.893848319	0.542178103	2.135840201	1.8834523775
852763	2.606102112	1.350329482	2.365559692	2.2034913380
852781	-0.270535107	0.347090552	0.523239796	-0.9047658391
852973	2.267337720	1.731876633	1.335625283	1.8204144004
853201	0.171193321	-0.111628825	0.471514877	-0.2339771087
853401	1.089607104	1.635051854	1.067872763	0.8780774611
853612	2.054418262	2.029540931	0.608433780	3.0068214560
85382601	0.645971934	1.373816681	1.066351442	1.0170842824
854002	2.572416347	1.614919969	0.972029531	1.2466071732
854039	2.072850095	1.223306875	1.092213901	2.2131894883
854253	0.821392145	1.288016505	1.014626523	3.1716900115

854268	1.077531075	1.181125783	0.457822987	1.1156821439
854941	-1.322484348	-1.073022194	-0.980890411	-1.4769567079
855133	-1.289942628	-1.189739193	-1.302497700	-2.1590599469
855138	1.069268529	1.106350210	1.691614429	-0.1515428310
855167	-0.317568062	-0.305278384	-0.051819593	0.1507161873
855563	0.098737147	0.623664304	0.422832601	0.1022254357
855625	3.115202071	2.166629480	2.049124896	2.8597328429
856106	0.750842712	0.451584621	0.526282438	1.3549031851
85638502	0.865247197	0.482261779	0.701234369	1.2805506994
857010	1.619045638	2.216000531	1.874172965	1.4518846883
85713702	-0.753576267	-0.974903222	-1.353461958	0.3301319681
85715	1.031769281	1.094846276	1.432989836	1.6151368853
857155	-0.245747469	0.157275637	-0.747367617	-0.2485243342
857156	-0.528580779	-0.210850258	0.206805000	-0.0480958943
857343	-1.068506391	-1.039948383	-1.178357895	-0.7560608675
857373	-0.610570660	-0.801385547	-0.437322369	-0.8966840471
857374	-1.050010999	-0.863554725	-0.785704910	-0.1871027155
857392	-0.156130622	-0.047398526	0.272221809	0.1943578637
857438	-0.308669936	-0.004738103	0.584092642	-0.3649021380
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857637	0.615464072	0.554640698	1.437553799	1.0283987911
857793	1.110581260	0.414676165	1.046574267	1.2886324913
857810	-1.222571098	-1.295839020	-1.574509919	-0.7463627172
858477	-0.828574763	-0.744824537	-1.071256887	0.5160131826
858970	-0.988995274	-1.200763797	-1.351179976	1.0607259588
858981	-0.536843326	-0.873237203	-1.320905685	0.1151563028
858986	2.354412245	2.013243691	0.972029531	-0.0917375707
859196	-0.549554935	-0.635057832	-0.969632635	0.6162274025
85922302	0.965033332	0.624143634	0.867058373	0.7794795996
859283	0.555083927	0.144813042	0.711883617	0.6792653796
859464	-0.558453062	-0.853536716	-0.752083713	-0.0367813856
859465	-1.034629952	-0.612529294	-0.684537054	-0.8094006943
859471	1.158249795	4.696536347	0.918783291	2.1453024361
859487	-1.167275596	-0.806658184	-0.848687605	-0.8368787868
859575	-0.131342984	-0.016721368	0.978114816	-0.5653305779
859711	-0.067784937	-0.617322600	-1.015424401	-1.0453890187
859717	3.083423047	1.842602000	1.145460141	0.6663345125
859983	0.635167066	0.027377047	0.360458434	-0.5039089592
8610175	-0.444684157	-0.488382671	-0.426064593	-0.4570345660
8610404	-0.316296902	0.051343576	0.568879430	-0.4053110977
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8611161	1.429007077	1.023905348	0.854887804	1.0122352072
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861648	-0.493623853	-0.864225788	-0.686819036	-0.6122049711
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862028	1.055285759	1.189274403	1.474065506	-0.1079011546
86208	0.633260325	0.659614098	0.649509450	1.2740852658
86211	-1.021282762	-1.065976034	-0.848687605	-1.0890306951
862261	-1.013973586	-1.206467831	-1.381302134	-1.5626237023
862485	-0.439599513	-0.383409271	-0.458164469	-0.2081153745
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862989	-0.671586386	-0.921841325	-1.256249537	-0.1208320217
863030	0.989185389	1.751529187	1.277815080	0.3980190204
863031	0.074585089	0.072434122	0.109440447	-0.1531591894
863270	-0.368414500	-0.376219312	-0.459229394	0.1329362450
86355	2.831097599	3.300725662	2.683515810	1.8656724352
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864033	-0.494259434	-0.681552899	-0.932056003	-0.5944250289
86408	-0.186002905	-0.242486077	-0.062468841	-1.0906470535
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864726	-0.421803260	-0.564596235	-1.158428588	-2.0184367673
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8711561	-0.413540714	-0.367112031	-0.540315810	0.4319625465
8711803	-0.334728735	-0.219478208	0.959858962	-0.7398972837
871201	0.828383530	1.959558665	1.674879896	1.1997327800
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87163	-0.633451557	-0.037332583	0.021203821	-0.0270832352
87164	0.661225866	1.489814684	1.035925019	0.5095477490
871641	-1.092340659	-1.115922282	-1.088447816	-1.6143471707
871642	-1.184436269	-1.304682669	-1.743528697	-0.3083295945
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873357	-1.397927750	-1.266446468	-1.602669573	-0.9791183248
873586	-1.269985401	-1.172483292	-1.136521564	-1.8066938187
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873843	-0.592774407	-0.514745853	-0.785704910	-1.7614357839
873885	0.480721011	0.435287381	0.121611016	0.4432770552
874158	-0.968402467	-1.271512992	-1.585007035	0.0521183257
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875263	1.374982736	0.816355202	0.476078841	0.5079313907
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877486	1.943827259	0.547930070	0.854887804	0.4723715062
877500	0.961855429	1.076152383	1.052659551	2.9938905889
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8812816	-0.043632879	-0.461540157	-0.517952390	-0.8417278620
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92751	-0.750546291

attr(,"scaled:center")

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
attr(,"scaled:scale")		
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

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data.dist <- dist(data.scaled)
data.dist
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84300903	6.771675	5.027592					
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84358402	8.663413	4.375039	4.458306	15.361783			
843786	8.402233	8.636180	6.885051	9.362930	8.235620		
844359	9.843286	2.533798	4.431417	15.019438	4.920386	7.065364	
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844981	8.460437	8.745629	6.302019	9.329609	8.685962	2.692775	6.876446
84501001	11.183061	14.190212	11.656882	8.472046	13.897607	8.271826	12.868519
845636	12.748000	4.713225	7.517024	16.371218	7.394356	8.415097	3.980423

84610002	8.363450	4.967877	4.249554	12.318201	5.873094	4.927077	3.688425
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846381	11.831489	5.606990	6.395560	15.240176	5.954309	8.126174	5.067701
84667401	8.795377	9.905752	7.442862	8.879575	9.571560	4.261600	8.463319
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852631	4.906745	8.839330	5.418522	10.915414	7.399943	7.359732	8.442058
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857010	6.389467	5.829232	2.673908	12.030854	4.924646	5.809615	4.711094
85713702	14.543665	9.309678	10.839526	15.695232	10.086897	8.207851	8.401736
85715	9.384897	7.308627	6.253797	10.966970	7.731833	2.500651	5.532523
857155	12.349896	6.822058	8.411982	15.138406	7.624933	6.317822	5.578261
857156	12.947193	5.999550	7.808706	15.835017	7.808293	7.767133	4.824443
857343	14.343437	7.470572	9.710714	16.989614	8.816114	9.105644	6.798455
857373	13.925244	6.378898	9.306975	17.124241	8.218423	8.725149	5.919309
857374	13.760720	7.070857	9.362762	16.280618	8.425873	8.194385	6.468309
857392	8.164320	4.932138	4.075798	13.657558	4.734588	6.806709	4.375330

857438	12.388929	4.762294	7.095881	15.971481	6.991411	7.516653	3.370493
85759902	13.193085	7.486932	8.975141	15.222541	8.392818	7.692981	6.664622
857637	7.805031	3.838849	2.927717	14.025263	4.435029	7.251984	3.173596
857793	8.983572	5.994034	4.981196	11.746067	6.937537	3.981760	4.332346
857810	14.454493	7.211906	9.896982	17.553704	8.641814	9.625898	6.946630
858477	13.986480	9.651896	11.008579	14.985647	10.002026	7.302570	8.718358
858970	12.774729	9.849735	10.280879	13.790422	10.064169	7.884139	9.240025
858981	13.681587	10.173321	10.345430	13.937172	10.032404	7.310739	8.958232
858986	7.698996	8.372007	5.710154	10.845868	7.061931	5.150139	7.156644
859196	13.000362	9.860880	10.325319	14.034453	9.884291	8.424702	9.428385
85922302	9.980318	6.979199	6.055794	11.972960	7.376415	4.017011	5.049836
859283	9.843067	6.247334	5.343531	12.403231	6.763924	4.516778	4.306919
859464	13.721032	9.081616	9.960396	14.380626	9.653449	7.007751	7.910057
859465	14.212860	7.467751	9.597278	16.740837	8.378659	8.620071	6.715832
859471	13.898494	15.910579	13.682362	12.535487	14.205631	11.684756	14.997739
859487	13.792376	6.998499	9.202530	16.644161	7.850728	8.283495	6.313472
859575	10.385434	2.749259	4.996933	16.732852	4.604527	9.210990	2.982311
859711	14.154792	13.457431	12.984277	14.146179	12.092797	10.462069	13.314993
859717	7.727936	7.160416	4.972435	11.524414	7.441529	5.850654	5.991582
859983	10.829136	5.607737	6.911073	14.115174	6.641435	5.248978	4.396736
8610175	13.052925	6.428443	8.580000	16.018190	7.841061	7.492135	5.545374
8610404	10.573678	4.411957	5.406173	15.589513	4.164253	7.758310	3.880995
8610629	11.406568	8.253507	8.536429	14.081998	7.291344	6.679369	7.753809
8610637	4.825704	6.992550	3.702386	11.345719	5.510428	6.607281	6.760971
8610862	8.702467	15.038243	10.977976	9.944294	13.314660	12.622519	14.396877
8610908	12.496919	6.309602	8.036203	15.196513	7.544746	6.727480	5.184801
861103	12.775246	8.188095	8.992204	14.219658	8.645030	6.465795	6.952631
8611161	9.329308	7.070873	6.174785	11.286789	7.034517	2.840055	5.548880
8611555	8.212310	9.406562	6.784788	15.497619	8.223773	11.565134	9.370894
8611792	9.789816	8.253465	6.449898	13.383655	7.415382	8.558147	7.810926
8612080	12.417662	6.986136	8.373454	14.632531	8.143870	6.447019	5.820709
8612399	8.429660	3.618836	3.593250	13.790300	4.458097	6.878710	3.125798
86135501	11.231206	6.278435	6.474263	14.372834	6.343465	7.112582	5.298717
86135502	9.191672	3.918596	3.838465	14.049472	5.827650	7.299292	2.770328
861597	11.898876	6.572095	7.487764	13.952359	7.625900	6.133941	5.406163
861598	9.109215	5.885361	5.320168	12.770606	5.519524	5.061834	5.035833
861648	12.936881	5.703058	7.830560	16.049858	7.498131	8.107299	4.912918
861799	11.444491	5.369347	6.140431	14.764491	5.582253	7.012553	4.436335
861853	13.998856	6.167879	9.247155	18.177360	7.789898	9.711871	5.962337
862009	12.774425	6.186050	8.012186	15.785993	7.353401	7.386261	5.087829
862028	8.719080	5.609568	4.210256	12.916864	4.705098	5.029458	4.155618
86208	8.591928	4.299976	3.474082	14.057143	5.184355	8.004623	4.028621
86211	13.105663	7.245839	8.878591	15.688995	8.009175	7.708069	6.657146

862261	14.830836	9.258369	10.988403	16.398763	9.800203	8.698695	8.562181
862485	12.732769	7.145368	9.030253	15.292964	8.039063	6.776134	6.274516
862548	10.770125	5.722579	6.223332	13.671476	6.361098	5.505772	4.431042
862717	12.278301	5.699426	7.121216	15.564595	7.144694	7.465285	4.273839
862722	14.548695	11.004799	12.027800	14.752002	11.295304	7.820820	10.038785
862965	14.574880	7.323813	9.724501	17.133852	9.216731	9.036805	6.450545
862980	12.795308	8.028746	8.793427	14.314438	8.435141	6.058641	6.679036
862989	13.045466	8.212490	9.270500	14.750893	8.797243	7.311463	7.336692
863030	8.530912	8.970082	7.221117	10.204945	8.091135	2.701101	7.602215
863031	11.734124	7.478842	7.793617	13.505016	7.713969	5.112086	6.003720
863270	13.812629	7.008122	9.246808	16.365873	8.881585	8.013411	5.905833
86355	5.958259	12.593178	8.375335	13.020443	10.605016	11.996811	12.158269
864018	13.188208	7.599146	9.012727	14.945077	8.526416	6.740665	6.222098
864033	13.029849	9.029744	9.751361	14.208079	8.671294	7.083381	8.216288
86408	11.782752	7.756165	7.792872	13.864632	6.995723	6.672016	7.044019
86409	10.636815	10.217199	8.883736	13.114250	9.008391	8.752089	9.771990
864292	12.399838	9.068745	9.219459	13.425970	8.588992	6.422002	8.242449
864496	12.858342	9.306670	9.886410	13.512562	9.478706	5.530235	8.057369
864685	12.865911	6.904761	8.419790	15.174952	7.865881	6.717561	5.754364
864726	14.260946	10.908383	11.220484	15.809533	9.439023	9.464068	10.490252
864729	7.879403	6.545376	4.888951	11.175402	6.399217	2.946008	4.811693
864877	7.428291	7.571686	5.096372	10.553493	6.873263	4.074479	6.129780
865128	11.706166	6.748001	7.471241	15.090330	8.283281	9.540076	6.414726
865137	12.928864	7.477088	9.276486	15.430185	8.382674	6.830606	6.511936
86517	8.383547	3.708111	3.633312	14.021975	3.251482	6.680809	3.388419
865423	10.659625	15.399145	12.062008	15.680037	12.397866	15.033930	15.411630
865432	10.933792	5.824388	7.117803	14.549644	6.348027	5.991587	4.969745
865468	13.412085	6.662101	8.880095	16.711437	7.661672	8.468049	6.147443
86561	13.836741	6.297287	9.187675	17.125971	8.138083	8.574562	5.683626
866083	12.306988	6.212194	7.480998	14.812529	8.218807	6.787589	4.355439
866203	10.653023	3.320851	5.445088	16.423002	4.911637	9.112226	3.730243
866458	9.594235	6.351979	5.556177	13.072101	5.228205	5.512005	5.599520
866674	8.661494	5.166110	3.587982	13.765757	5.715435	7.179498	3.975207
866714	11.695407	7.280421	8.278406	13.557666	7.954932	5.602431	6.340171
8670	9.853230	4.427814	4.889610	14.237592	4.981285	5.690397	2.594634
86730502	10.152161	4.655888	5.197218	14.053819	6.194446	6.175714	2.910083
867387	11.439166	4.449516	6.647506	15.621532	5.722839	7.142150	3.869107
867739	10.238289	3.195903	4.837144	15.292618	4.976494	7.516568	1.814733
868202	13.267602	6.669710	8.423767	15.526714	8.102847	7.365257	5.419386
868223	13.950128	7.836424	9.654778	16.989088	8.344536	8.804366	7.191832
868682	13.548458	7.219095	9.153555	16.207233	8.396454	7.723392	6.267920
868826	8.900912	8.586947	6.570706	13.024254	6.725533	8.522622	8.187804
868871	12.762301	8.087354	8.841576	15.404584	7.479285	7.296358	7.413540

868999	14.605410	9.138423	11.244396	16.464196	10.203662	8.719731	8.555744
869104	9.641108	3.845827	5.065127	14.476303	4.475797	6.491650	3.101154
869218	12.989433	7.721352	9.005912	14.878806	8.482185	6.875887	6.658243
869224	11.953664	6.283682	7.887088	14.546731	7.666537	6.390918	5.159471
869254	14.718949	7.994401	10.461932	17.516040	9.092928	9.312698	7.452427
869476	11.173632	8.752576	8.810754	12.362904	8.233891	5.677605	8.176676
869691	9.698605	10.820466	8.691325	8.488295	10.733717	6.426852	9.673005
86973701	11.133406	6.748894	7.330062	13.871245	7.082425	7.460650	6.496595
86973702	11.089285	5.195513	6.494921	14.743289	5.879383	6.077508	4.115379
869931	13.968963	6.369416	9.240608	17.462505	8.280082	9.091237	5.873183
871001501	12.374393	7.484807	8.233032	14.690171	8.183005	7.423477	6.580361
871001502	12.590586	11.832091	11.094732	10.909988	11.468431	6.523962	10.791447
8710441	18.775900	21.422765	19.344314	18.108039	19.267111	18.471093	21.228959
87106	13.690904	7.918852	9.773764	16.003843	8.548436	7.917069	7.232030
8711002	11.137071	6.507200	7.350235	13.384312	7.031307	5.503566	5.405351
8711003	12.762598	6.644215	8.456988	15.163966	8.110179	6.986650	5.654475
8711202	8.122032	5.462493	3.529553	13.674111	3.648699	6.762665	4.848908
8711216	12.910264	5.329282	7.881646	17.375630	7.200406	9.656524	5.226796
871122	13.781814	7.143150	9.601495	16.613441	8.403096	8.033522	6.498764
871149	14.735846	7.962253	10.695064	17.505308	9.355910	9.318607	7.535131
8711561	11.308286	7.595909	7.653794	13.164820	7.480486	6.086835	6.536615
8711803	9.875867	5.257007	5.440390	16.280439	3.773138	9.907974	6.084779
871201	6.528890	5.186203	2.840969	13.634585	5.083117	7.420893	4.451268
8712064	12.622876	7.509181	8.416312	14.420695	7.749022	6.569093	6.504733
8712289	9.124959	3.607407	4.097584	15.649214	5.431355	9.643806	4.395268
8712291	14.245480	6.214958	9.128912	17.567476	8.327287	9.399689	5.683150
87127	14.417280	8.545145	10.796985	17.100836	9.085888	8.563898	7.955289
8712729	10.414801	3.446805	5.084639	15.271988	4.694200	7.603176	3.167585
8712766	8.613152	5.912146	4.703402	14.809007	5.205639	8.235823	5.347959
8712853	12.886053	5.517637	7.977481	16.545769	7.062738	7.979561	4.826239
87139402	12.642234	6.962044	8.574433	15.514787	7.432136	7.123055	6.233754
87163	12.127857	5.166305	7.239714	15.758296	6.760243	7.386852	3.932968
87164	7.662986	6.392504	5.150687	12.024077	5.550752	3.803409	5.183156
871641	14.315280	9.110863	10.534271	16.128534	8.800032	8.814058	8.790808
871642	14.860860	9.102071	11.132551	17.029761	10.003507	9.671063	8.584971
872113	15.092752	9.655672	11.643096	16.619941	10.424533	9.063675	9.059885
872608	12.979444	12.395117	11.378574	12.557934	11.097351	9.280690	11.989363
	84458202	844981	84501001	845636	84610002	846226	846381
842517							
84300903							
84348301							
84358402							
843786							

844359							
84458202							
844981	3.956471						
84501001	9.673092	8.397108					
845636	6.621034	8.330510	13.872870				
84610002	4.311160	5.004363	10.253706	5.287090			
846226	10.832879	11.679678	13.446005	13.228865	10.961766		
846381	6.500863	7.860154	13.783294	4.561025	5.328845	11.418434	
84667401	5.375376	4.158511	5.313421	9.700635	5.955097	10.970633	9.167437
84799002	4.700831	3.257461	6.811722	8.209437	4.966986	11.377416	8.211645
848406	5.063505	6.734957	12.835439	2.699527	4.114700	12.653354	4.365286
84862001	3.194330	3.359341	9.132202	7.388633	4.093156	10.759538	7.358575
849014	7.742213	8.899286	13.785778	6.646398	5.713379	11.765921	6.923625
8510426	5.568629	6.998756	13.615202	4.811246	5.087568	13.472590	4.208947
8510653	5.144261	6.227453	12.818384	5.027311	5.216171	13.630598	5.735048
8510824	6.650332	8.536026	14.460606	6.794415	7.574101	14.528777	6.378503
8511133	6.370342	4.857041	9.903826	9.843064	5.467307	10.079292	7.899964
851509	8.185610	9.443532	14.574986	5.979036	6.227672	12.489793	7.172039
852552	5.449792	6.275820	11.656678	6.912622	4.529673	11.454187	7.400002
852631	6.643727	6.901209	11.555743	10.982401	7.343151	8.971191	9.622940
852763	4.635746	3.015578	7.910627	7.706217	4.120228	11.772105	7.892152
852781	6.235201	8.354279	13.469011	5.766625	5.307990	9.896992	4.296102
852973	4.762441	3.789350	9.141095	6.626076	3.476252	11.379748	6.795336
853201	5.365236	7.091324	13.065135	4.784758	3.634332	11.169576	4.417665
853401	5.783549	6.091154	10.691218	7.525047	4.842284	9.386007	7.021285
853612	4.444826	3.466633	7.391881	8.591520	5.043394	11.722976	8.683023
85382601	4.581079	4.510313	10.637908	7.078474	4.528741	10.385943	6.174076
854002	6.098189	6.170195	10.045845	6.745248	3.784645	11.392467	7.177919
854039	4.630916	4.044001	9.205907	6.394854	2.493406	11.985079	6.969057
854253	5.667801	5.160889	11.263908	5.707724	3.201597	11.682022	5.332145
854268	4.095494	4.402441	10.082448	4.729070	2.771523	11.646404	4.602406
854941	8.473815	10.214574	15.969003	5.085691	8.147110	14.076012	5.637844
855133	8.891599	11.565281	16.905346	6.609410	8.999475	12.775791	6.719688
855138	4.326047	4.944243	10.376980	5.375553	3.876957	12.954203	5.783603
855167	6.973116	8.125936	14.200303	2.595257	5.771248	14.215489	4.667092
855563	3.945727	4.865834	10.745205	6.408254	5.959716	13.405357	6.803324
855625	10.326288	9.819781	11.411234	12.451367	8.757330	6.962872	10.429285
856106	3.174350	3.805409	10.387437	4.909025	3.051246	12.173520	5.538121
85638502	5.149444	5.371201	11.440854	4.210526	4.146291	13.851992	5.846994
857010	6.007731	5.697813	10.755442	7.954818	3.920249	10.700094	6.907586
85713702	7.548496	8.870134	14.639573	6.364672	7.911007	15.348428	6.428039
85715	3.267800	2.849257	9.229087	6.760266	4.010594	12.517934	6.854445
857155	5.783308	7.169942	13.240198	4.807881	5.639579	14.398173	5.683844

857156	6.214809	7.496224	13.673836	2.715510	5.479879	13.146368	3.794725
857343	7.595349	9.388525	15.306185	4.008677	7.264399	14.337833	4.902687
857373	7.545979	9.306678	14.768101	3.565743	6.568446	14.654721	5.435130
857374	7.019902	8.654006	14.808649	4.472469	6.793242	14.647074	4.989462
857392	5.278768	6.587047	12.696506	6.056233	4.628839	9.693465	5.648446
857438	5.994142	7.466667	13.418246	2.116922	4.880748	13.654673	4.483442
85759902	6.673622	8.030616	14.556228	5.019537	6.601393	14.001014	4.628793
857637	5.938055	6.989333	12.575365	6.345341	4.120619	10.858443	6.346932
857793	3.141942	3.451694	9.765608	5.349040	2.776317	10.994570	5.746304
857810	7.983378	9.964626	15.989372	4.400833	7.562784	14.639263	5.167566
858477	7.281782	8.668096	14.200162	7.634929	8.180847	16.087483	7.930400
858970	7.066657	8.331819	14.585276	8.404033	8.369889	13.375982	7.625535
858981	6.312988	7.834157	13.392134	7.600524	8.014927	13.734912	6.831217
858986	4.615416	5.195083	7.993530	8.687296	5.016469	9.437473	7.449481
859196	7.597236	8.903830	13.880822	8.168169	8.038482	11.976145	6.605882
85922302	2.878097	3.825643	9.787629	5.765716	3.944909	12.008384	5.903740
859283	3.118150	3.852801	10.674646	5.189923	3.880347	11.558105	5.234005
859464	5.654766	7.547144	12.765008	5.992428	7.200092	13.767900	6.313038
859465	7.413714	9.126450	14.995153	4.587857	7.127848	14.792189	4.700156
859471	12.882186	11.970366	11.939994	15.774874	13.136466	13.640743	13.435075
859487	7.223297	8.902247	15.229744	4.732575	6.984815	14.788017	4.907818
859575	7.421658	9.008434	14.691184	4.817967	5.343745	11.939995	5.420184
859711	9.929309	11.718186	13.419428	12.802109	11.494472	13.277610	11.466778
859717	5.411107	5.560056	7.855995	7.924973	4.113142	10.564167	8.062963
859983	4.600515	6.148824	11.804923	4.635419	4.094792	13.202121	5.656452
8610175	6.338165	7.948529	13.983511	3.771759	5.809900	14.040386	4.873000
8610404	5.831430	7.850517	13.908428	4.935038	4.896511	11.913737	3.652646
8610629	5.903975	7.670658	14.111818	8.104609	7.271890	13.411544	6.863367
8610637	6.070034	6.808140	10.798533	9.254136	5.010840	9.026945	7.973991
8610862	12.991180	11.710783	13.535566	16.511215	12.928481	9.712236	14.243810
8610908	5.540759	7.143163	13.305657	3.588465	5.258133	13.518028	4.533036
861103	4.703464	6.878949	12.381032	5.459509	6.502569	13.053750	5.918406
8611161	3.563421	3.668650	9.662396	6.479837	3.513624	11.797998	5.867563
8611555	10.570636	11.029610	12.998114	12.234954	9.622853	10.375039	11.654490
8611792	6.875990	8.254680	11.816016	8.689818	7.312673	7.580487	7.861024
8612080	5.609288	6.797701	13.207849	4.625760	5.496212	13.735851	5.091920
8612399	5.265878	6.582148	12.678481	5.272846	3.860300	10.277670	5.030175
86135501	5.323077	6.793336	12.760044	4.999032	5.083872	10.723953	2.905583
86135502	6.376276	6.580929	12.004647	5.135433	3.753484	11.467168	5.467616
861597	4.485913	6.203046	11.838115	3.928030	4.714465	12.058209	4.028948
861598	4.297189	5.485634	11.930397	6.093421	3.833755	10.848611	4.721719
861648	6.294774	8.056246	14.052484	2.306984	5.610931	13.018199	3.707047
861799	5.626140	6.973563	13.148127	4.426188	4.931320	12.030558	2.120169

861853	8.267713	10.146154	15.839744	4.051113	7.030152	14.541227	5.348993
862009	6.004603	7.658401	14.031812	3.463617	5.611805	13.527093	4.216935
862028	4.079702	5.054584	10.861317	6.173471	3.429482	10.938931	4.764315
86208	6.486402	7.319970	12.464260	5.865370	4.246338	9.590228	5.263547
86211	6.082187	8.183292	14.397835	5.058737	6.774498	13.005182	5.060339
862261	7.122206	9.586125	14.334161	6.180161	8.328876	14.626258	7.040469
862485	6.339346	7.850410	13.702477	5.299708	6.191527	14.741196	6.081472
862548	3.660281	5.617627	11.151646	4.286975	3.879213	11.299750	4.262443
862717	5.635881	7.192801	13.036430	2.504735	5.085347	12.720271	3.898611
862722	7.415007	8.994366	14.302140	8.577335	9.249374	15.858495	9.012602
862965	7.520911	9.031281	14.892612	3.482582	7.126830	14.627749	5.241660
862980	5.021184	6.554430	12.379065	5.579160	6.118325	13.712059	5.359807
862989	5.924590	7.609381	13.787321	5.721639	6.803446	13.160653	5.205514
863030	4.323415	4.407018	8.168787	9.221806	6.130635	12.229209	9.052371
863031	3.831402	5.701256	11.504691	5.460126	5.278930	12.718099	5.484322
863270	7.083570	8.219898	14.194540	3.631750	6.352751	14.867332	5.523216
86355	11.957779	11.284523	12.983761	15.177984	11.277095	9.640743	13.643159
864018	5.795512	7.351684	12.663041	4.657647	6.106321	14.503757	5.634040
864033	6.124173	8.168785	13.369104	6.947540	7.287276	13.534651	6.017365
86408	4.946386	7.178348	12.087307	6.451492	6.160526	11.008708	4.536232
86409	8.563961	9.007371	10.491135	10.259078	8.244880	9.083341	8.616380
864292	4.942586	7.191627	12.162127	7.249550	7.118066	11.992645	6.192493
864496	5.635968	6.927964	12.188166	7.398083	7.143202	14.816739	7.620380
864685	5.214438	7.256706	12.914545	4.135623	5.646453	13.833552	4.993749
864726	8.623894	10.549924	14.379657	9.634671	9.427125	13.753854	7.461458
864729	3.093934	3.153508	9.580968	7.009655	3.600103	11.699969	6.857152
864877	3.910587	4.042547	7.809853	8.236295	4.764556	10.687098	7.809681
865128	8.772182	8.979961	15.318746	6.354995	6.732780	12.451877	5.643138
865137	6.721188	7.942877	13.829822	5.839661	6.350427	15.352049	6.608043
86517	4.866793	6.809582	12.575853	5.639889	4.116269	10.122715	5.088299
865423	14.312460	14.769626	16.543516	17.636392	14.658855	11.219278	15.355791
865432	5.577146	6.795684	13.375523	5.411770	5.175585	13.084506	5.506719
865468	7.466211	9.020226	13.869562	4.556540	6.267152	13.721108	4.869349
86561	7.255778	9.018359	15.011024	3.464218	6.607316	14.838406	5.386074
866083	5.639073	6.348381	12.408276	3.110073	4.837386	13.658375	5.122616
866203	7.364709	8.873983	14.552781	4.559071	5.085709	11.123321	4.242367
866458	4.303673	5.951494	12.194842	6.646166	4.793667	10.658550	4.605544
866674	6.120936	6.097872	11.458937	6.393295	4.640644	10.629710	6.055446
866714	5.336233	6.624158	12.832528	5.717973	5.378657	13.578112	5.805374
8670	4.424404	5.660704	12.333759	4.459296	3.791194	12.310230	4.556583
86730502	4.557007	5.507000	12.222517	3.784355	3.502596	11.786155	4.387097
867387	6.063044	7.536826	14.054098	4.064735	4.815810	13.094924	4.228786
867739	5.869156	7.261586	13.084215	3.597000	4.143540	11.983948	4.682023

868202	5.867069	7.504453	13.214655	3.077846	5.795707	13.738174	4.474671
868223	7.040548	9.427107	14.669885	5.301073	7.479798	13.384616	6.001371
868682	6.817060	8.176489	14.472025	4.642763	6.503560	14.615632	5.307565
868826	7.502877	8.567133	13.926354	9.328802	7.326526	9.153929	6.730771
868871	6.137696	8.186505	14.135880	6.937015	7.003932	13.457426	5.645177
868999	8.268940	9.667093	15.620663	6.868498	8.426236	16.264652	7.675067
869104	4.499800	6.694508	12.755252	3.879888	3.672910	11.028152	3.970915
869218	5.499042	7.479564	13.326905	4.906829	6.322774	13.271876	5.534916
869224	5.835179	6.840118	13.175203	4.159085	4.886379	13.756920	4.864549
869254	8.233315	9.986733	15.494950	5.071116	7.664441	15.178698	5.881657
869476	5.106820	7.103851	12.017415	7.883093	6.668981	12.308547	7.064815
869691	7.547520	5.826902	10.971817	10.364642	7.548713	11.272880	8.814032
86973701	6.111973	7.807445	12.193139	5.529543	5.288262	9.705196	4.461410
86973702	5.294550	6.596232	12.881740	4.539467	4.328706	12.848755	4.325054
869931	7.926383	9.452284	15.124869	3.597075	6.662659	14.711220	5.319767
871001501	5.889700	7.213492	14.345904	5.840899	6.633387	12.925816	4.979612
871001502	6.652520	7.445026	8.455565	10.231083	8.603959	12.761813	9.677014
8710441	18.634477	18.874299	17.715169	21.806422	19.624456	15.454767	19.576283
87106	7.194028	8.735690	15.151645	5.955393	7.306841	15.131558	5.831564
8711002	5.311535	6.236070	12.502828	5.122235	4.637359	13.185347	4.651729
8711003	5.907695	7.269990	13.452550	3.933977	5.607276	13.773620	4.722864
8711202	4.920679	6.623923	11.950723	6.801714	4.578287	9.223763	5.187406
8711216	7.751479	9.442658	15.105902	3.630371	6.227438	12.273446	4.309505
871122	7.237601	8.899030	14.851027	4.917496	6.875275	15.247339	6.059735
871149	8.425858	10.153761	15.795845	5.312325	7.826413	15.911229	6.637583
8711561	4.645813	6.356417	12.480057	5.677767	5.580666	11.443899	4.389826
8711803	8.366902	10.055058	15.470299	7.646395	6.704883	10.551860	5.458699
871201	6.892438	6.960570	11.961613	7.887657	5.075181	10.755988	7.784548
8712064	4.823162	7.199998	12.175677	5.038347	5.919172	12.651585	4.900682
8712289	8.381392	9.230386	13.764131	7.037135	5.725290	11.154316	7.233232
8712291	8.079082	9.518866	15.619313	3.058744	6.861802	14.651469	4.824854
87127	8.126971	9.855054	15.471076	6.817557	8.195412	16.392268	7.524777
8712729	5.701117	7.509914	13.544996	3.655834	4.049791	10.924665	3.059790
8712766	6.335709	8.039856	12.001545	7.038906	5.628736	9.707425	6.974191
8712853	6.451597	8.238891	14.692309	3.478524	5.856603	13.774051	4.554538
87139402	6.383607	7.885391	14.561408	5.729412	6.412675	14.368211	5.321764
87163	5.814072	7.540139	13.636001	2.462759	4.904898	13.284086	4.110536
87164	4.628882	4.784324	10.799497	7.541361	4.497408	11.867222	7.122245
871641	7.619636	9.842432	15.133520	7.332836	8.440077	14.085390	6.159374
871642	8.537047	10.171979	16.223686	6.467532	8.589068	15.171324	6.614505
872113	8.366874	10.010937	15.661924	7.013139	8.834373	16.143737	7.485592
872608	8.851007	10.204098	11.364471	11.500106	9.936468	10.396746	9.746225
	84667401	84799002	848406	84862001	849014	8510426	8510653

842517								
84300903								
84348301								
84358402								
843786								
844359								
84458202								
844981								
84501001								
845636								
84610002								
846226								
846381								
84667401								
84799002	3.493097							
848406	8.512477	7.143747						
84862001	5.006063	3.921838	5.705192					
849014	9.962276	8.583423	5.591139	6.494381				
8510426	8.973083	8.228175	3.540792	6.836243	7.798419			
8510653	8.257808	7.521939	4.405425	6.602593	8.896644	3.104515		
8510824	10.148142	9.937088	5.991568	8.888351	10.702629	3.619957	4.006750	
8511133	5.895098	6.160323	8.414148	5.532788	9.111935	7.755404	7.813479	
851509	10.720347	9.022920	5.695746	7.092379	2.523701	8.087897	8.815702	
852552	7.956537	6.216396	5.306953	3.710746	3.771102	7.274503	7.685222	
852631	8.107431	7.720061	9.498989	5.653712	8.706906	9.630439	9.854677	
852763	3.900162	2.992190	6.494000	3.615675	8.166561	7.307686	6.699627	
852781	9.256732	8.420102	4.752006	6.444575	4.461639	5.969040	7.462869	
852973	5.173249	3.248166	5.282551	3.115802	6.073158	6.976135	6.739835	
853201	8.408242	7.743365	3.716776	5.681371	5.240100	3.984925	4.778832	
853401	7.029213	5.525719	6.401659	3.969457	4.749874	8.122144	8.388882	
853612	4.381314	3.425632	7.313471	4.467190	9.537657	7.631229	6.712942	
85382601	6.476678	4.911254	5.443471	3.141909	5.557141	6.633574	7.024142	
854002	6.431091	4.891251	6.098620	4.409519	5.026466	7.838103	7.709154	
854039	5.183140	4.015120	5.321755	3.597527	6.907586	6.085275	5.498819	
854253	7.199362	5.420710	4.582446	4.727604	6.009172	5.516756	6.004085	
854268	5.685072	4.404755	3.566892	4.490443	6.845274	4.313321	4.346297	
854941	11.651779	10.989774	5.589713	10.102181	9.971666	5.199906	5.618077	
855133	12.859193	11.779481	6.734717	10.471819	8.789736	7.663386	8.472841	
855138	5.890658	5.427160	3.857514	4.834207	7.234955	4.299284	4.355690	
855167	9.851602	8.476932	3.481900	8.030578	8.063855	3.973717	3.967250	
855563	6.790204	5.906615	4.701914	5.335081	8.852429	5.183923	4.967682	
855625	9.246869	9.032300	11.676407	9.217994	9.972129	12.502544	12.848520	
856106	5.913738	4.646714	3.547679	3.781976	7.201919	4.140963	3.400896	

85638502	7.232937	5.842804	3.347025	5.597103	7.607397	4.253127	3.623802
857010	6.703438	6.043910	6.270658	4.195508	5.056537	6.915087	7.582074
85713702	10.562946	9.929317	6.269802	9.583761	11.359723	4.463159	4.367140
85715	5.057650	4.051598	4.975959	3.534104	8.030043	5.134011	4.908653
857155	8.905835	8.176190	3.896816	7.229444	8.666333	2.539844	2.346555
857156	9.210453	7.990405	2.950843	7.407414	7.742999	3.614351	4.003312
857343	11.002706	9.991966	4.647305	9.307202	9.402733	4.359243	4.641144
857373	10.443838	9.803481	4.306249	8.941153	8.873846	3.984698	4.180117
857374	10.396473	9.456697	4.748175	8.749064	9.560795	3.142354	3.509497
857392	8.296331	7.252773	5.074655	5.082313	5.602765	5.997395	6.138143
857438	9.044306	7.675035	1.826941	6.699617	6.333913	3.768643	4.332009
85759902	10.188741	9.091911	4.794876	8.359759	9.519181	3.121710	3.824742
857637	8.538102	7.125943	4.922894	4.604227	2.793343	6.619401	7.440278
857793	5.273274	4.001083	4.072700	3.310205	6.818098	5.213758	4.559625
857810	11.645412	10.522846	5.277544	9.727934	9.609001	4.419778	4.893440
858477	10.353164	9.991846	6.815242	9.219720	11.626362	4.746884	4.685869
858970	10.605849	9.752673	7.903522	9.116996	11.867572	6.128708	5.691865
858981	9.604811	8.997516	6.673674	8.624457	11.173199	5.781659	5.770059
858986	4.073297	4.743732	7.207704	4.474598	7.759244	7.900922	7.941020
859196	10.005330	9.873514	7.925256	9.616308	11.825817	6.308535	6.426215
85922302	5.592123	4.231201	3.940539	3.565575	7.078476	5.118609	5.199047
859283	6.108862	4.759487	3.576186	3.400787	6.615376	4.818906	4.678243
859464	8.959402	8.315538	5.401601	7.998537	10.438230	5.069538	4.963736
859465	10.661197	9.862680	4.581498	9.077771	9.368650	3.383285	4.606607
859471	10.939899	12.038828	14.578612	13.059750	15.842848	13.946336	14.164806
859487	10.730323	9.933006	4.464414	8.806853	9.127551	2.707796	3.849302
859575	10.354553	9.055603	4.408576	7.026871	3.042460	6.311769	7.257261
859711	10.678429	12.088851	12.327202	11.958144	14.891318	11.172772	10.995564
859717	4.602849	3.790230	6.957087	4.096308	6.470671	8.517951	8.227617
859983	7.287567	6.921608	3.582192	5.691770	7.514305	3.308405	2.719827
8610175	9.543151	8.735334	3.690356	7.949422	8.650187	2.752392	2.775119
8610404	9.442936	8.320335	3.469473	6.396598	4.912131	4.076902	6.082188
8610629	9.689111	9.365239	6.900963	7.730171	10.069251	4.608102	5.087029
8610637	7.066717	7.016921	7.959500	5.164983	6.819344	8.286625	8.630281
8610862	11.994979	11.972655	15.344816	11.471020	13.863993	15.678888	15.816836
8610908	8.827482	7.963235	3.246887	7.158146	8.312583	2.542967	2.276478
861103	8.443636	7.585235	4.637420	6.945272	9.364382	4.789082	4.573279
8611161	4.974803	5.024212	4.922856	4.366725	8.167540	4.294256	3.962623
8611555	10.433508	10.296653	11.303531	8.538300	7.249616	12.996532	13.431882
8611792	8.135027	8.237573	7.907123	6.832574	7.784839	9.305337	9.513686
8612080	8.890417	7.804391	4.055265	7.238329	9.009648	2.624721	2.470921
8612399	8.444045	6.894863	4.168462	4.716209	4.409737	5.472645	6.307509
86135501	8.340167	7.330969	4.041486	6.469186	7.142139	4.212514	5.458172

86135502	7.970084	6.125444	4.648221	5.150946	4.356197	6.379810	6.795958
861597	7.471037	6.597873	3.483918	6.290447	8.207679	3.607332	3.734932
861598	7.132668	6.755744	4.782848	5.379193	7.434474	3.701468	3.882579
861648	9.566809	8.369450	3.328387	7.644000	7.690261	3.991295	4.007734
861799	8.390606	7.662390	3.554746	6.441784	6.684387	3.304517	4.790347
861853	11.437275	10.709025	4.507668	9.519678	8.348109	4.363258	5.325326
862009	9.520263	8.532731	2.966048	7.473659	7.926329	2.648086	3.204852
862028	6.108743	5.788140	4.252057	4.055534	5.636996	4.601675	5.572169
86208	8.466893	6.888498	5.487090	5.616002	4.370521	7.036492	7.592525
86211	9.879117	9.264412	4.747634	8.199099	9.399970	3.599559	3.577430
862261	10.560435	10.157651	6.101403	9.521668	10.888386	5.814938	5.772673
862485	9.387487	8.935200	4.670597	7.903256	9.411539	2.811109	2.775633
862548	6.656728	6.002156	3.020899	5.031889	6.881016	3.867445	4.325982
862717	8.737316	7.342579	2.176082	6.612156	6.605061	4.296201	4.718693
862722	10.732566	10.365880	7.955172	9.790121	12.835126	6.449473	5.541644
862965	10.703962	9.504624	4.313076	9.032276	9.319545	4.499002	4.706192
862980	8.095919	7.523704	4.577158	7.111266	9.479716	3.378820	3.617813
862989	9.480992	8.623626	5.458875	8.156790	10.148954	4.017902	3.666370
863030	4.641145	5.418971	7.367094	4.354503	9.264375	7.428903	7.003283
863031	7.260210	6.691392	3.844381	5.881297	8.486132	3.687302	3.943745
863270	9.893424	8.899084	4.068281	8.403906	9.135789	3.794153	3.306669
86355	11.194795	11.096824	13.742213	9.924523	10.469717	14.720701	15.050189
864018	8.684222	7.780737	3.965555	7.347113	8.911865	3.957361	4.269124
864033	9.353161	9.190278	6.114946	8.405771	10.458712	4.708075	5.207616
86408	7.679797	7.892402	5.474485	6.990782	8.874795	4.898158	5.689237
86409	7.196292	8.767067	9.786619	8.890952	10.831706	9.798442	9.662165
864292	8.002394	8.186891	6.454797	7.584525	10.510666	5.471894	5.152302
864496	8.292998	8.236747	6.168376	7.699151	10.825572	4.819454	4.222334
864685	8.600778	7.755048	3.654832	7.178664	8.565016	3.343297	3.352273
864726	10.562767	11.338824	8.913732	10.681223	12.058425	7.393358	8.203973
864729	5.183765	4.383599	5.037112	2.113200	6.794451	5.461871	5.491912
864877	4.014242	3.466154	6.574784	2.470879	7.008812	7.601277	7.572073
865128	11.265928	9.496774	6.541198	8.680567	8.178754	6.708715	7.429377
865137	9.590393	9.104330	5.045555	8.165959	9.663994	2.929150	3.075717
86517	8.235909	7.227629	4.146976	4.667548	4.186420	5.271808	6.337211
865423	14.737833	14.847659	16.348998	13.377287	13.760268	16.798541	17.599065
865432	8.714637	8.280493	4.225343	6.608711	8.044349	2.497231	2.554442
865468	9.557917	9.314996	4.852739	8.783991	8.738388	4.306332	4.834184
86561	10.600597	9.631385	4.115024	8.696246	8.761448	3.642801	3.525421
866083	8.256451	6.493413	2.747075	6.273945	7.290908	4.466244	4.216550
866203	10.209251	8.864455	4.601392	7.455803	4.821099	5.672247	6.678671
866458	7.240979	7.394790	5.218081	5.536813	7.614977	4.039522	4.751387
866674	7.302050	5.781285	5.664141	4.613347	4.896658	7.199188	7.331544

866714	8.463700	7.938119	4.934326	7.080121	9.445580	2.919333	2.346865
8670	7.711985	6.461549	2.579401	4.528384	5.301507	3.454145	4.263596
86730502	7.706661	5.945278	2.891444	4.733607	5.784770	4.247907	4.260567
867387	9.292560	8.565281	3.346925	6.927463	6.979756	2.127627	3.329197
867739	8.859914	7.198931	2.746261	5.456622	3.643255	5.158166	5.935224
868202	9.038931	7.857763	2.936352	7.335098	8.166726	3.721518	4.179535
868223	10.565111	10.124697	4.828088	8.999921	9.188542	5.028643	5.613837
868682	9.994857	9.280446	4.368805	8.465063	9.374381	2.799691	2.897557
868826	10.090044	9.513045	7.862167	7.798603	8.214661	7.801713	9.034322
868871	9.592703	9.639610	5.746078	8.277286	9.686639	3.608387	4.664728
868999	11.543358	10.813633	6.927845	10.146149	11.731199	4.860789	4.252749
869104	8.267351	7.157741	2.676432	5.218159	5.220559	3.812557	4.531803
869218	9.077785	8.488522	4.305449	7.612552	9.362219	3.838309	3.520634
869224	8.725324	7.828790	3.753840	7.031719	8.480417	2.431126	2.210842
869254	11.268807	10.700547	5.465520	9.992762	10.175167	4.342541	4.738986
869476	7.862450	8.173649	7.078746	7.366525	10.589922	5.571352	4.959285
869691	7.761176	7.302030	9.343532	7.583601	11.663494	8.604360	8.272255
86973701	7.979447	7.862645	5.657342	7.456480	8.492005	5.653891	5.786090
86973702	8.110231	7.662530	3.232536	6.285496	7.101817	2.013119	3.033286
869931	10.743712	9.897664	4.568143	9.193002	8.796288	4.277937	4.226539
871001501	9.880967	8.443905	5.256512	7.581356	9.230652	4.059266	4.188451
871001502	6.397294	7.193686	9.504259	8.462493	12.864055	9.055371	8.462114
8710441	17.268676	18.755742	20.915675	19.184459	21.533175	20.449861	20.731370
87106	10.748978	10.057309	5.444717	9.004102	10.176755	2.844150	3.620776
8711002	8.140306	7.304991	4.122910	6.461309	8.364369	2.344676	3.164569
8711003	9.072941	8.039468	3.897726	7.519097	8.913697	2.806523	2.561969
8711202	7.494155	6.982596	5.397510	4.895873	5.091590	6.188310	6.971574
8711216	10.749217	9.596650	4.540195	8.674224	7.265390	5.352378	5.896874
871122	10.499987	9.884263	4.775183	8.880486	9.613500	3.088970	3.306754
871149	11.641591	10.942146	5.716718	10.101036	10.459498	4.369828	4.696980
8711561	8.171199	7.362097	4.746811	6.607300	8.797202	4.056170	4.388091
8711803	11.094727	10.522012	6.867761	8.376225	5.729323	6.946537	8.693337
871201	8.220034	7.047116	6.559361	4.756384	3.918907	8.027045	8.444632
8712064	7.975884	7.625641	4.393811	7.008574	8.793687	4.375881	4.627613
8712289	10.009610	8.686403	6.778443	6.994587	3.459283	8.500787	9.250892
8712291	11.178010	10.036085	4.280275	9.217637	8.567565	4.252751	4.584840
87127	11.257051	11.028855	6.324285	9.846785	10.788599	4.312670	4.553028
8712729	8.976279	7.868379	3.057276	6.269384	5.146829	4.010746	5.247843
8712766	8.311353	7.540224	5.984682	5.740652	4.213047	8.133801	8.616822
8712853	10.058566	9.100515	3.414453	7.807927	7.818304	2.855609	3.308842
87139402	9.958974	9.334896	4.797559	8.013018	9.207794	1.687105	3.072154
87163	9.314531	7.971540	1.530763	6.823316	6.547183	3.153620	4.161971
87164	6.376349	6.331141	5.668670	4.115785	7.175163	5.320399	5.264507

871641	10.935131	10.921299	6.843780	9.858813	10.988252	5.018893	6.033457
871642	12.084744	11.178412	6.710441	10.441913	11.257547	5.241400	5.376849
872113	11.634608	11.070356	7.111675	10.465478	11.993120	5.260853	4.934786
872608	8.813334	10.242222	10.861362	10.531141	13.239747	10.332064	10.460317
	8510824	8511133	851509	852552	852631	852763	852781
842517							
84300903							
84348301							
84358402							
843786							
844359							
84458202							
844981							
84501001							
845636							
84610002							
846226							
846381							
84667401							
84799002							
848406							
84862001							
849014							
8510426							
8510653							
8510824							
8511133	9.571591						
851509	11.002659	10.046697					
852552	9.896130	7.373897	4.509991				
852631	11.382111	5.526041	9.488737	6.597027			
852763	9.267384	5.342864	8.546178	6.037557	7.347898		
852781	8.197649	8.238753	5.346882	5.577945	8.181933	8.252687	
852973	9.380681	6.069970	6.644218	4.114556	7.573147	3.246735	6.643093
853201	6.471258	6.937013	5.739588	5.358100	7.838091	6.911088	3.860625
853401	10.657255	6.627468	5.458764	3.550063	5.921356	5.856852	5.126201
853612	8.724816	5.380632	10.122540	6.813962	7.413421	3.821392	8.920174
85382601	9.099096	5.949747	6.245513	3.815066	6.079076	5.212212	5.134179
854002	10.484256	6.954243	5.396653	4.110296	7.831925	4.902752	6.383459
854039	8.417730	5.290743	7.203850	5.018088	7.433465	2.798381	7.138279
854253	8.433084	5.674585	6.434285	4.789525	7.921247	4.955102	5.947257
854268	6.547147	6.094762	7.282458	5.666271	8.443578	4.171809	5.775133
854941	5.117433	11.249765	9.730873	10.333607	12.986568	10.356611	7.495875
855133	8.069403	12.406947	8.892851	9.679874	12.065134	11.633139	6.267622

855138	6.238773	6.986239	7.816695	6.150316	9.112637	4.430526	6.693387
855167	5.691997	9.604884	7.610363	7.996060	11.406571	7.707933	7.037365
855563	6.000761	8.397511	9.211250	7.043364	9.759383	5.905129	7.555393
855625	14.500695	7.389515	10.981260	9.429294	8.125213	9.594283	9.484909
856106	6.074597	6.165534	7.430084	5.268564	7.955795	3.900643	6.445927
85638502	6.323645	7.850758	7.607556	6.394904	9.948985	4.905106	7.345157
857010	9.709288	4.796540	6.454382	4.103417	6.201812	5.518701	5.681931
85713702	2.945804	10.272195	11.382904	10.498841	12.562958	9.495938	9.055986
85715	6.889019	5.763219	8.560836	5.766532	7.692864	3.300365	7.402220
857155	3.566022	8.811868	8.834596	7.836734	10.758555	7.556574	7.170748
857156	5.358640	9.046098	7.472615	7.650950	10.767375	7.282229	6.178807
857343	4.412806	10.718766	9.233771	9.400685	12.389042	9.595389	7.225298
857373	4.687465	10.417629	8.654537	9.099990	12.287336	8.905955	7.304250
857374	3.357580	9.758435	9.389284	9.167926	11.585491	8.803144	7.590460
857392	8.160425	6.819613	5.825070	4.877868	6.510324	6.986980	4.170211
857438	6.132297	9.215875	6.082889	6.392001	10.568086	6.962170	5.768266
85759902	3.575923	9.072624	9.494098	8.835684	11.012139	8.641204	7.268518
857637	9.514406	7.105153	3.549390	2.344136	6.776548	6.573175	4.250211
857793	7.156614	5.730238	7.064378	5.003952	7.222765	3.239409	6.151845
857810	4.713123	10.955170	9.205322	9.650200	12.303424	10.088268	7.350049
858477	3.021687	10.198473	11.900063	10.336559	12.315587	9.503814	9.671264
858970	5.319759	8.988031	11.834803	10.256607	10.169580	9.596109	9.297894
858981	4.721636	9.866506	11.463898	9.855795	11.608922	9.288448	8.419382
858986	9.285903	5.818298	8.981796	6.293828	6.862820	5.371290	6.547762
859196	5.349554	8.652479	12.031302	10.908441	10.823337	9.549817	8.607662
85922302	6.883319	6.907120	7.616829	5.063120	8.162263	4.298751	6.247567
859283	6.871223	6.717062	6.852855	4.901483	7.836028	4.498772	5.667463
859464	4.210308	9.936875	10.517818	9.279156	11.569610	8.290317	7.946569
859465	3.638626	10.343830	9.441348	9.332155	12.239477	9.343127	7.152595
859471	14.166053	10.699633	17.141330	14.793326	13.618616	12.825032	14.060504
859487	3.280546	10.039815	9.131806	9.023122	11.831741	9.307055	7.045120
859575	9.006988	9.171373	3.173301	5.003031	9.138718	8.368986	3.981283
859711	9.870034	11.640673	15.512689	13.756651	12.493739	12.497090	12.025460
859717	10.658290	6.673502	7.113109	4.920785	7.437333	4.422708	7.014496
859983	4.881325	7.629952	7.761986	6.614077	9.415056	5.876946	6.502835
8610175	3.653257	9.281432	8.543586	8.332941	11.141070	7.945790	6.902962
8610404	6.670931	8.182849	5.674616	5.423997	8.572457	7.836103	2.993016
8610629	4.679562	8.213589	10.347157	8.808648	8.993479	8.962588	7.578414
8610637	10.300818	4.972995	7.955866	5.464928	4.351843	6.680696	6.396136
8610862	17.338561	9.593188	14.795605	12.449807	9.441854	12.617567	13.234519
8610908	3.750601	8.727021	8.238023	7.731525	10.596885	7.327679	6.496798
861103	4.650414	9.408101	9.392965	8.144509	10.622582	7.673294	6.933287
8611161	5.817679	5.056238	8.793083	6.530538	7.897556	4.116030	6.774694

8611555	15.442226	10.558668	8.112887	7.864594	8.781955	10.304738	8.766597
8611792	10.714467	8.933740	8.291150	7.608576	8.414704	8.547920	5.991312
8612080	3.790431	8.305454	8.898863	7.987365	10.336794	7.192340	7.176659
8612399	8.224056	6.665908	4.554042	3.786034	6.564140	6.390487	3.670734
86135501	6.105889	7.481289	7.444269	6.903058	8.890636	7.116505	4.212508
86135502	9.396044	6.918257	4.378323	4.250746	7.927641	5.612069	5.357303
861597	4.668665	7.891346	8.262045	7.374670	9.649875	6.181746	6.027692
861598	5.474357	5.344137	7.990866	6.365000	7.092576	6.071945	5.547027
861648	5.400271	9.465583	7.294172	7.701783	10.886948	7.970725	5.895378
861799	5.511555	7.585222	7.113941	6.867123	9.386319	7.110714	4.491742
861853	5.390980	10.844563	8.229019	9.094116	12.316816	9.740231	6.757443
862009	4.162377	9.173055	7.839875	7.666800	10.852060	7.939626	6.023260
862028	6.976914	5.684855	6.783374	4.909245	7.109664	5.111839	4.455507
86208	9.798575	6.980593	4.340929	4.616934	7.210614	6.759053	4.021106
86211	2.964908	9.380230	9.374467	8.906368	10.709809	8.692410	6.841611
862261	4.281964	11.617828	10.916262	10.338375	12.895146	10.084477	8.224061
862485	2.892198	9.071779	9.582956	8.652939	11.138435	8.069927	7.766277
862548	5.637197	7.326745	7.111794	6.148200	8.706625	5.449771	4.851423
862717	6.096612	9.121106	6.549646	6.531145	10.354609	7.080726	5.227419
862722	4.098054	11.055334	12.898603	11.218645	12.674141	10.215108	10.490132
862965	5.183788	10.759374	8.846945	9.240706	12.409152	8.900405	7.546115
862980	3.409099	8.666870	9.726474	8.382973	10.555514	7.180410	7.332641
862989	3.389208	8.938159	10.089060	9.130596	10.615163	8.416897	7.489781
863030	8.342660	6.529640	10.203732	6.983568	7.632781	5.360014	8.491384
863031	4.350124	8.096697	8.867435	7.216995	9.669467	6.403529	6.440567
863270	4.671369	9.921030	8.842706	8.814220	12.027684	8.073601	7.833569
86355	16.926556	9.551220	11.750965	9.723232	7.767107	11.500778	11.235656
864018	4.525069	9.588599	9.116342	8.089509	11.510374	7.601244	7.290876
864033	3.277879	9.368881	10.927515	9.540284	11.227369	9.139187	7.511842
86408	4.941622	8.042244	9.481487	8.397132	9.517525	7.714730	5.625382
86409	10.418083	7.971366	11.713690	10.519724	9.978298	8.917903	8.746623
864292	4.193003	8.660589	10.873057	9.355155	10.117268	8.229069	7.449192
864496	3.532550	9.064874	11.308660	9.300852	11.181628	7.872455	9.073781
864685	3.930872	9.306881	8.612682	7.824972	10.841374	7.508534	6.722507
864726	5.991353	10.626618	12.918184	11.843051	12.647030	11.296665	8.837280
864729	7.634795	5.290362	7.464971	4.314262	6.375783	3.621986	6.459894
864877	9.442384	5.890180	7.988694	4.779726	6.386881	4.210155	6.755154
865128	9.071075	8.421526	7.819642	8.074958	10.125529	9.038653	7.151046
865137	3.421068	9.177065	9.842150	8.836780	11.400640	8.151523	8.283489
86517	7.785184	6.959639	4.843693	3.941854	6.623691	6.795522	2.635349
865423	18.406047	13.255131	14.830866	13.403787	11.008032	15.581708	12.674255
865432	4.184333	7.422773	8.278419	7.325742	9.251990	7.170923	6.508957
865468	5.145332	9.675462	8.868733	9.168998	11.898490	8.609610	6.753949

86561	4.516115	10.389848	8.360213	8.739812	12.001953	8.903376	7.272378
866083	6.493599	8.769855	7.049753	6.513825	10.528119	6.068091	6.792932
866203	8.325861	8.494007	4.666114	6.131901	9.042281	8.333864	3.732903
866458	5.514236	5.965905	8.270610	6.822911	7.325616	6.656188	5.184378
866674	9.945439	6.812367	4.928921	4.543535	7.232949	5.631366	5.288964
866714	3.382272	7.706171	9.579684	8.178497	9.947331	7.226880	7.572590
8670	6.325438	7.133363	5.668207	4.466493	7.989459	5.827810	4.638406
86730502	6.959351	7.092653	5.465397	4.773272	8.092700	5.376772	5.073261
867387	4.852612	7.992259	6.973771	6.989675	9.565435	7.389621	5.549518
867739	8.035739	8.328310	3.533042	4.102810	8.842324	6.849188	3.758554
868202	4.882762	9.589074	8.042873	7.765772	11.266195	7.546096	6.407805
868223	4.736521	10.954684	9.337933	9.261787	12.062053	9.693193	6.550348
868682	3.207878	9.542858	9.307231	8.985445	11.568224	8.405043	7.564941
868826	9.096764	7.150563	9.487228	7.692127	7.425045	9.521382	5.778245
868871	3.000800	9.013283	10.160168	9.185242	10.531840	8.956061	6.963466
868999	3.564425	10.818034	11.562965	10.809563	12.754777	10.200581	9.821900
869104	6.092514	7.348355	5.499950	4.861636	7.862290	6.663538	3.284963
869218	3.488304	9.389509	9.366742	8.520107	11.030203	8.087177	6.983364
869224	4.106399	7.940018	8.471153	7.682962	10.299725	6.878237	7.016779
869254	3.916706	11.020721	10.121950	10.231830	13.025706	10.044134	7.995204
869476	4.744126	7.778044	10.997101	9.071942	9.303001	8.151756	8.096285
869691	9.577870	4.927701	12.110002	9.567065	8.252714	7.024047	10.162581
86973701	6.519454	7.639077	8.701214	8.287898	9.491272	7.748710	5.566250
86973702	4.481486	7.342967	7.498519	6.829331	9.345377	6.535894	5.681967
869931	5.252787	10.448318	8.485774	9.126019	12.341892	9.119994	7.391724
871001501	4.915533	8.414308	9.049041	8.144309	9.558401	8.174872	7.034031
871001502	8.436188	9.118927	13.357579	10.968462	10.999861	8.071465	10.548731
8710441	20.212156	17.461805	22.626181	20.732556	17.956158	19.570916	19.248357
87106	2.216999	9.705162	10.243039	9.555232	11.676267	9.345036	8.017006
8711002	4.214189	7.011296	8.677686	7.303841	9.521964	6.724631	6.538185
8711003	3.756882	8.673074	8.742230	8.200007	10.655757	7.350805	7.112528
8711202	8.310862	6.636631	6.108598	4.866585	6.330174	6.911044	3.072026
8711216	7.136207	9.871457	6.746452	8.152313	11.015783	8.955406	5.378234
871122	3.190568	10.123543	9.532764	9.267444	12.000115	9.008382	7.915705
871149	3.997914	11.185776	10.316662	10.275142	13.060222	10.144385	8.633610
8711561	4.526631	7.544810	9.128707	7.649443	9.117719	7.402288	5.915281
8711803	9.151603	8.422004	6.773546	7.198184	8.391504	9.869308	4.013995
871201	10.852288	6.716047	4.802961	3.322393	6.285054	6.506940	5.745345
8712064	4.435397	9.120299	9.044061	8.125478	10.646227	7.622126	6.172702
8712289	11.479339	8.589424	3.330106	5.159630	8.419556	8.058188	5.539076
8712291	5.658089	10.638674	8.033085	8.991231	12.416065	9.331742	7.111728
87127	3.174001	11.009151	10.980468	10.371985	12.914214	10.218432	9.031690
8712729	6.617901	7.642624	5.237117	5.646769	8.406368	7.165680	3.175398

8712766	10.124386	8.696095	5.431936	4.648672	7.801380	7.702799	4.119225
8712853	4.564934	9.468650	7.483180	7.831238	10.823336	8.250375	6.150679
87139402	2.587570	8.681796	9.369865	8.568630	10.487374	8.427493	7.245360
87163	5.311411	9.043272	6.548831	6.407901	10.343046	7.424810	5.270566
87164	7.185432	5.259284	8.062233	5.575078	6.736642	5.405380	6.603054
871641	3.323743	10.540787	11.301549	10.737474	12.246268	10.529174	7.761335
871642	4.438881	11.134643	11.017180	10.820188	12.903539	10.738153	8.678117
872113	3.227698	11.290025	11.928376	11.234991	13.226299	10.633364	9.682713
872608	9.662908	9.959106	14.061151	12.336412	11.606165	10.891321	10.163452
	852973	853201	853401	853612	85382601	854002	854039
842517							
84300903							
84348301							
84358402							
843786							
844359							
84458202							
844981							
84501001							
845636							
84610002							
846226							
846381							
84667401							
84799002							
848406							
84862001							
849014							
8510426							
8510653							
8510824							
8511133							
851509							
852552							
852631							
852763							
852781							
852973							
853201	5.992044						
853401	3.995064	5.784453					
853612	4.895685	7.555378	6.918368				
85382601	3.475307	5.374121	2.705661	6.144110			
854002	3.254968	5.734444	3.766701	6.423436	4.670982		

854039	3.257757	5.170237	5.314927	4.017500	4.841862	3.751074	
854253	3.606930	5.001392	5.053808	5.719099	4.319526	4.459913	3.653800
854268	3.523557	4.511064	5.580134	4.823610	4.449957	4.885282	3.320584
854941	9.796773	6.707483	10.560044	10.681967	9.513960	10.532473	9.343074
855133	10.383874	7.105118	9.725187	11.908112	9.564427	10.528464	10.737794
855138	4.503349	4.933549	6.812827	5.658163	5.626739	5.644540	3.997335
855167	7.121085	5.360888	8.591447	8.552030	7.700854	7.744921	6.642857
855563	5.565346	6.803576	7.714353	6.076884	5.834248	7.762186	6.089775
855625	8.808908	10.244385	7.462860	9.716054	8.645713	8.573251	9.588003
856106	3.758167	4.510581	5.940755	4.335407	4.709204	5.237545	3.017149
85638502	4.648323	5.324157	7.261485	5.992805	6.099514	5.930952	4.073374
857010	4.305623	4.853012	4.065903	6.435417	3.957976	4.086240	4.319441
85713702	9.438630	7.494314	11.106042	8.922766	9.610885	10.649781	8.671493
85715	4.063639	5.879703	6.423865	3.661748	4.801552	5.957729	3.335984
857155	7.186375	4.929725	8.761804	7.478915	7.382175	8.122934	6.231615
857156	6.644356	5.065139	7.971060	8.214298	6.913807	7.615499	6.533790
857343	8.827383	6.104213	9.895655	9.674428	8.872218	9.556647	8.490916
857373	8.536089	5.376449	9.806785	9.423158	8.970706	8.849572	7.576532
857374	8.585193	5.774602	9.842940	8.819866	8.604851	9.262231	7.669131
857392	5.783706	3.463357	4.185078	7.415016	4.024321	5.824411	5.655141
857438	5.957749	4.431043	7.344107	8.103917	6.470353	6.469147	5.855823
85759902	8.228453	5.862203	9.418746	8.359497	7.977220	9.271853	7.571640
857637	4.851159	4.188742	3.767848	7.628620	4.080415	4.303886	5.203011
857793	3.239208	4.578652	5.021908	4.347724	4.016603	4.737021	2.749592
857810	9.444812	6.168528	10.130256	10.111404	9.171188	9.846831	8.790613
858477	9.675037	7.769318	11.479233	8.486109	9.810492	10.863665	8.566544
858970	9.858037	7.939037	10.521305	8.249514	9.079894	11.064915	8.925597
858981	8.819360	8.010116	10.203774	8.356489	8.425458	10.570814	8.926030
858986	4.806200	6.538507	5.156073	5.495818	4.942804	5.621821	5.640583
859196	9.902554	7.811185	10.518119	8.518933	9.421748	10.999367	9.059269
85922302	3.462377	5.588095	5.736226	4.855404	4.202122	5.535860	4.336393
859283	3.447847	4.845612	5.150906	5.602346	3.454099	5.330535	4.262513
859464	8.086524	7.385675	9.732687	7.809923	8.165763	9.695434	7.995468
859465	8.720977	6.059592	9.963282	9.485252	8.686507	9.544169	8.299416
859471	13.099869	14.061597	13.632961	11.532446	12.876613	14.183285	13.177862
859487	8.713740	5.459450	9.808570	9.450444	8.413116	9.457267	8.021666
859575	6.638158	3.606169	5.737265	9.619252	6.188417	5.722505	6.837965
859711	12.957321	11.390983	13.299111	11.054487	12.480030	13.478820	12.238619
859717	3.531676	6.619455	4.142349	5.516044	4.867738	2.887432	4.070375
859983	5.876044	3.805956	7.472910	6.443609	6.472340	6.419610	4.545628
8610175	7.642876	4.867858	8.991228	8.269742	7.837399	8.408828	6.774499
8610404	6.398153	3.387703	6.138969	8.551730	5.427350	6.583243	6.690055
8610629	8.953653	6.064771	9.275350	8.347840	7.535553	9.843784	7.965772

8610637	6.279813	5.691210	4.951432	6.825316	5.651546	5.620618	5.785639
8610862	12.110435	13.991654	10.669572	12.269094	11.077798	12.520961	12.947252
8610908	6.900383	4.583269	8.343315	7.597442	7.103352	7.810135	6.176802
8611103	7.193929	6.561194	8.526110	7.301577	6.967055	8.735263	7.279696
8611161	4.653582	4.877004	6.669696	4.298833	5.217951	6.158633	3.589607
8611555	8.986520	9.868037	6.431940	11.880804	8.170512	7.524277	9.997846
8611792	7.452220	7.211348	6.062408	9.296732	6.149555	7.763308	8.357752
8612080	7.079846	5.364082	8.613193	7.079462	7.140990	8.281758	6.178216
8612399	5.138699	3.470134	4.037440	7.055406	3.863368	5.078014	5.002230
86135501	6.185843	4.810264	6.420591	7.613870	5.215951	7.292144	6.570245
86135502	4.155930	4.584217	4.139719	7.058021	4.448226	3.364527	4.176229
861597	6.009672	5.060752	7.450941	6.506287	6.278814	7.214940	5.724801
861598	5.940787	3.083048	6.426684	6.138755	5.301132	6.655119	4.909788
861648	7.067521	4.674453	7.988765	8.597880	7.171089	7.512786	6.840466
861799	6.157634	3.862138	6.862498	8.039113	5.634819	6.792074	6.244192
861853	9.066576	5.283640	9.807730	10.392788	9.146996	9.299441	8.403952
862009	7.136628	4.583764	8.349112	8.359475	7.066523	8.078281	6.784797
862028	4.170417	3.727279	4.904975	6.250583	3.753775	5.075125	4.567148
86208	5.152274	4.542168	3.364768	7.779340	4.275909	4.285828	5.487059
86211	8.478777	5.380988	9.329579	8.632535	8.055359	9.410259	7.827208
862261	9.672080	7.646564	10.834249	9.619480	9.563082	10.697899	9.347355
862485	8.069841	5.318582	9.637621	7.879277	8.331384	8.845523	6.784861
862548	5.031358	4.269630	6.158413	6.308272	4.971687	6.187518	4.990635
862717	5.751736	4.775073	6.859788	7.916653	5.957627	6.690266	6.272838
862722	10.445555	8.983439	12.019086	8.848525	10.332365	11.899930	9.591468
862965	8.391908	6.533383	9.702104	9.448067	8.613223	9.323331	8.080540
862980	7.114813	6.160480	8.852242	7.147956	7.188535	8.640808	6.826605
862989	8.270002	6.265508	9.315948	7.886187	7.886454	9.469153	7.719860
863030	6.035624	7.220513	7.260780	4.743521	5.994950	7.327208	5.345695
863031	6.120967	5.573499	7.819368	6.411495	6.137470	7.817102	6.063710
863270	7.736975	5.863182	9.512789	8.595492	8.380464	8.607445	7.020728
86355	10.522518	12.009828	8.116815	11.913032	9.345695	10.110250	11.463434
864018	6.973067	6.226257	8.943349	7.534960	7.545929	8.155884	6.833082
864033	8.786947	6.780017	9.969280	8.231774	8.450698	9.993270	8.391159
86408	7.410045	5.671842	8.074491	7.795020	6.784986	8.482082	7.449743
86409	8.989010	8.485206	8.778134	8.844166	8.832058	9.135863	8.781422
864292	8.277708	6.803998	9.242777	7.514241	7.766458	9.557121	7.975888
864496	8.200703	7.191520	10.286909	6.990247	8.581869	9.666040	7.364147
864685	6.983204	5.304020	8.542971	7.635694	7.239390	7.901492	6.623973
864726	11.015338	8.536938	11.750388	10.709405	10.553862	11.813676	10.736297
864729	3.518165	5.126889	5.070026	4.357583	3.610090	5.063059	3.235820
864877	3.666732	6.504440	4.333042	4.552933	3.658075	4.596128	4.395080
865128	8.044298	6.521461	8.046108	9.296362	7.590288	8.302453	7.647039

865137	8.233959	5.741593	9.995008	8.026921	8.594161	9.072149	6.839356
86517	5.518847	2.939126	4.240676	7.403223	3.884737	5.403694	5.484673
865423	14.500392	14.622787	11.606582	15.480893	12.181151	14.218103	15.384298
865432	7.123097	3.637390	8.074500	7.369270	6.774148	7.846901	5.718731
865468	8.201992	5.267021	9.259900	9.154718	8.474507	8.493898	7.444317
86561	8.368232	5.291883	9.558338	9.318605	8.561585	8.767789	7.520018
866083	5.073188	5.562965	7.278735	6.976581	6.169369	6.342117	5.356320
866203	6.964691	3.454655	5.969728	9.214689	6.231857	6.287969	6.760954
866458	6.445960	3.771835	6.745664	7.168046	5.466823	7.217986	5.941586
866674	4.046762	5.204541	2.801857	7.369420	3.052697	3.660935	4.851325
866714	7.403887	5.144571	8.976151	6.699243	7.528952	8.409955	5.967214
8670	4.637599	3.106427	5.279657	6.808569	3.993061	5.359947	4.578188
86730502	4.223048	3.880897	5.093921	6.500613	4.134428	5.052235	4.323700
867387	6.978763	2.910988	7.711836	8.222222	6.684466	7.293159	5.886808
867739	4.933342	3.535384	4.804178	7.903356	4.561450	4.681091	5.326782
868202	6.769719	5.639275	8.350125	7.982718	7.077754	7.880176	6.760034
868223	9.003512	6.192586	9.697060	9.817651	8.647306	9.955812	8.846809
868682	8.204163	5.524116	9.674403	8.716677	8.312386	9.197242	7.357729
868826	8.404326	6.626135	7.328928	8.992374	6.913330	9.117990	8.828024
868871	8.810712	5.711312	9.690309	9.007651	8.139780	9.859134	8.201102
868999	10.319969	7.524385	11.714431	9.459584	10.349584	11.106049	8.904133
869104	5.497013	2.119076	5.294078	7.043506	4.761303	5.691870	5.224185
869218	7.714909	5.810681	9.088977	7.912279	7.687081	9.018701	7.305545
869224	6.729160	4.634388	8.434698	7.036738	7.225589	7.595030	5.559708
869254	9.608457	6.457774	10.793629	10.062118	9.742419	10.255732	8.818033
869476	8.433858	6.327126	9.355701	6.841758	8.071424	9.232895	7.313543
869691	7.857019	9.125843	9.009509	5.940081	7.868648	9.541429	7.270719
86973701	7.353910	4.990992	7.499002	7.559896	7.108387	7.642758	6.747260
86973702	6.244701	3.146802	7.494393	7.335355	6.273979	6.926748	5.314588
869931	8.557810	5.361883	9.682116	9.662095	8.930449	8.757411	7.684123
871001501	7.791568	5.939777	8.495108	8.014980	6.940311	8.979487	7.462580
871001502	8.994786	10.090893	10.406312	6.318731	9.293474	10.334706	8.551363
8710441	19.948169	19.889049	19.254812	18.352218	19.002914	20.523612	19.976657
87106	9.169440	6.129943	10.454267	9.041410	8.907580	10.107178	8.156844
8711002	6.454596	4.640750	7.959028	6.328620	6.489600	7.439153	5.340666
8711003	7.246977	5.211433	8.733906	7.472278	7.474653	8.184873	6.343596
8711202	5.504160	3.743835	3.902874	7.669005	3.711929	5.523442	6.080510
8711216	8.009097	4.884009	7.983613	9.818522	7.720652	8.026103	7.754672
871122	8.862926	5.645862	10.233577	9.089643	8.979300	9.520299	7.659965
871149	9.905851	6.671279	11.192046	10.013910	10.140999	10.437137	8.754501
8711561	6.825734	5.362378	7.614708	6.767991	6.177556	8.226477	6.739036
8711803	8.671428	4.547879	7.132394	10.550087	7.417328	7.967352	8.527829
871201	5.033754	5.363117	3.166069	7.690273	4.081869	4.254984	5.234959

8712064	7.071988	5.739002	8.341235	7.608913	7.014882	8.142067	7.051262
8712289	6.684204	5.582566	5.155704	9.586156	6.381798	4.693231	6.586531
8712291	8.534543	5.561796	9.559943	10.009053	8.677070	8.870108	7.933029
87127	10.096146	6.789698	11.506196	9.971322	10.145242	10.742232	8.883651
8712729	6.082401	2.473991	5.769082	8.049216	5.390301	6.111096	5.852053
8712766	5.780763	5.286402	3.890827	8.543109	5.063025	5.236593	6.913054
8712853	7.645899	4.268190	8.535415	8.967506	7.431560	8.168283	6.966474
87139402	8.332441	5.072572	9.497569	8.439215	7.934141	9.232042	7.250560
87163	6.275934	4.191781	7.388265	7.934288	6.422201	7.048897	6.199684
87164	5.399817	4.394098	6.032064	5.590466	4.795906	6.162776	4.165673
871641	10.285390	7.203681	11.086544	10.117583	9.625275	11.179889	9.674604
871642	10.360216	7.544576	11.238606	10.264330	9.971811	11.251288	9.625905
872113	10.587189	7.910122	11.942511	9.881047	10.545055	11.487493	9.535041
872608	11.092038	10.332130	11.391050	9.585258	10.672009	11.938929	10.867303
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855133	9.785494	8.774980	6.496251				
855138	4.985070	2.755147	7.460523	9.299263			
855167	6.076439	4.704437	4.641840	7.191012	5.099389		
855563	6.338382	4.273221	7.556850	9.331103	3.972188	6.198439	
855625	8.895025	9.876381	14.560594	13.878267	11.456947	13.188484	12.666633
856106	3.823400	2.196178	7.340562	8.956710	2.707126	4.796689	3.792645
85638502	4.500012	2.884309	6.922033	9.075644	2.700040	3.619119	4.269943
857010	4.085266	5.147850	10.474572	10.677583	5.691247	8.494532	7.653299
85713702	8.260137	6.520314	5.023568	8.713214	6.740953	4.956289	6.302831
85715	4.537647	3.124154	8.752838	10.442697	3.019124	6.569930	3.553324
857155	6.347234	4.496965	5.227765	7.947790	4.195386	3.825346	4.709329
857156	5.737264	4.164428	4.075913	6.686199	4.721035	1.691844	5.346497
857343	7.659472	6.144140	2.956171	6.029262	6.522347	3.224917	6.695370
857373	7.485957	5.808550	3.783506	7.138466	5.592485	2.861660	6.886386
857374	7.228580	5.646412	4.197931	7.406126	5.805380	3.018404	6.379189
857392	5.250297	5.332808	7.843456	7.692440	6.417099	6.926861	7.141764
857438	5.331083	4.025755	5.420232	7.036777	3.941399	2.357541	5.256805
85759902	6.538700	5.433873	4.388219	7.567141	6.085489	3.957253	5.996762
857637	4.405730	5.620593	9.443757	8.966062	6.302314	7.534499	7.599343
857793	3.958769	2.482237	7.805631	9.019552	3.370281	5.589818	4.514215
857810	7.998812	6.725626	3.577933	6.219891	7.274007	3.614971	7.544707
858477	8.645294	7.030668	6.876644	10.061856	6.606622	6.609745	6.066939
858970	8.548230	7.594108	7.324768	9.605924	8.424678	7.563862	7.549031
858981	8.267442	6.634590	6.323442	8.706302	7.188025	7.114856	4.999201
858986	6.546609	5.198764	10.661940	10.355089	5.750632	9.107788	6.591058
859196	8.617964	7.204517	6.372316	9.210520	8.289841	7.376927	8.086747
85922302	4.515892	2.849463	8.095603	9.053291	3.103292	6.020175	2.633965
859283	4.202217	2.945889	7.431621	8.627220	3.534228	5.571019	3.239075
859464	7.733772	5.651976	5.361836	8.188884	5.951577	5.643012	4.069223
859465	7.469140	5.848075	3.761198	6.934351	5.913434	3.587658	6.174969
859471	13.147356	12.154148	15.908749	17.133214	12.975500	15.398791	13.301252
859487	7.337374	5.923457	3.589994	7.066258	5.876299	3.796792	6.165365
859575	5.939897	6.297555	7.927576	6.789758	6.699977	6.096100	8.498904
859711	13.003883	11.159485	12.550142	13.416939	11.394934	12.784403	11.306001

859717	5.699260	5.137726	11.168259	11.159592	5.798046	8.818985	7.401538
859983	5.718237	3.684068	6.227571	8.324201	2.673349	4.338015	4.815541
8610175	6.655798	4.789938	3.843825	6.947979	4.812479	2.381806	5.596974
8610404	5.348914	5.070799	6.898892	6.030606	5.539617	5.498005	6.487562
8610629	8.021900	6.937287	7.557176	9.242102	7.141780	7.618216	6.623862
8610637	6.322541	6.852091	11.621347	10.812160	7.505448	9.947686	9.137861
8610862	12.280797	13.557597	17.964187	17.826715	14.898292	17.127398	15.112269
8610908	5.978174	4.100171	4.079561	7.042862	4.287809	2.652569	4.787625
8611103	7.083071	5.041158	5.455875	7.630333	5.525130	5.430589	3.433655
8611161	4.681021	2.793834	7.704383	9.814748	2.931398	6.097266	4.230204
8611555	10.385389	10.946682	15.172649	13.581390	11.337972	13.673905	12.727278
8611792	8.261063	7.688749	9.900310	9.711612	8.492208	10.090159	8.544310
8612080	5.819705	4.227885	4.874941	8.008610	4.856513	3.342542	4.785173
8612399	3.859496	4.737425	7.965634	7.950155	6.007072	6.346809	6.975891
86135501	5.170907	4.067212	5.526028	6.688431	5.534816	5.074241	5.468280
86135502	3.204749	4.303286	8.868487	9.244337	5.472117	6.029609	7.541259
861597	5.510667	3.162176	5.029751	7.295539	3.956022	3.539797	4.199653
861598	5.085704	3.951313	7.045072	8.167022	4.576920	5.787653	5.861493
861648	6.156859	4.699355	3.927545	6.056164	5.291411	2.291666	5.998300
861799	5.230902	3.972443	5.516147	7.127811	4.402476	4.393730	5.605984
861853	7.913632	6.593717	3.854302	6.003221	6.511619	3.459675	7.762817
862009	6.069118	4.597623	3.569050	6.453311	4.899652	2.864696	5.035991
862028	4.536130	3.412864	8.071737	8.447651	3.483020	6.351487	5.134864
86208	4.244150	5.300415	8.922970	8.546663	6.943344	7.083041	8.285819
86211	7.611723	5.788613	3.334698	6.295863	5.922735	4.338752	5.816933
862261	9.305782	7.135564	4.709185	7.348833	7.120770	6.099980	6.025271
862485	7.047136	5.285972	5.255523	8.398758	4.740956	4.246489	5.618121
862548	5.093821	2.844996	5.829637	7.462907	3.436384	4.607597	3.843653
862717	5.460125	3.834140	5.060367	6.143301	4.470150	2.918740	4.848119
862722	9.876145	8.077922	7.124063	10.272158	8.017929	7.744533	6.360885
862965	7.414166	5.779259	3.424075	6.866885	6.210047	2.290216	6.193031
862980	6.780836	4.370914	5.528528	8.108170	4.267184	4.571698	3.387851
862989	7.294115	5.496562	4.619471	7.400957	6.238501	4.657960	5.550785
863030	7.263048	5.756216	10.644599	11.844354	5.177927	9.401551	5.428576
863031	6.082898	3.846041	5.927344	7.926659	3.798496	5.198533	2.301881
863270	6.790958	5.100828	4.252965	7.741700	5.115418	1.862511	5.834680
86355	11.473349	12.530945	17.466496	15.981733	13.444528	16.036260	14.323797
864018	6.506382	4.476589	5.690336	8.163076	4.286745	4.213771	3.966799
864033	8.029051	6.222931	5.780393	8.246513	6.440351	6.574142	5.583276
86408	7.290218	5.158793	6.102137	7.455517	5.520692	6.504713	5.342552
86409	9.461210	7.839726	10.924128	11.809246	8.584879	10.484772	10.006825
864292	8.219415	5.949708	6.332224	8.286889	6.238689	6.957980	5.207879
864496	7.988059	5.824071	7.227635	9.892379	4.980067	6.556905	4.380551

864685	6.590130	4.345982	5.093698	7.121446	4.188162	3.580793	4.222745
864726	10.597588	8.595515	8.345810	9.534862	8.634302	9.231759	8.625310
864729	4.379730	3.705181	9.278376	10.268355	3.721289	7.211272	4.399748
864877	5.637175	4.726950	10.804399	11.016997	5.029097	8.844912	5.725872
865128	5.176934	6.786351	7.782055	9.495361	8.484528	6.567027	9.319152
865137	7.113575	5.529273	5.905129	9.048577	4.914525	4.620265	5.774424
86517	4.864576	4.962185	7.809423	7.477716	5.723409	6.762758	6.640242
865423	14.827488	15.583354	18.917396	17.096524	16.682619	18.690439	16.597658
865432	5.984287	4.750945	5.530053	8.179600	4.536817	4.768187	5.714389
865468	7.415989	5.313571	4.532994	7.395440	5.385128	3.838920	6.960221
86561	7.323981	5.761550	3.845595	6.927577	5.715655	2.459197	6.515250
866083	4.724371	3.347763	6.131144	8.102262	3.899672	2.774999	4.417917
866203	5.529412	5.723535	6.914398	6.423521	6.911626	5.412618	8.490630
866458	5.976564	4.800342	7.059028	8.115400	4.917319	6.591091	5.731937
866674	4.657455	4.873768	9.438769	9.568039	6.075746	7.188287	7.395648
866714	6.139182	4.717084	5.780659	8.881932	4.901084	4.929310	5.295774
8670	4.253391	3.370267	6.853838	7.620390	3.539741	4.695517	4.672741
86730502	3.603096	3.144161	6.729404	7.674317	4.394563	4.073012	5.099027
867387	5.612434	4.655359	4.992500	7.253036	4.625431	3.589656	6.245893
867739	4.165189	4.381543	7.184000	7.235995	5.235491	5.024159	6.399424
868202	6.082134	4.200254	4.377285	7.053272	4.581299	2.863196	4.358112
868223	8.502647	6.588945	3.364459	5.500557	6.629037	5.367715	6.116957
868682	7.145000	5.379593	3.814389	7.402857	5.275372	2.997412	5.708496
868826	7.260938	7.777906	9.761442	8.773858	8.841412	9.764963	9.104097
868871	8.111766	6.347256	5.543323	7.452852	6.035281	6.242559	5.833084
868999	8.914990	7.469887	5.762546	9.310974	7.485803	5.495570	7.553962
869104	4.694313	3.951861	6.067162	6.164098	4.761813	4.689095	5.765595
869218	7.097936	5.188576	3.860894	7.166312	5.376374	4.538794	4.436915
869224	5.278753	3.995528	5.077251	8.193197	4.309011	2.984107	5.419863
869254	8.421573	6.674581	3.432623	7.063438	6.759257	3.943736	7.246580
869476	8.000293	6.229758	7.845536	9.735550	6.370533	7.646319	6.359085
869691	6.786534	7.189553	10.942716	13.221938	8.561367	9.917294	8.568496
86973701	6.407993	4.924370	5.911182	7.777679	6.296285	5.987630	7.265460
86973702	5.382188	3.768486	5.455465	7.635044	3.328696	3.890434	5.250026
869931	7.443261	5.907770	3.980329	6.933235	5.965788	2.459113	7.348164
871001501	6.511589	5.617100	5.610856	7.468325	6.516890	4.961528	5.843193
871001502	9.607113	7.310354	10.660315	12.564001	7.871500	10.040913	7.032271
8710441	20.201157	19.087811	21.641366	21.725263	19.884297	21.952069	19.905215
87106	7.679160	6.326812	4.648377	8.091832	6.297496	4.678791	6.324863
8711002	4.652933	3.637209	5.945609	8.721877	4.389833	4.510471	5.109917
8711003	6.108788	4.297485	4.433183	7.577324	4.734594	2.416453	5.260849
8711202	5.752150	5.272078	8.659515	7.542218	6.048844	7.607131	6.913283
8711216	6.811024	5.983884	4.547657	5.536620	7.000273	3.867051	7.999306

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8711561	5.886716	4.429717	5.524774	7.324219	5.599014	5.471218	4.793772
8711803	7.271394	7.768805	8.975757	7.488776	8.353429	8.397180	10.040294
871201	5.265070	6.368628	10.828989	10.482543	7.060717	8.840328	8.651436
8712064	6.969818	4.626149	5.255908	7.289119	4.789660	5.177941	4.167198
8712289	5.913354	7.265960	10.574514	10.013376	8.039348	8.508900	10.169995
8712291	7.087847	6.024181	3.374165	6.831230	6.395739	2.321969	7.276572
87127	9.116083	7.394708	5.698957	8.834759	6.592697	5.787013	7.098096
8712729	4.812450	4.395399	5.752824	6.048795	5.351671	4.402035	6.698987
8712766	6.866502	6.425713	9.794929	7.662129	6.956018	8.426384	8.048270
8712853	6.585919	5.251258	3.775413	6.387276	5.320908	2.828105	5.997385
87139402	6.928906	5.616760	5.091762	7.947570	5.424370	4.529082	5.853925
87163	5.265649	4.076663	4.791185	6.276227	4.489832	2.622289	5.115055
87164	5.517778	4.736964	8.941552	10.231890	4.493532	7.555809	5.928797
871641	9.273991	7.545949	4.787405	7.958487	7.597846	6.927166	7.141796
871642	8.867931	7.654265	3.971493	7.774742	8.264900	5.442363	7.807050
872113	9.421879	7.715129	5.275232	8.920385	7.731954	5.816892	7.459192
872608	11.123394	9.323098	11.087352	12.355899	10.065197	11.733718	9.908433
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856106	10.706896							
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857010	7.853356	5.484723	6.684627					
85713702	14.747675	6.249933	6.000329	10.517694				
85715	10.838993	2.412357	3.709151	5.466857	7.367491			
857155	13.506057	4.086109	3.738396	7.811421	3.953890	5.284999		
857156	12.519990	4.453281	3.727756	8.048088	4.941768	6.054827	3.907130	
857343	14.033392	6.183947	5.647445	9.839294	3.588585	7.875857	4.017144	
857373	14.190981	5.801611	4.906029	9.243533	4.526714	7.442700	3.457867	
857374	14.036503	5.437661	4.992967	9.336358	2.766372	6.925187	3.177161	
857392	9.211702	5.201200	6.573523	5.042562	8.915213	6.302443	6.688860	
857438	12.568547	4.125178	3.108157	7.185585	6.072581	5.682339	3.803535	
85759902	13.218376	5.265260	5.282512	8.923932	2.783585	6.549528	3.670798	
857637	9.039762	5.578202	6.569773	3.610007	10.238081	6.274544	7.638061	
857793	9.712671	1.969621	3.469195	5.062830	7.536561	2.831773	5.406595	
857810	14.327576	6.715284	6.339659	10.130691	3.993465	8.390383	4.441334	
858477	15.385744	6.340897	6.364566	10.270518	3.163659	6.835666	3.983655	
858970	13.390703	6.965177	8.036193	10.300047	5.435791	7.621052	6.500323	
858981	13.545121	6.471012	7.096367	10.066821	4.500400	6.941780	5.564224	
858986	7.876029	5.704378	7.258804	5.192756	10.036283	5.551764	8.149317	
859196	12.278937	7.347295	8.269374	10.294319	5.190137	8.148882	6.907637	
85922302	10.587851	2.551075	3.636239	5.691038	7.149197	2.534574	5.196659	
859283	10.453290	2.489690	3.650055	5.455798	7.188670	3.205612	5.148444	
859464	13.716417	5.444984	5.680415	9.810938	3.713013	6.142376	4.631768	

859465	14.166082	5.999322	5.413557	9.465674	2.999100	7.331843	3.418805
859471	12.402303	13.150683	14.214311	12.600675	14.630326	12.428502	14.247400
859487	14.256794	5.828263	5.397816	9.060053	3.493398	7.119363	2.801116
859575	10.798297	6.454557	6.632797	5.960701	9.600472	7.954430	7.139459
859711	14.202274	11.169237	12.468816	12.930753	10.651089	11.370351	11.225832
859717	7.987163	5.553678	6.689556	4.686306	11.019166	5.633297	8.599995
859983	12.256322	2.986708	3.133347	6.441341	5.700391	4.302617	2.689987
8610175	13.463756	4.654350	4.056835	8.460305	3.660456	6.200975	2.168318
8610404	10.857078	5.386043	5.865137	5.799617	7.476622	6.444289	5.508637
8610629	13.126752	6.333091	7.517797	8.437412	6.200325	6.666114	5.436651
8610637	6.854927	6.747254	8.520975	4.028286	11.316563	6.965242	9.210413
8610862	7.229266	13.821280	15.670140	11.073589	17.780145	13.461048	16.740665
8610908	12.882733	3.898286	3.566715	7.878495	3.735234	5.486987	1.883988
861103	13.056467	4.789591	5.306727	8.900062	4.642598	5.588865	4.388550
8611161	10.368209	2.538429	3.950372	5.290135	6.479322	2.519122	4.526203
8611555	9.108120	11.288080	12.385243	7.695407	16.380960	11.476981	13.747628
8611792	8.924988	8.060190	9.384976	7.560665	11.479266	8.503430	9.934271
8612080	12.867506	3.957815	3.885798	8.076239	3.408374	5.144161	2.497238
8612399	9.108675	4.774744	5.942325	4.505052	8.796408	5.751678	6.684160
86135501	10.298762	4.938814	5.625156	6.756250	6.350944	5.865309	5.423630
86135502	9.135041	4.792755	5.185959	4.334409	9.482490	5.893663	7.157093
861597	11.554027	3.420520	3.720643	7.561361	4.452030	4.734567	3.838686
861598	9.923460	3.781056	5.178969	5.254360	6.596760	4.661478	4.607790
861648	12.498234	4.812701	4.422482	8.233808	4.978233	6.712857	3.994423
861799	11.071656	4.561769	4.829247	6.374748	5.959261	5.766505	4.673290
861853	14.212926	6.722445	5.962827	9.353404	5.600924	8.360565	4.400204
862009	12.979414	4.555781	4.182546	7.969373	4.223688	6.064288	2.578789
862028	9.489741	3.830669	4.916020	3.813854	7.942664	4.206554	5.542376
86208	7.706859	5.916116	6.875168	4.719379	10.003186	7.017720	8.060651
86211	13.466313	5.458020	5.711952	9.091879	3.973474	6.778255	3.715537
862261	15.055437	6.974671	6.973805	10.954332	4.221990	8.016324	5.011850
862485	13.978712	4.715736	4.427678	8.490202	3.402806	5.876770	1.813520
862548	10.845731	3.264556	3.964312	6.277374	6.144535	4.169032	4.355404
862717	11.953769	4.224794	3.783895	7.408095	5.871351	5.865969	4.269134
862722	15.840625	7.235883	7.677545	11.571303	3.999640	7.746639	5.513818
862965	14.267308	5.898606	4.955777	9.900111	4.181566	7.422281	4.230567
862980	13.161343	4.251393	4.329168	8.450924	3.497594	4.919070	3.025384
862989	13.023250	5.272281	5.742532	9.283900	3.027961	6.480600	4.016705
863030	11.325036	5.244911	6.764178	6.222619	9.568731	3.948657	7.206206
863031	12.306311	3.657954	4.205194	7.431096	5.017280	4.023853	3.497126
863270	14.072432	4.936929	3.707268	9.082718	3.851826	6.566280	2.933353
86355	7.139833	12.853825	14.448710	8.598836	17.889498	12.543680	15.588407
864018	13.507620	4.434338	3.875484	8.503072	3.910627	5.435007	3.107685

864033	13.243949	6.107588	6.780703	9.399322	3.671396	6.827317	4.711801
86408	11.399791	5.568407	6.513767	7.942024	5.983183	6.216631	5.646153
86409	9.412865	8.770341	9.891398	8.706113	11.034845	9.214174	10.010613
864292	12.586643	5.775016	6.862605	9.189892	5.123583	6.405784	5.485491
864496	14.216086	5.099770	5.391082	9.134389	4.360057	5.253419	3.849260
864685	13.178259	4.167083	3.875738	8.267486	3.863847	5.483446	2.504308
864726	13.852305	9.007411	9.645710	10.911032	6.982967	9.587566	7.679735
864729	10.029321	2.990861	4.641251	4.094269	8.427553	2.237940	5.867820
864877	8.941556	4.817659	6.405092	4.412469	10.167315	4.101401	7.828236
865128	10.533009	7.109409	7.452997	7.897916	8.455396	8.338066	7.937218
865137	14.316698	4.992813	4.495744	8.558074	3.859528	5.873223	1.934275
86517	9.475139	5.046670	6.293559	4.351706	8.814776	5.810598	6.424093
865423	10.726798	15.988982	17.774393	12.641004	19.410619	15.721297	17.930909
865432	12.546408	4.178026	4.609921	6.731716	5.519201	5.225886	2.850552
865468	13.180015	5.970565	5.386250	8.661344	5.183713	7.386883	4.052137
86561	14.308047	5.550794	4.734607	9.172033	4.317499	7.258857	2.948145
866083	12.258388	3.379118	2.161834	7.348185	5.839263	4.911363	4.156652
866203	10.111321	6.334965	6.651181	6.256498	8.688125	7.843770	6.715765
866458	10.376066	4.629301	6.005065	5.717701	6.999169	5.255988	5.263511
866674	8.837386	5.411700	6.195033	4.482979	10.251098	6.195748	7.870113
866714	12.673002	4.036605	4.562295	7.817021	3.756169	5.005931	2.824584
8670	11.077732	3.160508	3.721668	4.865857	7.030971	4.263145	4.075129
86730502	10.492112	3.031174	3.564363	5.538342	7.026636	4.606655	4.823486
867387	12.328790	4.463563	4.411303	6.689539	5.693482	5.882815	3.308992
867739	10.602894	4.670186	4.874178	5.239318	8.285479	6.054913	5.757464
868202	13.068256	4.418533	3.749712	8.401837	4.270161	5.766572	3.461241
868223	14.107753	6.713105	6.622513	9.728367	5.503748	7.838679	4.650651
868682	14.075281	5.147295	4.499167	8.981323	3.225830	6.502347	2.300853
868826	8.361249	8.035368	9.550788	6.874672	10.068191	8.435298	9.126857
868871	13.541243	6.139356	6.616652	8.722127	4.990005	6.791147	4.219564
868999	15.693543	6.837428	6.587320	10.892079	2.880780	8.002906	4.020539
869104	10.364580	3.879342	4.839463	5.428381	6.822686	5.437803	4.562590
869218	13.316150	4.848456	5.040420	8.886403	3.697029	6.009945	3.266650
869224	12.570436	3.576373	3.249990	7.498777	3.739240	5.168911	2.409027
869254	14.825945	6.756524	6.095088	10.275197	3.321058	8.256530	3.683454
869476	12.131291	5.676396	7.089670	8.530417	5.805006	6.207022	5.541726
869691	9.368464	7.072423	8.549923	8.278924	9.440984	6.735518	9.424578
86973701	9.795152	5.698017	6.620922	7.576101	6.642376	6.982171	6.124917
86973702	11.958060	3.727154	3.737719	6.178716	5.516508	4.893892	2.838789
869931	14.059385	6.007526	5.049415	9.226297	4.899442	7.805077	3.668881
871001501	12.506878	5.248225	5.860798	8.514238	5.025858	6.296336	4.877526
871001502	12.493004	7.536295	8.680998	10.503007	8.379814	7.057169	8.663434
8710441	17.375435	19.882289	21.264887	19.157113	21.147138	19.347510	20.911499

87106	14.510272	5.926672	5.792064	9.456766	2.555371	6.988629	3.010598
8711002	11.749276	3.539260	4.017096	6.731322	4.157652	4.532717	3.037420
8711003	13.027119	4.093434	3.720794	8.345705	3.210414	5.607459	2.637356
8711202	8.558678	5.628751	6.997805	4.424075	9.376706	6.342197	7.123246
8711216	12.080565	6.530352	6.292207	8.453541	7.069731	8.255398	5.888381
871122	14.705486	5.645129	5.019090	9.311953	3.488413	6.928548	2.243537
871149	15.353532	6.771279	6.049187	10.460400	3.341880	8.224385	3.673200
8711561	11.083721	4.483171	5.602070	7.636742	4.652823	5.469570	4.559303
8711803	9.715688	8.172452	9.017311	6.410907	10.258024	9.175684	8.576131
871201	8.697285	6.427457	7.491469	3.253993	11.634093	6.859004	8.782429
8712064	12.490675	4.796114	5.196981	8.348407	4.689338	5.768776	4.183138
8712289	9.112827	7.643669	8.163440	5.338354	11.946524	8.568303	9.573927
8712291	14.024078	6.171056	5.218416	9.302116	5.051966	7.930790	4.173543
87127	15.905238	6.907459	6.458477	10.224367	4.119408	7.893973	3.270861
8712729	10.221471	4.789870	5.300066	5.832630	7.156047	6.272781	5.287699
8712766	9.092566	6.774553	7.736644	5.595167	10.939587	7.685381	8.470207
8712853	13.385798	5.046859	4.612101	8.156280	4.973294	6.624534	3.078362
87139402	13.736945	5.166721	5.209708	8.293478	3.814373	6.113107	2.644205
87163	12.349820	4.153039	3.678576	7.244263	5.258488	5.762460	3.302955
87164	10.648409	4.184278	5.606280	4.187213	8.552638	4.048710	5.673575
871641	14.446575	7.571065	7.968063	10.460735	4.380822	8.359491	5.534147
871642	14.931947	7.480060	7.407249	11.058361	3.406421	8.807212	5.147504
872113	15.779979	7.265209	7.097203	11.366155	2.164116	8.440678	4.505159
872608	11.454269	9.968915	11.290438	11.199111	10.220783	9.973881	10.559408
	857156	857343	857373	857374	857392	857438	85759902
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85713702							
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857343	3.206826						
857373	3.337740	2.893157					
857374	3.337245	2.529015	2.798206				
857392	6.325097	7.508246	7.613406	7.547763			
857438	2.346883	4.250727	3.524572	4.212233	6.115154		
85759902	3.741926	2.919198	4.308133	2.238720	7.008172	4.847842	
857637	7.108914	8.877224	8.431968	8.683632	4.082636	6.002813	8.354459
857793	5.015876	7.039356	6.701398	6.585319	4.547434	4.821451	6.306396
857810	3.888484	2.100539	3.363398	2.402531	7.540285	4.817867	3.067424
858477	6.629399	5.709105	5.730044	4.450818	9.394046	6.915044	4.523988
858970	7.188260	6.695381	7.941917	5.839295	7.826148	8.353764	4.610892
858981	6.264208	5.595067	7.179352	5.880616	8.311047	7.223617	4.606001

858986	8.348332	9.842738	9.593185	9.587053	6.521869	8.028818	9.356683
859196	6.713910	6.349792	7.252867	5.863591	8.267148	8.351723	5.131278
85922302	5.269919	7.011198	7.015281	6.680247	5.893138	4.767703	6.254262
859283	4.694504	6.626796	6.692315	6.405406	4.708821	4.386655	5.908197
859464	4.812981	4.568116	5.568476	4.684593	8.081793	5.725946	4.161213
859465	3.453316	2.091456	2.914377	2.134321	7.885706	4.185452	2.737756
859471	14.650115	15.606655	15.673339	15.063499	14.250325	15.196619	14.582105
859487	3.707369	2.569733	3.009613	2.224701	7.257817	4.198038	2.566263
859575	5.991159	7.243256	6.740518	7.522093	4.733891	4.820780	7.735338
859711	12.234666	11.902219	11.909132	11.231362	11.992843	12.755332	11.271867
859717	8.439844	10.323817	9.693070	10.053548	6.364730	7.555541	9.953065
859983	4.309136	5.317226	3.992454	4.490737	5.829101	3.615928	5.135135
8610175	2.521082	2.700355	2.058615	2.048153	6.728155	3.217549	3.169597
8610404	4.905580	5.960826	5.997109	5.895471	4.988152	4.260395	5.757283
8610629	7.132553	7.078152	7.407560	5.946099	6.602411	7.491376	5.297988
8610637	9.509019	10.814547	10.398545	10.276023	5.380388	8.953503	9.866337
8610862	16.287379	17.635232	18.142072	17.453569	12.120196	16.431665	16.194016
8610908	2.410757	2.878826	2.732908	2.490295	6.150715	3.011116	2.917557
861103	4.495117	4.795253	5.615078	4.910519	6.959982	5.151962	4.469783
8611161	5.506054	7.032723	6.463203	6.136125	5.827893	5.543953	5.863555
8611555	13.082723	14.912208	14.243765	14.927438	8.983094	12.050987	14.845730
8611792	8.953442	10.165001	10.294286	10.681608	5.734850	8.922388	10.130999
8612080	3.138300	3.882324	4.037594	2.752124	6.532096	4.065146	2.590413
8612399	5.796248	7.482419	7.340238	7.203756	2.900583	5.312059	6.718046
86135501	3.752522	5.356168	5.988837	5.448336	5.127251	4.756727	4.796310
86135502	5.883983	8.036107	7.500740	7.697757	4.791521	5.041100	7.619427
861597	2.566268	4.059593	4.241191	3.688780	6.074252	3.626657	3.728358
861598	5.263214	6.337002	6.136621	5.565018	4.172364	5.461849	5.200700
861648	2.044159	2.502300	3.084430	3.202465	5.899889	2.736125	3.620198
861799	3.505575	4.759826	4.833555	4.547434	5.488400	3.718201	4.462330
861853	3.752292	3.353559	2.213071	3.760855	7.531105	3.967309	4.973322
862009	2.314404	2.673720	3.035547	2.989512	6.045843	2.910328	3.007337
862028	5.572669	7.358714	6.894801	6.894653	4.862633	5.051735	6.761247
86208	6.610901	8.400940	8.295367	8.403431	3.649052	6.227778	8.007007
86211	3.681380	3.103100	3.900807	3.025758	6.527453	4.846057	3.144967
862261	5.589396	4.118020	4.986549	4.785927	8.683674	6.226294	4.949555
862485	4.467107	4.086975	3.138330	2.739730	7.413742	4.524031	3.645964
862548	3.491798	5.462313	5.087887	5.201035	5.157265	3.665526	5.209654
862717	2.129862	3.818591	4.200229	4.480659	5.709100	2.113736	4.648319
862722	7.513136	6.343617	7.149638	5.749590	9.675934	8.226075	5.308112
862965	2.185902	2.517135	3.022563	2.956597	7.787465	3.607827	3.738051
862980	3.866656	4.449761	4.776263	3.705044	7.359001	4.600735	3.726203
862989	4.121770	3.653565	5.006120	3.158687	6.932555	5.557122	2.519732

863030	8.789179	10.088411	9.508918	9.320581	7.248246	8.258745	9.049159
863031	4.220850	5.247833	5.396743	4.959444	6.462960	4.483859	4.622076
863270	2.497120	2.948209	2.200643	2.541767	7.588460	3.194694	3.722292
86355	15.364836	17.099334	16.949711	16.929031	10.433578	14.830729	16.281089
864018	3.958722	4.112112	4.145010	3.841462	7.757726	3.822924	4.158210
864033	5.934469	4.830102	5.818230	4.728721	7.903762	6.601454	3.999942
86408	5.305496	5.854980	6.144901	5.749077	6.707611	6.048919	5.574277
86409	9.758523	10.809235	10.290453	10.578635	8.768708	10.198779	10.732751
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864685	3.319543	3.453127	3.529910	3.122327	6.847933	3.362801	3.697519
864726	8.562766	7.749321	8.062406	7.617227	10.230829	9.188506	7.681545
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865137	4.939074	4.849156	3.772449	3.397880	7.891162	4.858958	4.145071
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865423	17.764660	18.800254	19.186677	18.813821	12.773665	17.559572	17.871238
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866083	2.646849	4.794674	4.668970	4.675675	6.565734	2.268419	4.873966
866203	5.201785	6.505569	6.258876	6.655478	4.348699	4.933236	6.715543
866458	5.687380	6.728319	6.571019	6.147812	4.764837	5.914089	5.777175
866674	6.686152	8.946176	8.573125	8.708032	4.273781	6.131154	8.592323
866714	4.815159	4.806408	4.643706	3.593653	6.572860	5.220807	3.166220
8670	4.223107	5.964665	5.599884	5.506740	4.064179	3.284616	5.436456
86730502	3.592615	5.870642	5.752347	5.527138	4.084305	3.323951	5.344034
867387	3.466621	4.549779	3.497378	3.713724	5.248021	3.333604	4.208026
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868202	2.166833	3.114278	3.452655	3.368878	6.907043	2.662888	3.617644
868223	4.523182	3.899387	4.361793	5.032876	7.328802	5.182867	5.203248
868682	3.027693	2.895946	2.645770	2.115108	7.292739	3.951017	3.003946
868826	8.894862	9.240418	10.197308	9.505101	6.054455	9.145290	8.195541
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869254	4.170679	2.418756	2.353438	2.716729	8.387184	5.011954	3.831730
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871001501	4.385925	4.806671	6.143296	4.233942	6.090942	5.509504	3.094979
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8710441	21.022129	21.776034	21.830352	21.351106	19.545885	21.658449	21.043167
87106	4.689419	3.622032	4.018129	2.288062	7.860490	5.372938	2.319880
8711002	4.284137	4.808851	4.698005	3.642353	6.132370	4.561390	3.024818
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8711202	6.778119	8.146194	8.102416	8.144929	3.356264	6.378704	7.830264
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871149	4.814136	3.154818	2.605842	2.551982	8.706276	5.263278	3.811458
8711561	4.516902	4.646320	5.905393	4.665849	5.548293	5.521837	3.337447
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871201	8.475669	10.399379	9.793855	10.092231	4.521313	7.507693	9.841832
8712064	4.275853	4.418137	4.780689	4.580511	6.853150	4.673384	4.571225
8712289	8.352576	10.136500	9.343868	9.977108	5.794062	7.264059	9.988447
8712291	2.827129	2.568104	2.375664	3.116547	7.219896	3.407195	3.920313
87127	6.081780	4.839722	3.982560	3.918041	9.023977	6.049598	4.937268
8712729	3.779248	5.281189	5.099675	5.297086	3.782073	3.705211	5.230152
8712766	7.825584	9.094570	8.923145	9.569931	4.806967	6.917532	9.519431
8712853	2.698779	3.263338	2.797044	3.064536	5.998117	2.999862	3.740569
87139402	4.381556	4.310322	4.139155	2.794962	6.962273	4.833062	2.960193
87163	2.327919	3.453678	3.425693	3.684922	5.765345	1.784329	3.905541
87164	7.128107	8.511704	7.735393	7.633041	4.931868	6.562976	7.447424
871641	6.222293	4.929046	5.651251	4.824224	8.600401	7.122438	4.537798
871642	5.398605	3.555529	5.077239	3.730425	8.450207	6.666731	3.243646
872113	6.054537	4.025477	4.817899	3.286896	9.322049	6.890179	3.610280
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858981	9.813431	7.230540	6.305391	5.183905	5.377569		
858986	6.681795	5.186121	10.421000	9.998160	10.171136	8.828743	
859196	10.312964	7.796078	6.294440	6.713770	4.493692	5.763234	9.285226
85922302	5.705652	2.963505	7.740763	7.092400	7.948623	6.134492	4.977001
859283	5.136409	2.413401	7.281431	7.470829	7.639480	6.249803	5.485337
859464	9.258543	6.311881	5.384228	4.621819	5.962852	2.743238	8.500158
859465	8.813966	7.114802	2.773888	4.693500	6.868314	5.424333	9.510789
859471	14.828311	12.944071	16.317700	14.467758	14.498149	13.677605	10.849096
859487	8.387528	6.872793	2.840730	4.562855	6.391923	5.476321	9.665523
859575	3.776768	6.307871	7.349554	10.258633	10.369350	10.110260	8.190216
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859983	6.434490	3.944268	5.792711	5.546317	7.474197	6.833616	6.734276
8610175	7.831659	5.615623	3.081761	4.942712	6.512788	5.879832	8.672184
8610404	4.470097	5.762062	6.031794	7.955753	8.427952	7.552720	6.972749
8610629	8.375282	6.977765	6.557616	5.784933	4.816933	5.741214	8.636735
8610637	5.144846	6.133778	10.892726	11.119748	10.202811	10.723463	5.172960
8610862	12.431769	12.978063	17.943441	17.933257	15.264505	15.830545	11.475608
8610908	7.314986	4.897773	3.455474	4.848403	6.140640	5.194968	8.054840
861103	8.153724	5.536416	5.400024	5.285566	6.076746	3.242198	7.683293
8611161	6.466537	3.036892	7.562960	6.258832	7.079639	6.389484	4.988103
8611555	7.631028	10.282376	15.126306	16.405280	16.035494	15.402038	8.595413
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8612080	7.639460	5.091788	3.910734	4.450813	5.108622	4.940629	8.353976
8612399	2.549652	4.408304	7.404575	9.194650	8.156075	8.576097	6.796871
86135501	6.103713	4.996704	5.599581	7.612909	6.858924	5.725026	6.677793
86135502	3.678371	4.376416	8.210700	10.092668	9.813446	9.911313	6.963777
861597	7.110610	4.063256	4.662710	5.749932	6.182805	5.069785	6.767348
861598	5.776805	3.828203	6.508062	6.836166	6.156560	6.649688	5.853454
861648	7.116189	5.372415	3.084378	6.689531	7.012122	6.198539	8.465420
861799	6.059062	4.961506	5.341003	6.937393	7.637311	6.431497	6.855020
861853	8.235694	7.443108	3.523187	6.926998	8.541001	7.927317	9.982070
862009	7.074074	5.392698	3.318201	5.413267	6.511105	5.146738	8.429010
862028	4.587600	3.813173	7.833476	8.004551	8.700399	7.557518	4.095233
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86211	8.347853	6.053773	3.538882	5.235579	5.146292	4.924998	8.884045
862261	10.146170	7.773523	4.778123	5.146468	7.036622	4.338292	9.673370
862485	8.342026	6.090105	4.442360	3.159743	6.440380	5.986273	8.746891
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862980	8.353947	5.369082	5.057408	4.169061	6.000814	3.993190	7.485007
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86355	9.778401	11.793408	17.322164	17.768694	16.268654	16.347734	9.507231
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86408	7.900946	5.770875	6.478358	6.681260	7.226473	5.150957	6.156307
86409	10.174603	8.243763	11.354234	11.587662	11.421719	10.936362	6.373803
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864726	11.366404	9.619792	8.301101	7.316212	9.218102	6.841826	8.846247
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865137	8.526446	6.413165	5.017554	3.215115	6.800594	6.338229	9.097793
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866458	6.100522	4.670350	6.993903	7.167056	6.892715	6.468230	5.765366
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8670	4.234564	3.592492	6.245346	7.208258	7.781633	7.150561	6.294975
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868202	7.494861	5.320885	4.048630	5.542832	7.216495	5.198413	8.206894
868223	8.693351	7.138367	4.690191	6.495599	7.672998	5.470115	9.140138
868682	8.482275	6.155688	3.331597	4.573820	6.346041	5.662161	9.249862
868826	7.019363	7.725935	9.665277	10.437006	8.500055	8.579264	7.646017
868871	8.580471	6.810956	5.568736	5.208364	6.509402	4.983302	8.251283
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86973702	6.137726	4.434209	5.256956	5.799777	7.271357	6.701055	7.068409
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871001501	7.737103	5.830296	4.602843	6.251785	3.893092	4.953047	8.949462
871001502	11.395487	7.833051	10.403137	8.228648	8.636086	7.428356	7.272115
8710441	20.633262	19.342149	22.139090	21.033284	19.975279	19.912424	16.898025
87106	9.033680	7.168096	3.522195	3.240437	5.291842	5.115325	9.899592
8711002	6.867151	4.810168	5.021536	4.343450	5.637151	5.370503	7.504589
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8711216	6.980837	6.636186	4.404337	8.791387	8.406063	8.197324	9.125362
871122	8.759004	6.792291	3.436771	4.054899	6.681999	6.256126	9.780181
871149	9.754037	7.986001	3.054013	4.494345	7.137667	6.849824	10.795035
8711561	7.365884	5.004472	5.114168	5.716610	4.491936	3.436600	7.021408
8711803	5.602877	7.981519	8.474581	10.815295	10.124716	10.441355	8.447080
871201	2.927788	5.677243	10.532598	11.644887	11.157380	11.307949	6.706924
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8712289	3.631201	7.025050	10.069677	12.374540	11.991987	12.202206	8.495288
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87127	9.982277	8.208026	5.016494	3.436860	7.565092	6.723189	10.430328
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8712853	7.044790	5.757983	3.204980	6.050421	6.903763	6.402509	8.944636
87139402	7.981807	6.288128	4.181896	3.992160	5.527231	5.649560	9.041949
87163	5.999387	5.010617	4.050078	6.194506	7.448006	6.260868	7.923670
87164	5.529739	4.136806	8.837185	7.811539	8.310235	8.400842	5.709181
871641	10.037567	8.321984	5.092142	5.140221	6.334934	4.646931	9.787651
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859487	6.614479	6.677584	6.263776	4.745837	1.829153	15.263312		
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8610629	6.501266	6.960396	6.496496	6.259298	6.483402	14.343974	5.530480	
8610637	10.148871	7.103834	6.945679	10.587643	10.657322	13.001433	10.331172	
8610862	15.160895	13.603772	13.177241	16.549631	17.658362	13.923800	17.441371	
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8611555	15.612865	10.871512	10.338218	14.867692	14.864758	16.546115	14.636844	
8611792	10.191005	7.465490	6.591527	9.318559	10.439426	14.368766	10.249221	
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862009	6.572923	5.297865	4.755604	4.211769	2.741975	14.820887	2.194524	
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863270	7.087345	6.216520	5.882597	4.916929	3.034259	15.289370	3.169720
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864033	5.099641	6.225587	6.397705	3.130421	4.181683	13.411479	4.413612
86408	5.671975	5.319370	5.190185	4.493487	5.325597	12.128791	5.607836
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8711803	9.585938	8.588606	7.984932	10.258109	8.433592	14.968735	8.114156
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8712291	7.572948	7.316970	6.623265	6.039361	3.241094	16.256148	2.971167
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87139402	6.151393	6.263190	5.960322	5.149464	3.420305	14.534691	2.366352
87163	7.353599	4.735924	4.506460	4.991105	3.384580	14.783647	3.488563
87164	8.773894	5.094789	4.701342	8.032410	8.069938	12.474089	7.317376
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8610637	7.143945	11.451219	5.302240	7.606454	9.620792	6.922909	8.554452	
8610862	14.899934	16.884638	12.053773	15.713413	17.157843	14.589148	15.081518	
8610908	6.540201	11.127146	8.362986	2.937122	1.229360	5.095290	5.635863	
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8611161	7.611744	10.055996	5.841629	3.420635	5.284859	6.015886	5.841439	
8611555	9.080160	16.270391	7.579438	11.917197	13.945102	10.417687	13.792150	
8611792	8.002082	11.404526	7.092405	8.701407	9.809728	7.946732	9.395269	
8612080	7.493813	11.235707	8.732913	3.899461	2.317447	5.652722	5.223865	
8612399	4.019944	12.688494	6.159398	5.816527	6.603660	3.973792	7.117630	
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86135502	4.212775	13.664024	5.298603	5.965211	7.029973	5.259662	8.977677	
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862548	6.081361	10.555442	6.162118	3.569385	4.141103	4.386510	6.147221
862717	5.164873	12.140522	7.442127	4.352354	3.563561	4.218148	7.426320
862722	11.457244	10.175147	11.729944	6.904781	6.111131	9.316260	5.803890
862965	7.424990	12.624308	10.082110	5.368222	2.639972	6.227770	7.637304
862980	8.282874	10.152847	8.620330	4.052392	3.321078	5.829239	5.415934
862989	8.435904	10.216783	9.666286	5.247556	3.474726	6.368288	4.926716
863030	9.559392	10.500387	6.093211	5.925566	8.459322	8.323733	7.503244
863031	7.675635	10.335289	7.568712	3.840388	4.065593	5.343983	5.475044
863270	7.224972	12.295739	9.455656	4.000974	1.721142	6.258164	7.279592
86355	12.162514	17.067790	9.546213	14.177644	16.060754	12.624774	14.688587
864018	7.790724	11.079610	8.544782	4.090547	3.553189	5.746893	6.834311
864033	9.186807	8.788134	9.858041	5.661374	4.982850	6.618041	5.001333
86408	7.860132	8.498204	8.160463	5.353928	5.373183	5.430640	5.832643
86409	10.384750	8.944653	8.275535	8.856346	9.920784	9.804717	10.616208
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864726	10.853621	7.694808	11.396016	8.043783	7.657357	8.286885	7.590040
864729	7.040238	11.605145	4.807658	4.578924	6.833431	5.796212	6.620530
864877	7.895389	11.325333	3.393300	6.342188	8.639233	6.966442	8.416293
865128	6.950857	14.451413	9.747328	8.154686	7.386892	6.876998	8.715248
865137	8.122907	11.338259	9.575949	3.405223	2.944088	6.393594	5.731548
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865432	6.453554	11.270958	8.415315	2.856108	3.339583	5.320729	4.804029
865468	6.913347	10.932115	9.018748	4.296504	2.958313	5.818042	7.504273
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866083	6.213830	12.796113	7.279510	4.223102	3.894354	5.411002	7.827469
866203	2.917449	13.306115	7.635054	6.229655	5.939717	3.868478	8.116350
866458	6.570213	9.659424	7.182414	4.409112	5.487724	4.669899	4.552802
866674	5.167034	13.478345	4.855426	6.619388	7.848635	5.866952	8.886298
866714	7.968884	10.151416	8.664563	3.506062	3.417772	6.224093	4.332560
8670	4.444984	12.107971	6.197535	3.408969	4.554440	3.318907	5.975863
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867387	5.036840	11.848535	8.263313	3.112631	2.819131	4.077609	5.549092
867739	2.894494	13.267955	6.210302	5.085386	5.659740	3.410853	7.860709
868202	6.780098	11.627830	8.457846	4.251120	2.827014	5.127866	6.910681
868223	7.577628	11.397031	10.054618	5.510417	3.968294	5.975800	6.949354
868682	7.434533	11.604790	9.789456	3.872802	1.147702	5.882714	5.881224
868826	7.858007	12.201163	9.195756	8.853589	9.266781	6.371859	8.062223
868871	8.212691	9.776555	9.812849	4.921758	4.303169	5.627595	4.213437
868999	9.757946	11.359560	11.656342	5.783547	4.041000	8.188939	5.990655
869104	3.746937	11.357341	6.456529	3.886418	4.394466	2.815392	5.931713
869218	7.853476	10.599374	9.108398	4.284693	3.059528	6.057709	5.495309
869224	6.785582	11.409795	8.409362	3.066871	2.230579	5.427174	5.876733
869254	8.069372	11.538630	10.853052	5.219649	2.499048	6.605264	7.083894
869476	9.398875	6.835037	8.733823	5.364109	6.089300	7.526885	4.238557
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8711003	7.127223	11.175866	8.819787	3.645619	1.599058	5.584033	5.873631
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8711216	5.096826	13.104540	9.045007	5.999605	4.370427	5.054926	8.162592
871122	7.656974	11.522131	10.150065	3.826427	1.839966	6.238764	5.927504
871149	8.334613	11.866000	11.186320	5.228916	2.920387	6.986673	7.072241
8711561	7.581487	9.717421	8.229659	5.164945	4.550883	5.344060	4.775169
8711803	4.626036	12.951063	8.947692	7.841877	8.229246	4.447209	8.465397
871201	5.149182	14.325071	5.293996	7.366962	9.135082	6.382935	9.453024
8712064	7.653000	9.317092	8.000162	4.370349	4.078131	5.502976	5.879941
8712289	4.102058	14.966513	6.571666	8.113060	9.296276	6.347948	10.594459
8712291	6.316966	13.054057	10.032136	5.102980	2.712032	5.851496	7.581138
87127	8.989211	11.316310	11.227951	4.794570	3.826495	7.297456	6.179750
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8712766	4.627005	12.710927	5.369044	7.132107	8.516557	5.413495	9.599005
8712853	5.734687	12.148494	9.032408	3.756609	1.952477	4.685752	5.843103
87139402	7.486572	11.090446	9.819856	4.024080	2.827747	5.347642	4.206760
87163	4.957126	12.216278	7.936720	3.814089	2.772380	3.651205	6.787509
87164	6.951571	11.305911	6.157122	4.345719	6.708057	6.189653	6.074455
871641	9.452684	9.439458	11.244392	6.486049	5.201257	6.998297	5.271913
871642	9.284221	12.038939	11.812401	6.839549	4.363742	7.566112	6.283481
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8611555	7.700994	11.706414	13.428914	13.639559	11.468969				
8611792	7.410914	11.693380	9.121236	8.375305	7.973068	8.084637			
8612080	9.280818	16.086503	1.987322	3.810020	4.540198	14.077983	9.794264		

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86135502	6.339704	13.031555	6.592995	8.092808	6.027019	8.928775	7.944362
861597	8.454482	15.177481	2.642824	3.191324	4.049306	12.689460	8.063399
861598	5.618005	13.223268	4.356194	5.931856	3.338375	11.198378	7.570118
861648	9.262437	16.285309	2.402582	4.632662	5.983590	12.912831	8.590776
861799	7.786200	14.459131	3.834493	5.217676	4.792843	11.355592	7.666038
861853	10.492877	18.367103	3.753508	6.483998	7.365116	14.076685	10.501503
862009	9.349302	16.409053	1.350120	3.834829	5.287321	13.335391	8.933496
862028	5.442937	12.934146	5.425061	6.153146	3.470148	9.171040	6.832849
86208	5.579102	11.774688	7.241949	8.138654	6.753935	8.028105	6.499464
86211	9.721278	16.576983	2.718303	4.054561	5.799553	14.221104	9.107487
862261	11.522404	18.223192	4.495276	3.420836	7.268551	15.463973	9.818186
862485	9.559367	17.209850	2.626410	4.977267	4.936647	14.407633	10.498241
862548	7.457060	14.414438	3.536730	3.588328	3.535862	10.958413	6.714719
862717	8.885569	15.740511	3.147664	4.296586	5.550982	11.925381	8.050086
862722	11.979264	17.888356	5.803814	4.787962	7.250662	17.138835	11.776445
862965	11.201472	17.955453	2.981019	4.597057	6.915207	14.808236	10.352924
862980	9.530791	16.242116	2.851164	2.877817	4.328797	14.001167	9.434991
862989	9.804622	15.962932	3.148737	3.527326	5.606964	14.765279	9.654476
863030	6.968223	13.151551	7.750621	7.346760	4.354883	10.968374	8.311271
863031	8.612394	15.301650	3.290664	2.423454	3.679609	12.798103	8.150229
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86355	7.948389	7.693657	15.468324	15.471387	12.580387	6.644059	10.440182
864018	9.938362	16.839320	3.132979	3.428879	5.122853	13.894680	9.781381
864033	9.813446	15.957535	4.531831	3.692733	5.742210	14.735192	9.395283
86408	8.281569	14.591690	4.929030	4.194710	4.898577	12.213503	7.047033
86409	8.401040	13.090302	9.620671	9.934144	7.644327	11.243718	8.268790
864292	9.239960	15.218984	4.950451	3.462003	5.201674	13.815227	8.190939
864496	9.997664	16.826536	4.583723	4.592470	4.759107	15.034264	10.609264
864685	9.266282	16.748973	2.007807	3.282450	4.904165	13.465410	9.146742
864726	10.837329	17.015156	7.578525	7.367208	7.963463	15.246065	10.682042
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865423	11.334662	9.512115	17.662476	16.713194	15.464972	10.422952	11.570739
865432	7.978615	15.457131	3.115980	5.542696	4.131814	12.708560	9.070551
865468	9.848702	17.439191	3.493562	5.852495	5.953091	13.495921	9.717012
86561	10.382990	17.984652	2.213691	5.185935	6.478479	14.263144	10.368296
866083	9.229264	15.868326	3.402675	4.680641	5.086201	12.555888	9.158482
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8670	6.716369	14.224456	3.985998	5.425078	4.207720	10.250379	7.641829
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868202	9.852682	16.602161	2.393799	3.201061	5.431334	13.427657	9.000711
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868871	9.269148	16.545157	4.147626	4.880115	5.500373	13.975616	9.317684
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869104	6.251433	13.948825	3.938127	5.153634	4.810798	10.193542	6.951100
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871001502	10.376307	15.002151	8.611160	6.863406	6.654944	14.811467	10.228352
8710441	18.168508	18.272886	20.769340	19.892227	18.524806	20.546953	18.254825
87106	10.440805	17.421711	3.137770	4.968650	6.106051	15.471076	11.053430
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8711803	6.300023	13.516688	8.070247	9.628465	8.296667	9.785780	8.345712
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8712291	10.721632	17.814800	3.027778	5.906243	7.146244	14.284694	10.248831
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8712853	9.400401	16.918925	2.061799	4.872405	5.827348	13.195688	9.221782
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871641	10.917795	17.248291	5.112757	4.920176	7.086967	15.417648	9.921586
871642	11.799233	17.874192	4.534937	5.370539	7.885337	16.468830	11.383572
872113	11.954911	18.667647	4.524414	5.556276	7.534355	17.030219	12.084571
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86135502	6.926302	3.359156	5.830248				
861597	2.884761	5.670708	3.317072	6.159015			
861598	4.519093	4.684163	4.548155	5.720474	4.443761		
861648	3.701456	5.808956	4.351350	6.056034	3.129538	5.210891	
861799	4.655071	5.030907	3.344213	5.367464	3.555265	4.203183	3.583543
861853	4.874403	7.236721	5.886645	7.658118	5.123196	6.467930	3.692288
862009	2.566193	5.918898	4.019595	6.684540	3.191126	4.762572	2.313273
862028	5.895235	4.535941	4.371463	4.875009	4.813946	3.698205	5.948351
86208	7.506840	2.614841	5.297292	2.972542	6.581465	5.779661	6.436821
86211	3.354630	6.814579	4.740722	8.024339	3.570038	4.807030	3.437543
862261	5.197259	8.904721	6.456004	9.965304	4.803653	7.437030	5.121737
862485	3.047147	7.280677	6.131202	7.831008	4.163796	5.036963	4.473421
862548	3.972596	4.720695	2.968530	5.492833	2.262293	4.157246	4.065301
862717	4.205461	5.314480	3.793315	5.320243	3.005647	5.410504	2.405726
862722	5.319141	9.996864	8.141635	11.285539	6.361214	7.713058	7.346567
862965	3.422854	7.337017	5.077559	7.668104	3.604496	6.771612	2.837642
862980	2.783027	7.212895	4.542135	7.857984	2.624264	5.050659	4.430225
862989	2.652930	7.126347	4.516981	8.248851	3.299946	5.003084	4.033229
863030	7.848391	7.601514	8.026787	8.022643	7.240139	6.002250	9.056248
863031	3.452725	6.299353	4.143525	7.263191	2.879266	4.652584	4.759284
863270	2.924826	7.273109	5.660541	7.213343	3.652562	5.983617	2.976100
86355	15.540765	10.758220	13.077329	11.153922	14.625418	12.112540	15.414448
864018	3.599082	7.250546	5.349967	7.503769	3.279650	6.131770	4.179410
864033	4.696107	8.055440	5.626249	9.332935	4.521816	5.853190	5.588028
86408	5.478005	6.774655	3.935251	7.886678	3.734748	4.901092	5.373533
86409	10.109449	9.465994	8.454760	9.292151	8.444160	7.794202	9.817283
864292	5.173810	7.886973	5.265398	9.115643	4.181030	5.368128	5.859021
864496	4.626529	8.673638	7.099369	9.299136	4.982868	5.861932	6.460008
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864726	8.125285	10.517501	7.715733	11.433144	7.353887	7.677069	8.313056
864729	5.983865	4.811077	5.877060	5.384634	5.547137	4.458480	7.082522
864877	8.036185	5.924719	6.898674	5.899388	6.786093	6.066084	8.427789
865128	6.670862	5.316334	6.198961	5.848013	7.044184	6.858008	6.382476
865137	3.146944	7.626700	6.533290	8.116145	4.781657	5.334354	5.167971
86517	6.393227	1.951833	4.523500	4.414031	5.718580	4.433590	5.932586
865423	17.685341	13.392058	14.662678	14.863267	16.749512	14.683116	17.490199

865432	3.484540	5.578666	5.271640	6.512030	4.538574	3.217706	4.693559
865468	4.553433	7.405601	5.302863	7.367070	4.118635	5.759460	3.908528
86561	3.384327	7.030570	5.763384	7.366906	4.244169	5.893458	2.645207
866083	3.776579	5.730799	4.838855	5.180363	3.315243	5.787214	3.468549
866203	6.391345	3.593456	4.782040	4.291653	6.013163	5.412833	4.934855
866458	5.365329	5.273916	4.438427	6.574660	4.761733	2.437448	5.615803
866674	7.646685	3.962485	5.807856	3.074368	6.677428	5.993004	6.852375
866714	2.575633	6.558069	5.563054	7.488110	3.922593	3.900057	4.694089
8670	4.518268	3.674871	4.266314	4.187998	4.314263	3.724504	4.431801
86730502	4.160524	3.294111	3.759012	3.668284	3.839882	4.233627	3.948612
867387	3.581584	4.923854	4.623512	5.638873	4.178873	3.720164	3.549008
867739	5.861885	2.949498	4.710320	3.190531	5.277094	5.496128	4.599611
868202	3.146572	6.332951	4.184179	6.641590	2.422959	5.810761	2.649563
868223	4.968467	7.597104	5.104676	8.849905	4.644835	6.489839	4.479443
868682	2.391992	7.247699	5.260745	7.763235	3.721628	5.182466	3.397441
868826	8.813509	6.255901	6.578912	8.128923	8.198926	6.207028	8.704657
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868999	3.963415	9.058634	7.714314	9.827843	5.880719	6.825881	5.718464
869104	4.584029	2.871868	3.640869	4.435025	3.979153	3.566804	3.832412
869218	2.983733	6.925449	4.651343	8.077104	3.148576	5.248209	3.686299
869224	2.047661	5.974214	4.949048	6.286380	3.198029	4.343110	3.464039
869254	4.005752	8.363267	6.115543	8.905479	4.723323	6.649954	3.966366
869476	5.608912	7.796532	6.840321	9.002720	5.443216	4.587721	6.657669
869691	8.109869	8.198626	8.029751	8.810144	8.000249	7.119301	9.787133
86973701	5.498955	5.889511	4.345762	6.676444	4.098333	4.674410	4.839891
86973702	3.536262	5.329086	4.459442	5.715567	3.655676	3.224101	3.926301
869931	4.146599	7.349315	6.036096	7.275268	4.631752	6.088722	2.860796
871001501	3.346298	6.014998	4.349938	7.381357	4.315935	4.778439	4.441657
871001502	8.170717	10.314503	8.438116	10.784923	6.975971	8.426756	9.634126
8710441	20.643601	19.977912	18.830584	20.575630	19.447625	18.521405	21.323511
87106	2.944107	7.689938	5.891010	8.700628	4.706903	5.557217	4.648961
8711002	2.599044	5.552523	4.534204	6.223226	3.483961	3.881101	4.483169
8711003	1.512631	6.331047	4.575023	6.739429	2.504732	4.743672	2.910604
8711202	7.282594	4.012070	4.817337	5.351202	6.176961	4.345646	6.541202
8711216	5.231045	5.624862	4.348390	6.203233	4.908204	6.113960	3.520158
871122	3.111278	7.608852	6.217378	8.202249	4.521373	5.656632	4.015153
871149	4.084777	8.478706	6.991732	9.029255	5.272532	6.906242	4.552783
8711561	3.640619	5.758323	3.391595	7.163525	3.151348	4.093881	4.396185
8711803	8.715754	5.294740	6.640729	6.591456	8.089390	6.130274	7.501044
871201	8.948550	4.020968	7.454540	3.960067	8.415922	6.554732	8.594246
8712064	4.269404	6.873837	4.330047	7.682131	2.813057	5.361975	4.032326
8712289	9.506271	4.403311	7.854197	3.799864	8.696330	7.651384	8.152683
8712291	4.063659	6.922742	5.569557	7.060909	4.657799	6.380097	2.371584

87127	4.815384	9.097209	7.703933	9.802160	6.107165	6.726796	5.863603
8712729	4.909338	3.015211	3.328218	4.251982	4.202811	4.015403	3.673528
8712766	8.979854	5.203769	6.758701	5.601370	7.494130	6.748323	7.484925
8712853	3.150536	5.893031	4.650380	6.662171	3.914876	4.865513	2.496053
87139402	2.780311	6.756406	5.319997	7.798520	4.420200	4.401706	4.567232
87163	3.398067	5.016072	4.022219	5.488271	3.249861	5.068092	2.619116
87164	6.352540	5.301089	6.535342	5.918794	6.360231	3.768933	7.352687
871641	5.448883	8.701530	6.019198	10.139889	5.449673	6.690470	5.898459
871642	4.204133	8.545393	6.289512	9.775311	5.557635	7.215401	5.053638
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86211	4.545555	4.387703	2.832833	6.470479	8.179549			
862261	6.405736	5.899717	4.589024	8.052029	10.048326	4.150097		
862485	4.993532	4.362474	3.414740	6.204119	8.738858	3.743146	4.980755	
862548	3.452270	5.648095	3.712977	3.447103	5.682649	4.541579	5.657925	
862717	3.386908	4.423178	2.903749	4.908806	5.971775	4.507310	5.556137	
862722	8.217082	8.304461	6.289297	9.233030	11.549835	5.414416	4.575488	
862965	5.052122	3.559093	2.857522	7.349539	8.257708	3.840199	4.801219	
862980	4.453983	5.679001	3.389247	5.408825	8.450065	3.681611	4.276389	
862989	5.063135	5.684549	3.533587	6.768717	8.265018	2.603677	4.427933	
863030	7.772336	10.380912	8.344755	5.475448	8.754200	8.501743	9.254151	
863031	4.486500	6.167215	3.507004	4.582916	7.673207	4.107358	4.647355	
863270	4.857838	3.488589	2.635054	6.731089	8.252930	3.907149	5.222980	
86355	13.597278	16.741028	15.450517	10.971847	10.012370	16.036608	17.773152	
864018	4.615400	5.329937	3.478845	5.849307	8.380792	4.717133	4.231934	
864033	5.365776	6.644769	4.725922	6.744082	9.274106	4.252183	3.487269	
86408	3.850282	6.611727	5.044895	4.727772	7.616356	4.543549	5.151465	
86409	8.440815	10.734774	10.166001	7.605947	9.005931	9.884799	10.845261	
864292	5.490843	7.420742	5.375226	6.267909	8.919535	4.207485	4.290922	
864496	6.318754	7.296813	5.323870	6.666477	10.173803	5.068289	5.139404	
864685	4.144293	4.588065	2.548719	5.432450	7.816411	3.501802	3.865359	
864726	7.002182	8.423427	7.771862	8.013462	11.204541	7.182850	6.688098	
864729	5.814373	8.574615	6.452339	3.348412	6.101523	7.320379	8.754859	

864877	6.904212	10.194852	8.293796	4.146366	6.341997	8.973649	9.843065
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865137	5.599966	4.827647	3.796785	6.452229	9.121820	4.517645	5.699234
86517	4.743036	7.038127	5.772329	3.788350	3.561486	6.539104	8.367411
865423	15.547713	18.900460	17.432582	13.799210	12.808669	17.729696	18.587161
865432	4.469823	4.936335	3.512668	5.017896	7.199668	3.747040	6.504279
865468	4.389186	3.110854	3.850627	6.074645	7.931795	4.603768	5.548415
86561	4.826278	2.662383	2.389638	6.880111	8.095807	3.496328	4.974559
866083	4.460135	5.481905	3.574230	5.377802	6.506039	5.366928	6.466439
866203	4.951689	5.509883	5.516940	5.647315	3.510642	6.588010	8.890964
866458	3.826020	6.833576	5.042880	3.377442	6.365764	4.934246	7.220203
866674	5.769438	8.682246	7.349104	4.643548	3.182369	8.483124	10.314887
866714	5.100258	5.811364	3.654261	5.961753	8.005876	3.761767	5.396188
8670	3.521977	5.734131	3.955400	2.993556	5.065383	5.345371	7.273701
86730502	4.099667	6.019138	4.034578	4.110706	4.172834	5.474954	7.507019
867387	3.465308	3.600460	2.872285	4.771726	6.271685	3.873018	6.562083
867739	4.350363	5.947149	4.861600	4.453877	3.602232	6.592036	8.068562
868202	3.815092	4.381557	2.339255	5.756124	7.336962	3.886783	4.233968
868223	5.551291	4.228590	3.443300	6.935959	8.769676	3.497753	3.506120
868682	4.595102	3.386769	2.146366	6.418285	8.490131	2.803082	4.777841
868826	7.073709	9.808909	8.427282	6.726285	6.947155	8.360014	10.304336
868871	4.849833	5.616085	4.117674	5.762493	8.993580	3.614421	5.050863
868999	7.157251	5.802149	4.965721	8.853702	10.485340	4.509287	5.475175
869104	3.567009	5.058759	3.833655	3.733552	4.203720	4.696495	6.631749
869218	4.881754	5.043693	2.451371	6.283328	8.228974	2.513399	3.121476
869224	4.168167	4.360531	2.770988	5.534430	7.198046	3.832897	5.714499
869254	5.552828	2.843293	3.341964	7.698229	9.350564	3.787503	4.248305
869476	6.381088	8.142430	6.266631	6.611673	8.938047	5.294840	6.020754
869691	8.799189	11.711366	9.495939	8.377777	8.812563	9.337924	11.241281
86973701	4.911351	6.320887	5.369110	5.885120	6.000710	5.174947	6.462799
86973702	3.096112	4.201738	3.018339	3.755186	6.588064	3.963732	6.300525
869931	4.982992	2.185023	3.134377	7.061686	8.066592	4.155935	5.722506
871001501	5.007925	6.437327	3.971876	6.564765	7.358604	3.611036	6.381129
871001502	9.162177	11.269040	9.422169	8.561805	10.881988	8.944910	8.161009
8710441	19.686776	22.085742	21.164742	18.674857	19.911705	20.320528	20.861103
87106	5.190523	4.696691	3.327879	7.118844	9.214126	3.257988	4.840804
8711002	4.010752	5.627544	3.575605	5.006586	6.903102	4.454908	5.951833
8711003	4.200587	4.102605	2.519449	5.968480	7.491144	3.034504	4.991247
8711202	4.920307	7.865034	6.552349	3.200101	4.223221	7.164182	8.843097
8711216	4.953548	3.762391	4.175275	6.656523	5.839120	5.106345	7.143822
871122	5.271673	3.403643	2.896382	6.982434	8.994349	3.385202	4.741522
871149	6.209557	3.428579	3.947642	8.191921	9.715936	4.319969	4.890126
8711561	4.266301	6.432779	3.863255	5.365361	6.868431	3.707330	4.974682

8711803	5.914408	7.597554	7.707560	6.142496	5.601702	8.117819	10.410965
871201	7.358295	9.641789	8.626872	5.326007	4.096247	9.707900	11.652621
8712064	4.068169	5.739643	3.643029	5.295060	7.778252	3.965263	3.221274
8712289	7.349767	9.155118	8.825143	6.731364	3.512344	10.022697	11.895612
8712291	4.744826	2.781484	2.681389	7.286936	7.693518	4.139313	5.792745
87127	6.465690	4.823835	4.600752	7.834410	10.582222	4.699836	5.124791
8712729	3.319764	4.665265	3.993757	4.242320	3.866715	4.942678	7.251793
8712766	6.653244	8.585211	7.924697	5.040585	4.923340	8.747505	9.787855
8712853	4.009705	2.994188	1.652450	5.846440	7.087227	3.036254	5.356272
87139402	4.518515	4.589255	3.113288	5.978463	8.393008	3.187459	5.594644
87163	3.585091	3.498927	2.166610	5.014812	6.210976	4.151239	5.461225
87164	5.869838	8.195528	6.595120	3.845241	6.669764	7.002869	8.949420
871641	5.659493	6.143325	5.020410	7.677324	9.952119	4.016559	3.763992
871642	6.635195	5.409889	4.420316	8.844213	9.681239	4.092680	4.802603
872113	6.943554	5.867963	5.004986	8.953464	10.773706	4.310652	4.230624
872608	9.706745	11.874479	10.611243	9.479458	11.300115	9.796379	9.397831
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862965	4.501398	4.878645	3.452384	6.891724			
862980	3.504300	3.584132	4.263195	4.951764	4.229120		
862989	4.210920	4.786005	4.945598	4.545068	4.102390	3.103577	
863030	7.739242	6.213550	8.195457	8.928555	10.070892	7.065359	8.587161
863031	4.291648	2.677339	4.080643	5.591293	5.022157	2.132910	4.098625
863270	3.105891	4.824398	3.689403	6.562301	2.223341	3.932764	4.311939
86355	16.312225	13.195375	14.433782	18.268506	17.194815	15.677325	16.014910
864018	3.405555	4.126600	3.803699	5.676663	4.034769	2.658335	4.520038
864033	4.498207	5.348855	5.972835	4.117566	5.941308	3.682629	3.722466
86408	5.749932	3.542171	5.143916	7.102710	6.218448	4.101795	4.832339
86409	10.124488	8.016140	9.464672	12.169059	11.025019	9.510368	9.902005

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864496	3.597497	5.649367	6.471173	4.111937	6.516538	3.384246	4.958528
864685	3.093771	3.599278	3.318129	5.603180	3.640782	2.261329	3.579891
864726	7.352870	7.691423	8.504041	8.064223	8.817904	6.660551	7.140458
864729	6.585519	4.333019	6.156827	8.743517	8.179925	5.882585	7.242106
864877	8.541967	5.452200	7.202816	10.400187	9.780678	7.437228	8.820286
865128	8.243092	7.523213	6.914481	10.521205	7.397201	8.566791	7.348824
865137	1.341092	5.428571	5.704374	5.534491	4.974832	3.807096	4.781522
86517	7.048110	4.328896	5.337357	9.746850	7.553115	6.912171	7.156497
865423	18.549594	15.374629	16.784649	19.292758	19.173888	17.513127	17.443248
865432	3.129208	4.449620	5.145380	6.684512	5.480554	4.558204	4.728535
865468	4.017750	4.620383	4.388011	7.912493	4.047533	4.692500	5.271578
86561	3.118799	5.076200	3.952990	6.688365	2.695145	4.484431	4.371514
866083	4.985076	3.777640	2.511962	7.805552	3.848958	4.314643	5.327287
866203	7.305576	5.522363	5.002764	10.795212	6.535387	7.645471	7.175185
866458	5.624653	4.010608	5.703109	7.940309	7.180142	5.061003	5.480890
866674	8.734406	5.468658	5.917547	11.614335	8.445870	8.138100	8.602934
866714	2.678154	4.711718	5.529752	4.740443	5.282565	3.608397	3.494753
8670	5.091595	3.391259	3.576834	8.364748	5.808735	4.851857	5.816273
86730502	5.786123	3.276445	3.359921	8.543299	5.249272	5.172729	5.446321
867387	3.564727	4.080042	4.192987	7.718558	4.583478	4.783902	4.950921
867739	6.602358	4.322738	3.684276	9.907004	6.152995	6.633763	7.117284
868202	4.011091	3.372024	2.269368	6.450151	2.441918	3.040605	4.044765
868223	5.107410	4.766293	4.540420	6.639225	4.284477	4.636251	4.818212
868682	2.458156	4.740879	4.231863	5.758647	2.888084	3.280329	3.428910
868826	9.485011	7.862995	8.367700	10.888751	10.255873	8.995803	8.440492
868871	4.372524	4.958434	5.900563	5.974865	5.944189	3.808862	4.366029
868999	3.278282	7.278965	7.003750	4.348089	5.205257	5.101545	4.162069
869104	5.187637	3.278621	3.506621	8.180782	5.526684	5.282748	5.280385
869218	3.701628	3.885861	4.163595	4.540749	3.777714	2.877364	2.883987
869224	2.335113	4.206711	4.167026	6.086602	3.818356	3.621728	3.797744
869254	3.381656	5.882549	5.030919	6.226875	3.182719	4.540639	4.283894
869476	5.281957	5.886136	7.324812	5.309760	7.822508	5.170840	4.933586
869691	9.540518	8.347742	9.722694	9.827988	10.479863	8.743813	8.261207
86973701	6.224207	4.399259	5.397794	8.258025	6.198751	5.882987	5.207463
86973702	3.231822	3.389952	3.987104	7.405654	4.891348	3.950012	4.904468
869931	3.750571	5.526745	4.169061	7.692894	3.129843	5.214380	5.043942
871001501	5.418166	5.199308	5.135923	6.201516	4.990041	4.457085	2.767020
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8710441	20.986816	19.120709	20.803884	21.163792	21.979636	19.770326	19.944605
87106	2.531259	5.776958	5.648432	4.715681	4.353910	3.762761	3.316224
8711002	3.128593	4.157418	4.773789	5.967578	5.070200	3.641122	3.984484
8711003	2.711678	3.996737	3.714736	5.751236	2.693182	2.971780	2.819757

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8711216	6.364742	5.032159	4.128178	9.484057	4.199689	6.498813	5.752661
871122	1.783104	5.400052	5.034163	5.642549	3.683999	3.999516	4.216090
871149	2.916987	6.517448	5.729014	6.032765	3.803572	5.029172	4.776611
8711561	5.040163	3.905895	4.529569	5.583949	5.297927	3.573792	2.754071
8711803	8.772659	7.474707	7.540567	12.101339	9.328639	9.233090	8.995268
871201	9.557073	7.013738	7.641969	12.601574	10.212096	9.634881	10.140638
8712064	4.529418	3.112740	3.911751	5.738389	4.724834	2.833827	4.004694
8712289	10.039567	7.619415	7.752079	13.585969	9.968628	10.450511	10.656413
8712291	4.459685	5.514517	3.883504	7.827394	2.591209	5.401023	4.965818
87127	2.443474	6.768834	6.660452	5.447729	5.598093	4.877089	5.471573
8712729	5.794033	3.689806	3.631426	9.130359	5.313627	5.821905	5.657567
8712766	9.246616	6.194246	6.275104	11.950540	9.348617	8.786887	9.409895
8712853	3.634402	4.197721	3.571075	7.001679	3.174590	4.291947	4.176724
87139402	2.509444	5.047545	5.317603	5.616371	4.696814	3.602283	3.685371
87163	4.039006	3.541768	1.961820	7.415687	3.254793	4.104949	4.701522
87164	6.200385	5.274809	6.808331	8.857945	8.600978	6.558106	7.463488
871641	5.112243	6.080228	6.686070	5.316499	5.951620	4.803425	4.443193
871642	4.979863	6.840862	6.354075	5.156102	4.352640	5.355649	3.399547
872113	3.754833	7.207187	6.836844	3.741197	5.065046	4.838665	3.879736
872608	10.449868	8.834677	10.615626	10.271481	11.481171	9.188557	9.350923
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864018	7.708468	3.190719	3.501789	16.088569			
864033	8.035270	4.080522	5.840550	16.139284	4.198332		
86408	7.118136	3.828859	6.325620	14.073751	5.140820	3.996905	
86409	8.489608	9.261528	10.570897	12.215119	10.156726	9.771172	7.303150
864292	7.075002	3.866740	6.391755	15.221174	5.242007	3.159180	2.760881
864496	6.350022	3.727431	5.432926	16.380091	3.918822	4.058226	5.585005
864685	7.581272	2.910136	3.122872	15.706317	2.164327	4.100905	4.586468
864726	9.787965	7.149788	8.617410	16.671093	7.366710	5.020815	4.817092
864729	3.859660	4.739047	7.386658	10.952013	6.318595	7.478322	6.442673
864877	3.852941	6.281814	9.177080	9.619722	7.639880	8.674219	6.965163
865128	11.024428	8.456369	7.534720	13.999619	8.471797	8.891647	8.940358
865137	7.881966	4.531979	3.493507	16.522190	3.832178	5.152796	6.446213
86517	6.945315	5.802554	7.446987	10.596976	7.025252	7.521302	5.987602
865423	14.714742	16.419880	19.305932	8.070883	18.094989	16.891878	15.166296
865432	6.729156	4.405066	4.359855	14.283310	5.242444	5.679018	5.648688
865468	9.091881	5.378842	3.509767	16.025836	4.550616	5.857984	5.236772
86561	9.454835	5.159411	1.954211	16.796813	4.082404	5.770320	6.347597
866083	7.976122	4.220712	3.346369	14.798708	3.536330	6.636228	6.318449
866203	9.791047	7.284536	6.648132	12.410455	7.571092	8.529687	7.228489
866458	6.088648	4.481377	6.637872	12.238561	6.300678	5.587692	3.808379
866674	7.625197	7.406603	8.173276	9.801633	8.227546	9.704161	7.671181
866714	7.038408	3.901580	4.238618	15.332106	4.299651	4.069209	5.469936
8670	6.231795	4.206840	5.235275	12.352268	5.012553	6.623398	5.639561
86730502	7.315447	4.619496	4.986634	12.510649	5.361488	7.090450	6.049152
867387	7.964022	4.822187	3.790291	14.384464	5.076312	6.086700	5.605604
867739	8.084911	5.851700	5.993136	12.190752	5.956315	7.869780	6.761277
868202	8.291886	3.299184	2.745693	15.818571	2.226995	4.799572	4.874780
868223	9.116893	4.358405	4.876133	16.423370	4.936860	4.976310	4.954476
868682	8.760064	4.235222	1.972546	16.601438	3.848112	4.931163	5.633499
868826	9.104915	8.179596	10.280673	10.692134	9.560010	8.141560	7.407424
868871	7.878137	4.000627	5.627977	15.582832	5.322475	4.000430	3.964841
868999	9.934361	6.310181	4.417496	18.388488	5.390490	5.298314	7.636407
869104	7.139095	4.599238	5.328745	12.301231	5.303577	6.052491	5.055438
869218	7.817317	2.761641	3.766665	15.944456	3.512128	3.435588	4.465998
869224	7.839825	4.178731	2.473547	15.325993	3.548586	5.019561	5.675931
869254	10.221300	5.584098	2.988527	17.751270	4.355157	4.992102	6.169371
869476	6.493241	5.205093	7.116000	14.746784	6.163169	4.076006	4.993140
869691	8.330979	8.423188	10.030931	12.781817	9.727440	9.025823	8.857817
86973701	8.216610	5.699376	6.231399	13.605463	6.327886	5.736317	4.440294
86973702	6.824974	3.872457	3.799636	14.003093	4.390629	5.566518	4.784701
869931	9.941590	5.940729	2.279331	16.809535	4.792032	6.438786	6.694975
871001501	8.763826	4.816262	5.258017	15.044113	5.710126	5.451464	5.910682

871001502	7.079258	6.896248	9.584469	15.476603	7.727101	7.148129	6.846592
8710441	17.683589	19.399198	21.932427	18.816259	20.864226	19.480697	17.613115
87106	9.073451	4.800862	3.796248	17.049970	4.284164	4.005235	5.921580
8711002	6.975854	3.866310	4.197584	14.478307	3.736836	4.323413	5.151396
8711003	8.254064	3.947779	2.025234	15.865914	3.364182	4.838847	5.310824
8711202	6.865249	6.184598	8.243560	9.596050	7.655478	7.767938	5.552951
8711216	10.506046	6.539564	4.853747	14.881626	6.511119	7.619058	6.578082
871122	8.895799	4.830182	2.622918	17.121658	4.007143	5.035084	6.235748
871149	10.313081	6.067552	3.190746	18.185537	4.582739	5.450301	7.087746
8711561	7.261769	3.431037	5.435594	14.079399	4.637372	3.358521	3.829228
8711803	10.230562	8.754330	9.247158	11.553257	9.377706	9.114071	7.650096
871201	7.494574	8.571751	9.680828	8.301645	9.612654	10.763757	9.110990
8712064	7.210974	2.672602	4.768846	15.197192	3.055515	3.166523	2.841435
8712289	10.007053	9.621132	9.683949	10.402096	9.978072	11.335929	9.629444
8712291	10.361412	5.946696	2.570083	16.849439	4.921923	6.516335	6.825896
87127	9.209241	5.729062	4.472559	17.963768	4.756857	5.118216	6.890851
8712729	8.337873	5.376647	5.403389	12.644869	5.965904	6.764012	5.379118
8712766	7.904039	7.694782	9.213501	9.705357	8.575172	9.461241	7.433253
8712853	8.837303	4.526876	2.857706	15.605395	4.512924	5.733878	5.674286
87139402	8.148053	4.315617	3.938629	15.921428	4.517930	4.605863	5.505489
87163	8.236192	3.972220	3.171464	14.741380	3.409840	5.598818	5.494620
87164	3.868022	5.665580	7.508925	11.084084	7.135806	7.581403	6.608111
871641	9.503033	5.329614	6.205190	17.242829	5.543406	2.819703	4.354235
871642	10.970858	6.312154	4.884090	17.989828	5.737055	4.843618	6.987983
872113	10.192077	6.160077	4.702406	18.689299	5.066000	4.191944	6.957597
872608	9.268126	8.905080	11.442103	15.054639	10.059486	8.033423	6.876974
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868202	2.653637	6.312842	6.002731	7.367650	4.527571	4.495237	4.324336

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868826	9.421175	7.349002	6.268685	8.391344	8.429329	7.394982	7.835554
868871	6.786827	7.643303	3.894937	9.076796	4.274214	5.609249	6.501134
868999	6.789790	8.879922	7.663298	10.784042	3.725182	7.383155	7.539194
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869218	4.666439	7.197811	5.264910	8.461253	3.372065	5.264894	5.259621
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8712064	5.180512	6.089331	3.007194	3.931853	4.464133	8.582975	4.152417	
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8712853	2.142749	4.881733	3.358585	4.028522	2.330067	9.018005	4.403181	
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8712766	7.276947	7.189511	8.884100	9.131357	10.997293	19.411883	10.242947
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87139402	6.387109	3.046853	4.394034	3.998164	9.429542	20.853829	1.714667
87163	5.560594	3.287194	3.561481	4.833268	9.582893	21.167554	4.543648
87164	7.000682	4.529227	7.904084	7.138804	8.960575	18.837277	7.378480
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[ reached getOption("max.print") -- omitted 392 rows ]
```

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

Call:

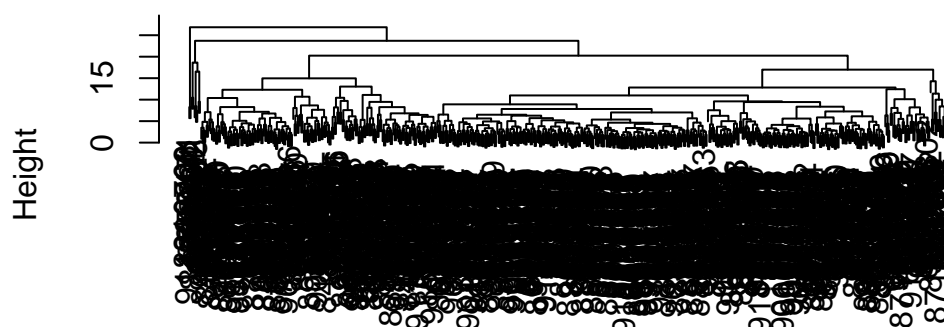
```
hclust(d = data.dist, method = "complete")
```

```
Cluster method   : complete
Distance         : euclidean
Number of objects: 569
```

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

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

Cluster Dendrogram



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

- The clustering model has 4 clusters at height 25

```
wisc.hclust.clusters <- cutree(wisc.hclust, k=4)
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.clusters <- cutree(wisc.hclust, k=5)
table(wisc.hclust.clusters, diagnosis)
```

	diagnosis	
wisc.hclust.clusters	B	M
1	12	165
2	0	5

3	343	40
4	2	0
5	0	2

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

```
wisc.hclust.ward <- hclust(data.dist, method = "ward.D2")
```

- ward.d2 produces my favorite results because the clusters are more evenly spaced and shows the spherical clusters.

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

```
scaled_data <- scale(wisc.data)
wisc.km <- kmeans(scaled_data, centers = 2, nstart = 20)

table(wisc.km$cluster, diagnosis)
```

	diagnosis	
	B	M
1	343	37
2	14	175

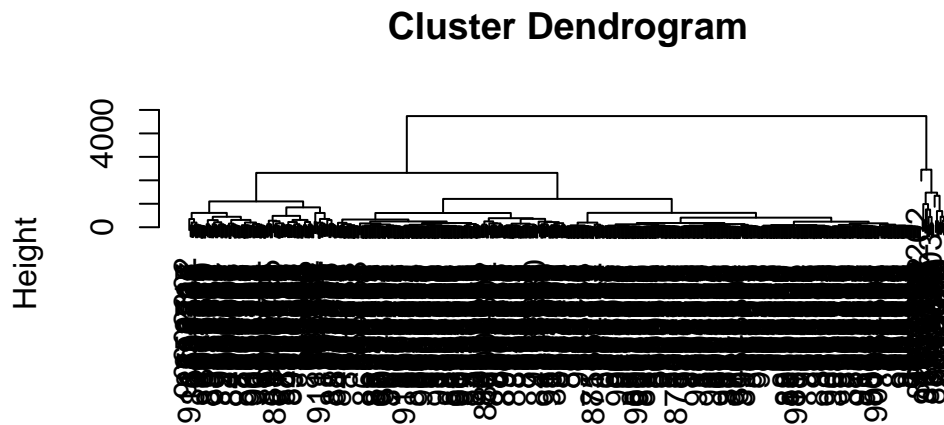
```
table(wisc.hclust.clusters, diagnosis)
```

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

- Based on both results, the k-means results are more defined and accurate than the hclust results which require specificity in cluster groups and more overlap when separating the two diagnoses.

Clustering


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



d
hclust (*, "complete")

```
## Use the distance along the first 7 PCs for clustering i.e. wisc.pr$x[, 1:7]
wisc.pr.hclust <- hclust(dist(wisc.pr$x[,1:7]), method="ward.D2")
```

```
wisc.pr.hclust.clusters <- cutree(wisc.pr.hclust, k=2)
```

Combine PCA and Clustering

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

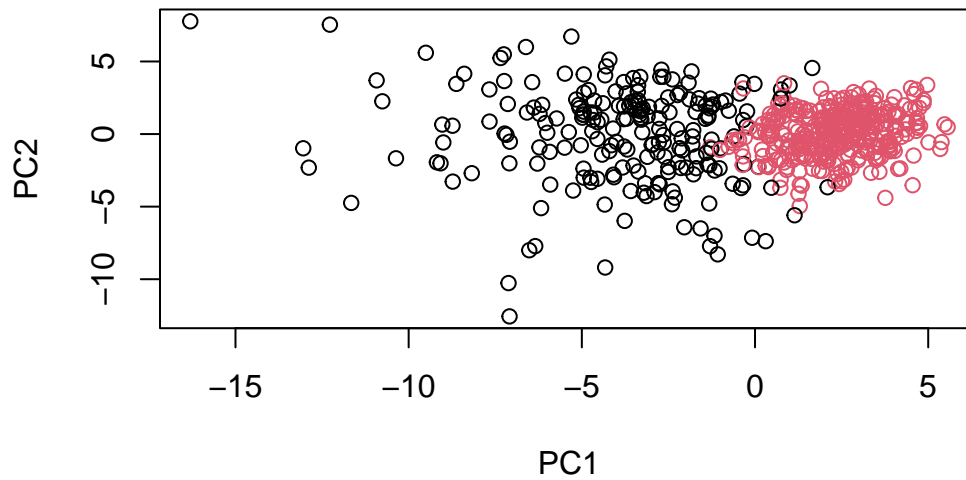
```
grps <- cutree(wisc.pr.hclust, k=2)
table(grps)
```

```
grps
  1  2
216 353
```

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

```
      diagnosis  
grps   B     M  
  1    28  188  
  2   329   24
```

```
plot(wisc.pr$x[,1:2], col=grps)
```



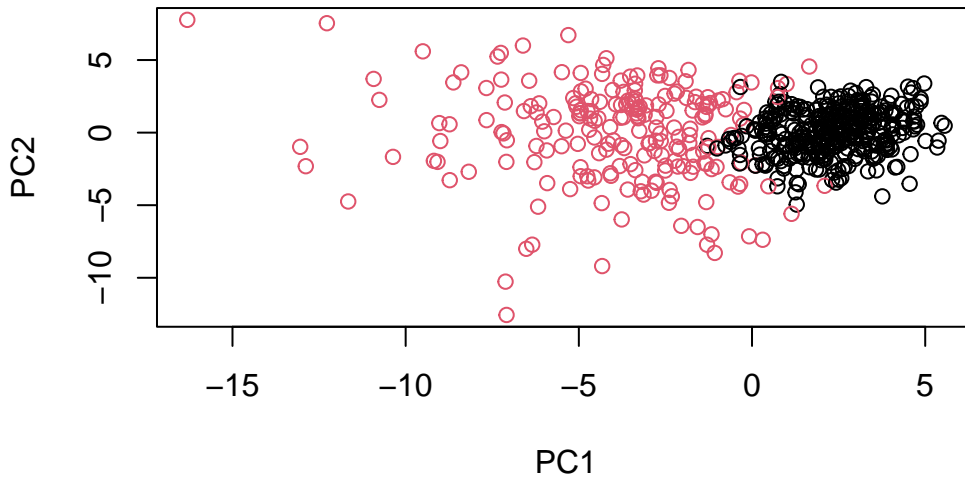
```
g <- as.factor(grps)  
levels(g)
```

```
[1] "1" "2"
```

```
g <- relevel(g,2)  
levels(g)
```

```
[1] "2" "1"
```

```
# Plot using our re-ordered factor
plot(wisc.pr$x[,1:2], col=g)
```



Q15. How well does the newly created model with four clusters separate out the two diagnoses?

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

	diagnosis	
wisc.pr.hclust.clusters	B	M
1	28	188
2	329	24

- Overall, the two diagnoses are separated well, there is some overlap in the benign and malignant diagnoses but not a significant amount.

Q16. How well do the k-means and hierarchical clustering models you created in previous sections (i.e. before PCA) do in terms of separating the diagnoses? Again, use the `table()` function to compare the output of each model (`wisc.km$cluster` and `wisc.hclust.clusters`) with the vector containing the actual diagnoses.

```
table(wisc.km$cluster, diagnosis)
```

```
diagnosis
      B   M
1 343  37
2  14 175
```

```
scaled_data <- scale(wisc.data)
data.dist <- dist(scaled_data)
hclust_model <- hclust(data.dist, method="complete")
wisc.hclust.clusters <- cutree(hclust_model, k =4)
comparison_table <- table(wisc.hclust.clusters, diagnosis)
print(comparison_table)
```

```

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

```

- Overall both the k-means and hclust clustering models separate the two diagnoses well, there is a bit better separation and specificity for the k-means model in terms of overlap for the benign and malignant diagnoses, however there are clearly defined clusters that represent the data.

Q17. Which of your analysis procedures resulted in a clustering model with the best specificity? How about sensitivity?

Sensitivity: $TP/(TP+FN)$ Kmeans: $175/(175+37) = 0.825$ Hclust: $165/(165+47) = 0.778$

Specificity: $TN/(TN+FP)$ Kmeans: $343/(343+14) = 0.961$ Hclust: $343/(343+14) = 0.961$

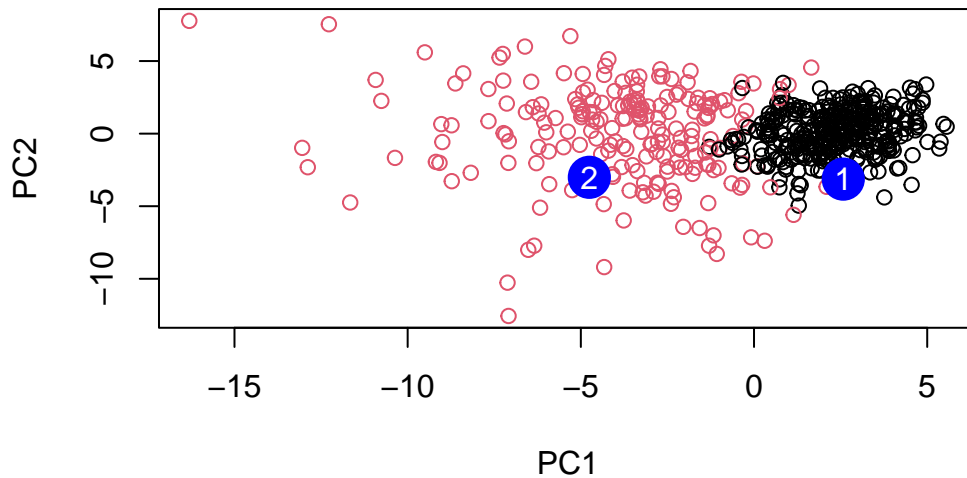
- Hclust and K-means had the best specificity, and K-means had the best sensitivity.

Q18. Which of these new patients should we prioritize for follow up based on your results?

```
#url <- "new_samples.csv"
url <- "https://tinyurl.com/new-samples-CSV"
new <- read.csv(url)
npc <- predict(wisc.pr, newdata=new)
npc
```

	PC1	PC2	PC3	PC4	PC5	PC6	PC7
[1,]	2.576616	-3.135913	1.3990492	-0.7631950	2.781648	-0.8150185	-0.3959098
[2,]	-4.754928	-3.009033	-0.1660946	-0.6052952	-1.140698	-1.2189945	0.8193031
	PC8	PC9	PC10	PC11	PC12	PC13	PC14
[1,]	-0.2307350	0.1029569	-0.9272861	0.3411457	0.375921	0.1610764	1.187882
[2,]	-0.3307423	0.5281896	-0.4855301	0.7173233	-1.185917	0.5893856	0.303029
	PC15	PC16	PC17	PC18	PC19	PC20	
[1,]	0.3216974	-0.1743616	-0.07875393	-0.11207028	-0.08802955	-0.2495216	
[2,]	0.1299153	0.1448061	-0.40509706	0.06565549	0.25591230	-0.4289500	
	PC21	PC22	PC23	PC24	PC25	PC26	
[1,]	0.1228233	0.09358453	0.08347651	0.1223396	0.02124121	0.078884581	
[2,]	-0.1224776	0.01732146	0.06316631	-0.2338618	-0.20755948	-0.009833238	
	PC27	PC28	PC29	PC30			
[1,]	0.220199544	-0.02946023	-0.015620933	0.005269029			
[2,]	-0.001134152	0.09638361	0.002795349	-0.019015820			

```
plot(wisc.pr$x[,1:2], col=g)
points(npc[,1], npc[,2], col="blue", pch=16, cex=3)
text(npc[,1], npc[,2], c(1,2), col="white")
```



- Based on the premise that the red dots are malignant and the black dots are benign, patient 2 should be seen and prioritized since they are within the malignant cluster and

have a higher likelihood that the cancer can/is spreading. There needs to be immediate action to prevent the spread.